



Hampton Roads Bridge-Tunnel



July 2019 Project Report

I-64 HAMPTON ROADS BRIDGE-TUNNEL EXPANSION

Proj. No. 0064-M06-032
Report #4

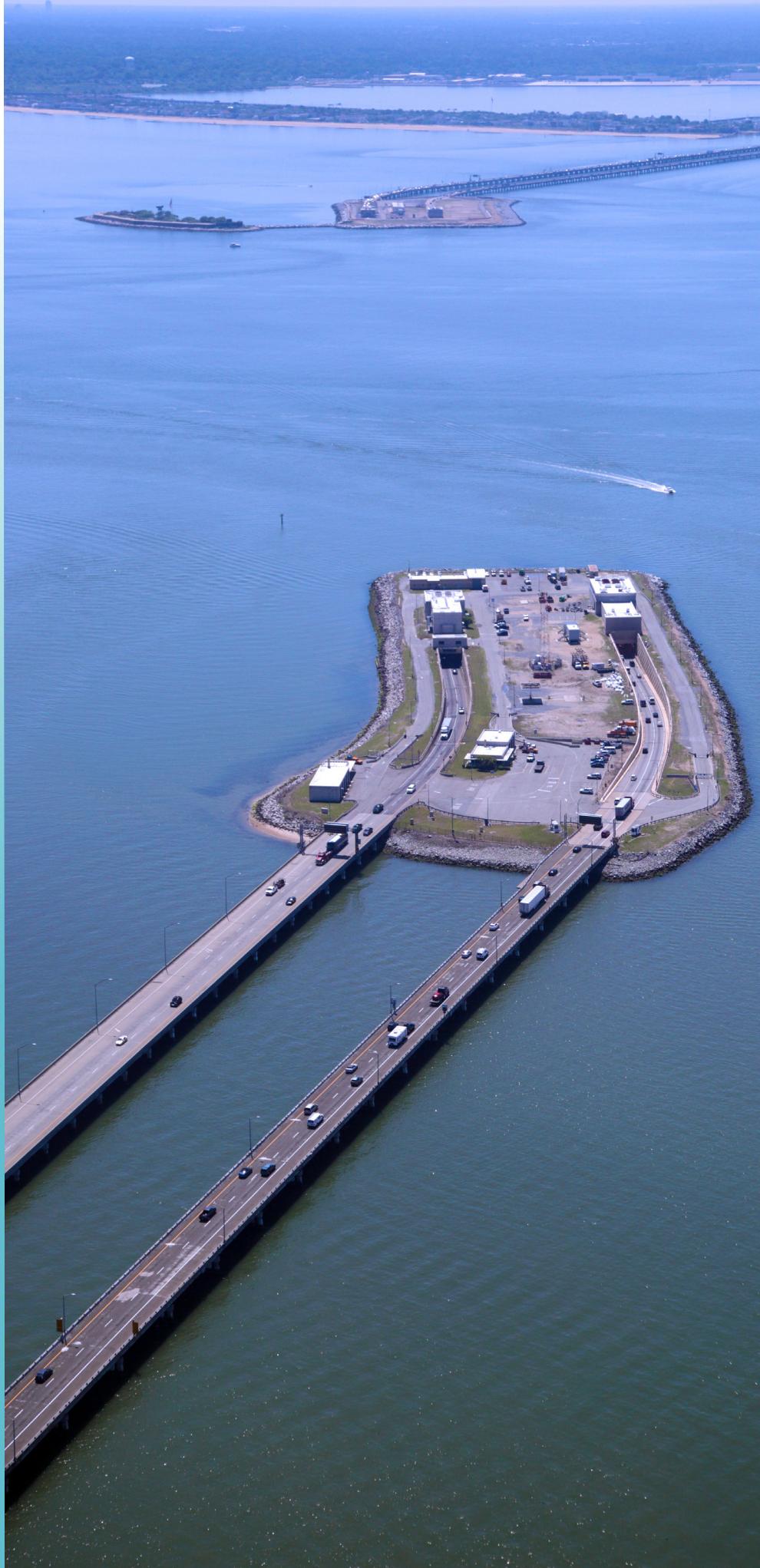


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Issue date: August 26, 2019

1. Executive Summary

1.1 Reporting Period

This report, prepared by the Virginia Department of Transportation (the Department), provides an overview of accomplishments and activities for the Hampton Roads Bridge-Tunnel Expansion project (the Project) from June 23, 2019 – July 20, 2019. The Design-Builder for the Project is Hampton Roads Connector Partners (HRCP), a consortium that includes Dragados, Vinci, Flatiron, and Dodin Campenon Bernard.

The current reporting period is aligned with HRCP's fiscal-month structure, on which the Project's design-build schedule updates and invoiced construction progress are based. Reporting periods close on the Saturday on or preceding the 24th of each month.

1.2 Project Accomplishments

- HRCP continued to address Requests for Information for the Nationwide Permit (NWP6).
- HRCP conducted an agency meeting on June 28, 2019 addressing pile driving methodology and schedule, sound pressure level models, mitigation methods, and Incidental Harassment Authorization (IHA)/Letter of Authorization (LOA) approach. HRCP began a dialogue with National Marine Fisheries Service (NMFS) and Virginia Marine Resources Commission (VMRC) concerning potential impacts to anadromous and marine species.
- HRCP conducted the Joint Permit Application (JPA) pre-application meeting with the agencies on July 10, 2019.
- HRCP drafted and finalized the Habitat Condition Assessment (HCA) methodology.
- HRCP developed a detailed schedule for review of the JPA and the associated appendices.
- HRCP prepared and submitted the draft Water Quality Management Plan to VDOT for review on July 12, 2019.
- HRCP received the Subaqueous Lands Permit from VMRC.

1.3 Priorities

The Department's priorities for the Project are to achieve the following objectives:

- To provide mobility enhancements and travel-time reliability along the Project corridor
- To minimize project impacts on adjacent communities
- To improve transportation operations and safety throughout the Project corridor

- To develop public infrastructure in a financially responsible manner

1.4 Schedule

- Completion of the first Limited Notice to Proceed (LNTP1) is currently scheduled for September 25, 2019.
- The second Limited Notice to Proceed (LNTP2), following submittal of the project's Corps of Engineers, Virginia Department of Environmental Equality (DEQ) and Virginia Marine Resources Commission (VMRC) Permits Applications, is currently scheduled for September 29, 2019.
- Full Notice to Proceed (NTP), following receipt of the project's Corps of Engineers, Virginia DEQ and VMRC permits, is scheduled for October 10, 2020.
- Final completion remains as scheduled for November 1, 2025.
- 3.3% of the contract time has progressed to date.

1.5 Budget and Cost

- Project budget overview (through July 2019 payment application):

Total project budget:	\$3,861,997,227
Total charges for efforts to date:	\$86,610,424
Remaining project budget:	\$3,775,386,803

- Design-build contract overview (through July 2019 payment application):

Total contract amount:	\$3,299,997,227
Total charges for efforts to date:	\$75,949,575.84
Total work orders:	\$0

- Design-build progress to date (through July 2019 payment application):

Overall:	2.3%
Mobilization:	10.8%
General Requirements (incl. Project Management):	1.8%
Design:	12.9%
Physical Progress:	0%

1.6 Environmental Management

During this reporting period HRCP made the following strides towards obtaining environmental clearances covering the supplemental geotechnical work and roadway, bridge, and tunnel construction:

- HRCP provided draft JPA drawings for the Department's review on June 24, 2019.
- HRCP conducted a pile driving – IHA/LOA agency meeting on June 28, 2019.
- HRCP held a monthly regulatory agency meeting on June 28, 2019 to present preliminary information on the project.
- HRCP provided the draft Water Quality Management Plan for the Department's review on July 8, 2019.
- HRCP provided the draft Virginia Pollutant Discharge Elimination System (VPDES) permit for the Department's review on July 9, 2019.
- HRCP held a JPA pre-application meeting with the regulatory agencies on July 10, 2019.
- HRCP provided the draft HCA methodology to the Department for review on July 11, 2019.
- HRCP provided the JPA (review) schedule to the Department for review on July 12, 2019.
- The Department sent a letter of intent to purchase tidal wetland mitigation credits from New Mill Creek Mitigation Bank on July 19, 2019.

1.7 Quality

- HRCP received VDOT approval of the Design Quality Management Plan (DQMP).
- Quality audits were completed on 18 packages as of July 20, 2019.

1.8 Operations

- Shoulder closures were implemented for geotechnical exploration, survey, and utility locating.
- Installation of instrumentation and monitoring began this period to provide a baseline of normal seasonal tunnel movement prior to construction activities.
- Weeknight lane closures were performed in the EB tunnel to facilitate the installation of monitoring equipment on the tunnel and approach walls.

1.9 Safety

- Daily safety meetings are held on site with all staff working on site present.
- All personnel are urged to use caution entering/exiting the islands in live traffic.

1.10 DBE & SWAM Business Activities

- VDOT and HRCP met during this period to establish the DBE/SWaM contracting goal of \$394 million for the HRBT Expansion Project.
- On July 3, Commissioner Stephen Brich, Jim Utterback, Sandra Norman, and Queen Crittendon attended Governor Ralph Northam's signing of Executive Order 35 which establishes goals and programs aimed at expanding opportunities for Virginia's small, women, minority and service disabled veteran-owned businesses.
- The HRBT Civil Rights Workgroup met on July 15, 2019 to discuss DBE/SWaM opportunities as the project progresses.

1.11 Public Outreach

- Members of VDOT's HRBT Expansion Team have participated in more than 50 outreach events to date.
- Of specific note in this period, the following project update was provided:
 - July 18 – Hampton Roads Transit

2. Project Accomplishments

2.1 Overview and Look Ahead

Milestones

The next major project milestone will be the completion of LNTP1 which is currently on track for September 25, 2019.

Project Management Plans

HRCP is currently developing Project Management Plans to support a timely, quality project delivery. The draft DQMP was approved this period. The Risk Management Plan is in development by HRCP.

Geotechnical Investigation

HRCP received approval on the Landside Geotechnical Exploration Plan. Landside drilling in Hampton started and drilling operations and laboratory testing for soil classification are ongoing. The layout of geotechnical boring sites, aerial target layout, and control survey were completed.

Environmental Permitting

Environmental permit coordination continues as discussions with the agencies are occurring weekly and monthly. The next scheduled monthly status meeting is July 28, 2019. Other planned agency meetings include the VPDES preapplication meeting on August 6, 2019, the HCA meeting on August 8, 2019, and the JPA page-turn meeting on August 20, 2019. A pile driving meeting was conducted with the agencies on June 28, 2019. HRCP presented the work plan for in-water pile driving activities, including methods, sound pressure level model, IHA/LOA approach, and mitigation methods. A pre-application meeting with relevant permit agencies was conducted on July 10, 2019 where HRCP presented the overall project and the full range of temporary and permanent environmental impacts estimated for the project. The pre-application meeting included the USACE, VDOT, VDEQ, VMRC, the Virginia Institute of Marine Science (VIMS), and NMFS. HRCP has completed drafts of several components of the JPA for which VDOT has provided review and comments. Revisions of those documents are currently underway. Each week, HRCP plans to submit to the Department an updated JPA schedule that details anticipated dates for the submittal of the draft of each component of the application and for other key tasks related to the JPA process.

Third Party Coordination

Post-award coordination with the U.S. Navy and the Federal Highway Administration (FHWA) started in April and is ongoing. Recognizing the importance of timely, appropriate coordination, HRCP is working to hire a “Navy Coordinator” in continuing to work through access and coordination matters. FHWA participates in weekly coordination meetings with VDOT and HRCP.

3. Project Schedule

3.1 Schedule Status

Baseline Schedule

The Baseline Schedule has been received from HRCP and is in the process of refinement. The current longest path for the project remains through the boring of the two new tunnels beginning with the design, permitting, and construction of the South Island Portal.

Permitting Schedule

The Project's Corps of Engineers, Virginia DEQ and VMRC permits will include multiple administrative documents, including the Coastal Zone Management (CZM) consistency determination, the USACE Section 404/10 permit, USACE Section 408 Coordination Letter, the VDEQ water protection permit, and the VMRC subaqueous land permit.

HRCP provided a comprehensive permitting schedule detailing the preparation, quality review, submission, and permitting processes for the above-referenced actions. A pre-application consultation with all the concerned agencies was conducted on July 10, 2019, while the full project's Corps of Engineers, Virginia DEQ and VMRC joint permit package is to be submitted on August 30, 2019.

HRCP's goal is to obtain the project permits from the Corps of Engineers, Virginia DEQ and VMRC agencies in Spring 2020. As part of this process, the project is scheduled to be ready for USACE Public Notice in September 2019.

Key Dates

The following table depicts key milestone dates outlined in the contract requirements. HRCP's submitted Baseline Schedule reflects the early stages of HRCP's planning sequence and will be substantially refined and further detailed as the design advances. This table will be updated to reflect these dates and used as a benchmark to track milestone achievements.

Key Dates	Contract Requirement	HRCP Preliminary Baseline Schedule	HRCP Baseline Schedule	Actual
LNTP1		April 12, 2019	April 12, 2019	April 12, 2019
LNTP2		September 29, 2019	September 29, 2019	
LNTP3		October 23, 2019	October 9, 2019	
NTP		October 10, 2020	October 10, 2020	
Substantial Completion	September 1, 2025	June 27, 2025	July 16, 2025	
Final Completion	November 1, 2025	November 1, 2025	November 1, 2025	

3.2 Longest Path

The longest-path activities for the Project schedule include:

- Construction of the South Island launching pit for the Tunnel Boring Machine (TBM)
- Design of South Portal
- Bored tunnel design
- TBM mining of the new tunnel
- Finishes in the tunnels
- Commissioning and integration tests for the tunnel

3.3 Impact Analysis

Several elements of work are near-critical and could affect Project progress if they are not addressed diligently. The Department and HRCP are closely monitoring these activities. The following work elements have been identified as near critical with less than one month of float:

- JPA Process

- Design and construction of permit-dependent structures at Oastes Creek and Bay Avenue
- Spaceproofing report for the TBM
- Manufacturing tunnel segments

Achieving the public-notice milestone for the project's joint permit application will allow LNTP2 and LNTP3 to be issued. LNTP2 enables procurement of the TBM, while LNTP3 allows commencement of construction work for the launching pit and ground improvement on South Island. Receipt of the project's Corps of Engineers, Virginia DEQ and VMRC permits will allow full NTP for the Project.

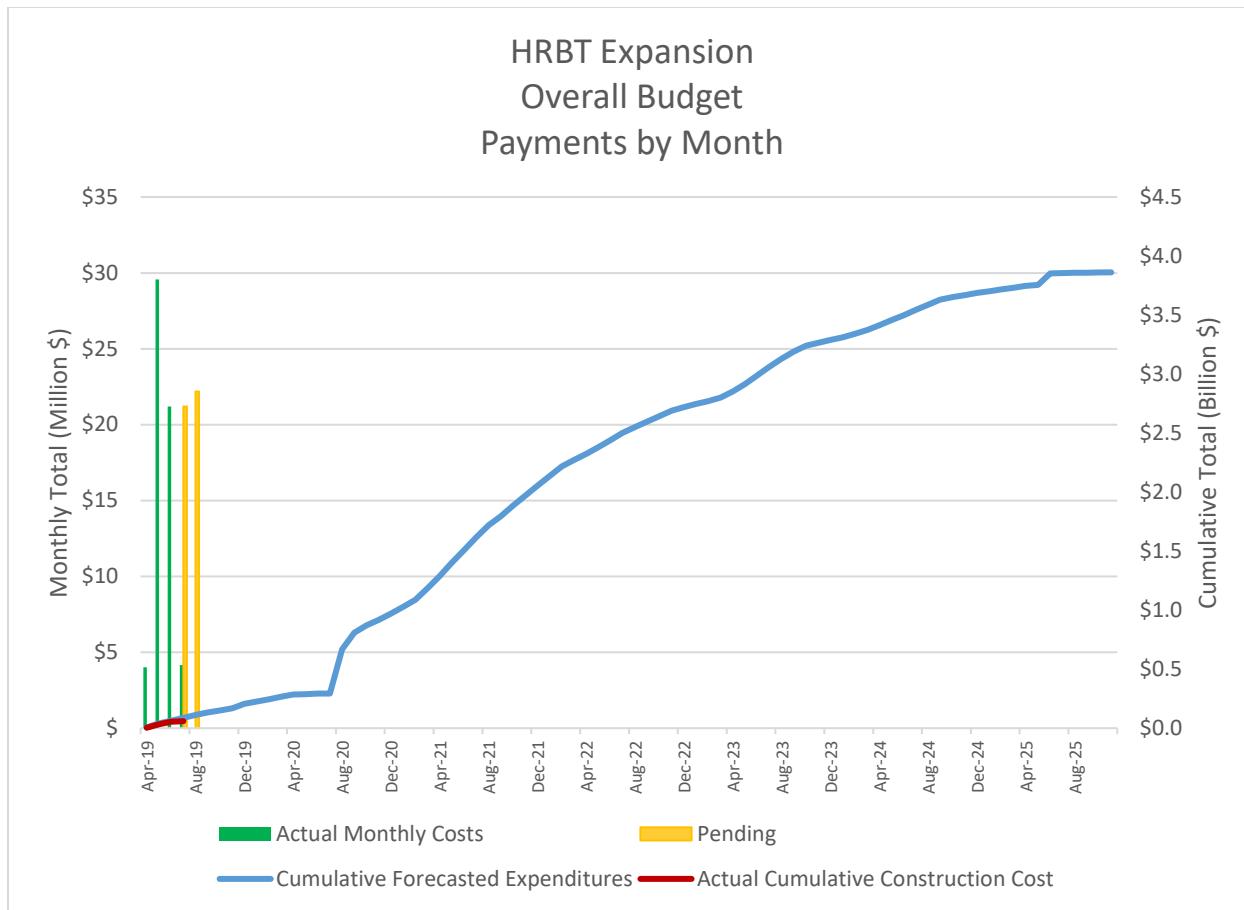
4. Budget and Cost

4.1 Overall Budget

The overall budget outlined in this report is based on the terms and conditions of Article 3 (Project Funding) in the Project Agreement for Funding and Administration (PAFA). The cost curve is based on Exhibit 6 of the CA (monthly maximum cumulative compensation amount).

Amounts this period reflect payouts for Construction, Engineering Administration, Right of Way, and Contingency between June 23, 2019 and July 20, 2019. In conformance with Section 3.03(b)(vi) of the PAFA, a proposal payment of \$4,000,000 was made to Fluor on behalf of Hampton Roads Capacity Constructors as the unsuccessful offeror.

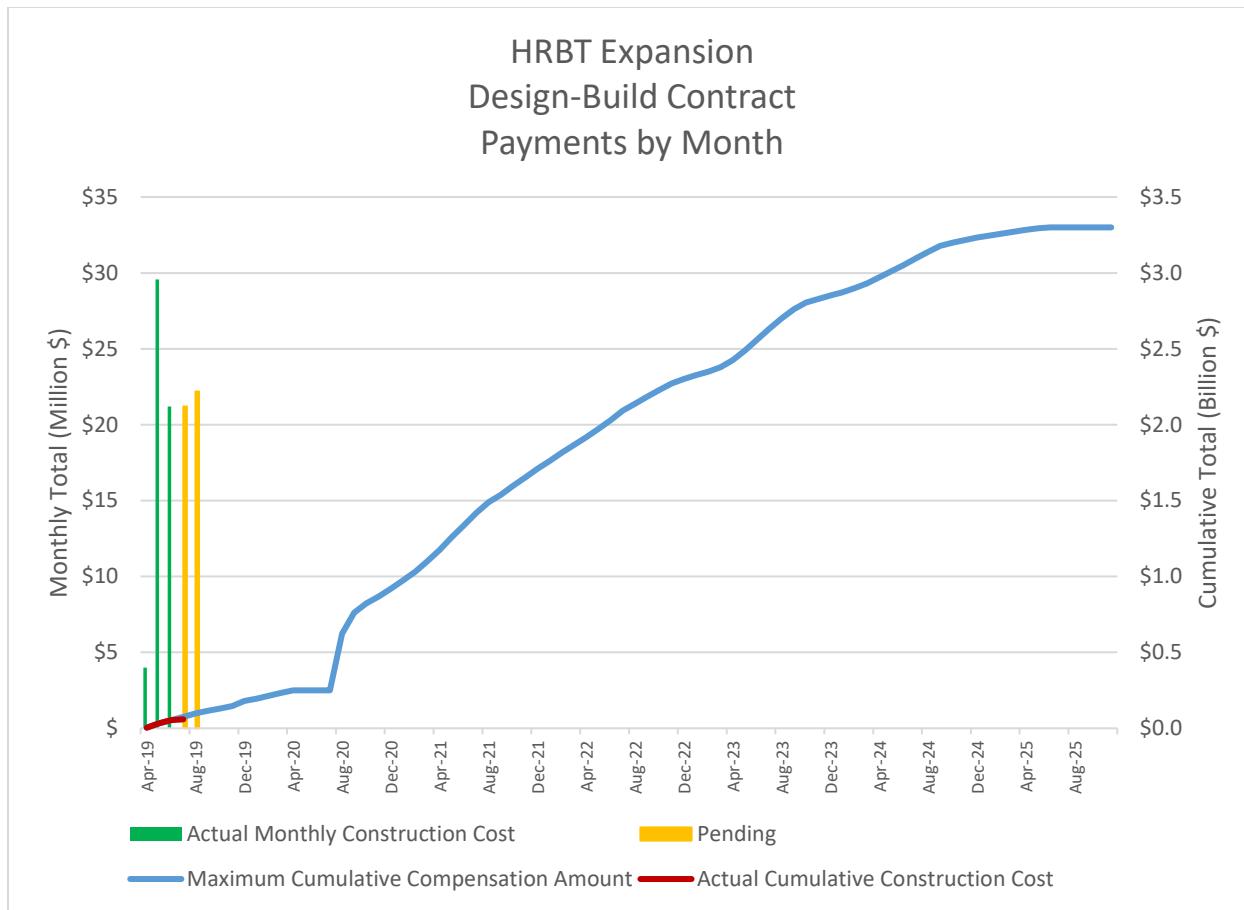
	Amount this period:	Total to Date:	Total Budget:	Total Remaining Budget:	Percent Spent To-date:
<u>Comprehensive Agreement</u>					
Construction	\$0	\$54,756,989	\$3,299,997,227	\$3,245,240,238	1.66%
Owner Costs					
Administration	\$149,672	\$149,672	\$122,000,000	\$121,850,328	0.12%
Right of Way	\$0	\$0	\$15,000,000	\$15,000,000	0.00%
No-Excuses Incentive	\$0	\$0	\$90,000,000	\$90,000,000	0.00%
Contingency	\$4,000,000	\$4,000,000	\$335,000,000	\$331,000,000	1.19%
Total	\$4,149,672	\$58,906,661	\$3,861,997,227	\$3,803,090,566	1.53%



4.2 Design-Build Cost Status

The construction budget and planned cost have been established based on the maximum cumulative compensation amount. For this period, the following tasks are associated with the invoiced expenditures (actual construction cost):

- Project management
- Design surveys
- Environmental permitting
- Geotechnical investigation
- Design work for permitting



4.3 Budget by Funding Source

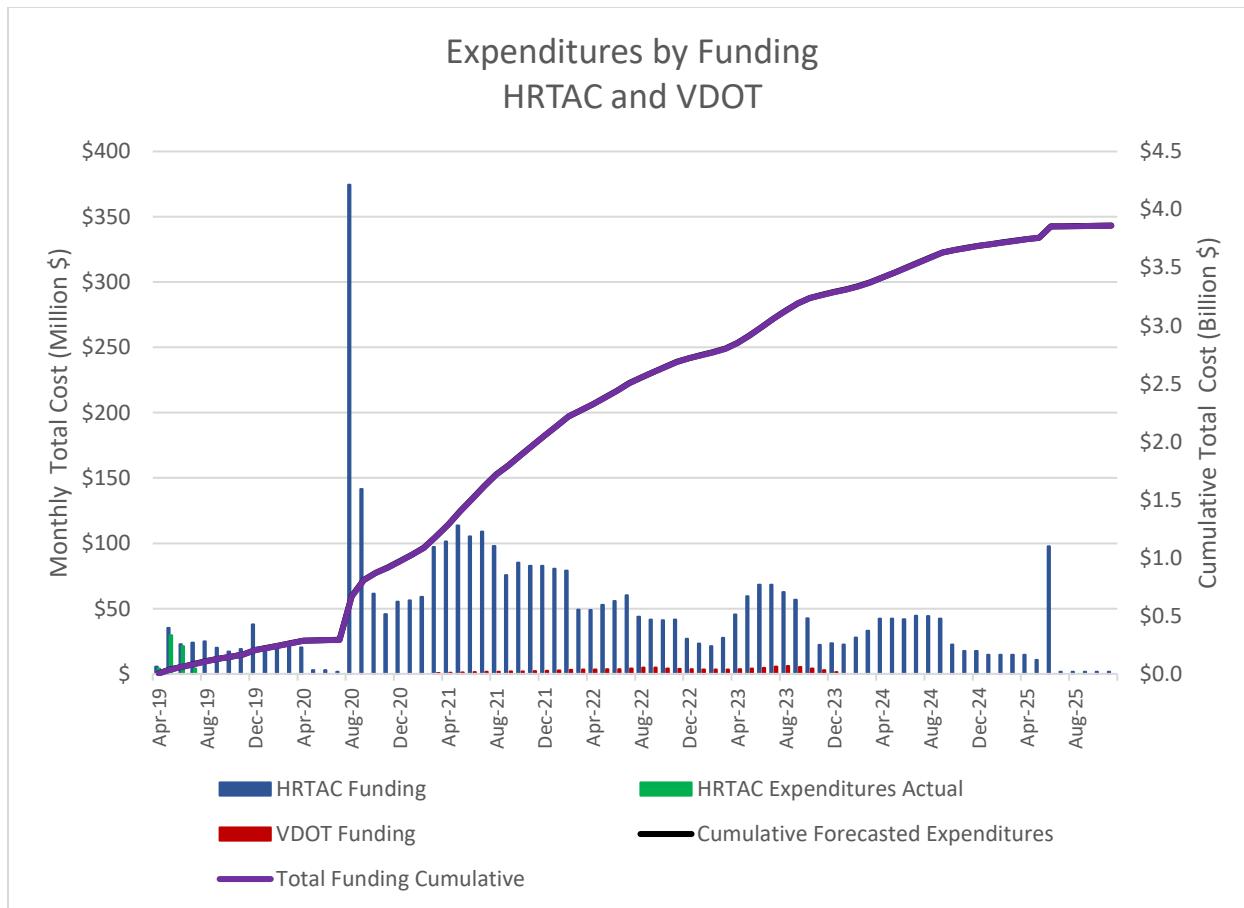
The budget for expenditures by funding source is based on the terms and conditions of Article 3 (Project Funding) and Exhibit 5 of the PAFA. This section outlines planned expenditures by both HRTAC and VDOT. The cost curve has been developed based on the monthly maximum cumulative compensation amount in the CA and will be updated as HRCP refines its design, construction means-and-methods, activity sequences, and project resourcing.

4.3.1 HRTAC and Smart Scale

	Amount this period:	Total to Date:	Total Budget Including Smart Scale:	Total Remaining Budget:	Percent Spent To-date:
Comprehensive Agreement					
Construction	\$0	\$54,756,989	\$3,204,569,251	\$3,149,812,262	1.71%
Owner Costs					
Administration	\$149,672	\$149,672	\$118,472,054	\$118,322,382	0.13%
Right of Way	\$0	\$0	\$15,000,000	\$15,000,000	0.00%
No-Excuses Incentive	\$0	\$0	\$90,000,000	\$90,000,000	0.00%
Contingency	\$4,000,000	\$4,000,000	\$325,428,276	\$321,428,276	1.23%
Total	\$4,149,672	\$58,906,661	\$3,753,469,581	\$3,694,562,920	1.57%

4.3.2 VDOT

	Amount this period:	Total to Date:	Total Budget:	Total Remaining Budget:	Percent Spent To-date:
Comprehensive Agreement					
Construction	\$0	\$0	\$95,427,976	\$95,427,976	0.00%
Owner Costs					
Administration	\$0	\$0	\$3,527,946	\$3,527,946	0.00%
Right of Way	\$0	\$0	\$0	\$0	0.00%
No-Excuses Incentive	\$0	\$0	\$0	\$0	0.00%
Contingency	\$0	\$0	\$9,571,724	\$9,571,724	0.00%
Total	\$0	\$0	\$108,527,646	\$108,527,646	0.00%



4.4 Contingency

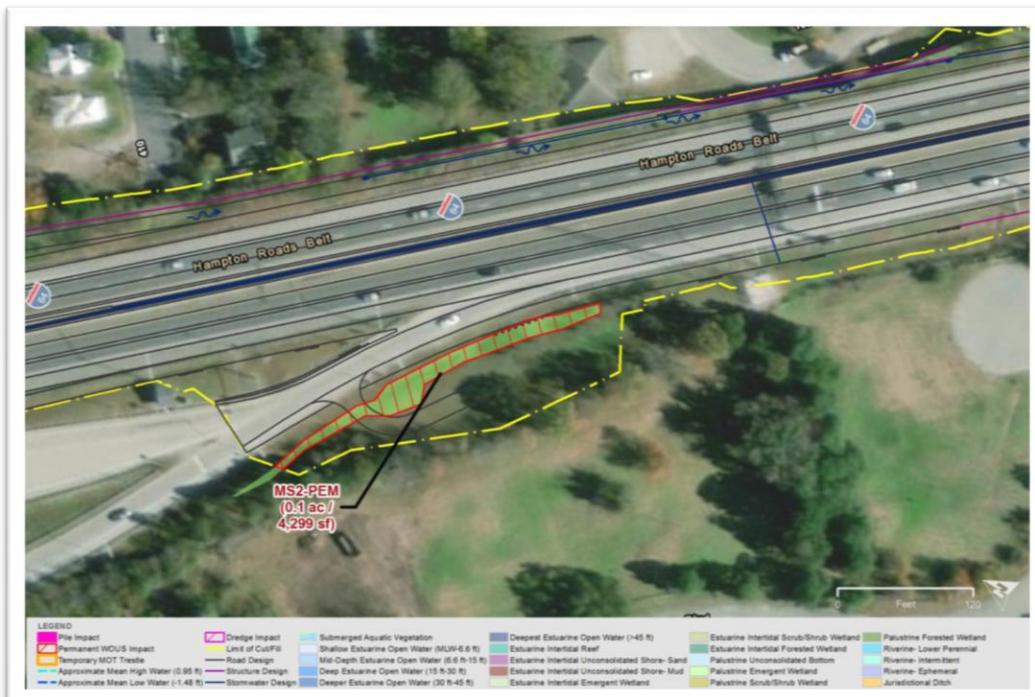
- 0 work orders to date
- \$0 material price adjustments (asphalt, steel, & fuel) to date

5. Environmental Management

During the previous period, HRCP submitted an application for the project's Corps of Engineers, Virginia DEQ and VMRC permits on May 28, 2019 for the supplemental marine geotechnical exploration program. The Corps of Engineers continues to review of this application with the intent to provide Section 408 approval and authorization of the exploratory work under Nationwide Permit 6 (Survey Activities). The VMRC Subaqueous Lands permit has been issued.

Other accomplishments included holding the monthly regulatory agency meeting to present preliminary information on the project. The goal of these monthly meetings is to identify key issues raised by the regulatory agencies, which can then become a focal point for HRCP during the upcoming months as they prepare the project's primary Corps of Engineers, Virginia DEQ and VMRC permits covering the roadway, bridge, and tunnel construction elements. HRCP continues to develop their methodology for assessing existing habitat conditions, especially those around the North and South Islands since the majority of the project's marine impacts will be located in these areas.

HRCP conducted an agency meeting concerning pile driving, sound pressure levels, and marine mammal populations, on June 28, 2019. HRCP sought input from the agencies on the sound propagation model and planned approach to obtaining an IHA and LOA. On July 10, 2019, HRCP also conducted a JPA pre-application meeting with the various agencies that will be approving or commenting on the permit application. During the meeting HRCP provided details concerning wetland and subaqueous impacts, dredging, and HCA.



6. Operations

Field activities continued this period to support scope validation efforts. Shoulder closures were performed for geotechnical exploration, survey, and utility locating.

Installation of instrumentation on existing structures began this period to provide a baseline for monitoring normal tunnel conditions prior to the commencement of construction activities. The existing EB tunnel and buildings on the islands are being monitored as part of the initial baseline. This work required the first lane closures for the project. Weeknight lane closures were performed in the EB tunnel to facilitate the installation of monitoring equipment on the tunnel and approach walls.

A weekly coordination call with the Hampton Roads Harbor Tunnels (HRHT) Facility Manager, who is responsible for operations at the HRBT, was established in order to communicate ongoing project work as well as coordinate upcoming planned work at the facility.

The weekly coordination meeting between VDOT and HRCP continues in order to provide a lookahead of upcoming field activities and ensure concurrent activities are properly coordinated. All field work and traffic impacts are being reported through VDOT's Lane Closure Advisory Management System (LCAMS), which provides a method to coordinate traffic operations across the region.



7. DBE & SWaM Business Activities

VDOT and HRCP met during this period to establish the DBE/SWaM contracting goal of \$394 million for the HRBT Expansion Project. The team reviewed potential opportunities and work items specific to the scope of the project.

HRCP submitted the DBE/SWaM Utilization Plan detailing its methods for meeting and exceeding the 12% DBE and 20% SWaM participation goals. The plan also included reporting requirements and procedures that document on-going participation, schedules, subcontracts, change orders, and vendor payments. The quarterly plan also outlines HRCP's procedures for ensuring compliance with Equal Opportunity and Affirmative Action requirements for the Design-Builder and its subcontractors.

On July 3, Commissioner Stephen Brich, Jim Utterback, Sandra Norman, and Queen Crittendon attended Governor Ralph Northam's signing of Executive Order 35, which establishes goals and programs aimed at expanding opportunities for Virginia's small, women, minority and service disabled veteran-owned businesses. The HRBT Expansion Project was highlighted for the impact it will have on economic development in the region. Deputy Secretary of Administration Grindly Johnson also supported the event.



The HRBT Civil Rights Workgroup met on July 15 to discuss DBE/SWaM opportunities as the project progresses, required document submittals, and other upcoming small business networking events in the region.

VDOT and HRCP continued to meet with small businesses one-on-one to discuss business opportunities and to assist firms in navigating the DBE/SWaM certification process and prequalification requirements.

VDOT and HRCP began to disseminate registration information for the DBE/SWaM Outreach Event scheduled for September 11 at the Hampton Convention Center. Attendees will learn more about the project and opportunities available, meet key project decision makers, and network with other project stakeholders and HRCP community partners.



BE A PART OF VIRGINIA'S LARGEST TRANSPORTATION PROJECT

A DBE/SWaM Opportunity Event • Wednesday, September 11, 2019 • 8:00 AM - 12:00 PM
Hampton Roads Convention Center - 1610 Coliseum Drive, Hampton, VA 23666

Learn About the Governor's Commitment to DBE/SWaM Inclusion

Governor Ralph Northam

Governor Northam recently signed Executive Order 35 to advance equity for Virginia's Small, Women, Minority, and Service Disabled Veteran-owned businesses. The order establishes a 42% target for state procurement contracting and further defines Virginia's commitment to the small business community.

Before he was inaugurated as the 73rd Governor of the Commonwealth of Virginia, Governor Northam served as an Army doctor, pediatric neurologist, business owner, state Senator and Lieutenant Governor.

Shannon Valentine
Secretary of Transportation

Stephen Brich
Commissioner, VDOT

WHAT YOU WILL LEARN

- Learn about more than \$500 million in subcontract opportunities
- Meet with key project decision makers
- Find out about upcoming opportunities to participate
- Explore opportunities from other key project stakeholders and HRCP's community partners

REGISTER HERE

Registration is free but space is limited. For questions, contact Malcolm Kates 757.439.7166 - mkates@hrcpv.com

Hampton Roads Connector Partners is a construction joint venture of Dragados, VINCI Construction, Flatiron Constructors and Dodkin Campenon Bernard

WHO SHOULD ATTEND

- Virginia Certified DBE & SWaM Firms
- Minority & Women Business Owners
- Construction Professionals
- Architects & Engineers
- IT & Professional Service Firms

Hampton Roads Connector Partners is an Equal Opportunity Employer

8. Public Outreach

HRBT Project Director Jim Utterback, Deputy Project Director Pete Reilly and Communications Manager Paula Miller met with Hampton Roads Transit officials on July 18, 2019 to discuss possible public transit opportunities for motorists while work on the HRBT Expansion project is underway. The meeting came at the request of HRT and was attended by HRT CEO William Harrell, Chief of Staff Brian Smith, and Chief Planning and Development Officer Ray Amoruso. HRT officials received input on key employers in the work corridor who may benefit from mass transit coordination for employees. VDOT will coordinate future public outreach with traffic management programs like TRAFFIX, which aims to reduce the number of commuting vehicles on roadways.



9. Project Media

HRBT Expansion Project Director Jim Utterback was a guest on Hampton City Channel 47 on July 18, 2019. Robin McCormick, Communications Strategist for the city, interviewed Utterback for her program, "Round Robin," which explores topics of interest to Hampton residents. McCormick says potential traffic impacts and lane closures are of paramount concern to Hampton residents. The segment will air as part of daily programming on Channel 47 and will be featured on the city's YouTube playlist. Utterback told McCormick that project officials are willing to appear on the show throughout the life of the project to provide project updates to be shared with the city and its citizens.