I-64 Capacity Improvements – Segment III Design-Build Project Contract ID Number: C00106689DB97

Submitted by: Skanska USA Civil Southeast Inc.

Volume I - Technical Proposal

September 14, 2017



ATTACHMENT 4.0.1.1 - ADDENDUM NO. 2

I-64 CAPACITY IMPROVEMENTS – SEGMENT III

VDOT PROJECT NO.: 0064-965-229

TECHNICAL PROPOSAL CHECKLIST AND CONTENTS

Offerors shall furnish a copy of this Technical Proposal Checklist, with the page references added, with the Technical Proposal.

Technical Proposal Component	Form (if any)	RFP Part 1 Cross Reference	Included within page limit?	Technical Proposal Page Reference
Technical Proposal Checklist and Contents	Attachment 4.0.1.1	Section 4.0.1.1	no	N/A
Acknowledgement of RFP, Revisions, and/or Addenda	Attachment 3.6 (Form C-78-RFP)	Sections 3.6, 4.0.1.1	no	N/A
Letter of Submittal	NA	Sections 4.1		
Letter of Submittal on Offeror's letterhead	NA	Section 4.1.1	yes	1
Offeror's official representative information	NA	Section 4.1.1	yes	1
Authorized representative's original signature	NA	Section 4.1.1	yes	1
Declaration of intent	NA	Section 4.1.2	yes	1
120 day declaration	NA	Section 4.1.3	yes	4
Principal Officer information	NA	Section 4.1.5	yes	1
Final Completion Date	NA	Section 4.1.6	yes	1
Provide any Unique Milestone Dates	NA	Section 4.1.7	<u>yes</u>	1
Proposal Payment Agreement or Waiver of Proposal Payment	Attachment 9.3.1 or 9.3.2	Section 4.1.78	no	N/A
Certification Regarding Debarment Forms	Attachment 11.8.6(a) Attachment 11.8.6(b)	Section 4.1.89	no	N/A
Written statement of percent DBE participation	NA	Section 4.1.10	<u>yes</u>	1

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Offeror's Qualifications	NA	Section 4.2			
Confirmation that the information provided in the SOQ submittal remains true and accurate or indicates that any requested changes were previously approved by VDOT.	NA	Section 4.2.1	yes	2	
Design Concept	NA	Section 4.3			
-					
Conceptual Roadway Plans and description	NA	Section 4.3.1.1	yes	5	
Conceptual Structural Plans and description	NA	Section 4.3.1.2	yes	9	
Project Approach	NA	Section 4.4			
Environmental Management	NA	Section 4.4.1	yes	18	
Hydraulics	NA	Section 4.4.2	yes	21	
Geotechnical	NA	Section 4.4.3	yes	25	
Quality Assurance/ Quality Control (QA/QC)	NA	Section 4.4.4	yes	27	
Construction of Project	NA	Section 4.5			
Sequence of Construction	NA	Section 4.5.1	yes	34	
Transportation Management Plan	NA	Section 4.5.2	yes	48	

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Disadvantaged Business Enterprises (DBE)	NA	Section 4.6		
	NA	Section 4.6	yes	
	NA	Section 4.6	yes	
Proposal Schedule	NA	Section 4.7		
Proposal Schedule	NA	Section 4.7	no	S-16
Proposal Schedule Narrative	NA	Section 4.7	no	<u> </u>
Proposal Schedule in electronic format (CD-ROM)	NA	Section 4.7	no	N/A

4.1 Letter of Submittal

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September 14, 2017

Commonwealth of Virginia Department of Transportation (VDOT) 1401 E. Broad Street Richmond, Virginia 23219 Attention: Joseph A. Clarke, P.E. (APD Division) 295 Bendix Rd., Suite 400 Virginia Beach, VA 23452 757.421.4140 phone www.usa.skanska.com

Re: I-64 Capacity Improvements - Segment III; Contract ID #C00106689DB97

Dear Mr. Clarke,

The Skanska Team appreciates the opportunity to submit a technical proposal for the I-64 Capacity Improvements - Segment III (the Project). The Skanska Team, consisting of Skanska USA Civil Southeast Inc. and WSP USA Inc., understands the importance of delivering increased capacity, bringing portions of I-64 up to current design standards, providing more lanes for evacuation and improving safety by reducing congestion and improving vehicular level of service in York County. Our Team has carefully developed technical solutions to address the complex and environmentally sensitive design and construction challenges of the Project.

4.1.2: Declaration of Intent to Enter Into a Contract: If selected, we intend to enter into a contract with VDOT for the Project in accordance with the terms of this RFP.

4.1.3: Pursuant to Part 1, Section 8.2: Our offer as represented by the submitted Technical and Price Proposals will remain in full force and effect for one hundred twenty (120) days after today's date of September 14, 2017.

4.1.4: Offeror's Point of Contact: Curtis Rowden, Pursuit Manager 295 Bendix Rd., Suite 400 Virginia Beach, VA 23452 Office: 757.578.4144 / Fax: 757.424.4089 Email: curtis.rowden@skanska.com

4.1.6: Final Completion Date: 09/23/2021

4.1.7: Unique Milestone Dates: None

4.1.5: Principal Officer Information:

Salvatore Taddeo, Executive Vice President 295 Bendix Rd., Suite 400 Virginia Beach, VA 23452 Office: 757.578.4141 / Fax: 757.424.4089 Email: salvatore.taddeo@skanska.com

4.1.8: Proposal Payment Agreement: Please refer to the Appendix for the executed Proposal Payment Agreement form Attachment 9.3.1.

4.1.9: Debarment Forms: Please refer to the Appendix for the Certification Regarding Debarment Forms as set forth in Section 11.8.6(a) and 11.8.6(b).

4.1.10 DBE Participation: The Skanska Team is committed to achieving the 12 percent (12%) DBE participation goal for the entire value of the contract.

Our Team has enjoyed working with VDOT in the past and throughout this procurement process, and we look forward to continuing our positive working relationship with you during the implementation phase of this important project.

Sincerely,

Salvatore Taddeo Executive Vice President Skanska USA Civil Southeast Inc.

Virginia Department of Transportation - 1-64 Capacity Improvements - Segment III Page 1

4.2 Offeror's Qualifications



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4.2

Offeror's Qualifications / Confirmation of SOQ

In accordance with Part 1 of the RFP, 4.2.1, the Skanska Team confirms that the information contained in our SOQ remains true and accurate, with three exceptions since its submission, as listed in Table 4.2.1.

Table 4.2.1: Approved Changes to Organizational Chart

Position	SOQ	Proposed
Noise Analysis and Mitigation	Ray Magsonac	Chris Menge
Lead QA Inspector (Roadway)	Mac McGuigan	Todd King
Lead QA Inspector (Structures)	Todd King	Kenny Scott

We have updated our organizational chart to reflect these changes, which have been approved by VDOT.

As required in the RFP Section 4.2.1, our QA manager (QAM) will be assigned fulltime throughout the construction phase. Some relationships on our organizational chart have been clarified to more accurately convey our team's reporting and communication, as well as to address comments by VDOT on our SOQ:

- Design manager (DM), construction manager (CM) and design-build coordinator (DBC) report to the responsible charge engineer (RCE) with clear lines of communication between all.
- QC manager (QCM) reports to the CM.
- Deleted direct report between VDOT and third party stakeholders.
- Added detail to lists of third party stakeholders.

- QAM reports to the design-build project manager (DBPM), and has a direct line of communication to the RCE and, therefore, all others under the RCE.
- Lead utility coordination manager (UCM) reports to the RCE and therefore has lines of communication to all others under the RCE.
- Clarified QA inspection reporting lines.
- Added line of communication from safety manager and RCE and, therefore, to all others under the RCE.

4.2.1: Functional Relationships and Lines of Communication among Key Management

We will use established reporting relationships to provide a formal yet transparent communication network. However, on-time execution of this Project will require a strong and collaborative communication environment. As stakeholder coordination is a key component of success, our Project professionals understand the importance of communicating effectively with stakeholders. We strive to listen and understand the needs of all parties involved and we collaborate to bring together a variety of viewpoints to arrive at the best solution. We understand when compromise is the most appropriate solution, and we work to find a solution acceptable to all parties, especially when the cost of conflict is higher than the cost of losing ground on an early completion deadline.

The Skanska Team and our named subconsultants have collaboratively developed an approach to this project and built trust at all levels of our organizations, allowing us to overcome issues quickly and effectively. This was a cornerstone of our success on the award-winning I-264 Widening/MLK Extension Project in Portsmouth, VA. Our project communication plan will outline proactive partnering at all levels, and will include input from VDOT.

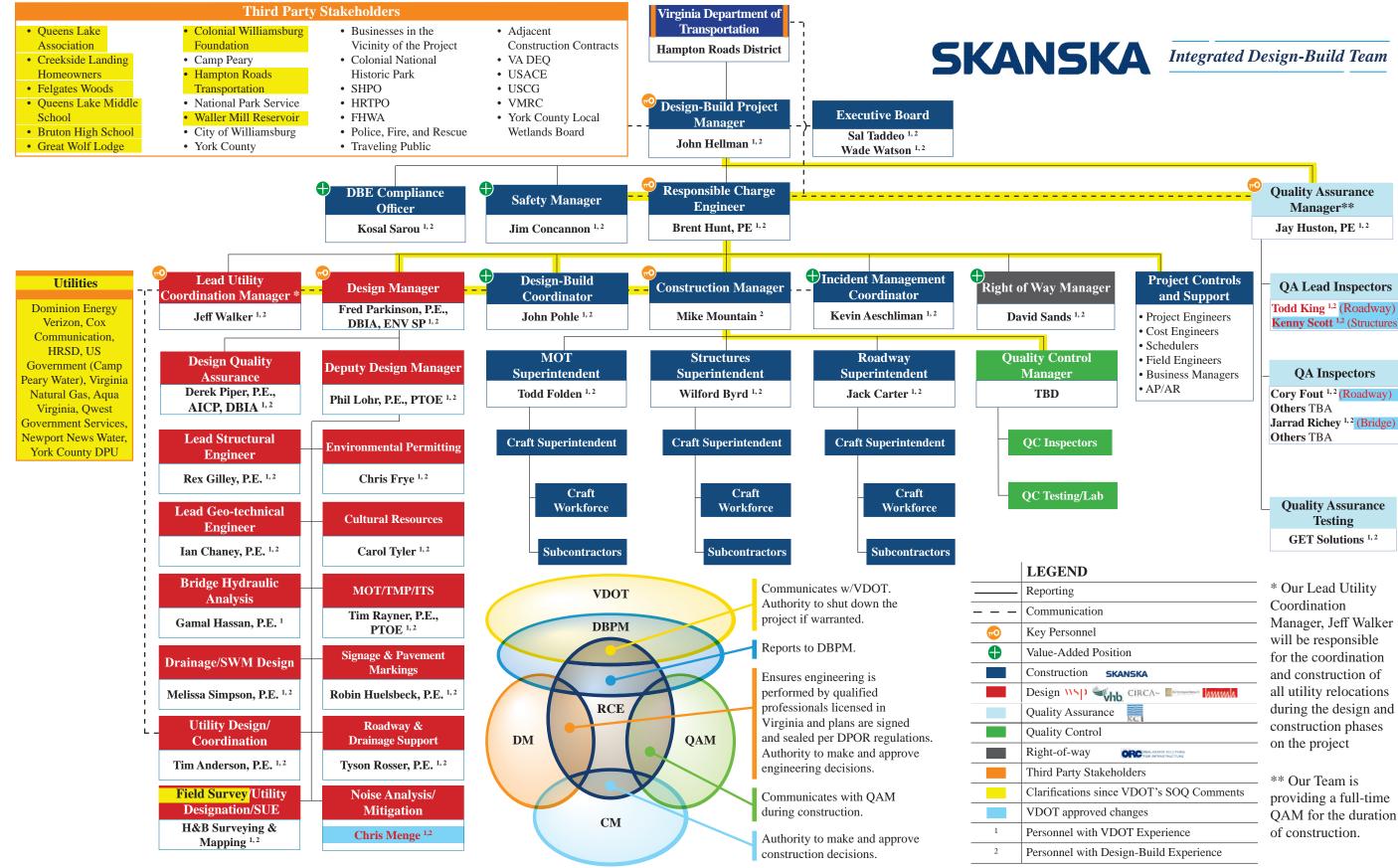


Figure 4.2.1: Organizational Chart

Virginia Department of Transportation -I-64 Capacity Improvements, Segment III – 4.2. Offerors Oualifications

4.3 Design Concept





Table 4.3.1: Concepts and Benefits

Concept	Benefits
Conceptual Structural Plan	
 Shift Queens Creek eastbound bridge 25 feet south 	 Improves public acceptance by reducing overall wetland impacts Reduces VDOT long term maintenance with wider median for better access Reduces impacts to traffic during construction
 Use of micropiles at the Colonial Parkway Bridges 	 Improved maintenance of existing structure by strategic placement of micropiles in close proximity of existing piles Higher degree of public acceptance by reducing footprint, disturbance, and noise impacts Reduces impacts to National Park Service (NPS) property and patrons
Conceptual Roadway Plans	
• 50 percent reduction in the number of SWM facilities, and associated ROW acquisitions	 Improves construction schedule certainty by reducing the number of ROW takes overall by 62 percent
 Efficient SWM facilities, minimizing the ROW required 	• Further reduction of ROW acquisition needed by 2.4 acres, saving VDOT an estimated additional \$78,851.
 Balanced Median Earthwork with flatter slopes, reducing the quantity of guardrail by over 5.5 miles 	Improves safety over the life of the assetReduces maintenance costs
 Access to SWM ponds from local roads 	 Reduces long term maintenance costs Improved safety for VDOT maintenance crew staging
 Extend ramp tapers to meet RDM requirements 	 Better traffic safety and operations
 Improved existing geometry (normal 2 percent cross-slopes, longer vertical curves to 75 mph std.) 	 Better traffic safety and operations
 Fully comply with "level terrain" criteria with grades instead of 4 percent max 	 Better traffic safety and operations
 Minimize superelevation softening curves 	 Better traffic safety and operations
 Realigned Route 143 off-ramp 	 Reduce traffic impacts during construction Improve public acceptance Improve construction schedule
 Shifted roadway centerlines 2 feet toward the median 	 Minimize conflicts and disruption with utility relocations Reduces initial construction costs Improve public acceptance by reducing tree clearing Improves construction schedule certainty Reduces initial cost
 Minimize conflicts and disruption with utility relocations 	 Reduces initial construction costs Improve public acceptance by reducing tree clearing Improves construction schedule certainty Reduces initial cost

Virginia Department of Transportation -I-64 Capacity Improvements, Segment III – 4.3. Design Concept

or better access
ement of micropiles in close proximity of existing piles sturbance, and noise impacts d patrons
nber of ROW takes overall by 62 percent
aving VDOT an estimated additional \$78,851.

4.3.1: Conceptual Roadway Plans

The Skanska Team's conceptual roadway plans are located in Volume II. The proposed improvements include reconstruction of existing I-64 and an additional 12-foot wide travel lane and median shoulder in each direction meeting the VDOT Road Design Manual (RDM) Standard GS-1 for a **Rural Principal Arterial** (Interstate) classification with a 75 mph design speed. Our Team's roadway design not only meets VDOT's primary objective of reducing congestion and improving capacity, it also improves many of the existing roadway conditions to achieve current design standards, including some

Table 4.3.2: Design Concept Features

Feature	Safety	Operations	Construction Schedule	Construction Cost	Public Acceptance	Future Inspection / Maintenance	Long Term Durability
Reduced number of SWM ponds by 50%			✓	√	√	√	
Optimized median grading, guardrail and clear zone	\checkmark	\checkmark	\checkmark	\checkmark		✓	
Balanced earthwork in median	\checkmark		\checkmark	\checkmark			
Queens Creek by shifting eastbound bridge 25 feet to the south		~	✓	✓	✓	✓	
Wider shoulders	\checkmark	\checkmark			\checkmark		
Extension of acceleration and deceleration lanes at interchanges	✓	✓			✓		
Elimination of bridge joints	\checkmark				\checkmark	✓	\checkmark
Colonial Parkway aesthetics					✓		
Use of micropiles			\checkmark	\checkmark	\checkmark		
Concrete barrier to avoid culvert extension	✓		✓	\checkmark	✓		
Bearing replacement	✓	\checkmark				✓	\checkmark
Aesthetics on sound barrier					✓		

of the features listed in Table 4.3.2. VDOT has approved one design exception and four design waivers for existing features along I-64. The Skanska Team's design implements all required mitigation measures.

While validating the RFP Concept Plans, we noted that the tapers at the start of the deceleration lanes for the I-64 off-ramps to Route 199/646 and Route 143 are shown as 250 feet long. This complies with AASHTO guidelines, but not the RDM (Table C-8-1), which calls for a 25:1 deceleration taper when the design speed is 50 mph or higher, i.e., 300 feet for a 12-foot lane. To avoid requesting a design waiver for these four locations, we have chosen to provide the full 300-foot deceleration taper at each. We will not request any additional design exceptions or waivers.

Our (SWM) design to reduces the ROW acquisition by 62 percent (approximately 10.3

acres) and VDOT's associated costs, in addition to expediting the Project schedule.

a) General Geometry

The tightest horizontal curve in our roadway plans is approximately one degree. Only two curves eastbound and two curves westbound required superelevation to provide a 75 mph design speed. These curves are much flatter than the allowable minimum radius, improving safety and functionality for drivers, especially in winter weather conditions.

Some of the existing geometric features do not meet VDOT and/or AASHTO's current design standards. This Project will update substandard geometric features to current standard, including:

- providing two percent normal crown cross slopes.
- lengthening vertical curves as needed, such as the sag vertical curve on I-64 eastbound near mile marker (MM) 238, to attain a 75 mph design speed.

We are also providing three typical sections that:

- Provide an environmentally conscious and economical solution;
- Offer durability and functionality with readily available resources; and
- Minimize traffic disruption during construction.

b) Horizontal Alignments

The Skanska Team's proposed design shifts the I-64 centerline two ft. towards the median, allowing us to provide the widened outside shoulders desired by VDOT to minimize the clearing requirements outside of the primary roadway footprint. We plan to use the horizontal curves shown on Sheets 3 through 17 in Volume II.

At Queens Creek, we are proposing to shift the north side of the I-64 westbound bridge approximately six ft. south and shift the south side of the I-64 eastbound bridge approximately 25 feet south. These changes optimize the construction schedule, minimizing the disruption to the traveling public. Furthermore, our proposed realignment provides 40 feet of separation between the bridges, reducing shading impacts on the wetlands between the bridges. We will accomplish these alignment shifts using sweeping horizontal curves that will not require superelevation (Sheet 14 in Volume II).

We selected the superelevation for each curve on I-64 in accordance with VDOT Standard TC-5.11R for a 75 mph design speed. We used shifting tapers on I-64 for minor adjustments in alignment to optimize shoulder widths under existing bridges. Optimizing shoulder widths will minimize the tendency of drivers to shy away from the pier protection barriers.

Most of the ramps require only minimal work at the gores to tie-in to the I-64 mainline travel lanes. As required, we are reconstructing the I-64 eastbound off-ramp to Route 143 per VDOT's GS-R standard with a design speed of 35 mph and a minimum radius of 316 feet Our design also accommodates a WB-67 design vehicle for the right-turn movement from the ramp onto Route 143. As shown on Sheet 12 in Volume II, we are proposing to reconstruct this ramp just to the left of the existing ramp in order to minimize construction duration and traffic disruptions.

c) Maximum Grade

Although RFP Attachment 2.2 allows for grades up to four percent east of Queens Creek, our plans will fully comply with the standard for "level" terrain and provide an enhanced design that improves on the RFP Plans by limiting the grade to three percent on westbound I-64 and 2.95 percent on eastbound I-64. This will result in smoother traffic flow by minimizing the tendency for heavy vehicles to slow down on on the steeper grades.

The eastbound I-64 off-ramp uses a grade of 2.77 percent, which complies withand in fact exceeds the requirements of VDOT's GS-R standard for a maximum grade of six percent for a 35 mph design speed.

Between successive overpasses, the I-64 proposed profiles are approximately 0.5 inches higher than the existing profiles where the existing pavement is asphalt, and approximately 2.5 inches higher where the existing pavement is concrete. To meet the requirement of 16 feet, 6 inches of vertical clearance where I-64 passes under existing bridges, such as at Route 604 (Barlow Road), we used 75 mph vertical curves as needed to lower the profile of I-64.

d) Typical Sections

We will use three basic typical sections on I-64, as described and depicted in Figures 4.3.1, 4.3.2, and 4.3.3 on Page 7. Our designs will use either asphalt or concrete to construct the mainline and shoulders. These typical sections use depressed grass medians per VDOT's GS-13 standard and proposed median width of 44 feet measured between the eastbound and westbound inside travel lane edge of pavements. The third typical section uses bridge pier protection featuring TL-5 barriers designed per VDOT's BPPS-1 and BPPS-2 standards where I-64 passes under existing bridges.

Asphalt Mainline and Shoulders with Guardrail

- New pavement buildup incorporates major components of sound existing pavement, for an environmentally friendly, sustainable practice.
- Lowest initial cost will allow VDOT/HRTAC funding to be re-allocated to other worthy projects.
- Does not disturb existing subgrade to minimize SWM requirements.
- Flat slopes and sufficiently wide median reduces the need for guardrail and associated maintenance costs.

Concrete Mainline and Shoulders

- Highly durable to reduce long-term maintenance costs for VDOT.
- Uses readily available source materials to enhance schedule certainty for construction.
- Does not disturb existing subgrade to minimize SWM requirements.
- Flat slopes and sufficiently wide median reduces the need for guardrail and accompanying maintenance costs.

Asphalt Mainline and Shoulders with TL-5 Barrier

- Keeps existing overpass structures in place to minimize disruption to the traveling public.
- Barrier cost is much lower than bridge replacement, allowing more VDOT/ HRTAC funding to be reallocated to for other worthy projects.
- Enhances protection of valuable bridge assets to reduce the risk of structural failure.



Figure 4.3.1: Asphalt Mainline and Shoulders. This typical section offers an environmentally conscious and economical solution.

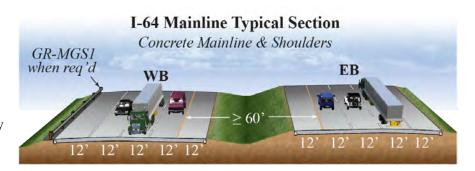


Figure 4.3.2: Concrete Mainline and Shoulders. This typical section offers durability and functionality, with readily available source materials.

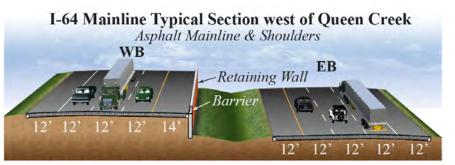


Figure 4.3.3: Asphalt Mainline and Shoulders with TL-5 Barrier. This typical section allows us to minimize traffic disruption and reduce costs over bridge replacement.

Where the median is wide enough and bifurcation between the eastbound and westbound roadways is minimal, we have optimized the use of the guardrail, which will minimize construction time. This removes a potential hazard—the guardrail itself—from the clear zone and also minimizes the need for future maintenance due to vehicular collisions with the guardrail. Since approximately 40 percent of all crashes in the Project area involve vehicles that veer off the road, this approach will benefit VDOT's traveling public by resulting in fewer crash-induced traffic backups. We have reduced the guardrail by approximately 30,000 linear feet.

By providing TL-5 pier protection for the bridges that span over I-64, we will protect the bridge piers from errant vehicles, minimizing emergency maintenance situations and extending the life of some of VDOT's most valuable and vulnerable assets.

The median retaining wall between Route 143 and Queens Creek will have an architectural brick finish (via formliner). The Skanska Team has a proven track record of applying aesthetic treatments to walls as evidenced by the recently completed I-264 Widening/MLK Extension DB Project (Figure 4.3.4).



Figure 4.3.4: Local Experience with Aesthetic Treatments. Roadway walls completed at I-264 Widening/MLK Extension Project, Portsmouth, VA.

e) Conceptual Hydraulic and SWM Design

Our conceptual hydraulic and SWM design is provided on the plans sheets in Volume II. In addition, a detailed description of our drainage design approach and benefits is presented in Section 4.4.2: Hydraulics. Where possible, the proposed SWM facilities have access from surface streets instead of from I-64, enhancing safety for VDOT's maintenance personnel. We also avoided utility conflicts and wetland impacts to the extent practicable.

f) Proposed Right of Way Limits

We have highlighted ROW reductions on the Volume II plans as required in Section 4.3.1 of the RFP Part 2. ROW impacts along the corridor are primarily for the construction and maintenance of SWM facilities. Our approach to SWM greatly reduced the Project's required ROW acquisitions and associated costs to VDOT, in addition to expediting the project schedule.

The Skanska Team's proposed ROW impact is eight parcels (a reduction of 13 parcels or 62 percent from the RFP plans.

g) Proposed Utility Impacts

The Skanska Team has prioritized utility avoidance in order to reduce cost and schedule impacts. Utility impacts, based on our evaluation, are primarily due to bridge widening (Figure 4.3.5, Page 9) and drainage. A summary of these impacts is presented in Table 4.3.3, page 9.

The greatest opportunity to eliminate impacts is through refinement of the configuration of drainage piping and SWM facilities. As such, we concentrated our efforts on the drainage design and successfully avoided a number of potential impacts.

h) Noise (Sound Barrier) Wall Locations

The Project will require a draft and final Noise Abatement Design Report (NADR). The findings of the NADR will determine the final configuration of the sound barrier(s). Our proposal accounts for the 6,080 square feet of bridge-mounted sound barrier wall and 89,220 square feet of ground-mounted wall as noted

Table 4.3.3: Summary of Utility Impacts

Utility Owner	Location	Impact Status
Cox	Barlow OH	Impacted
Cox	Lakeshead UG	Impacted
Cox	Newman UG	Avoidance
Dominion Energy	Lakeshead UG	Avoidance
HRSD	Newman UG	Avoidance
NNWW	Newman UG	Avoidance
Verizon	Barlow UG	Avoidance
Verizon	Barlow UG	Avoidance
York Co. DPU	Lakeshead UG	Avoidance

in Addendum No. 1. The RFP Plans (Sheet 9) indicate the wall beginning on the south side of I-64 on the Queens Creek bridge should be assumed to be 16 feet high, while the two walls shown further east (Sheets 10 and 11) should be assumed to be 19 feet high. We recognize the importance of aesthetics in achieving public support; therefore, all noise walls approved for construction will comply with the aesthetic requirements listed in Section 2.4.9 of the RFP. In the Noise Technical Memorandum (NTM) dated December 2013, the sound barrier immediately east of Queens Creek was modeled at the top of the hillside, close to the existing ROW line. However, the walls shown in the RFP Concept Plans are adjacent to the I-64 eastbound shoulder. Because these wall locations are quite different acoustically, we performed preliminary modeling to validate the RFP conceptual height for the wall at Queens Creek. Sixteen feet appears to be reasonable for the RFP concept.

We also modeled our proposed design with the Queens Creek bridge shifted 25 feet south. This may require the wall to be raised two ft. to reduce impacts in the Creekside Landing neighborhood. An additional benefit of the bridge shift is that the Queens Lake neighborhood may experience about one decibel less of traffic noise.

4.3.2: Conceptual Structural Plans

The Skanska Team's Conceptual Structural Plans are included in Volume II. Descriptions of the different elements, including any enhancements, are provided in the following sections.

B642 and B643: I-64 over Queens Creek

Our concept for these bridges is to replace the existing structures in their entirety. The existing piles will be removed to a minimum of 2 feet below the existing grade. Our proposed method of replacement will result in a minor variation from the horizontal alignment depicted in the RFP Plans (Figure 4.3.6, Page 10).

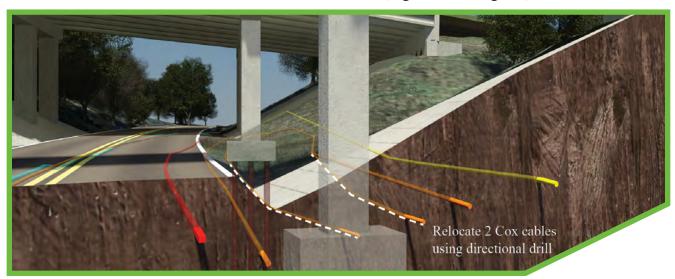


Figure 4.3.5: Utility Impacts. Our Team engaged in interdisciplinary coordination during the proposal stage to avoid or mitigate clashes between existing utilities and Lakeshead foundation locations.

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Figure 4.3.6: Bridge Replacement at I-64 over Queens Creek. Our proposed I-64 alignment is shifted 25 feet at Queens Creek and allows for more sunlight to the wetlands through a wider median. Virginia Department of Transportation -I-64 Capacity Improvements, Segment III – 4.3. Design Concept

We propose to construct the bridges from a single temporary trestle constructed in the median of I-64. The resulting configuration of the bridges will require an eastbound roadway alignment shift to the south. This alignment shift will remain within the existing VDOT ROW and eliminate approximately 1,600 feet of temporary construction trestle, thereby reducing the overall bridge construction schedule and minimizing the Project's temporary environmental impacts. Furthermore, the proposed shift yields a reduction in permanent wetland impacts. In the final configuration, the eastbound and westbound bridges will be separate structures with a clearance of approximately 40 feet between the bridges, an improved condition for wetland impacts associated with bridge shading.

Our proposed alignment shift of EB Queens Creek bridge will remain within the existing VDOT ROW and eliminate approximately 1,600 feet of temporary construction trestle, thereby reducing the overall bridge construction schedule and minimizing the Project's temporary environmental impacts.

Typical Section: The new bridges will consist of three 12-foot wide lanes and two 12-foot wide shoulders in each direction. During construction, we will provide two 12-foot wide lanes and twoft. wide (minimum) shoulders in each direction.

Superstructure: We selected our proposed span configuration based on an optimal design for a low-level, trestle-type bridge (concrete superstructure with plumb pile bents). Since the new bridges will occupy the same footprint as the existing bridges, our design uses a span arrangement that avoids interference with existing pile foundations. Additionally, our span configuration minimizes wetland impacts and provides a hydraulically equivalent bridge opening. The resulting bridge configuration consists of multi-span bridges with a maximum span of 80 feet, as presented in our Conceptual Bridge Plans in Volume II. The new bridges will use VDOT standard PCBT-45 prestressed concrete beams with a composite reinforced concrete deck slab, and will be supported by prestressed concrete pile bents and concrete abutments. The new bridges will be constructed using jointless bridge technologies as outlined in the VDOT Manual of the Structure and Bridge Division, Volume V, Part 2, Chapter 17. By avoiding the need for intermediate expansion joints, we have greatly reduced VDOT's longterm maintenance costs for both the superstructure and substructure. A sound barrier is required on the south edge of the eastbound bridge, and will be supported by a bridge deck extension per VDOT's Manual of the Structure and Bridge Division, Volume V, Part 2, File No. 25.03-4.

Substructure: The intermediate supports for the new bridges will consist of pile bents, similar to the details presented in the VDOT Manual of the Structure and Bridge Division, Volume V. These pile bents will be supported by 24-in. square prestressed concrete piles per the details and notes in VDOT Standard BPP-2. Pursuant to the Abutment Selection Algorithm shown in the VDOT Manual of the Structure and Bridge Division, Volume V, the proposed abutments will be "Virginia Abutments" as shown in the RFP Concept Plans. Like the details shown in the VDOT Manual of the Structure and Bridge Division, Volume V, tooth expansion joints will be provided at each abutment behind a concrete diaphragm made integral with the new superstructure. Abutments will be supported by 14-inch square prestressed concrete piles.

This configuration will help to contain the bridge drainage in a concrete trough behind the bearings. By directing the runoff water away from the bridge, this minimizes VDOT's long-term maintenance. Since the trough outlet is placed at ground level, VDOT's maintenance personnel can safely access it for cleaning and maintenance.

Material Selection, Maintenance and Construction Considerations: Using the jointless bridge technologies discussed above, the long-term maintenance requirements for these bridges are expected to be minimal since runoff water from the bridge deck surface will be channeled away from bearings and other critical substructure elements.

All new concrete construction will use Corrosion Resistant Reinforcing (CRR) Steel per VDOT IIM-SandB-81.7. We will use low permeability concrete for all new bridge elements. The prestressed concrete piles within the tidal flow of Queens Creek will use stainless steel strands per VDOT Standard BPP-2. These materials and construction methods will help to increase the service life of the new bridges.

The new bridges will be designed per the provisions of the AASHTO LRFD Bridge Design Specifications, 7th Edition and VDOT Modifications (IIM-SandB-80.5). Strategies for MOT are provided in the Transportation Management Plan (TMP) in Section 4.5.2. Load ratings will be completed for all phases of construction and submitted for VDOT approval before implementation of any traffic configuration.

B638 and B641: I-64 over Route 1314 (Lakeshead Drive)

The Skanska Team has extensively reviewed the latest inspection report and performed a field review of the existing bridges over Lakeshead Drive. We found that making the deck joints continuous, replacing the bearings, and performing the specified spot repairs is the most cost effective method and the least disruptive to the I-64 motorists and the Queens Lake neighborhood.

Typical Section: During construction, we will widen the existing bridges, providing two additional 12-foot wide lanes and 2-foot wide shoulders in each direction. We will maintain a minimum vertical clearance of 16 feet and 6 inches during and after construction.

Superstructure: The proposed bridge superstructures will match the existing superstructures, which consist of three spans supported by multi-column concrete piers and concrete abutments. The bridges will be widened using standard VDOT PCB-2 prestressed concrete beams. Beams will be spaced to ensure that stiffness/deflection of the new composite, simplespan beam section will be compatible with that of the existing beams. The existing fascia beam will be verified for its adequacy as an interior beam in the final bridge configuration. During construction of the widened portion of the superstructure, we will avoid adding dead load to the existing structure.

We will repair and/or rehabilitate all existing superstructure elements identified in the RFP Information Package and during our field inspection that are to be incorporated into the final condition. The existing bridge deck slabs will be repaired by removing the existing thin epoxy overlay and the top ³/₄-inch of the deck slab, patching the deck as required and overlaying with a latex-modified concrete. Additionally, all existing pier and abutment open deck joints will be made continuous using standard VDOT details. Similarly, the deck slab expansion joints at the abutments will be eliminated by converting the existing abutments to deck slab extension type abutments with buried approach slabs per VDOT's Structure and Bridge Manual, Volume V, Part 2, Chapter 17.

Elimination of these expansion joints will greatly reduce the long-term maintenance costs for VDOT for both the superstructure and substructure (Figure 4.3.7) on page 13.

We will patch existing beams and diaphragms and repair cracks using an epoxy injection. We will replace the existing low-profile bearings with steel-reinforced elastomeric bearings. In order to complete bearing replacement and beam seat repairs, we will jack and block the existing superstructure in a manner that does not damage the existing beams or deck slab so they may remain in service. A load rating analysis will be performed for all stages of jacking and blocking per the requirements of VDOT IIM-SandB-86.1.

Substructure: We will design and construct the widened portions of the bridge substructures to match the existing bridges. The abutments will consist of cast-in-place concrete with a deck slab extension above the backwall, and will be supported by pile foundations. The piers will consist of pile supported, two-column piers. We will repair the existing concrete slope protection in front of the abutments using a strategy that avoids impacts to existing utilities. We will use VDOT's standard Pier Protection System adjacent

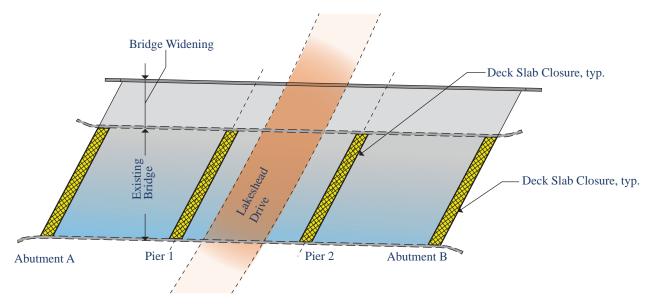


Figure 4.3.7: Elimination of Expansion Joints. The Skanska Team's design avoids VDOT's maintenance costs associated with bridge expansion joints at Lakeshead Drive.

to Lakeshead Drive, unless statistical analysis of traffic levels per AASHTO C3.6.5.1 indicate that the probability of collision is low enough to eliminate the requirement for barriers.

Material Selection, Maintenance and Construction Considerations: By eliminating the deck slab expansion joints, we have reduced the long-term maintenance requirements for these bridges, as all deck surface drainage will be redirected away from the bridge substructure and into the roadway drainage system. We anticipate little to no impact construction impacts to adjacent utility owners.

As required by VDOT IIM-S and B-81.7, we will use CRR for all new concrete construction, and low permeability concrete for all new bridge elements. We will install galvanic anodes in all repaired portions of the existing concrete substructure units. These materials and construction methods will increase the service life of the widened bridges.

B639 and B640: I-64 over Colonial Parkway

At Colonial Parkway, our approach is to design and construct the arch widening per the RFP requirements, but with the use of micropiles to reduce noise, land disturbance, and visual impacts. Because they are thinner and more easily threaded through the existing batter piles, micropiles offer a highly constructible solution. In addition, micropiles eliminate percussive driving noise and the visual impact of large pile driving rigs, thus minimizing disturbance to patrons of the Colonial Parkway. We will use nighttime lane shifts for I-64 traffic, and maintain at least one lane of traffic on Colonial Parkway during bridge construction. Our crews will maintain a clean and orderly work zone along Colonial Parkway at all times.

Typical Section: We will replace the existing pavement structure above the arches and use fill material below the pavement that meets the requirements of the RFP. During construction, we will provide two additional 12-foot wide lanes and two 1-foot wide shoulders in each direction. We will maintain a minimum vertical clearance of 14 feet and 6 inches. during construction, and a minimum vertical clearance of 14 feet and 8 inches, which will match the existing low chord elevation of the eastbound bridge, in the final bridge configuration.

Superstructure: The proposed bridge superstructures will match those of the existing bridges. The new portions of the arches will be cast-in-place, and will be structurally connected to the existing portions of the arches. We will construct the widened portion of the superstructure in a manner that avoids adding dead load to the existing structure. All existing superstructure elements that are to be incorporated into the final condition will be repaired and rehabilitated. We will patch existing arches, use epoxy injection to repair cracks, and clean weep holes near the base of the arch legs.

The brick façade for the new portions of the widened arches will match the appearance of the existing arches. We will use solid brick for the widened arch sections, as presented in Figure 4.3.8 on page 14. No brick veneer or form liners will be used for these bridges.

Substructure: The widened portions of the arch substructures will match the existing bridges. We will construct the arch foundations using cast-inplace concrete with driven prestressed concrete piles and micropiles for support. We will take extreme care to design the widened foundation in a manner that avoids interference with the battered piles supporting the existing wingwalls. We will use micropiles to avoid intersecting these existing piles. New wingwalls that match the appearance and configuration of the existing wingwalls will be provided at both bridge approaches supported by pile foundations. We will repair erosion along the Colonial Parkway shoulders and in front of the existing arch legs, and install a new drainage system.

During construction of the bridge foundations, we will avoid impacts to the existing telecommunications utility adjacent to the eastbound bridge, as we will accurately locate this existing facility using SUE Level A test holes. Additionally, our design will ensure that there is no differential movement between the new and existing portions of the arches.

Material Selection, Maintenance and Construction Considerations: The Skanska Team proposes to provide all rehabilitation and/or repairs to the existing bridges. Due to the successful long-term performance of an earth-filled arch, the life cycle maintenance requirements for these bridges are expected to be minimal. All new concrete construction will use CRR steel as required by VDOT IIM-SandB-81.7. We will use low permeability concrete for all new bridge elements, and install galvanic anodes in all repaired portions of the existing concrete substructures. We will provide extra concrete cover, in addition to the minimum required by VDOT standards, in areas where concrete retains soil, to protect the reinforcing steel against corrosion caused by extended exposure to moisture. These materials and construction methods will help to increase the service life of the bridges in their widened state.

We will design all widened portions of the bridges according to the provisions of the AASHTO LRFD Bridge Design Specifications, 7th Edition and VDOT Modifications (IIM-SandB-80.5). Details for MOT can be found in the TMP in Section 4.5.2. Load ratings will be prepared, submitted to VDOT, and approved, prior to implementation of any traffic configuration changes that will use the new widened sections of the bridges.

Retaining Walls

Our Team's conceptual retaining wall plans are included in Volume II. The wall located between stations 2325+50 and 2346+00 will be designed to be mechanically stabilized earth MSE walls. We will construct all MSE walls with a vertical face to remain within the existing VDOT ROW. Walls constructed in the median of I-64 will use an architectural brick finish (via formliner).









Figure 4.3.8: Colonial Parkway Aesthetics. Our design uses solid brick to blend the new portions of the widened arches with the existing arches.

Virginia Department of Transportation -I-64 Capacity Improvements, Segment III – 4.3. Design Concept

4.4 Project Approach



SKANSKA

4.4

Project Approach

The I-64 Widening, Segment III Project presents an opportunity for VDOT and the Skanska Team to deliver a successful design build project together. As the largest and most complex of the I-64 Peninsula widening projects, this segment presents unique challenges that must be addressed in order to fully achieve the Project objectives. During the procurement phase, we have focused on planning all aspects of the project's preconstruction and construction activities which, when executed, will result in a safe, high quality Project that is delivered ahead of schedule.

We thoroughly understand that issues can arise on design build projects when execution does not meet expectations, including some projects here in the Hampton Roads District. Our Project approach has been developed to specifically address those issues to ensure that design and construction of this I-64 Project are successfully delivered to VDOT's satisfaction. As requested

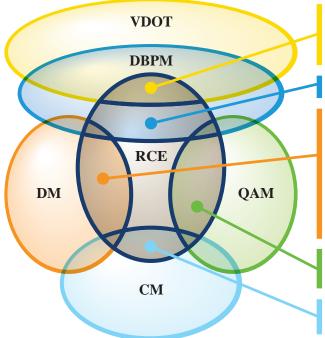


Figure 4.4.1: RCE Communication.

in your RFP and as described in this section, these issues and our approach to addressing them, include:

- Environmental Management
- Hydraulics and SWM
- Geotechnical
- Quality Assurance / Quality Control

We understand that to address these issues, our Project logistics must be well thought out and our design and construction processes must be thoroughly developed through reliance on our Team's experience in delivering similar projects and our understanding of best practices. However, it is one thing to describe an approach and another to implement that approach. The Skanska Team fully embraces the role of the Responsible Charge Engineer (RCE) and the importance of this key person to effectively manage all aspects of design, construction and quality of the Project as depicted in Figure 4.4.1.

Communicates w/VDOT. Authority to shut down the project if warranted.

Reports to DBPM.

Ensures engineering is performed by qualified professionals licensed in Virginia and plans are signed and sealed per DPOR regulations. Authority to make and approve engineering decisions.

Communicates with QAM during construction.

Authority to make and approve construction decisions.

Our Team brings together some of the foremost design, environmental, quality and construction firms for this critical Project, ready to implement our well-established processes and procedures to ensure success. We are committed to the successful execution of the I-64 Segment **III** Project with VDOT.

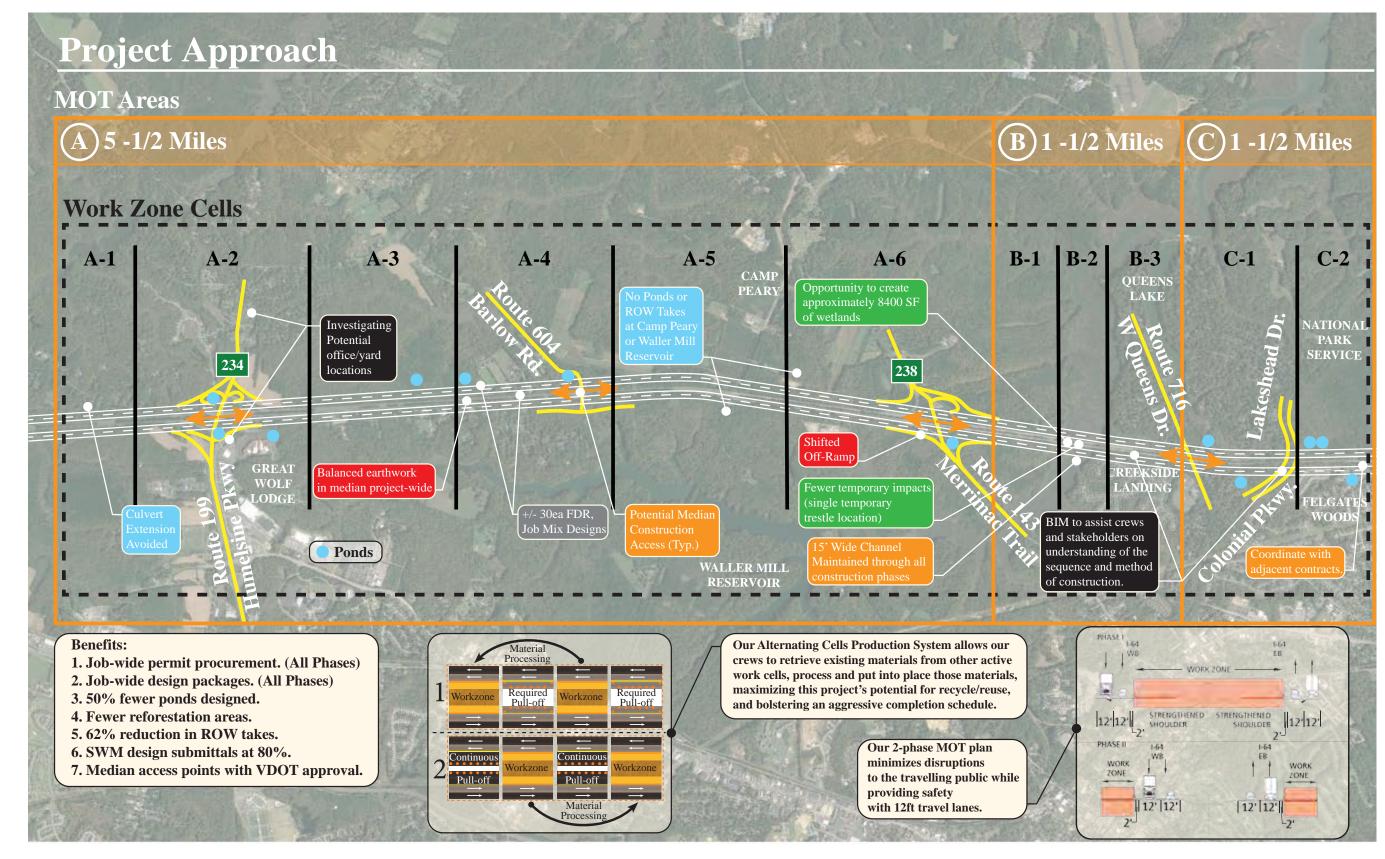


Figure 4.4.2: Concepts and benefits to our approach.

4.4.1: Environmental Management

Planned Efforts During Design and Construction

The Skanska Team will integrate our environmental staff into the design-build task groups, maximizing awareness of critical areas, natural resources, cultural resources, and predetermined environmental commitments and constraints. We will implement effective environmental risk management by holding weekly design progress meetings to exchange information, identifying potential issues, and developing resolution strategies.

WSP and VHB demonstrated this collaborative approach on past projects like the Dominion Boulevard (US 17) Improvements Project where they developed the following strategies:

- repositioning outfalls;
- steepening embankment and riprap slopes;
- reduce the Project footprint; and
- avoiding and minimizing impacts to both tidal and non-tidal systems.

On their Dominion Boulevard (US17) Improvements Project, by reducing the footprint and conducting pre-application discussions with the agencies involved, WSP and VHB accelerated the permitting process and obtained water quality permits (individual permits) in less than 120 days. The Skanska Team will replicate this strategy to obtain timely permits on the I-64 Segment III Project.

We will keep the resource agencies informed of the design progress by holding several pre-application, check-in meetings to discuss the Project alignment, potential construction methodologies and resource impacts. We will present any challenges or key issues that need to be vetted early in the process. Through our early coordination, we understand that the Virginia Institute of Marine Science has already reported to VDOT and the Virginia Marine Resources Commission that they are not recommending a Time of Year Restriction (TOYR) for pile driving within Queens Creek unless hollow piles are used. Planning these touchstones early in the process makes it easier for the design team to incorporate items that address agency concerns and convey a level of trust and credibility back to the agencies. This will translate to a smoother permitting process and greater schedule certainty.

As with the design phase, our Team will integrate our environmental staff into the construction phase so they may communicate directly with our superintendents with the goal of making all parties aware of the permit conditions, requirements, and environmental commitments.

Environmental staff will be integrated into our process of planning construction operations, and also will provide awareness training for field personnel prior to the start of work.

Critical steps before construction begins include submitting final plans to the Department of Environmental Quality (DEQ); allowing for a 30-day review and comment period; and flagging all non-impacted wetlands, streams, and other sensitive areas within the ROW, such as the National Park Service's (NPS') Colonial Parkway and Williamsburg Battlefield. The presence of these markings will be reviewed with the field crews and incorporated into our work plans.

Our construction monitoring program (Figure 4.4.3) will provide environmental oversight throughout construction. VHB's Williamsburg office is located within minutes of the corridor,



Figure 4.4.3: Construction Monitoring Program. We will hold pre-activity meetings, inspections, and identify corrective measures as part of our program.

with senior environmental staff available to assist in training the construction crews and evaluating activities within the corridor. Skanska employs a formal tracking system for logging erosion and sediment control reports, documenting environmental issues and assuring their timely resolution, in our Skanska Integrated Quality Information Management System (QIMS) as further discussed in Section 4.4.4: Quality Assurance/Quality Control.

Approach and Potential Solutions for Recognized Concerns within the Project Footprint

VDOT has already eliminated many of the preexisting concerns within the ROW through detailed analysis and coordination with the regulatory agencies. Our design remains within all existing or RFP-proposed ROW boundaries, and our intent is to develop final plans without having to obtain any ROW additional to that proposed in the RFP concept plans. This maximizes schedule certainty by eliminating the need for any new environmental studies in areas that are currently undocumented.

Colonial Parkway Crossing and Section 4(f) Properties

A critical stakeholder in the design and permitting process is the NPS' Colonial National Historic Park. We will closely follow the commitments outlined in the Programmatic Agreement regarding the I64 Bridges over the Colonial Parkway, and hold multiple design progress meetings with invitations extended to VDOT and NPS. We are also aware of the nearby 4(f) property (Williamsburg Battlefield) and will keep our impacts below *de minimis* levels.

Noise Analysis

Our Team will complete and furnish a final Noise Abatement Design Report (NADR) in compliance with VDOT's applicable policies and guidance documents.

Tidal Wetland Crossing

The Queens Creek bridge crossing is a critical path element to the permitting of the overall Project. This crossing represents the largest square footage impacts to wetland resources of all elements of the Project, so we have performed a detailed analysis of the potential impacts.

Our design of the Queens Creek bridges reduces the overall total wetland impacts by eight percent by shifting the alignment of the eastbound bridge by 25 feet to the south. This shift benefits the Project by requiring fewer temporary impacts to adjacent tidal wetlands, since a single construction access corridor will be used between the eastbound and westbound bridges. Our approach also reduces construction noise impacts associated with multiple construction access locations. Our innovative eastbound bridge alignment is more cost effective and requires less time to construct (Figure 4.4.4).

Our solution widens the median between the two bridges to approximately 40 feet, increasing the sunlight between the structures and eliminating the indirect shading impacts inherent to the RFP Plan. An upland area (8,400 square feet) between the shifted bridges can be regraded to the



Figure 4.4.: Queens Creek Median Alignment Shift (RFP vs Alignment Shift): An upland area (8,400 square feet) between the shifted bridges can be regraded to the appropriate marsh elevation following completion of bridge construction, resulting in 30 percent less wetland footprint for the crossing.

Virginia Department of Transportation -I-64 Capacity Improvements, Segment III – Page 19 4.4. Project Approach appropriate marsh elevation following completion of bridge construction, resulting in 30 percent less wetland footprint for the crossing.

Threatened and Endangered Species

According to the RFP, species within or adjacent to the Project are the Small Whorled Pogonia (Ilostria Medeoloides), Atlantic Sturgeon (Acipenser Oxyrichus), Northern Long-Eared Bat (Myotis Septentrionalis), and the Mabee's Salamander (Ambystoma Mabeei). VDOT's survey found several small areas identified as potential Small Whorled Pogonia habitats, but no Small Whorled Pogonia plants were found. Potential habitats carry no formal regulatory protection status, so currently this species does not impact the Project. We will coordinate these findings with the appropriate agencies during the permit process. The Atlantic Sturgeon, an anadromous fish, will require Section 7 consultation given that this species is known to migrate within the York River. Through preliminary coordination with permitting agencies, we are confident the TOYR will not impact the installation of Permanent works.

On January 5, 2016, the Programmatic Biological Opinion (PBO) for the Final 4(d) Rule was issued and a Final 4(d) Rule was issued effective February 16, 2016 for the Northern Long-Eared Bat. The Skanska Team will employ voluntary conservation measures, such as a TOYR on tree clearing as well as bat inspections of the bridges per VDOT and FHWA protocols. Our Team will conduct an acoustic study, consisting of 15 to 18 acoustic detectors installed for a two-night period in the summer of 2018, to determine if protected bats are present within the corridor. If bat usage is found, we will implement the appropriate avoidance and minimization (AAM) measures outlined in the PBO.

Finally, the state-threatened Mabee's Salamander was identified as being within the vicinity of the Project. It is unlikely that suitable habitat for the Mabee's Salamander is located within the ROW, but a habitat assessment to fully document habitat presence or absence within the corridor will be completed and submitted to the Department of Game and Inland Fisheries for review and determination.

Water Quality Permits and Mitigation

Based on the March 2017 pre-application meeting that VDOT held with the U.S. Army Corps of Engineers (COE), DEQ, and the VMRC, we understand that individual permits will be required from those entities. Additional permits/ authorizations from the DEQ include: Virginia Stormwater Management Program (VSMP), Spill Prevention Control & Countermeasure (SPCC) Plan, Virginia Pollution Discharge Elimination System (VPDES), and Coastal Zone Management Area (CZMA) Consistency Determination.

The Skanska Team will prepare a Joint Permit Application (JPA) and permit support documentation that identifies the Project goals, purpose and need, avoidance and minimization measures, direct and indirect impacts, and proposed mitigative measures to offset the proposed impacts (Figure 4.4.5, Page 21). For the bridge crossing over Queens Creek, approximately 0.8 acres of tidal marsh will be impacted and require at a minimum 1:1 replacement. Currently, there are no tidal mitigation banks within the watershed so mitigation could be achieved through payment into the Aquatic Trust Fund. Mitigation for nontidal impacts could be satisfied through bank purchases within the watershed and/or payment into the Aquatic Trust Fund. Our Team plans to submit the JPA by June 2018 with wetland permits being issued by October 2018, well in advance of the January 2019 construction start.

Integration of Environmental Management into the Schedule

Our environmental strategy for maintaining and exceeding schedule milestones includes:

- identifying schedule-critical environmental issues and mitigation measures at design kick-off;
- collaborating and communicating within our interdisciplinary team;
- coordinating early with regulatory agencies and key stakeholders; and
- developing plans that address agency/ stakeholder concerns, to the greatest extent possible, in advance of permit application submission.

Task Name	1/18	02/18	03/18	04/18	05/18	06/18	07/18	08/18	09/18	10/18	11/18
Concept Review w/ Permit Agencies		•••									
Pre-Application Mtg w/ Permit Agencies											
ROW Plan Set Development Complete			*								
Prepare Section 401 Permit App.			-								
Internal Review of Permit App.					•	-					
Submit Permit App. to VDEQ						*					
VDEQ Review Permit App.						•					
VDEQ Approve Permit App.										*	
VDEQ Final Plan Review										••	
Commence Work in Wetland Areas										,	★

Figure 4.4.5: Permitting Schedule. Our schedule is based on experience with the permitting agencies and knowledge of the design-build permitting process.

The proposal schedule presented in Section 4.7 outlines this approach and depicts an estimate for completion of key environmental tasks (such as threatened and endangered species coordination, and JPA preparation and submission) and anticipates worst-case construction restrictions related to threatened and endangered species. VDOT's recently completed wetland delineation, Small Whorled Pogonia survey, and State Historic Preservation Office (SHPO) clearances for work within the existing and proposed ROW have reduced work efforts for our team. However, in the areas where additional ROW is required, we have allowed time for the necessary environmental studies to occur within those areas. VHB is currently performing wetland delineations and cultural resource investigations on several large tracts of land that abut the western end of the Project. If additional ROW is needed in these areas, our advance environmental work will help keep the Project on schedule.

4.4.2: Hydraulics

Approach to Managing Hydraulic Features

The Skanska Team's drainage and SWM design meets or exceeds the applicable criteria, is efficient, and minimizes both the construction duration as well as future maintenance. We achieved this by minimizing land disturbance, proposing efficient SWM facilities, and eliminating unnecessary storm sewer systems and proposed culverts as presented in the RFP Concept Plans. We followed the Part II C Design Criteria, in accordance with the RFP, which resulted in the lowest SWM burden for the Project. By rapidly advancing key components of the drainage and SWM design, while taking into account site-specific requirements such as the York County Watershed Management and Protection (WMP) area, we were able to provide necessary SWM facilities at optimal locations and avoid more sensitive areas such as Camp Peary.

The Skanska Team's approach includes the features and benefits listed below:

- Optimized SWM design and facility layout requires 12 fewer ponds and 17 fewer grassed swales.
- Reduction in phosphorus loading by 11 percent in the WMP areas, thus exceeding the local requirements.
- Higher quality treatment of runoff using enhanced Erosion and Sediment Control (E&SC) during construction, as well as a more efficient SWM plan that adds greater treatment in a smaller footprint.
- Avoidance of the Camp Peary and Section 4(f) properties as part of the proposed SWM Plan.
- Stormwater Management Design will be expedited and the Stormwater Management Plan and Erosion and Sediment Control Plan will be finalized early in order to expedite the VSMP Permit application which is required to start construction. Taking

this approach on these critical path items increases schedule certainty for the project.

- Minimized tree clearing through the optimization of SWM facilities layout and other measures.
- Reduced maintenance costs due to an optimized SWM facility design.

Preliminary Engineering

As part of this proposal, our Team performed extensive preliminary engineering to minimize impacts of delay risk due to permit approval, design approval, and construction, while still meeting Project goals and RFP criteria. To date, our preliminary engineering includes:

- analysis of the SWM to meet and exceed Project criteria;
- analysis of the storm sewer system to provide the most efficient and cost effective design;
- alternative analysis to extend box culverts, including minor alignment shifts, construction of retaining walls and provision of MB-7 barrier with a moment slab in lieu of guardrail and "sliver" fills. (At the west end of the Project, we chose the barrier with moment slab option as it eliminated wetland impacts, preserved 11,000 square feet of forest, and minimized construction duration and cost);
- evaluation of scour and undermining at the existing box and pipe culverts under I-64;
- coordination of the roadway, drainage and pavement design to minimize subgrade disturbance, thereby reducing the number of SWM facilities required; and
- enhanced SWM facilities in York County WMP areas (where requirements are more stringent - particularly the requirement for a 10 percent pollutant load reduction) to "overcompensate" for peripheral areas of the Project and eliminate the need for ROW acquisition over much of the corridor.

Mitigation Strategies

Design Constraints

The following constraints will significantly reduce the risk of construction delays:

- complete avoidance of Camp Peary;
- cut/fill limit of 20 feet clear of Camp Peary

property to avoid the Camp's 45-day design review period;

- avoidance of the Queens Lake Community (we eliminated the SWM facilities in the RFP Concept Plans to comply with the community request to VDOT);
- Twelve percent reduction in phosphorus loading in the Waller Mill Reservoir and Jones Mill Reservoir watersheds, which exceeds the York County WMP area overlay district requirement of ten percent).

Design Approval Process and Permitting

We propose a fast-track permitting schedule that will use the following elements to enable construction to commence sooner:

- obtain VSMP Permit Application Projectwide, to provide for phased land disturbance construction;
- submit subsequent land disturbance area construction phases for approval;
- submit the Stormwater Permit in coordination with the District Hydraulic Engineer's monthly permit submittal schedule to ensure optimization of the approval time for the VSMP General Construction permit;
- coordinate work with the District Hydraulic Engineer to provide interim copies of the SWM Report for discussion/review, ahead of the final submittal for approval.

Stormwater Management

As part of the SWM design, we optimized the layout of SWM facilities to offer numerous benefits for the Project. To address water table variances, we analyzed the groundwater elevations provided in the RFP for each SWM facility location and used them in the preliminary determination of SWM facility type and size. Our design reduced the total number of SWM facilities in the RFP Concept Plans from 86 to 59. The overall duration of the ROW acquisition process (demonstrated in Figure 4.4.6, page 23) is largely driven by our SWM design, our schedule has built-in credibility as our SWM design eliminates ROW takes by 52%. Table 4.4.1 on page 23 presents the reductions in each type of SWM facility.

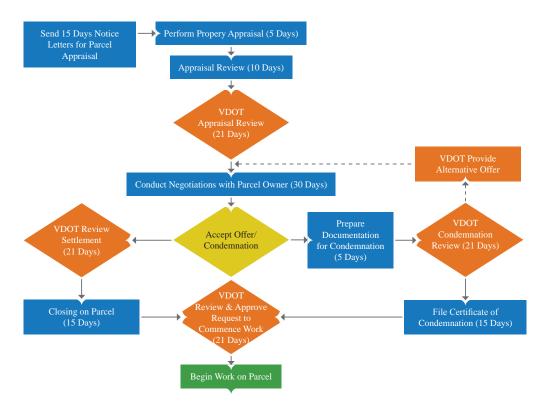


Figure 4.4.6: ROW Acquisition Process. The Skanska Team has familiarity and experience with minimizing and streamlining ROW acquisitions on fast-paced construction projects.

Table 4.4.1: Stormwater Management Optimization

No. of SWM Facilities	RFP Design	Skanska WSP Design
Bioretention	9	9
Extended Detention	15	3
Total	24	12

We eliminated 50 percent of the SWM facilities shown in the RFP Plans and reduced long-term maintenance costs for VDOT.

Optimized SWM Design

The Skanska Team used the following methodology to determine the best and most efficient locations for SWM facilities:

- Locations that maximized drainage area and resulting treatment from SWM facilities were favored.
- Locations that enabled higher yielding treatment and/or SWM facilities with low

maintenance costs were favored.

- Locations where the volume of the one-year storm (Q1) is required to be detained and then released over a 24-hour period have SWM facilities included.
- Locations that were near high points and did not provide efficiency from SWM facilities were removed.
- SWM facility locations that require ROW acquisition and were not needed per RFP requirements were removed.

Reducing the number of SWM facilities and optimizing SWM facility locations achieved many Project benefits:

- Reduction of ROW impacts
- Limited tree removal/destruction by 57 percent
- Better cut/fill balance
- Reduction of impacts to wetlands and existing communities
- Maximized SWM facilities in the WMP to meet local requirements, including the requirement to reduce phosphorus loading by 10 percent from the existing condition

Outfalls

The Skanska Team conducted site visits and performed preliminary analysis on the proposed and existing outfalls to determine which ones need to be restored. We determined that 54 outfalls need to be restored.

Other highlights of the Skanska Team's outfall design for the Project are listed below:

- Stream restoration will be incorporated on outfall channels, which will meet outfall criteria as well as generating TMDL credits for VDOT's MS-4.
- Every location where ditch or pipe discharges flow from the ROW was checked for adequacy.
- Decreased discharge to NPS property.

Existing Culverts

We analyzed inspection reports for existing culverts and developed a plan for rehabilitating damaged culverts. We propose slip-lining and/ or trenchless technology for longer culverts and smaller areas of damage. We will rehabilitate damaged headwalls or endwalls using various concrete repair techniques.

We will avoid culvert extensions where possible using concrete barriers and barrier systems that enable the roadway to be widened without the fill slope impacting the existing headwall or endwall (Figure 4.4.7). We will use a construction technique for these elements that has been previously approved by VDOT.

Erosion Control During Construction

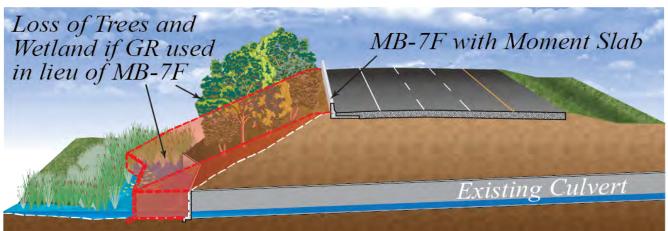
Potential sedimentation of Queens Creek from I-64 has caused concerns with the surrounding neighborhoods. The Skanska Team is committed to proactively performing erosion and sediment control (E&SC) measures during construction.

We will institute a full-time dedicated erosion control and maintenance crew during construction operations, reporting to the Responsible Charge Engineer (RCE). The dedicated crew will maintain and repair any erosion control devices in order to eliminate any possible issues before they arise and to support our high quality standards and commitment to the environment.

Maintenance

The Skanska Team's proposal reduces future VDOT maintenance with the following strategies:

- Maintenance-friendly SWM facilities
- Reduction in the number and size of SWM facilities
- A drainage system that limits the length of closed conduit and maximizes open channel and natural drainage channels



 Required Slope Widening and Culvert Extension if GR used in lieu of MB-7F with Moment Slab
 Existing Slope

Figure 4.4.7: Utilize a Concrete Barrier at Shoulder. Our design uses a moment slab and barrier system to widen the roadway without the fill slope impacting the existing headwall or wing wall.

Drainage Coordination with Utilities

The Skanska Team identified potential utility conflicts and mitigated them in our design. For example, our design completely avoids the sanitary force main adjacent to Colonial Parkway, resulting in less risk to the schedule and less coordination with local reviewers. Section 2.7.5 of the RFP requires the York County Sanitary Sewer Force Main to be relocated around proposed stormwater facilities with the constraint that the relocation must remain on VDOT right of way in the vicinity of the Williamsburg Battlefield area. Our design has positioned stormwater ponds to avoid this force main altogether while still remaining on proposed VDOT right of way; requiring no relocations of the force main due to stormwater pond placement.

4.4.3: Geotechnical

Approach to Identifying and Mitigating Geotechnical Risks

Our approach to identifying and mitigating geotechnical risks is critical to delivering this Project on time. We conducted a thorough validation of the RFP pavement designs, and a comprehensive review of the RFP Geotechnical Data Report (GDR), as-built bridge and roadway plans, traffic analysis report, survey files, and available public records including soil surveys and geologic mapping. This effort enhanced our understanding of potential construction impacts on the surrounding environment, residential communities, and existing infrastructure.

Coordination of Geotechnical Design Concepts and Construction Activities

For the Cold Central Plant Recycling Material (CCPRM), we will develop appropriate job mix formulas (JMF) for all reclaimed asphalt pavement (RAP) materials. We will construct a trial section to verify placement procedures and confirm the JMFs through QA/QC testing. This process will provide the best outcome through close coordination of design, construction, QA/QC and IA personnel from the RFP design to final design through construction and acceptance.

Our full-depth reclamation (FDR) process of using a reclaimer to process existing pavement materials into FDR subbase will include varying quantities of existing un-milled asphalt, subbase stone, and stabilized subgrade soils. For the widening portions of the Project, we will use crushed concrete aggregate or RAP materials that are placed, treated with cement and reclaimed into an FDR subbase material. JMFs will be designed for all materials used in the FDR processes.

We will use multiple JMFs to account for the variability of existing materials. Sampling, testing, and analysis of existing materials will guide the FDR design process during construction and determine the appropriate JMFs. In order to correlate the constituent quantities of pavement materials to the cement content required to meet final compressive strengths, we will use test data from the design process to reduce the risks of manufacturing FDR material that does not meet the performance requirements of the Special Provisions. This proactively addresses the risk of costly schedule delays associated with FDR rework and re-testing.

Due to the required overhead clearances at the Newman Road, Barlow Road, Merrimac Trail, and Queens Drive overpasses, the FDR process may be deepened below the current stabilized subgrade and into the underlying soils. While preparing the minimum design section required by the RFP, disturbance to the subgrade is allowed and will not affect SWM requirements if the disturbance stabilizes subgrades with cement or lime, thereby creating a non-erodible subgrade during construction. Additional JMFs may be required at these locations to determine the impact of native unstabilized soils on the FDR mix design.

Working in the Vicinity of Existing Foundations

We will use driven prestressed concrete piles as the foundation for Queens Creek and Lakeshead Drive bridges. When the design-level subsurface investigation is completed, we will refine the foundation design based on subsurface profiles and soil strengths obtained from in-situ standard penetration testing (SPT) and cone penetration testing (CPT) and lab testing of retained soil samples. We will perform drivability analyses and monitor driving stresses in the piles with PDA testing at select pile locations where design capacities can be verified in the as-built condition. We will use a composite foundation system of driven prestressed concrete piles and micropiles to provide a robust, constructible foundation to support the widened arch on the structure at Colonial Parkway. As-built plans indicate that the existing wingwalls are supported on a pile foundation battered towards the proposed widening. Our use of micropiles will avoid damage to the existing piles by allowing for installation of the new piles between the existing foundation.

Maintaining Existing Structures

The Skanska Team will provide vibration surveys and monitoring in areas where construction may threaten the integrity of nearby structures. We will refine foundation designs, if needed, following insitu SPT and CPT and lab testing. We will analyze drivability and monitor stresses in the piles with PDA testing in order to confirm design capacities and provide an as-built condition that fully verifies the design with actual field data. We will verify design lengths and sizes of the micropiles using static load tests.

The RFP Concept Plans indicate areas where sound barriers may be required. Our innovative use of micropile foundations for these walls will reduce impacts to adjacent properties and expedite the installation of the sound barrier. We will use "LPile" software to model the soil-structure interaction during final design.

Maintaining or Reconstructing Existing Slopes

The RFP Concept Plans recommend a large retaining wall in the median west of Queens Creek. By using safer median slopes and shifting the Queens Creek alignment 25 feet, our design reduces the height of the retaining wall and allows for the implementation of an MSE wall in this area. The Skanska Team anticipates that this type of wall will reduce the schedule and provide cost savings to VDOT, for both the initial construction cost and long-term maintenance costs.

We will use slope stability checks to construct critical temporary and permanent slopes (Figure 4.4.8) using conventional methods and probabilistic methods (where applicable) in order to ensure the safety of the roadway, work areas, and existing utilities.

Unlike many projects in the Coastal Plain, the available subsurface data on significant fill areas of the Project did not indicate soft, normally-consolidated clay soils and heavily organic soil deposits that generally undergo significant consolidation settlements. To confirm this conclusion, we will conduct additional soil borings and CPTs in areas of significant fill where settlement would typically be a concern.

In conjunction with pavement coring and CBR testing of the existing subgrades, we will perform a comprehensive geotechnical investigation in accordance with VDOT MOI Chapter III. This analysis will identify the extent and characteristics of unsuitable soils with high plasticity, organic, high moisture content and loose or soft properties. By identifying the location and properties of the materials early in the design phase, we can evaluate mitigation measures such as removal/ replacement, chemical stabilization, or moisture/ density manipulation to enhance schedule certainty.

We will supplement the soil borings with dynamic cone penetration (DCP) testing at and between



Figure 4.4.8: Reconstructing of Slope. The Skanska Team will use slope stability checks to ensure that the roadway, work zone, and utilities are safe and secured.

the boring locations to help identify soils that may require moisture or density manipulations during construction, defining problematic soils that may be detrimental to stable fill placement and proof rolling pavement subgrades during construction.

We will perform proof roll testing with loaded dump trucks to identify loose or soft fill subgrades prior to placing fill. If not detected prior to construction, these soils can lead to failing pavement subgrades during final proof roll testing. Early identification and mitigation of these soils can reduce schedule impacts associated with rework.

The Skanska Team is also evaluating the use of Intelligent Compaction (IC) technology to supplement proof rolling and nuclear density testing of subgrade and fill soils. This technology can allow us to evaluate and correct deficiencies in soils and asphalt compaction by measuring in real-time the energy response of the material being compacted by the roller.

We propose a thorough pavement condition survey in general accordance with FHWA Distress Identification Manual to identify the presence of failing subgrades resulting from loose/soft soils and high plasticity soils. We will conduct forensic ground penetrating radar (GPR) testing to determine the existing pavement thickness and identify anomalies in the pavement structure. We will correlate the results of the GPR survey to the existing core data in the GDR and to additional cores collected during our subsurface investigation. The results will allow the construction team to better quantify the existing pavement material's availability for recycling operations.

4.4.4: Quality Assurance/Quality Control

The Skanska Team's project specific Quality Management Plan (QMP) details the steps to ensure that the quality requirements for this Project are met. Our QMP clearly defines our quality management structure, including lines of authority and communication protocols that exceed the RFP requirements and VDOT's expectations.

Our quality management processes and our web-based information management technology differentiates our overall QMP from our competition. Our QMP will provide confidence in our Team's quality performance with minimal oversight from VDOT.

Approach to Design Quality Control and Assurance

Design quality management is led by the design manager (DM), with oversight from the designbuild coordinator (DBC), responsible charge engineer (RCE) and design-build project manager (DBPM), to confirm that the RFC (Released for Construction) plans are prepared in accordance with January 2012 QA/QC Guide. Our Team's design quality assurance manager (DQAM) is responsible for oversight of quality activities. Specifically, the DQAM will confirm that the design team follows the formal quality processes documented in the QMP. The DQAM will support the Quality Assurance Manager (OAM) with the information needed to confirm the design quality process follows the requirements of the Project Design Quality Control Procedures. We will implement the following formal design quality control requirements during design development:

- designer to develop project specific checklists (by discipline) and submit them to the DBC, RCE, DBPM, and the QAM for review and approval;
- milestone interdisciplinary coordination (IDC) reviews for each formal submittal;
- formal plan reviews by the discipline quality control officer prior to each formal submittal to the DBC, RCE and VDOT;

- confirmation by the DM and DQAM that discipline checklists are completed;
- complete quality assurance certifications by the DM, DQAM, and design discipline lead;
- documentation of compliance checklists, IDC reviews, and QC check-prints; and
- analysis and testing to develop mix designs that fulfill FDR and CCPRM requirements

Our QMP will include a series of coordination meetings lead by the DBC. These meetings will allow the construction team oversight and constructability input during design development and provide for "over-the-shoulder" reviews from VDOT and key stakeholders, as appropriate, prior to formal submittals.

QA/QC Procedures for One Unique Critical Design Element

Design and construction of the arches carrying I-64 eastbound and westbound over Colonial Parkway will present unique challenges, particularly tying into the existing arches.

Design of the Cast-In-Place Concrete Arch Widening

The Skanska Team's design approach involves using finite element modeling (FEM), as presented in Figure 4.4.9, to analyze the shortterm and long-term structural behavior of the existing concrete arch. We will use this information to design new widened portions that match the stiffness and geometry of the existing arch, as special care must be taken to ensure that foundation stiffness is compatible and that new foundations may be threaded through the existing wingwall's battered piles.

Our design will minimize the differential movements between the existing and proposed sections that are caused by differences in dead load, thermal strains at various stages of construction, etc. We will design measures that structurally tie the two sections together while not overstressing the existing arches, which will remain loaded throughout construction. A qualified design engineer will perform a peer review to validate all appropriate design

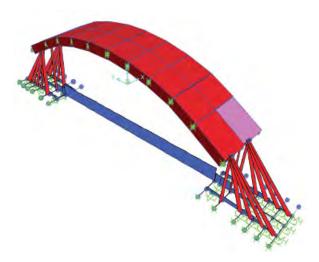


Figure 4.4.9: FEM Model of Colonial Parkway Arch. FEM modeling will help our team design and build a structure that is compatible with the existing arch.

considerations and ensure that the design meets the intent of the contract requirements.

Detailing of the Cast-In-Place Arch Widening Our Team will work closely with industry experts to install the architectural brick façades and ensure that the contract plans clearly and adequately show all brick-to-concrete attachment details. These measures will ensure that the finished product matches the existing structure and has a uniform and aesthetically pleasing appearance.

Approach to Construction Quality Control and Assurance

Right Sized Staffing

The Skanska Team will perform quality control and assurance testing as required by Table A-3 and A-4 of the January 2012 OA/OC Guide. We have evaluated each definable feature of work and its timeline in order to determine the correct number of inspectors and technicians needed to perform the inspections in accordance with the VTMs, MOIs sections and QMP checklists. On occasion, production crew schedules overlap and QC staff may become challenged to cover all items of work. We will allocate the necessary QC resources during our weekly production meetings to coincide with our crews and locations. This approach ensures that we meet the frequency of inspections and tests required while minimizing impacts to our schedule.

Table 4.4.2 provides our preliminary estimate of the staffing needed during the peak construction period from March 2019 to mid 2020.

Table 4.4.2: Anticipated Quality Management Staff at Peak

Positions	QC	QA
QC Manager	1	
QAM		1
Office Engineer	1	
Sr. Inspectors (am and pm)	5	2
Inspectors (am and pm)	6	3
Inspectors Specialty ITS	1	
Testing Technicians (am and pm)	7	4

Elements in Skanska QMP

The Skanska Team's QMP will meet or exceed the requirements detailed in the January 2012 QC/QA Guide and will be approved by VDOT prior to the start of work. Key elements are described below.

- Preparatory Meetings: Inspection and testing frequencies and details are discussed at these meetings, in addition to C-25s, JMFs, proctor results, repetitive deficiencies, lessons learned from prior phases of work, shop drawings, RFIs and the approved plans. These meetings are held prior to every new work activity, attended by all those who will come into contact with the work. Attendance by key VDOT representatives and IA staff is welcome and encouraged.
- Intermediate Inspections: These inspections will be performed on a continual basis according to the frequencies defined in the January 2012 QC/QA Guide. Inspection checklists will be used for each definable feature of work.
- Recurring Deficiencies and Deficiency Tracking: Our QMP specifically addresses recurring deficiencies by including a section in our preparatory meetings where recurring deficiencies are addressed for each definable feature of work, assuring VDOT that we are committed to continual improvement.
- Non-Conformance Reports (NCRs): NCRs will be issued and tracked for work that

does not meet the contract requirements. NCRs will be coordinated with the RCE and DBPM for resolution, and our NCR form will be modified to include this requirement. The QAM will ensure that no payments are approved for work identified on NCRs until resolution is achieved.

- C107 and MOT Inspections: Skanska's QMP requires the QCM to control the C107 inspection and correction process with oversight from the QAM. To ensure that required weekly inspections are performed and issues are resolved immediately, we will conduct joint inspections that include the Construction Manager (CM), QC and QA staff.
- FDR and CCPRM QC Plan: These processes will undergo the same scrutiny and QC/QA oversight per the Skanska QMP, with full QAM support to VDOT in the oversight of these work activities.
- Independent QA and QC Staffing: Skanska will provide independent QA and QC teams in order to offer VDOT the most effective program and experienced personnel.
- Issue Escalation Process: Skanska's QMP establishes a process for elevating testing results, staff disagreements, or other issues.

QA/QC Procedures for One Unique Construction Critical Element Full Depth Reclamation

Initial core samples will be in order to determine the JMF. These cores will be in the existing pavement no less than 2,500 linear feet for each lane, with six cores for each location. The EOR will determine the core locations by stationing and lanes and document the sampling results with the corresponding JMFs for each location. We anticipate that more than 30 JMFs will be required due to the variations in the existing pavement. Our QC team will ensure the proper material is placed in the locations as directed by the EOR and assist QAM in tracking which JMF is being placed at each location for their QA testing.

The EOR will be present during the trial section. This process will confirm the roller size and number of passes to achieve the required density that exceeds 97 percent of the target density. The required FDR technical representative will be present during mixing and placing FDR

operations for the trial section, as well as the first day of production, and as needed during the

FDR operations. In addition to field compaction testing, we will maintain a moist cure as required, and conduct final grading following the field compaction. In the event that any two consecutive densities result in less than 97 percent of the target density, the production will stop in order to allow for additional density tests to be performed. The EOR will require a number of samples be taken in order to run complementary proctors. Based on those results, the EOR may make adjustments to the JMF for a given area or require additional forensic investigation.

Cold Central Plant Recycling Material (CCPRM)

The production of CCPRM follows standard asphalt placement techniques with the exception of set-up speed. QC inspectors will perform density testing that includes a field proctor that meets 98 percent of the maximum theoretical density. Then a CCPRM roller pattern and control strip is performed. It is not uncommon to experience difficulties driving the nuclear gauge pin for the DTM, which can cause disruption to the aggregates if the CCPRM sets up prior to the technician performing the test. The aggregate disruption causes false, low readings on the nuclear DTM testing. As a contingency plan, our QC team will obtain core samples should the DTM prove too difficult to use per the

EOR's approval. In order to confirm density and thickness, we will obtain cores and field samples at the frequency specified for asphalt pavement placement in the January 2012 QC/QA Guide. As defined in the Special Provisions, we will place a 1,000 linear ft. trial section prior to production. A CCPRM Technical Representative meeting the requirements in the Special Provisions will be on site for a second trial section if required.

Quality Information Management System (QIMS) and Processes

At the center of our QMP is an integrated, web based information management system that encompasses design and construction quality management requirements, as depicted in Figure 4.4.10. Skanska's Quality Assurance subconsultant, KCI, has developed a proprietary 'app' for QA/QC inspections and to generate and transmit IDRs, testing results, progress photos, and sketches electronically. KCI has developed a Mobile Field Services (MFS) application for tablet devices to record pertinent site information that is uploaded to a cloudbased central data repository. It includes drop down menus with specific features of work and construction activities that are coordinated with the construction schedule.

Integrated with Skanska's QMP processes, this technology will improve efficiency of our inspection staff; increase accuracy in reporting; and simplify the tracking of materials tests, proctors, JMFs, inspections, deficiencies and rework items as required by the January 2012 QA/QC Guide. Our system provides a transparent view of field operations between the QA and QC staff for VDOT, building credibility and trust in our ability to meet quality requirements.

QAM Authority and DBPM Support: The QAM reports directly to our DBPM and will be on-site for the duration of construction. The QAM will collaborate with the DBPM to resolve deficiencies, NCRs and other issues. The following unique approaches assure VDOT of our commitment to quality:

- weekly meetings with the DBPM to discuss progress made toward resolution of issues;
- joint inspections with CM, QC inspectors, QA inspectors, and IA inspectors on a weekly basis, enabling all parties to gain a common understanding of the challenges and an agreed-upon solution; and
- coordination of issues that may require redesign work by the RCE, DBC, Engineer of Record (EOR) and the QAM.

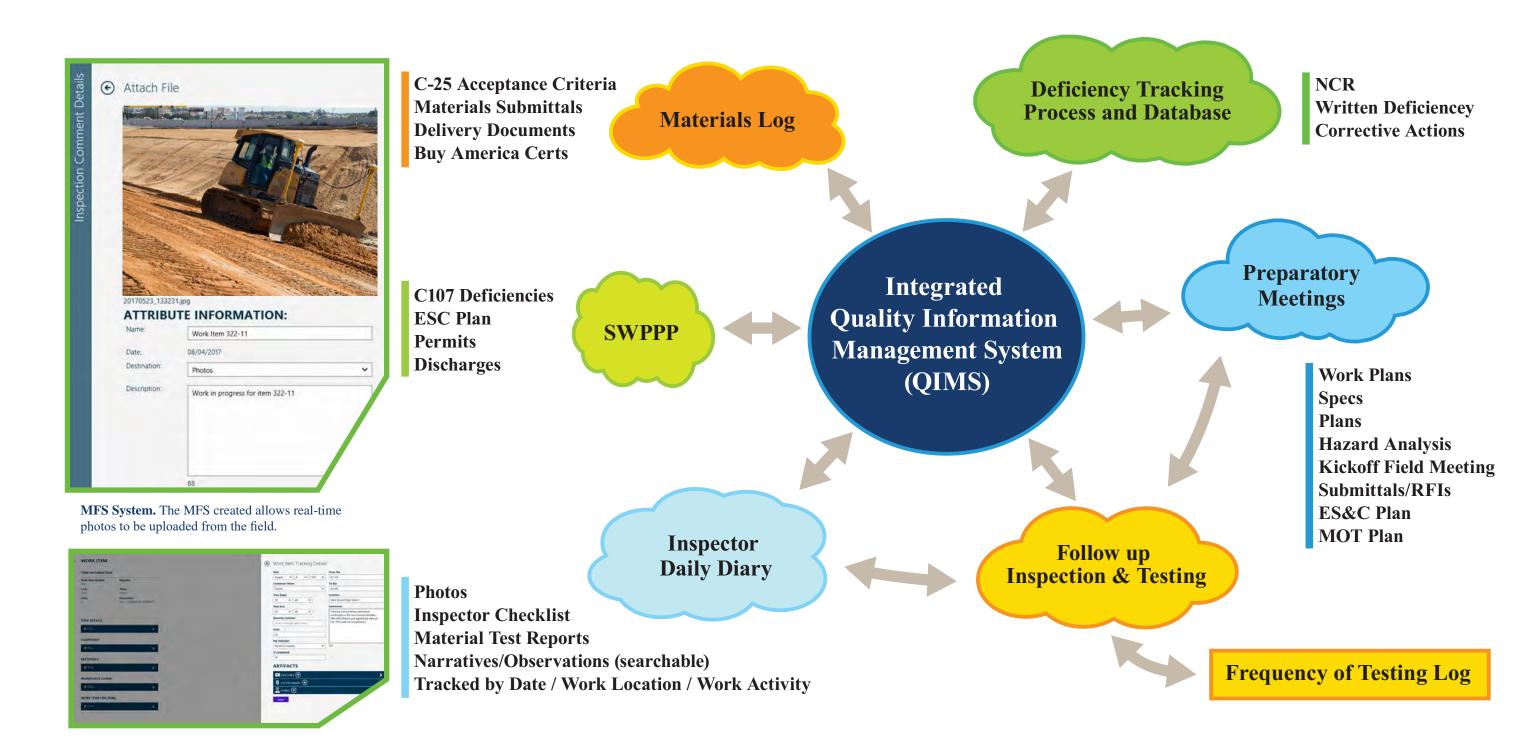


Figure 4.4.10: Integrated Quality Information Management System (QIMS). Our QIMS will improve inspection efficiency, increase reporting accuracy, and streamline tracking.

Virginia Department of Transportation -I-64 Capacity Improvements, Segment III – 4.4. Project Approach

4.5 Construction of the Project



4.5 Construction of the Project

SKANSKA



Table 4.7.1: Summary of Utility Impacts

Concept	Benefits
 Sequence of Construction Two-phase roadway construction approach Alternating work zone cells and pull-off cells Three-phase Queens Creek bridges construction approach Access trestle featuring 40-foot span lengths strategically positioned 	 Makes best use of existing recyclable pavement materials Reduced construction schedule Optimal level of public safety support between one-mile construction work zones Safer approach with crews performing more productive and repetitive work in close proximity to supervision Flexibility to allow some areas to advance to the next phase, maintain overall progress Allows construction of proposed Queens Creek bridges from a single trestle location 15-foot wide channel maintained for local watercraft at Quuens Creek through all construction phases Permit 'friendly' construction approach
 Transportation Management Plan Robust public outreach plan to keep travelers informed Application of SMART ZONE System technologies 12-foot lanes maintained (TMP) Nighttime construction zone using lane closures Safer to operate during construction MOT trucks and traffic control equipment 	 Reduced disruption and careful accommodation to the high volume of truck traffic in the corridor Safety and mobility enhancements for all travelers passing through construction Improved driver visibility at night Clear and consistent messaging Better safety for the collective construction and inspection personnel working on site

The Skanska Team will successfully deliver this critical segment of I-64 for VDOT by meeting the overall objective to increase capacity and mobility while improving corridor safety and operations. I-64 carries over 74,000 vehicles per day with nine percent of the volume representing truck traffic, making the Capacity Improvements to the I-64 Segment III one of VDOT's highest priorities in the Hampton Roads District.

Our Team will use an integrated approach to work in partnership with VDOT and local stakeholders to achieve the following project priorities:

- maintain the safety of the traveling public and minimize construction impacts;
- provide an efficient design that meets or exceeds the RFP's requirements;
- the appropriate level of VDOT oversight;
- implement cost-effective construction means and methods; and
- manage all aspects of the Project to minimize risk and successfully deliver a quality facility on time to VDOT.

We have strategically located staging/storage areas and access points to minimize impacts to the traveling public. We will develop alternative routes around the work zones and coordinate them with local authorities and first responders before implementation. Prior to every traffic shift, we will provide media notices and opportunities for community briefings and other measures which will be further detailed in the Public Information and Communications Plan, administered by our DBPM.

Skanska specializes in providing state-of-the-art visualizations of construction sequencing in order to clearly communicate plans long before starting work. By sharing 3D and 4D schedule models with VDOT and relevant stakeholders, we can provide insight into our construction plans and progress. Stakeholders will be invited to attend our four-week look ahead scheduling meetings when construction activities .when construction activities will impact Key Stakeholders such as Camp Peary, Waller Mill Reservoir, Queens Creek, Queens Lake Association, Creekside Landing, Felgates Woods, NPS, various utility owners, and adjacent contractors.

This Project's high volume traffic conditions present inherent safety risks to the traveling public and our workers. With tight workspaces and nighttime work, safety awareness on this Project and our emphasis on an Injury Free Environment® (IFE) is critical. IFE is part of Skanska's corporate culture (Figure 4.5.1), and centers around the belief that safety is a value not to be compromised by cost or schedule.



Figure 4.5.1: Injury Free Environment. Skanska's company-wide safety culture makes safe working practices the responsibility of all Team members.

We will develop a construction work plan for each construction activity, which will include the safety hazards, environmental concerns, and quality requirements associated with the specific task. We will hold a preparatory meeting to review the work plan before starting any critical activity, such as traffic shifts, beam setting, FDR, etc. VDOT personnel are encouraged to be involved in the formation and review of these work plans. The work plans are used in daily job briefings at the start of each shift to ensure crew members understand the safety, environmental, and quality aspects of the upcoming task. We will use the improvement process depicted in Figure 4.5.2 on page 34 to strive for continuous improvement.



Figure 4.5.2: Plan, Do, Check, Act. Skanska uses a cycle of continuous improvement as the framework for successful project performance and sharing lessons learned.

The Skanska Team has developed a detailed approach and construction means and methods to gain VDOT's confidence that we can successfully deliver a high quality project ahead of schedule, with minimal impacts, and at the lowest possible cost.

4.5.1: Sequence of Construction

Our approach to construction sequencing incorporates the proposal schedule, detailed construction activities, competent personnel, and specific safety and quality requirements and goals. We will develop and execute work plans for each task to ensure the means and methods for each element of the Project meet contract requirements, including:

- Scope of work
- Safety
- Environment
- Quality
- Plans and specifications
- Task-specific procedures

Considerations for Public Safety

The Skanska Team will use new processes and tools to optimize the design and construction schedule, as well as to enable our crews to plan and visualize the upcoming tasks. The implementation of Building Information Modeling (BIM) with 3D and 4D models into our construction approach allows us to make accurate simulations that improve safety, construction planning, and the quality of the work. The use of BIM builds certainty into our design and construction schedule and helps us mitigate risks at the earliest stage possible.

Our Concept and Benefits table on Page 32 highlights innovative concepts that Skanska will implement to maintain safety and minimize traffic impacts during construction.

Measures to Limit Disruptions to Traffic Through the Work Area

Our Team offers VDOT a proven track record of pairing a constructible design with a methodically planned construction approach. Our sequence of construction is designed to limit planned disruptions and to mitigate unplanned ones. Short-term stoppages for intersection and ramp tie-ins will be included in our construction work plans, as will detour routes, advance notification to the public and affected stakeholders (including drivers, bicyclists and pedestrians).

We will use defined staff roles and consistent communication protocols with VDOT and agency officials to solidify a high level of trust and understanding with all parties.

We will address adjacent public transportation facilities to implement detours and closures. We will use various forms of media, including local newspapers, mobile device applications (apps), VMS boards, corridor signing, in our public awareness campaign. These effective public engagement methods will provide information necessary to limit disruptions to stakeholders.

General Sequence of Construction

Outlined below is a general description of our sequence of construction required to complete the project by September 23, 2021. Greater detail is provided in Section 4.7 Proposed Schedule.

Prior to Notice to Proceed (NTP), our Team will work to prepare permit applications and work plans encompassing a robust scope validation process to ensure our design includes the most accurate existing information possible. Our designers will begin to develop ROW, roadway, and structures plans, while concurrently pursuing the Project's permits.

We will divide the Project-wide design into consistent packages for efficiency, using four key elements:

- 1. ROW
- 2. Roadway
- 3. Structures
- 4. Environmental permitting

Roadway Sequence of Construction (SOC)

Our Team has identified three construction "areas", based on similarities in the existing conditions and similar MOT, as depicted in Figure 4.5.3 on page 37.

- Area A Start of Project to Route 143
- Area B Rte. 143 to Queens Lake Drive
- Area C W. Queens Drive to Project limit

Identifying these areas allows our team to effectively manage the schedule, traffic, our craft workers, the equipment resources, the material staging and our subcontractors. We have further subdivided these areas into "cells" approximately one mile in length, which will allow us to implement our innovative Alternating Cells Production System with pull-off cells between the work cells. Work in each of the 11 cells has been sequenced to achieve the most cost-effective material recycling plan and most productive construction environment for our crews.

Roadway work will be accomplished in two basic SOC Phases. During SOC Phase 1, we will strengthen the outside shoulders and use temporary pavement markings to shift traffic outward and onto the existing outside lane and strengthened shoulder. We will install temporary barrier wall only adjacent to the active work cells. Work in cell for the eastbound and westbound directions will happen concurrently in the median. As work in each cell is completed, temporary barriers are moved to the next area until the alternating cells are complete. The process is repeated until the Project is complete. This sequencing pattern always provides the approximately one mile emergency pull-off cell between the two active work zones.

We will optimize safety and mobility for the traveling public by avoiding working in two adjacent cells at the same time in order to provide the necessary motorist pull-off space every mile. Once traffic is shifted, we will demolish the existing inside shoulder and the remaining lane, install the inside underdrains, fine-grade the subgrade for the new left lane and full width shoulder, and install the new pavement section for both eastbound and westbound I-64.

Phase 2 repeats the pattern in Phase 1, except now for the outside lane construction. We will install temporary barrier along the active work areas only with pull-off cells between the active work zones as presented in Figure 4.5.3. We will recycle the existing pavement (concrete or asphalt) for use in the new pavement, and install 12 inches of FDR in-place. This introduces cement into the existing aggregates and soils where the mixture will be pulverized, stabilized and compacted in-place, providing a base for the new pavement section. The new pavement section can then be installed with the exception of final surface. Following pavement installation, we will install guardrail systems and sign structures. Once all the outside lane construction is complete, we will remove the temporary concrete barrier in preparation for the final pavement surface course, any finish work, and landscaping. Traffic will then be placed into the final configuration, requiring us to perform final surface paving and permanent pavement marking applications using nightly lane closures. Our previous experience constructing interstate highways in the Hampton Roads area includes projects like the I-264 Widening/MLK Extension Design-Build Project and HOV Projects on both I-64 and I-264. We have applied lessons learned from these projects to develop our sequencing plan.

Our SOC minimizes impacts to traffic, the existing ITS system, ROW needs, environmental impacts, and maximizes the salvage opportunities for in-place roadway material and guardrail. We will install temporary asphalt pavement at the ramps with adjustments to the acceleration and deceleration lanes to provide access to the mainline roadway.

Bridge SOC

The Skanska Team carefully planned the bridge sequencing at each location. Some key advantages to our proposed sequencing at Queens Creek include:

- single installation of temporary trestle between the I-64 eastbound and westbound bridges directly adjacent to the existing eastbound bridge;
- reduction in temporary environmental impacts as both bridges are constructed from the same trestle; and
- new I-64 eastbound bridge is shifted 25 feet south of the location presented by VDOT on the RFP Plans, providing:
 - better alignment of eastbound traffic onto the bridge
 - crossovers using new pavement constructed for the final I-64 alignment
 - better construction access and material delivery during the construction of both bridges and less interaction of construction traffic with the traveling public

Designing for Optimal Sequencing

Our SOC methodology, (presented in Figure 4.5.3, Page 37) considered a combination of constraints such as design packages, wetland impacts, permits, existing bridges, and innovative ways to recycle materials from the existing roadway. Our SOC advances certain cells within our MOT Plan to maintain our CPM schedule through the phases.

The following pages outline our roadway SOC in detail by MOT phase for Areas A,B, and C (Figures 4.5.4, 4.5.5, 4.5.6). Our early use of BIM during the proposal and design stages allows us to identify and mitigate clashes in various aspects of our design and helps reviewers visualize an integrated design, minimizing construction risks.

We will conduct a series of pre-application meetings to proactively mitigate issues prior to construction that will include, but not be limited to, the following parties, in addition to VDOT:

- Utility agencies
- Environmental permitting agencies
- Other key Project stakeholders

Our schedule provides a reasonable construction timeframe with appropriate allowance for weather and unknown delays. It allows for true collaboration and partnering to deliver a Project that meets VDOT's goals. This early coordination will give VDOT additional confidence in our overall CPM schedule.

Our SOC approach enhances public safety by minimizing egress/ingress conflicts between construction traffic and I-64 traffic, minimizing traffic shifts to ease driver confusion, eliminating unnecessary traffic weaves within the work zones for a more uniform driving experience and a focused public outreach providing updated traffic conditions.

The VDOT ITS system will remain fully operational during construction. Our SOC approach maximizes productivity while also providing emergency pull-off cells every mile during construction. As work advances, new portions of roadway can be made available for additional pull-off space to enhance safety and mobility as work progresses toward completion.

Alternating Cells Production System

Safety: The mile-long barrier openings will be used as pull-offs for incident and EMS response.

Economy: Crews work in assigned cells, promoting lineal construction strategies. Each cell is scheduled in order to optimize hauling distances and cycle times.

Environmental: Our Sequence accounts for environmental permits constraints, allowing for early starts in non-critical areas.

Recycling: The crucial re-use of existing materials is essential to mitigate market risk. We will demo existing roadway in one cell, process it and ship it to its destination cell for incorporation back into the project. We have sequenced our schedule to promote a sustainable solution for the entire corridor, a credible schedule, and a low cost solution.

Quality: Along the corridor we will encounter varying make-up of existing pavement and will be able to design the proper job mix formula for each section.

Risk Mitigation: To mitigate impacts of unexpected issues our plan provides opportunities

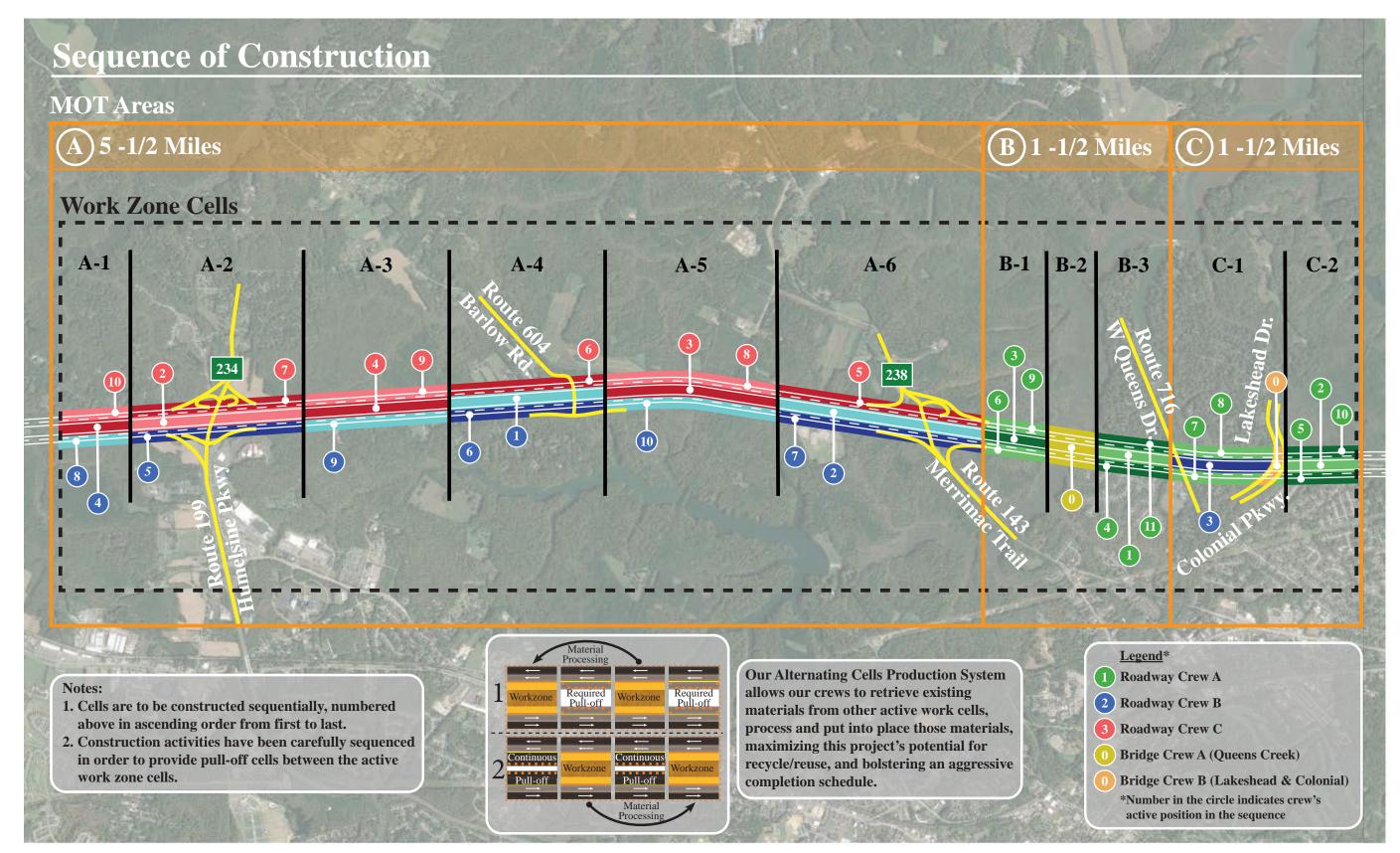
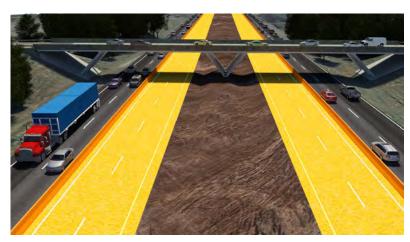


Figure 4.5.3: Project Sequencing Overview. The Skanska Team has divided the Project into three areas, each with distinct "cells" to optimize construction productivity, enhance safety for the public, and maximize the Project's potential for recycling existing materials.

Virginia Department of Transportation -I-64 Capacity Improvements, Segment III – 4.5. Construction of Project



Shoulder Strengthening



Phase 1



Phase 2

Figure 4.5.4: Phase 1 and 2 Roadway Sequencing.

Phase 1

The main objective of Phase 1 is to strengthen the shoulders using nightly lane closures and begin the permanent construction of the widening toward the median of I-64 applying our innovative Alternating Work Zone Production System.

- A. Establish work zones and signing per MUTCD and VDOT Standards
- B. Set up MOT for single lane closure
- C. Establish emergency vehicle pull-off areas
- D. Construct outside shoulder strengthening, mill/resurface under nightly lane closures
- E. Shift traffic to outside lane and strengthened shoulder
- F. Set up Alternating Work Zone Cells in Stage 1 at locations at presented on Figure 4.5.3
- G. Install temporary barrier at work zone cells with Cat 325s, flatbed trucks, barrier wall clamps
- H. Clear and grub the area within the work zones, 2 crews with track tree cutters, grinders
- I. Install erosion control measures, 2 crews initial install, plus maintenance crew
- J. Relocate existing ITS facilities, trenched using a 300-series hydraulic excavator
- K. Construct work zone access and haul roads with 120 series blade
- L. Remove existing pavement material for recycling with Wirtgen W200i Cold Mill or similar
- M. Excavate proposed roadway, median and Ponds with D6Dozer, Cat330, 20tn Off-Road Dump Trucks. On-Road Trucks limited to disposal of materials off site
- N. Install temporary drainage primarly in the I64 Median (inlets, culvert extensions)
- O. Install permanent drainage utilizing series 300 Excavator, walk-behind compactors
- P. Install temporary pavement to accommodate ramps
- Q. Construct full depth reclamation (FDR)
- R. Install cold control plant recycling material (CCPRM)
- S. Lay asphalt paving, up to 3 crews
- T. Install guardrail as shown in the plans, average 2 crews
- U. Advance to Alternating Work Zone Cell Stage 2

Phase 2

The main objective of this phase is to switch traffic to the completed inside widened mainline and shoulder and begin the permanent reconstruction of the existing lanes and outside portion of I-64.

- A. Shift traffic to newly-constructed inside lane and shoulder
- B. Establish emergency vehicle pull-off areas
- C. Set up Alternating Work Zone Cells in Stage 1at locations at presented on Figure 4.5.3
- D. Install temporary barrier at work zone cells
- E. Clear and grub the area within the work zones, 2 crews with track tree cutters, grinders
- F. Install erosion control measures, 2 crews initial install, plus maintenance crew
- G. Construct work zone access and haul road
- H. Excavate remaining ponds with D6Dozer, Cat330, 20tn Off-Road Dump Trucks.
- I. Remove existing pavement material for recycling with Wirtgen W200i Cold Mill or similar
- J. Maintain temporary drainage (inlets, culvert extensions)
- K. Install remaining permanent drainage with series 300 Excavator, walk-behind compactors
- L. Construct full depth reclamation (FDR), 2 crews
- M. Install cold control plant recycling material (CCPRM), 2 crews
- N. Lay asphalt paving, up to 3 crews
- O. Install pier protection if required
- P. Install guardrail, average 2 crews
- Q. Install ITS, trenched using a 300-series hydraulic excavator, and final signage
- R. Advance to Alternating Work Zone Cell Stage 2

Final Work:

Final work will be performed under nightly lane closures and will include: Shift traffic into final configuration Install asphalt surface course, up to 3 crews Install permanent pavement markings Punch list and final clean up

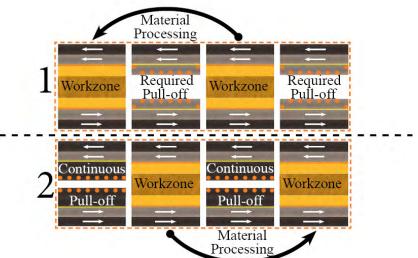
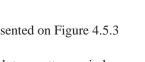


Diagram of our Alternating Work Zone Production System uses an innovative sequence of work to take full advantage of the existing materials on site, minimizing the amount of materials our Team will need to purchase at the beginning of the Project, and sell at the end of the Project, providing a more date-certain schedule and lower price.

Sequence of Construction - Full-Depth Reclamation (FDR):

- pulverization to be 2 inches or less.



 Investigate existing pavement materials: Take samples of the existing pavement structure and subgrade materials to the desired depth of reclamation and tested by a qualified materials laboratory to determine the required amount of cement to be added.

Reclaim existing pavement: Remove existing pavement materials for recycling. Pulverize existing pavement to the desired depth using a reclaimer. The maximum particle size after

• **Rough grade:** Rough grade the base and make ready for addition of cement.

• **Spread cement:** Using a spreader that is calibrated to deliver the specified amount of cement, and check spread rate in the field by QC and QA technicians.

• Mix: Make a second pass with the reclaimer to mix the cement and pulverized base applying water to bring the final mixture to the appropriate moisture content a.

 Compact and fine grade: A sheepsfoot roller will be used to compact the reclaimed mixture. To achieve deep compaction while maintaining the desired elevation. Once initial compaction is achieved a motor grader and a vibratory steel drum roller will complete the fine grading operation and provide the final surface.

Phase 1



Phase 1



Phase 2



Phase 3

Figure 4.5.5: Phase 1, 2, and 3 Queens Creek Bridge Sequencing.

Construct enough of the new westbound I-64 bridge over Queens Creek to allow eastbound traffic to switch to the inside portion of the new westbound structure.

- A. Establish work zones and signing per MUTCD and VDOT standards
- B. Set up MOT for single lane closure
- C. Establish emergency vehicle pull-off areas
- D. Install temporary barrier at work zone cells
- E. Install erosion control measures
- F. Construct work zone access and haul road
- G. Excavate and rough grade proposed roadway and median
- H. Install temporary barrier at work zone cells with Cat 325s, flatbed trucks, barrier wall clamps
- I. Install erosion control measures, 2 crews initial install, plus maintenance crew
- J. Construct work zone access and haul roads with 120 series blade
- K. Excavate and rough grade roadway and median with D6Dozer, Cat330, 20tn Off-Road Dump Trucks.
- L. Install permanent drainage utilizing series 300 Excavator, walk-behind compactors.
- M. Install temporary crossovers
- N. Final grade proposed roadway and median with D6Dozer, Cat330, On-Road Dump Trucks.
- O. Construct roadway pavement sections at bridge approaches
 - a. Construct portion of westbound bridge
 - Install sheetpile at Queens Creek abutments with 150TN crane b.
 - c. Excavate and grade abutments A and B for westbound bridge
 - Construct trestle for bridge construction using 300TN crawler crane d.
 - e. Construct westbound bridge per Structures Plans
 - f. Drive test piles and production piling, pier caps with 300TN and 150TN cranes
 - Install girders, back walls, form and pour bridge deck with 300TN and 150TN cranes g.
 - h. Install approach slabs, parapets, groove deck

Phase 2

Construct the new eastbound I-64 bridge over Queens Creek.

- A. Shift eastbound traffic to newly-constructed inside portion of the westbound bridge using the two temporary crossovers
- B. Establish emergency vehicle pull-off areas
- C. Install temporary barrier at work zone cells with Cat 325s, flatbed trucks, barrier wall clamps
- D. Install erosion control measures, 2 crews initial install, plus maintenance crew
- E. Construct work zone access and haul roads with 120 series blade
- F. Install remaining permanent Drainage with series 300 Excavator, walk-behind compactors.
- G. Install temporary crossovers
- H. Construct pavement sections at bridge approaches
- I. Construct new eastbound bridge
 - a. Demolish existing eastbound bridge with 300TN and 150TN cranes, and 300 excavator
 - b. Install support of excavation for Queens Creek Bridge abutments using 150TN crane
 - c. Excavate and grade abutments A and B for eastbound bridge
 - Construct Phase 1 eastbound bridge per Structures Plans d.
 - e. Drive test piles and production piling, pier caps with 300TN and 150TN cranes
 - f. Install girders, back walls, form and pour bridge deck with 300TN and 150TN cranes
 - g. Install approach slabs, parapets, groove deck

This phase will construct the remaining portion of the westbound I-64 bridge, and shift traffic into the final configuration for installation of final pavement and markings.

- A. Shift eastbound and westbound traffic to the newly constructed eastbound bridge B. Demolish remaining westbound bridge
- C. Drive test piles and production piling, pier caps with 300TN and 150TN cranes
- E. Install approach slabs, parapets, groove deck
- F. Complete remaining pavement sections, up to 3 crews
- H. Place final asphaltic concrete surface course, up to 3 crews
- I. Install permanent pavement markings
- A. Punch list and final cleanup



Our 25-foot alignment shift of the eastbound I-64 bridge over Oueens Creek allows our Team to construct all three phases of the bridge with the access trestle in a single position. This innovative constructible design provides for fewer temporary environmental impacts, and eliminates the time it takes to relocate the trestle every phase, bolstering schedule certainty. For a more detailed explanation of our sequence of construction of the proposed Queens Creek bridges, please refer to Figure 4.7.5 in Section 4.7 Proposal Schedule.

- D. Install girders, back walls, form and pour bridge deck with 300TN and 150TN cranes
- G. Shift eastbound and westbound traffic to final configuration

Phase 1

Shoulder Strengthening



Phase 1



Phase 2

Figure 4.5.6: Lakeshead Drive and Colonial Parkway Bridge Sequencing.

This phase will begin the permanent construction of the inside widening of I-64, including the Lakeshead and Colonial Parkway bridges.

- A. Establish work zones and signing per MUTCD and VDOT standards
- B. Set up MOT for single lane closure (eastbound and westbound)
- C. Establish emergency vehicle pull-off areas
- D. Construct outside shoulder strengthening
- E. Shift traffic to outside lane and strengthened shoulder
- F. F. Install temporary barrier at work zone cells with Cat 325s, flatbeds, barrier wall clamps
- G. Clear and grub the area within the work zones, 2 crews with track tree cutters, grinders
- H. Install erosion control measures, 2 crews initial install, plus maintenance crew
- I. Construct work zone access and haul roads with 120 series blade
- J. Excavate and rough grade roadway and median with D6Dozer, Cat330, 20tn Off-Road **Dump Trucks**
- K. Install temporary drainage primarily in the I64 Median (inlets, culvert extensions)
- L. Install permanent drainage utilizing series 300 Excavator, walk-behind compactors
- M. Relocate existing ITS facilities, trenched using a 300-series excavator
- N. Final grade proposed roadway and median
- O. Construct roadway pavement sections at bridge approaches
- P. Install guardrail as shown in the plans, average 2 crews

Lakeshead Drive Bridge:

- a. Remove parapet and existing portion of deck from median side of existing bridges
- b. Perform bearing replacement under existing beams using temporary lane closures
- c. Remove bridge deck expansion joints and replace deck slabs using temporary lane closures
- d. Construct proposed bridge widenings

Colonial Parkway Arch Bridge:

- a. Remove existing portions of abutments, railing and spandrel wall
- b. Construct proposed bridge widening outside of traffic (see diagram at right)
- c. Install single lane operations on Colonial Parkway under the bridge construction
- d. Construct proposed substructure elements across Colonial Parkway, temporarily patch
- e. Cast in place proposed concrete arch
- Re-open Colonial Parkway to existing number of lanes
- Replace remaining portions of the existing Colonial Parkway

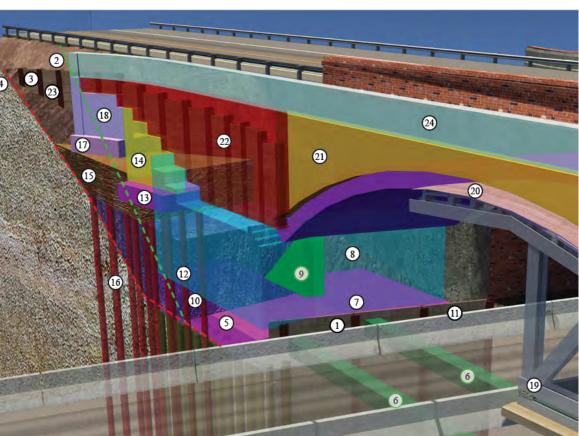
1. Install SOE Abutment A

- 2. Excavate to Stage 1
- 3. Install SOE Abutment B

- 24. Place barrier

Virginia Department of Transportation -I-64 Capacity Improvements, Segment III -4.5. Construction of Project

Diagram of 24 planned steps for Colonial Parkway arch bridge



B. Establish emergency vehicle pull-off areas

Phase 2

- clamps
- D. Install erosion control measures
- F. Install remaining permanent drainage

Lakeshead Drive Bridge:

Final Work:

- Shift traffic onto final configuration
- Install asphalt surface course, up to 3 crews
- Install permanent pavement markings
- Punch list work and final clean up

4. Excavate to Stage 2 5. Install 1st level piles

- 6. Install Arch tie through SOE A
- 7. Place 1st level footing
- 8. Place 1st level wall
- 9. Place counterfort
- 10. Backfill 1st level
- 11. Remove SOE A
- 12. Install 2nd level piles
- 13. Place 2nd level footing
- 14. Place 2nd level wall
- 15. Backfill 2nd level
- 16. Install 3rd level piles
- 17. Place 3rd level footing
- 18. Place 3rd level wall
- 19. Install formwork

- 21. Place wall over arch
- 22. Place wing wall

The main objective of this phase is to switch traffic to the completed inside widened mainline and shoulder and begin the permanent reconstruction of the existing lanes and outside portion of I-64.

A. Shift traffic to newly-constructed inside lane and shoulder C. Install temporary barrier at work zone cells with Cat 325s, flatbed trucks, barrier wall

E. Construct work zone access and haul road with 120 series blade G. Construct pavement sections at bridge approaches

a. Perform existing deck patching and overlay b. Extend deck slabs over backwalls c. Place new concrete overlay on existing deck

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Our Team understands the emphasis that VDOT places on the safety of the traveling public and the collective construction and inspection work force. As an industry leader in safety, Skanska will maintain a work culture where safety is a value that will not be compromised by cost or schedule.

Safety and Operations

Averaging 50 million man-hours per year, Skanska has refined its safety culture at every level of the company, as demonstrated by the program highlights listed below.

- An IFE mindset that ensures safety accountability for our supervisors and those around them.
- Skanska empowers all employees, regardless of role or title, to stop work at any time if they are concerned about safety.
- Due to the MOT required on this Project, our senior management team, including Mr. Salvatore Taddeo, the Executive Vice President at Skanska, will personally inspect the safety of this Project's operations regularly.
- Skanska's executives conduct more than 1,200 formal safety inspections on our projects every year as part of our commitment to visible leadership.
- Skanska conducts the world's largest workplace safety campaign with our annual Safety Week, and our IFE website (www. injuryfreeenvironment.com) educates the industry on our safety approach.

Coordination meetings include top field management from Skanska, subcontractors, QC and QA leads; VDOT and their IA inspection leads are encouraged to attend (Figure 4.5.7).

Our daily superintendent coordination meetings begin by addressing safety concerns brought forth from the previous day. We then coordinate the efforts of multiple crews working in close proximity of each other sto ensure a safe work environment.



Figure 4.5.7: Daily Coordination Meetings. As with every Skanska project, workers on our I-4 Ultimate Project in Florida conduct morning safety meetings daily prior to commencement of work.

Our crews conduct daily toolbox talks (Figure 4.5.8) to communicate our safety plans for each work activity to all who are involved in the operation. If conditions change, crews stop work, change the work plan and conduct another toolbox talk to communicate the change prior to commencing work.



Figure 4.5.8: Toolbox Talks. Skanska uses daily Toolbox Talks to communicate information to crews on a variety of topics pertinent to safety of personnel, the public, and the environment.



Figure 4.5.9: Work zones and Pull-Off Cells. Our SOC uses alternating mile-long work cells to advance construction, optimizing efficiency, working conditions, opportunities for recycling pavement materials, quality control, erosion control, and public safety.

During Phase 1, once the existing outside shoulders are strengthened, we will install temporary concrete barriers in accordance with the VWAPM in order to protect motorists from the median work-zones, as shown in Figure 4.5.9.

Logistics and access on this Project will be addressed each day with our crews to ensure that construction advances with minimal impacts on I-64 mobility, adjacent transportation facilities, or surrounding neighborhoods.



Figure 4.5.10: Innovative Median Access Ramp Concept. By decreasing reliance on I-64 for deliveries, we have greater control of the delivery schedule and can offer first responders alternatives to reach incidents blocked by traffic backups.

With VDOT's approval, our proposed innovative median access ramp concept, presented in Figure 4.5.10, will allow deliveries to the Project to enter and exit the job site with minimal reliance on I-64. To achieve this, we will build temporary median ramps at existing overpasses, such as Route 199/646 (Newman), Barlow Road, Merrimac (Route 143), and Queens Lake Drive.

This approach will increase schedule certainty to offer VDOT a more predictable final acceptance date, as well as options for emergency crews responding to daily vehicular incidents on this congested corridor.

Well-planned access and egress will avoid delays to our concrete, aggregate, earthwork, asphalt and other critical deliveries caused by backups on I-64.

Geotechnical Constraints

Since the existing pavement and subbase materials will be excavated in order to meet VDOT's requirement to gain additional clearance beneath the Project's four existing overpasses, our design incorporates recycled concrete in lieu of FDR on existing roadways in these areas. This is reflected in our CPM proposal schedule in Section 4.7, and this work will be performed concurrently with the FDR.

Our CPM schedule also incorporates mitigation activities for unsuitable subgrade materials by placing suitable backfill prior to construction of the subgrade and pavement section.

Section 4.4.3: Geotechnical detailed our approach to identify and confirm problematic soils during the design phase that may require moisture or density manipulations during construction. We will perform proof roll testing with loaded dump trucks during construction to identify loose or soft fill subgrades prior to placement of embankment. These soils can lead to failing pavement subgrades, so identifying them early and removing or conditioning them prior to constructing the pavement section proactively mitigates schedule impacts associated with rework.

The Skanska Team is evaluating the use of Intelligent Compaction (IC) technology to supplement proof rolling and nuclear density testing of subgrade and fill soils. This technology can allow us to evaluate and correct deficiencies in soils and asphalt compaction by measuring the energy response of the material being compacted by the roller in real-time.

Environmental Impacts

The Skanska Team will generate and adhere to the best practices put forth in our E&SC Plan. We will monitor and correct soil stabilization as required by the plan and applicable regulatory agencies, using methods such as the ones pictured in Figures 4.5.11 and 4.5.12.

During field reviews, our Team will discuss upcoming land disturbing activities, monitor field conditions, complete project documentation, and ensure that adequate erosion control features are installed and functioning properly.



Figure 4.5.11:Check Dams. This mitigation measure is effective in small channels with a contributing drainage area similar to those on the I-64 Segment III Project.



Figure 4.5.12: Temporary Sediment Traps and Inlet Protection. We will install similar measures to prevent sediment from entering stormwater conveyance systems prior to permanent stabilization of the disturbed areas.

Our Team will comply with all VDOT and/ or DEQ regulations and guidelines while achieving no sediment loss from the Project into environmentally-sensitive areas.

Impacts related to noise, vibration, light, dust, erosion/runoff, and local road damage are addressed in our design and daily work plans.

Vibration monitoring will be conducted during pile driving operations and demolition operations in sensitive areas of the Project. Our Team will conduct pre- and post-condition surveys of existing facilities as required by the technical requirements.

Our conceptual design and phased construction approach obtains all required permits and avoids potential schedule delays including the time of year restrictions associated with the Northern Long-Eared Bat. Our innovative shift of the I-64 eastbound Queens Creek bridge allows us to reconstruct both new bridges with our access trestle that is installed and removed only once, thus saving time and reducing impacts to Queens Creek. Our schedule allows for the trestle's pile foundations to be driven prior to the beginning of the February 2019 Anadromous Fish window.

All environmental protection measures, storm water management facilities, and E&SC measures will be installed and maintained in accordance with the approved Storm Water Pollution Protection Plan (SWPPP). As demonstrated by Table 4.5.2, Skanska has emerged as an industry leader in recycling/reusing materials on large scale design-build infrastructure projects and this Project is an opportunity for VDOT in this regard.



Figure 4.5.13: Envision Platinum Award. The I-4 Ultimate Widening D-B Project in central Florida earned the prestigious Envision Platinum recognition from the Institute for Sustainable Infrastructure (ISI) for its sustainability efforts of environmental, social and economic impact on the community for the 21-mile I-4 widening project.

The I-64 Segment III project fits Skanska's culture to maximize recycling of materials over the course of our projects.

Design-Build Project	Recycle Achieved	Award
I-275 Reconstruction Design-Build, Tampa,FL	98%	FTBA Best in Construction (Urban) Award FDEP Recycling Program Recognition – Achieving a 98.7% Recycling Rate / Diversion from Landfill Roads & Bridges Magazine – Ranked No. 3 Top Ten Roads DBIA Florida Region - Transportation Project of the Year
I-264 Widening/ MLK Extension Design-Build, Portsmouth,VA	99%	River Star Model Level Environmental Stewardship Award and River Star Sustaining Model Level Environmental Stew- ardship Recognition ACEC-VA Engineering Excellence Grand Award Sustained Distinguished Performance Award 2016 DBIA Hampton Roads Award for Excellence VDOT On-the-Job Training Program Award "You Mean the World to Us" Recognition for Stakeholder Involvement
I-4 Ultimate Widening D-B, Orlando,FL	99% goal	Platinum Envision TM Certification Envision Platinum FDEP Recycling Program Recognition – Achieving a 98.7% Recycling Rate / Diversion from Landfill – SGL Community Service Award ENR Southeast Top Project Starts – Ranked No. 1

Table 4.5.2: Success with Recycling and Reuse



Figure 4.5.14: Concrete Disposal. Our crews take appropriate measures to ensure washout water from concrete pours are not released on to the ground or into drains or waterways.

As part of Phase 1 construction, E&SC elements, including silt fencing, temporary sediment basins, and check dams, will be installed prior to grubbing activities. Our Registered Land Disturber (RLD) will assign a crew to implement all the requirements of the SWPPP and environmental permits as well as:

- inspect and maintain all protection measure placed during construction;
- mark jurisdictional lines prior to any construction activities and train equipment operators on the need to stay clear of these designated areas;
- isolate areas with environmental impacts through staking, flagging, and signing to insure all types of environmental issues are communicated to the construction staff;
- eliminate wildlife impacts by driving hollow piles outside of fish windows, clearing outside of bat windows and limiting intrusions into the ditches and subaqueous vegetation;

Skanska understands that self-contained concrete truck washout systems are superior to lined dumpsters, which require heavy maintenance and upkeep during construction. Washout pits are no longer endorsed by the EPA; therefore, we will not use pits on our project site. Our crews use methods similar to that presented in Figure 4.5.14 to help our projects achieve the benefits of environmental stewardship.



Figure 4.5.15: Segregating Recyclable Materials. We place containers and signs to segregate waste, which encourages and streamlines recycling and re-use.

As shown in Figure 4.5.15, we divide our construction waste into hazardous, non-hazardous, and inert receptacles for disposal, helping to minimize costs and maximize the opportunities for recovery and recycling of wastes. Segregating wastes will maximize recycling and allows certain types of waste to be recycled and re-used on site.

ROW Acquisition

We minimized ROW acquisitions during the proposal phase by extensively evaluating the storm drainage systems. We evaluated the parcels to be acquired and, through the experience of our consultant, determined the likelihood of certain parcels for condemnation, which we accounted for in our schedule.

During the ROW acquisition phase, the Skanska Team will continue efforts to minimize the time needed for ROW acquisitions. We will perform appraisals of each property, communicating with impacted property owners multiple times during negotiations on behalf of VDOT. In our experience, open and transparent lines of communications will increase the chance of success for the process.

The Skanska Team reduced the total amount of ROW required for the project by approximately 62 percent, as compared with the RFP Plans. Our schedule has accounted for necessary acquisitions, with no work activities scheduled in these areas until the particular acquisition is complete.

Staging and Storage Areas

Making use of the I-64 median areas as they become available will further provide for material stockpiles and temporary staging for bridge and crossover construction. We plan to pursue agreements with landowners adjacent to the Project to secure additional acreage, if required, for a recycling yard(s). Our Team will procure the required permits for yards needed for construction, and we will work to minimize disturbances to local roads and communities.

As with all Skanska projects, storage of materials will be planned for areas where safe delivery access does not introduce hazards, including line of sight obstructions to the traveling public

By using the future drainage pond areas as stockpile and equipment staging areas prior to excavation of the pond sites, our Team minimize have the needed space for the Project's temporary material storage and office needs.

Public Involvement/Stakeholder Coordination

We will coordinate our sequence of construction during design and construction with other known projects in the area, which are listed in Table 4.5.3.

With numerous tourist destinations increasing traffic flow during the summer months, I-64 in York County is a highly congested area. Our Team understands communication protocol requirements and will ensure stakeholder concerns are tracked and expeditiously answered. The Skanska Team will coordinate with the I-64 Segment II Project on public information and outreach activities, as it impacts many of the same stakeholders.

Our approach has proven successful on many large design-build interstate highway projects, such as the I-4 Widening D-B project in Orlando, FL. Our multimedia approach for this Project

Table 4.5.3: Public Involvement/Adjacent ProjectCoordination

Project	Current Status
I-64 Capacity Im- provements – Segment II	Under construction for May 2019 completion
Route 143 at F-137 and I-64 (Exit 238)	Under design with construction expected by Sep 2017
Colonial Parkway Joint Sealing (NPS)	Under design, con- struction expected summer 2018
Smart 18 – Capital Landing Road/ Bypass Road Intersection	Under preliminary design, construction expected 2023
Ironbound Road / Longhill Road Inter- section	Under design, con- struction expected Jan - Sep 2018
Annual resurfacing (throughout Williams- burg)	April through June yearly
Route 640 (Water Country Parkway)	Under preliminary design, construction expected July 2018 – April 2019

We will communicate lane closures and traffic shifts using multiple media outlets so that stakeholders have consistent, accurate information with enough time to make decisions on their

will give stakeholders updated information in simplified formats. In order to effectively communicate with the public on this Project, we will identify critical roles, proactively connect with stakeholders, coordinate closely with VDOT, and continually engage the surrounding community.

Our TMP develops a Public Outreach Plan (POP) within 90 days of NTP that includes

coordination with the VDOT Communications Team supporting the Project and joint information flow with Segment II. The POP uses VDOT's Policy Manual for public participation as a guide to address roles, protocols, guidelines and responsibilities. The POP includes:

- Information dissemination goals
- TMP with alternative routes and potential impacts
- Incident management protocols
- Mitigation strategies for communication
- Stakeholder identification and specific outreach plans
- Crisis communication protocols and contact information
- Communications tools
- Advertising and marketing plan and budget

The POP is flexible enough to adapt to the changing needs and conditions of the Project and its stakeholders. Since the Project spans over eight miles, we will meet with stakeholders common to certain areas of the Project in order to be sure topics are kept relative to those who attend. Skanska will use BIM modeling for high-tech visualization for public outreach and stakeholder coordination. BIM 3D and 4D schedule models can be shared with stakeholders to effectively communicate impacts and strengthen our partnership between VDOT and affected stakeholders during construction.

We will work in close coordination with VDOT's Hampton Roads District to deliver accurate and consistent messages to stakeholders.

Governmental Approvals

The Skanska Team has evaluated the permitting requirements of the Project and, using our CPM schedule, determined that the procurement of the COE Section 404 and the Virginia DEQ Section 401 Permits will be critical to the installation of construction access for the construction of the bridges over Queens Creek.

Our acquisition of the DEQ Virginia Pollutant Discharge Elimination System Permit is near critical to the Project and critical to starting the ground disturbance activities required for the construction of the roadway. See Table 4.7.2 for the full list of permits and their current float. Permits listed in Table 4.7.3 could also impact the Project. Following award, we will coordinate with the responsible permitting agencies and VDOT to assure the needs of the agencies are met, building the foundation for an effective permitting process.

Mitigating any Potential Delays to Construction

Our CPM proposal schedule, presented in Section 4.7, allows us to anticipate delays by managing and tracking the expected progress of the Project from NTP to final completion, with the following:

- Milestones
- Project management
- Scope validation period
- Design
- Public involvement
- Environmental
- ROW
- Utilities
- Procurement
- Mobilization
- Construction
- Systems testing
- Demobilization

Our CPM scheduler has worked diligently during the proposal phase to identify and address potential schedule-related project risks for the Oroject. After NTP, we will evaluate the effects of time-related changes to the activities that occur prior to construction, so that we can make timely and informed decisions on recovery.

Our scope of work is adaptable and can be resequenced often. Depending on the constraint, we will consider opportunities for adjustments and adding crews.

We have identified sufficient local labor resources in the Hampton Roads area, many of whom were a part of the recentlycompleted I-264 Widening/MLK Extension Design-Build Project.

Expediting the Interim Milestone or Final Completion of the Project by the dates included in the Offeror's Letter of Submittal.

The Skanska Team's proposal schedule provides a final completion date of September, 23, 2021. We will consider alternate methods to achieve the available incentive(s) such as:

- Heat-cure concrete pours in the winter
- Continue to optimize our sequence of construction

4.5.2: Transportation Management Plan (TMP)

The Skanska Team possesses the innovative and flexible mindset required to operate in a dynamic traffic environment. This enables us to mitigate impacts to the traveling public and major Project stakeholders during construction. Our Team will use effective traffic control to guide the traveling public safely and efficiently through the work zone.

We will implement a TMP that carefully maintains traffic safety by providing accurate and up-to-date information to drivers before and as they navigate our construction zone.

Our commitment to safety starts with the MOT design and ends with construction completion. A quality MOT plan is the basis for an overall safe Project, not just an afterthought.

We will prepare our TMP in accordance with the RFP for a Type C, Category V project. This provides consistency with the I-64 Segment II TMP, yet is tailored to the specific needs inherent to I-64 Segment III.

Our TMP will include three general sections:

Realizing that an effective MOT plan is the basis for a safe Project, the Skanska Team's TMP design will be more than simply plan notes. Our TMP will be an independent, living document that encompasses our temporary traffic control, public outreach, and construction strategies to enhance public safety

- Temporary Traffic Control (TTC) Strategies:
 - describe the project, how it will be phased, and analyze expected impacts (including phased analysis);
 - define work hour, lane closure, and time of year restrictions;
 - outline detours and impacts;
 - provide TTC numbers/plan sheet references; and
 - develop outreach strategies for Project stakeholders.
- Public Outreach (PO) Strategies:
 - define methods to communicate with impacted stakeholders; and
 - outline expected work zone impacts and changing conditions.
- Construction Operations (CO) Strategies:
 - document the processes used for incident response in the work zone;
 - solicit first responders' input into the transportation operations strategies;
 - identify the contact process for emergency responses, providing our field personnel with a single source of reference so they can respond quickly and effectively; and
 - detail the notification process for O&M by construction work forces during construction.

We will submit our initial TMP with the early submittals of the MOT design package generally outlining the work zone and including analysis to support the work zone configuration. As we refine TTC strategies, we will solicit stakeholder input. We will use this input to develop the CO strategies in our TMP, including towing operations and special work zone access to incident sites.

We will then incorporate new information and details into our MOT design packages. For each subsequent MOT Plan package submittal, we amend the TMP and highlight our revisions to simplify VDOT's next review.

Maintaining Traffic Through all Phases of Construction

Our TMP provides 12-foot travel lanes and emergency pull-off cells as noted in Figure 4.5.9 on page 42. Our MOT design provides tapers and shifts for the posted speed limit. If a reduced speed limit for the work zone becomes necessary, we will work with VDOT to design a speed reduction and submit for their consideration in order to minimize the potential for work zone incidents.

We will coordinate as needed with the adjacent construction projects mentioned in Table 4.5.3 in order to provide safe and efficient traffic flow between the projects' boundaries by maintaining appropriate work spaces and consistent posted speeds. Skanska will use SAMRT ZONE technology similar to what we are using on the 21-mile I-4 Widening D-B Project in Orlando, Florida, to constantly monitor traffic to provide data necessary for making TMP adjustments in real-time. This approach will keep drivers aware of conditions and maintain smooth traffic flow. By relocating the existing fiber optic backbone out of the areas impacted by construction while maintaining the existing redundant loops, we can provide 24/7 uninterrupted service.

Our strategy to coordinate with first responders, including access and response times during emergencies, is explained in the Public Involvement/Stakeholder Coordination Section on Page 46.

Descriptions of how traffic will be maintained during all phases of construction are described in Figure 4.5.16.

Our TMP will provide:

- two 12-foot wide travel lanes in each direction except for areas where the RFP allows otherwise;
- work zone cells, approximately one mile in length, protected with temporary concrete

Using our experience on the I-264 Widening/MLK Extension Design-Build Project, we can provide improved methods to exchange information, including public outreach and internal project level communication which includes event work scheduling, unscheduled incidents and

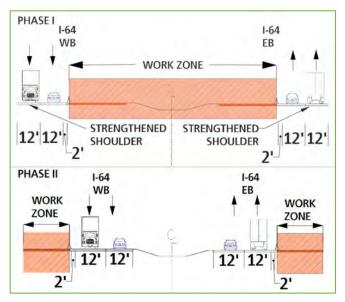


Figure 4.5.16: Maintenance of Traffic Typical Section.

barrier with leading ends tapered to reduce hits;

- safe emergency pull-off cells every mile, which increase in length and width as construction progresses through each phase (these areas are located between the active work zones and are designed to accommodate separate, safe ingress/egress of construction vehicles);
- Incident Management Plan, including emergency vehicle access and detour routing;
- on-site wrecker service;
- maintenance of haul roads for Project stakeholders and EMS access; and
- provisions to secure the work areas in the event of a VDOT-directed evacuation.

We will use SMART ZONE systems to better inform motorists of upcoming congestion and opportunities to use alternate routes. This technology will enhance safety and mobility, and improve first responder response time by providing real-time traffic data, which allows responders to select more usable routes to incidents.

Our TMP concept provides construction access to the shoulder work areas from parallel local roads which have lower traffic volume, further reducing construction impacts to the traveling public.



Figure 4.5.17: Innovative Median Access Plan. By decreasing reliance on I-64 for deliveries, we have greater control of the delivery schedule and can offer first responders alternatives to reach incidents blocked by traffic backups.

Our Team's MOT Plan focuses on driver expectancy, the safety of the traveling public and our workers, and facilitates safer and more efficient construction access, while still consolidating the maximum amount of work into the fewest number of phases.

We will make every effort to remove hazards from the Project's clear zones in order to minimize the need for temporary barrier wall in our TMP whenever possible. By balancing the median earthwork, our Team has been able to design safer median slopes, which will serve as an important safety feature during temporary construction phases and throughout the life of the Project.

Incident Management

Traffic on I-64 can be subject to long periods of immobility due to incidents that occur regularly up and down the corridor.

Our Incident Management Coordinator (IMC) will lead the preparation of the Incident Management Plan to include the key elements listed below.

- Coordination with VDOT's Transportation Operations Center (TOC) to determine the possibility of using VDOT's facility to monitor cameras in the Project corridor to enhance response times for medical support and to clear vehicles quickly.
- Methods to expedite response time and clearing of accidents. We plan to define

accessible pull-off spaces to allow removing vehicles from traffic lanes as soon as possible and provide towing service as required by the RFP.

 Coordination with first responders to define a workable response plan. Before a traffic switch, the IMC will brief first responders on changes to traffic flow, explain how they can access the corridor, and address any concerns regarding their ability to respond within their service area. It is our practice to execute a practice drill with first responders every six months to help ensure a rapid, efficient response if required.

With VDOT's approval, we propose to provide safer construction access directly from the existing overpass bridges at Route 199/646, Barlow Road, Route 143/Merrimac and Queens Lake Drive. This innovative temporary median access ramp concept (Figure 4.5.17) to allow local supplier and subcontractor deliveries to enter the Project without accessing I-64 mitigates the risks of materials becoming delayed in interstate traffic. This approach bolsters the certainty of our construction schedule and also lessens the overall length of time this Project will impact traffic. We will consider using temporary signals at these locations to enhance traffic control and safety to drivers and pedestrians.

Recognizing that VDOT has 20 CCTV's, 28 MVD's and four DMS's operating along the Project corridor, we will strive to learn of incidents on the Project as quickly as VDOT does. Our dispatchers can monitor on-line applications that contain real-situation feedback data compiled by motorists and, within seconds, can transmit accurate information to our IMC to initiate the fastest possible response.

During non working hours in Phase 3 of the Queens Creek Bridge construction (Figure 4.5.18, Page 51) the Skanska Team will maintain a delineated access lane that can be used by emergency response vehicles to cross Queens Creek, avoiding the longer distance that would be required by an impassable bridge condition.



Figure 4.5.18: Queens Creek Bridge Phase 3: Our crews will maintain a delineated access lane for emergency responders to use during hours that our crews are not present in Phase III of the Queens Creek Bridge construction.

Public Outreach

A proactive public outreach campaign is critical to an effective TMP and a successful project. Our Team will communicate with VDOT and other Project stakeholders in advance of all planned impacts to traffic. We will give special consideration to providing advanced warning of congestion ahead to traveling passing through the Project. We will implement additional changeable message signs to enhance driver awareness in areas deemed necessary. Through VDOT's existing program for the overall I-64 corridor, we will provide and keep the public updated with the most timely, clear, focused, accurate, and consistent information possible throughout construction.

Lane Closures

Lane shifts and lane closures will be designed to meet the VWAPM requirements for the existing posted speed with minimum RFP allowable travel lane widths. Our plan will use temporary nighttime lane closures to facilitate safe completion of:

- Temporary strengthening of existing shoulders
- Sign and signal installations
- Temporary traffic shifts
- Ramps and temporary cross-over tie-ins
- Construction of final pavement surface course and markings
- Deliveries scheduled to occur at off-peak

times in order to minimize impacts to traffic

Understanding that temporary lane closures are allowed at the sole discretion of VDOT, we plan to use lane closures only when necessary to ensure the safety of the traveling public.

Short-term directional closures on Lakeshead Drive and Colonial Parkway for setting bridge beams or unloading/loading equipment or materials will be limited to 20 minutes or less, and will only occur between the hours of 8:00 pm and 5:00 am.

On Lakeshead Drive, our crews will reduce traffic lanes to one 12-ft. through-lane, which will safely maintain two-way traffic using automated temporary traffic signals for no longer than six months. This configuration will allow us to complete the bearing replacement work on the existing spans. We will maintain emergency response vehicle access into Queens Lake neighborhoods at all times.

To facilitate safe and expedient installation of the cast-in-place concrete arch portion of the bridge widening over the travel lanes of the Colonial Parkway, we will safely accommodate two-way traffic using a single 14-ft. lane, with an automated temporary traffic signal, for no longer than 12 months.

Design Speeds

Our MOT plan will be designed using a 55 mph speed. Higher design speeds provide a higher degree of safety, because they use longer tapers, shifts, clear zone distances, and acceleration and deceleration lanes. We strive to strike a balance between MOT design speed and posted speed in order to optimize safety for our workers and the traveling public. While promoting an optimal level of mobility through the corridor during construction, we will work with VDOT to identify opportunities where constraints allow us to provide higher design speeds. One opportunity may be during Phase 2 when traffic is placed onto newly constructed pavement. It is possible that construction on the Segment I and II projects will be complete at that time, and VDOT may desire to improve mobility through the Segment III Project during its final phase. Horizontal clearances, such

as clear zone distance, will need to be addressed in our TMP during design for that situation.

Ramp Closures

The only ramp closure included in our TMP will be the on-ramp from northbound Route 143 to westbound I-64. This ramp will be closed for less than four weeks in order to reconstruct the proposed pavement under the Route 143 overpass. Our TMP includes entering all approved closures into the VDOT Lane Closure Advisory Management System (LCAMS), VA Traffic, and our proposed smart phone app to keep local stakeholders informed and updated on scheduled changes to, and opening of the ramp. All other ramps will be constructed without closures.

Temporary Detours

The only temporary detour included in our TMP will be used to facilitate the movement of traffic that would otherwise use the on-ramp from northbound Route 143 to westbound I-64, while that ramp is closed for the above-mentioned period of less than four weeks. All other ramps will be constructed without detours.

Time of Day Restrictions

Our Team understands the importance of the RFPdesignated time restrictions and shares VDOT's goal to promote safety and mobility throughout construction. Our TMP uses lane closures to minimize the exposure of vehicles to construction hazards, as well as to maintain an aggressive construction schedule. We will adhere to Time of Day restrictions as specified in the RFP. After selection, we will work with VDOT to evaluate the actual traffic flow to determine whether the schedule can be advanced by modifying the lane closure requirements. This may allow us to refine the allowable closure times in order to best position our crews to achieve the most production during times of low flow, while still maintaining traffic mobility during times of high flow. Such an evaluation would include:

- obtaining new traffic data; and
- performing an analysis using the Allowable Lane Closure Hours Spreadsheet Tool developed by VCTIR using the standard VDOT paramaters

If it is determined that a new allowable lane closure restriction of hours is viable for this segment, we will a request an exception and submit it to VDOT's project manager for said adjustment.

Flagging Operations

Flaggers will be employed to protect motorists, pedestrians and bicyclists from construction operations as needed, such as helping pedestrians divert to safe areas, and protecting them from situations that could put them at risk of injury from overhead objects.

Minimum Lane Widths

Our temporary lane configuration is two 12-foot lanes and a 2-foot shoulder in front of temporary concrete barrier wall, with 1-foot behind the barrier wall for function. Our use of 12-foot minimum lane widths is generally less disruptive and more comfortable to the high volume of trucks using the corridor. We considered using 11-foot lanes and a continuous 9-foot shoulder. However, with a full-width shoulder preserved every other mile for emergency pull-off cells, we offer more safe width for a disabled vehicle to change a tire than would be afforded with a 9-foot shoulder. Furthermore, our SOC allows for continuous improvement as phasing advances mile-by-mile, by completing the IM pavement layer, pulling barrier and adding precious fullwidth emergency pull-offs to provide more continuous space for vehicles involved in breakdowns or incidents to pull-over and allow traffic to flow.

Work Zone Speed Reductions

Our TMP is designed using design speeds that match the existing posted speed limit. Our TMP anticipates no temporary reductions in speed limits consistent with the RFP requirements.

The Skanska Team will work with VDOT to identify opportunities to raise the work zone speed

The overall success of the Project will depend on the stakeholders' perception. Our Team will work closely with VDOT to ensure that we maintain a positive outlook for this vital corridor.

during later phases, when other segments are complete, which will enhance mobility in Phase 2.

Major Stakeholders

Our Team has identified a unique set of stakeholders of this Project, who are listed in in Table 4.7.1 located in Section 4.7: Proposal Schedule Narrative.

During the proposal phase, our Team reviewed the comments obtained from VDOT's public information sessions and contacted many of the impacted stakeholders to listen to their concerns regarding the Project.

Regularly scheduled meetings with the stakeholders will provide two-way information sharing monthly, and these meetings will be a focus of the Skanska Team.

Many stakeholders near the Project will be affected by construction; therefore, close coordination will be extremely important to maintain the schedule and minimize impacts to traffic operations.

Our DBPM will provide accurate and timely information to all stakeholders. Our Team will work with VDOT to establish and maintain a Project website and mobile phone application to provide information about the I-64 corridor overview, work sequencing, overall Project schedule, potential traffic impacts, potential impacts to local stakeholders, up-to-date Project photos, and our contact information. This same information will be sent to VDOT's District Office of Public Affairs and Stakeholders on both a periodic basis and at key milestones. We will prepare for and attend public coordination meetings as necessary to communicate Project status and upcoming activities that will impact the stakeholders. We will also provide written documentation to VDOT about our planned operations, haul routes, utility relocations, lane closure schedules, and upcoming changes in traffic patterns.

The Skanska Team complies with RFP paragraph 2.3.2 Proposed Bridge Improvements – B-642 and

B643 over Queens Creek, as evidenced in Figure 4.5.19, our design achieves the minimum 15-foot wide clear channel beneath the spans of both bridges for boats traveling along the creek at all times during construction.

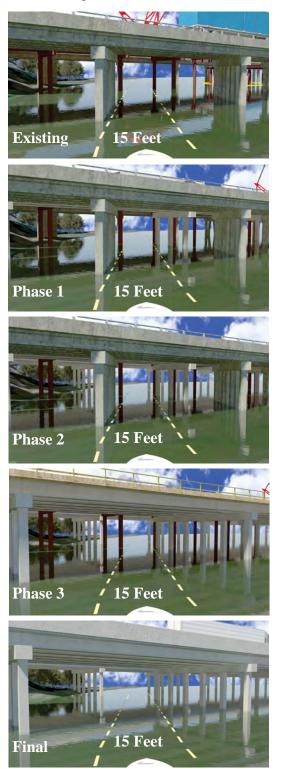


Figure 4.5.19: Queens Creek bridge: Our trestle design accommodates the minimum 15-foot wide clear channel beneath both bridges.

Means and Methods – Specific Details

Our MOT specialists will set out the lane closures, and then be responsible to monitor, maintain, and improve or adjust the devices in their lane closures for the duration of the closure. We will perform regular inspections of our lane closure equipment by testing reflectivity, replacing batteries on lights, and bulbs on arrow boards and changeable message signs.

Advanced notification will be provided prior to work area activities, and before temporary lane closures to minimize congestion. The public outreach campaign will include typical media outlets, citizen information meetings, website updates, press releases, local resident/business letter notifications, and targeted group meetings. This is reflected in our phasing approach and throughout our TMP, which adheres to the laws, standards, specifications, and references listed in the RFP.

Traffic safety in temporary traffic control areas will be an integral and high priority element of this project. The TMP will balance the safety of motorists, pedestrians, and workers. Standard highway signs will be placed using federal and state guidelines to provide advance warning to drivers and assistance in identifying and designating traffic paths. Such traffic control devices, signals, message boards, barrels and barricades will instruct drivers to follow a path away from the work zone. We will minimize traffic impacts, maintaining the current number of lanes through the Project. We expect nightly lane closures to be a common occurrence for work that includes, but is not limited to:

- Temporary barrier operations wall installations and removal
- Roadway and paving
- Pavement marking and striping
- Sign work
- Demolition of bridge and roadway

We will consider traffic operations in each stage of construction, and conduct traffic analysis to confirm the functionality of temporary traffic patterns to minimize the impact of motorists in the work zone. Our analysis will evaluate travel time, level of service, and volume/capacity ratios Utilizing intelligent, wireless, and sequentially operated lights in cone tapers (Figure 4.5.20) enables our crews to form a clearer directional path for merging traffic during lane closures. This provides better driver recognition of the merging taper and helps reduce approach speeds.



Figure 4.5.20: Syncro-Guide Cone Taper Lights: Synchro-guide cone lights are being used on Skanska's I-4 Widening D-B project in Florida. Our crews have experienced a drastic reduction in taper intrusions with the taper lights with near zero intrusions compared to a history of two to three intrusions per shift without the taper lights.

to identify work zone mobility deficiencies and provide mitigation strategies.

Advanced Lane Closure Alert System

The lane closure alert system consists of realtime updates entered by Skanska's MOT field engineers who can populate the VA 511 Traffic Information System, local media and VDOT's website. Skanska's I-4 Widening D-B project is the first to use this technology in the U.S., and more than 10,000 central Florida users have signed up to receive lane closure alerts that are customizable to their specific travel routes.



Figure 4.5.21: Custom Designed MOT Trucks: Skanska's specifically designed MOT trucks feature a basket that hydraulically adjusts up and down to make retrieving and laying cones safer and easier. The trucks are equipped with a custom interior video and intercom system to allow the driver to communicate and monitor the crew around the truck from the cab without turning around.

Lane Closure Documentation System Project Data Portal (PDP) Website

All lane closures will be videoed and stored in project records for documentation to aid in proactive avoidance of traffic accident reactionary lawsuits.

Custom-Designed MOT Trucks

This innovation (Figure 4.5.21) mitigates risks by significantly minimizing the amount of vehicles and personnel needed to perform our operations, reducing the necessary man-hours to change attachments, and lessens physical stress on workers. Skanska crews have currently installed more than 7,000 closures with zero truckmounted attenuator impacts. Our state-of-the-art truck's cab-over design reduces turning radius in urban environments, and the in-cab hydraulicallyraised and lowered attenuator reduces the time spent out of the truck.

A quick disconnect attenuator can be removed in under 10 minutes and swapped for a rear man basket. Using these custom MOT trucks reduces repetitive rotator body movements and minimizes physical injury and stress to cone setters. The trucks are equipped with a six-camera system and DVR to monitor drivers and record conditions in the event of a third party accident.



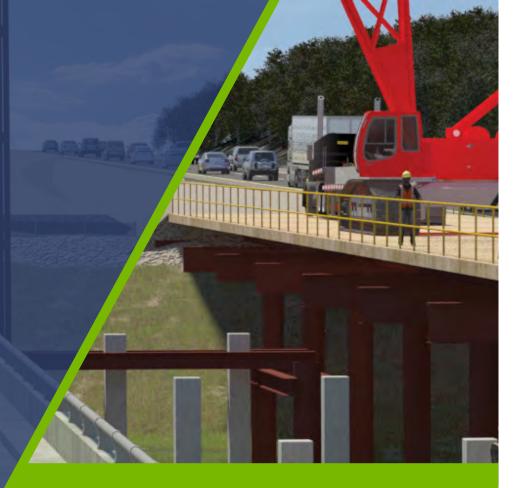
Figure 4.5.22: Halo Lights. The Halo Light, used on Skanska's I-4 Ultimate Project, attaches to hard hats and uses a 12-hour rechargeable battery to produce its signature ring of light visible from 400 yd. away.

Balloon Lighting

Unlike traditional portable light towers, Skanska employs the use of balloon lighting in work areas where we need to deliver softer, diffused light throughout the work site, and/or to eliminate the glare that light towers are capable of producing which can be a hazard to traffic moving through the work site.

Halo Lights

When working near traffic in low-light conditions, many Skanska crews use the Halo Light (Figure 4.5.22), a safety and task light that enables the wearer to see the task at hand and be seen in all directions.



4.6 Note: This Content was Moved to the LOS



4.7 Proposal Schedule

SKANSKA



Proposal Schedule

4.7.1: Proposal Schedule

The Skanska Team has provided two versions of the same schedule in Volume II: One version that shows only our critical path and a second, unfiltered schedule grouped by our Work Breakdown Structure and sorted by the start date.

4.7.2: Proposal Schedule Narrative

Our design-build schedule is based on a sequence of logical interpretations of the work, and optimizes the amount of construction activities completed during each construction phase to maximize efficiency of resources and activities. Our schedule is also a management tool focusing on integrating all aspects of the Project, including impacts to the stakeholders noted in Table 4.7.1, as well as our design process, and construction activities. Regularly scheduled meetings with the stakeholders will provide monthly, two-way information sharing. These meetings will ensure our continued focus on stakeholder coordination.

Our schedule divides the Project into three main construction areas (Figure 4.7.1, Page S-2) (Areas A, B and C), and manages them both separately and collectively. This approach enables our Team to make objective decisions with the resultant effect to each activity, and subsequently the overall Project, in mind. Construction activities are completed using two phases, with the exception of an additional phase for the completion of the bridges over Queens Creek and the adjacent roadway.

Our proposal schedule provides a final completion date of September, 23, 2021. Following award, our Team will consider alternate construction methods to attain the available incentive(s). These methods include:

• using Saturdays to recover time lost during

the work week due to weather;

- incorporating heating systems to maintain quality while pouring bridge decks during winter months when temperatures are not conducive to conventional deck pouring;
- working with VDOT to inspect and correct any defects as construction progresses, minimizing the time needed to close-out the Project; and
- Accelerating design work as it relates to permitting.

Considered in Our Sch

Table 4.7.1: Stakeholders Considered in OurSchedule

Queens Lake Association
Creekside Landing Homeowners
Felgates Woods
Queens Lake Middle School
Bruton High School
Great Wolf Lodge
Colonial Williamsburg Foundation
Camp Peary
Hampton Roads Transportation
National Park Service
Waller Mill Reservoir
City of Williamsburg
York County
Businesses in the Vicinity of the Project
Colonial National Historic Park
SHPO
HRTPO
FHWA

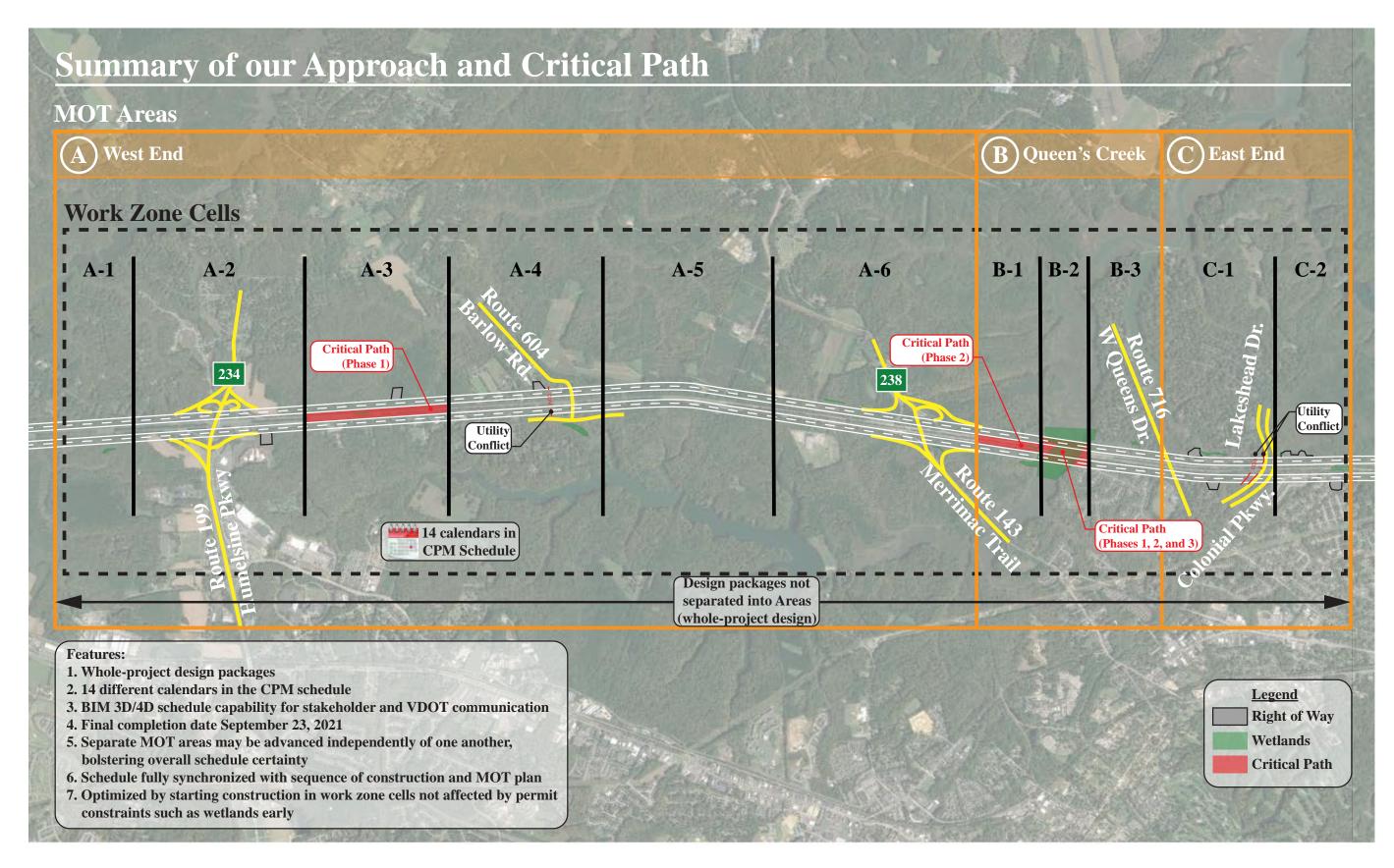


Figure 4.7.1: Project Schedule Constraints. We have divided the Project into three identifiable Areas, each with their own distinct features and associated MOT plan, allowing critical activities to advance and build a high level of certainty into our schedule.

Using one or more of these techniques will allow our Team to deliver the Project to VDOT early enough to attain the full incentive.

Work Breakdown Structure (WBS)

Our proposal schedule uses a hierarchical WBS (Level 3), helping us evaluate and understand the interdependence of work throughout the I-64 corridor. We will anticipate delays by using our schedule to manage and track the expected progress. Critical elements are detailed below.

- 1. Milestones: Both the contract milestones and internal milestones are included in this section. The milestone portion of the schedule will be an initial indicator of expected Project success.
- 2. Project Management: Includes general and administrative aspects of the Project, such as close-out.
- 3. Scope Validation Period: Includes all aspects of the scope validation, including contract document review, design validation, surveying, utility location, and geotechnical investigations.
- 4. Design: This section encompasses the roadway and structures design from the ROW plans through RFC for all anticipated packages.
- 5. Public Involvement: Includes interactions with the public, such as coordination with adjacent construction Projects, public information meetings, first responders meetings, final noise abatement design, and coordination with Camp Peary and other stakeholders (Table 4.7.1).
- 6. Environmental: This section includes the preparation and reviews of permits required for the Project.
- 7. ROW: Includes outreach to property owners and ROW acquisition.
- 8. Utilities: This section includes outreach to all utility owners in the Project vicinity as well as the design coordination and expected relocations of impacted utilities.
- 9. Procurement: Encompasses outreach to major subcontractors for services and vendors for materials, and includes material submittals, reviews, fabrication, and deliveries.
- 10. Mobilization: Refers to set-up of Project

office space and Project staffing.

- 11. Construction: Includes all construction activities, such as MOT, clearing, demolition, grading, drainage, pavement.
- 12. Systems Testing: This refers to testing of newly installed ITS systems, where required.
- 13. Demobilization: This section refers to removal of Project office space and staff.

Activity Codes

Activity codes have been assigned to individual activities to allow for filtering, grouping, and sorting of activities.

- Feature general elements of the Project
- Area specific area of the Project
- Stage general stage of the Project
- Phase specific phase of construction
- Type of Work details regarding the specific type of work, grouped by similarity
- Responsibility defines the entity responsible for the work

Milestones

The milestone schedule will allow the Skanska Team and VDOT to track progress against the contract milestones in the RFP and our own internal milestones for the Project, both in its entirety as well as by individual area. The milestone schedule is provided in Table 4.7.2.

Table 4.7.2: Project Milestones and Completion Dates

Milestones	Date
Contract Milestones	
Notice of Intent to Award	10/30/2017
Notice to Award	12/6/2017
Design-build Contract Execution	1/9/2018
NTP	1/17/2018
Final Completion	9/23/2021

Project Sequencing

Preconstruction: During the preconstruction stage of the Project, the Skanska Team will progress the design, procure permits and ROW, and coordinate and relocate utilities to facilitate the construction. **Design**: Prior to NTP, the Skanska Team will work collaboratively to prepare permit applications and work plans in order to perform scope validation work as efficiently as possible. Once NTP is received, our Team will begin scope validation while concurrently developing the roadway ROW plans and bridge preliminary plans. Scope validation activities includes bit is not limited to geotechnical investigations, ROW survey, and utility locates. Once we have incorporated data from the survey and geotechnical investigations into the design, we will submit the ROW plan set to VDOT for review. After receiving comments from VDOT, our design team will develop construction plan sets for temporary traffic control, clearing and grubbing, grading and drainage, and final roadway. The bridge designs will progress in a similar fashion; after the preliminary plans have been reviewed, we will develop final plans for VDOT's review and approval.

Environmental/Permitting: Environmental permitting will progress concurrently with the design. To mitigate risks associated with delays during the permitting process, the Skanska Team will conduct "pre-application" meetings with permitting agencies to assure permit packages are complete and comprehensive with the initial submittal. Once permit packages have been assembled, our Team will conduct a final review of the permit package prior to submission.

Utilities: During the scope validation period, the Skanska Team will conduct a comprehensive subsurface utility exploration (SUE) to identify all potential utility conflicts. Following the SUE, we will hold meetings with all utility owners potentially be impacted by the Project. At this meeting, we will discuss our design and construction methods with the utility owners to better understand their concerns, and identify proposed utility relocation corridors to facilitate the ROW plan development.

Once the ROW plans have been developed, the Skanska Team will hold utility design coordination meetings with the impacted utility owners, allowing the design of utility relocations to begin. After the relocation designs have been reviewed by both the utility owners and the Skanska Team, we will submit them to VDOT for review and approval. Following approval, we will begin relocating utilities in a manner that minimizes stakeholder impacts. We will relocate utilities prior to working in impacted areas of the Project.

Construction: We divided the Project into three key construction areas: Areas A, B and C based on similar MOT requirements. The majority of construction is consolidated into two major phases, with the exception of the bridges over Queens Creek that required a third phase. See Figures 4.7.3 through 4.7.18 for the sequence of Queens Creek bridge. Colonial Parkway's arch sequence of construction is presented in Figure 4.7.19.

Our sequencing approach optimizes construction efficiency while maintaining a safe corridor for motorists by subdividing the three major areas into approximately one mile cells, then working in alternating cells. This method offers more consistent flow for the traveling public by providing larger cells for emergency pull-offs and construction access to minimize impacts to the traveling public.

Phase 1: Prior to the initial traffic shift, we will use nightly lane closures to strengthen the outside shoulder to allow for safe accommodation of traffic. Once completed, traffic will be shifted away from the median to allow for construction of the median widening. During the course of the Phase 1 median widening, we will construct the inside portion of the I-64 westbound bridge over Queens Creek, and widen the median of the bridges over Lakeshead Drive and Colonial Parkway. We will install a temporary crossover on either side of the I-64 bridge over Queens Creek in the median to allow eastbound traffic to transition to the newly constructed bridge.

Phase 2: Once median construction is complete, we will shift traffic toward the median to reconstruct the existing outside travel lanes.

During these reconstruction activities, we will make repairs to the existing bridge decks over Lakeshead Drive and Colonial Parkway.

Once the reconstruction of the remaining travel lanes is complete, we will shift traffic into its final configuration and install the final roadway surface and pavement markings. Adjacent to Queens Creek, the eastbound traffic will be shifted to the temporary crossovers and the newly constructed westbound bridge over Queens Creek, and demolition will begin on the existing I-64 eastbound bridge over Queens Creek. Once demolition has progressed sufficiently, we will begin construction of the new I-64 eastbound bridge over Queens Creek.

Phase 3: Once the I-64 eastbound bridge over Queens Creek is completed, we will shift eastbound traffic from the temporary crossovers to the outside of the new bridge. The crossovers will be modified to allow the westbound traffic to transition to the newly constructed eastbound bridge over Queens Creek.

With crossover reconfiguration complete and traffic shifted off the existing I-64 westbound bridge over Queens Creek, we will begin demolition on the existing westbound bridge over Queens Creek. Once demolition has sufficiently progressed, we will complete the remaining construction of the new westbound bridge over Queens Creek.

When we have completed both the new westbound bridge and the westbound roadway, we will shift traffic into its final configuration to install the final roadway surface and striping adjacent to the bridges over Queens Creek. During this time, we will remove temporary crossovers and complete final grading of the medians adjacent to Queens Creek.

The Figure 4.7.2, Page S-6, presents the scheduling relationship between the preconstruction and construction activities. A summary of our schedule is provided below.

Critical Path

The Project's critical path runs from NTP, through scope validation, design, environmental permitting, to the construction of the bridges over Queens Creek and the adjacent roadway. Our Critical Path Schedule is included in Volume II.

Design

The initial survey of the Project, which will be conducted during the scope validation period, is critical to the development of the ROW plan set. This survey will be used to determine the limits of disturbance and prepare our design for further development. We will use the design of the ROW plans in conjunction with the preliminary bridge plans to procure permits for the Project.

Environmental

The Skanska Team has evaluated the permitting requirements and determined, through the use of the CPM schedule, that the procurement of the COE Section 404 and the Virginia DEQ Section 401 Permits will be critical to the installation of construction access for the construction of the bridges over Queens Creek.

Furthermore, the Virginia DEQ Virginia Pollutant Discharge Elimination System Permit is near critical path to the Project and critical to starting the ground disturbance activities required for the roadway construction. See Table 4.7.3 on page S-7 for the full list of permits.

Construction

The critical path during construction is comprised of the Queens Creek bridges and their approaches, which will require three phases of construction to complete.

Phase 1: We will begin construction by installing temporary retaining walls to support the existing abutments while new abutments are constructed. We will install temporary trestle for construction access and material deliveries for the bridges crossing Queens Creek. Once the trestle is installed, we will start constructing the inner portion of the new westbound bridge over Queens Creek.

Task Name	2017	2018	2019	2020	2021	2022
Task Name	Q4	Q1 Q2 Q3 Q4	Q1 Q2 Q3 Q4	Q1 Q2 Q3 Q4	Q1 Q2 Q3 Q4	Q1
Milestones						
Notice of Intent to Award	*					
Notice to Award	*					
Project Notice to Proceed		*				
Construction Complete					*	
Final Completion					*	
Design	•		•			
Scope Validation Period		—				
Roadway Design						
Bridge Design	•					
Permitting		••				
Right-of-Way Acquisition		• •				
Utility Coordination/Relocation			•			
Procurement						
Mobilization						
Construction						
Phase 1 Construction						
West End Phase 1		•				
Queens Creek Phase 1				· · · · · · · · · · · · · · · · · · ·		
East End Phase 1					••••••••••••••••••••••••••••••••••••••	
Phase 2 Construction						
West End Phase 2						
Queens Creek Phase 2						
East End Phase 2			•			
Phase 3 Construction						
(Queens Creek)						
Project Closeout					••••	

Figure 4.7.2: Summary Schedule. The Skanska Team's Project schedule avoids delays with proactive coordination during design and optimizes the amount of work completed in each phase.

Phase 2: Once construction of the new westbound bridge over Queens Creek is complete, westbound traffic will remain in its Phase 1 configuration adjacent to the bridge, while eastbound traffic will be shifted to the new westbound bridge. Using temporary crossovers, we will relieve the existing eastbound bridge over Queens Creek from all public traffic in order to begin demolition, using the trestle installed in Phase 1 for access. Once demolition has sufficiently progressed, we will begin constructing the new eastbound bridge and approaches.

Phase 3: Once the new eastbound bridge is completed, we will shift eastbound traffic from the temporary crossovers installed in Phase 1 to the outside portion of the newly constructed

Table 4.7.3:	Permit	Acquisition	Schedule
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Permitting Agency	Permit Name	Date to be Acquired
VA DEQ	Section 401 (Water Quality)	10/1/2018
VA DEQ	VA Pollution Discharge Elimination System Permit	10/9/2018
USACOE	Section 404 (Water Quality)	10/1/2018
FHWA	Final NEPA Re-Evaluation	10/9/2018
VMRC	Sub-Aqueous Permit	8/30/2018
VA DEQ	Coastal Zone Management Consistency Determination	7/31/2018
USFWS	Endangered & Threatened Species	7/31/2018
NPS	Special Use Permit - Tree Removal	9/10/2018
NPS	Special Use Permit - Land Disturbance	8/3/2018
SHPO	Section 4(f) Consistency Determination	7/31/2018

bridge. With traffic now removed, the temporary crossovers will be reconfigured to allow westbound traffic to access the inner portion of the new eastbound bridge. Once the temporary crossovers are reconfigured, we will install temporary barrier to separate the eastbound and westbound traffic. Westbound traffic will be shifted to the inside portion of the new eastbound bridge. With traffic removed from the existing westbound bridge, we will begin demolition of the existing bridge. Cranes and heavy equipment will again use the trestle installed in Phase 1 to perform the demolition and construction of the outside portion of the westbound bridge. Once demolition has sufficiently progressed, we will build the remaining portion of the new westbound bridge over Queens Creek. When construction of the new westbound bridge is completed, the westbound and eastbound traffic will be shifted into their final configuration and the trestle will be removed. We will remove temporary crossovers and apply the final pavement surface to both the eastbound and westbound lanes adjacent to the bridges over Queens Creek.

Means and Methods

The Skanska Team, along with our consultants and key field management personnel, have

developed a schedule which follows our approach to the Project.

Preconstruction

The preconstruction phase is equally important to the success of this Project as the construction phase. The decisions made during the preconstruction phase will impact all future phases.

Design/Scope Validation

In order to develop the design and scope validation portion of the schedule, our design team considered how the work performed during scope validation impacts the design of the Project. Therefore, we allotted time for WSP to react to unexpected Project conditions uncovered during the scope validation work. The complete integration of the design and construction schedules allows our team to understand how each portion of the schedule impacts the others. Using this approach to schedule development, we were able to develop a more aggressive design schedule while maintaining a high level of schedule certainty.

During the design phase, Skanska and WSP will integrate staff to ensure a coordinated effort and a design that is not only constructible, but meets the needs of the VDOT and their stakeholders. Approximately one month prior to submitting our ROW plan set, we will invite VDOT to participate in over-the-shoulder reviews. This will allow our Team to understand VDOT's concerns and reduce the amount of comments generated by the formal design submissions. At this same time, we will hold a meeting with the appropriate VDOT personnel to coordinate these final design submissions and assure an efficient design review process. Prior to each VDOT submission, we will hold an interdisciplinary coordination meeting to better understand how the impacts of one design element will impact the others.

Environmental/Permitting

Our Team used past experience to generate an extensive list of any potential permits which could impact the Project. We then consolidated the initial list to those permits which present the highest risk of impact, as listed in Table 4.7.3, Page S-8.

Following award, we will coordinate with the responsible permitting agencies and VDOT to assure the needs of the agencies are met, laying the groundwork for an efficient permitting process.

Utilities

Our Team worked to minimize the scheduling impacts of the utilities along the corridor. We adjusted pond locations and sizing, evaluated structure foundations, and reviewed other mitigation techniques. These efforts allowed us to reduce impacts to only four known utilities throughout the Project.

In an effort to further minimize impacts to the existing utilities and their patrons, we will hold regular meetings with the utility owners during the design and construction phases. During these meetings, we will inform utility owners of our approach and listen to any concerns they have. When relocations are unavoidable, we will work with utility owners to minimize their impact.

Right of Way

We evaluated and optimized storm drainage systems, and effectively reduced the ROW acquisitions by approximately half over the RFP Plans. We also worked with our consultant to evaluate the parcels to be acquired and determine the likelihood of condemnation. These efforts allowed us to account for this time in our schedule.

During the ROW acquisition phase, our Team will continue efforts to minimize acquisitions. Although we have accounted for the time required for some parcels to progress to condemnation, we will work diligently to avoid this process. Methods to accomplish this include performing an extensive appraisal of each property, noting property owner concerns, and reaching out to impacted property owners multiple times during the negotiation phase of the acquisition process.

Public Involvement

The Skanska Team reviewed the comments obtained from the public information sessions VDOT has held to date, and communicated with many of the impacted stakeholders to understand their concerns. We worked to incorporate these concerns into our design and construction solutions.

Following award, we will continue to coordinate with stakeholders and first responders to develop a design and construction approach that minimizes impacts. Prior to changes in traffic patterns, we will meet with first responders to make sure they understand the proposed traffic patterns and, when necessary, make adjustments to our approach to anticipate and minimize potentially dangerous situations inherent to construction operations.

Construction

Throughout the proposal phase of the Project our Team has brought in key field staff to provide valuable insight as to the construction approach. The construction approach shown in our schedule reflects Skanska's best practices that were put into place at our recently completed I-264 Widening/MLK Extension DB Project in Portsmouth, VA, which we completed 11 months ahead of schedule. Our team has sought out key subcontractors, experts in their fields, to gain further insight as to the complexities which may be encountered during the construction of this Project. This has allowed us to gain a high level of schedule certainty in the Project, minimizing the risk of delays through the construction of the I-64 Segment III Project.

During the preconstruction phase of the Project our Team will mobilize construction staff and key subcontractors to develop comprehensive work plans which will then be incorporated into our baseline schedule, allowing for even more schedule certainty. Throughout the construction of the Project, our Team will continuously evaluate practices and procedures to assure and further the efficiency of construction. Skanska requires construction management staff to be informed as to their schedule and provide regular progress updates. These progress updates will be incorporated into the baseline schedule allowing our management to utilize the key indicators within the schedule to manage any potential changes to the Project schedule. This approach to schedule development and updating the Project schedules allows the Skanska management to proactively avoid delays to the Project.

Resource Management

The Proposal Schedule has been developed to emulate a baseline schedule, allowing the assigned Project management staff to review the schedule as would be conducted during the development of the baseline schedule, post award. By incorporating key staff during the pursuit of this Project, the Skanska Team has set the sequence of construction to optimize the flow of resources through the Project.

Our Team will continue to, further refine the needs of the Project and optimize the flow of resources. This will be accomplished by resource loading the schedule with permanent materials, temporary materials, work crews, and equipment. During the construction phase of the Project the resources will be regularly updated with the schedule.

QA/QC

Our Team has included a robust approach to QA/ QC throughout our proposal schedule. We have incorporated design reviews by both the design and construction teams, reviews of each permit submission, and included coordination meetings with impacted parties. This approach to our schedule allows us to proactively manage the quality of the Project.

To further promote the importance of quality post award, our Team will hold additional coordination meetings, which will be more informal, with VDOT, agencies, and impacted stakeholders early in the preconstruction phase of the Project. The information obtained during these informal meetings will be incorporated into our comprehensive QA/QC plan.

Key Assumptions

There are several key assumptions for schedule development regarding the execution of the Project. The assumptions made addressed Project calendars (weather and holidays) and endangered and threatened species.

Calendars

The proposal schedule has been developed utilizing 13 Project calendars. These calendars were developed utilizing a ten year average from weather recorded from the National Oceanic and Atmospheric Administration (NOAA) weather station located in Williamsburg. Both temperature and precipitation were taken into account to provide an accurate representation of normal weather expected for the Project location. A table of the calendars utilized in the development of the proposal schedule is presented in Table 4.7.4 on page S-10.

Precipitation amounts and temperatures shown in the table are daily averages which will constitute a cut-off point for the associated type of work. Holidays observed by VDOT and not Skanska are:

- Lee Jackson Day
- Columbus Day
- Veterans Day
- Day Before Thanksgiving

Table 4.7.4: Project Calender

Calendar	Holidays	Days Per Week	Temperature (<=)	Precipitation (>=)	Special Time
Calendar Days	N/A	7	N/A	N/A	
Skanska Admin	Skanska	5	N/A	N/A	
VDOT Admin	VDOT	5	N/A	N/A	
Mass Earthwork	Skanska	5	32°	0.25 in	"Drying Day (Rain >1"") No Work Dec 1 - Jan 15"
Roadway & Earthwork	Skanska	5	32°	0.25 in	Drying Day (Rain >1")
Paving & Base	Skanska	5	40°	0.10 in	
Surface Paving	Skanska	5	50°	0.10 in	
Substructure	Skanska	5	N/A	0.50 in	
Substructure	Skanska	6	N/A	0.50 in	
Bridge Decks	Skanska	5	40°	0.25 in	
Bridge Decks	Skanska	6	40°	0.25 in	•••••••
In-Water Work	••••••	5	32°	0.50 in	Fish Window
МОТ		5	N/A	0.50 in	Local Events

The Skanska Team will continue to work on the Project through these holidays.

Threatened & Endangered Species

The proposal schedule makes some assumptions as to the impacts of endangered and threatened species on the schedule. We have accounted for a TOYR for work within Queens Creek from February 15 through June 30, preventing the Skanska Team from being able to install hollow steel pipe piles, used in temporary trestle. However through extensive coordination with the responsible agencies, we are confident that this TOYR will not apply to the installation of the solid square precast piles, used in the permanent structure across Queens Creek. The proposal schedule also accounts for the restriction of tree clearing and demolition of inhabited bridge structures during the rearing period for the Northern Long-Eared Bat, June 1 through July 31. Should the presence of the Bat be detected within the limits of the Project, regular surveys of the area will be performed regularly, from mid-April through mid-September, to ensure the safety of this threatened species. Tree clearing and bridge demolition will be scheduled to avoid this TOYR. However, if bridge demolition cannot be avoided during this period of time, the structure will be netted to prohibit the bats from roosting.

Queens Creek Bridge Construction Sequence Building Information Models



Figure 4.7.3: Existing Queens Creek Bridges



Figure 4.7.4: Construction of 40 foot span construction access trestles. Piles to be installed prior to the beginning of the February Anadromous fish window.



Figure 4.7.5: Phase 1 - Installation of pile foundations and caps for the inside portion of Queens Creek westbound bridge.





Figure 4.7.7: Install stay in place deck forms stainless deck reinforcing steel (rebar splice detail shown for construction of WB widening in Phase 3).



Figure 4.7.8: Install barrier wall on median side and temp barrier on unfinished north side. Hang temporary ITS on median side of WB to maintain camera service. Switch EB traffic onto newly constructed WB using median crossover. Enter Phase 2.



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Figure 4.7.10: Install substructure.







Figure 4.7.12: Pour decks, barrier walls, sound barrier (if required).

Figure 4.7.11: Install superstructure.



Figure 4.7.13: Phase 3 - Shift all traffic from WB bridges onto new EB bridge using temp median. Barrier wall and modified median crossovers. Enter Phase 3.



Figure 4.7.14: Demolish remainder of WB bridge.

Virginia Department of Transportation -I-64 Capacity Improvements, Segment III – 4.7. Proposal Schedule





Figure 4.7.15: Install substructure.

Figure 4.7.16: Install superstructure.





Figure 4.7.17: Stay in place decking, edge forms, splicing stainless steel rebar, pour decks, install ITS, remove trestle, excavate/final grade wider median for wetland opportunity.

Figure 4.7.18: Final configuration. Shift all traffic into final configuration.

Virginia Department of Transportation -I-64 Capacity Improvements, Segment III – 4.7. Proposal Schedule

Colonial Parkway Arch Construction Sequence Building Information Model

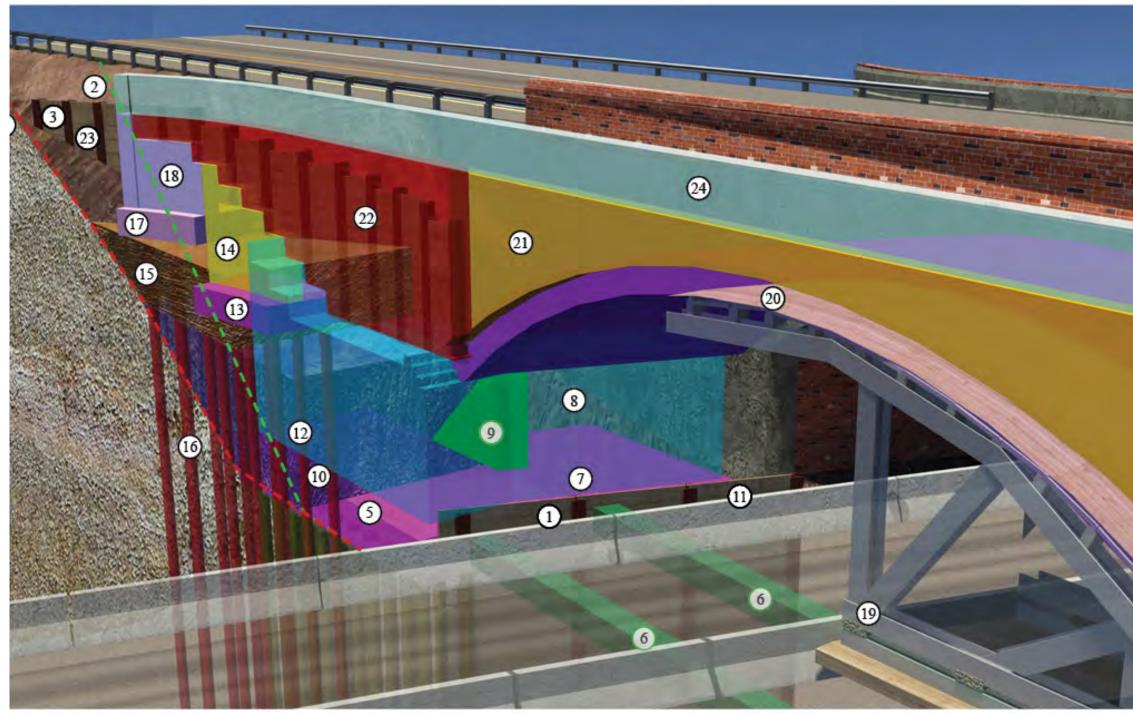


Figure 4.7.19: Colonial Parkway Arch Construction Sequence



- 1. Install SOE Abutment A
- 2. Excavate to Stage 1
- 3. Install SOE Abutment B
- 4. Excavate to Stage 2
- 5. Install 1st level piles
- 6. Install Arch tie through SOE A
- 7. Place 1st level footing
- 8. Place 1st level wall
- 9. Place counterfort
- 10. Backfill 1st level
- 11. Remove SOE A
- **12. Install 2nd level piles**
- 13. Place 2nd level footing
- 14. Place 2nd level wall
- 15. Backfill 2nd level
- **16. Install 3rd level piles**
- **17. Place 3rd level footing**
- **18. Place 3rd level wall**
- **19. Install formwork**
- 20. Place arch span
- 21. Place wall over arch
- 22. Place wing wall
- 23. Remove SOE B and backfill
- 24. Place barrier

Appendix

Form C-78-RFP

ATTACHMENT 3.6

COMMONWEALTH OF VIRGINIA DEPARTMENT OF TRANSPORTATION

RFP NO.	C00106689DB97	
PROJECT NO .:	0064-965-229	

ACKNOWLEDGEMENT OF RFP, REVISION AND/OR ADDENDA

Acknowledgement shall be made of receipt of the Request for Proposals (RFP) and/or any and all revisions and/or addenda pertaining to the above designated project which are issued by the Department prior to the Letter of Submittal submission date shown herein. Failure to include this acknowledgement in the Letter of Submittal may result in the rejection of your proposal.

By signing this Attachment 3.6, the Offeror acknowledges receipt of the RFP and/or following revisions and/or addenda to the RFP for the above designated project which were issued under cover letter(s) of the date(s) shown hereon:

1. Cover letter of	June 21, 2017 – RFP
	(Date)
2. Cover letter of	RFP Addendum No. 1 – July 24, 2017 (Date)
3. Cover letter of	RFP Addendum No. 2 – August 14, 2017
4. Cover letter of	(Date) RFP Addendum No. 3 – September 1, 2017
	(Date)
Stephen Da	September 5, 2017
SIGNATURE	DATE
Stephen Davis	Vice President
PRINTED NAME	TITLE

ATTACHMENT 9.3.1 PROPOSAL PAYMENT AGREEMENT

THIS PROPOSAL PAYMENT AGREEMENT (this "Agreement") is made and entered into as of this ______ day of ______, 2017, by and between the Virginia Department of Transportation ("VDOT"), and ______ Skanska USA Civil Southeast Inc. ("Offeror").

WITNESSETH:

WHEREAS, Offeror is one of the entities who submitted Statements of Qualifications ("SOQs") pursuant to VDOT's March 29, 2017 Request for Qualifications ("RFQ") and was invited to submit proposals in response to a Request for Proposals ("RFP") for the I-64 Capacity Improvements – Segment III, Project No. 0064-965-229 ("Project"), under a design-build contract with VDOT ("Design-Build Contract"); and

WHEREAS, as part of the procurement process for the Project, Offeror has already provided and/or furnished to VDOT, and may continue to provide and/or furnish to VDOT, certain intellectual property, materials, information and ideas, including, but not limited to, such matters that are: (a) conveyed verbally and in writing during proprietary meetings or interviews; and (b) contained in, related to or associated with Offeror's proposal, including, but not limited to, written correspondence, designs, drawings, plans, exhibits, photographs, reports, printed material, tapes, electronic disks, or other graphic and visual aids (collectively "Offeror's Intellectual Property"); and

WHEREAS, VDOT is willing to provide a payment to Offeror, subject to the express conditions stated in this Agreement, to obtain certain rights in Offeror's Intellectual Property, provided that Offeror submits a proposal that VDOT determines to be responsive to the RFP ("Offeror's Proposal"), and either (a) Offeror is not awarded the Design-Build Contract; or (b) VDOT cancels the procurement or decides not to award the Design-Build Contract to any Offeror; and

WHEREAS, Offeror wishes to receive the payment offered by VDOT, in exchange for granting VDOT the rights set forth in this Agreement.

NOW, THEREFORE, in consideration of the mutual covenants and agreements set forth in this Agreement and other good and valuable consideration, the receipt and adequacy of which are acknowledged by the parties, the parties agree as follows:

Request for Proposals	I-64 Capacity Improvements – Segment III
Part 1	York County, Virginia
Instructions for Offerors	Project No. 0064-965-229
June 21, 2017	Contract ID # C00106689DB97

1. <u>VDOT's Rights in Offeror's Intellectual Property</u>. Offeror hereby conveys to VDOT all rights, title and interest, free and clear of all liens, claims and encumbrances, in Offeror's Intellectual Property, which includes, without restriction or limitation, the right of VDOT, and anyone contracting with VDOT, to incorporate any ideas or information from Offeror's Intellectual Property into: (a) the Design-Build Contract and the Project; (b) any other contract awarded in reference to the Project; or (c) any subsequent procurement by VDOT. In receiving all rights, title and interest in Offeror's Intellectual Property, VDOT is deemed to own all intellectual property rights, copyrights, patents, trade secrets, trademarks, and service marks in Offeror's Intellectual Property, and Offeror agrees that it shall, at the request of VDOT, execute all papers and perform all other acts that may be necessary to ensure that VDOT's rights, title and interest in Offeror's Intellectual Property without the obligation to notify or seek permission from Offeror.

2. <u>Exclusions from Offeror's Intellectual Property</u>. Notwithstanding Section 1 above, it is understood and agreed that Offeror's Intellectual Property is not intended to include, and Offeror does not convey any rights to, the Escrow Proposal Documents submitted by Offeror in accordance with the RFP.

3. <u>Proposal Payment</u>. VDOT agrees to pay Offeror the lump sum amount of **One Hundred Thousand and 00/100 Dollars (\$100,000.00)** ("Proposal Payment"), which payment constitutes payment in full to Offeror for the conveyance of Offeror's Intellectual Property to VDOT in accordance with this Agreement. Payment of the Proposal Payment is conditioned upon: (a) Offeror's Proposal being, in the sole discretion of VDOT, responsive to the RFP; (b) Offeror complying with all other terms and conditions of this Agreement; and (c) either (i) Offeror is not awarded the Design-Build Contract, or (ii) VDOT cancels the procurement or decides not to award the Design-Build Contract to any Offeror.

4. <u>Payment Due Date</u>. Subject to the conditions set forth in this Agreement, VDOT will make payment of the Proposal Payment to the Offeror within forty-five (45) days after the later of: (a) notice from VDOT that it has awarded the Design-Build Contract to another Offeror; or (b) notice from VDOT that the procurement for the Project has been cancelled and that there will be no Contract Award.

5. <u>Effective Date of this Agreement</u>. The rights and obligations of VDOT and Offeror under this Agreement, including VDOT's ownership rights in Offeror's Intellectual Property, vests upon the date that Offeror's Proposal is submitted to VDOT. Notwithstanding the above, if Offeror's Proposal is determined by VDOT, in its sole discretion, to be nonresponsive to the RFP, then Offeror is deemed to have waived its right to obtain the Proposal Payment, and VDOT shall have no obligations under this Agreement.

Request for Proposals	I-64 Capacity Improvements – Segment III
Part 1	York County, Virginia
Instructions for Offerors	Project No. 0064-965-229
June 21, 2017	Contract ID # C00106689DB97

6. <u>Indemnity</u>. Subject to the limitation contained below, Offeror shall, at its own expense, indemnify, protect and hold harmless VDOT and its agents, directors, officers, employees, representatives and contractors from all claims, costs, expenses, liabilities, demands, or suits at law or equity ("Claims") of, by or in favor of or awarded to any third party arising in whole or in part from: (a) the negligence or wilful misconduct of Offeror or any of its agents, officers, employees, representatives or subcontractors; or (b) breach of any of Offeror's obligations under this Agreement, including its representation and warranty under Section 8 hereof. This indemnity shall not apply with respect to any Claims caused by or resulting from the sole negligence or wilful misconduct of VDOT, or its agents, directors, officers, employees, representatives or contractors.

7. <u>Assignment</u>. Offeror shall not assign this Agreement, without VDOT's prior written consent, which consent may be given or withheld in VDOT's sole discretion. Any assignment of this Agreement without such consent shall be null and void.

8. <u>Authority to Enter into this Agreement</u>. By executing this Agreement, Offeror specifically represents and warrants that it has the authority to convey to VDOT all rights, title, and interest in Offeror's Intellectual Property, including, but not limited to, those any rights that might have been vested in team members, subcontractors, consultants or anyone else who may have contributed to the development of Offeror's Intellectual Property, free and clear of all liens, claims and encumbrances.

9. <u>Miscellaneous</u>.

a. Offeror and VDOT agree that Offeror, its team members, and their respective employees are not agents of VDOT as a result of this Agreement.

b. Any capitalized term used herein but not otherwise defined shall have the meanings set forth in the RFP.

c. This Agreement, together with the RFP, embodies the entire agreement of the parties with respect to the subject matter hereof. There are no promises, terms, conditions, or obligations other than those contained herein or in the RFP, and this Agreement shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties hereto.

d. It is understood and agreed by the parties hereto that if any part, term, or provision of this Agreement is by the courts held to be illegal or in conflict with any law of the Commonwealth of Virginia, validity of the remaining portions or provisions shall not be affected, and the rights and obligations of the parties shall be construed and enforced as if the Agreement did not contain the particular part, term, or provisions to be invalid.

e. This Agreement shall be governed by and construed in accordance with the laws of the Commonwealth of Virginia.

Request for Proposals Part 1 Instructions for Offerors June 21, 2017

IN WITNESS WHEREOF, this Agreement has been executed and delivered as of the day and year first above written.

VIRGINIA DEPARTMENT OF TRANSPORTATION

Ву:	 	
Name:		
Title:		

SKANSKA USA CIVIL SOUTHEAST INC.

By:	Stephen David
Name:	Stephen Davis
Title:	Vice President

Project No.: 0064-965-229 Contract ID: C00106689DB97

1) The prospective primary participant certifies to the best of its knowledge and belief, that it and its principals:

a) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency.

b) Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; and have not been convicted of any violations of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification, or destruction of records, making false statements, or receiving stolen property;

c) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph 1) b) of this certification; and

d) Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.

2) Where the prospective primary participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

The undersigned makes the foregoing statements to be filed with the proposal submitted on behalf of the Offeror for contracts to be let by the Commonwealth Transportation Board.

Vice President 09/11/2017 Title Date ignature

Skanska USA Civil Southeast Inc.

Name of Firm

Project No.: 0064-965-229 Contract ID: C00106689DB97

1) The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.

2) Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

The undersigned makes the foregoing statements to be filed with the proposal submitted on behalf of the Offeror for contracts to be let by the Commonwealth Transportation Board.

Mary Church 8/25/2017 Vice President Signature Date Date Title

KCI Technologies, Inc. Name of Firm

Project No.: 0064-965-229 Contract ID: C00106689DB97

1) The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.

2) Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

The undersigned makes the foregoing statements to be filed with the proposal submitted on behalf of the Offeror for contracts to be let by the Commonwealth Transportation Board.

Vice President/Area Manager July 17, 2017 vell Title Signature Date

WSP USA, Inc.

Name of Firm

Project No.: 0064-965-229 Contract ID: C00106689DB97

1) The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.

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The undersigned makes the foregoing statements to be filed with the proposal submitted on behalf of the Offeror for contracts to be let by the Commonwealth Transportation Board.

2017 Date gnature

Senior Vice President/Regional Manager Title

Vanasse Hangen Brustlin, Inc. (VHB) Name of Firm

Project No.: 0064-965-229 Contract ID: C00106689DB97

1) The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.

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The undersigned makes the foregoing statements to be filed with the proposal submitted on behalf of the Offeror for contracts to be let by the Commonwealth Transportation Board.

CavelDityper guly 14,2017 President Signature Date Date Title

Civcar Cultural Resource Management, UL Name of Firm

Project No.: 0064-965-229 Contract ID: C00106689DB97

1) The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.

2) Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

The undersigned makes the foregoing statements to be filed with the proposal submitted on behalf of the Offeror for contracts to be let by the Commonwealth Transportation Board.

July 14, 2017 Signature Date

Vice President Title

<u>H&B Surveying and Mapping, LLC</u> Name of Firm

Project No.: 0064-965-229 Contract ID: C00106689DB97

1) The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.

2) Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

The undersigned makes the foregoing statements to be filed with the proposal submitted on behalf of the Offeror for contracts to be let by the Commonwealth Transportation Board.

7/14/2017 Signature Date

President Title

Hassan Water Resources, PLC Name of Firm

Project No.: 0064-965-229 Contract ID: C00106689DB97

1) The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.

2) Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

The undersigned makes the foregoing statements to be filed with the proposal submitted on behalf of the Offeror for contracts to be let by the Commonwealth Transportation Board.

2 8/25/17 Signature Date

President Title

GET Solutions, Inc.

Name of Firm

Project No.: 0064-965-229 Contract ID: C00106689DB97

1) The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.

2) Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

The undersigned makes the foregoing statements to be filed with the proposal submitted on behalf of the Offeror for contracts to be let by the Commonwealth Transportation Board.

07/14/17 Signatur Date

President & CEO Title

Harris Miller Miller & Hanson Inc.

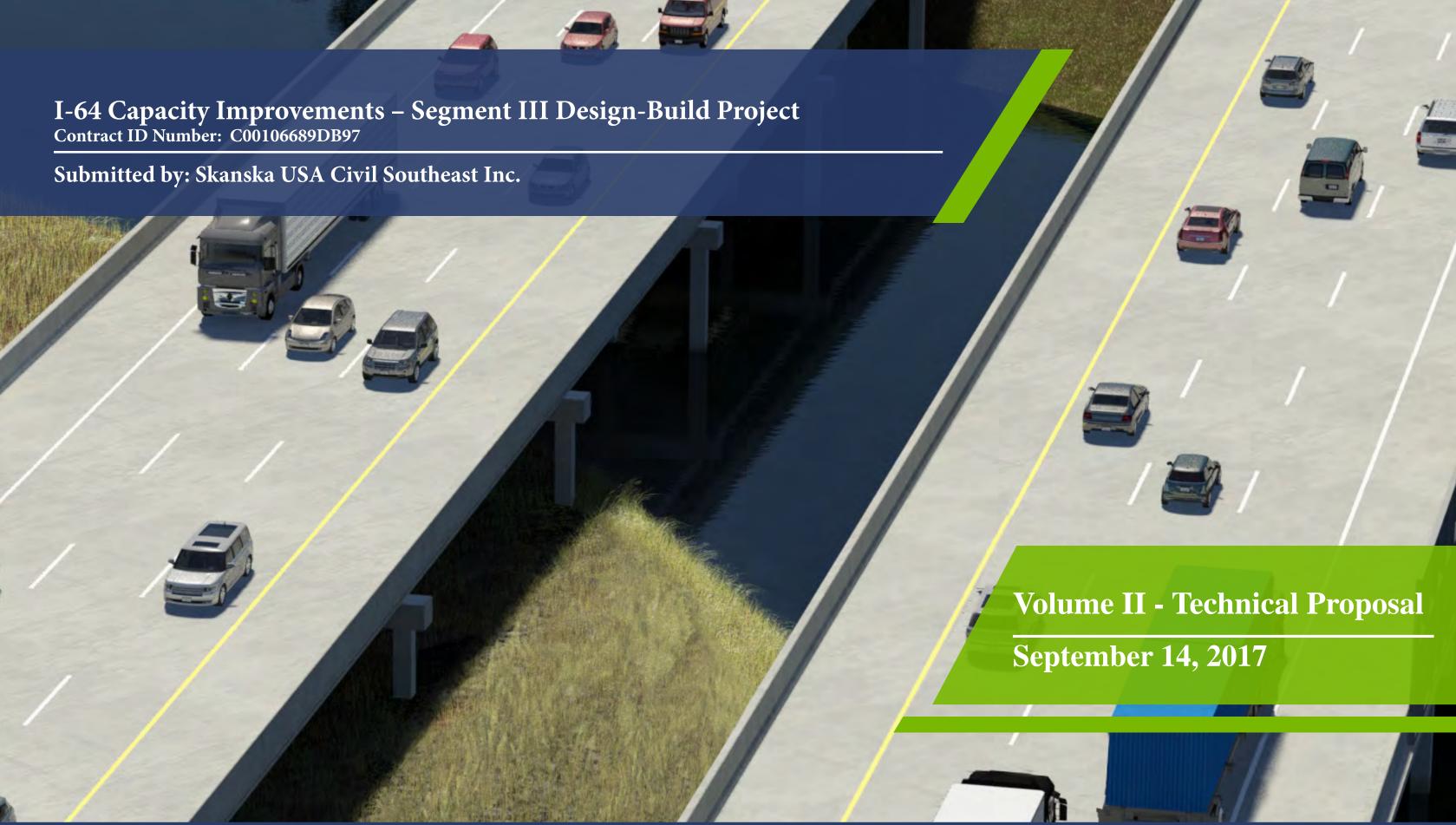
Name of Firm

I-64 Capacity Improvements -Seg III VDOT Project #: 0064-965-

Submitted by: Skanska USA Civil Southeast Inc.

September 14, 2017



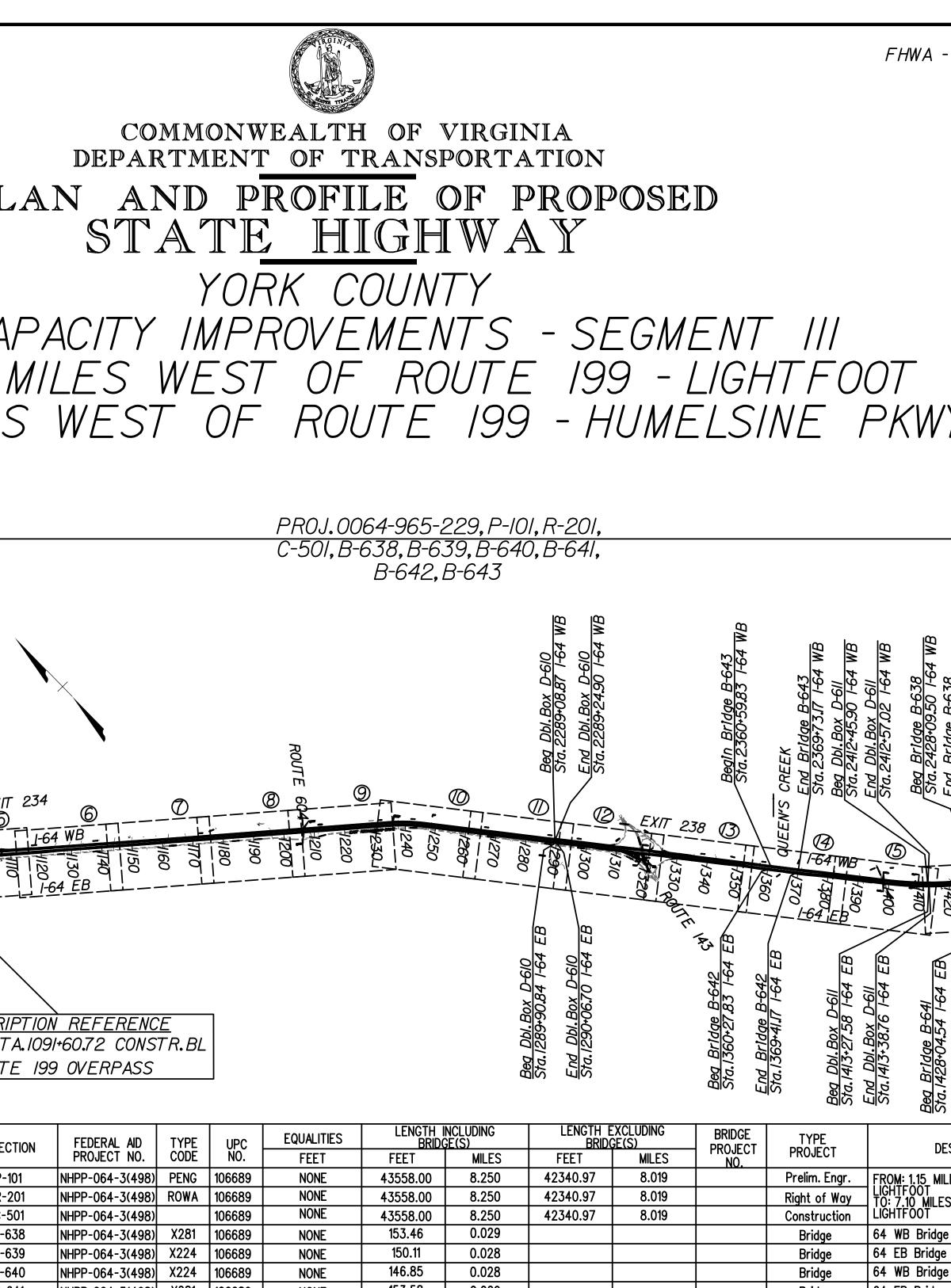




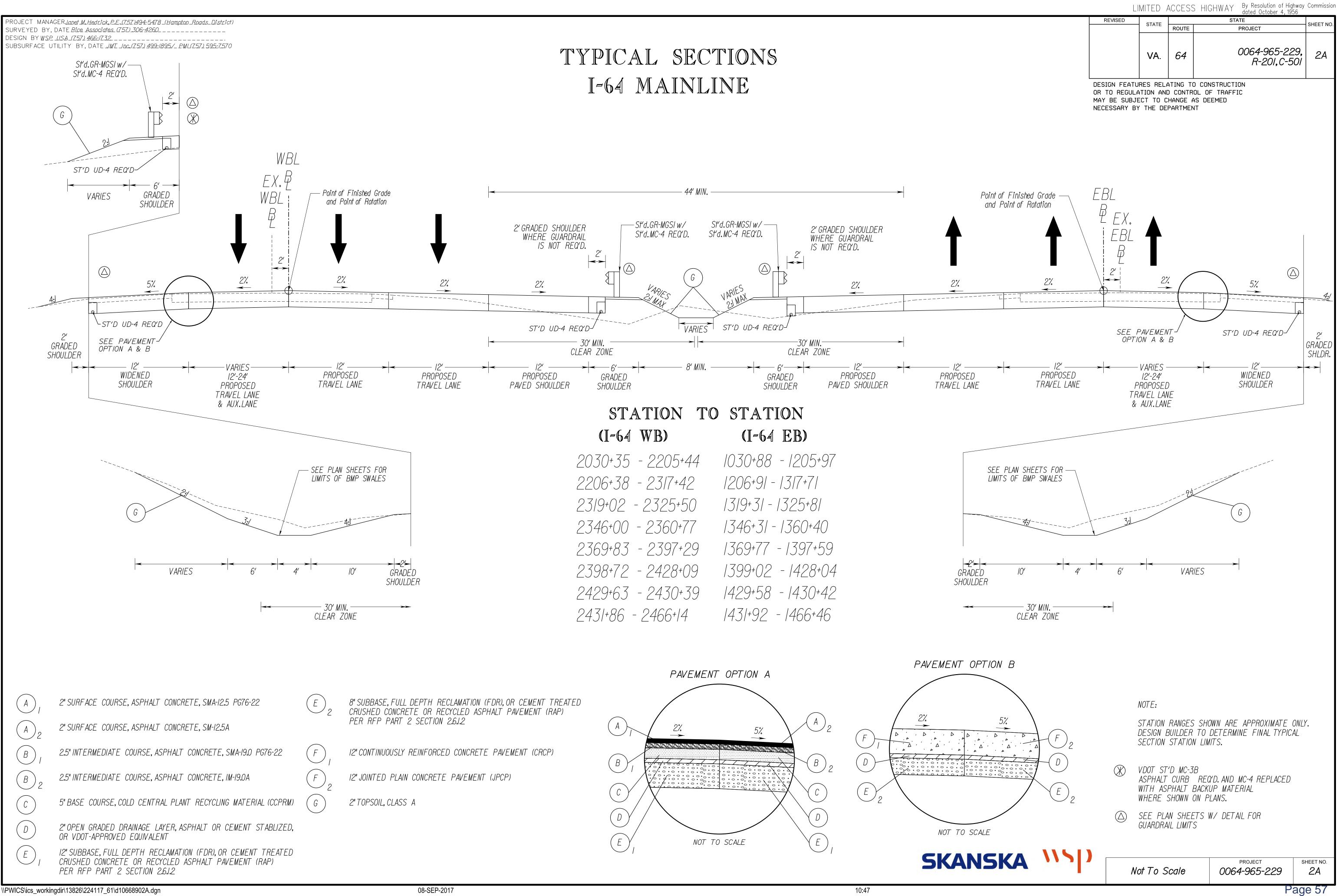


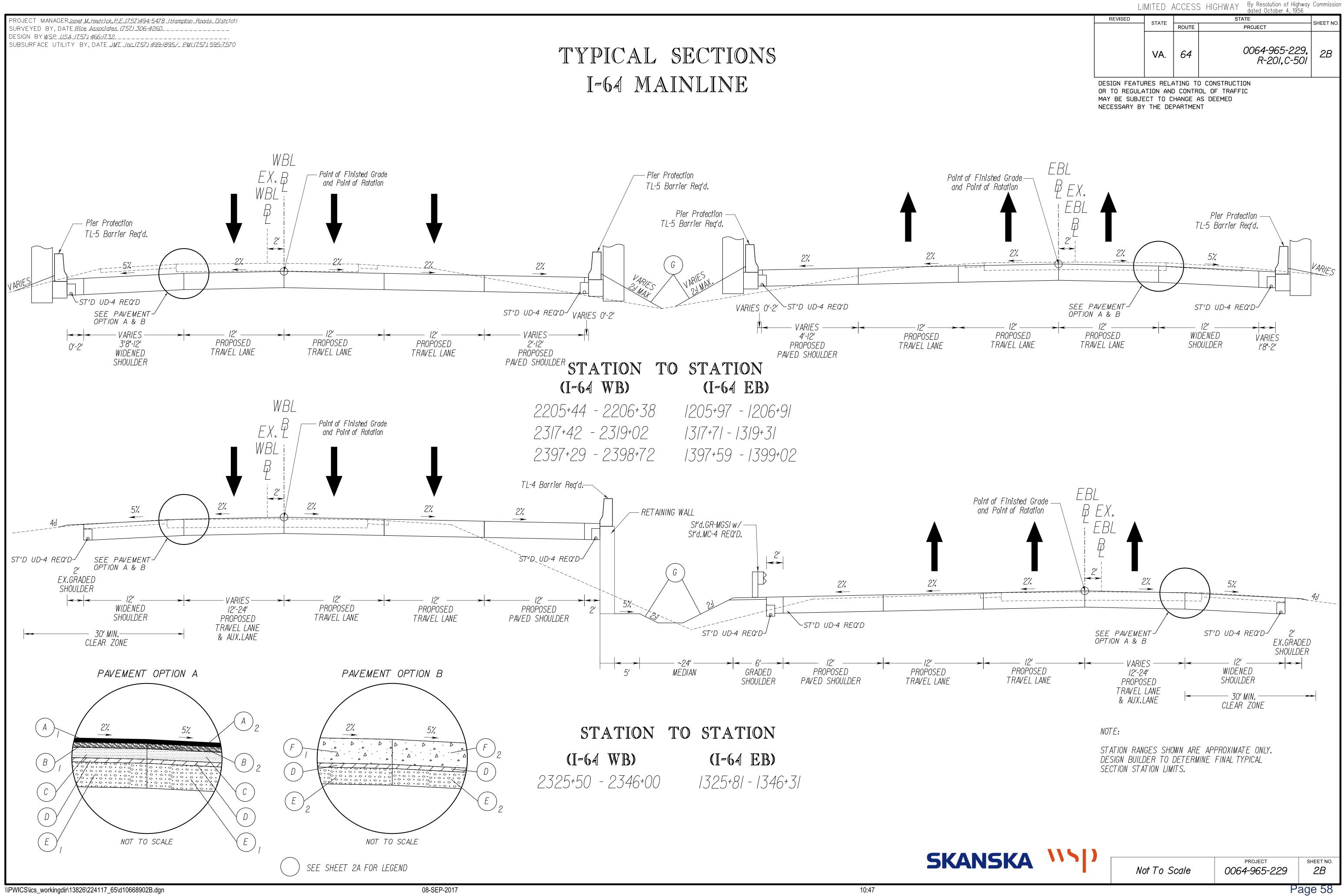
4.3 Conceptual Plans

	THIS PROJECT WAS DEVELOPED UTILIZING THE DEPARTMENT'S ENGINEERING DESIGN PACKAGE (GEOPAK). GEOPAK Computer Identification No. <u>106689/109790</u>	G
Roads District) 1.595-7.570	THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY. FROM: TO: 1.05	
PROJECT MANAGER Janet M. Hedrick, P.E. (757). 494-5478. (Hampton, F SURVEYED BY, DATE Rice. Associates. (757). 306-4260 DESIGN BY WSP. USA. (757). 466-1732	CONVENTIONAL SIGNS STATE LINE CONVENTIONAL SIGNS STATE LINE COUNTY COUNTY LINE COUNTY LINE COUNTY COUNT	DESCRI 1-64 EB ST
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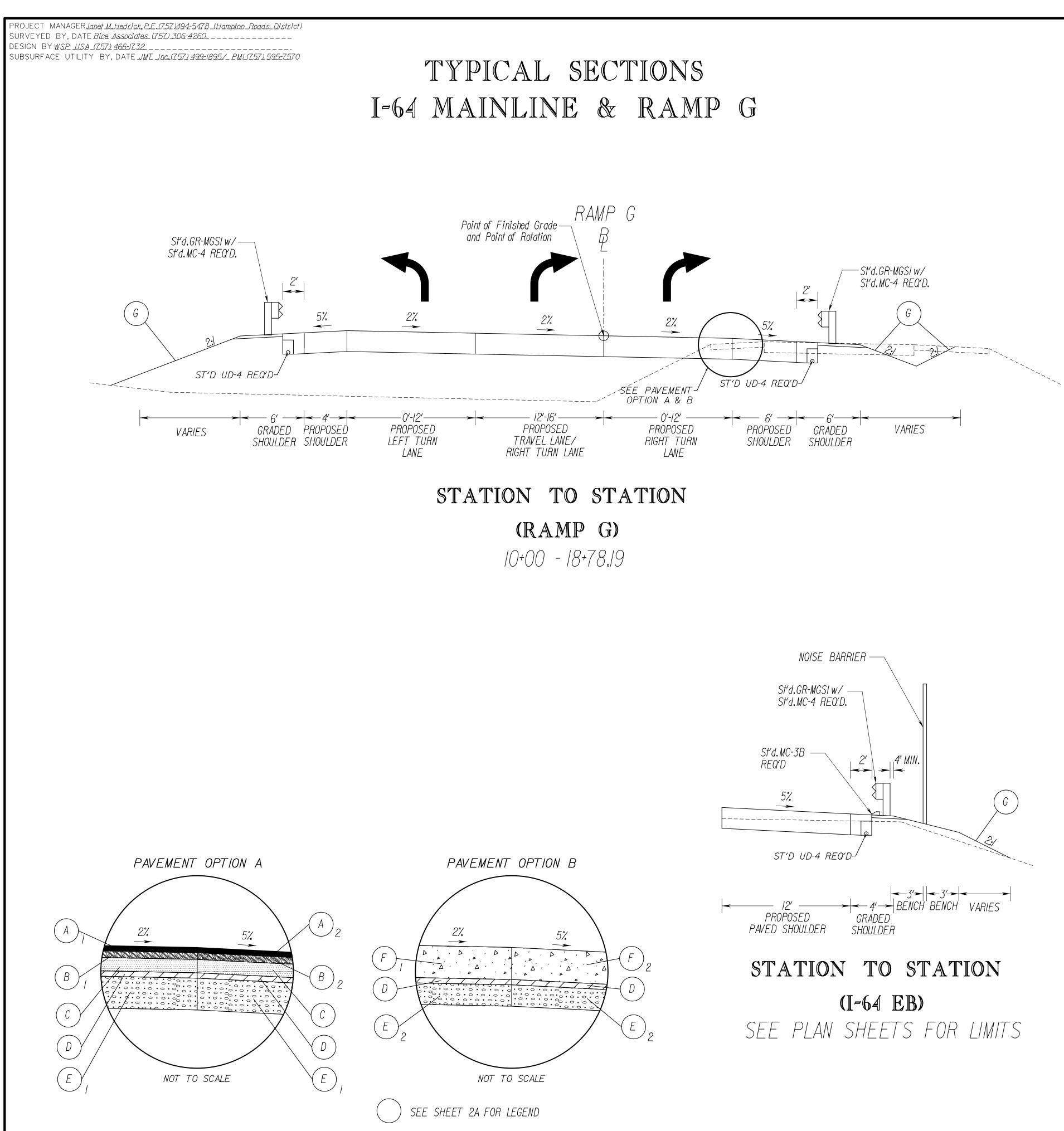


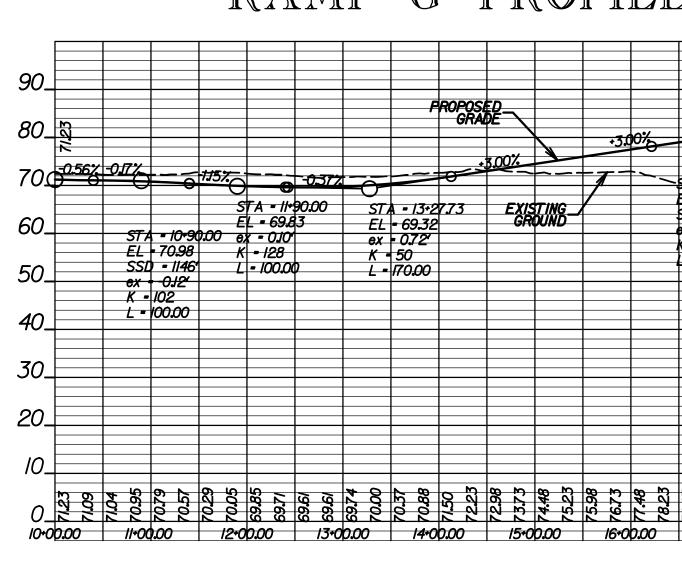
	FHWA - 534 DATA IIIO3	TATE SHEET PROJECT NO.
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COMMONWEALTH OF VIRGINIA	(SEE TABULATION BELOW FOR SECTION NUMBERS) (SEE TA FOR SECTION NUMBERS)	ABULATION BELOW ECTION NUMBERS)
DEPARTMENT OF TRANSPORTATION	FUNCTIONAL CLASSIFICATION AND	
LAN AND PROFILE OF PROPOSED	Interstate - Rural Principal Arterial - 75 MPH	· ·
STATE HIGHWAY	FROM: 1.15 MILES WEST OF ROUTE TO: 1.05 MILES WEST OF ROUTE 199	- HUMELSINE PKWY
YORK COUNTY	ADT (2018) 74,500 ADT (2040) 108,000	
	DHV (2040) 8,000 D (%) (design hour) 55%	
APACITY IMPROVEMENTS - SEGMENT III	T (%) (design hour) 8%	
MILES WEST OF ROUTE 199 - LIGHTF		/e design speeds
S WEST OF ROUTE 199 - HUMELSINE		s for Exception Approval Date
	I-64 WB at	a for Exception Approval Date ulder Width 02/10/17
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B-642, B-643	B-633,B-634,B-635,D-603,D-6 D-607,D-608	U4,D-605,D-606,
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-638 NHPP-064-3(498) X281 106689 NONE 153.46 0.029 Bridge -639 NHPP-064-3(498) X224 106689 NONE 150.11 0.028 Bridge	64 EB Bridge @ Colonial Pkwy REVISED	
-640 NHPP-064-3(498) X224 106689 NONE 146.85 0.028 Bridge -641 NHPP-064-3(498) X281 106689 NONE 153.58 0.029 Bridge	64 EB Bridge @ Lakeshead Drive	AND BRIDGE ENGINEER
-642 NHPP-064-3(498) X081 106689 NONE 913.34 0.173 Bridge -643 NHPP-064-3(498) X081 106689 NONE 913.34 0.173 Bridge	64 EB Bridge @ Queens Creek	MMING AND PLANNING
-609 NHPP-064-3(498) X028 106689 NONE 83.75 0.016 Box Culve		CONSTRUCTION
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Project Lengths are based on I-64 EB Construction Baseline.	York County Population 65,464 (2010 Census) Copyright 2017, Common	RATOR ADMINISTRATION OF TRANSPORTATION

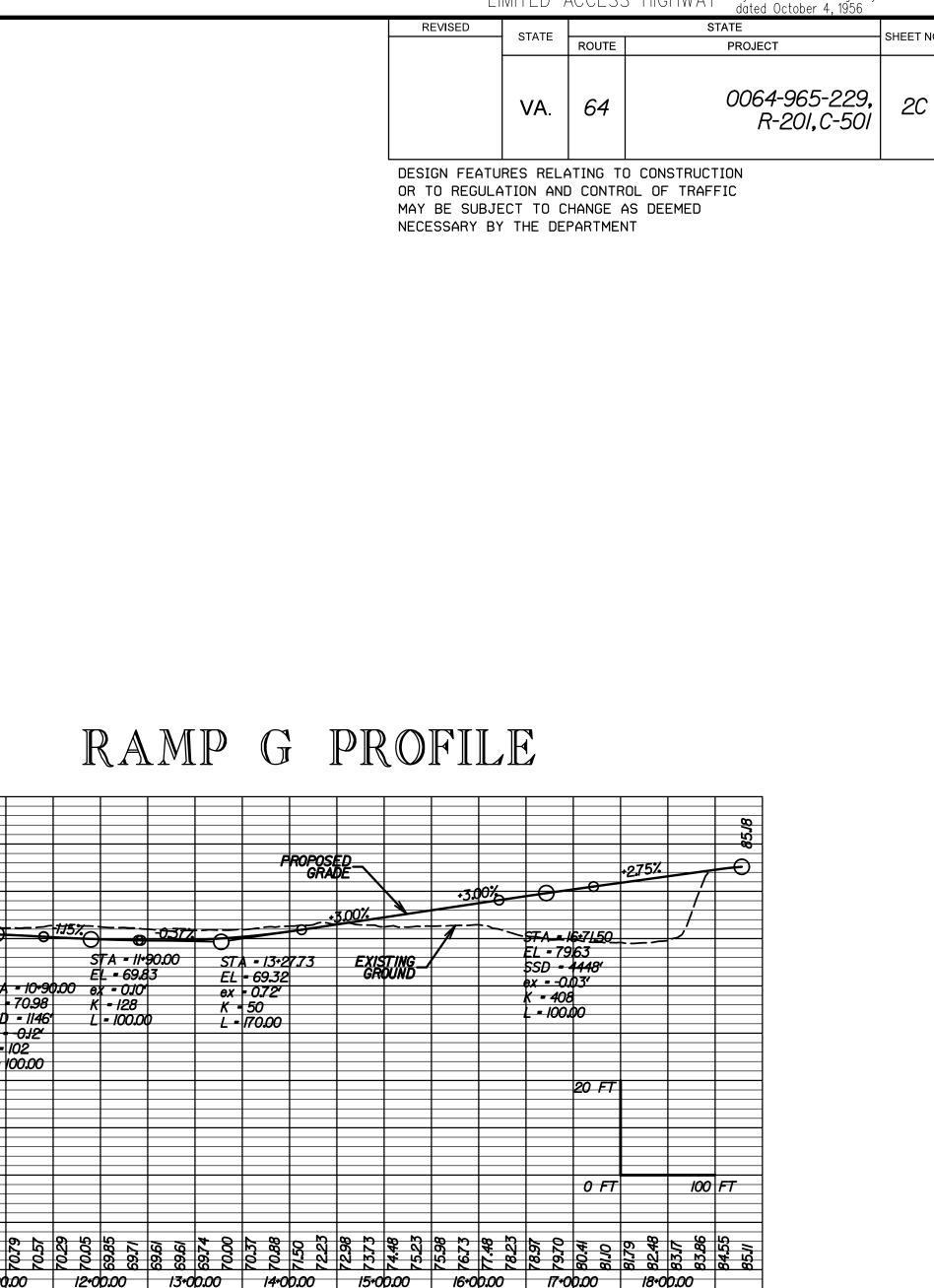


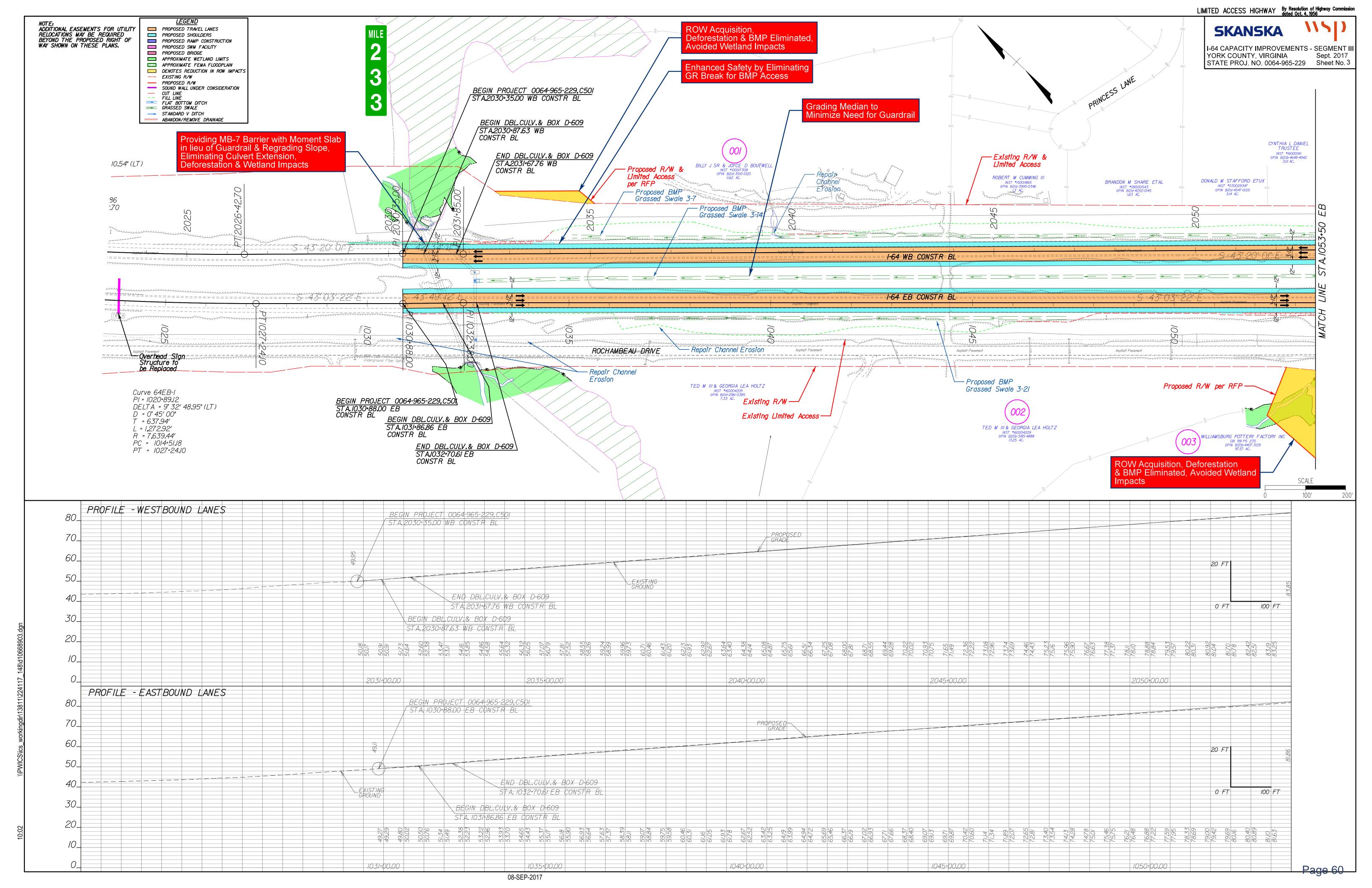


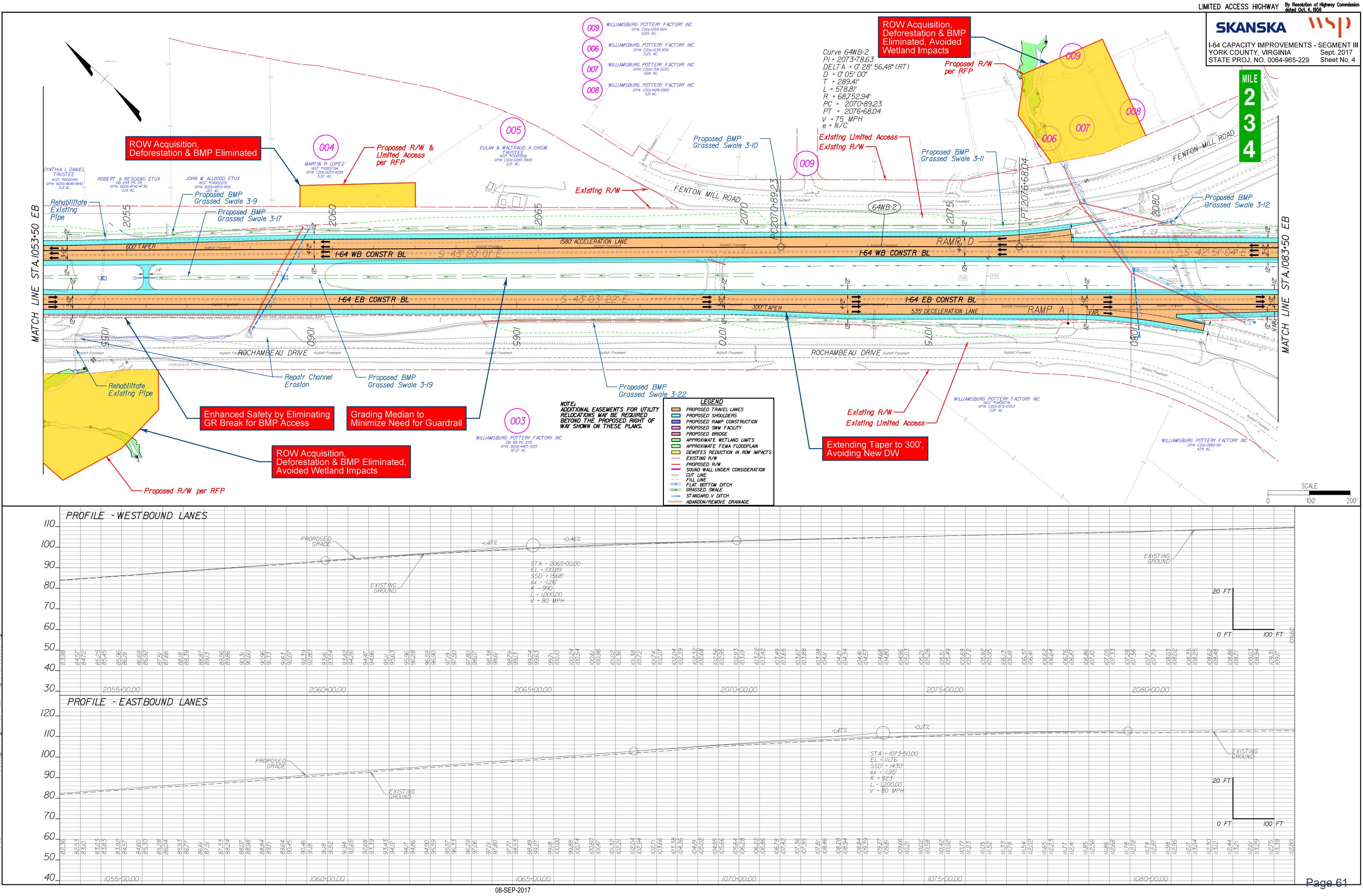
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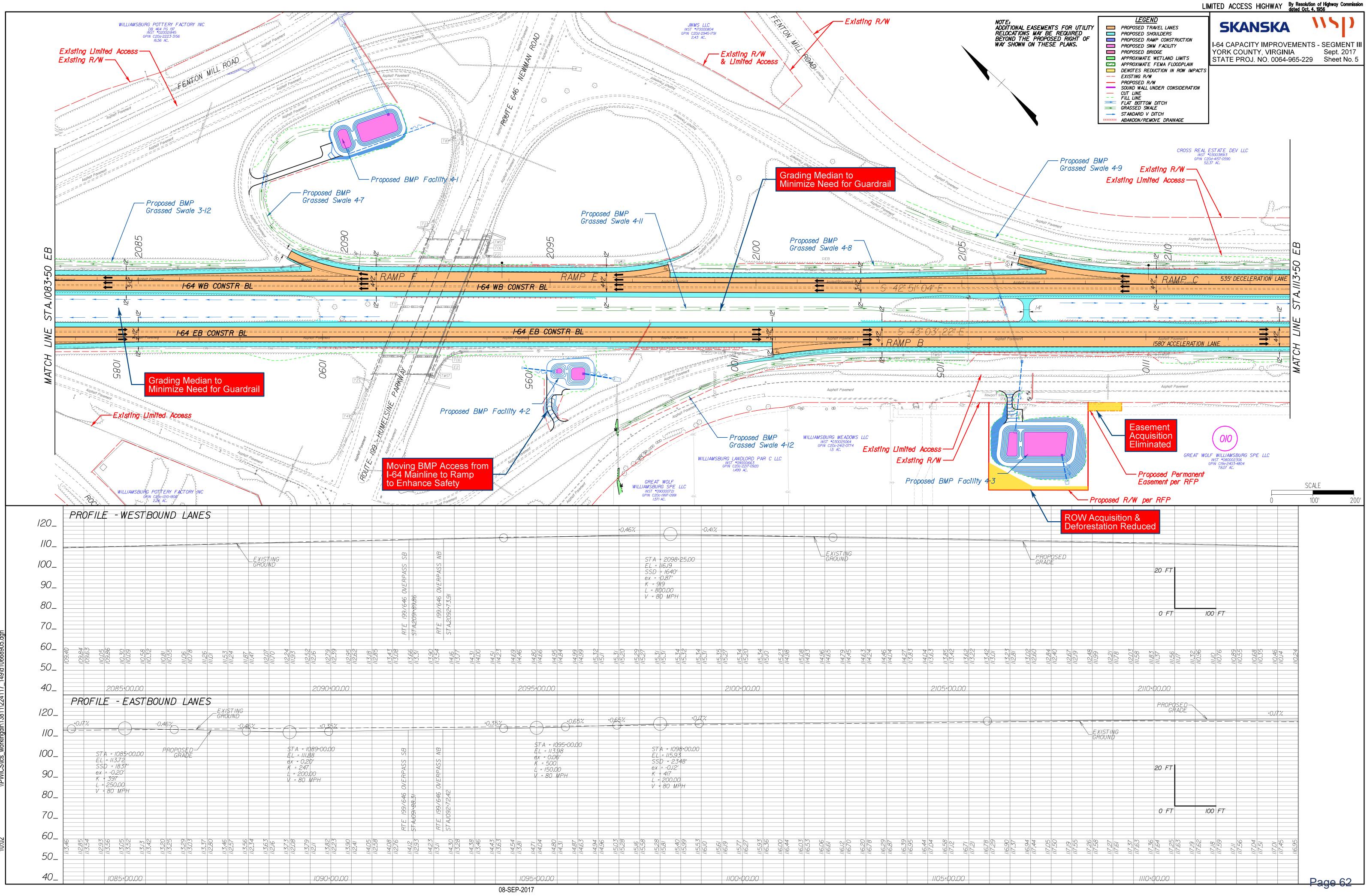


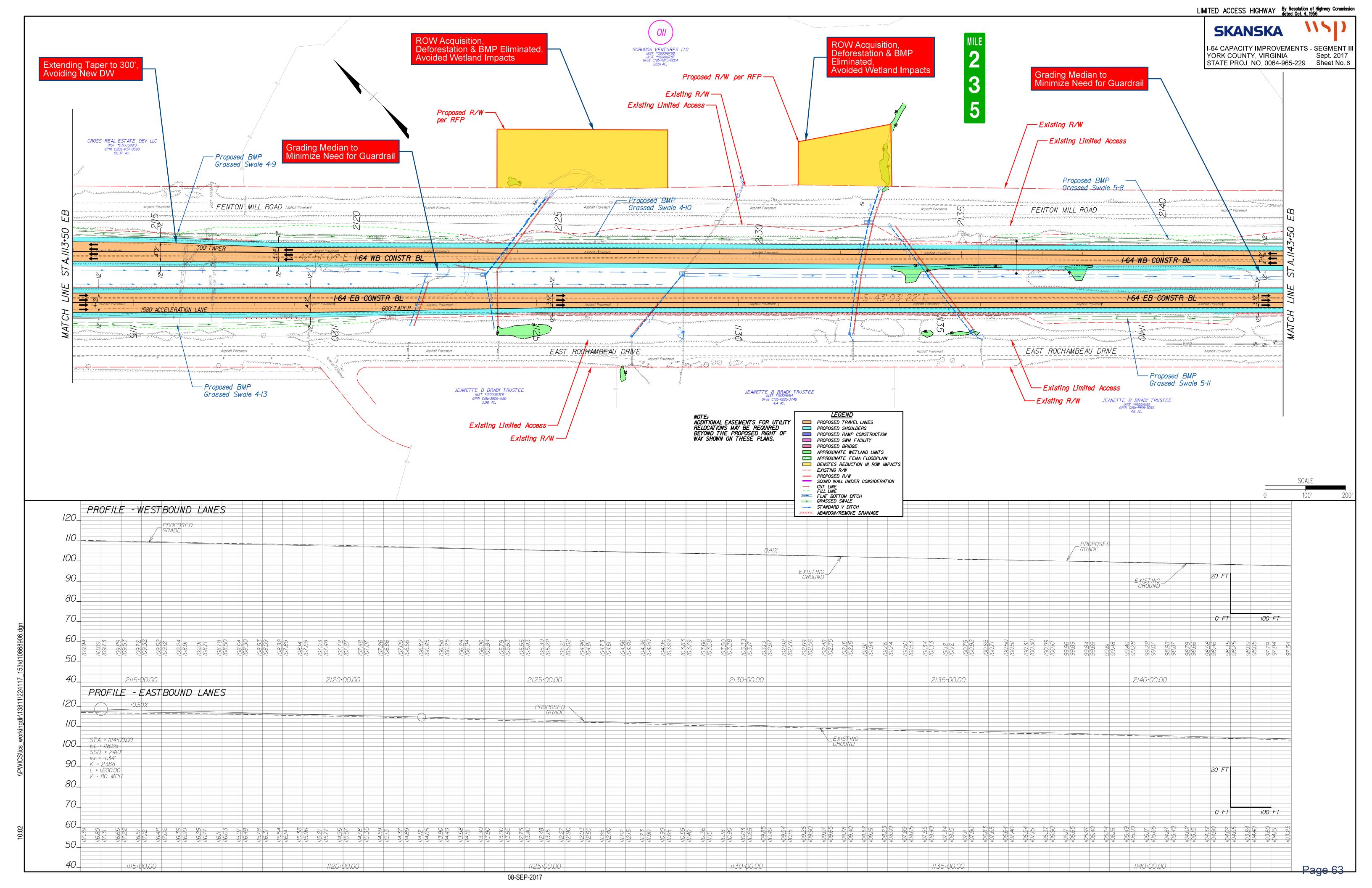


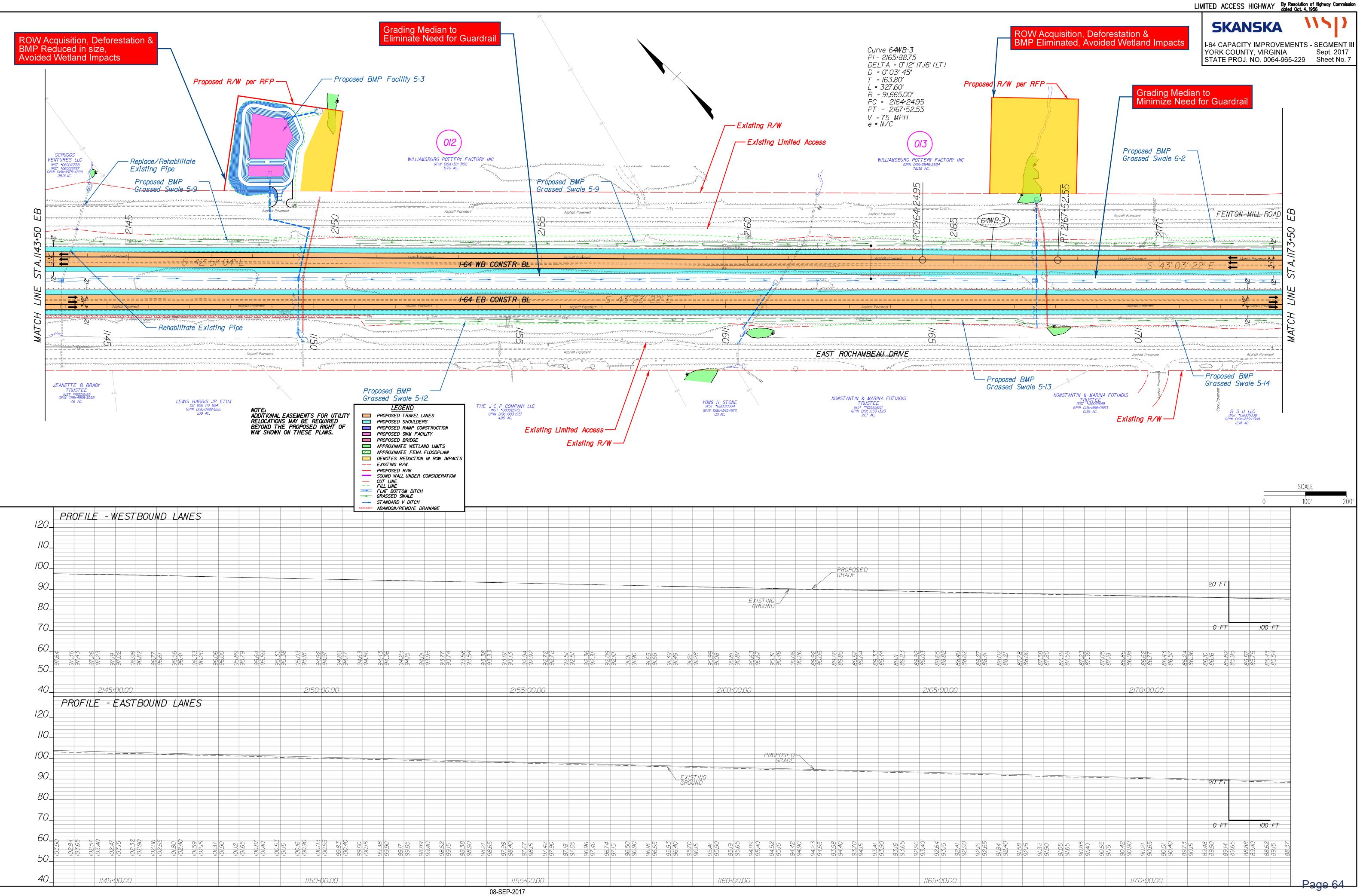




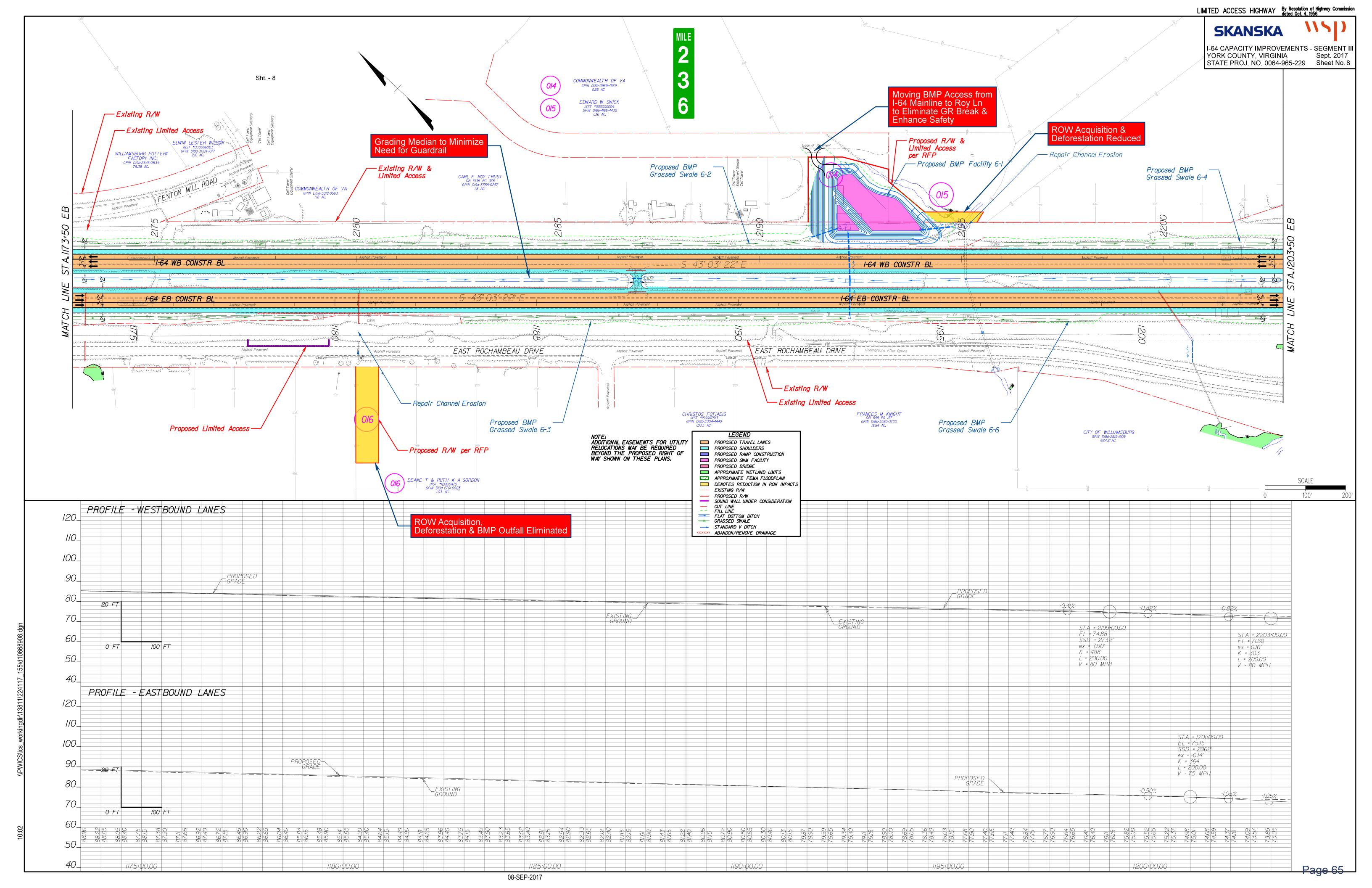
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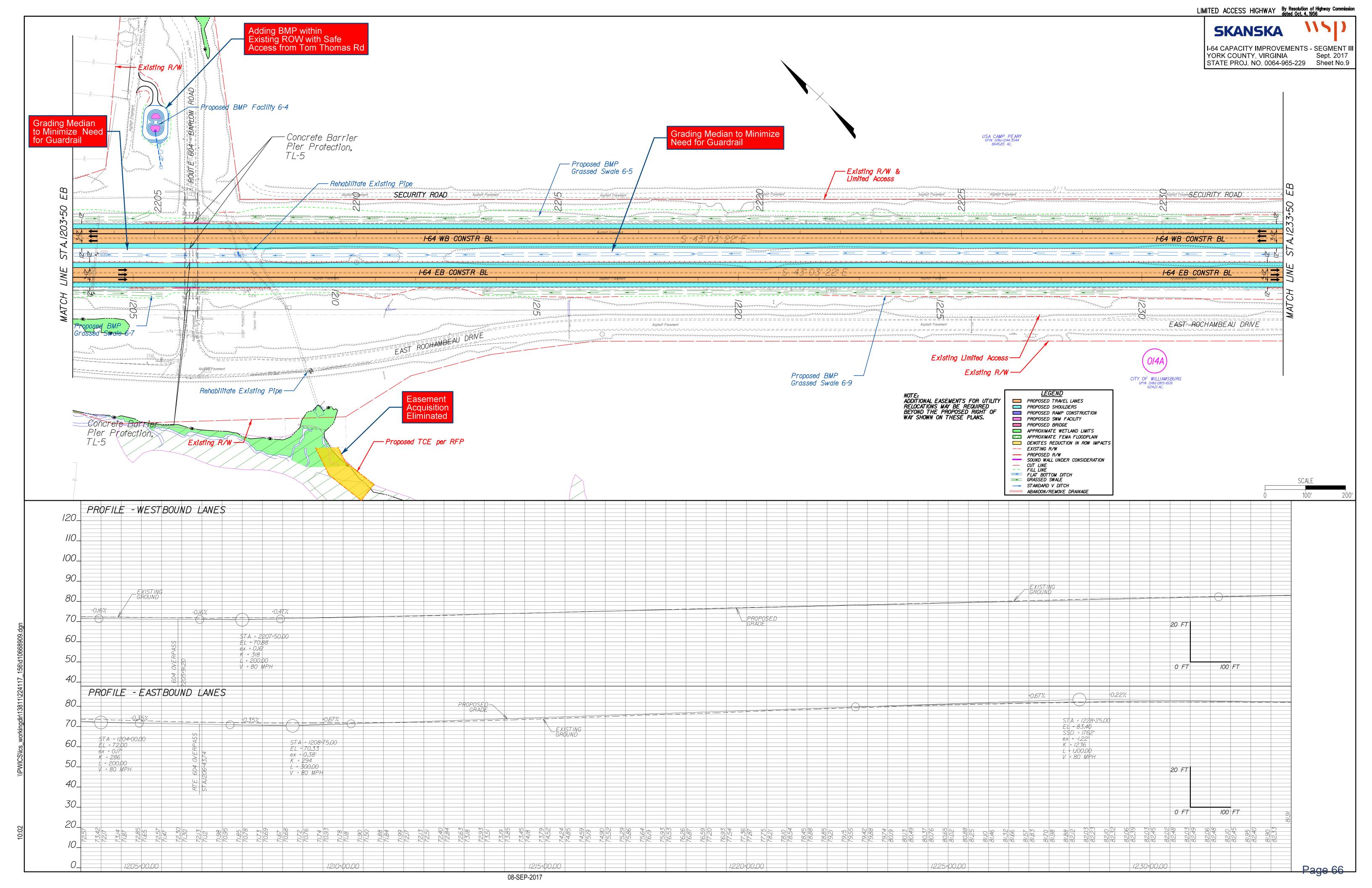


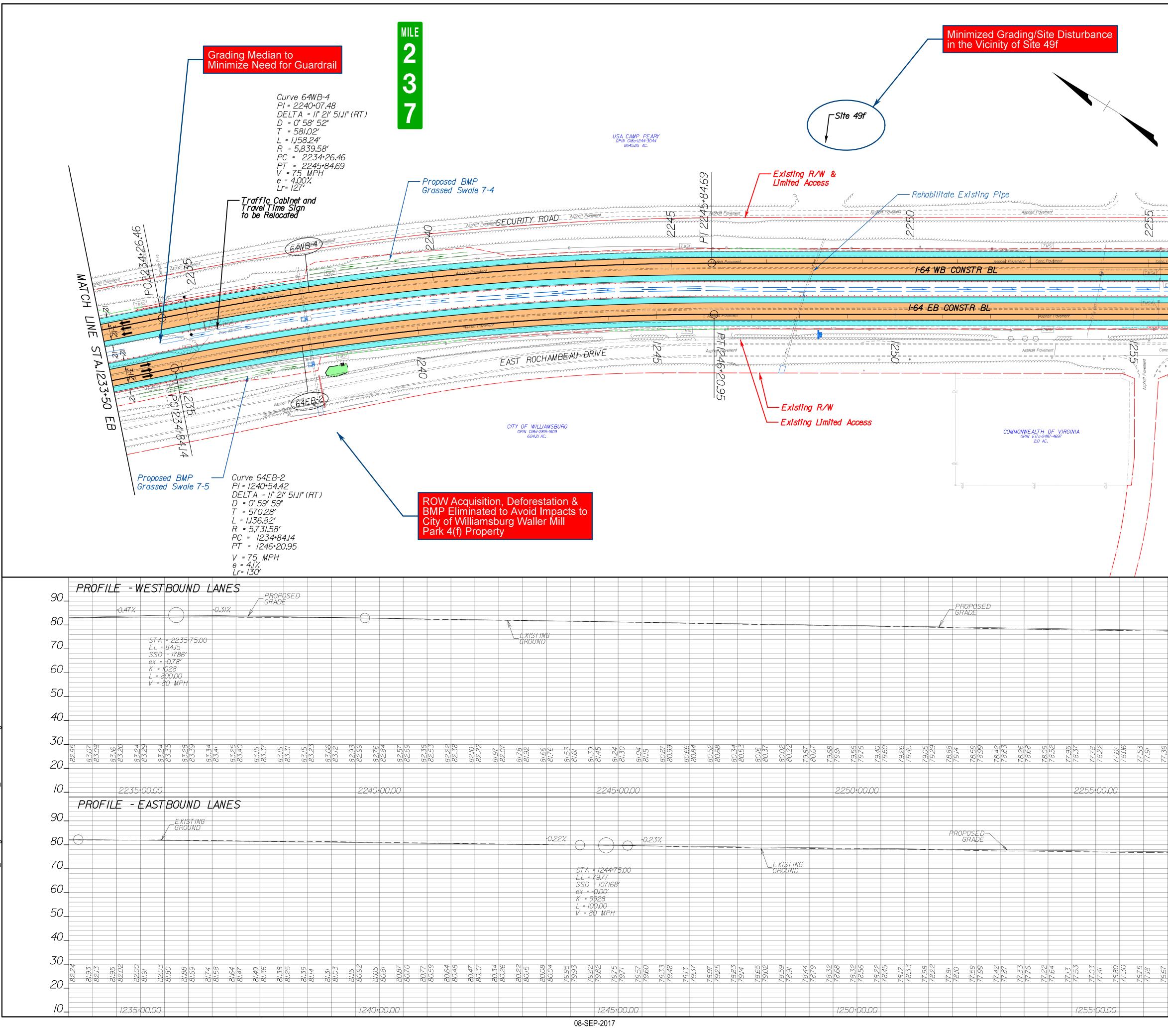




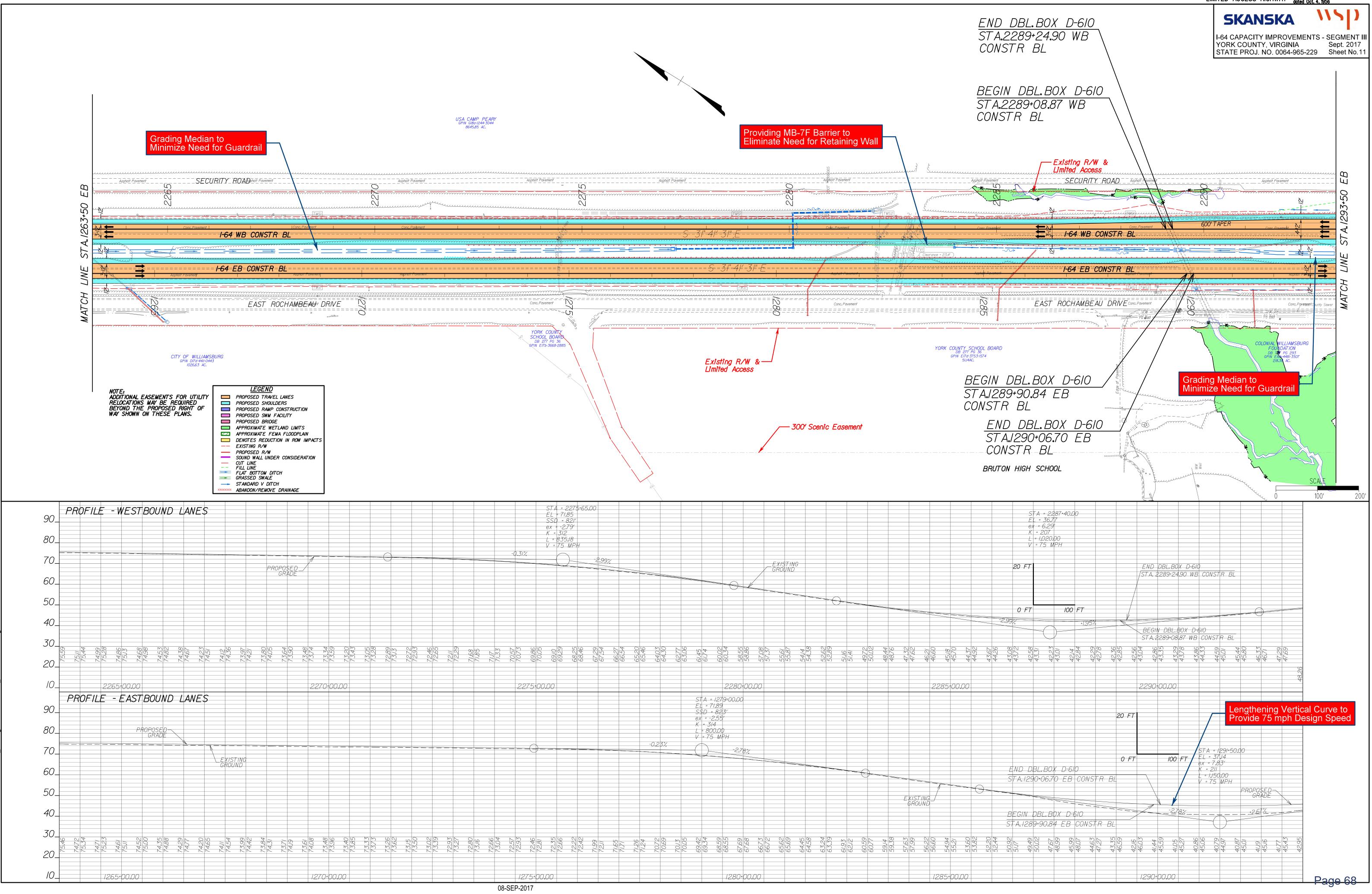
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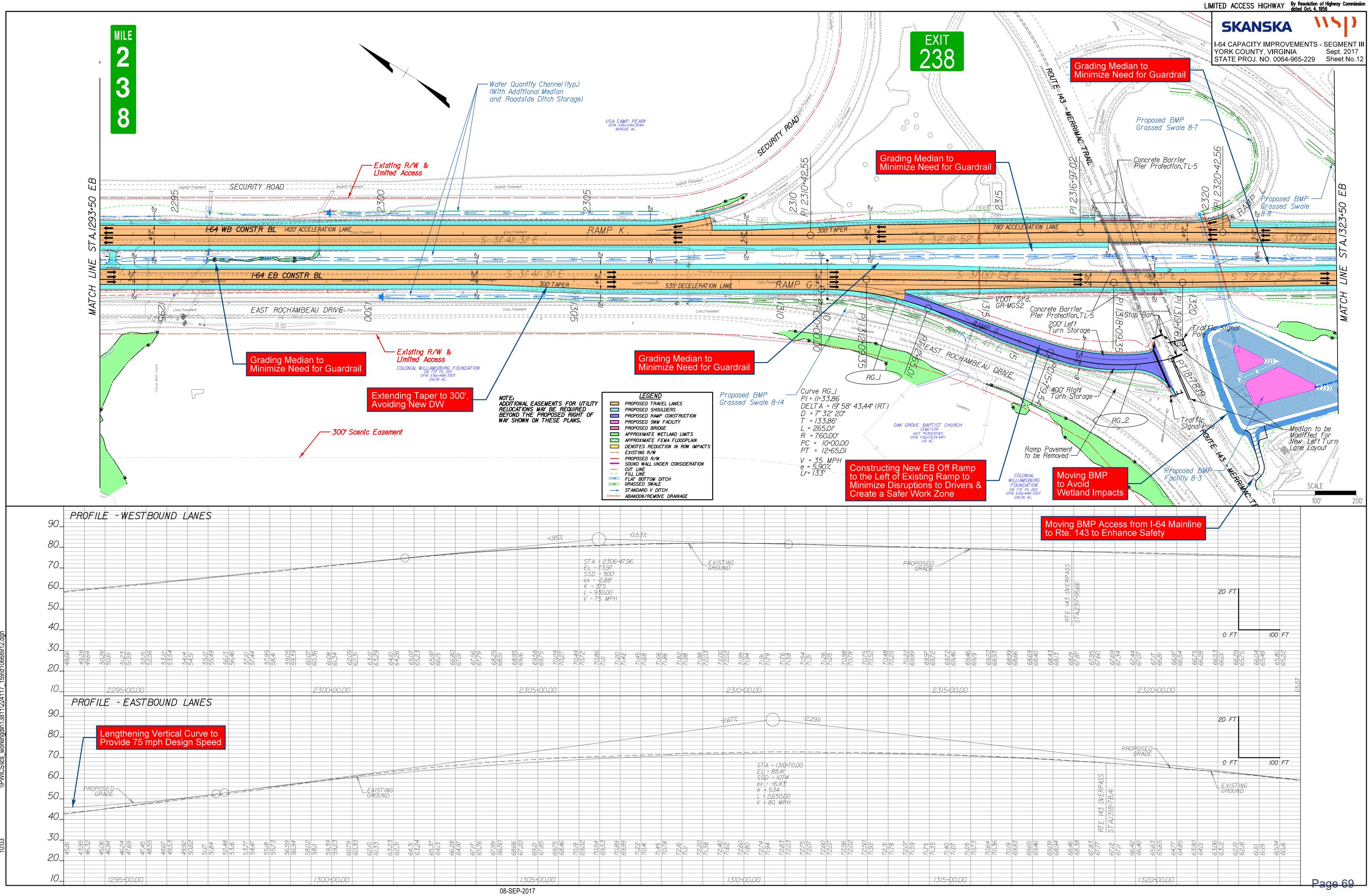


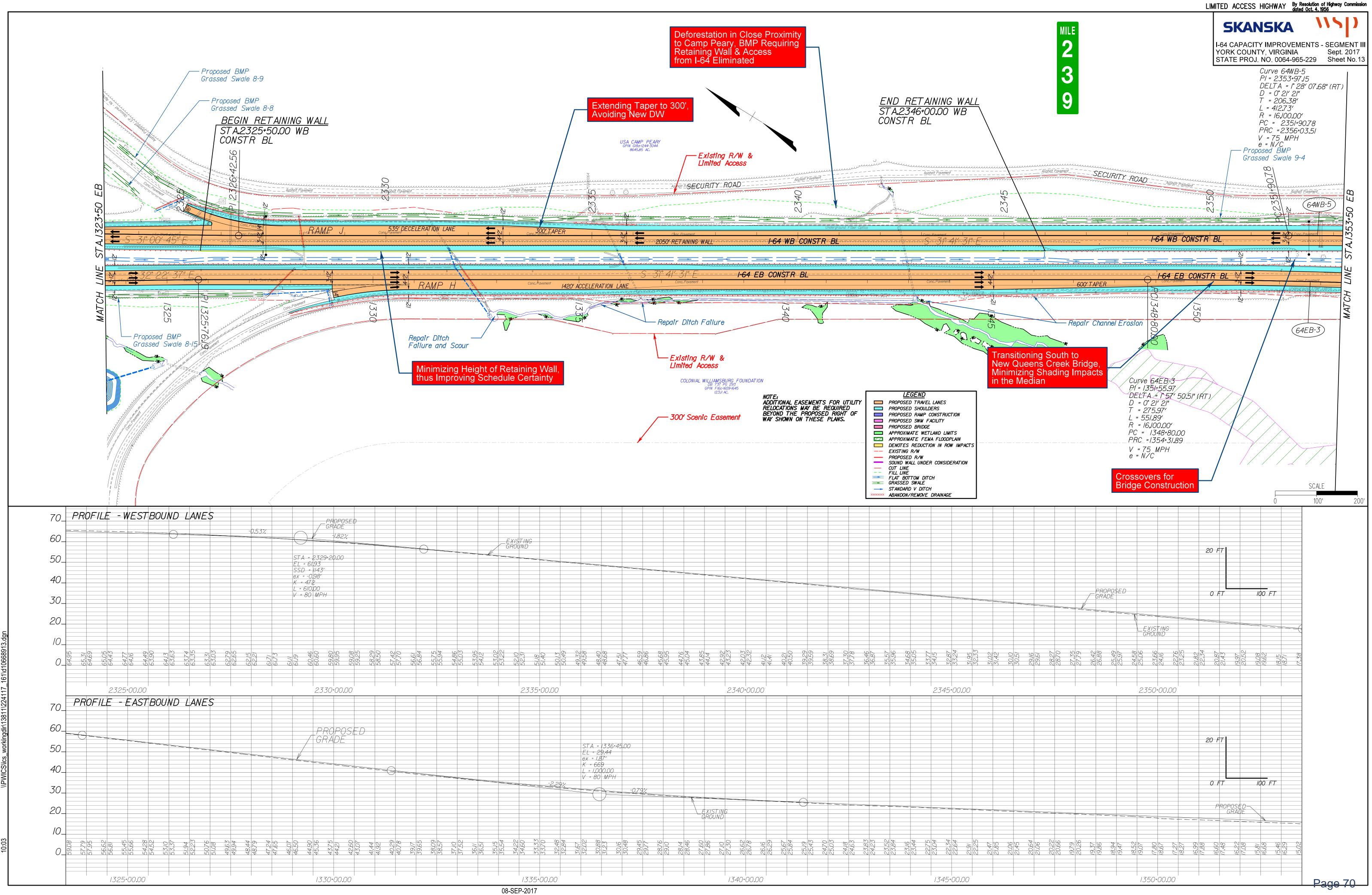


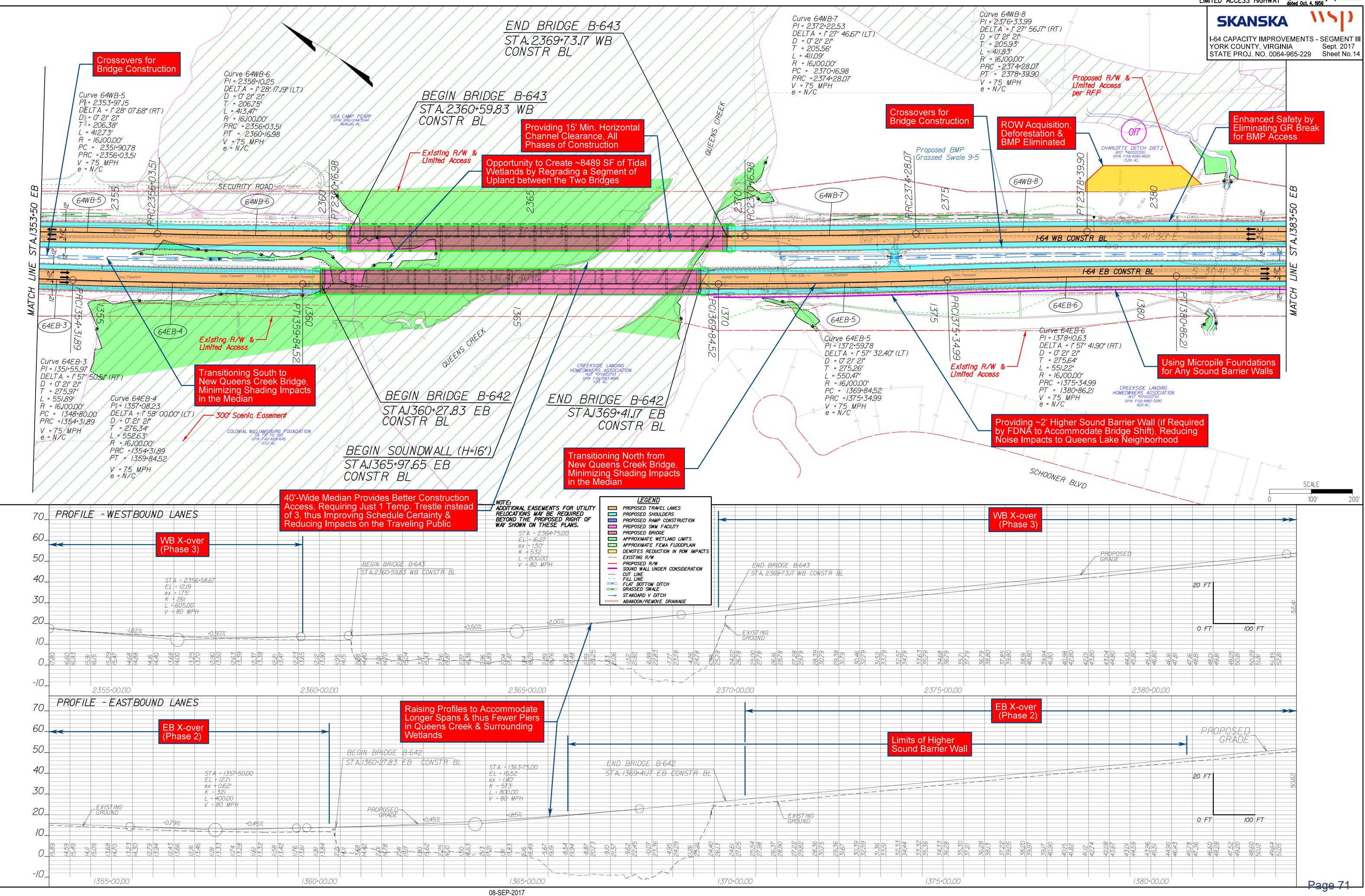
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	YORK COUNTY, VIRGINIA Sept. 2017 STATE PROJ. NO. 0064-965-229 Sheet No.10
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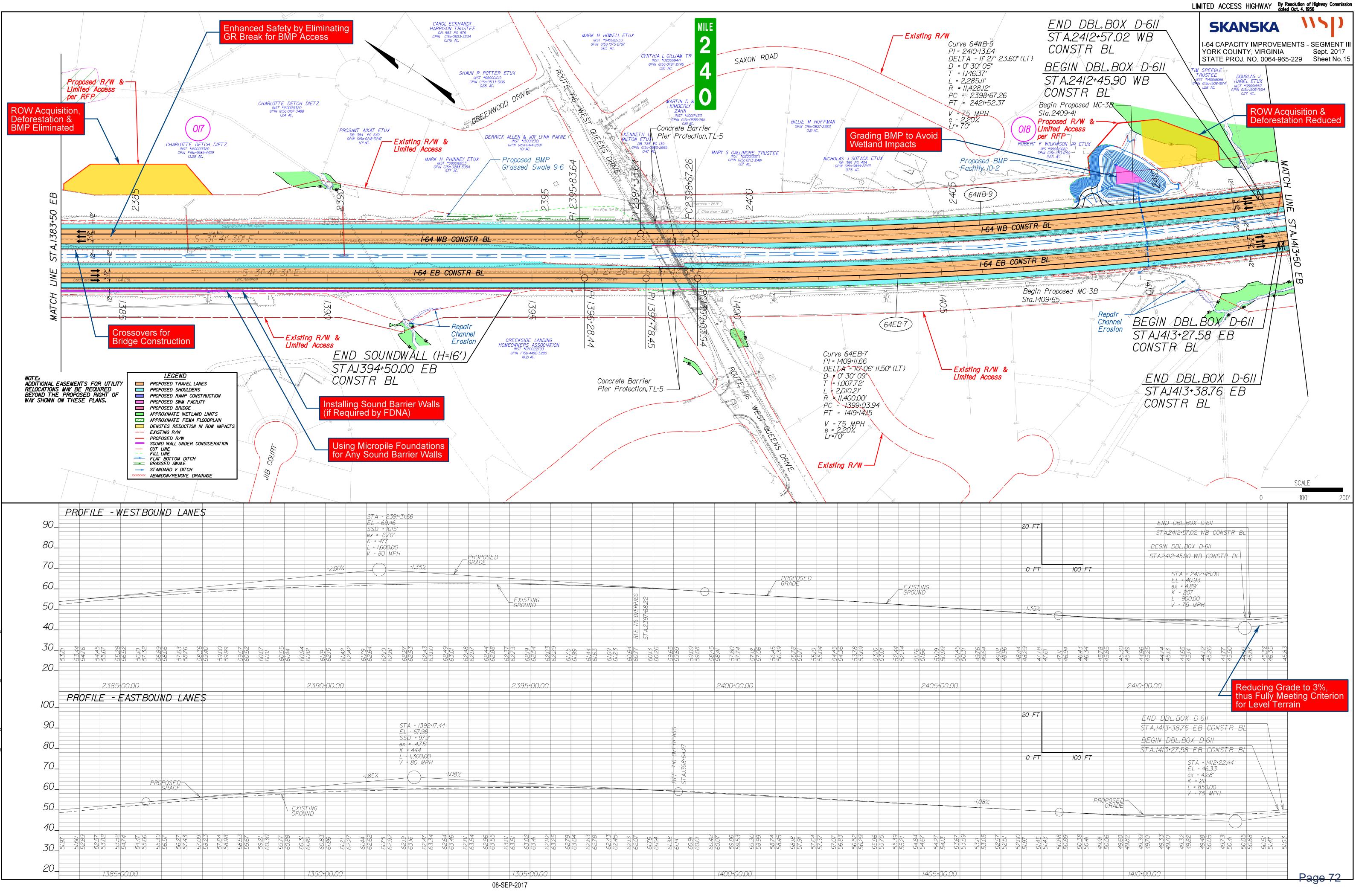


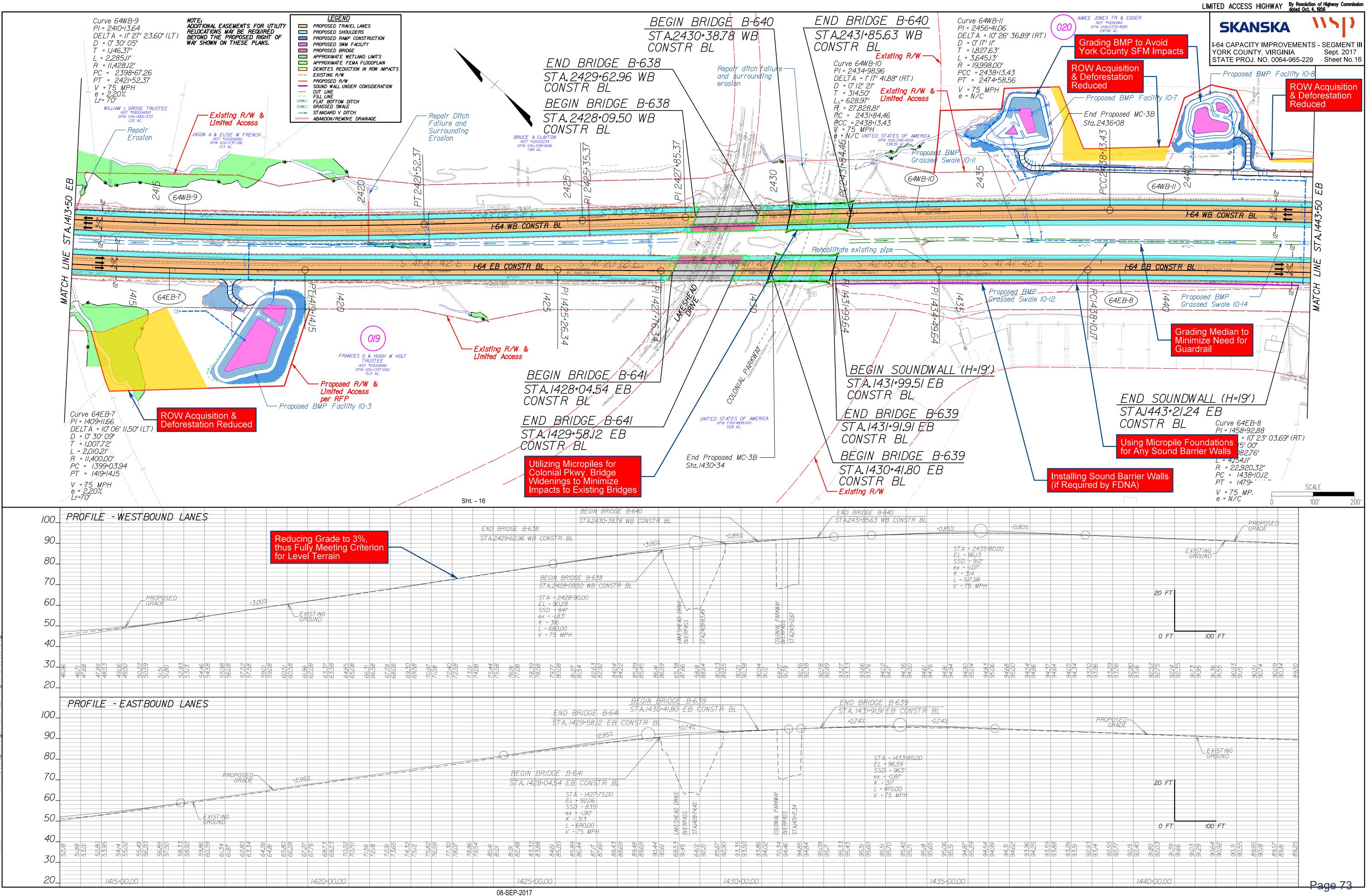


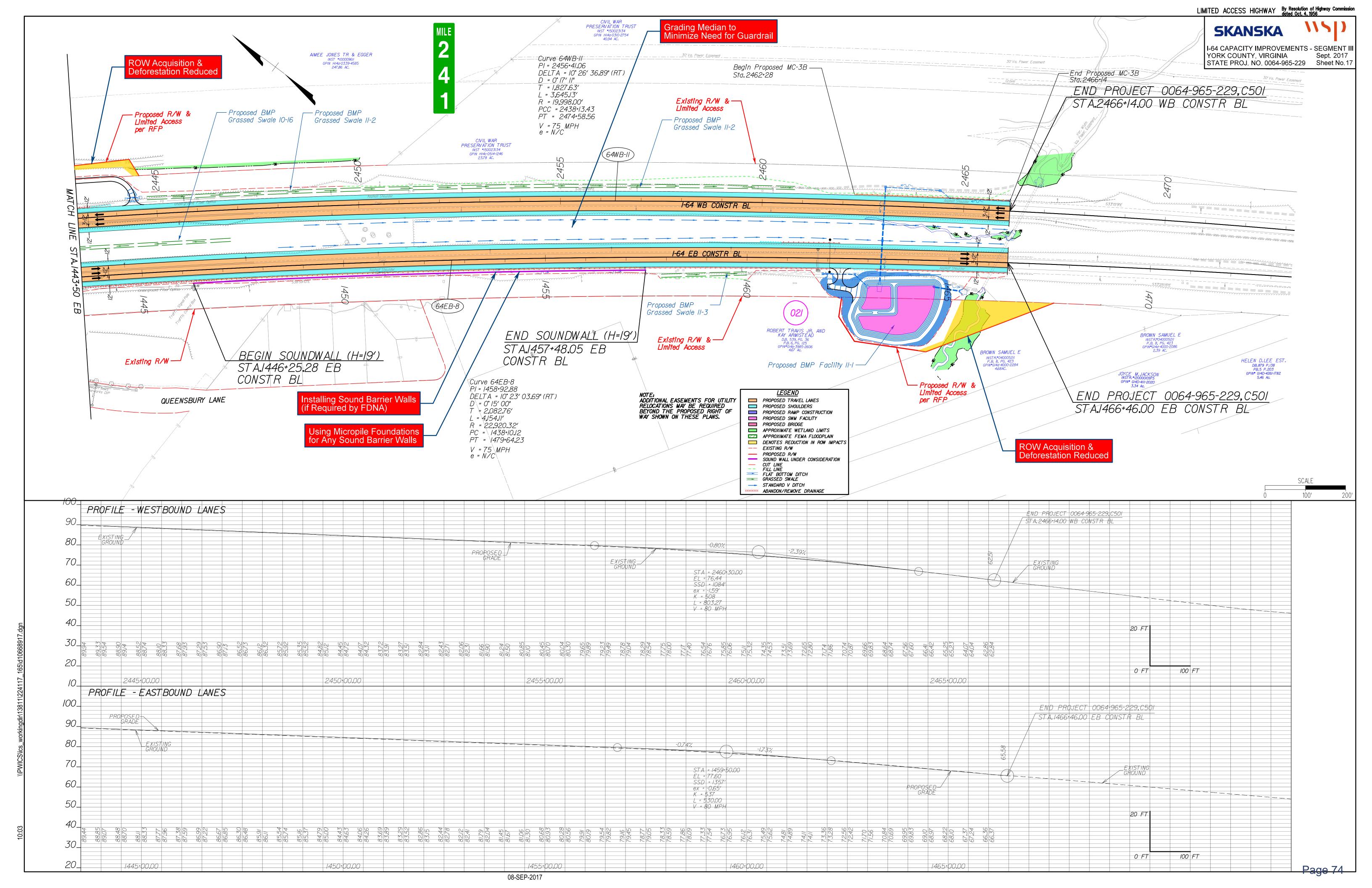


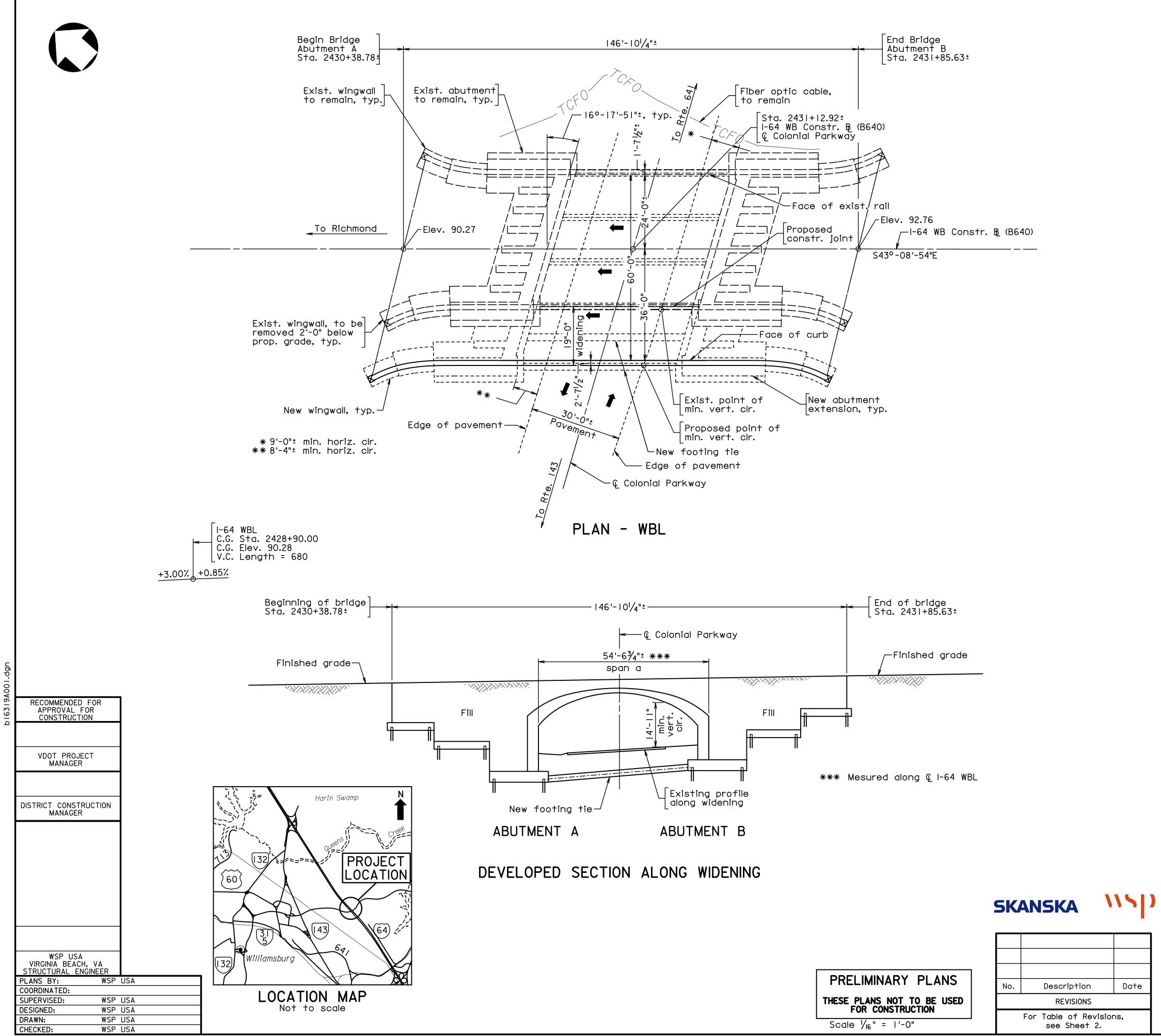












STATE	FEDERAL AID			STATE			
STATE	ROUTE PROJECT		ROUTE	PROJECT	NO.		
VA.			64	0064-965-229, B639, B640	I		
NBIS Number: 00000000019840 00000000019838				UPC No. 106689			
				FHWA Construction X224-SN			
Federal Oversight Code: N/A			and	Scour Code: XZZ4-3	NIC		

DESIGN EXCEPTION(S): None

GENERAL NOTES:

Width: 60'-0" face of rail to face of curb, includes widening of 19'-0" on median side.

Span layout: 54'-6¾"± WBL, 57'-91/2"± EBL

Capacity: HL-93 loading. (Widened portion only)

Specifications:

Construction: Virginia Department of Transportation Road and Bridge Specifications, 2016.

Design: AASHTO LRFD Bridge Design Specifications, 7th Edition, 2014; and VDOT Modifications.

Standards: Virginia Department of Transportation Road and Bridge Standards, 2016.

These plans are incomplete unless accompanied by the Supplemental Specifications and Special Provisions included in the contract documents.

Design loading includes 10 psf allowance for construction tolerances and construction methods. (Widened portion only)

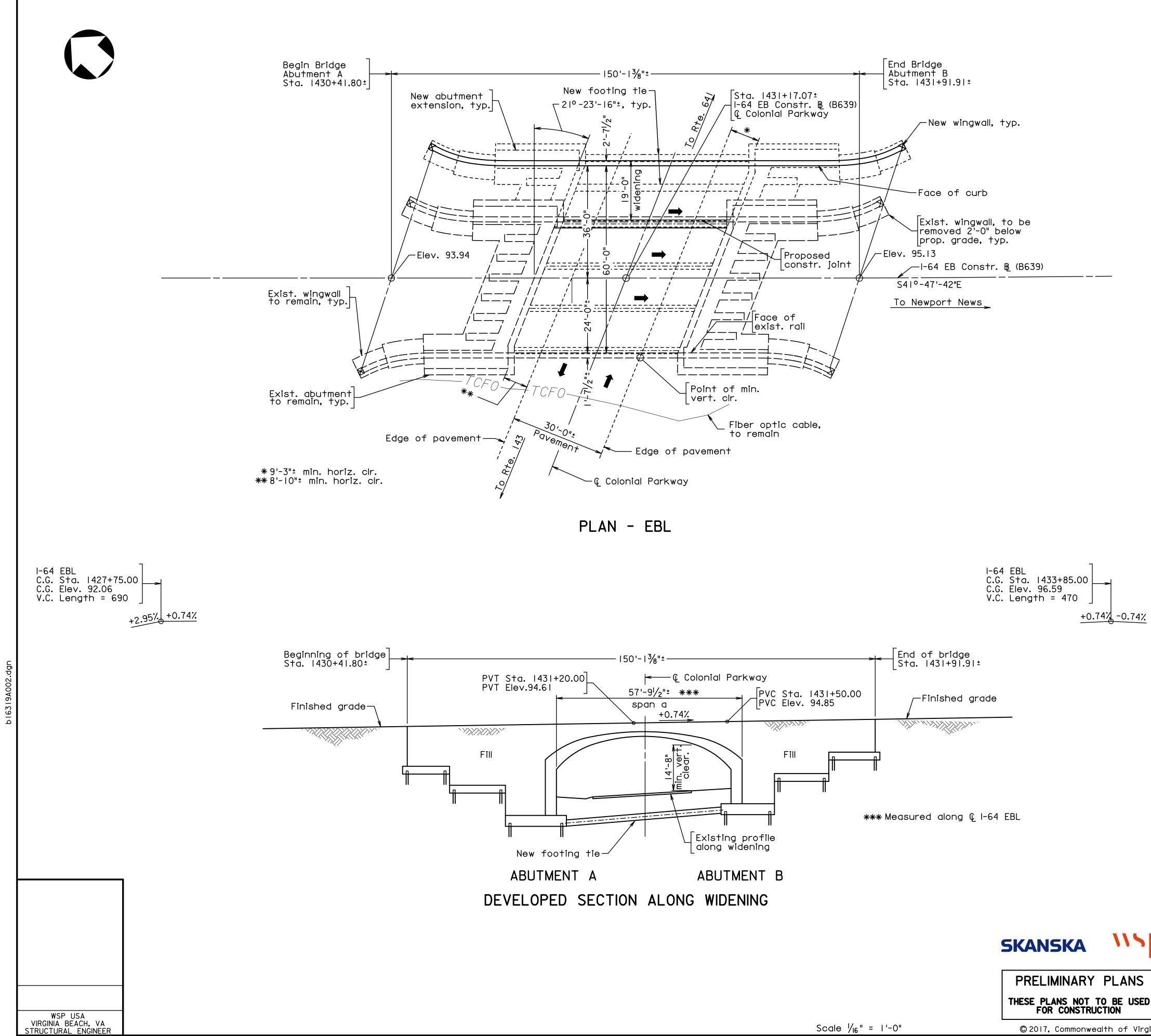
Design loading includes 15 psf allowance for future wearing surface. (Widened portion only)

Bridge No. of existing bridge are 2006 (WBL) and 2005 (EBL). Plan No. is 163–19.



COMMONWEALTH OF VIRGINIA DEPARTMENT OF TRANSPORTATION PROPOSED BRIDGE WIDENING ON I-64 OVER COLONIAL PARKWAY YORK COUNTY - 3.7 MI. W. YORK CO./ CITY OF NEWPORT NEWS LINE PROJ. NO. 0064-965-229, B639, B640

Recommended for Approv	al:	
	Designee/Developer	Date
Approved:		
	Chief Engineer	Date
		163-19A
		IOJ IJA
Date:_Aug., 2017	© 2017, Commonwealth of Virginia	Sheet I of 3



PRELIMINARY PLANS

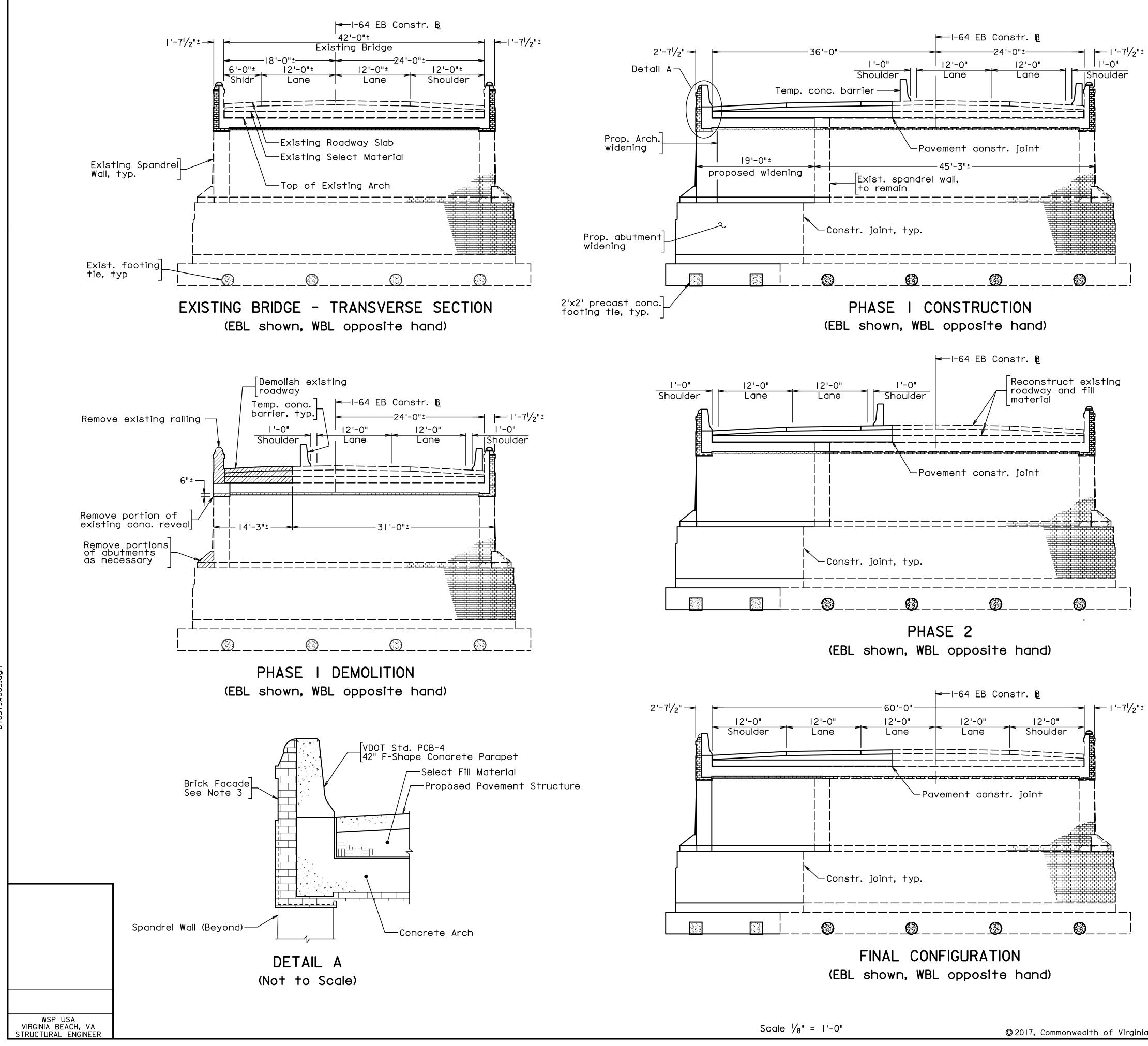
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STATE	STATE	FEDERAL AID			SHEET	
	STATE	ROUTE	PROJECT	ROUTE	PROJECT	NO.
	VA.			64	0064-965-229, B639, B640	2

Note:

I. For General Notes, see sheet I.

				COMMONWEALTH OF VIRGINIA DEPARTMENT OF TRANSPORTATION					
				STRUCTURE AND BRIDGE DIVISION					
 /				GENERA	GENERAL PLAN AND ELEVATION (2 OF 2)				
,	No.	Description	Date	Designed: <u>WSP</u>	Date	Plan No.	Sheet No.		
i nia	Revisions		Designed: WSP Drawn:WSP Checked: .WSP	Aug. 2017	163-19A	2			



STATE	FEDERAL AID			SHEET	
STATE	ROUTE	PROJECT	ROUTE	PROJECT	NO.
VA.			64	0064-965-229, B639, B640	3

Notes:

- I. All sections shown looking station ahead (to the east).
- Maintenance of Traffic notes: 2.

Phase I, Stage I: Install temporary traffic controls and shift traffic towards the outside of the existing bridge, maintaining two 12'-0" lanes. Remove existing portions of abutments, railing and spandrel wall as necessary and portion of the existing roadway from median side of existing bridge.

Phase I, Stage 2: Construct proposed bridge widening by matching geometry of the existing arch. Proposed arch shall be čast-in-place concrete.

Phase 2: Shift traffic to the previously constructed widening, providing two 12'-0" lanes. Replace the remaining portion of the existing roadway and fill material.

Final: Remove temporary barrier and shift traffic to final alignment.

3. Masonry and aesthetics of proposed widening shall match the existing bridge.

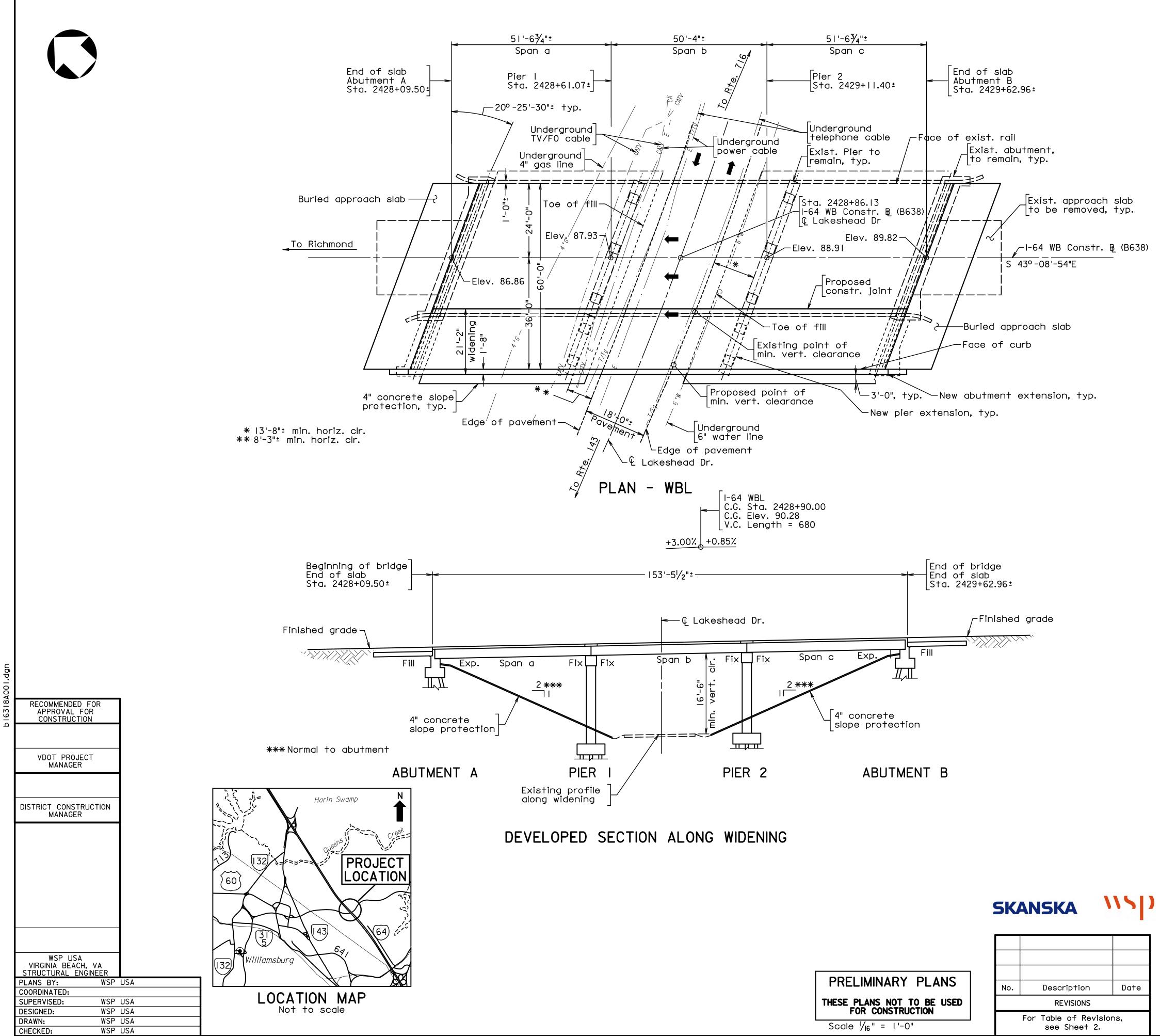
Legend:

Denotes portion of existing structure to be removed

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PRELIMINARY PLANS THESE PLANS NOT TO BE USED FOR CONSTRUCTION

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				SEQUENCE OF CONSTRUCTION				
	No.	Description	Date	Designed: WSP	Date	Plan No.	Sheet No.	
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No.	Description	Dat
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	For Table of Revision see Sheet 2.	ns,

STATE	FEDERAL AID			STATE			
STATE	ROUTE PROJECT		ROUTE	PROJECT	NO.		
VA.			64	0064-965-229, B638, B641	I		
NBIS I	Number: 00000000019836		UPC	No. 106689			
		00000000019834	FHWA	Construction X281-S			
Feder	al Ov	ersight Code: N/A	and Scour Code: X281-3				

DESIGN EXCEPTION(S): None

GENERAL NOTES:

Width: 60'-0" face of rail to face of curb; includes widening of 21'-2" on median side.

Span layout: $51'-6\frac{3}{4}"^{\pm} - 50'-4"^{\pm} - 51'-6\frac{3}{4}"^{\pm}$ WBL $51'-7\frac{1}{2}"^{\pm} - 50'-4"^{\pm} - 51'-7\frac{1}{2}"^{\pm}$ EBL

Capacity: HL-93 loading. (Widened portion only)

Specifications:

Construction: Virginia Department of Transportation Road and Bridge Specifications, 2016.

Design: AASHTO LRFD Bridge Design Specifications, 7th Edition, 2014; and VDOT Modifications.

Standards: Virginia Department of Transportation Road and Bridge Standards, 2016.

These plans are incomplete unless accompanied by the Supplemental Specifications and Special Provisions included in the contract documents.

Design loading includes 20 psf allowance for construction tolerances and construction methods. (Widened portion only) Design loading includes 15 psf allowance for future wearing surface.

(Widened portion only) Bridge No. of existing bridges are 2004 (WB) and 2003 (EB). Plan No. is 163-18.

Utilities shown in Plan view which conflict with new foundations will be relocated. All other utilities are to remain in place.

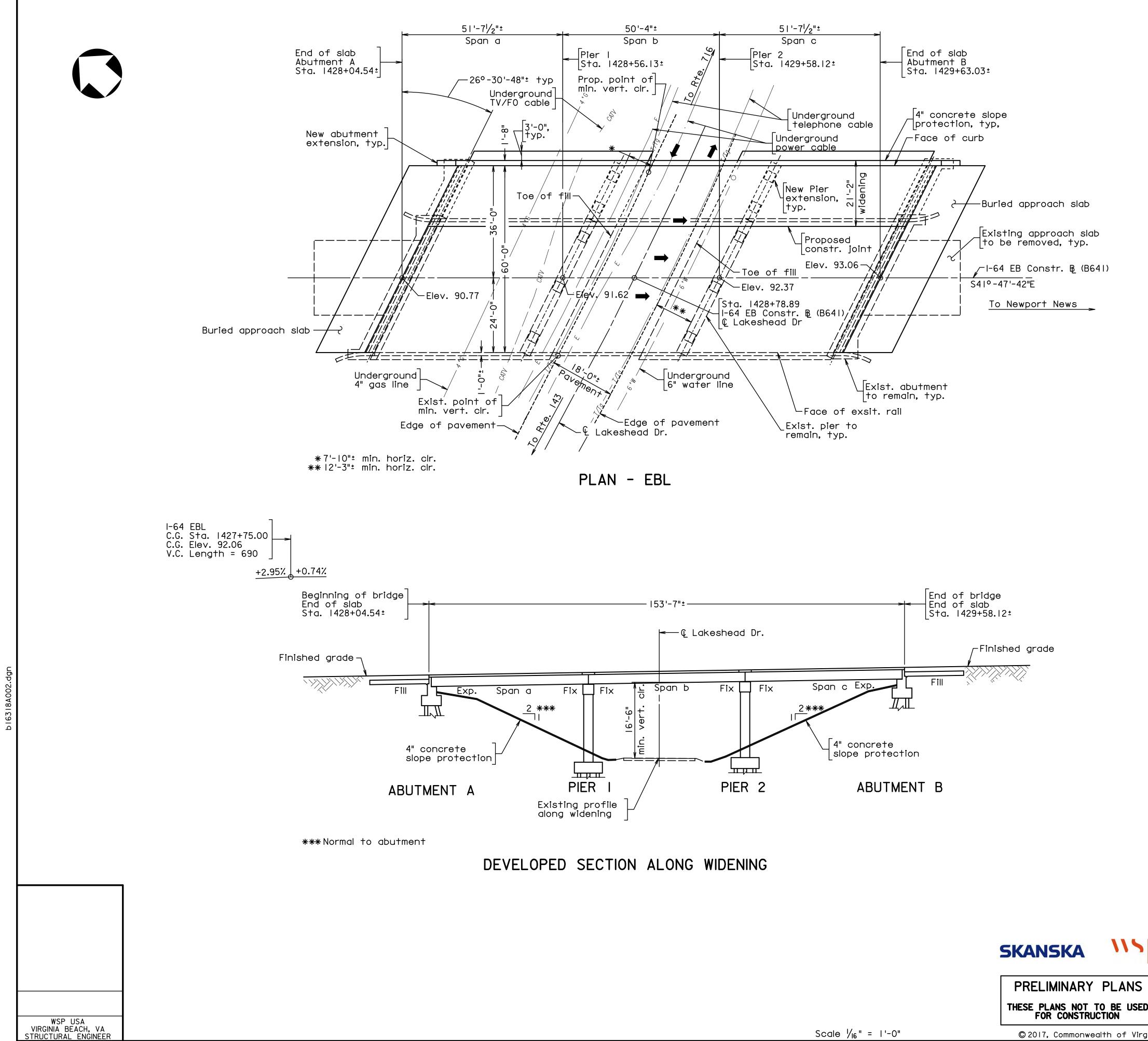
The need for pier protection barrier adjacent to Lakeshead Drive to be determined.



COMMONWEALTH OF VIRGINIA DEPARTMENT OF TRANSPORTATION

PROPOSED BRIDGE WIDENING ON I-64 OVER RTE. I314 (LAKESHEAD DRIVE) YORK COUNTY - 3.7 MI. W. YORK CO./ CITY OF NEWPORT NEWS LINE PROJ. NO. 0064-965-229, B638, B641

Recommended for Approv	/al:	
	Designee/Developer	Date
Approved:		
	Chief Engineer	Date
		163-18A
ate:_Aug., 2017	© 2017, Commonwealth of Virginia	Sheet I of 3

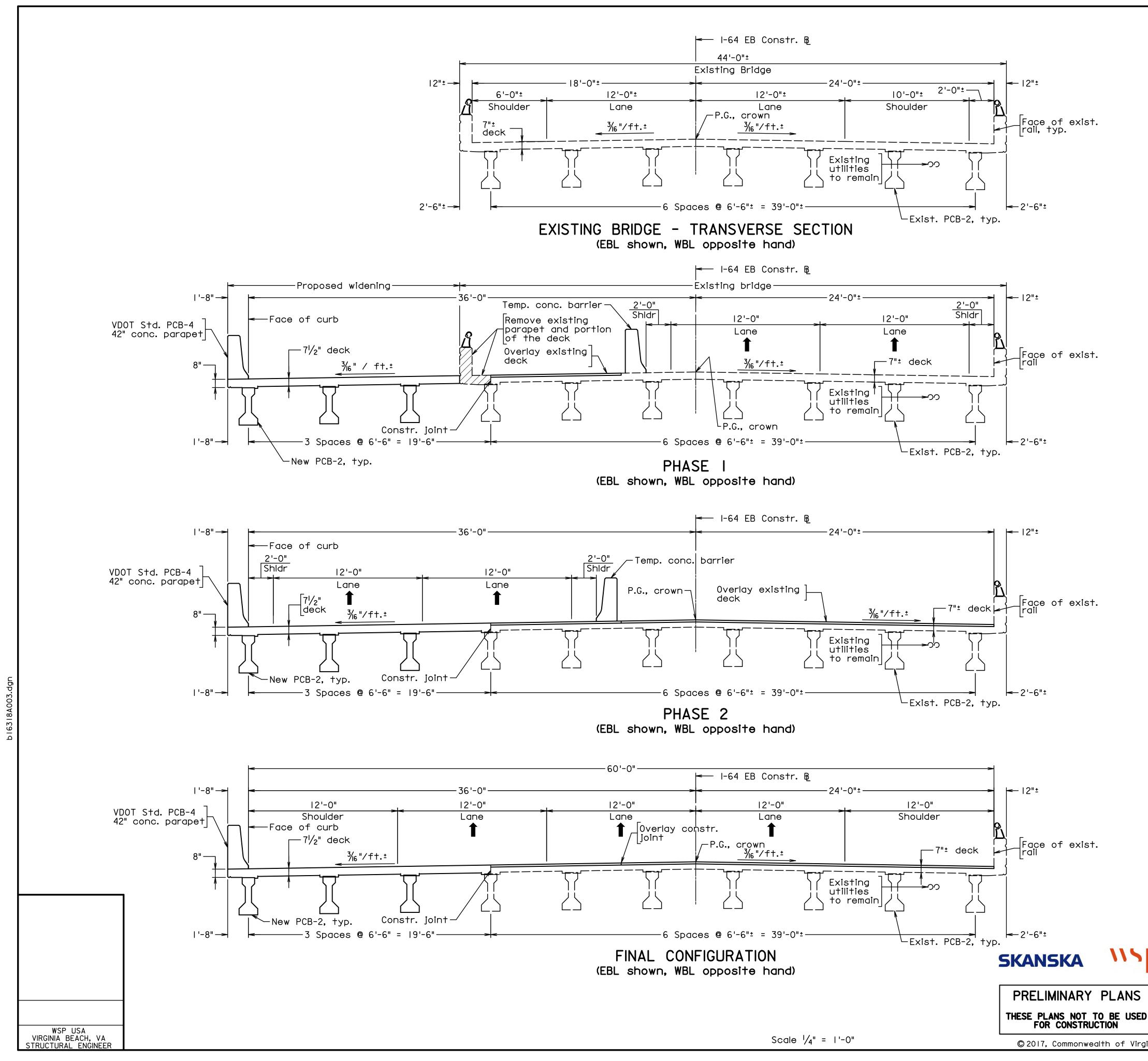


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	VA.			64	0064-965-229, B638, B641	2

Note:

I. For General Notes, see sheet I.

				COMMONWEALTH OF VIRGINIA DEPARTMENT OF TRANSPORTATION						
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P				GENERA	GENERAL PLAN AND ELEVATION (2 OF 2)					
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STATE		FEDERAL AID		STATE	SHEET
STATE	ROUTE	PROJECT	ROUTE	PROJECT	NO.
VA.			64	0064-965-229, B638, B641	3

Notes:

- I. All section shown looking station ahead (to the east).
- 2. Maintenance of Traffic Notes:

Phase I, Stage I: Install temporary traffic controls and shift traffic towards the outside of the existing bridge, maintaining two 12'-0" lanes. Remove parapet and existing portion of deck from median side of existing bridge. Perform bearing replacement under existing beams. Jacking and blocking operations to be done during temporary nighttime closures.

Phase I, Stage 2: Construct proposed bridge widening. Longitudinal construction joint shall be located over the existing beam/girder line. Perform deck patching as required and place portion of new concrete overlay on existing deck. Close portion of existing joints over the piers, and extend deck slabs over the backwalls

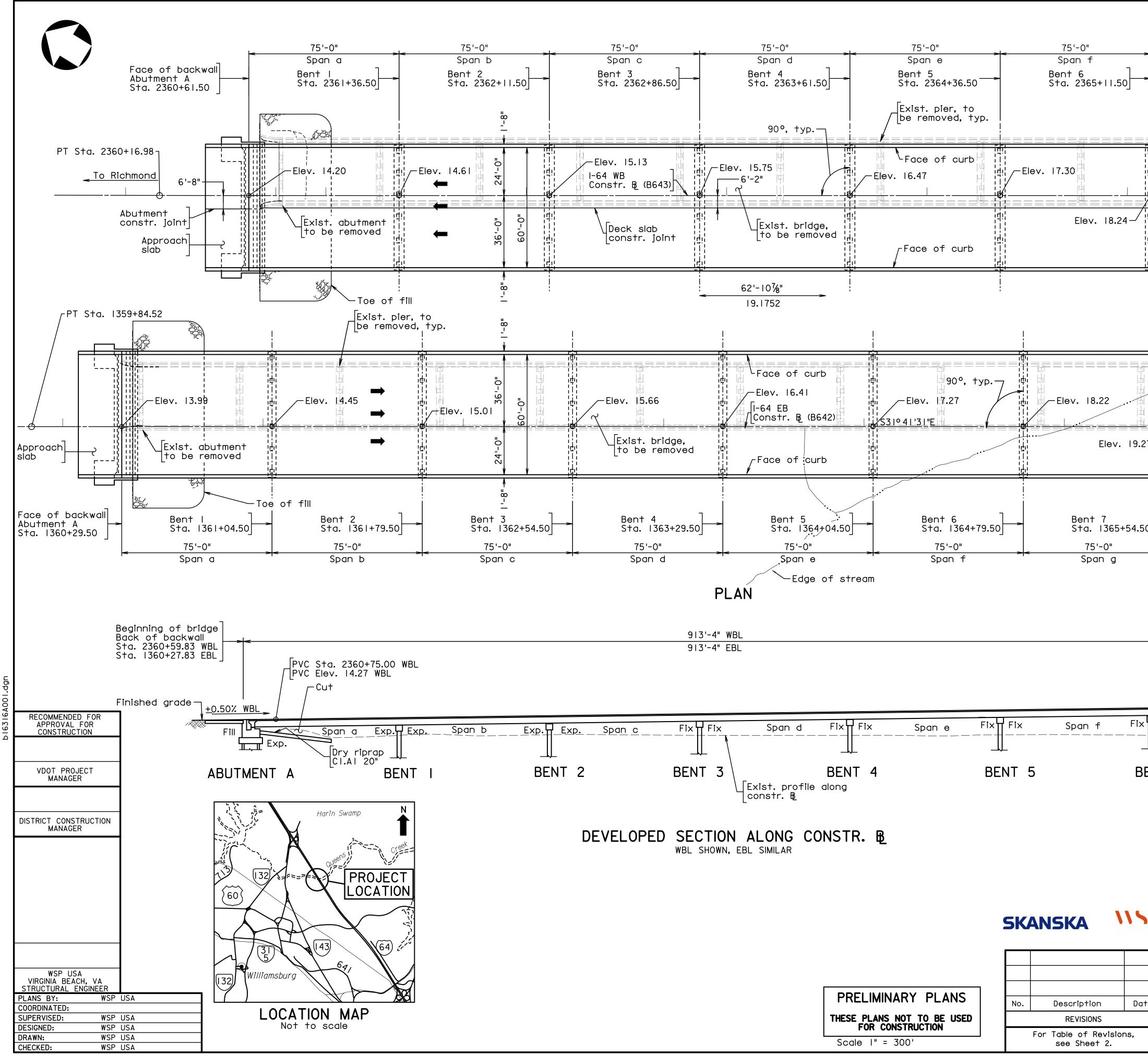
Phase 2: Shift traffic to the previously constructed widening, providing two 12'-0" lanes. Perform deck patching as required and place new concrete overlay on existing deck. Close the existing joints over the piers, and extend deck slabs over the backwalls.

Final: Remove temporary barrier and shift traffic to final alignment.

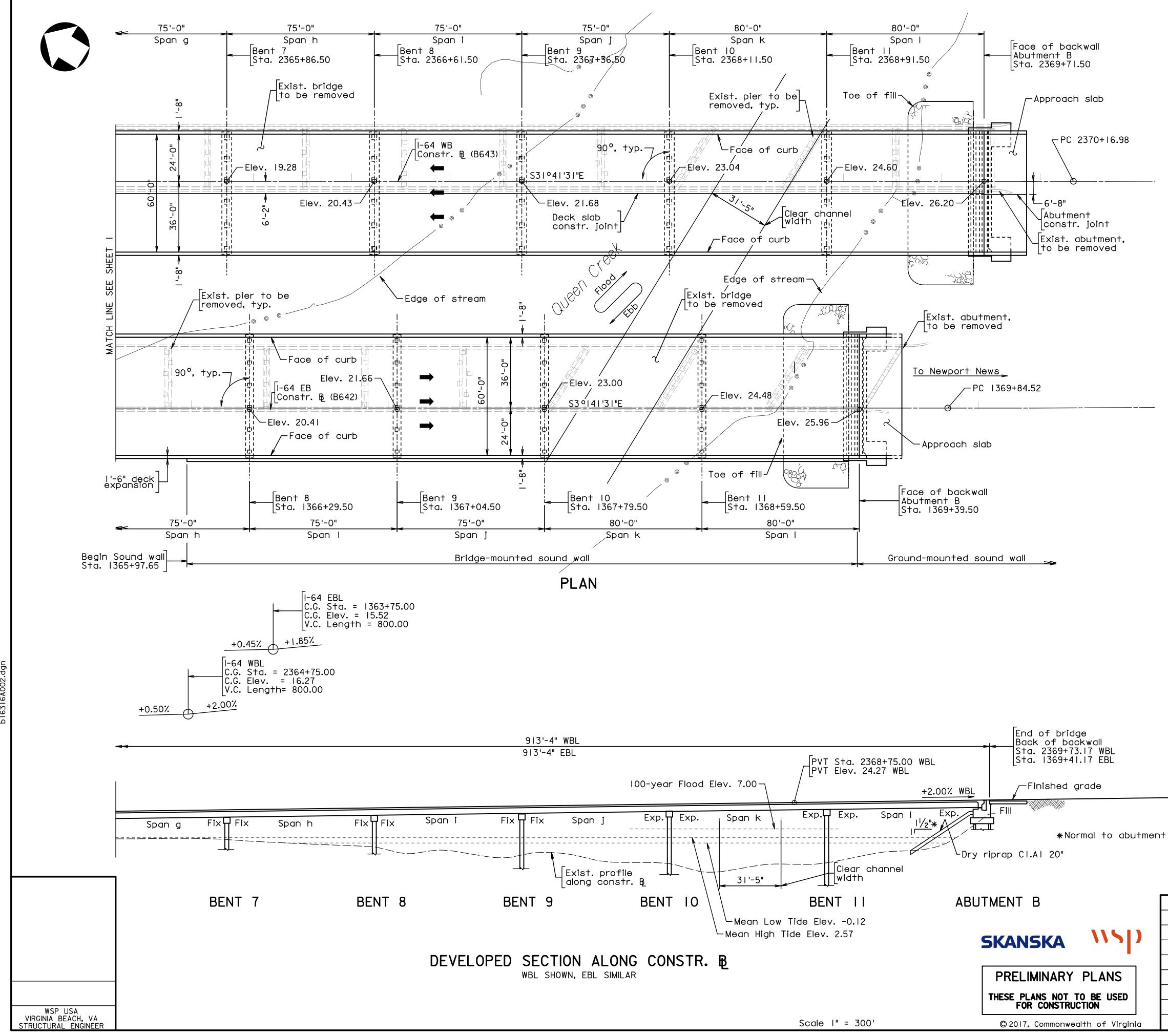
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Denotes portion of existing structure to be removed

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		STATE		FEDERAL AID		STATE	SHEET
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>		Feder	al Ov	ersight Code: N/A	ana	Scour Code: AUOI	55
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		Capa	city:	HL-93 loading.			
		Drain	age d	area: Tidal			
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		Date	<u>. Aug</u> .	, <u>2017</u> © 2017, Commor	wealth	of Virginia Sheet I	of 4

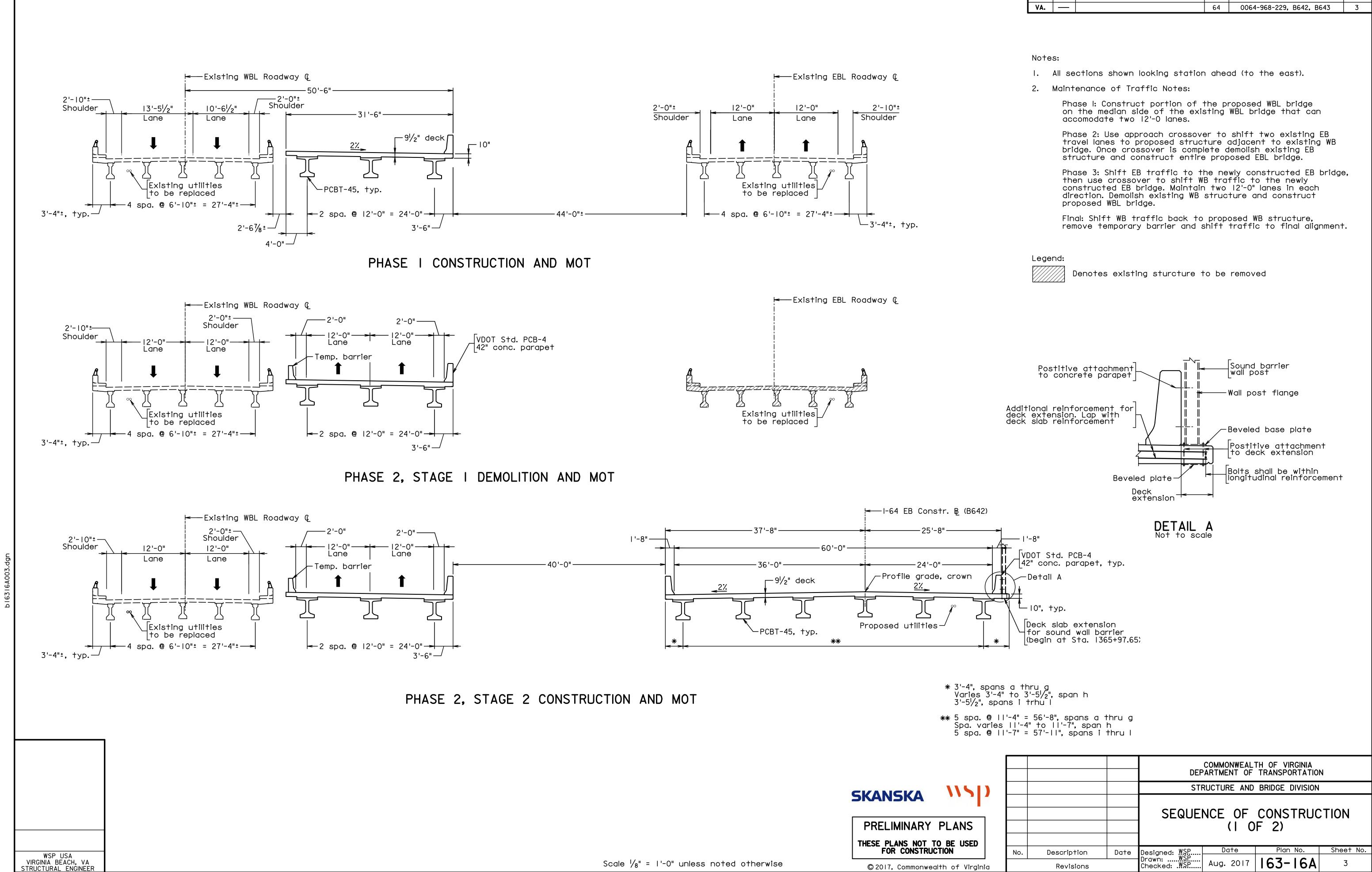


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VA.			64	0064-968-229, B642, B643	2

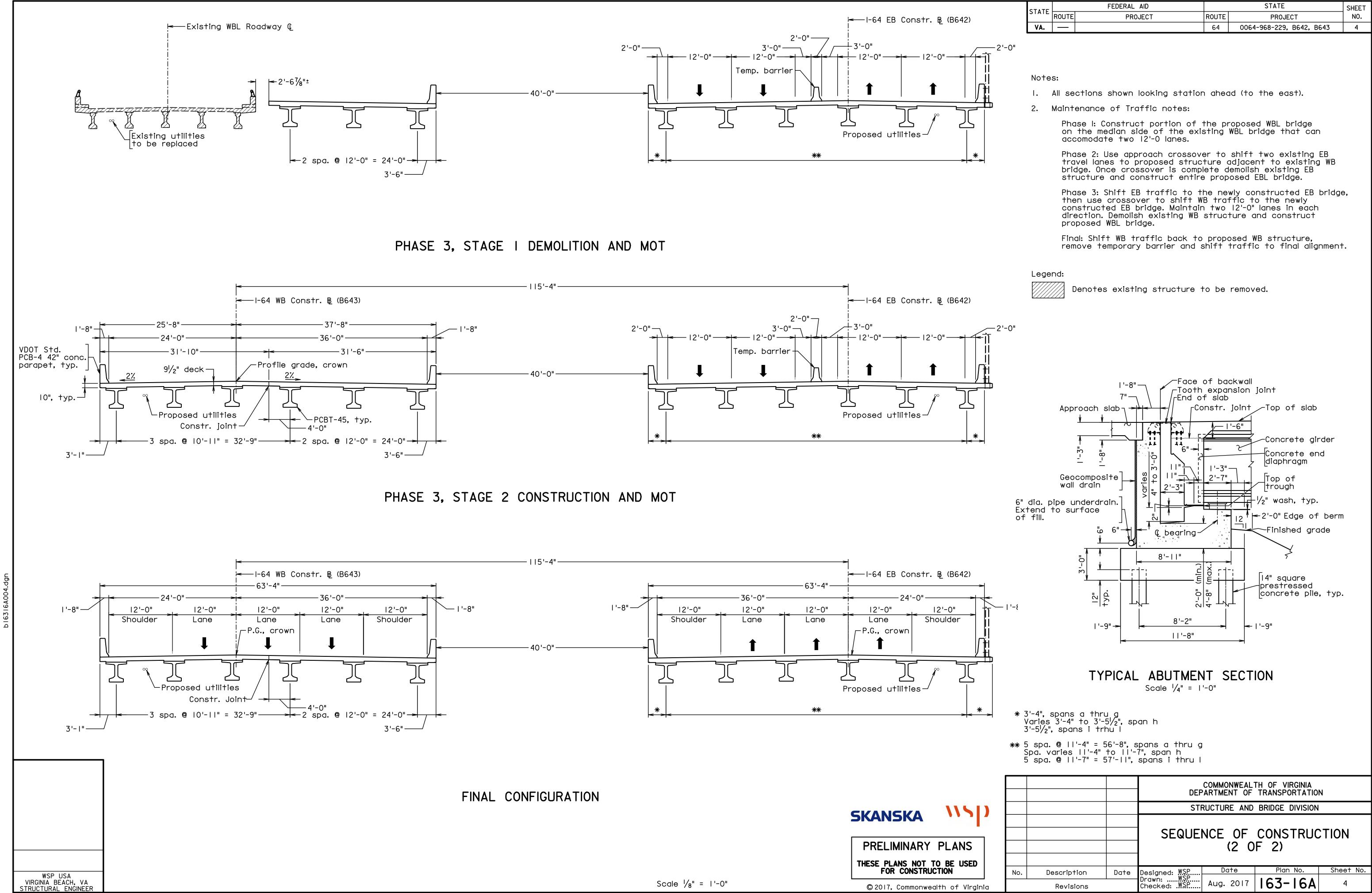
Note:

I. For General Notes, see sheet I.

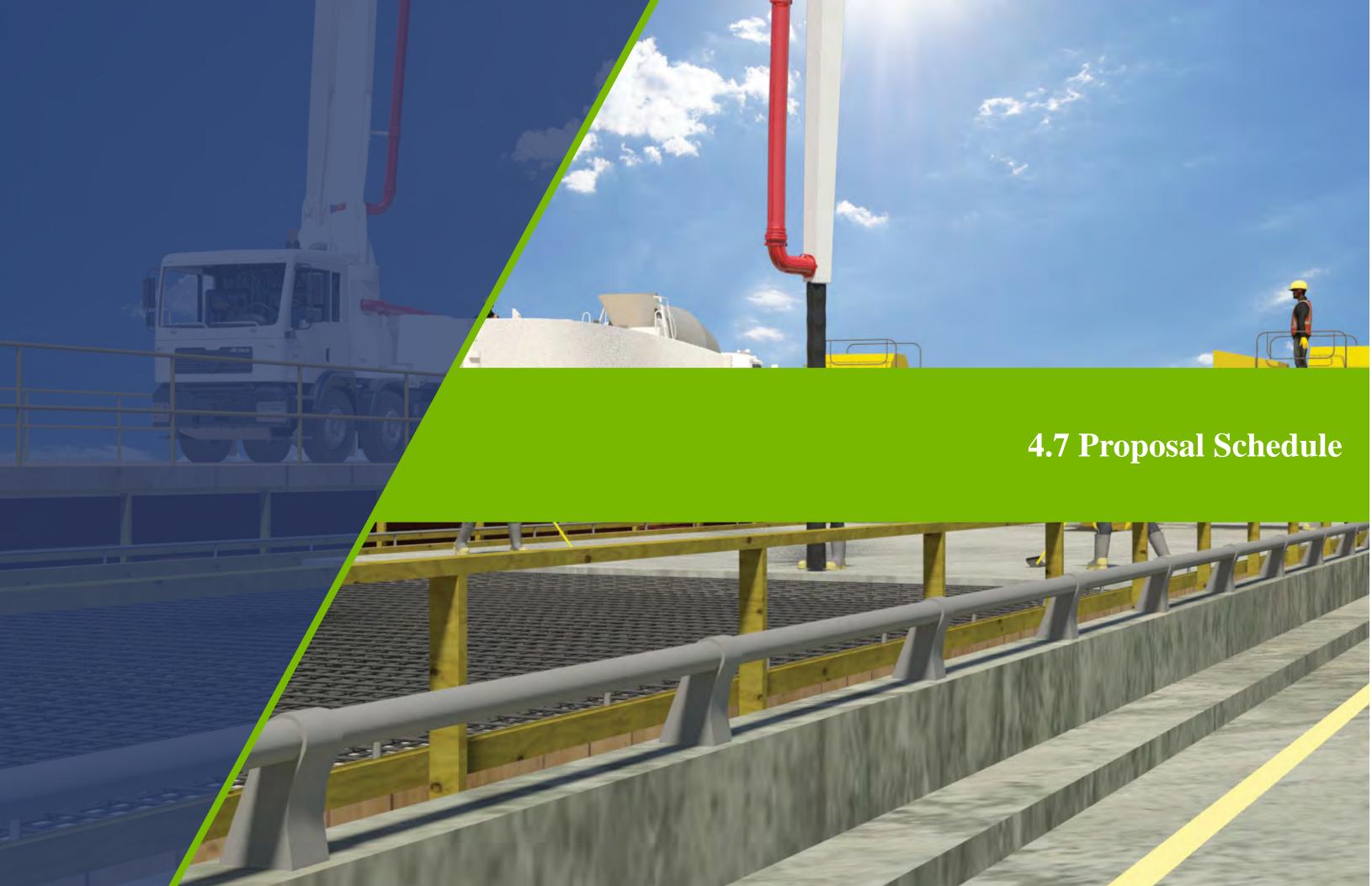
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STATE		FEDERAL AID		STATE	SHEET
STATE	ROUTE	PROJECT	ROUTE	PROJECT	NO.
VA.			64	0064-968-229, B642, B643	3



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	NO.	PROJECT	ROUTE	ROUTE PROJECT	STATE
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MILE.NOI	Notice of Intent to Award	0 10-30-17	Notice of Intent to Award
MILE.NOA	Notice to Award	0 12-06-17	♦ Notice to Award
MILE.DGN.START	Start of Design (WSP NTP)	0 12-06-17	◆ Start of Design (WSP NTP)
CONT.EXEC	Design-Build Contract Eval and Execution	20 12-07-17 01-08-18	Design-Build Contract Eval and Execution
DGN.PW.ROW.005	ROW Plan Set - Produce Project Wide ROW Plans	66 12-07-17 03-15-18	ROW Plah Set - Produce Project Wide ROW Plans
DGN.PW.ROW.010	ROW Plan Set - Produce Project Wide E&S Plans	66 12-07-17 03-15-18	ROW Plan Set - Produçe Project Wide E&S Plans
DGN.PW.ROW.015	ROW Plan Set - Produce Project Wide SWM Plans	66 12-07-17 03-15-18	ROW Plan Set - Produce Project Wide SWM Plans
DGN.PW.ROW.020	ROW Plan Set - Produce Project Wide Rough Grading Plans	66 12-07-17 03-15-18	ROW Plan Set - Produce Project Wide Rough Grading Plans
DGN.PW.ROW.025	ROW Plan Set - Produce Project Wide MOT/TMP Plans	66 12-07-17 03-15-18	ROW Plan Set - Produce Project Wide MOT/TMP Plans
CONT.DELV	Deliver Executed Contract to VDOT	1 01-09-18 01-09-18	I Deliver Executed Contract to V/DOT
MILE.DBCE	Design-Build Contract Execution	0 01-09-18	Design-Build Contract Execution
MILE.NTP	Notice to Proceed	0 01-17-18	◆ Notice to Proceed
MILE.DGN.START10	Begin Scope Validation Period	0 01-17-18	◆ Begin Scope Validation Period
SV.DGN.SVY.035	Produce Mapping for Right-of-Way Plan Development	20 01-18-18 02-14-18	Produce Mapping for Right-of-Way Plan Development
SV.DGN.SVY.010	Final Data Collection - Right-of-Way Plans- Project Wide Survey	15 01-18-18 02-07-18	■ Final Data Collection - Right-of+Way Plans- Project Wide Survey
DGN.PW.ROW.030	IDC ROW Plan Set - Project Wide	0 03-15-18	♦ IDC ROW Plan Set - Project Wide
	WSP Incorporate IDC Comments - ROW Plan Set - Project Wide		
DGN.PW.ROW.035		15 03-16-18 04-05-18	WSP Incorporate IDC Comments - ROW Plan Set - Project Wide
DGN.PW.ROW.040	WSP Pencils Down ROW Plan Set - Project Wide	0 04-05-18	♦ WSP Pencils Down ROW Plan Set - Project Wide
DGN.PW.ROW.045	WSP Internal Review/QC ROW Plan Set - Project Wide	5 04-06-18 04-12-18	WSP Internal Review/QC ROW Plan Set - Project Wide
DGN.PW.ROW.050	WSP Address Comm/Package ROW Plan Set - Project Wide	3 04-13-18 04-17-18	USP Address Comm/Package ROW Plan Set - Project Wide
DGN.PW.ROW.055	Skanska Internal Review ROW Plan Set - Project Wide	5 04-18-18 04-24-18	Skanska Internal Review ROW Plan Set - Project Wide
DGN.PW.ROW.060	Submit ROW Plan Set - Project Wide to VDOT	0 04-24-18	Submit ROW Plan Set - Project Wide to VDOT
DGN.PW.ROW.065	VDOT Review/Comment ROW Plan Set - Project Wide	21 04-25-18 05-15-18	VDOT Review/Comment ROW Plan Set - Project Wide
DGN.PW.ROW.070	WSP IDC Mtg Construction Plan Set	1 05-16-18 05-16-18	I W\$P IDC Mtg Construction Plan Set
DGN.PW.CPS.TC.005	Produce Temp. Traffic Control - Construction Plan Set - Project Wide	20 05-17-18 06-14-18	Produce Temp. Traffic Control - Construction Plan Set - Project Wide
DGN.PW.CPS.TC.015	WSP Pencils Down Temp. Traffic Control - Construction Plan Set - Projec	0 06-14-18	W\$P Pencils Down Temp. Traffic Control - Construction Plan Set - Project Wide
DGN.PW.CPS.TC.020	WSP Internal Review/QC - Temp. Traffic Control - Construction Plan Set	5 06-15-18 06-21-18	WSP Internal Review/QC - Temp. Traffic Control - Construction Plan Set - Project Wide
DGN.PW.CPS.TC.025	WSP Address Comm/Package - Temp. Traffic Control - Construction Plan	5 06-22-18 06-28-18	🛚 WSP Address Comm/Package - Temp: Traffic Control - Construction Plan Set - Poject Wide
DGN.PW.CPS.TC.030	Skanska Internal Review - Temp. Traffic Control - Construction Plan Set	5 06-29-18 07-06-18	🛢 Skanska Internal Review - Temp. Traffic Control - Construction Plan Set - Project Wide
DGN.PW.CPS.TC.035	Submit to VDOT - Temp. Traffic Control - Construction Plan Set - Project	0 07-06-18	Submit to VDOT - Temp: Traffic Control - Construction Plan Set - Project Wide
DGN.PW.CPS.TC.040	VDOT Review/Comment - Temp. Traffic Control - Construction Plan Set -	21 07-07-18 07-27-18	VDOT Review/Comment - Temp. Traffic Control - Construction Plan Set - Project Wide
DGN.PW.CPS.TC.045	WSP Address Comm/PKG Sign & Seal - Temp. Traffic Control - AFC Plan	10 07-30-18 08-10-18	WSP Address Comm/PKG Sigh & Seal - Temp. Traffic Control - AFC Plan Set - Project Wide
DGN.PW.CPS.TC.050	Skanska Internal Review - Temp. Traffic Control - AFC Plan Set - Project	5 08-13-18 08-17-18	Skanska Internal Review - Temp, Traffic Control - AFC Plan Set - Project Wide
DGN.PW.CPS.TC.055	Submit to VDOT - Temp. Traffic Control - AFC Plan Set - Project Wide	0 08-17-18	◆ Submit to VDOT - Temp. Traffic Control - AFC Plan Set - Project Wide
DGN.PW.CPS.TC.060	VDOT Issue AFC Plans - Temp. Traffic Control - Project Wide	21 08-18-18 09-07-18	VDQT Issue AFC Plans;- Temp. Traffic Control + Project Wide
64E.A1.TPAV.105	Strengthen Outside Shoulder - I-64 EB Outside (Area A-1) - Phase 1	3 09-10-18 09-13-18	Strengthen Outside Shoulder - I-64 EB Outside (Area A-1) - Phase 1
64E.A2.TPAV.105	Strengthen Outside Shoulder - I-64 EB Outside (Area A-2) - Phase 1	5 09-17-18 09-24-18	Strengthen Outside Shoulder - I-64 EB Outside (Area A-2) - Phase 1
64E.A3.TPAV.105	Strengthen Outside Shoulder - I-64 EB Outside (Area A-3) - Phase 1	5 09-25-18 10-02-18	Strengthen Outside Shoulder - I-64 EB Outside (Area A-3) - Phase 1
64E.A4.TPAV.105	Strengthen Outside Shoulder - I-64 EB Outside (Area A-4) - Phase 1	5 10-04-18 10-11-18	Strengthen Outside Shoulder - I-64 EB Outside (Area A-4) - Phase 1
64E.A5.TPAV.105	Strengthen Outside Shoulder - I-64 EB Outside (Area A-5) - Phase 1	5 10-12-18 10-19-18	Strengthen Outside Shoulder - I-64 EB Outside (Area A-5) - Phase 1
64E.A6.TPAV.105	Strengthen Outside Shoulder - I-64 EB Outside (Area A-6) - Phase 1	5 10-22-18 10-29-18	Strengthen Outside Shoulder - I-64 EB Outside (Area A-6) - Phase 1
64E.B1.TPAV.105	Strengthen Outside Shoulder - I-64 EB Outside (Area B-1) - Phase 1	4 10-30-18 11-06-18	Strengthen Outside Shoulder - 1-64 EB Outside (Area B-1) - Phase 1
64E.B3.TPAV.105	Strengthen Outside Shoulder - I-64 EB Outside (Area B-3) - Phase 1	3 11-08-18 11-12-18	Strengthen Outside Shoulder - I-64 EB Outside (Area B-3) - Phase 1
64E.B3.TSTR.105	Eradicate & Install Temp. Striping (Shifting Traffic to Outside) - I-64 EB (A	1 11-13-18 11-13-18	I Eradicate & Install Temp. Striping (Shifting Traffic to Outside) - I-64 EB (Area B-3) - Phase 1
64E.B3.TBAR.105	Install Temp. Barrier Wall - I-64 EB Median (Area B-3) - Phase 1	2 11-15-18 11-16-18	I Install Temp. Barrier Wall - I-64 EB Median (Area B-3) - Phase 1
Remaining Level of Eff	fort Critical Remaining Work	State Project No.: 0064-965	229, P-101, R-201, C-501, B-638, B-639, B-640, CRITICAL PATH PF
	♦ Milestone	B-641, B-6	2, B-643, D-609, D-610, D-611 Page 1
Actual Work	• • • • • • • • • • • • • • • • • • •		

SKANSKA	Activity Name	· · · · · · · · · · · · · · · · · · ·		ovements - Segment		Proposal Date: September 14, 2
ctivity ID	Activity Name	Original Start Finish Duration	Qtr 4		2018 Qtr 3 Qtr 4	
				D J F M A M J	<u> </u>	J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S
64M.B3.ECUT.105	Earthwork - Mass Cut/Fill - I-64 Median (Area B-3) - Phase 1	6 11-19-18 12-03-18				arthwork - Mass Cut/Fill - I-64 Median (Area B-3) - Phase 1
64M.B3.STORM.105	Install Storm Drain Pipe & Structures - I-64 Median (Area B-3) - Phase 1	4 11-30-18 12-06-18				nstall Storm Drain Pipe & Structures - I-64 Median (Area B-3) - Phase 1
64E.B3.DRDW.105	Demo Existing Roadway - I-64 EB Median (Area B-3) - Phase 1	4 12-07-18 12-13-18				Demo Existing Roadway - I-64 EB Median (Area B-3) - Phase 1
64W.B3.DRDW.105	Demo Existing Roadway - I-64 WB Median (Area B-3) - Phase 1	4 12-07-18 12-13-18				Demo Existing Roadway - I-64 WB Median (Area B-3) - Phase 1
64E.B3.RGRD.105	Earthwork - Fine Cut/Fill & Grading - I-64 EB Median (Area B-3) - Phase 1	2 12-14-18 12-17-18				Earthwork - Fine Cut/Fill & Grading - I-64 EB Median (Area B-3) - Phase 1
64W.B3.RGRD.105	Earthwork - Fine Cut/Fill & Grading - I-64 WB Median (Area B-3) - Phase	2 12-14-18 12-17-18				Earthwork - Fine Cut/Fill & Grading - I-64 WB Median (Area B-3) - Phase 1
64E.B3.STAB.105	Stabilize Subgrade - I-64 EB Median (Area B-3) - Phase 1	2 12-18-18 12-20-18			•	Stabilize Subgrade - I-64 EB Median (Area B-3) - Phase 1
64W.B3.STAB.105	Stabilize Subgrade - I-64 WB Median (Area B-3) - Phase 1	2 12-18-18 12-20-18				Stabilize Subgrade + I-64 WB Median (Area B-3) - Phase 1
64E.B3.BASE.105	Install Sub-Base - I-64 EB Median (Area B-3) - Phase 1	7 12-21-18 01-07-19				Install \$ub-Base - I-64 EB Median (Area B-3) - Phase 1
64W.B3.BASE.105	Install Sub-Base - I-64 WB Median (Area B-3) - Phase 1	7 12-21-18 01-07-19				Install Sub-Base - I-64 WB Median (Area B-3) - Phase 1
64E.B3.OGDL.105	Install Open Graded Drainage Layer - I-64 EB Median (Area B-3) - Phase	2 01-15-19 01-17-19				I Install Open Graded Drainage Layer - I-64 EB Median (Area B-3) - Phase 1
64W.B3.OGDL.105	Install Open Graded Drainage Layer - I-64 WB Median (Area B-3) - Phas	2 01-15-19 01-17-19				I Install Open Graded Drainage Layer - I-64 WB Median (Area B-3) - Phase 1
64E.B3.ASBM.105	Install Base Mix Asphalt - I-64 EB Median (Area B-3) - Phase 1	3 01-18-19 01-24-19				Install Base:Mix Asphalt - 1-64 EB Median (Area B-3) - Phase 1:
64W.B3.ASBM.105	Install Base Mix Asphalt - I-64 WB Median (Area B-3) - Phase 1	3 01-18-19 01-24-19				📕 Install Base Mix Asphalt - I-64 WB Median (Area B-3) - Phase 1
64E.B3.ASIM.105	Install Intermediate Mix Asphalt - I-64 EB Median (Area B-3) - Phase 1	2 04-02-19 04-04-19				I Install Intermediate Mix Asphalt - I-64 EB Median (Area B-3) - Phase 1
64W.B3.ASIM.105	Install Intermediate Mix Asphalt - I-64 WB Median (Area B-3) - Phase 1	2 04-02-19 04-04-19				Install Intermediate Mix Asphalt - I-64 WB Median (Area B-3) - Phase 1
64E.B3.ASGR.105	Install Asphalt at Guardrail - I-64 EB Median (Area B-3) - Phase 1	2 04-05-19 04-08-19				Install Asphalt at Guardrail - I-64 EB Median (Area B-3) - Phase 1
64W.B3.ASGR.105	Install Asphalt at Guardrail - I-64 WB Median (Area B-3) - Phase 1	2 04-05-19 04-08-19	·			Install Asphalt at Guardrail - I-64 WB Median (Area B-3) - Phase 1
64E.B3.GRAIL.105	Install Guardrail - I-64 EB Median (Area B-3) - Phase 1	2 04-09-19 04-11-19				I Install Guardrail - I-64 EB Median (Area B-3) - Phase 1
64W.B3.GRAIL.105	Install Guardrail - I-64 WB Median (Area B-3) - Phase 1	2 04-09-19 04-11-19				I Install Guardrail - I-64 WB Median (Area B-3) - Phase 1
						┝╴╴┼╶╴┽╴╴┽╴╴┼╴╴┼╴╴┼╴╴┾╴╴┼╴╴┽╴╴┾╴╴┽╴╴┽╴╴┽╴╴┾╴╴┼╴╴┾╴╴┾╴╴┼╴╴┼╴╴┼╴╴┼╴╴┼╴╴┼╴╴┼╴╴┾╴╴┼╴╴┼
64E.B3.RBAR.105	Remove Temp. Barrier Wall - I-64 EB Median (Area B-3) - Phase 1	2 04-12-19 04-15-19				I Remove Temp. Barrier Wall - I⊦64 EB Median (Area B-3) - Phase 1
64W.B3.RBAR.105	Remove Temp. Barrier Wall - I-64 WB Median (Area B-3) - Phase 1	2 04-12-19 04-15-19				Remove Temp. Barrier Wall - I-64 WB Median (Area B-3) - Phase 1
64E.B1.TBAR.105	Install Temp. Barrier Wall - I-64 EB Median (Area B-1) - Phase 1	4 04-16-19 04-22-19				Linstall Temp, Barrier Wall + I-64 EB Median (Area B-1) - Phase 1
64W.B1.TBAR.105	Install Temp. Barrier Wall - I-64 WB Median (Area B-1) - Phase 1	4 04-16-19 04-22-19				■ Install Temp, Barrier Wall + I-64 WB Median (Area B-1) - Phase 1
64M.B1.STORM.105	Install Storm Drain Pipe & Structures - I-64 Median (Area B-1) - Phase 1	16 04-23-19 05-21-19				Install Storm Drain Pipe & Structures - I+64 Median (Area B-1) - Phase 1
64E.B1.DRDW.105	Demo Existing Roadway - I-64 EB Median (Area B-1) - Phase 1	5 05-23-19 05-30-19				📕 Demp Existing Roadway - I-64 EB Median (Area B-1) - Phase 1
64E.B1.RGRD.105	Earthwork - Fine Cut/Fill & Grading - I-64 EB Median (Area B-1) - Phase 1	4 05-31-19 06-06-19				Earthwork - Fine Cut/Fill & Grading - I-64 EB Median (Area B-1) - Phase 1
64E.B1.STAB.105	Stabilize Subgrade - I-64 EB Median (Area B-1) - Phase 1	4 06-04-19 06-11-19				Stabilize Subgrade - I-64 EB Median (Area B-1) - Phase 1
64E.B1.BASE.105	Install Sub-Base - I-64 EB Median (Area B-1) - Phase 1	10 06-10-19 06-27-19				Install Sub-Base - I-64 EB Median (Area B-1) - Phase 1
64E.B1.OGDL.105	Install Open Graded Drainage Layer - I-64 EB Median (Area B-1) - Phase	2 06-28-19 07-01-19				Install Open Graded Drainage Layer - I-64 EB Median (Area B-1) - Phase 1
64E.B1.ASBM.105	Install Base Mix Asphalt - I-64 EB Median (Area B-1) - Phase 1	5 07-02-19 07-11-19				📕 Install Base Mix Asphalt - I-64 EB Median (Area B-1) - Phase 1
64E.B1.ASIM.105	Install Intermediate Mix Asphalt - I-64 EB Median (Area B-1) - Phase 1	2 07-15-19 07-16-19				I ,Install Intermediate Mix Asphalt - I-64 EB Median (Area B-1) - Phase 1
64E.B1.ASGR.105	Install Asphalt at Guardrail - I-64 EB Median (Area B-1) - Phase 1	3 07-19-19 07-23-19				I Install Asphalt at Guardrail - I+64 EB Median (Area B-1) - Phase 1
64E.B1.GRAIL.105	Install Guardrail - I-64 EB Median (Area B-1) - Phase 1	3 07-26-19 07-30-19				Install Guardrail - I-64 EB Median (Àrea B-1) - Phase 1
64E.B1.RBAR.105	Remove Temp. Barrier Wall - I-64 EB Median (Area B-1) - Phase 1	4 08-01-19 08-06-19				Remove Temp. Barrier Wall - I-64 EB Median (Area B-1) - Phase 1
64E.B1.TSTR.205	Eradicate & Install Temp. Striping (Shifting Traffic to Temp Crossover/Nev	2 08-08-19 08-09-19				I Eradicate & Install Temp. Striping (Shifting Traffic to Temp Crossover/New Bridge);-
64E.B1.TBAR.205	Install Temp. Barrier Wall - I-64 EB Outside (Area B-1) - Phase 2	4 08-12-19 08-15-19	. i			I Install Temp. Barrier Wall - I-64 EB Outside (Area B-1) - Phase 2
A3.B642.SA.DDEK.205	Demo Parapet & Sawcut - Span a - B-642 - Stage 2	1 08-16-19 08-16-19				I Demo Parapet & Sawcut - Span a - B-642 - Stage 2
A3.B642.SA.DGRD.205	Remove Deck & Girders - Span a - B-642 - Stage 2	1 08-17-19 08-17-19				I Remove Deck & Girders - Span a - B-642 - Stage 2
A3.B642.SB.DDEK.205	Demo Parapet & Sawcut - Span b - B-642 - Stage 2	1 08-19-19 08-19-19				Demo Parapet & Sawcut - Span b - B-642 - Stage 2
A3.B642.SB.DGRD.205	Remove Deck & Girders - Span b - B-642 - Stage 2		· · · · · · · · ·			╞╍╞╍╞╍╞╍╞╍╞╍╞╍╞╍╞╍╞╍╞╍╞╍╞╍╞╍╞╍╞╍╞╍╞╍╞╍╞╍
		1 08-20-19 08-20-19				I Remove Deck & Girders - Span b - B-642 - Stage 2
A3.B642.SC.DDEK.205	Demo Parapet & Sawcut - Span c - B-642 - Stage 2	1 08-22-19 08-22-19				I Demo Parapet & Sawout - Span c - B-642 - Stage 2
A3.B642.SC.DGRD.205	Remove Deck & Girders - Span c - B-642 - Stage 2	1 08-23-19 08-23-19				I Remove Deck & Girders - Spanic - B-642 - Stage 2
A3.B642.SD.DDEK.205	Demo Parapet & Sawcut - Span d - B-642 - Stage 2	1 08-24-19 08-24-19				I Demo Parapet & Sawcut - Span d - B-642 - Stage 2
A3.B642.SD.DGRD.205	Remove Deck & Girders - Span d - B-642 - Stage 2	1 08-26-19 08-26-19				I Remove Deck & Girders - Span d - B-642 - Stage 2
Remaining Level of Eff	ort Critical Remaining Work	State Project No.: 0064-965	-229, P-1	01, R-201, C-501, B	-638, B-639, B-640,	CRITICAL PATH PR
Actual Work	♦ Milestone	B-641, B-6	42, B-643	3, D-609, D-610, D-6	11	Page 2
	· · · · · · · · · · · · · · · · · · ·			b.: NHPP-064-3 (498)		Print Date: 09-10

SKANSKA	Activity Marga			city Improvements - Segment III	Proposal Date: September 14, 201 2019 2020 2021
Activity ID	Activity Name	Original Start F	inish	2018 Qtr 4 Qtr 1 Qtr 2 Qtr 3 Qtr 4 Qtr 1 0	2019 2020 2021 Qtr 2 Qtr 3 Qtr 4 Qtr 1 Qtr 2 Qtr 3 Qtr 4 Qtr 1 Qtr 2 Qtr 3 t
				O N D J F M A M J J A S O N D J F M A	
A3.B642.SE.DDEK.205	Demo Parapet & Sawcut - Span e - B-642 - Stage 2	1 08-27-19 0			I Demo Parapet & Sawcut - Span e - B-642 - Stage 2
A3.B642.SE.DGRD.205	Remove Deck & Girders - Span e - B-642 - Stage 2	1 08-29-19 0			Remove Deck & Girders - Span e - B-642 - Stage 2
A3.B642.SF.DDEK.205	Demo Parapet & Sawcut - Span f - B-642 - Stage 2	1 08-30-19 0			I Demo Parapet & Sawcut - Span f - B-642 - Stage 2
A3.B642.SF.DGRD.205	Remove Deck & Girders - Span f - B-642 - Stage 2	1 08-31-19 0	8-31-19		Remove Deck & Girders - Span f - B-642 - Stage 2
A3.B642.SG.DDEK.205	Demo Parapet & Sawcut - Span g - B-642 - Stage 2	1 09-03-19 0	9-03-19		I Demo Parapet & Sawcut - Span g - B-642 - Stage 2
A3.B642.SG.DGRD.205	Remove Deck & Girders - Span g - B-642 - Stage 2	1 09-04-19 0	9-04-19		I Remove Deck & Girders - Span g - B-642 - Stage 2
A3.B642.SH.DDEK.205	Demo Parapet & Sawcut - Span h - B-642 - Stage 2	1 09-05-19 0	9-05-19		I Demo Parapet & Sawcut - Span h - B-642 - Stage 2
A3.B642.SH.DGRD.205	Remove Deck & Girders - Span h - B-642 - Stage 2	1 09-06-19 0	9-06-19		I Remove Deck & Girders - Span h - B-642 - Stage 2
A3.B642.SI.DDEK.205	Demo Parapet & Sawcut - Span i - B-642 - Stage 2	1 09-07-19 0	9-07-19		I Demo Parapet & Sawcut - Span i - B-642 - Stage 2
A3.B642.SI.DGRD.205	Remove Deck & Girders - Span i - B-642 - Stage 2	1 09-09-19 0	9-09-19		I Remove Deck & Girders - Span i - B-642 - Stage 2
A3.B642.SJ.DDEK.205	Demo Parapet & Sawcut - Span j - B-642 - Stage 2	1 09-10-19 0	9-10-19		I Demo Parapet & Sawcut - Span j - B-642 - Stage 2
A3.B642.SJ.DGRD.205	Remove Deck & Girders - Span j - B-642 - Stage 2	1 09-12-19 0	9-12-19		I Remove Deck & Girders - Span j - B-642 - Stage 2
A3.B642.SK.DDEK.205	Demo Parapet & Sawcut - Span k - B-642 - Stage 2	1 09-13-19 0	9-13-19		I :Demo Parapet & Sawcut - Span k - B-642 - Stage 2
A3.B642.SK.DGRD.205	Remove Deck & Girders - Span k - B-642 - Stage 2	1 09-14-19 0	9-14-19	1	I Remove Deck & Girders - Span k - B-642 - Stage 2
A3.B642.SL.DDEK.205	Demo Parapet & Sawcut - Span I - B-642 - Stage 2	1 09-16-19 0	9-16-19		I Demo Parapet & Sawcut - Span I - B-642 - Stage 2
A3.B642.SL.DGRD.205	Remove Deck & Girders - Span I - B-642 - Stage 2	1 09-17-19 0	9-17-19	+ - -	I ¦ Remove Deck & Girders - Span I⊱ B⊦642 - Stage 2
A3.B642.SM.DDEK.205	Demo Parapet & Sawcut - Span m - B-642 - Stage 2	1 09-19-19 0	9-19-19		I Demo Parapet & Sawcut - Span m - B-642 - Stage 2
A3.B642.SM.DGRD.205	Remove Deck & Girders - Span m - B-642 - Stage 2	1 09-20-19 0	9-20-19		Remove Deck & Girders - Span m - B-642 - Stage 2
A3.B642.SN.DDEK.205	Demo Parapet & Sawcut - Span n - B-642 - Stage 2	1 09-21-19 0			I Demo Parapet & Sawcut - Span n - B-642 - Stage 2
A3.B642.SN.DGRD.205	Remove Deck & Girders - Span n - B-642 - Stage 2	1 09-23-19 0			I Rémove Deck & Girders - Span n - B-642 - Stage 2
A3.B642.SO.DDEK.205	Demo Parapet & Sawcut - Span o - B-642 - Stage 2	1 09-24-19 0		<mark>┥</mark> ╶╴ <mark>┥</mark> ╶╴╡╌╶┼╌╌┾╌╴┼╌╴┼╌╴┾╶╴┼╴╴┽╴╴┾╴╴┾╴╴┼╴╴┼╴╴┼╴╴┼	I: Demo Parapet & Sawçut - Span o - B-642 - Stage 2
A3.B642.SO.DGRD.205	Remove Deck & Girders - Span o - B-642 - Stage 2	1 09-26-19 0			Remove Deck & Girders - Spano - B-642 - Stage 2
A3.B642.SP.DDEK.205	Demo Parapet & Sawcut - Span p - B-642 - Stage 2	1 09-27-19 0			Demo Parapet & Sawcut - Span p - B-642 - Stage 2
A3.B642.SP.DGRD.205	Remove Deck & Girders - Span p - B-642 - Stage 2	1 09-28-19 0			Remove Deck & Girders - Span p - B-642 - Stage 2
A3.B642.SQ.DDEK.205	Demo Parapet & Sawcut - Span q - B-642 - Stage 2	1 09-30-19 0			
					Demo Parapet'& Sawcut - Span q - B-642 - Stage 2
A3.B642.SQ.DGRD.205	Remove Deck & Girders - Span q - B-642 - Stage 2	1 10-01-19 1			Remove Deck & Girders - Span q + B-642 - Stage 2
B2.B642.TST.PLE.AA	Drive Test Pie - Abut A - B-642 - Phase 2	2 10-02-19 1			I Drive Test Pie - Abut A - B-642 - Phase 2
B2.B642.TST.PLE.P01	Drive Test Pile - Pier 01 - B-642 - Phase 2	2 10-04-19 1			I Drive Test Pie - Pier 01 - B-642 - Phase 2
B2.B642.TST.PLE.P02	Drive Test Pile - Pier 02 - B-642 - Phase 2	2 10-07-19 1			I Drive Test Pie - Pier 02 - B-642 - Phase 2
B2.B642.RSTRK.005	Restrike Test Pile - Abut A & Piers 1 & 2 - B-642 - Phase 2	1 10-16-19 1		↓ <mark>↓</mark> ┆┆┆┆┆┆┆┆┆┆┆┆┆	Restrike Test Pile - Abut A & Piers 1 & 2 - B+642 - Phase 2
PREP.B642.PILE.005	Prepare Pile Reccomendations - Abut A & Piers 1 & 2 - B-642 - Phase				I Prepare Pile Reccomendations - Abut A& Piers 1 & 2 - B-642 - Phase 1
ORD.B642.PILE.005	Order Production Piles- Abut A & Piers 1 & 2 - B-642 - Phase 1		0-18-19		◆ Order Production Piles- Abut A & Piers 1 & 2 - B-642 - Phase 1
SUBM.B642.PILE.005	Submit Pile Reccomendations to VDOT - Abut A & Piers 1 & 2 - B-642	- P 0 1	0-18-19		Submit Pile Reccomendations to VDOT - Abut A & Piers 1 & 2 - B-642 - Phase
VDOT.B642.PILE.005	VDOT Review & Approve Pile Reccomendations - Abut A & Piers 1 & 2	2 - 1 21 10-19-19 1	1-08-19		VDOT Review & Approve Pile Reccomendations - Abut A & Piers 1 & 2 - B-t
FAB.PRD.PILE.EQC.005	Fabricate Production Piles- Abut A & Piers 1 & 2 - B-642 - Phase 1	15 10-21-19 1	1-08-19		Fabricate Production Piles- Abut A'& Piers 1 & 2'- B-642 - Phase 1
A3.B642.ABA.PLE.205	Drive Prod. Piles - Abut A - B-642 - Stage 2	3 11-09-19 1 ⁻	1-12-19		┃ Drive Prod. Piles - Abut A - B-642 - Stage 2
A3.B642.ABA.ABUT.205	Construct Abutment - Abut A - B-642 - Stage 2	15 11-13-19 1	2-03-19		📕 Construct Abutment - Abut A - B-642 - Stage 2
A3.B642.SA.GRD.205	Install Conc. Girders - Span a - B-642 - Stage 2	3 12-05-19 1	2-07-19		I Install Conc. Girders: - Spari a - B-642 - Stage 2
A3.B642.SA.DEK.205	Install Bridge Deck - Span a - B-642 - Stage 2	15 12-09-19 0	1-30-20]] : : : : : : : : : : : : : : : : : :	Install Bridge Deck - \$pan a - B-642 - \$tage 2
A3.B642.SB.DEK.205	Install Bridge Deck - Span b - B-642 - Stage 2	12 01-25-20 0	2-20-20		📕 Install Bridge Deck - Span b - B-642 - Stage 2
A3.B642.SC.DEK.205	Install Bridge Deck - Span c - B-642 - Stage 2	12 02-06-20 0	3-03-20		Install Bridge Deck - Span c - B-642 - Stage 2
A3.B642.SD.DEK.205	Install Bridge Deck - Span d - B-642 - Stage 2	12 02-22-20 0	3-14-20	11:::::::::::::::::::::::::::::::::::::	📕 Install Bridge Deck - Span d - B-642 - Stage 2
A3.B642.SE.DEK.205	Install Bridge Deck - Span e - B-642 - Stage 2	12 03-05-20 0	3-23-20	1	Install Bridge Deck - Spari e - B-642 - Stage 2
A3.B642.SF.DEK.205	Install Bridge Deck - Span f - B-642 - Stage 2	12 03-16-20 0	3-31-20	1 🛛 🗉 🗄 🗄 🗄 🗄 🗄 🗄 🗄 🗄 🗄 🗄 🗄	Install Bridge Deck - Span f - B-642 - Stage 2
A3.B642.SG.DEK.205	Install Bridge Deck - Span g - B-642 - Stage 2	12 03-24-20 04			Install Bridge Deck - Span g - B-642 - Stage 2
Remaining Level of E	ffort Critical Remaining Work	State Project No.: 00)64-965	-229, P-101, R-201, C-501, B-638, B-639, B-640,	CRITICAL PATH PRIN
Actual Work	 ♦ Milestone 			42, B-643, D-609, D-610, D-611	Page 3 of
Remaining Work	Summary	F	ederal F	Project No.: NHPP-064-3 (498)	Print Date: 09-10-1
		C	Contract	ID Number: C00106689DB97	

A3.B642.SH.DEK.205 A3.B642.SI.DEK.205 A3.B642.SJ.DEK.205 A3.B642.SJ.DEK.205 A3.B642.SK.DEK.205	Activity Name Install Bridge Deck - Span h - B-642 - Stage 2	Original Start Duration	Finish		Qtr 4	0 += 1		018		- 4	0 += 1		2019					2020				2021
A3.B642.SI.DEK.205 A3.B642.SJ.DEK.205 A3.B642.SK.DEK.205	Install Bridge Deck - Span h - B-642 - Stage 2				au – j	QTI	Qtr 2		Qtr	4	Qtr 1	Qtr	2 Qtr	3 Qtr 4	⊢∣Qt	tr 1	Qtr 2	2 Qt	r 3	Qtr 4	Qtr 1	Qtr 2 Qtr 3
A3.B642.SI.DEK.205 A3.B642.SJ.DEK.205 A3.B642.SK.DEK.205	Install Bridge Deck - Span h - B-642 - Stage 2			_												FM	AM	JJA	AS	OND		AMJJAS
A3.B642.SJ.DEK.205 A3.B642.SK.DEK.205		12 04-02-2																1 1		- I - Î - I	1.1.1	- Stage 2
A3.B642.SK.DEK.205	Install Bridge Deck - Span i - B-642 - Stage 2	12 04-11-20															- 1 - 1					- Stage 2
	Install Bridge Deck - Span j - B-642 - Stage 2	12 04-20-2																	T			2 - Stage 2
	Install Bridge Deck - Span k - B-642 - Stage 2	12 04-27-2															- i i	- i i		- i i ii	- i i -	42 - Stage 2
A3.B642.SL.DEK.205	Install Bridge Deck - Span I - B-642 - Stage 2	15 05-07-2						·			· \ \ -		 				+		·			642 - Stage 2
A3.B642.SL.CUR.205	Cure Bridge Deck - Span I - B-642 - Stage 2	7 05-29-2																1 I I	, Ŭ,			542 - Stage 2
A3.B642.ABB.APR.205	Install Backwall, Joints, and Approach Slab - Abut B - B-642 - Stage																					Approach Slab - Abu
A3.B642.ABB.BAR.205	Install Approach Parapet - Abut B - B-642 - Stage 2	1 07-01-2																1.1			1 1	but B - B-642 - Stag
A3.B642.SAQ.GRV.205	Grind & Groove Bridge Deck - Spans a-I - B-642 - Stage 2	12 07-02-2																– C	Find &	Groove	Bridge De	ck - Spans a-I - B-6
64E.B1.RBAR.205	Remove Temp Barrier - I-64 EB Outside (Area B-1) - Phase 2	4 07-20-2	0 07-24-2	20									 									64 EB Outside (Are
64E.B1.TSTR.305	Eradicate & Install Temp. Striping (Shifting Traffic to Outside) - I-64 E	ΒΟι 2 07-27-2	0 07-28-2	20														i i	- i - i -	- i - i - i	- i i i i	Striping (Shifting Tra
64W.B1.TSTR.305	Eradicate & Install Temp. Striping (Shifting Traffic to Temp Crossover	/Nev 2 08-04-2	0 08-06-2	20															Eradi	cate & Ine	stall Temp	Striping (Shifting Tr
64W.B1.TBAR.305	Install Temp. Barrier Wall - I-64 WB Outside (Area B-1) - Phase 3	4 08-07-2	0 08-13-2	20															Insta	all Temp. E	Barrier Wa	all - I-64 WB Outside
64W.B3.TSTR.305	Eradicate & Install Temp. Striping (Shifting Traffic to Temp Crossover	/Nev 1 08-10-2	0 08-10-2	20														1	Erad	icate & In	stall Temp	. Striping (Shifting T
64W.B3.TBAR.305	Install Temp. Barrier Wall - I-64 WB Outside (Area B-3) - Phase 3	2 08-11-2	08-13-2	20														- i i	Insta	III Temp. E	Barrier Wa	all - I-64 WB Outside
A3.B643.SA.DDEK.305	Demo Parpet & Sawcut - Span a - B-643 - Stage 3	1 08-14-2	0 08-14-2	20														1	Dem	o Parpet	& \$awcut	- Span a + B-643 - \$
A3.B643.SA.DGRD.305	Remove Deck & Girders - Span a - B-643 - Stage 3	1 08-17-2	0 08-17-2	20															Ren	nove Deol	k & Girde	rs - Span a - B-643
A3.B643.SB.DDEK.305	Demo Parpet & Sawcut - Span b - B-643 - Stage 3	1 08-18-2	0 08-18-2	20						1									Den	no Parpet	& Sawcu	t - Span b - B-643 -
A3.B643.SB.DGRD.305	Remove Deck & Girders - Span b - B-643 - Stage 3	1 08-20-2	0 08-20-2	20															I Ren	nove Dec	k & Girde	rs - Span b - B-643
A3.B643.SC.DDEK.305	Demo Parpet & Sawcut - Span c - B-643 - Stage 3	1 08-21-2	0 08-21-2	20															I Der	no Parpet	t & Sawcu	lt - Span c - B-643 -
A3.B643.SC.DGRD.305	Remove Deck & Girders - Span c - B-643 - Stage 3	1 08-24-2	0 08-24-2	20																		rs - Span c - B-643
A3.B643.SD.DDEK.305	Demo Parpet & Sawcut - Span d - B-643 - Stage 3	1 08-25-2													i i				1.1			ut - Span d - B-643
A3.B643.SD.DGRD.305	Remove Deck & Girders - Span d - B-643 - Stage 3	1 08-26-2																	1 1			ers - Spanid - B-643
A3.B643.SE.DDEK.305	Demo Parpet & Sawcut - Span e - B-643 - Stage 3	1 08-27-2																	1 1		1.1	ut - Span e - B-643
A3.B643.SE.DGRD.305	Remove Deck & Girders - Span e - B-643 - Stage 3	1 08-28-2																	- i - i -			ers - Span e - B-64:
A3.B643.SF.DDEK.305	Demo Parpet & Sawcut - Span f - B-643 - Stage 3	1 08-31-2								•	· + + -				·							ut - Span f - B-643
A3.B643.SF.DGRD.305	Remove Deck & Girders - Span f - B-643 - Stage 3	1 00-01-2																			1 1	lers - Span f - B-64
A3.B643.SG.DDEK.305	Demo Parpet & Sawcut - Span g - B-643 - Stage 3	1 09-03-2																	1 1			ut - Span g - B-643
A3.B643.SG.DGRD.305		1 09-03-2																				lers - Span g - B-64
A3.B643.SH.DDEK.305	Remove Deck & Girders - Span g - B-643 - Stage 3														i i				- i - i -			
	Demo Parpet & Sawcut - Span h - B-643 - Stage 3	1 09-08-2					- { } }															cut - Span h - B-643
A3.B643.SH.DGRD.305	Remove Deck & Girders - Span h - B-643 - Stage 3	1 09-09-2																	- i - i -	- i - i - i	i i	ders - Span h - B-64
A3.B643.SI.DDEK.305	Demo Parpet & Sawcut - Span i - B-643 - Stage 3	1 09-10-2																	- i , i .	- 1 - 1		cut - Span i - B-643
A3.B643.SI.DGRD.305	Remove Deck & Girders - Span i - B-643 - Stage 3	1 09-11-2																	1.1		1.1	ders - Span i - B-64
A3.B643.SJ.DDEK.305	Demo Parpet & Sawcut - Span j - B-643 - Stage 3	1 09-14-2																	- i - i -			cut - Span j - B-643
A3.B643.SJ.DGRD.305	Remove Deck & Girders - Span j - B-643 - Stage 3	1 09-15-2											; ; ;									rders - Span j - B-64
A3.B643.SK.DDEK.305	Demo Parpet & Sawcut - Span k - B-643 - Stage 3	1 09-17-2																	- i - i -	- i - i - i	· ; ; ;	vcut - Span k - B-64
A3.B643.SK.DGRD.305	Remove Deck & Girders - Span k - B-643 - Stage 3	1 09-18-2	0 09-18-2	20															- i - i -			rders - Span k - B-6
A3.B643.SL.DDEK.305	Demo Parpet & Sawcut - Span I - B-643 - Stage 3	1 09-21-2																			1 I I I	wcut - Span I - B-64
A3.B643.SL.DGRD.305	Remove Deck & Girders - Span I - B-643 - Stage 3	1 09-22-2																	- i - i -	- i i i	i i	irders - Span I - B-6
A3.B643.SM.DDEK.305	Demo Parpet & Sawcut - Span m - B-643 - Stage 3	1 09-23-2	0 09-23-2	20				 					· · · ·							Demo Pa	rpet & Sa	wcut - Span m - B-6
A3.B643.SM.DGRD.305	Remove Deck & Girders - Span m - B-643 - Stage 3	1 09-24-2	0 09-24-2	20																Remove	Deck & G	irders - Span m - B
A3.B643.SN.DDEK.305	Demo Parpet & Sawcut - Span n - B-643 - Stage 3	1 09-25-2	0 09-25-2	20															- I	Demo Pa	rpet & Sa	wcut - Span n - B-6
A3.B643.SN.DGRD.305	Remove Deck & Girders - Span n - B-643 - Stage 3	1 09-28-2	0 09-28-2	20															i i	Remove	Deck & C	irders - Span n - B-
A3.B643.SO.DDEK.305	Demo Parpet & Sawcut - Span o - B-643 - Stage 3	1 09-29-2	0 09-29-2	20																Demo Pa	arpet & Sa	wcut - Span o - B-6
A3.B643.SO.DGRD.305	Remove Deck & Girders - Span o - B-643 - Stage 3	1 10-01-2	0 10-01-2	20															1	Remove	Deck & (Sirders - Span o - B
Remaining Level of Effor	rt Critical Remaining Work	State Project No	0.: 0064-96	65-229	9, P-101,	R-201	, C-501, B-	638, B-63	39, B-64	40,											CF	RITICAL PATH PRI
Actual Work	 ♦ Milestone 	-	B-641, B-	-642,	B-643, D-	-609, C	D-610, D-61	11														Page 4 o
Remaining Work	Summary		Federa	l Proje	ect No.: N	NHPP-C	064-3 (498))														Print Date: 09-10-

SKANSKA			•	ty Improvements - Segment III	Proposal Date: September 14, 2
ctivity ID	Activity Name	Original Start F Duration	inish	2018 Qtr 4 Qtr 1 Qtr 2 Qtr 3 Qtr 4 Qtr 1	2019 2020 2021 Qtr 2 Qtr 3 Qtr 4 Qtr 1 Qtr 2 Qtr 3 Qtr 4 Qtr 2 Qtr 3
				ONDJFMAMJJASONDJFM	<u>ΑΙΜΙΙ ΙΙΑΙS ΟΙΝΙΟ ΙΓΙΜΑΙΜΙΙ ΙΙΑΙS ΟΙΝΙΟ ΙΓΙΜΑΙΜΙΙ ΙΙΑ</u>
A3.B643.SP.DDEK.305	Demo Parpet & Sawcut - Span p - B-643 - Stage 3	1 10-02-20 1			I Demo Parpet & Sawcut - Span p - B-
A3.B643.SP.DGRD.305	Remove Deck & Girders - Span p - B-643 - Stage 3	1 10-05-20 1			I Remove Deck & Girders - Spah p-
A3.B643.SQ.DDEK.305	Demo Parpet & Sawcut - Span q - B-643 - Stage 3	1 10-06-20 1			I Demo Parpet & Sawcut - Span'q - B
A3.B643.SQ.DGRD.305	Remove Deck & Girders - Span q - B-643 - Stage 3	1 10-08-20 1	0-08-20		I Remove Deck & Girders - Span q-
A3.B643.ABB.DABT.305	Demo Abutment & Approach Slab - Abut B - B-643 - Stage 3	5 10-09-20 1	0-15-20		Demo Abutment & Approach Slab-
A3.B643.ABB.DPLE.305	Remove Abutment Piles - Abut B - B-643 - Stage 3	2 10-16-20 1	0-19-20		I Remove Abutment Piles - Abut B
A3.B643.P01.CAP.305	Construct Pier Cap (Remainder) - Pier 01 - B-643 - Stage 3	5 10-20-20 1	0-27-20		Construct Pier Cap (Remainder)
A3.B643.P02.CAP.305	Construct Pier Cap (Remainder) - Pier 02 - B-643 - Stage 3	5 10-27-20 1 ⁻	1-02-20		Construct Pier Cap (Remainder)
A3.B643.SB.GRD.305	Install Conc. Girders (Remainder) - Span b - B-643 - Stage 3	2 11-03-20 1 ⁻	1-05-20		Install Conc. Girders (Remainde
A3.B643.SA.DEK.305	Install Bridge Deck (Remainder) - Span a - B-643 - Stage 3	13 11-05-20 1	1-21-20		📕 Install Bridge Deck (Rémainde
A3.B643.SB.DEK.305	Install Bridge Deck (Remainder) - Span b - B-643 - Stage 3	10 11-13-20 1	1-28-20		📕 Install Bridge Deck (Remainde
A3.B643.SC.DEK.305	Install Bridge Deck (Remainder) - Span c - B-643 - Stage 3	10 11-21-20 1	2-08-20		📮 Install Bridge Deck (Remain
A3.B643.SD.DEK.305	Install Bridge Deck (Remainder) - Span d - B-643 - Stage 3	10 12-03-20 12	2-17-20		Install Bridge Deck (Remain
A3.B643.SE.DEK.305	Install Bridge Deck (Remainder) - Span e - B-643 - Stage 3	10 12-12-20 0	1-21-21		Install Bridge Deck (Re
A3.B643.SF.DEK.305	Install Bridge Deck (Remainder) - Span f - B-643 - Stage 3	10 12-21-20 0	1-29-21		Install Bridge Deck (Re
A3.B643.SG.DEK.305	Install Bridge Deck (Remainder) - Span g - B-643 - Stage 3	10 01-25-21 0	2-18-21		📕 i Install Bridge Deck (
A3.B643.SH.DEK.305	Install Bridge Deck (Remainder) - Span h - B-643 - Stage 3	10 02-09-21 0	3-02-21		🔲 Install Bridge Deck
A3.B643.SI.DEK.305	Install Bridge Deck (Remainder) - Span i - B-643 - Stage 3	10 02-25-21 0	3-12-21		📕 Install Bridge Ded
A3.B643.SJ.DEK.305	Install Bridge Deck (Remainder) - Span j - B-643 - Stage 3	10 03-08-21 0	3-20-21		📕 Install Bridge De
A3.B643.SK.DEK.305	Install Bridge Deck (Remainder) - Span k - B-643 - Stage 3	10 03-16-21 0	3-29-21		📕 Install Bridge De
A3.B643.SL.DEK.305	Install Bridge Deck (Remainder) - Span I - B-643 - Stage 3	10 03-25-21 0			
A3.B643.SL.CUR.305	Cure Bridge Deck - Span I - B-643 - Stage 3	7 04-09-21 0			Cure Bridge D
A3.B643.ABB.APR.305	Install Backwall, Joints, and Approach Slab (Remainder) - Abut B - B-643	15 04-16-21 0			Install Back
A3.B643.ABB.BAR.305	Install Approach Parapet - Abut B - B-643 - Stage 3	1 05-11-21 0			I Install Appr
A3.B643.SAQ.GRV.305	Grind & Groove Remainder of Bridge Deck - Spans a-I - B-643 - Stage 3	8 05-11-21 0			Grind & G
64W.B1.RBAR.305	Remove Temp. Barrier Wall - I-64 WB Outside (Area B-1) - Phase 3	4 05-25-21 0		<mark>-</mark>	
64W.B1.TSTR.310	Eradicate & Install Temp. Striping (Shifting Traffic to Final Configuration) -	2 06-01-21 0			I Eradicat
64W.B3.TSTR.310	Eradicate & Install Temp. Striping (Shifting Traffic to Final Configuration) -	1 06-04-21 0			Endicat
64E.B1.TSTR.310	Eradicate & Install Temp. Striping (Shifting Traffic to Final Configuration) -	2 06-07-21 0			I Eradicat
64E.B3.TSTR.310	Eradicate & Install Temp. Striping (Shifting Traffic to Final Configuration) -	1 06-10-21 0			
64.B3.GRAD.305	Remove Temp. Crossover and Finish Grade Median - I-64 Median (Area	10 06-11-21 0		<mark>-</mark>	Remo
MILE.CONST.A2.COMP			6-29-21		
MILE.CONST.AZ.COMP	Complete Construction Area B		6-29-21		◆ Comp
	Complete Construction Project Wide Construction Complete - Stage 3 - Area B				◆ Comp
MILE.CONST.A2.S3.FIN			6-29-21		◆ Const
CLOSE.PL.INSP	Conduct Punch-List Inspection	15 06-30-21 0			
CLOSE.PL.WORK	Perform Punch-List Work	30 07-22-21 0			
CLOSE.PL.FIN.INSP MILE.FC	Conduct Final Punch-List Inspection Final Completion	15 09-02-21 0 0 0	9-23-21 9-23-21		
Remaining Level of Effor	-			229, P-101, R-201, C-501, B-638, B-639, B-640, 2, B-643, D-609, D-610, D-611	CRITICAL PATH PF
Actual Work Remaining Work	Milestone			oject No.: NHPP-064-3 (498)	Prage : Print Date: 09-
Remaining Work	V Summary	1	2001011		

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ivity ID	Activity Name	Original Start Duration	Finish	Q 0	tr 4 (Qtr 1 0	Qtr 2	18 Qtr 3 J A S	Qtr 4	4 Qti DJI	- 1 - M A	20 Qtr 2 \ M J	Qtr 3	Qtr 4	Qt	tr 1 F M A	Qtr 2	2020 Qtr 3 J J A S	Qtr 4	Qtr DJF	1 Qtr	2021 2 Qti 7 J J <i>A</i>	tr 3 A
-64 Capacity Improv	ements - Segment III - Tech Proposal Schedul	e F ¹⁴²⁵ ¹⁰⁻³⁰⁻¹	7 09-23-21																				-
Milestone		1425 10-30-1	7 09-23-21																+ + +				-
Contract Milestones		964 10-30-1	7 09-23-21																			_	_
MILE.NOI	Notice of Intent to Award	0 10-30-1		- ↓	Notice o	of Intent to	Award																
MILE.NOA	Notice to Award	0	12-06-17	_		tice to Awa																	
		0						 		 	-++												
MILE.DBCE	Design-Build Contract Execution	0	01-09-18	_	1 1	Design-Bu	: : :		ecution														
MILE.NTP	Notice to Proceed	0	01-17-18	_	•	Notice to	Procee	ed															
MILE.FC	Final Completion	0	09-23-21																				
Design Milestones		235 12-06-1	7 11-12-18							11-12-18	, Desig	gn Milest	ones										
MILE.DGN.START	Start of Design (WSP NTP)	0	12-06-17	'	🔶 Sta	rt of Desig	n (WSF	P NTP)															
MILE.DGN.START10	Begin Scope Validation Period	0	01-17-18	3	•	Begin Sco	ope Vali	idation P	eriod								·						•
MILE.DGN.START20	End of Scope Validation Period	0	05-17-18	3			♦ En	d of Sco	pe Valida	tion Peri	bc												
MILE.DGN.COMP	Design Complete	0	11-12-18	-					•	Design C	omple	te											
Construction Milestone		704 09-10-1	8 06 20 21																				
Project Wide	5	704 09-10-1																				• 00-	
MILE.CONST.PW.START	Start Construction - Project Wide	704 09-10-1	09-10-18				-		Start C	ondtruct	io'n 'Dr		do										
		0		_					Start			Oject W	ue										
MILE.CONST.PW.COMP	Complete Construction Project Wide	0	06-29-21																			♦ Co	
West End (Area A)		678 09-10-1	8 05-21-21					V														05-21-2	:
MILE.CONST.A1.S1.ST	Start Construction - Stage 1 - Area A	0	09-10-18	_				•	Start C	onstruct	io'n - 'St	age 1 - <i>I</i>	Area A										
MILE.CONST.A1.S2.ST	Start Construction - Stage 2 - Area A	0	10-07-19)										Start C	Constr	uction -	Stage	2 - Area A					
MILE.CONST.A1.S1.FIN	Construction Complete - Stage 1 - Area A	0	05-12-20)													♦ C	onstructio	n Complet	e - Stage	e 1 - Area	A	
MILE.CONST.A1.COMP	Complete Construction - Area A	0	05-21-21																		• • •	Comple	3
MILE.CONST.A1.S2.FIN	Construction Complete - Stage 2 - Area A	0	05-21-21																		• • •	Constru	l
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MILE.CONST.A2.S1.FIN	Construction Complete - Stage 1 - Area B	0	08-06-19)					· · · · ·				🔶 Co	nstruction	Comp	olete - S	Stage 1	- Area B					
MILE.CONST.A2.S2.ST	Start Construction - Stage 2 - Area B	0	08-08-19)									🔶 Sta	rt Constru	uction	- \$taģe	2 - Are	a B					
MILE.CONST.A2.S3.ST	Start Construction - Stage 3 - Area B	0	07-23-20	_															t Construc				
MILE.CONST.A2.S2.FIN	Construction Complete - Stage 2 - Area B	0	08-04-20	_														♦ Co	nstruction	Comple	te - Stag		
MILE.CONST.A2.COMP	Complete Construction Area B	0	06-29-21				 															🔶 Co	-
MILE.CONST.A2.S3.FIN	Construction Complete - Stage 3 - Area B	0	06-29-21					_															
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CONT.DELV	Deliver Executed Contract to VDOT	1 01-09-18	01 00 19	0	N D J F M A M J J A S O N D J F M A M I Deliver Executed Contract to VDOT	
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SUBM.BL.SCHED	Submit Baseline Schedule to VDOT	0	04-17-18		 Submit Baseline Schedule to VDOT 	
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SV.DGN.DSV.015	Skanska Review Initial Project Wide Scope Validation	15 03-30-18			Skanska Review Initial Project Wide Scope	
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DGN.PW.CPS.FR.040	VDOT Review/Comment - Final Roadway - Construction Plan Set - P	roje 21	08-08-18	08-28-18				DOT Rev	iew/Comme	ent - Final Roady	way - Constru	uction Plan S
DGN.PW.CPS.FR.045	WSP Address Comm/PKG Sign & Seal - Final Roadway - AFC Plan S	Set - 10	08-29-18	09-12-18				🔲 WSP Add	ress Comm	1/PKG Sign & Se	al - Final Ro	adway - AF C
DGN.PW.CPS.FR.050	Skanska Internal Review - Final Roadway - AFC Plan Set - Project W	'ide 5	09-13-18	09-19-18				🛛 Skanska	Internal Re	eview - Fihal Roa	adway - AFC	Plan Set - Pi
DGN.PW.CPS.FR.055	Submit to VDOT - Final Roadway - AFC Plan Set - Project Wide	0		09-19-18				♦ Submit te	VDOT - F	inal Roadway - A	FC Plan Set	t - Project Wi
DGN.PW.CPS.FR.060	VDOT Issue AFC Plans - Final Roadway - Project Wide	21	09-20-18	10-10-18						Plans - Final Ro	adway - Pro	ject Wide
Bridge Design		341	12-07-17	11-12-18	Ì			▼ 11	12-18, Brid	ge Design		
I-64 EBL Over the Histo	oric Colonial Parkway (B-639)	341	12-07-17	11-12-18				→ 11-	12-18, I-64	EBL Over the H	listoric Color	nial Parkway
Preliminary Plan (Stag	ge I)	117	12-07-17	04-02-18	1		04-02-1	3, Preliminary Plan (Stage I)			
DGN.PRE.B639.005	Prepare Preliminary Plan - B-639	30	12-07-17	01-23-18			Prepare Prelimit	nary Plan - B-639				
DGN.PRE.B639.010	IDC Preliminary Plan - B-639	0		01-23-18			♦ IDC Preliminary					
DGN.PRE.B639.015	WSP Incorporate IDC Comments - Preliminary Plan - B-639	10	01-24-18	02-06-18			WSP Incorpor	ate IDC Comments	- Prelimina	ry Plan - B-639		
DGN.PRE.B639.020	WSP Pencils Down - Preliminary Plan - B-639	0		02-06-18				Down - Preliminary				
DGN.PRE.B639.025	WSP Internal Review/QC - Preliminary Plan - B-639	5	02-07-18	02-13-18				Review/QC - Prelir				
DGN.PRE.B639.030	WSP Address Comm/Package - Preliminary Plan - B-639			02-16-18				s Comm/Package -				
DGN.PRE.B639.035	Skanska Internal Review - Preliminary Plan - B-639	-		02-26-18				ernal Review - Prel				
DGN.PRE.B639.040	Submit to VDOT & NPS-COLO - Preliminary Plan - B-639	0		02-26-18				OOT & NPS-COLO	·····		· · · · · · · · · · · · · · · · · · ·	
DGN.PRE.B639.045	VDOT/NPS-COLO/VA SHPO Review/Comment - Preliminary Plan - E	3-63 35	02-27-18	04-02-18				IPS-COLO/VA SHP	1 1 1 1		ninarv Plan -	B-639
Final Plan (Stage II)	,,,,,,,			11-12-18					i i i i	I Plan (Stage II)		
DGN.FIN.B639.005	Produce Final Plan - B-639			07-25-18				Produce Final	1. 1. 1. 1			
DGN.FIN.B639.010	WSP Conduct VDOT RFC Pkg Coordination Meeting - B-639			04-19-18			I WSP	Conduct VDOT RF			- B-639	
DGN.FIN.B639.015	WSP Pencils Down - Final Plan - B-639	0		07-25-18				◆ WSP Pencils I				
DGN.FIN.B639.020	WSP Internal Review/QC - Final Plan - B-639			08-01-18					i i i i	- Final Plan - B-	639	
DGN.FIN.B639.025	WSP Address Comm/Package - Final Plan - B-639			08-06-18						ckage:- Final Pla		
DGN.FIN.B639.030	Skanska Internal Review - Final Plan - B-639			08-13-18				Skanska Inte	1 1 1 1			
DGN.FIN.B639.035	Submit to VDOT & NPS-COLO - Final Plan - B-639	0		08-13-18				Submit to VE				
DGN.FIN.B639.040	VDOT/NPS-COLO/VA SHPO Review/Comment - Final Plan - B-639			09-17-18					·	/A SHPO Reviev		EnglPhp
DGN.FIN.B639.045	WSP Address Comm/Pkg Sign & Seal - AFC Plan - B-639			10-01-18						- i i i i	i i i i	-i i i i
DGN.FIN.B639.045	Skanska Internal Review - AFC Plan - B-639			10-01-18						nm/Pkg Sign & S Review - AFC Pl		an - D-009
DGN.FIN.B639.050	Skallska internal Review - AFC Plan - B-639 Submit to VDOT & NPS-COLO - AFC Plan - B-639	0		10-08-18					i i i i	- i i i	i i i i	620
DGN.FIN.B639.060	VDOT/NPS-COLO/VA SHPO Review & VDOT Issue AFC Plans - B-6			11-12-18						NPS-COLO - A		
				11-12-18					بالتبابية والمتكر			
	oric Colonial Parkway (B-640)								1. 1. 1. 1	WBL Over the		nilai Parkway
Preliminary Plan (Stag				04-02-18				3, Preliminary Plan (Stage I)			
DGN.PRE.B640.005	Prepare Preliminary Plan - B-640			01-23-18		-		nary Plan - B-640				
DGN.PRE.B640.010	IDC Preliminary Plan - B-640	0		01-23-18			♦ IDC Preliminary					
DGN.PRE.B640.015	WSP Incorporate IDC Comments - Preliminary Plan - B-640	10	01-24-18	02-06-18				ate IDC Comments				
DGN.PRE.B640.020	WSP Pencils Down - Preliminary Plan - B-640	0		02-06-18				Down - Preliminary				
DGN.PRE.B640.025	WSP Internal Review/QC - Preliminary Plan - B-640	5	02-07-18	02-13-18				Review/QC - Prelir	1 1 1 1			
DGN.PRE.B640.030	WSP Address Comm/Package - Preliminary Plan - B-640	3	02-14-18	02-16-18			I W\$P Addres	s Comm/Package -	Preliminary	Plan - B-640		
DGN.PRE.B640.035	Skanska Internal Review - Preliminary Plan - B-640	5	02-20-18	02-26-18			Skanska Int	ernal Review - Prel	minary Plar	ı - B-640		
DGN.PRE.B640.040	Submit to VDOT & NPS-COLO - Preliminary Plan - B-640	0		02-26-18			Submit to VI	DOT & NPS-COLO	- Preliminai	y Plan - B-640		
DGN.PRE.B640.045	VDOT/NPS-COLO/VA SHPO Review/Comment - Preliminary Plan - E	3-64 35	02-27-18	04-02-18				IPS-COLO/VA SHP	QReview/⊄	Comment - Prelir	hinary Plan -	B-640
Final Plan (Stage II)		224	04-03-18	11-12-18				▼ 11	12-18, Fina	I Plan (Stage II)		
DGN.FIN.B640.005	Produce Final Plan - B-640	80	04-03-18	07-25-18				Produce Final	Plan - B-64	D		
	rt Critical Remaining Work	State F	Project No	: 0064-965-	229 P.	-101	, R-201, C-501, B-6	38. B-639 B-640	<u> </u>			
Remaining Level of Effor												
Remaining Level of Effor	-	0.0.0					D-609, D-610, D-61					
Remaining Level of Effor Actual Work Remaining Work				B-641, B-64	2, B-64	43, C						

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KANSKA	Activity Name	Original Start Finish		ovements - Segment III 2018		2019	20	20	Proposal D	202 [°]	
		Duration	Qtr 4	Qtr 1 Qtr 2 Qtr 3		r 2 Qtr 3 Qtr 4	Qtr 1 Qtr 2	Qtr 3 0		Qtr 2	Qtr 3
DGN.FIN.B640.010	WSP Conduct VDOT RFC Pkg Coordination Meeting - B-640	5 04-13-18 04-19-1			S O N D J F M A t VDOT RFC Pkg Coordina		JFMAMJ	JASO	NDJF	ΜΙΑΙΜΙ	JJJA
DGN.FIN.B640.015	WSP Pencils Down - Final Plan - B-640	0 07-25-	i		P Pencils Down - Final Pla	, , , , , , , , , , , , , , , , , , ,					
DGN.FIN.B640.020	WSF Hereis Down - Final Plan - B-640	5 07-26-18 08-01-1			SP Internal Review/QC - Fi				,		
DGN.FIN.B640.025	WSP Address Comm/Package - Final Plan - B-640	3 08-02-18 08-06-			SP Address Comm/Packa						
DGN.FIN.B640.020	Skanska Internal Review - Final Plan - B-640	5 08-07-18 08-13-1	— i i		skanska Internal Review - F						
DGN.FIN.B640.035	Skaliska internal Review - Final Plan - B-040 Submit to VDOT & NPS-COLO - Final Plan - B-640	0 08-13-			submit to VDOT & NPS-CO						
DGN.FIN.B640.035	VDOT/NPS-COLO/VA SHPO Review/Comment - Final Plan - B-640	35 08-14-18 09-17-1	i	The second se	UDOT/NPS-COLO/VA'S						
DGN.FIN.B640.040	WSP Address Comm/Pkg Sign & Seal - AFC Plan - B-640	10 09-18-18 10-01-		·					,		
DGN.FIN.B640.045	Skanska Internal Review - AFC Plan - B-640	5 10-02-18 10-08-1			 WSP Address Comm/I Skanska Internal Rev 		1- Б-040				
			÷				40				
DGN.FIN.B640.055	Submit to VDOT & NPS-COLO - AFC Plan - B-640				Submit to VDOT & NF			D 040			
DGN.FIN.B640.060	VDOT/NPS-COLO/VA SHPO Review & VDOT Issue AFC Plans - B-640	35 10-09-18 11-12-1				WA SHPO Review & VDO		- B-640			
	314 Lakeshead Drive (B-641)	234 02-27-18 10-18-1			10-18-18, I-64 EBL C	ver Route 1314 Lakes ne	ad Drive (B-641)				
Preliminary Plan (Sta		94 02-27-18 05-31-1	8		, Preliminary Plan (Stage I)						
DGN.PRE.B641.005	Prepare Preliminary Plan - B-641	30 02-27-18 04-09-7	_ :		nary Plan - B-641						
DGN.PRE.B641.010	IDC Preliminary Plan - B-641	0 04-09-7	18	IDC Preliminary							
DGN.PRE.B641.015	WSP Incorporate IDC Comments - Preliminary Plan - B-641	10 04-10-18 04-23-7	8		rate IDC Comments - Prelii						
DGN.PRE.B641.020	WSP Pencils Down - Preliminary Plan - B-641	0 04-23-1	8		Down - Preliminary Plan - E						
DGN.PRE.B641.025	WSP Internal Review/QC - Preliminary Plan - B-641	5 04-24-18 04-30-7	8	WSP Interna	l Review/QC - Preliminary I	lan - B-641					
DGN.PRE.B641.030	WSP Address Comm/Package - Preliminary Plan - B-641	3 05-01-18 05-03-7	8	VSP Addres	s Comm/Package - Prelim	nary Plan - B-641					
DGN.PRE.B641.035	Skanska Internal Review - Preliminary Plan - B-641	5 05-04-18 05-10-7	8	Skanska In	ternal Review - Preliminary	Plan - B-641					
DGN.PRE.B641.040	Submit to VDOT - Preliminary Plan - B-641	0 05-10-1	18	 Submit to V 	DOT - Preliminary Plan - B-	641					
DGN.PRE.B641.045	VDOT Review/Comment - Preliminary Plan - B-641	21 05-11-18 05-31-1	8	🔲 VDOT Re	view/Comment - Prelimina	y Plah - B-641					
Final Plan (Stage II)		161 05-11-18 10-18-1	8		▼ 10-18-18, Final Plan	Stage II)					
DGN.FIN.B641.005	Produce Final Plan - B-641	55 05-11-18 07-30- ²	8	Pro	oduce Final Plan - B-641						
DGN.FIN.B641.010	WSP Conduct VDOT RFC Pkg Coordination Meeting - B-641	5 06-11-18 06-15-	18	I WSP ¢	onduct VDOT RFC Pkg Co	ordination Meeting - B-64					
DGN.FIN.B641.015	WSP Pencils Down - Final Plan - B-641	0 07-30-1	18	♦ W:	SP Pencils Down - Final Pla	n - B-641					
DGN.FIN.B641.020	WSP Internal Review/QC - Final Plan - B-641	5 07-31-18 08-06-7	18	w a	SP Internal Review/QC - F	nal Plan - B-641					
DGN.FIN.B641.025	WSP Address Comm/Package - Final Plan - B-641	3 08-07-18 08-09-1	8	0 10	/SP Address' Comm/Packa	ge - Final Plan - B-641	++++++++++++				
DGN.FIN.B641.030	Skanska Internal Review - Final Plan - B-641	5 08-10-18 08-16-1	8	0 5	Skanska Internal Review - I	inal Plan - B-641					
DGN.FIN.B641.035	Submit to VDOT - Final Plan - B-641	0 08-16-	8	♦ 5	Submit to VDOT - Final Plan	- B-641					
DGN.FIN.B641.040	VDOT Review/Comment - Final Plan - B-641	21 08-17-18 09-06-7	8		VDOT Review/Comment	Final Plan - B-641					
DGN.FIN.B641.045	WSP Address Comm/Pkg Sign & Seal - AFC Plan - B-641	10 09-07-18 09-20-2	8		WSP Address Comm/PI	g Sign & Seal - AFC Plan	- B-641				
DGN.FIN.B641.050	Skanska Internal Review - AFC Plan - B-641	5 09-21-18 09-27-2			Skanska Internal Revie						
DGN.FIN.B641.055	Submit to VDOT - AFC Plan - B-641	0 09-27-	18		Submit to VDOT - AFC	Plan - B-641					
DGN.FIN.B641.060	VDOT Issue AFC Plans - B-641	21 09-28-18 10-18-7	8		UDOT Issue AFC Pla	ns - B-641					
I-64 WBL Over Route 1	1314 Lakeshead Drive (B-638)	234 02-27-18 10-18-1	8		10-18-18, I-64 WBL	Over Route 1314 Lakeshe	ad Drive (B-638)				
Preliminary Plan (Sta		94 02-27-18 05-31-1		▼ 05-31-18	, Preliminary Plan (Stage I)						
DGN.PRE.B638.005	Prepare Preliminary Plan - B-638	30 02-27-18 04-09-1	· · · · · · · · ·		nary Plan - B-638						
DGN.PRE.B638.010	IDC Preliminary Plan - B-638	0 04-09-	- :	↓ IDC Preliminary							
DGN.PRE.B638.015	WSP Incorporate IDC Comments - Preliminary Plan - B-638	10 04-10-18 04-23-1			rate IDC Comments - Preli	nihary Plan - R-638					
DGN.PRE.B638.020	WSP Pencils Down - Preliminary Plan - B-638	0 04-23-	_ : :		Down - Preliminary Plan - E						
DGN.PRE.B638.025	WSF Hereis Down - Heiminary Plan - B-638	5 04-24-18 04-30-7	÷	The second second second second	Review/QC - Preliminary Fian - L						
DGN.PRE.B638.030	WSP Address Comm/Package - Preliminary Plan - B-638	3 05-01-18 05-03-			s Comm/Package - Prelim						
DGN.PRE.B638.035	Skanska Internal Review - Preliminary Plan - B-638	5 05-04-18 05-10-	- :		ernal Review - Preliminary						
DGN.PRE.B638.040	Skaliska internal Review - Preliminary Plan - B-638 Submit to VDOT - Preliminary Plan - B-638	0 05-10-	i		DOT - Preliminary Plan - B-						
Remaining Level of Effe	ort Critical Remaining Work	State Project No.: 0064-96	65-229, P-1	01, R-201, C-501, B-638, B-6	39, B-640,				F	ULL SCHE	
Actual Work	 ♦ Milestone 	,	,	B, D-609, D-610, D-611							Page 6
Remaining Work	Summary	Federa	I Project N	o.: NHPP-064-3 (498)						Print D	Date: 09-

KANSKA	Activity Name	Original Start Finish	, ,	vements - Segment	018	20	19	2	020	roposal Dat	2021	,
y ID		Duration	Qtr 4	Qtr 1 Qtr 2	Qtr 3 Qtr 4 C	tr 1 Qtr 2	Qtr 3 Qtr 4	Qtr 1 Qtr 2	Qtr 3 Qtr 4		Qtr 2	Qtr 3
DGN.PRE.B638.045	VDOT Review/Comment - Preliminary Plan - B-638	21 05-11-18 05-31-18	ONC		JASONDJ VDOT Review/Comment			JFMAMJ	JASONC	JFM	AMJ	JA
Final Plan (Stage II)		161 05-11-18 10-18-18			▼ 10-18-18.		i i i i i					
	Produce Final Plan - B-638	55 05-11-18 07-30-18			Produce Final Plan	· · · · · · · · · · · · · · · · · · ·		· + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + +				
DGN.FIN.B638.010	WSP Conduct VDOT RFC Pkg Coordination Meeting - B-638	5 06-11-18 06-15-18			W\$P Conduct VDOT R		tion Meeting - B-63					
DGN.FIN.B638.015	WSP Pencils Down - Final Plan - B-638	0 07-30-18			♦ WSP Pencils Down	, i i i i i	, , , , , , , , , , , , , , , , , , ,					
DGN.FIN.B638.020	WSP Internal Review/QC - Final Plan - B-638	5 07-31-18 08-06-18			WSP Internal Rev							
DGN.FIN.B638.025	WSP Address Comm/Package - Final Plan - B-638	3 08-07-18 08-09-18			WSP Address Co							
DGN.FIN.B638.030	Skanska Internal Review - Final Plan - B-638	5 08-10-18 08-16-18			Skanska Interna			· · · · · · · · · · · · · · · · · · ·				
DGN.FIN.B638.035	Submit to VDOT - Final Plan - B-638	0 08-16-18			 Submit to VDOT 							
DGN.FIN.B638.040	VDOT Review/Comment - Final Plan - B-638	21 08-17-18 09-06-18			VDOT Review							
DGN.FIN.B638.045	WSP Address Comm/Pkg Sign & Seal - AFC Plan - B-638	10 09-07-18 09-20-18						D 620				
DGN.FIN.B638.045						ernal Review - Al	n & Seal - AFC Plar	- 8-036				
	Skanska Internal Review - AFC Plan - B-638	5 09-21-18 09-27-18										
DGN.FIN.B638.055	Submit to VDOT - AFC Plan - B-638	0 09-27-18				DOT - AFC Plan						
DGN.FIN.B638.060	VDOT Issue AFC Plans - B-638	21 09-28-18 10-18-18				ue AFC Plans - E						
I-64 EBL Over Queens		315 12-07-17 10-17-18					ueens Creek (B-64	2)				
_Preliminary Plan (Sta	· · · · · · · · · · · · · · · · · · ·	103 12-07-17 03-19-18			8, Preliminary Plan (Stage	1)						
DGN.PRE.B642.005	Prepare Preliminary Plan - B-642	30 12-07-17 01-23-18		💻 🛛 Prepare Prelim	ninary Plan - B-642							
DGN.PRE.B642.010	IDC Preliminary Plan - B-642	0 01-23-18		IDC Preliminar	y Plan - B-642							
DGN.PRE.B642.015	WSP Incorporate IDC Comments - Preliminary Plan - B-642	10 01-24-18 02-06-18		WSP Incorpo	orate IDC Comments - Pr	eliminary Plan - E	-642					
DGN.PRE.B642.020	WSP Pencils Down - Preliminary Plan - B-642	0 02-06-18		WSP Pencils	Down - Preliminary Plan	- B-642						
DGN.PRE.B642.025	WSP Internal Review/QC - Preliminary Plan - B-642	5 02-07-18 02-13-18		WSP Interna	al Review/QC - Preliminal	y Plan - B-642						
DGN.PRE.B642.030	WSP Address Comm/Package - Preliminary Plan - B-642	3 02-14-18 02-16-18		I W\$P Addre	ss Comm/Package - Prel	iminary Plan - B-6	642					
DGN.PRE.B642.035	Skanska Internal Review - Preliminary Plan - B-642	5 02-20-18 02-26-18		Skanska li	nternal Review - Prelimina	ry Plah - B-642		+ + 				
DGN.PRE.B642.040	Submit to VDOT - Preliminary Plan - B-642	0 02-26-18		Submit to V	/DOT - Preliminary Plan -	B-642						
DGN.PRE.B642.045	VDOT Review/Comment - Preliminary Plan - B-642	21 02-27-18 03-19-18			keview/Comment - Prelim	nary Plan - B-64	2					
Final Plan (Stage II)		233 02-27-18 10-17-18			▼ 10+17+18,	Final Plan (Stage	ell)					
DGN.FIN.B642.005	Produce Final Plan - B-642	107 02-27-18 07-27-18			Produce Final Plan	- B-642						
DGN.FIN.B642.010	WSP Conduct VDOT RFC Pkg Coordination Meeting - B-642	5 03-30-18 04-05-18			Conduct VDOT RFC Pkg	Coordination Me	eting - B-642		· -			
DGN.FIN.B642.015	WSP Pencils Down - Final Plan - B-642	0 07-27-18			♦ WSP Pencils Dowr							
DGN.FIN.B642.020	WSP Internal Review/QC - Final Plan - B-642	5 07-30-18 08-03-18			WSP Internal Rev							
DGN.FIN.B642.025	WSP Address Comm/Package - Final Plan - B-642	3 08-06-18 08-08-18			WSP Address Co		- i i i i i					
DGN.FIN.B642.030	Skanska Internal Review - Final Plan - B-642	5 08-09-18 08-15-18			Skanska Interna							
DGN.FIN.B642.035	Submit to VDOT - Final Plan - B-642	0 08-15-18		*	Submit to VDOT				++-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-++-++-+++-+++-++++			4
DGN.FIN.B642.040	VDOT Review/Comment - Final Plan - B-642	21 08-16-18 09-05-18			VDOT Review							
DGN.FIN.B642.045	WSP Address Comm/Pkg Sign & Seal - AFC Plan - B-642	10 09-06-18 09-19-18					n & Seal - AFC Plar	- B-642				
DGN.FIN.B642.050	Skanska Internal Review - AFC Plan - B-642	5 09-20-18 09-26-18				ernal Review - AF		D 0-4				
DGN.FIN.B642.055	Submit to VDOT - AFC Plan - B-642	0 09-26-18				OT - AFC Plan +						
DGN.FIN.B642.060	VDOT Issue AFC Plans - B-642	21 09-27-18 10-17-18			والمسترك بالترار بالتراج بالتراج بالتراج	ue AFC Plans - E	والمرابقة والمراجع والمراجع والمراجع					
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I-64 WBL Over Queens								τ ω)				
_Preliminary Plan (Sta		103 12-07-17 03-19-18			8, Preliminary Plan (Stage	⁰						
DGN.PRE.B643.005	Prepare Preliminary Plan - B-643	30 12-07-17 01-23-18			nihary Plan - B-643							
DGN.PRE.B643.010	IDC Preliminary Plan - B-643	0 01-23-18		◆ IDC Preliminar					· · · · · · · · · · · · · · · · · · ·		L	
DGN.PRE.B643.015	WSP Incorporate IDC Comments - Preliminary Plan - B-643	10 01-24-18 02-06-18			prate IDC Comments - Pr		-643					
DGN.PRE.B643.020	WSP Pencils Down - Preliminary Plan - B-643	0 02-06-18			Down - Preliminary Plan							
DGN.PRE.B643.025	WSP Internal Review/QC - Preliminary Plan - B-643	5 02-07-18 02-13-18		W\$P Interna	al Review/QC - Preliminal	y Plan - B-643						
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ivity ID	Activity Name	Original Start Duration	Finish	2018 2019 2020 Qtr 4 Qtr 1 Qtr 2 Qtr 3 Qtr 4 Qtr 2 Qtr 3 Qtr 2 Qtr 3 Qtr 2 Qtr 3 Qtr 4 Qtr 4 Qtr 2 Qtr 3 Qtr 4 Qtr 4<	
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SV.DGN.NADR.045	NADR - Recieve Comments from the Public	30 04-27-18		NADR - Recieve Comments from the Public	
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SV.DGN.NADR.075	NADR - Develop Summary of Comments and Recommendations	5 07-25-18	07-31-18	NADR - Develop Summary of Comments and Recommendations	
SV.DGN.NADR.080	NADR - Submit Final NADR and Noise Barrier Locations to VDOT	0	07-31-18	NADR - Submit Final NADR and Noise Barrier Locations to VDOT	
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CP.DGN.COORD.CG.005	Submit AFC Plans to Camp Peary - Clearing & Grubbing	0	08-02-18	 Submit AFC Plans to Camp Peary - Clearing & Grubbing 	
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CP.DGN.COORD.TC.005	Submit AFC Plans to Camp Peary - Traffic Control	0	08-17-18	♦ Submit AFC Plans to Camp Peary - Traffic Control	
CP.DGN.COORD.TC.010	Camp Peary Review of AFC Plans - Traffic Control	45 08-18-18		Camp Pearly Review of AFC Plans - Traffic Control	
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tivity ID	Activity Name	Original Start Duration	Finish	Qtr 4	Qtr 1 Qtr 2		4 Qtr 1		Qtr 3	Qtr 4	Qtr 1 Q	2020 (tr 2 Q	tr 3	Qtr 4	Qtr 1	Qtr 2	Qtr
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CP.DGN.COORD.CG.015	Camp Peary Approve AFC Plans - Clearing & Grubbing	0	09-17-18				Peary Appro	i i i	i i i	· · · · ·	oing						
CP.DGN.COORD.FR.005	Submit AFC Plans to Camp Peary - Final Roadway	0	09-19-18				it AFC Plans										
CP.DGN.COORD.FR.010	Camp Peary Review of AFC Plans - Final Roadway	45 09-20-18					Camp Peary		. <u>.</u>		dway	· + + +					
CP.DGN.COORD.TC.015	Camp Peary Approve AFC Plans - Traffic Control	0	10-01-18				p Peary App		1 1 1								
CP.DGN.COORD.GD.005	Submit AFC Plans to Camp Peary - Grading & Drainage	0	10-02-18				nit AFC Plan				-						
CP.DGN.COORD.GD.010	Camp Peary Review of AFC Plans - Grading & Drainage	45 10-03-18	11-16-18				Camp Pear	ст. н.	1 1 1								
CP.DGN.COORD.FR.015	Camp Peary Approve AFC Plans - Final Roadway	0	11-05-18			• (Camp Peary	Approve A	FC Plans -	Final Roadv	way						
CP.DGN.COORD.GD.015	Camp Peary Approve AFC Plans - Grading & Drainage	0	11-16-18				Camp Pear	y Approve	AFC Plans	- Grading &	Drainage						J. J.
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ENV.PRE.APP.MTG.010	Hold Pre-Application Meeting with Permitting Agencies	5 05-11-18	05-17-18			Iold Pre-Application											
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PERM.VSMP.PREP	Prepare VSMP (VA Stormwater Management Program) Documentation	52 03-16-18				Prepare VSMP (VA			1 M								
PERM.SWPPP.PREP	Prepare SWPPP (Stormwater Pollution Prevention Program)	52 03-16-18							1. 1. 1.		manon						
-		0				Prepare SWPPP (Submit VSMP & SV			1 1 1	rogram)							
PERM.SWPPP.SUBM	Submit VSMP & SWPPP to VDEQ for Review		05-29-18						1. 1. 1.								
PERM.SWPPP.VDEQ.REV	VDEQ Review and approve VSMP & SWPPP	21 05-30-18				VDEQ Review a			WPPP								
PERM.VPDES.PREP	Prepare VPDES Permit Application	10 06-20-18		····		Prepare VPDE	, in the second s		ļ			·					;
PERM.VPDES.DB.REV	Review VPDES Permit Application for Completeness	3 07-05-18				Review VPDE			1 111	ness							
PERM.VPDES.SUBM.VDOT		0	07-09-18			VPDES Permi			1 1 1								
PERM.VPDES.VDOT.REV	VDOT Review VPDES Permit Application	30 07-10-18				🔲 VDOT Rev			i i i .								
PERM.VPDES.VDOT.APPR		0	08-08-18			VDOT App		- i i i									
PERM.VPDES.SUBM.VDEQ	VPDES Permit Application Submittal to VDEQ	0	08-08-18			VPDES Pe				9 9 9 9 9							
PERM.VPDES.VDEQ.REV	VDEQ Review VPDES Permit Application	60 08-09-18	10-07-18				Q Review V	- i - i - i									
PERM.VPDES.VDEQ.APPR	VDEQ Approval of VPDES Permit Application	0	10-09-18				EQ Approval										
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PERM.401.PREP	Prepare Section 401 Permit Application	52 03-16-18	05-29-18			Prepare Section 40	01 Permit Ap	plication									
PERM.401.DB.REV	Review Section 401 Permit Application for Completeness	3 05-30-18	06-01-18		• • •	Review Section 40)1 Permit Ap	plication for	r Complete	ness							
PERM.401.SUBM.VDEQ	Section 401 Permit Application Submittal to VDEQ (JPA Submittal)	0	06-01-18		•	Section 401 Permi	it Application	Submittal t	o VDEQ (.	IPA Submitta	al)						
PERM.401.VDEQ.REV	VDEQ Review Section 401 Permit Application	120 06-02-18	09-29-18				Q Review Se	ection 401	Permit App	lication							
PERM.401.VDEQ.APPR	VDEQ Approval of Section 401 Permit Application	0	10-01-18				Q Approval (of Section 4	401 Permit	Application							
PERM.401.VDEQ.QC.PR	VDEQ Final Plans Review - Wetland Areas Only	30 10-01-18	10-30-18				DEQ Final P	Plans Revie	w - Wetlar	d Areas Onl	ly						
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PERM.CZM.PREP	Prepare CZM Consistency Documentation	52 03-16-18	05-29-18			Prepare CZM Con	sistency Do	cumentatio	n	L	- 4 411-						
PERM.CZM.DB.REV	Review CZM Consistency Documentation for Completeness	3 05-30-18	06-01-18			Review CZM Con				leteness							
PERM.CZM.SUBM.VDEQ	CZM Consistency Documentation Submittal to VDEQ (JPA Submittal)	0	06-01-18			CZM Consistency					mittal)						
PERM.CZM.VDEQ.REV	VDEQ Review of CZM Consistency Documentation	60 06-02-18				VDEQ Revi		- i - i - i	i i i								
PERM.CZM.VDEQ.APPR	VDEQ Approval of CZM Consistency Documentation	0	07-31-18			VDEQ Appr											
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PERM.404.PREP								1 1 1	içi quanty)								
-	Prepare Section 404 Permit Application	52 03-16-18				Prepare Section 40											
PERM.404.DB.REV	Review Section 404 Permit Application for Completeness	3 05-30-18				Review Section 40		10 D D									
PERM.404.SUBM.ACE	Section 404 Permit Application Submittal to USACE (JPA Submittal)	0	06-01-18		•	Section 404 Permi	+		+		tal)						
PERM.404.ACE.REV	USACE Review Section 404 Permit Application	120 06-02-18	09-29-18			USA	CE Review S	Section 404	1 Permit Ap	plication							
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ity ID	Activity Name	Original Start Duration	Finish	Qtr 4 Qtr 1		2018 Qtr 3	Qtr 4	Qtr 1	Qtr 2	2019 Qtr 3	Qtr	4 Qtr
		Duration		ONDJF		JAS	OND	JFM	AM	JJAS	SON	V D J F
PERM.404.ACE.APPR	USACE Approval of Section 404 Permit Application	0	10-01-18			1 1 1			1 I I I	n 404 Perr	- 1 C	ication
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PERM.4F.PREP	Prepare Section 4f Consistency Documentation	52 03-16-18	05-29-18			Prepare Se	ction 4f Co	nsistency	Docume	entation		
PERM.4F.DB.REV	Review Section 4f Consistency Documentation for Completeness	3 05-30-18	06-01-18		Ó	Review Sec	tion 4f Co	nsistency	Docume	entation for	Comple	eteness
PERM.4F.SUBM.SHPO	Section 4f Consistency Documentation Submittal to SHPO (JPA Submitta	0	06-01-18		•	Section 4f (Consisten	y Docum	entation	Submittal to	o SHPO) (JPA Sub
PERM.4F.SHPO.REV	SHPO Review Section 4f Consistency Documentation	60 06-02-18	07-31-18			SHP	O Review	Section 4	f Consist	tency Doci	umentat	ion
PERM.4F.SHPO.APPR	SHPO Approval of Section 4f Consistency Documentation	0	07-31-18			♦ SHP	O Approva	l of Section	on 4f Cor	nsistency D	Docume	ntation
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PERM.SUPT.PREP	Prepare Special Use Permit (SUP) for Tree Removal	10 05-16-18	05-30-18			Prepare Sp	ecial Use	Permit (S	P) for T	ree Remov	val	
PERM.SUPT.DB.REV	Review SUP for Tree Removal for Completeness	3 05-31-18	06-04-18			Review SU	P for Tree	Removal	for Com	pleteness		
PERM.SUPT.NPS.REV	SUP for Tree Removal Submittal to NPS	0	07-12-18			SUP fo	r Tree Re	moval Sul	mittal to	NPS		
PERM.SUPT.SUBM.NPS	NPS Review of SUP for Tree Removal	60 07-13-18	09-10-18			i i i	NPS Revi	i i i	i i i	i i i		
PERM.SUPT.NPS.APPR	NPS Approval of SUP for Tree Removal	0	09-10-18	• • • • • • • • • • • • • • • • • • • •		•	NPS Appr	val of SL	IP for Tre	eRemova		
Special Use Permit (Lan		80 05-16-18	08-03-18			1 1 1			1 I I	and Disturb	1 1	
PERM.SUPL.PREP	Prepare Special Use Permit (SUP) for Land Disturbance	10 05-16-18				Prepare Sp					l l'	
PERM.SUPL.DB.REV	Review SUP for Land Disturbance for Completeness	3 05-31-18				Review SU						
PERM.SUPL.SUBM.NPS	SUP for Land Disturbance Submittal to NPS	0	06-04-18			SUP for La						
PERM.SUPL.NPS.REV	NPS Review of SUP for Land Disturbance	60 06-05-18		· <mark>·</mark>			Review o	++	4	+		$-\frac{1}{1}-\frac{1}{1}-\frac{1}{1}-\frac{1}{1}-\frac{1}{1}$
PERM.SUPL.NPS.APPR	NPS Approval of SUP for Land Disturbance	0	08-03-18							isturbance		
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		138 03-16-18							1 1 1	Anadromo	avie Eick	
Endangered Species & A					•				1 1 1		- i - i -	
PERM.ESAF.PREP	Prepare Documentation of Endangered Species & Anadromous Fishes	52 03-16-18				Prepare Do						·
PERM.ESAF.DB.REV	Review Documentation of Endangered Species & Anadromous Fishes for	3 05-30-18				Review Do						
	Documentation of Endangered Species & Anadromous Fishes Submittal t	0	06-01-18				i i i	i ī i	i i i	i i i	- i - i -	i i i
PERM.ESAF.USFWS.REV	USFWS Review of Documentation of Endangered Species & Anadromou	60 06-02-18							1 1 1		7	Species & /
PERM.ESAF.USFWS.APPR	USFWS Approval of Documentation of Endangered Species & Anadromo	0	07-31-18				1 I Î Î		1 1 1	1 I I	1 1	l Species 8
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PERM.SAP.PREP	Prepare Sub-Aqueous Permit	52 03-16-18				Prepare Su	b-Aqueou	Permit				
PERM.SAP.DB.REV	Review Sub-Aqueous Permit for Completeness	3 05-30-18	06-01-18		Ó	Review Sul	-Aqueous	Permit fo	or Comple	eteness		
PERM.SAP.SUBM.VMRC	Sub-Aqueous Permit Submittal to VMRC (JPA Submittal)	0	06-01-18		•	Sub-Aqueo	us Permit	Submittal	to VMRC	C (JPA Sub	mittal)	
PERM.SAP.VMRC.REV	VMRC Review of Sub-Aqueous Permit	90 06-02-18	08-30-18			V	MRC Rev	lew of Sul	o-Aqueou	us Permit		
PERM.SAP.VMRC.APPR	VMRC Approval of Sub-Aqueous Permit	0	08-30-18			• V	MRC App	oval of S	b-Aqueo	ous Permit		
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PERM.NEPA.PREP	Prepare Documentation for Final NEPA Re-Evaluation Completion	10 08-01-18	08-14-18			🔲 Pre	pare Doc	mentatio	n for Fina		e-Èvalua	ation Comp
PERM.NEPA.PREP10	Review Final NEPA Re-Evaluation Documentation for Completeness	3 08-15-18	08-17-18			l Re	view Fina	NEPA Re	Evaluat	ion Docum	entatior	n for Comp
PERM.NEPA.PREP20	Final NEPA Re-Evaluation Documentation Submittal to VDOT	0	08-17-18			♦ Fir	al NEPA F	e-Evalua	tion Docu	umentation	Şubmit	tal to VDO
PERM.NEPA.PREP30	VDOT Review Final NEPA Re-Evaluation Documentation	21 08-18-18	09-07-18			- I - I - I	н н н — — — — — — — — — — — — — — — — —		1 I I	- I - I - I -	1 I I	imentation
PERM.NEPA.PREP40	VDOT Submit Final NEPA Re-Evaluation Documentation to FHWA	0	09-07-18			•	DOT Sut	mit Final	NEPA Re	-Evaluatio	n Docur	mentation to
PERM.NEPA.PREP50	FHWA Review Final NEPA Re-Evaluation Documentation	30 09-08-18	10-07-18				FHWA	Review F	inal NEP/	A Re-Evalu	ation D	ocumentati
PERM.NEPA.PREP60	FHWAApproval of Final NEPA Re-Evaluation Documentation (No Addition	0	10-09-18				♦ FHWA	Approval	of Final N	NEPA Re+E	valuatio	on Docume
Remaining Level of Effort	Critical Remaining Work	State Project No.:	0064-965-	229, P-101, R-20 ⁻	1, C-501, B	-638, B-639	9, B-640,					
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vity ID	Activity Name	Original Duration		Finish	0	r 4	2018 2019 Qtr 1 Qtr 2 Qtr 3 Qtr 4 Qtr 1 Qtr 2 Qtr 4 Qtr 1
							DJJFMAMJJJASONDJFMAMJJJASONDJFM
Right-of-Way		252	04-18-18	12-26-18			▼ 12-26-18, Right-of-Way
ROW Acquisition Prepa	rations	66	04-18-18	06-22-18			♥━━━♥ 06-22-18, ROW Acquisition Preparations
ROW.ACQ.PLAN.PREP	Prepare ROW Acquisition Plan	20	04-18-18	05-15-18			Prepare ROW Acquisition Plan
ROW.ACQ.PLAN.SUBM	Submit ROW Acquisition Plan to VDOT	0	1	05-15-18			◆ Submit ROW Acquisition Plan to VDOT
ROW.ACQ.PLAN.REV	VDOT Review of ROW Acquisition Plan	21	05-16-18	06-05-18			DOT Review of ROW Acquisition Plan
ROW.NOT.LET.PREP	Prepare Notice Letters to Parcel Owners	5	05-16-18	05-22-18	11		Prepare Notice Letters to Parcel Owners
ROW.ACQ.PLAN.APPR	VDOT Approval of ROW Acquisition Plan	0	1	06-05-18			VDOT Approval of ROW Acquisition Plan
ROW.NOT.LET.SUBM	Submit Copies of Notice Letters to Parcel Owners to VDOT	0	1	06-05-18			Submit Copies of Notice Letters to Parcel Owners to VDOT
ROW.NOT.LET.MAIL	Mail Notice Letters to Parcel Owners	2	06-06-18	06-07-18			Mail Notice Letters to Parcel Owners
ROW.NOT.LET.WAIT	15 Day Waiting Period (Prior to Parcel Appraisal)	15	06-08-18	06-22-18			15 Day Waiting Period (Prior to Parcel Appraisal)
Property ID 001 (Partial	Take)	140	08-01-18	12-18-18	1.1		▼ 12-18-18, Property ID 001 (Partial Take)
ROW.001.PART.005	Perform Property Appraisal - Parcel 001 (Partial Take)	3	08-01-18	08-03-18		i.	I Perform Property Appraisal - Parcel 001 (Partial Take)
ROW.001.PART.010	Perform Appraisal Review - Parcel 001 (Partial Take)			08-24-18			Perform Appraisal Review - Parcel 001 (Partial Take)
ROW.001.PART.015	Submit Appraisal to VDOT for Review - Parcel 001 (Partial Take)	0		08-24-18		Ì	Submit Appraisal to VDOT for Review - Parcel 001 (Partial Tal)
ROW.001.PART.020	VDOT Review Property Appraisal - Parcel 001 (Partial Take)	21	08-25-18	09-14-18			VDOT Review Property Appraisal - Parcel 001 (Partial Take
ROW.001.PART.025	Conduct Negotiations with Property Owner - Parcel 001 (Partial Tak e)			10-14-18			Conduct Negotiations with Property Owner + Parcel 001
ROW.001.PART.030	Property Owner Accept Offer - Parcel 001 (Partial Take)	0		10-15-18	-		
ROW.001.PART.035	Submit Settlement to VDOT for Review - Parcel 001 (Partial Take)	0		10-15-18			♦ Submit Settlement to VDOT for Review - Parcel 001 (Pa
ROW.001.PART.040	VDOT Review Settlement - Parcel 001 (Partial Take)	-		11-04-18		į.	VDOT Review Settlement - Parcel 001 (Partial Take)
ROW.001.PART.045	Close on Parcel - Parcel 001 (Partial Take)		11-05-18				Close on Parcel - Parcel 001 (Partial Take)
ROW.001.PART.050	Submit Request to Commence Work to VDOT - Parcel 001 (Partial Tak	0		11-27-18			Submit Request to Commence Work to VDQT - F
ROW.001.PART.055	VDOT Review & Approve Request to Commence Work - Parcel 001 (Par	21	11-28-18	12-18-18		÷	VDOT Review & Approve Request to Commence
ROW.001.PART.060	Begin Work on Parcel - Parcel 001 (Partial Take)	0		12-18-18			◆ Begin Work on Parcel - Parcel 001 (Partial Take)
Property ID 010 (Partial		130	06-29-18				▼ 11-05-18, Property ID 010 (Partial Take)
ROW.010.PART.005	Perform Property Appraisal - Parcel 010 (Partial Take)			07-05-18			Perform Property Appraisal - Parcel 010 (Partial Take)
ROW.010.PART.010	Perform Appraisal Review - Parcel 010 (Partial Take)			07-13-18	+		Perform Appraisal Review - Parcel 010 (Partial Take)
ROW.010.PART.015	Submit Appraisal to VDOT for Review - Parcel 010 (Partial Take)	0		07-13-18			 Submit Appraisal to VDOT for Review - Parcel 010 (Partial Take)
ROW.010.PART.020	VDOT Review Property Appraisal - Parcel 010 (Partial Take)	-		08-03-18			 VDOT Review Property Appraisal – Parcel 010 (Partial Take)
ROW.010.PART.025	Conduct Negotiations with Property Owner - Parcel 010 (Partial Take)			09-02-18			Conduct Negotiations with Property Owner - Parcel 010 (Parl
ROW.010.PART.030	Property Owner Accept Offer - Parcel 010 (Partial Take)	0		09-04-18			 Property Owner Accept Offer - Parcel 010 (Partial Take)
ROW.010.PART.035	Submit Settlement to VDOT for Review - Parcel 010 (Partial Take)	0		09-04-18	+		 Submit Settlement to VDOT for Review - Parcel 010 (Partial
ROW.010.PART.040	VDOT Review Settlement - Parcel 010 (Partial Take)	21	09-04-18	09-24-18	-		 VDOT Review Settlement - Parcel 010 (Partial Take)
ROW.010.PART.045	Close on Parcel - Parcel 010 (Partial Take)			10-15-18			Close on Parcel - Parcel 010 (Partial Take)
ROW.010.PART.050	Submit Request to Commence Work to VDOT - Parcel 010 (Partial Tak	0		10-15-18			♦ Submit Request to Committence Work to VDOT - Parce
ROW.010.PART.055	VDOT Review & Approve Request to Commence Work - Parcel 010 (Par	-		11-05-18			VDOT Review & Approve Request to Commence Wo
ROW.010.PART.060	Begin Work on Parcel - Parcel 010 (Partial Take)	0		11-05-18	+		 Begin Work oh Parcel - Parcel 010 (Partial Take)
Property ID 014 (Total Ta			07-17-18			÷	▼ 226-18, Property ID 014 (Tptal Take)
ROW.014.TOTAL.005	Perform Property Appraisal - Parcel 014 (Total Take)			07-19-18			Perform Property Appraisal - Parcel 014 (Total Take)
ROW.014.TOTAL.005	Perform Appraisal Review - Parcel 014 (Total Take)			08-03-18		-	 Perform Appraisal Review - Parcel 014 (Total Take)
ROW.014.TOTAL.010	Submit Appraisal to VDOT for Review - Parcel 014 (Total Take)	0		08-03-18			 Submit Appraisal to VDOT for Review - Parcel 014 (Total Take)
ROW.014.TOTAL.013	VDOT Review Property Appraisal - Parcel 014 (Total Take)			08-24-18	+		 VDOT Review Property Appraisal - Parcel 014 (Total Take)
ROW.014.TOTAL.025	Conduct Negotiations with Property Owner - Parcel 014 (Total Take)			09-23-18			Conduct Negotiations with Property Owner - Parcel 014 (T
ROW.014.TOTAL.020	Property Owner Accept Offer - Parcel 014 (Total Take)	0		09-24-18			Property Owner Accept Offer, - Parcel 014 (Total Take)
ROW.014.TOTAL.035	Submit Settlement to VDOT for Review - Parcel 014 (Total Take)	0		09-24-18			 Submit Settlement to VDOT for Review - Parcel 014 (Total
ROW.014.TOTAL.040	VDOT Review Settlement - Parcel 014 (Total Take)			10-14-18			VDOT Review Settlement + Parcel 014 (Total Take)
							<u></u>
Remaining Level of Effo	, i i i i i i i i i i i i i i i i i i i	State F					01, R-201, C-501, B-638, B-639, B-640,
Actual Work	♦ ♦ Milestone						3, D-609, D-610, D-611
Remaining Work	V Summary			reuerai F	ruje	ι ΙΝΟ.	D.: NHPP-064-3 (498)

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tivity ID	Activity Name	Origina Duration	Start	Finish	Qtr 4		Qtr 2			Qtr 2		Qtr 4 Qtr
ROW.014.TOTAL.045	Close on Parcel - Parcel 014 (Total Take)	15	10-15-18	11 02 19	OND	JFM	AMJ				JASO 014 (Total Ta	
ROW.014.TOTAL.043	Submit Request to Commence Work to VDOT - Parcel 014 (Total Take)			11-02-18						1. 1. 1.	mmence Wor	
ROW.014.TOTAL.050	VDOT Review & Approve Request to Commence Work - Parcel 014 (Total Take		11-03-18							1 1 1		
		21								1 1 11	ove Request el - Parcel 014	
ROW.014.TOTAL.060	Begin Work on Parcel - Parcel 014 (Total Take)	-	07-12-18	11-26-18						1 1 1	1 I I I I I	TELLER TELLE
Property ID 015 (Partia											015 (Partial Ta	
ROW.015.PART.005	Perform Property Appraisal - Parcel 015 (Partial Take)		07-12-18					Perform Prop		1 1 1	1 1 1	
ROW.015.PART.010	Perform Appraisal Review - Parcel 015 (Partial Take)		07-23-18					Perform Ap				
ROW.015.PART.015	Submit Appraisal to VDOT for Review - Parcel 015 (Partial Take)	C		07-27-18				 Submit App 				
ROW.015.PART.020	VDOT Review Property Appraisal - Parcel 015 (Partial Take)		07-28-18							1 1 1	al - Parcel 015	1 I I I I I
ROW.015.PART.025	Conduct Negotiations with Property Owner - Parcel 015 (Partial Tak e)		08-18-18							44	operty Owner	4 4 4 4
ROW.015.PART.030	Property Owner Accept Offer - Parcel 015 (Partial Take)	C		09-17-18						1 1 1	- Parcel 015	
ROW.015.PART.035	Submit Settlement to VDOT for Review - Parcel 015 (Partial Take)	C		09-17-18				◆ Subm	t Settlement	to VDOT f	or Review + P	arcel 015 (Par
ROW.015.PART.040	VDOT Review Settlement - Parcel 015 (Partial Take)	21	09-17-18	10-07-18				D VD	DT Review S	ettlement	- Parcel 015 (I	Partial Take)
ROW.015.PART.045	Close on Parcel - Parcel 015 (Partial Take)	15	10-08-18	10-26-18					lose on Parc	el - Parcel	015 (Partial T	ake)
ROW.015.PART.050	Submit Request to Commmence Work to VDOT - Parcel 015 (Partial Tak	C		10-26-18				♦ S	ubmit Reque	st to Com	nmence Work	to VDOT - P
ROW.015.PART.055	VDOT Review & Approve Request to Commence Work - Parcel 015 (Par	21	10-27-18	11-16-18					VDOT Revi	w & Appr	ove Request t	o Commence
ROW.015.PART.060	Begin Work on Parcel - Parcel 015 (Partial Take)	C		11-16-18				•	Begin Work	on Parcel	+ Parcel 015 (Partial Take)
Property ID 016 (Partia	I Take)	142	08-06-18	12-26-18					12-26-1	8, Propert	y ID 016 (Part	ial Take)
ROW.016.PART.005	Perform Property Appraisal - Parcel 016 (Partial Take)	3	08-06-18	08-08-18				I Perform P	operty Appra	isal - Paro	el 016 (Partia	l Take)
ROW.016.PART.010	Perform Appraisal Review - Parcel 016 (Partial Take)	5	08-27-18	08-31-18				l Perform	Appraisal R	view - Pa	rcel 016 (Part	al Take)
ROW.016.PART.015	Submit Appraisal to VDOT for Review - Parcel 016 (Partial Take)	C		08-31-18			444			4	Review - Parc	4464
ROW.016.PART.020	VDOT Review Property Appraisal - Parcel 016 (Partial Take)	21	09-01-18	09-21-18						1 1 1	raisal - Parcel	1 I I I I
ROW.016.PART.025	Conduct Negotiations with Property Owner - Parcel 016 (Partial Tak e)	30	09-22-18	10-21-18						1 1 1	h Property Ov	
ROW.016.PART.030	Property Owner Accept Offer - Parcel 016 (Partial Take)	0		10-22-18						1 1 1	Offer - Parcel (1 1 1 1
ROW.016.PART.035	Submit Settlement to VDOT for Review - Parcel 016 (Partial Take)	0		10-22-18						1 1 1	OT for Review	
ROW.016.PART.040	VDOT Review Settlement - Parcel 016 (Partial Take)		10-22-18							4	ent - Parcel 0	4 4 4 4
ROW.016.PART.045	Close on Parcel - Parcel 016 (Partial Take)		11-12-18							1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	arcel 016 (Par	1 I I I
ROW.016.PART.050	Submit Request to Commence Work to VDOT - Parcel 016 (Partial Tak			12-04-18						1 1 1	commmence V	
ROW.016.PART.055	VDOT Review & Approve Request to Commence Work - Parcel 016 (Part		12-05-18							i i i	Approve Requ	
ROW.016.PART.060	Begin Work on Parcel - Parcel 016 (Partial Take)	21		12-26-18						1 1 1	arcel - Parcel (
Property ID 018 (Partia		-	07-20-18						<u> </u> <u>+</u> +	4	018 (Partial	4 4
ROW.018.PART.005	Perform Property Appraisal - Parcel 018 (Partial Take)		07-20-18					Perform Pro		i i i .		
ROW.018.PART.010	Perform Appraisal Review - Parcel 018 (Partial Take)		08-06-18							1 1 1	el 018 (Partial	
ROW.018.PART.015	Submit Appraisal to VDOT for Review - Parcel 018 (Partial Take)	0		08-10-18						i i i	view - Parcel	1 1 1 I
ROW.018.PART.020	VDOT Review Property Appraisal - Parcel 018 (Partial Take)		08-11-18								sal - Parcel 01	
ROW.018.PART.025	Conduct Negotiations with Property Owner - Parcel 018 (Partial Tak e)		09-01-18							1 1 1	Property Owne	1 I I I I
ROW.018.PART.030	Property Owner Accept Offer - Parcel 018 (Partial Take)	0		10-01-18						i i i	er - Parcel 01	
ROW.018.PART.035	Submit Settlement to VDOT for Review - Parcel 018 (Partial Take)	0		10-01-18						1 1 1	for Review -	
ROW.018.PART.040	VDOT Review Settlement - Parcel 018 (Partial Take)		10-01-18								t - Parcel 018	
ROW.018.PART.045	Close on Parcel - Parcel 018 (Partial Take)		10-22-18								el 018 (Partial	
ROW.018.PART.050	Submit Request to Commence Work to VDOT - Parcel 018 (Partial Tak			11-09-18				•		1 1 1	nmence Wo	1 1 1 1
ROW.018.PART.055	VDOT Review & Approve Request to Commence Work - Parcel 018 (Par	21	11-10-18	11-30-18					VDOT Rev	view & App	prove Request	to Commenc
ROW.018.PART.060	Begin Work on Parcel - Parcel 018 (Partial Take)	C		11-30-18					Begin Wor	k on Parc	el - Parcel 018	(Partial Take
Property ID 019 (Partia	l Take)	127	07-06-18	11-09-18					11-09-18, Pr	operty ID (019 (Partial Ta	ke)
ROW.019.PART.005	Perform Property Appraisal - Parcel 019 (Partial Take)	4	07-06-18	07-11-18				Perform Prop	erty Appraisa	I - Parcel	019 (Partial Ta	ke)
Remaining Level of Eff	ort Critical Remaining Work	State I	Project No.:	0064-965-	229, P-1)1, R-201,	C-501, B	-638, B-639, B-64	0,			
Actual Work	♦ ♦ Milestone		E	3-641, B-64	2, B-643	, D-609, D	-610, D-6	11				
Remaining Work	Summary				-	.: NHPP-0		•				
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tivity ID	Activity Name	Original Start Duration	Finish	1	Qtr 4	Qtı	1 1 0	201 tr 2	8 Qtr 3	Ot	r 4	Qtr 1		201 Qtr 2	19 Qtr 3	Qtr 4	4 Qtr 1
		Duration		ŀ													
ROW.019.PART.010	Perform Appraisal Review - Parcel 019 (Partial Take)	5 07-1	6-18 07-20	-18					Perf	orm Ap	prais	al Revie	ew - P	arcel 01	19 (Parti	ial Take)	
ROW.019.PART.015	Submit Appraisal to VDOT for Review - Parcel 019 (Partial Take)	0	07-20	-18					Sub	mit App	raisal	to VDC	DT for	Review	v - Parce	el 019 (P	artial Take)
ROW.019.PART.020	VDOT Review Property Appraisal - Parcel 019 (Partial Take)	21 07-2	I-18 08-10	-18					🗖 v	DOTR	eview	Prope	rty App	oraisal -	Parcel	019 (Par	tial Take)
ROW.019.PART.025	Conduct Negotiations with Property Owner - Parcel 019 (Partial Take)	30 08-1	-18 09-09	-18						Cond	uct N	egotiati	ons w	ith Prop	erty Ow	ner - Par	rce 019 (P
ROW.019.PART.030	Property Owner Accept Offer - Parcel 019 (Partial Take)	0	09-10	-18						Prope	erty O	wner A	ccept	Offer -	Parcel (019 (Part	lial Take)
ROW.019.PART.035	Submit Settlement to VDOT for Review - Parcel 019 (Partial Take)	0	09-10	-18						Subm	nit Set	tlement	to VD	OT for	Review	- Parcel	019 (Partia
ROW.019.PART.040	VDOT Review Settlement - Parcel 019 (Partial Take)	21 09-1)-18 09-30	-18					1	📕 VD	OT R	eview	Settlen	nent - P	arcel 01	19 (Partia	il Take)
ROW.019.PART.045	Close on Parcel - Parcel 019 (Partial Take)	15 10-0	I-18 10-19	-18							Close	onParo	cel - P	arcel 01	19 (Part	ial Take)	
ROW.019.PART.050	Submit Request to Commmence Work to VDOT - Parcel 019 (Partial	Tak 0	10-19	-18						♦ S	Submit	Reque	est to	Commin	nence V	Vork to V	DOT - Par
ROW.019.PART.055	VDOT Review & Approve Request to Commence Work - Parcel 019 (Pai 21 10-2	0-18 11-09	-18							VDC	T Rev	iew &	Approve	e Reque	est to Cor	mmence W
ROW.019.PART.060	Begin Work on Parcel - Parcel 019 (Partial Take)	0	11-09	-18			·+	·	·							19 (Partia	(;;;-
Property ID 020 (Partial		138 07-2	5-18 12-10	-18					-		1 1					artial Tak	н н й н
ROW.020.PART.005	Perform Property Appraisal - Parcel 020 (Partial Take)	4 07-2	6-18 07-31	-18					l Pe	rform P	1 1					artial Take	
ROW.020.PART.010	Perform Appraisal Review - Parcel 020 (Partial Take)		3-18 08-17							- 1 - 1 -						artial Tak	
ROW.020.PART.015	Submit Appraisal to VDOT for Review - Parcel 020 (Partial Take)	0	08-17						1 1	1 1		1 I I		1 1	1 1	1 1 1) (Partial Ta
ROW.020.PART.013		-	3-18 09-07							+	1-	++		+-			
	VDOT Review Property Appraisal - Parcel 020 (Partial Take)									1 1							Partial Take
ROW.020.PART.025	Conduct Negotiations with Property Owner - Parcel 020 (Partial Take)		3-18 10-07												- 1 F		Parcel 020
ROW.020.PART.030	Property Owner Accept Offer - Parcel 020 (Partial Take)	0	10-08								1 1		- 1 - 1				Partial Take
ROW.020.PART.035	Submit Settlement to VDOT for Review - Parcel 020 (Partial Take)	0	10-09							1 1	1 1	1 1	1 1		1 1		cel 020 (Pa
ROW.020.PART.040	VDOT Review Settlement - Parcel 020 (Partial Take)		9-18 10-29														artial Take)
ROW.020.PART.045	Close on Parcel - Parcel 020 (Partial Take)		0-18 11-19							1 1		1 1				Partial Tal	
ROW.020.PART.050	Submit Request to Commence Work to VDOT - Parcel 020 (Partial		11-19							i i	-i i	i i	- i - i	i i	i i	- i - i - i	to VDOT - I
ROW.020.PART.055	VDOT Review & Approve Request to Commence Work - Parcel 020 (-18 12-10								- i - i						Commence
ROW.020.PART.060	Begin Work on Parcel - Parcel 020 (Partial Take)	0	12-10								1.1				1 1	- 1 - 1 - 1	Partial Take)
Property ID 021 (Partial	Take)	124 06-2	5-18 10-26	-18		J. L					10-26	-18, Pr	operty	ID 021	(Partial	Take)	
ROW.021.PART.005	Perform Property Appraisal - Parcel 021 (Partial Take)	4 06-2	5-18 06-28	-18				0	Perfor	m Prop	erty A	ppraisa	ıl - Pa	cel 021	l (Partia	l Take)	
ROW.021.PART.010	Perform Appraisal Review - Parcel 021 (Partial Take)	5 06-2	9-18 07-06	-18				ļ	Perfo	rm Appı	raisal	Review	/ - Par	cel 021	(Partial	l Take)	
ROW.021.PART.015	Submit Appraisal to VDOT for Review - Parcel 021 (Partial Take)	0	07-06	-18					Subm	it Appra	aisal to		Γ for F	leview -	- Parcel	021 (Par	rtial Take)
ROW.021.PART.020	VDOT Review Property Appraisal - Parcel 021 (Partial Take)	21 07-0	7-18 07-27	-18				1	VD	OT Rev	view F	Propert	y Appr	aisal - F	Parcel 0	21 (Partia	al Take)
ROW.021.PART.025	Conduct Negotiations with Property Owner - Parcel 021 (Partial Take)	30 07-2	3-18 08-26	-18						Conduc	ct Ne	otiation	ns with	n Propei	rtyOwn	er - Parc	el 021 (Par
ROW.021.PART.030	Property Owner Accept Offer - Parcel 021 (Partial Take)	0	08-27	-18					•	Proper	ty Ow	ner Acc	cept C	ffer - Pa	arcel 02	21 (Partia	l Take)
ROW.021.PART.035	Submit Settlement to VDOT for Review - Parcel 021 (Partial Take)	0	08-27	-18						Submit	Settle	ementit	o VDC	T for R	Review -	Parcel 0	21 (Partial
ROW.021.PART.040	VDOT Review Settlement - Parcel 021 (Partial Take)	21 08-2	7-18 09-16	-18					i 🗖		TRe	view Se	ettleme	ent - Pai	rcel 021	(Partial	Take)
ROW.021.PART.045	Close on Parcel - Parcel 021 (Partial Take)	15 09-1	7-18 10-05	-18						📫 Çk	ose or	n Parce	l - Pa	cel 021	I (Partia	I Take)	
ROW.021.PART.050	Submit Request to Commmence Work to VDOT - Parcel 021 (Partial	Tak 0	10-05	-18					i i	- i - i -	ii	- i i	ii	- i i	i i i	i i i	OT - Parce
ROW.021.PART.055	VDOT Review & Approve Request to Commence Work - Parcel 021 (6-18 10-26									· f + ·	!!				mence Wo
ROW.021.PART.060	Begin Work on Parcel - Parcel 021 (Partial Take)	0	10-26	-18						i i	-i i	i i	- i i	- i i	- i i	1 (Partial	i i i i
Utilities			9-18 02-28											8-19, Ut			
SEGIII.UO.PUDC	Utility Owners - Preliminary Utility Design Coordination		9-18 03-13				U Utili				- i i i i	- I I		ordinație			
Dominion Virginia Powe	er		1-18 09-24										ion Vi	rginia Po	ower		, , , , , , , , , , , , , , , , , , ,
Utility Coordination		2 05-0	1-18 05-07	-18				05-07	7-18, UI	tility Co	ordina	ition					
SEGIII.DOMP.UDC	Dominion Power - Utility Design Coordination Meeting	2 05-0	1-18 05-07	-18				Domi	nion Po	wer - L	Jtility E	Design	Coord	lination I	Meeting		
Utility Conflict ID # 804		140 05-0	3-18 09-24	-18						▼ 09-2	24-18	Utility	Conflic	ct ID # 8	304		
DGN.DOM.804.005	Dominion Power - Design Utility Relocation - Utility Conflict ID # 804	20 05-0	3-18 06-05	-18				Þ	ominion	Power	- De	sign Uti	ility Re	location	n - Utility	Conflict	ID # 804
				005	20 5 4		01 0 5			20 5 6	40						
Remaining Level of Effor	ç I	State Project	No.: 0064- B-641,							ა ა , B-ნ	40,						
Actual Work	♦ ♦ Milestone						9, D-610 P-064-3										
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DGN.DOM.804.010	DB Team - Utility Relocation Review - Utility Conflict ID # 804	10 06-06-18					am - Utility					
DGN.DOM.804.015	DB Team - Submit Utility Relocation Design to VDO T - Utility Conflict IE		06-19-18				am - Subm		1 1 1	-		- i - i -
DGN.DOM.804.020	VDOT - Utility Relocation Review - Utility Conflict ID # 804	21 06-20-18					OT - Utility I		1 1 1	1.7.1.1		
DGN.DOM.804.025	VDOT - Approve Utility Relocation - Utility Conflict ID # 804	0	07-10-18			♦ VD	OT - Approv	/e Utility Rel	ocation - l	Jtility Confli	ct ID # 804	4
C2.LHD.RELO.DOM.804	Dominion Power - Relocate Utility - Utility Conflict ID # 804	40 07-12-18					Domih 🔜	ion Power -		1 1 1		
York County Public Work	s Department	350 03-16-18	02-28-19						02-28-19,	York Count	y Public W	/orks De
Utility Coordination		2 03-16-18	03-19-18		V 03-	19-18, Utility	Coordinatic	n				
SEGIII.YCPU.UDC	York County Department of Public Utilities - Utility Design Coordination	IM€ 2 03-16-18	03-19-18		I Yor	k County De	partment of	Public Utiliti	es - Utility	Design Co	ordination	Meeting
Utility Conflict ID # 811		309 03-20-18	01-22-19					01-2	2-19, Utilit	y Conflict II) # 811	
DGN.YCPU.811.005	DB Team - Design Utility Relocation - Utility Conflict ID # 811	20 03-20-18	04-16-18			DB Team - D	esiģn Utility	Rebcation	Ut lity Co	hflict ID # 8	311	
DGN.YCPU.811.010	York Co DPU - Utility Relocation Review - Utility Conflict ID # 811	20 04-17-18	05-14-18			York Co I	DPU - Utility	Relocation	Review - l	Jtility Confli	ct ID # 811	1
DGN.YCPU.811.015	DB Team - Submit Utility Relocation Design to VDO T - Utility Conflict ID	D# 0	05-14-18			♦ DB Team	- Submit Ut	ility Relocati	n Design	to VDO T -	Utility Con	flict ID
DGN.YCPU.811.020	VDOT - Utility Relocation Review - Utility Conflict ID # 811	21 05-15-18	06-04-18			UDOT	Utility Relo	cation Revi	w - Utility	Conflict ID	# 811	
DGN.YCPU.811.025	VDOT - Approve Utility Relocation - Utility Conflict ID # 811	0	06-04-18			vdot	Approve U	tility Reloca	ion - Utility	Conflict IE) # 811	
PROC.YCPU.811.005	DB Team - Procure Materials for Relocation - Utility Conflict ID#811	30 06-05-18	07-17-18				3 Team - Pro	1 I I I	1 1 1	1. 1. 1.		lict ID#
64.C3.RELO.YCPU.811	York Co DPU - Relocate Utility - Utility Conflict ID # 811	20 12-11-18	01-22-19					York	Co DPU	Relocate	Utility - Utili	lity Conf
Utility Conflict ID # 812		346 03-20-18	02-28-19		· · · · · · · · · · · · · · · · · · ·				2-28-19,	Jtility Confl	ict ID # 81	2
DGN.YCPU.812.005	DB Team - Design Utility Reb cation - Utility Conflict ID # 812	20 03-20-18	04-16-18			DB Team - D	esian Utility	Rebcation	- Utility Co	nflict ID # 8	312	
DGN.YCPU.812.010	York Co DPU - Utility Relocation Review - Utility Conflict ID # 812	20 04-17-18				York Co I			1 1 1 1	i i i		2
DGN.YCPU.812.015	DB Team - Submit Utility Relocation Design to VDOT - Utility Conflict IE		05-14-18			♦ DB Team	! ! ! !		1 1 1			1 1 1
DGN.YCPU.812.020	VDOT - Utility Relocation Review - Utility Conflict ID # 812	21 05-15-18					- Utility Relo	- î - i - i -	1 I I	1. 1. 1.		
DGN.YCPU.812.025	VDOT - Approve Utility Relocation - Utility Conflict ID # 812	0	06-04-18				Approve U			+		
PROC.YCPU.812.005	DB Team - Procure Materials for Relocation - Utility Conflict ID # 812	30 06-05-18					3 Team - Pro			1 1 1		lict ID#
64.C3.RELO.YCPU.812	York Co DPU - Relocate Utility - Utility Conflict ID # 812	20 01-24-19								PU - Reloc		
Newport News Water		86 03-16-18				07	-17-18, Nev					
Utility Coordination		86 03-16-18					-17-18, Utili					
									4 4 6			
SEGIII.NNWW.UDC	Newport News Waterworks - Utility Design Coordination Meeting	2 03-16-18			u ne	wport News	1 1 1 1	1 1 1	, , , , , , , , , , , , , , , , , , ,	1 1 1		
SEGIII.NNWW.PUCC	Newport News Water works - Potential Utility Conflict Coordination - U	,				i i i	wport New	- i i i	i i i	i i i		rdinatio
Hampton Roads Sanitati	on District	86 03-16-18				1 1 1	-17-18, Har	11 I I I	1 1 1			
Utility Coordination		86 03-16-18					-17-18, Utili		1 1 1			
SEGIII.HRSD.UDC	Hampton Roads Sanitation District - Utility Design Coordination Meetin	•				mpton Roads	ولاحت الأحتان			4		
SEGIII.HRSD.PUCC	Hampton Roads Sanitation District - Potential Utility Conflict Coordinati					I Ha	mpton Roa	ds Sanitatio	District -	Potential L	tility Confli	ict Coo
Cox Communications		173 05-04-18	10-23-18				V 10	23-18, Cox	Communi	ations		
Utility Coordination		51 05-04-18	07-17-18			• 07	-17-18, Utili	ty Coordinat	ion			
SEGIII.COX.UDC	Cox Communications - Utility Design Coordination Meeting	3 05-04-18	05-08-18			Cox Comr	nunications	- Utility Des	ign Coordi	nation Mee	ting	
SEGIII.COX.PUCC	Cox Comm Potential Utility Conflict Coordination - Utility Conflict ID #	20 2 07-16-18	07-17-18			I Co	x Comm	Potential Uti	ity Conflic	Coordinat	ion - Utility	/ Conflic
Utility Conflict ID # 308		168 05-09-18	10-23-18				V 10	23-18, Utilit	Conflict I	Þ # 308		
DGN.COX.308.005	Cox Comm Design Utility Relocation - Utility Conflict ID # 308	40 05-09-18	07-05-18			Ċo»	Comm D	esign Utility	Relocatio	- Utility C	onflict ID #	# 308
DGN.COX.308.010	DB Team - Utility Relocation Review - Utility Conflict ID # 308	10 07-06-18	07-19-18			DI	3 Team - Ut	ility Relocati	on Review	- Utility Co	nflict I D #	308
DGN.COX.308.015	DB Team - Submit Utility Relocation Design to VDO T - Utility Conflict ID		07-19-18				3 Team - Su	1 I I		1 1 1		
DGN.COX.308.020	VDOT - Utility Relocation Review - Utility Conflict ID # 308	21 07-20-18					VDOT - Uti					
DGN.COX.308.025	VDOT - Approve Utility Relocation - Utility Conflict ID # 308	0	08-09-18				VDOT - Ap			· •	h	
64.A4.RELO.COX.308	Cox Comm Relocate Utility - Utility Conflict ID # 308	40 08-10-18	10-23-18				1 I I I I	x Comm F	1 I I I	1 1 1		1.1.1
Utility Conflict ID # 803		168 05-09-18						23-18, Utilit				
Remaining Level of Effort	Critical Remaining Work	State Project No.	0064-965	229 P-1	01. R-201 C-5)1. B-638 B	-639 B-640					
Actual Work	Milestone				8, D-609, D-610		200, 0 040	3				
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ity ID	Activity Name	Original Duration	Start	Finish	Qtr 4	Qtr 1	2 Qtr 2	018 Qtr 3	Qtr 4	Qtr 1	20 Qtr 2	019 Qtr 3	Qtr 4	Qtr 1
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DGN.COX.803.005	Cox Comm Design Utility Relocation - Utility Conflict ID # 803	40	05-09-18	07-05-18				Cox 🤇	Comm D	esign Utility	Relocation	n - Utility Co	nflict ID # 8	803
DGN.COX.803.010	DB Team - Utility Relocation Review - Utility Conflict ID # 803	10	07-06-18	07-19-18								- Utility Cor		
DGN.COX.803.015	DB Team - Submit Utility Relocation Design to VDO T - Utility Conflict IE	0 # 0		07-19-18				◆ DB	Team - Sul	omit Utility F	Relocation	Design to V	DO T - Utili	llity Cor
DGN.COX.803.020	VDOT - Utility Relocation Review - Utility Conflict ID # 803	21	07-20-18	08-09-18				i 🗖 i	ΌΟΤ - Utili	ty Relocatio	on Review	- Utility Con	flict ID # 8	303
DGN.COX.803.025	VDOT - Approve Utility Relocation - Utility Conflict ID # 803	0		08-09-18				♦ V	ΌΟΤ - App	rove Utility	Relocation	- Utility Co	nflict ID # 8	803
C2.LHD.RELO.COX.803	Cox Comm Relocate Utility - Utility Conflict ID # 803	40	08-10-18	10-23-18					Co>	Comm I	Relocate U	tility - Utility	Conflict ID) # 803
Utility Conflict ID # 810		168	05-09-18	10-23-18					10-	23-18, Utilit	y Conflict II	D#810		
DGN.COX.810.005	Cox Comm Design Utility Relocation - Utility Conflict ID # 810	40	05-09-18	07-05-18				Cox Cox	Comm D	esign Utility	Relocation	h - Utility Cφ	nflict ID # 8	810
DGN.COX.810.010	DB Team - Utility Relocation Review - Utility Conflict ID # 810	10	07-06-18	07-19-18				DB	Team - Uti	ity Relocati	on Review	- Utility Cor	nflict I D # 8	810
DGN.COX.810.015	DB Team - Submit Utility Relocation Design to VDO T - Utility Conflict IE	0 # 0		07-19-18				♦ DB	Team - Sul	omit Utility F	Relocation	Þesign to γ≀	DO T - Utili	ility Cor
DGN.COX.810.020	VDOT - Utility Relocation Review - Utility Conflict ID # 810	21	07-20-18	08-09-18				i 🗖 v	DOT - Util	ty Relocatio	h Review	- Utility Con	flict ID # 8	310
DGN.COX.810.025	VDOT - Approve Utility Relocation - Utility Conflict ID # 810	0		08-09-18				♦ V	DOT - App	rove Utility	Relocation	- Utility Co	nflict ID # 8	810
C2.LHD.RELO.COX.810	Cox Comm Relocate Utility - Utility Conflict ID # 810	40	08-10-18	10-23-18					Co>	Çomm F	Relocate U	tility - Utility	Conflict ID) # 810
Verizon Virginia LLC		86	03-16-18	07-17-18		· · · ·	- i i	07-	17-18, Veriz	on Virginia	LLC			
Utility Coordination		86	03-16-18	07-17-18		-		07-	17-18, Utilit	y Coordina	tion			
SEGIII.VZN.UDC	Verizon - Utility Design Coordination Meeting		03-16-18				/erizon .	1 1 1		dination Me	1 1 1			
SEGIII.VZN.PUCC	Verizon - Potential Utility Conflict Coordination - Utility Conflict ID # 306.		07-16-18				VCHZOH	1 1 1	Ŭ I		, T	ordination - I	Itility Confl	flict ID
			07-26-18								4	+		12-05-1
Procurement		490	07-20-10	12-03-13										
Materials		498	07-26-18	12-05-19									12	12-05-1
Shop Drawings		496	07-26-18	12-03-19						1 1 1			12	2-03-1
Preparation		328	07-26-18	11-12-19									11-1	12-19,
PROC.SD.PILE.ECP.005	Vendor Prepare Shop Drawings - Piles - 64 EB over Colonial	15	07-26-18	08-15-18					vendor Pre	pare Shop	Drawings -	Piles - 64 I	EB over Co	colonial
PROC.SD.PILE.WCP.005	Vendor Prepare Shop Drawings - Piles - 64 WB over Colonial	15	07-26-18	08-15-18						!		Piles - 64		
PROC.SD.PILE.EQC.005	Vendor Prepare Shop Drawings - Piles - 64 EB over Queens Creek	15	07-30-18	08-17-18				1. 1. 1.			1 I Î I	- Piles - 64		1 I
PROC.SD.PILE.WQC.005	Vendor Prepare Shop Drawings - Piles - 64 WB over Queens Creek	15	07-30-18	08-17-18					Vendor Pre	pare Shop	Drawings -	Piles - 64	WB over C	Queen
PROC.SD.PILE.ELH.005	Vendor Prepare Shop Drawings - Piles - 64 EB over Lakeshead	15	07-31-18	08-20-18				i 👝 i	Vendor Pre	pare Shop	Drawings	- Piles - 64	EB over La	akesh
PROC.SD.PILE.WLH.005	Vendor Prepare Shop Drawings - Piles - 64 WB over Lakeshead	15	07-31-18	08-20-18							1 1 5	- Piles - 64		
PROC.SD.GIRD.EQC.005	Vendor Prepare Shop Drawings - Girders - 64 EB over Queens Creek		09-20-18									wings - Gird		
	Vendor Prepare Shop Drawings - Girders - 64 WB over Queens Cree		09-20-18							1 1 1	1 1 1	wings - Gird		1
PROC.SD.GIRD.ELH.005	Vendor Prepare Shop Drawings - Girders - 64 EB over Lakeshead		09-21-18									wings - Gird		1 1
PROC.SD.GIRD.WLH.005	Vendor Prepare Shop Drawings - Girders - 64 WB over Lakeshead		09-21-18							1 C I	1 1 1	wings - Gird		
PREP.B641.PILE.005	Prepare Pile Reccomendations - B-641		11-27-18								1 1 1	endations -		
PREP.B638.PILE.005	Prepare Pile Reccomendations - B-638		12-03-18								4	nendations		
PREP.B640.PILE.005	Prepare Pile Reccomendations - B-640		12-11-18							- i - i - i - i	- i - i - i	mendations	- i i i	
PREP.B639.PILE.005	Prepare Pile Reccomendations - B-639		12-17-18							1 1 1	1 1 1	mendation		
PREP.B643.PILE.005	Prepare Pile Reccomendations - Abut A & Piers 1 & 2 - B-643 - Phase		12-21-18							- i - i - i -	i i i	omendation	- i i i	i i
PREP.B643.PILE.015	Prepare Pile Reccomendations - Abut B & Piers 10 & 11 - B-643 - Pha		12-27-18								1 1 1	omendation		
PREP.B643.PILE.010	Prepare Pile Reccomendations - Piers 3 - 6 - B-643 - Phase 1		01-03-19								4	comendatio		
PREP.B643.PILE.020	Prepare Pile Reccomendations - Piers 7 - 9 - B-643 - Phase 1		01-04-19							1, 1, 1, 1,	1 1 1	comendatio	- 1 - 1	i i .
PREP.B642.PILE.005	Prepare Pile Reccomendations - Abut A & Piers 1 & 2 - B-642 - Phase		10-17-19							Ппера		Comenualic	Prepar	1
PREP.B642.PILE.010	Prepare Pile Reccomendations - Piers 3 - 6 - B-642 - Phase 1		10-17-19											are Pil
	Prepare Pile Reccomendations - Piers 7 - 9 - B-642 - Phase 1													1 1
PREP.B642.PILE.020 PREP.B642.PILE.015	Prepare Pile Reccomendations - Piers 7 - 9 - B-042 - Phase 1 Prepare Pile Reccomendations - Abut B & Piers 10 & 11 - B-642 - Pha		11-04-19 11-11-19					·					I Prep	pare Pi
													- 1 1 1	i i
Submittals		454	08-15-18	11-12-19									11-1	12-19,
Remaining Level of Effort	Critical Remaining Work	State P	Project No.:	0064-965-	229, P-10	01, R-201, C	-501, B	-638, B-6	39, B-640,					
Actual Work	♦ Milestone		E			D-609, D-6 : NHPP-064								

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KANSKA	Activity Name	Original Start	Finish	tity Improvements - Segment III	Proposal Date: September 14
ity iD		Original Start Duration	Finish	Qtr 4 Qtr 1 Qtr 2	Qtr 3 Qtr 4 Qtr 1 Qtr 2 Qtr 3 Qtr 4 Qtr 1 Qtr 2 Qtr 3 Qtr 4 Qtr 1 Qtr 2 Qtr
PROC.SD.PILE.ECP.010	Vendor Submit Shop Drawings to DB Team - Piles - 64 EB over Colonial	0	08-15-18	ONDJFMAMJ	J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A ◆ Vendor Submit Shop Drawings to DB Team - Piles - 64 EB over Colonial
PROC.SD.PILE.WCP.010	Vendor Submit Shop Drawings to DB Team - Piles - 64 WB over Colonial Vendor Submit Shop Drawings to DB Team - Piles - 64 WB over Colonial	0	08-15-18		 ✓ Vendor Submit Shop Drawings to DB Team - Piles - 64 WB over Colonial
PROC.SD.PILE.EQC.010	Vendor Submit Shop Drawings to DB Team - Piles - 64 WB over Colonial Vendor Submit Shop Drawings to DB Team - Piles - 64 EB over Queens (0	08-17-18		◆ Vendor Submit Shop Drawings to DB Team - Piles - 64 EB over Queens Creek
	Vendor Submit Shop Drawings to DB Team - Piles - 64 EB over Queens to Vendor Submit Shop Drawings to DB Team - Piles - 64 WB over Queens to	0	08-17-18		-+
PROC.SD.PILE.WQC.010		0			◆ Vendor Submit Shop Drawings to DB Team - Piles - 64 WB over Queens Creek
PROC.SD.PILE.ELH.010	Vendor Submit Shop Drawings to DB Team - Piles - 64 EB over Lakeshea	0	08-20-18		◆ Vehdor Submit Shop Drawings to DB Team - Piles - 64 EB over Lakeshead
PROC.SD.PILE.WLH.010	Vendor Submit Shop Drawings to DB Team - Piles - 64 WB over Lakeshe	0	08-20-18		◆ Vendor Submit Shop Drawings to DB Team - Piles - 64 WB over Lakeshead
PROC.SD.PILE.ECP.020	DB Team Submit Shop Drawings to VDOT - Piles - 64 EB over Colonial	0	08-29-18		◆ DB Team Submit Shop Drawings to VDOT - Piles - 64 EB over Colonial
PROC.SD.PILE.WCP.020	DB Team Submit Shop Drawings to VDOT - Piles - 64 WB over Colonial	0	08-29-18		◆ DB Team Submit Shop Drawings to VD/OT - Piles - 64 WB over Colonial
PROC.SD.PILE.EQC.020	DB Team Submit Shop Drawings to VDOT - Piles - 64 EB over Queens C	0	08-31-18		♦ DB Team Submit Shop Drawings to VDOT - Piles - 64 EB over Queens Creek
	DB Team Submit Shop Drawings to VDOT - Piles - 64 WB over Queens (0	08-31-18		◆ DB Team Submit Shop Drawings to VDOT - Piles - 64 WB over Queens Creek
PROC.SD.PILE.ELH.020	DB Team Submit Shop Drawings to VDOT - Piles - 64 EB over Lakeshea	0	09-04-18		DB Team Submit Shop Drawings to VDOT - Piles - 64 EB over Lakeshead
PROC.SD.PILE.WLH.020	DB Team Submit Shop Drawings to VDOT - Piles - 64 WB over Lakeshea	0	09-04-18		♦ DB Team Submit Shop Drawings to VDOT - Piles - 64 WB over Lakeshead
PROC.SD.GIRD.EQC.010	Vendor Submit Shop Drawings to DB Team - Girders - 64 EB over Queer	0	10-10-18		Mendor, Submit Shop Drawings; to DB Team - Girdets - 64 EB; over Queens; Creek
PROC.SD.GIRD.WQC.010	Vendor Submit Shop Drawings to DB Team - Girders - 64 WB over Quee	0	10-10-18		◆ Vendor Submit Shop Drawings to DB Team - Girders - 64 WB over Queens Creek
PROC.SD.GIRD.ELH.010	Vendor Submit Shop Drawings to DB Team - Girders - 64 EB over Lakes	0	10-11-18		♦ Vendor Submit Shop Drawings to DB Team - Girders - 64 EB over Lakeshead
PROC.SD.GIRD.WLH.010	Vendor Submit Shop Drawings to DB Team - Girders - 64 WB over Lakes	0	10-11-18		◆ Vendor Submit Shop Drawings to DB Team - Girders - 64 WB over Lakeshead
PROC.SD.GIRD.EQC.020	DB Team Submit Shop Drawings to VDOT - Girders - 64 EB over Queens	0	10-24-18		◆ DB Team Submit Shop Drawings to VDOT - Girders - 64 EB over Queens Creek
PROC.SD.GIRD.WQC.020	DB Team Submit Shop Drawings to VDOT - Girders - 64 WB over Queer	0	10-24-18		♦ DB Team Submit Shop Drawings to MDOT - Girders - 64 WB over Queens Creek
PROC.SD.GIRD.ELH.020	DB Team Submit Shop Drawings to VDOT - Girders - 64 EB over Lakesh	0	10-25-18		DB Team Submit Shop Drawings to VDOT - Girders - 64 EB over Lakeshead
PROC.SD.GIRD.WLH.020	DB Team Submit Shop Drawings to VDOT - Girders - 64 WB over Lakes	0	10-25-18		DB Team Submit Shop Drawings to VDOT - Girders - 64 WB over Lakeshead
SUBM.B641.PILE.005	Submit Pile Reccomendations to VDOT - B-641	0	11-28-18		♦ Submit Pile Reccomendations to VDOT - B-641
SUBM.B638.PILE.005	Submit Pile Reccomendations to VDOT - B-638	0	12-04-18		♦ Submit Pile Reccomendations to VDOT - B-638
SUBM.B640.PILE.005	Submit Pile Reccomendations to VDOT - B-640	0	12-12-18		◆ Submit Pile Reccomendations to VDOT + B-640
SUBM.B639.PILE.005	Submit Pile Reccomendations to VDOT - B-639	0	12-18-18		◆ Submit Pile Reccomendations to VDOT - B+639
SUBM.B643.PILE.005	Submit Pile Reccomendations to VDOT - Abut A & Piers 1 & 2 - B-643 - P	0	12-26-18		◆ Submit Pile Reccomendations to VDOT - Abut A & Piers 1 & 2 - B-643 - Phase 1
SUBM.B643.PILE.015	Submit Pile Reccomendations to VDOT - Abut B & Piers 10 & 11 - B-643	0	12-28-18		◆ Submit Pile Reccomendations to VDOT - Abut B & Piers 10 & 11 - B-643 - Phase 1
SUBM.B643.PILE.010	Submit Pile Reccomendations to VDOT - Piers 3 - 6 - B-643 - Phase 1	0	01-04-19		 Submit Pile Recommendations to VDOT - Piers 3 - 6 - B-643 - Phase 1
SUBM.B643.PILE.020	Submit Pile Reccomendations to VDOT - Piers 7 - 9 - B-643 - Phase 1	0	01-07-19		 Submit Pile Recommendations to VDOT - Piers 7 - 9 - B-643 - Phase 1
SUBM.B642.PILE.005	Submit Pile Reccomendations to VDOT - Abut A & Piers 1 & 2 - B-642 - P	0	10-18-19		♦ Submit Pile Recommendations to VDOT - Abut A & Piers 1 & 2 - B-642 - Pi
SUBM.B642.PILE.000	Submit Pile Reccomendations to VDOT - Piers 3 - 6 - B-642 - Phase 1	0	10-10-19		◆ Submit Pile Reccomendations to VDOT - Piers 3 - 6 - B-642 - Phase 1
SUBM.B642.PILE.010	Submit Pile Reccomendations to VDOT - Piers 7 - 9 - B-642 - Phase 1	0	11-05-19		 ✓ Submit File Reccomendations to VDOT - Piers 7 - 9 - B-642 - Phase 1 ♦ Submit Pile Reccomendations to VDOT - Piers 7 - 9 - B-642 - Phase 1
		0	11-12-19		
SUBM.B642.PILE.015	Submit Pile Reccomendations to VDOT - Abut B & Piers 10 & 11 - B-642 -	175 00 40 4			◆ Submit Pile Recoomendations to VDOT - Abut B & Piers 10 & 11 - B-64
Reviews		475 08-16-1		· · · · · · · · · · · · · · · · · · ·	▼ 12-03-19, Reviews
Design-Builder Review	IS	313 08-16-1	8 11-12-19		▼ 11-12-19, Design-Builder Reviews
PROC.SD.PILE.ECP.015	DB Team Review Shop Drawings - Piles - 64 EB over Colonial	10 08-16-1	8 08-29-18		DB Team Review Shop Drawings - Piles - 64 EB over Colonial
PROC.SD.PILE.WCP.015	DB Team Review Shop Drawings - Piles - 64 WB over Colonial	10 08-16-1	8 08-29-18		🔲 DB Team Review Shop Drawings - Piles - 64 WB over Colonia
PROC.SD.PILE.EQC.015	DB Team Review Shop Drawings - Piles - 64 EB over Queens Creek	10 08-20-1	8 08-31-18		📙 DB Team Review Shop Drawings - Ples - 64 EB over Queens Creek
PROC.SD.PILE.WQC.015	DB Team Review Shop Drawings - Piles - 64 WB over Queens Creek	10 08-20-1	8 08-31-18		🖬 DB Team Review Shop Drawings - Pies - 64 WB over Queens Creek
PROC.SD.PILE.ELH.015	DB Team Review Shop Drawings - Piles - 64 EB over Lakes head	10 08-21-1	8 09-04-18		📮 DB Team Review Shop Drawings - Piles - 64 EB over Lakeshead
PROC.SD.PILE.WLH.015	DB Team Review Shop Drawings - Piles - 64 W B over Lakes head	10 08-21-1	8 09-04-18		DB Team Review Shop Drawings - Piles - 64 WB over Lakes head
PROC.SD.GIRD.EQC.015	DB Team Review Shop Drawings - Girders - 64 EB over Queens Creek	10 10-11-1	8 10-24-18		🔲 DB Team Review Shop Drawings - Girders - 64 EB over Queens Creek
PROC.SD.GIRD.WQC.015	DB Team Review Shop Drawings - Girders - 64 WB over Queens Creek	10 10-11-1	8 10-24-18		DB Team Review Shop Drawings - Girders - 64 WB over Queens Creek
PROC.SD.GIRD.ELH.015	DB Team Review Shop Drawings - Girders - 64 EB over Lakeshead	10 10-12-1	8 10-25-18		DB Team Review Shop Drawings - Girders - 64 EB over Lakeshead
	DB Team Review Shop Drawings - Girders - 64 WB over Lakeshead		8 10-25-18	· · · · · · · · · · · · · · · · · · ·	DB Team Review Shop Drawings - Girders - 64 WB over Lakeshead
ORD.B641.PILE.045	Order Production Piles - B-641	0	11-28-18		Order Production Piles - B-641
Remaining Level of Effort	Critical Remaining Work	State Project No	o.: 0064-965	229, P-101, R-201, C-501, B-6	8, B-639, B-640, FULL SCHEDULE F
Actual Work	♦ Milestone		B-641, B-64	I2, B-643, D-609, D-610, D-611	Page 16

5KANSKA	Activity Nome	Contanta d			city Improvements - Segment III	2019
ivity ID	Activity Name	Original Duration		Finish	Qtr 4 Qtr 1 Qtr 2 Qtr 3 Qtr 4 C	ttr 1 Qtr 2 Qtr 3 Qtr 4 Qt
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ORD.B638.PILE.055	Order Production Piles - B-638	0		12-04-18		er Production Piles - B-638
ORD.B640.PILE.035	Order Production Piles - B-640	0		12-12-18		er Production Piles - B-640
ORD.B639.PILE.025	Order Production Piles - B-639	0		12-18-18	······································	der Production Piles - B-639
ORD.B643.PILE.005	Order Production Piles - Abut A & Piers 1 & 2 - B-643 - Phase 1	0		12-26-18		der Production Piles-Abut A & Piers 1 &
ORD.B643.PILE.015	Order Production Piles- Abut B & Piers 10 & 11 - B-643 - Phase 1	0		12-28-18		rder Production Piles-Abut B & Piers 10
ORD.B643.PILE.010	Order Production Piles- Piers 3 - 6 - B-643 - Phase 1	0		01-04-19		order Production Piles- Piers 3 - 6 - B-64
ORD.B643.PILE.020	Order Production Piles- Piers 7 - 9 - B-643 - Phase 1	0		01-07-19		Order Production Piles- Piers 7 - 9 - B-64
ORD.B642.PILE.005	Order Production Piles- Abut A & Piers 1 & 2 - B-642 - Phase 1	0		10-18-19		◆ Order Pro
ORD.B642.PILE.010	Order Production Piles- Piers 3 - 6 - B-642 - Phase 1	0		10-29-19		◆ Order Pr
ORD.B642.PILE.020	Order Production Piles- Piers 7 - 9 - B-642 - Phase 1	0		11-05-19		Order P
ORD.B642.PILE.015	Order Production Piles- Abut B & Piers 10 & 11 - B-642 - Phase 1	0		11-12-19		◆ Order I
VDOT Reviews		461	08-30-18	12-03-19	•	12-0
PROC.SD.PILE.ECP.025	VDOT Review & Approve Shop Drawings - Piles - 64 EB over Color	nial 21	08-30-18	09-19-18	🗖 VDOT Revie	w & Approve Shop Drawings - Piles - 64
PROC.SD.PILE.WCP.025	VDOT Review & Approve Shop Drawings - Piles - 64 WB over Colo	onial 21	08-30-18	09-19-18	🔲 VDOT Revie	w & Approve Shop Drawings - Piles - 64
PROC.SD.PILE.EQC.025	VDOT Review & Approve Shop Drawings - Piles - 64 EB over Quee	ens Ci 21	09-01-18	09-21-18	🗖 VDO† Revie	w & Approve Shop Drawings - Piles - 64
PROC.SD.PILE.WQC.025	VDOT Review & Approve Shop Drawings - Piles - 64 WB over Que	ens C 21	09-01-18	09-21-18	🗖 VDOT Revie	w & Approve Shop Drawings - Piles - 64
PROC.SD.PILE.ELH.025	VDOT Review & Approve Shop Drawings - Piles - 64 EB over Lake	shead 21	09-05-18	09-25-18	🔲 VDOT Revie	w & Approve Shop Drawings - Piles - 64
PROC.SD.PILE.WLH.025	VDOT Review & Approve Shop Drawings - Piles - 64 WB over Lake	eshea 21	09-05-18	09-25-18	🔲 VDOT Revie	w & Approve Shop Drawings - Piles - 64
PROC.SD.GIRD.EQC.025	VDOT Review & Approve Shop Drawings - Girders - 64 EB over Q	ueens 21	10-25-18	11-14-18	VD/OT	Review & Approve Shop Drawings - Gird
PROC.SD.GIRD.WQC.02	5 VDOT Review & Approve Shop Drawings - Girders - 64 WB over C	ueen 21	10-25-18	11-14-18		Review & Approve Shop Drawings - Gire
PROC.SD.GIRD.ELH.025			10-26-18	11-15-18		Review & Approve Shop Drawings - Gird
PROC.SD.GIRD.WLH.025			10-26-18			Review & Approve Shop Drawings - Gir
VDOT.B641.PILE.005	VDOT Review & Approve Pile Reccomendations - B-641			12-19-18		OT Review & Approve Pile Reccomenda
VDOT.B638.PILE.005	VDOT Review & Approve Pile Reccomendations - B-638			12-25-18		OOT Review & Approve Pile Reccomend
VDOT.B640.PILE.005	VDOT Review & Approve Pile Reccomendations - B-640			01-02-19		DOT Review & Approve Pile Reccomen
VDOT.B639.PILE.005	VDOT Review & Approve Pile Reccomendations - B-639			01-08-19		/DOT Review & Approve Pile Reccomen
VDOT.B643.PILE.005	VDOT Review & Approve Pile Reccomendations - Abut A & Piers 1			01-16-19		VDOT Review & Approve Pile Reccome
VDOT.B643.PILE.015	VDOT Review & Approve Pile Reccomendations - Abut B & Piers 10			01-18-19		VDOT Review & Approve Pile Reccome
VDOT.B643.PILE.010	VDOT Review & Approve File Reccomendations - Piers 3 - 6 - B-64			01-25-19		VDOIT Review & Approve Pile Reccome
VDOT.B643.PILE.020	VDOT Review & Approve Pile Reccomendations - Piers 7 - 9 - B-64			01-28-19		VDOT Review & Approve Pile Reccom
VDOT.B642.PILE.005	VDOT Review & Approve File Reccomendations - Abut A & Piers 1		10-19-19			
VDOT.B642.PILE.010	VDOT Review & Approve Pile Reccomendations - Piers 3 - 6 - B-64			11-19-19		
VDOT.B642.PILE.020 VDOT.B642.PILE.015	VDOT Review & Approve Pile Reccomendations - Piers 7 - 9 - B-64 VDOT Review & Approve Pile Reccomendations - Abut B & Piers 10		11-06-19	12-03-19		VDO
	VDOT Review & Approve Pile Reccomendations - Abut B & Pers In					
Fabrication			09-20-18			▼ 12-0
FAB.TST.PILE.ECP	Fabricate - Test Piles - 64 EB over Colonial			10-10-18		Test Piles - 64 EBover Colonial
FAB.TST.PILE.WCP	Fabricate - Test Piles - 64 WB over Cobnial			10-10-18		Test Piles - 64 WB over Cobnial
FAB.TST.PILE.EQC	Fabricate - Test Piles - 64 EB over Queens Creek			10-12-18	······································	- Test Piles - 64 EBover Queens Creek
FAB.TST.PILE.WQC	Fabricate - Test Piles - 64 WB over Queens Creek			10-12-18		Test Piles - 64 WB over Queens Creek
FAB.TST.PILE.ELH	Fabricate - Test Piles - 64 EB over Lakeshead			10-16-18		- Test Piles - 64 EBover Lakeshead
FAB.TST.PILE.WLH	Fabricate - Test Piles - 64 WB over Lakeshead			10-16-18		-TestPiles - 64 WB over Lakeshead
FAB.PRD.GIRD.EQC	Fabricate - Production Girders - 64 EB over Queens Creek	30	11-15-18	01-02-19		abricate - Production Girders - 64 EB ov
FAB.PRD.GIRD.WQC	Fabricate - Production Girders - 64 WB over Queens Creek	30	11-15-18	01-02-19		abricate - Production Girders - 64 WB ov
FAB.PRD.GIRD.ELH	Fabricate - Production Girders - 64 EB over Lakeshead			01-03-19		abricate - Production Girders - 64 EB ov
FAB.PRD.GIRD.WLH	Fabricate - Production Girders - 64 WB over Lakeshead	30	11-16-18	01-03-19		abricate - Production Girders - 64 WB o
Remaining Level of Effor	rt Critical Remaining Work	State F	Project No.	: 0064-965-	-229, P-101, R-201, C-501, B-638, B-639, B-640,	
Actual Work	♦ ♦ Milestone				42, B-643, D-609, D-610, D-611	
Remaining Work	Summary				Project No.: NHPP-064-3 (498)	
				Contract	ID Number: C00106689DB97	

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vity ID	Activity Name	Original Duration		Finish	Qtr 4	-	Qtr 1	Qtr 2		Qtr 3	Q	tr 4	Qtr 1	Qtr		Qtr 3	Qtr 4	Qtr
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FAB.PRD.PILE.B641	Fabricate Production Piles - B-641		11-29-18										- i i	te Produ	i i i	; ; ;		
FAB.PRD.PILE.B638	Fabricate Production Piles - B-638		12-05-18									- 1		ate Prod				
FAB.PRD.PILE.B640	Fabricate Production Piles - B-640		12-13-18								+ -			ate Pro	<u></u>	(<u> </u>)-		
FAB.PRD.PILE.B639	Fabricate Production Piles - B-639		12-19-18									- i _	i i	cate Pro	i i i	; ; ;		i i
FAB.PRD.PILE.WQC.005	Fabricate Production Piles- Abut A & Piers 1 & 2 - B-643 - Phase 1		12-27-18			÷							1 1		1 1 1	: : :		& Piers
FAB.PRD.PILE.WQC.015	Fabricate Production Piles- Abut B & Piers 10 & 11 - B-643 - Phas		12-31-18									-	1 1		1 1 1			3 & Piers
FAB.PRD.PILE.WQC.010	Fabricate Production Piles- Piers 3 - 6 - B-643 - Phase 1		01-07-19			Ì							1 1	1 1 1	: : :	: : :		3 - 6 - B
FAB.PRD.PILE.WQC.020	Fabricate Production Piles- Piers 7 - 9 - B-643 - Phase 1		01-08-19										Fat	pricate P	roducti	ion Pile		7-9-B
FAB.PRD.PILE.EQC.005	Fabricate Production Piles- Abut A & Piers 1 & 2 - B-642 - Phase 1		10-21-19															abricate
FAB.PRD.PILE.EQC.010	Fabricate Production Piles- Piers 3 - 6 - B-642 - Phase 1		10-30-19															Fabricate
FAB.PRD.PILE.EQC.020	Fabricate Production Piles- Piers 7 - 9 - B-642 - Phase 1		11-06-19														i i i	Fabrica
FAB.PRD.PILE.EQC.015	Fabricate Production Piles - Abut B & Piers 10 & 11 - B-642 - Phas		11-13-19															Fabrica
Mobilization		120	12-07-17	05-31-18					05-3	1-18,	Mobili	ization						
MOB.OFFICE	Procure & Outfit Project Office	60	12-07-17	03-07-18			÷;	Procure	& Ou	tfit Pro	ject C	Office						
MOB.STAFF	Mobilize Project Staff	30	02-14-18	03-28-18				Mobi	lize Pro	ject S	taff							
MOB.EQUIP	Procure Project Equipment	60	03-08-18	05-31-18					Proc	ure Pi	roject	Equip	ment					
Construction			09-10-18							-					<u> </u>			_
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Stage 1 - Construction			09-10-18															
Area A		611	09-10-18	05-12-20		i					1	-						
Roadway		611	09-10-18	05-12-20						•								
64M.A6.STORM.105	Install Storm Drain Pipe & Structures - I-64 Median (Area A-6) - Pl	nase 1 26	12-06-18	01-28-19		÷							🔲 Inst	tall Storn	n Drain	Pipe &	Structu	ıres - I-6
Preparation		129	10-09-18	06-14-19							-	:			▼ 06-	14-19,	Prepara	ation
64.A2.ESC.105	Install E&SC Devices - I-64 (Area A-2) - Phase 1	12	10-09-18	10-30-18								Insta	I E&SC I	Devices	- I-64 (Area A	-2) - Pha	ase 1
64.A4.ESC.105	Install E&SC Devices - I-64 (Area A-4) - Phase 1	16	10-09-18	11-05-18						!!	-	Inst	all E&SC	Devices	3 - I-64	(Area/	A-4) - Ph	nase 1
64M.A2.CLR.105	Clear & Grub Trees - I-64 Median (Area A-2) - Phase 1	12	10-16-18	11-05-18							1 📩	Ċlea	r & Grut	Trees -	I-64 N	ledian ((Arė́a Å-	-2) - Pha
64M.A4.CLR.105	Clear & Grub Trees - I-64 Median (Area A-4) - Phase 1	12	10-23-18	11-12-18														-4) - Pha
64.A5.ESC.105	Install E&SC Devices - I-64 (Area A-5) - Phase 1	12	10-31-18	11-19-18		ł					1	🔳 [¦] Ins	tall E&S	Device	ės - I-6	4 (Årea	a A-5) - F	Phase 1
64M.A5.CLR.105	Clear & Grub Trees - I-64 Median (Area A-5) - Phase 1	12	11-06-18	11-30-18							1	🗖 c	lear & G	rub Tree	is - I-64	4 Media	an (Area	a A-5) - P
64.A6.ESC.105	Install E&SC Devices - I-64 (Area A-6) - Phase 1		11-06-18				L L									!! !	k − − N − − - N − -	Phase '
64M.A6.CLR.105	Clear & Grub Trees - I-64 Median (Area A-6) - Phase 1		11-13-18								1 1					i í i		a A-6) -
64.A3.ESC.105	Install E&SC Devices - I-64 (Area A-3) - Phase 1		11-20-18												: : :	: : :		3) - Phas
64M.A3.CLR.105	Clear & Grub Trees - I-64 Median (Area A-3) - Phase 1		12-10-18										1 1	1 1 1	1 1 1	i i i	i 1 1	Area A-3
64.A1.ESC.105	Install E&SC Devices - I-64 (Area A-1) - Phase 1		12-18-18										- i i		i i i	i i i		4-1) - Ph
64M.A1.CLR.105	Clear & Grub Trees - I-64 Median (Area A-1) - Phase 1		01-04-19										+ +			() <u>}</u>	Median (
A6.RPG.CLR.105	Clear Trees - Route 143 - Ramp G (Area A-6) - Phase 1		06-10-19									-		-i i i	i i i	i i i	es - Rou	i i
Maintenance of Traffic			09-10-18			Ì				-	; ;						.5 1100	
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64E.A1.TPAV.105	Strengthen Outside Shoulder - I-64 EB Outside (Area A-1) - Phase		09-10-18			Ì				1 I I	1.1	Ŭ,	1 1		1 I I		`	(Area A-1
64E.A1.TSTR.105	Eradicate & Install Temp. Striping (Shifting Traffic to Outside) - I-64		09-17-18							ii			÷÷		r 1			c to Outs
64E.A2.TPAV.105	Strengthen Outside Shoulder - I-64 EB Outside (Area A-2) - Phase		09-17-18			i				1 1		-	1 1					(Area A
64E.A2.TSTR.105	Eradicate & Install Temp. Striping (Shifting Traffic to Outside) - I-64		09-25-18								1.1.1		1 1		i i i	ī і і		fic to Ou
64E.A3.TPAV.105	Strengthen Outside Shoulder - I-64 EB Outside (Area A-3) - Phase		09-25-18								1 1			1 1 1	1 1 1	: : :		e (Area A
64E.A2.TBAR.105	Install Temp. Barrier Wall - I-64 EB Median (Area A-2) - Phase 1		09-28-18								- E - E							ea A-2)
64E.A3.TSTR.105	Eradicate & Install Temp. Striping (Shifting Traffic to Outside) - I-64		10-04-18								- i i -		i i		r			ffic to Οι
64E.A4.TPAV.105	Strengthen Outside Shoulder - I-64 EB Outside (Area A-4) - Phase	e 1 5	10-04-18	10-11-18								streng	hen Out	side Sho	ulder -	I-64 EI	3 Outsid	de (Area
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ty ID 64W.A6.TPAV.105 64E.A4.TSTR.105 64E.A5.TPAV.105 64W.A5.TPAV.105 64W.A6.TSTR.105 64E.A4.TBAR.105 64E.A5.TSTR.105	Activity Name Strengthen Outside Shoulder - I-64 WB Outside (Area A-6) - Phase 1 Eradicate & Install Temp. Striping (Shifting Traffic to Outside) - I-64 EB (A Strengthen Outside Shoulder - I-64 EB Outside (Area A-5) - Phase 1 Strengthen Outside Shoulder - I-64 WB Outside (Area A-5) - Phase 1	Original Duration Start 5 10-05-18 2 10-12-18	Finish	2018 Qtr 4 Qtr 1 Qtr 2 Qtr 3 Qtr 4 Qtr 1 N D J F M A M J J A S O N D J F M	2019 2020 2021 Qtr 2 Qtr 3 Qtr 4 Qtr 1 Qtr 2 Qtr 3 Qtr 4 Qtr 1 Qtr 2 Qtr 3 A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J A S O N D J F M A M J A S O N D J F M A M J A S O N D J F M A M J A S O N D J F M A M A M A M A M A M A M A M A M A M A M A M A M A M A M A M A M A M A M A M A M A M A M A M A M A M A M A M A M A M A M A M A M A M A M A M A M A M A M A M A M A M A M A M A M A M A M A M A M A M A M A M A M A M A M A M A M A M A M
64E.A4.TSTR.105 64E.A5.TPAV.105 64W.A5.TPAV.105 64W.A6.TSTR.105 64E.A4.TBAR.105 64E.A5.TSTR.105	Eradicate & Install Temp. Striping (Shifting Traffic to Outside) - I-64 EB (A Strengthen Outside Shoulder - I-64 EB Outside (Area A-5) - Phase 1		10-12-18) N D J F M A M J J A S O N D J F N	/IAIMIJIJIAISIOINIDIJIFIMIAIMIJIJIAISIOINIDIJIFIMIA MIJIJI
64E.A4.TSTR.105 64E.A5.TPAV.105 64W.A5.TPAV.105 64W.A6.TSTR.105 64E.A4.TBAR.105 64E.A5.TSTR.105	Eradicate & Install Temp. Striping (Shifting Traffic to Outside) - I-64 EB (A Strengthen Outside Shoulder - I-64 EB Outside (Area A-5) - Phase 1			Strengthen Out	side Shoulder - I-64 WB Outside (Area A-6) - Phase 1
64E.A5.TPAV.105 64W.A5.TPAV.105 64W.A6.TSTR.105 64E.A4.TBAR.105 64E.A5.TSTR.105	Strengthen Outside Shoulder - I-64 EB Outside (Area A-5) - Phase 1				táll Temp. Striping (Shifting Traffic to Outside) - I-64 EB (Area A-4) - Phase 1
64W.A5.TPAV.105 64W.A6.TSTR.105 64E.A4.TBAR.105 64E.A5.TSTR.105		5 10-12-18			itside Shoulder - I-64 EB Outside (Area A-5) - Phase 1
64W.A6.TSTR.105 64E.A4.TBAR.105 64E.A5.TSTR.105	Strengthen Outside Shoulder - 1-64 WB Outside (Area A-5) - Phase T				
64E.A4.TBAR.105 64E.A5.TSTR.105		5 10-15-18			itside Shoulder - I-64 WB Outside (Area A-5) - Phase 1
64E.A5.TSTR.105	Eradicate & Install Temp. Striping (Shifting Traffic to Outside) - I-64 WB (/	2 10-15-18			stall Temp. Striping (Shifting Traffic to Outside) - I-64 WB (Area A-6) - Phase 1
	Install Temp. Barrier Wall - I-64 EB Median (Area A-4) - Phase 1	4 10-16-18			arrier Wall - I-64 EB Median (Area A-4) - Phase 1
	Eradicate & Install Temp. Striping (Shifting Traffic to Outside) - I-64 EB (A	2 10-22-18			stall Temp. Striping (Shifting Traffic to Outside) - I-64 EB (Area A-5) - Phase 1
64E.A6.TPAV.105	Strengthen Outside Shoulder - I-64 EB Outside (Area A-6) - Phase 1	5 10-22-18			utside Shoulder - I-64 EB Outside (Area A-6) - Phase 1
64W.A4.TPAV.105	Strengthen Outside Shoulder - I-64 WB Outside (Area A-4) - Phase 1	5 10-23-18		· · · · · · · · · · · · · · · · · · ·	utside Shoulder - I-64 WB Outside (Area A-4) - Phase 1
64W.A5.TSTR.105	Eradicate & Install Temp. Striping (Shifting Traffic to Outside) - I-64 WB (/	2 10-23-18			istall Temp. Striping (Shifting Traffic to Outside) - I-64 WB (Area A-5) - Phase 1
64E.A6.TSTR.105	Eradicate & Install Temp. Striping (Shifting Traffic to Outside) - I-64 EB (A	2 10-30-18	11-01-18	Eradicate & I	nstall Temp: Striping (Shifting Traffic to Outside) - I-64 EB (Area A-6) - Phase 1
64W.A3.TPAV.105	Strengthen Outside Shoulder - I-64 WB Outside (Area A-3) - Phase 1	5 11-01-18	11-09-18	🛛 Strengthen (Dutside Shoulder - I-64 WB Outside (Area A-3) - Phase 1
64W.A4.TSTR.105	Eradicate & Install Temp. Striping (Shifting Traffic to Outside) - I-64 WB (/	2 11-01-18	11-05-18	Eradicate & I	Install Temp: Striping (Shifting Traffic to Outside) - I-64 WB (Area A-4) - Phase 1
64W.A4.TBAR.105	Install Temp. Barrier Wall - I-64 WB Median (Area A-4) - Phase 1	4 11-06-18	11-09-18	I Install Temp	. Barrier Wall - I-64 WB Median (Area A-4)- Phase 1
64W.A2.TPAV.105	Strengthen Outside Shoulder - I-64 WB Outside (Area A-2) - Phase 1	5 11-12-18	11-19-18	I Strengthen	Outside Shoulder - I-64 WB Outside (Area A-2) - Phase 1
64W.A3.TSTR.105	Eradicate & Install Temp. Striping (Shifting Traffic to Outside) - I-64 WB (/	2 11-12-18	11-13-18	I Eradicate &	Install Temp. Striping (Shifting Traffic to Outside) - I-64 WB (Area A-3) - Phase 1
64W.A1.TPAV.105	Strengthen Outside Shoulder - I-64 WB Outside (Area A-1) - Phase 1	3 11-20-18	11-27-18	D Strengther	n Outside Shoulder - I-64 WB Outside (Area A-1) - Phase 1
64W.A2.TSTR.105	Eradicate & Install Temp. Striping (Shifting Traffic to Outside) - I-64 WB (/	2 11-20-18	11-26-18	D Etadicate	& Install Temp. Striping (Shifting Traffic to Outside) - I-64 WB (Area A-2) - Phase 1
64W.A2.TBAR.105	Install Temp. Barrier Wall - I-64 WB Median (Area A-2) - Phase 1	4 11-27-18	12-03-18	🗘 Install Ter	np. Barrier Wall - I-64 WB Median (Area A-2) - Phase 1
64E.A6.TBAR.105	Install Temp. Barrier Wall - I-64 EB Median (Area A-6) - Phase 1	5 11-27-18	12-04-18	🛛 Install Ter	nþ. Barrler Wall - I+64 EB Mediah (Area A-6) - Phase 1
64W.A6.TBAR.105	Install Temp. Barrier Wall - I-64 WB Median (Area A-6) - Phase 1	5 11-27-18	12-04-18	🛛 Install Ter	np. Barrier Wall - I+64 WB Median (Area A+6) - Phase 1
64W.A1.TSTR.105	Eradicate & Install Temp. Striping (Shifting Traffic to Outside) - I-64 WB (/	2 11-29-18	11-30-18	I Eradicate	& Install Temp. Striping (Shifting Traffic to Outside) - I-64 WB (Area A-1) - Phase 1
64E.A4.RBAR.105	Remove Temp. Barrier Wall - I-64 EB Median (Area A-4) - Phase 1	4 04-25-19	04-30-19		I Remove Temp, Barrier Wall - I-64 EB Median (Area A-4) - Phase 1
64W.A4.RBAR.105	Remove Temp. Barrier Wall - I-64 WB Median (Area A-4) - Phase 1	4 04-25-19	04-30-19		Remove Temp, Barrier Wall - I-64 WB Median (Area A-4) - Phase 1
64E.A6.RBAR.105	Remove Temp. Barrier Wall - I-64 EB Median (Area A-6) - Phase 1	5 05-30-19	06-06-19		Remove Temp. Barrier Wall- I-64 EB Median (Area'A-6) - Phase 1
64W.A6.RBAR.105	Remove Temp. Barrier Wall - I-64 WB Median (Area A-6) - Phase 1	5 05-30-19			Remove Temp. Barrier Wall- I-64 WB Median (Area A-6) - Phase 1
64E.A2.RBAR.105	Remove Temp. Barrier Wall - I-64 EB Median (Area A-2) - Phase 1	4 05-31-19			Remove Temp. Barrier Wall - I-64 EB Median (Area A-2) - Phase 1
64W.A2.RBAR.105	Remove Temp. Barrier Wall - I-64 WB Median (Area A-2) - Phase 1	4 05-31-19			Remove Temp. Barrier Wall- I-64 WB Mediah (Area A-2) - Phase 1
A6.RPG.TBAR.105	Install Temp. Barrier Wall - Route 143 - Ramp G (Area A-6) - Phase 1	1 06-07-19			I Install Temp. Barrier Wall - Route 143 - Ramp G (Area A-6) - Phase 1
	Install Temp. Barrier Wall - I-64 EB Median (Area A-5) - Phase 1	5 06-07-19			Install Temp. Barrier Wall - 1-64 EB Median (Area A-5) - Phase 1
	Install Temp. Barrier Wall - I-64 WB Median (Area A-5) - Phase 1	5 06-07-19			 Install Temp. Barrier Wall - I-64 WB Median (Area A-5) - Phase 1
	Install Temp. Barrier Wall - I-64 EB Median (Area A-3) - Thase T	3 06-11-19			I Install Temp. Barrier Wall - 1-64 EB Median (Area A-1) - Phase 1
		3 06-11-19			Install Temp. Barrier Wall - 1-64 WB Median (Area A-1) - Phase 1
	Install Temp. Barrier Wall - I-64 WB Median (Area A-1) - Phase 1				Install Temp, Barrier Wall - I-64 EB Median (Area A-3) - Phase 1
64E.A3.TBAR.105	Install Temp. Barrier Wall - I-64 EB Median (Area A-3) - Phase 1	4 06-20-19			
64W.A3.TBAR.105 A6.RPG.RBAR.105	Install Temp. Barrier Wall - I-64 WB Median (Area A-3) - Phase 1	4 06-20-19			L Install Temp. Barrier Wall - I-64 WB Median (Area A-3) - Phase 1
	Remove Temp. Barrier Wall - Route 143 - Ramp G (Area A-6) - Phase 1	1 09-09-19			I Remove Temp. Barrier Wall - Route 143 - Ramp G (Area A-6) - Phase 1
64E.A5.RBAR.105	Remove Temp. Barrier Wall - I-64 EB Median (Area A-5) - Phase 1	5 09-30-19			Remove Temp. Barrier Wall - I-64 EB Median (Area A-5) - Phase 1
64W.A5.RBAR.105	Remove Temp. Barrier Wall - I-64 WB Median (Area A-5) - Phase 1	5 09-30-19			Remove Temp. Barrier Wall- I-64 WB:Median (Area A-5) - Phase 1
64E.A1.RBAR.105	Remove Temp. Barrier Wall - I-64 EB Median (Area A-1) - Phase 1	3 10-30-19			I Remove Temp, Barrier Wall - I-64 EB Median (Area A-1) - Phase 1
64E.A3.RBAR.105	Remove Temp. Barrier Wall - I-64 EB Median (Area A-3) - Phase 1	4 11-12-19			I Remove Temp. Barrier Wall - I-64 EB Median (Area A-3) - Phase 1
64W.A3.RBAR.105	Remove Temp. Barrier Wall - I-64 WB Median (Area A-3) - Phase 1	4 11-12-19			I Remove Temp. Barrier Wall - I-64 WB Median (Area A-3) - Phase 1
64W.A1.RBAR.105	Remove Temp. Barrier Wall - I-64 WB Median (Area A-1) - Phase 1	3 05-08-20			🛛 Remove Temp. Barrier Wall - I-64 WB Median (4
Demolition		221 12-10-18	12-13-19		▼ 12-13-19, Demolition
64E.A4.DRDW.105	Demo Existing Roadway - I-64 EB Median (Area A-4) - Phase 1	7 12-10-18	12-20-18	Demo E	xisting Roadway - I-64 EB Median (Area A-4) - Phase 1
64W.A4.DRDW.105	Demo Existing Roadway - I-64 WB Median (Area A-4) - Phase 1	7 12-10-18	12-20-18	Demo E	xisting Roadway - I-64 WB Median (Area A-4) - Phase 1
Remaining Level of Effort	Critical Remaining Work	State Project No.:	0064-965	29, P-101, R-201, C-501, B-638, B-639, B-640,	FULL SCHEDULE
Actual Work	 ♦ Milestone 			B-643, D-609, D-610, D-611	Page
Remaining Work	Summary		Federal F	ject No.: NHPP-064-3 (498)	Print Date: 0

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tivity ID	Activity Name	Original Duration	Start	Finish	Qtr 4	Qtr 1	Qtr 2	018 Qtr 3	Qtr 4	Qtr 1	Qtr		Qtr 3	Qtr 4 (
64E.A6.DRDW.105	Demo Existing Roadway - I-64 EB Median (Area A-6) - Phase 1	7	02-14-19	02.25.10	ONC	JFN	AMJ	JAS	OND					vay - I-64 EB N
64W.A6.DRDW.105	Demo Existing Roadway - 1-64 WB Median (Area A-6) - Phase 1		02-14-19							1 1 1	1 1	1 1	1	vay - I-64 WB
64E.A2.DRDW.105			02-14-19								ii		i i .	dway - I-64 EB
	Demo Existing Roadway - I-64 EB Median (Area A-2) - Phase 1									1 1 1	1.1	1 1	Ť !	
64W.A2.DRDW.105	Demo Existing Roadway - I-64 WB Median (Area A-2) - Phase 1		03-11-19								Demo	+ +	-1	dway - I-64 WI
64E.A5.DRDW.105	Demo Existing Roadway - I-64 EB Median (Area A-5) - Phase 1		07-01-19									1 1	1 1	Existing Road
64W.A5.DRDW.105	Demo Existing Roadway - I-64 WB Median (Area A-5) - Phase 1		07-01-19										1.1.1	Existing Road
64E.A3.DRDW.105	Demo Existing Roadway - I-64 EB Median (Area A-3) - Phase 1		08-22-19											Demo Existing
64W.A3.DRDW.105	Demo Existing Roadway - I-64 WB Median (Area A-3) - Phase 1		08-22-19										1 1	Demo Existing
64E.A1.DRDW.105	Demo Existing Roadway - I-64 EB Median (Area A-1) - Phase 1		09-03-19				4	· · · ·						Demo Existing
64W.A1.DRDW.105	Demo Existing Roadway - I-64 WB Median (Area A-1) - Phase 1		12-06-19											🛛 De
Roadway			11-13-18											
64M.A4.EMCF.105	Earthwork - Mass Cut/Fill - I-64 Median (Area A-4) - Phase 1		11-13-18							arthworl	- E - E - E	1.1.1	1.1.1	4 Median (Area
64M.A2.EMCF.105	Earthwork - Mass Cut/Fill - I-64 Median (Area A-2) - Phase 1		12-04-18											ut/Fill - I-64 Me
64M.A6.EMCF.105	Earthwork - Mass Cut/Fill - I-64 Median (Area A-6) - Phase 1		12-10-18											-64 Median (Ar
64E.A4.RGRD.105	Earthwork - Fine Cut/Fill & Grading - I-64 EB Median (Area A-4) -		12-21-18	12-28-18						i i i	-i -i -	i i .	-i - i	Grading - I-64 I
64W.A4.RGRD.105	Earthwork - Fine Cut/Fill & Grading - I-64 WB Median (Area A-4) -	Phase 3	12-21-18	12-28-18						1 1 1	1 1		1 1	Grading - I-64
64E.A4.STAB.105	Stabilize Subgrade - I-64 EB Median (Area A-4) - Phase 1	3	01-15-19	01-18-19						I Stab	ilize Sub	grade	- I-64 E	EB Median (Ar
64W.A4.STAB.105	Stabilize Subgrade - I-64 WB Median (Area A-4) - Phase 1	3	01-15-19	01-18-19						I Stab	ilize Şub	grade	- I-64 \	WB Median (A
64E.A4.BARR.105	Install Permanent Barrier Wall - I-64 EB Median (Area A-4) - Phas	e 1 2	01-22-19	01-23-19]						L	والمراجع والمراجع	Wall - I-64 EB
64W.A4.BARR.105	Install Permanent Barrier Wall - I-64 W B Median (Area A-4) - Phas	se 1 2	01-22-19	01-23-19						l Inst	all Perm	anent l	Barrier	Wall - I-64 WI
64E.A4.BASE.105	Install Sub-Base - I-64 EB Median (Area A-4) - Phase 1	13	01-22-19	02-12-19						📮 In	stall Sul	-Base	- I-64	EB Median (A
64W.A4.BASE.105	Install Sub-Base - I-64 WB Median (Area A-4) - Phase 1	13	01-22-19	02-12-19						🔲 In	stall Sul	-Base	e - I-64	WB Median (A
64E.A4.OGDL.105	Install Open Graded Drainage Layer - I-64 EB Median (Area A-4)	- Phase 2	02-14-19	02-19-19						0 1	nștal O	oen¦Gr	aded D	D¦rain¦agę Layer
64W.A4.OGDL.105	Install Open Graded Drainage Layer - I-64 WB Median (Area A-4)	- Phas 2	02-14-19	02-19-19						0 1	nstall O	ben Gr	aded D	Drainage Layer
64E.A4.ASBM.105	Install Base Mix Asphalt - I-64 EB Median (Area A-4) - Phase 1	6	02-21-19	03-05-19							Install E	asę M	lix Aspl	halt - I-64 EB N
64W.A4.ASBM.105	Install Base Mix Asphalt - I-64 WB Median (Area A-4) - Phase 1	6	02-21-19	03-05-19							Install E	ase M	lix Aspl	halt - I-64 WB
64E.A6.RGRD.105	Earthwork - Fine Cut/Fill & Grading - I-64 EB Median (Area A-6) -	Phase 1 4	02-26-19	03-04-19						¢	Earthw	ork - F	ine Cut	t/Fill & Grading
64W.A6.RGRD.105	Earthwork - Fine Cut/Fill & Grading - I-64 WB Median (Area A-6) -	Phase 4	02-26-19	03-04-19						ļ ļ	Earthw	ork - F	ine Cut	t/Fill & Grading
64E.A6.STAB.105	Stabilize Subgrade - I-64 EB Median (Area A-6) - Phase 1	4	03-05-19	03-11-19						0	Stabiliz	e Subo	grade -	I-64 EB Media
64W.A6.STAB.105	Stabilize Subgrade - I-64 WB Median (Area A-6) - Phase 1	4	03-05-19	03-11-19						0	Stabiliz	e Subo	grade -	I-64 WB Med
64E.A6.BARR.105	Install Permanent Barrier Wall - I-64 EB Median (Area A-6) - Phas	e1 4	03-12-19	03-15-19						1	Install	Perma	inent B	arrier Wall - I-
64W.A6.BARR.105	Install Permanent Barrier Wall - I-64 WB Median (Area A-6) - Phas	se 1 4	03-12-19	03-15-19						1	Install	Perma	nent B	Barrier Wall - I-
64E.A6.BASE.105	Install Sub-Base - I-64 EB Median (Area A-6) - Phase 1	14	03-12-19	04-05-19							📕 İnst	all Sub	Base	- I-64 EB Med
64W.A6.BASE.105	Install Sub-Base - I-64 WB Median (Area A-6) - Phase 1	14	03-12-19	04-05-19							📕 İnst	all Sub	Base	- I-64 WB Med
64E.A2.RGRD.105	Earthwork - Fine Cut/Fill & Grading - I-64 EB Median (Area A-2) -	Phase 1 5	03-18-19	03-26-19										Out/Fill & Grad
64W.A2.RGRD.105	Earthwork - Fine Cut/Fill & Grading - I-64 WB Median (Area A-2) -		03-18-19	03-26-19						i i i	i i	i i	i i	Cut/Fill & Grad
64E.A2.STAB.105	Stabilize Subgrade - I-64 EB Median (Area A-2) - Phase 1	5	03-28-19	04-04-19							1 1	: :	1 1	le - I+64 EB Me
64W.A2.STAB.105	Stabilize Subgrade - I-64 WB Median (Area A-2) - Phase 1		03-28-19								i i	i i		le - I-64 WB M
64E.A4.ASIM.105	Install Intermediate Mix Asphalt - I-64 EB Median (Area A-4) - Phase		04-02-19										-	ate Mix Asphalt
64W.A4.ASIM.105	Install Intermediate Mix Asphalt - I-64 WB Median (Area A-4) - Pha		04-02-19								والمراور والمراور	55	والمراور والمراو	ate Mix Asphalt
64E.A2.BASE.105	Install Sub-Base - I-64 EB Median (Area A-2) - Phase 1		04-05-19									i i .	1 1	se - I-64 EB N
64W.A2.BASE.105	Install Sub-Base - I-64 WB Median (Area A-2) - Phase 1		04-05-19								1 1	: :	1 1	se - I-64 WB N
64E.A4.ASGR.105	Install Asphalt at Guardrail - I-64 EB Median (Area A-4) - Phase 1		04-11-19								i i	i i	i i	t Guardrail - I-(
64W.A4.ASGR.105	Install Asphalt at Guardrail - I-64 WB Median (Area A-4) - Phase 1		04-11-19								- i - i			t Guardrail - I-0
64E.A4.GRAIL.105	Install Guardrail - I-64 EB Median (Area A-4) - Phase 1		04-16-19									·		il - I-64 EB Me
Remaining Level of E	ffort Critical Remaining Work	State I	Project No.:	0064-965	229 P-1	01 R-201	C-501 R-0	638 B-630) B-640					
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Remaining Work	V Summary						64-3 (498)							
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ledian (Area A	2) -	Ph	ase	1												
Median (Area A	-2)	- P	has	e 1												
ay - I-64 EB Me	dia	h (/	١rea	A-	5) -	Ph	ase	1								
ay - I-64 WB M	edia	n (Are	аA	÷5)	- Pł	as	e 1								
oadway - I-64	ĖВІ	Ме	dian	(A	rea	A-3) -	Pha	ise	1						
oadway - I-64	wв	Me	dia	n (A	hrea	A-	3) -	Ph	ase	1						
koadway - I-64	EΒ	Me	dia	h (A	rea	A-	1) -	Ph	ase	1						
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-4) - Phase 1																
an (Área A-2)	Ph	ase	1													
A-6) - Phase	1															
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dian (Area A-4	34 EB Median (Area A-4) - Phase 1 54 WB Median (Area A-4) - Phase 1 an (Area A-4) - Phase 1															
dian (Area A-4	64 WB Median (Area A-4) - Phase 1															
I-64 EB Media	'n (A	rea	A-6	5) -	Ph	ase	1									
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5KANSKA	Activity Name	I-64 Capacity Improvements - Segment III Original Start Finish 2018	Proposal Date: September 14
		Duration Qtr 4 Qtr 1 Qtr 2 Qtr 3	Qtr 4 Qtr 1 Qtr 2 Qtr 3 Qtr 4 Qtr 1 Qtr 2 Qtr 3 Qtr 4 Qtr 1 Qtr 2 Qtr 3
	Install Quantum I. L CA MID Marting (Area A.4). Dhara A		SONDJFMAMJJASONDJFMAMJJASONDJFAMAMJJA
64W.A4.GRAIL.105	Install Guardrail - I-64 WB Median (Area A-4) - Phase 1	4 04-16-19 04-23-19	Install Guardrail - I-64 WB Median (Area A-4) - Phase 1
64E.A6.OGDL.105	Install Open Graded Drainage Layer - I-64 EB Median (Area A-6) - Pha		🕼 Install Open Graded Drainage Layer - I-64 EB Median (Area A-6) - Phase 1
64W.A6.OGDL.105	Install Open Graded Drainage Layer - I-64 WB Median (Area A-6) - Ph		I Install Operl Graded Drainage Layer - I-64 WB Median (Area A-6) - Phase 1
64E.A2.OGDL.105	Install Open Graded Drainage Layer - I-64 EB Median (Area A-2) - Pha		Install Open Graded Drainage Layer - I-64 EB Median (Area A-2) - Phase 1
64W.A2.OGDL.105	Install Open Graded Drainage Layer - I-64 WB Median (Area A-2) - Pha		Install Open Graded Drainage Layer - 1-64 WB Median (Area A-2) - Phase 1
64E.A6.ASBM.105	Install Base Mix Asphalt - I-64 EB Median (Area A-6) - Phase 1	6 04-30-19 05-09-19	Install Base Mix Asphalt - I-64 EB Median (Area A-6) - Phase 1
64W.A6.ASBM.105	Install Base Mix Asphalt - I-64 WB Median (Area A-6) - Phase 1	6 04-30-19 05-09-19	Install Base Mix Asphalt I-64 WB Median (Area A-6) - Phase 1
64E.A2.ASBM.105	Install Base Mix Asphalt - I-64 EB Median (Area A-2) - Phase 1	6 05-03-19 05-13-19	Install Base Mix Asphalt - I-64 EB Median (Area A-2) - Phase 1
64W.A2.ASBM.105	Install Base Mix Asphalt - I-64 WB Median (Area A-2) - Phase 1	6 05-03-19 05-13-19	🔲 Install Base Mix Asphalt - I-64 WB Median (Area A-2) - Phase 1
64E.A6.ASIM.105	Install Intermediate Mix Asphalt - I-64 EB Median (Area A-6) - Phase 1	3 05-10-19 05-14-19	I Install Intermediate Mix Asphalt - I-64 EB Mediah (Area A-6) - Phase 1
64W.A6.ASIM.105	Install Intermediate Mix Asphalt - I-64 WB Median (Area A-6) - Phase 1	3 05-10-19 05-14-19	I Install Intermediate Mix Asphalt - I-64 WB Median (Area A-6) - Phase 1
64E.A2.ASIM.105	Install Intermediate Mix Asphalt - I-64 EB Median (Area A-2) - Phase 1	3 05-14-19 05-17-19	🛿 Install Intermediate Mix Asphalt - I-64 EB Median (Area A-2) - Phase 1
64W.A2.ASIM.105	Install Intermediate Mix Asphalt - I-64 WB Median (Area A-2) - Phase 1	3 05-14-19 05-17-19	I Install Intermediate Mix Asphalt - I-64 WB Median (Area A-2) - Phase 1
64E.A6.ASGR.105	Install Asphalt at Guardrail - I-64 EB Median (Area A-6) - Phase 1	3 05-17-19 05-21-19	🛿 Install Asphalt at Guardrail - I-64 EB Median (Area A-6) - Phase 1
64W.A6.ASGR.105	Install Asphalt at Guardrail - I-64 WB Median (Area A-6) - Phase 1	3 05-17-19 05-21-19	I Install Asphalt at Guardrail - I-64 WB Median (Area A-6) - Phase 1
64E.A2.ASGR.105	Install Asphalt at Guardrail - I-64 EB Median (Area A-2) - Phase 1	3 05-20-19 05-23-19	I Install Asphalt at Guardrail - I-64 EB Median (Area A-2) - Phase 1
64W.A2.ASGR.105	Install Asphalt at Guardrail - I-64 WB Median (Area A-2) - Phase 1	3 05-20-19 05-23-19	I Install Asphalt at Guardrail - I-64 WB Median (Area A-2) - Phase 1
64E.A6.GRAIL.105	Install Guardrail - I-64 EB Median (Area A-6) - Phase 1	4 05-23-19 05-29-19	I Install Guardrall - I-64 EB Median (Area A-6) - Phase 1
64W.A6.GRAIL.105	Install Guardrail - I-64 WB Median (Area A-6) - Phase 1	4 05-23-19 05-29-19	🕼 Install Guardrail - I-64 WB Median (Area A-6) - Phase 1
64E.A2.GRAIL.105	Install Guardrail - I-64 EB Median (Area A-2) - Phase 1	4 05-24-19 05-30-19	🚺 Install Guardrall - I-64 EB Median (Area A-2) - Phase 1
64W.A2.GRAIL.105	Install Guardrail - I-64 WB Median (Area A-2) - Phase 1	4 05-24-19 05-30-19	I Install Guardrail - I-64 WB Median (Area A-2) - Phase 1
A6.RPG.ECUT.105	Earthwork Cut - Route 143 - Ramp G (Area A-6) - Phase 1	3 06-14-19 06-18-19	Earthwork Cut - Route 143 - Ramp G (Area A-6) - Phase 1
64M.A1.EMCF.105	Earthwork - Mass Cut/Fill - I-64 Median (Area A-1) - Phase 1	16 06-17-19 07-15-19	Earthwork - Mass Cut/Fill - I-64 Median (Area A-1)- Phase 1
64M.A5.EMCF.105	Earthwork - Mass Cut/Fill - I-64 Median (Area A-5) - Phase 1	6 06-17-19 06-25-19	Earthwork - Mass Cut/Fill- I-64 Median (Area A-5) - Phase 1
A6.RPG.EFIL.105	Earthwork Fill - Route 143 - Ramp G (Area A-6) - Phase 1	5 06-24-19 07-01-19	Earthwork Fill - Route 143 - Ramp G (Area A-6) - Phase 1
64M.A3.EMCF.105	Earthwork - Mass Cut/Fill - I-64 Median (Area A-3) - Phase 1	11 06-27-19 07-16-19	Earthwork - Mass Cut/Fill - I-64 Median (Area A-3); - Phase 1;
A6.RPG.RGRD.105	Rough Grade Roadway - Route 143 - Ramp G (Area A-6) - Phase 1	3 07-02-19 07-08-19	 Rough Grade Roadway - Route 143 - Ramp G (Area A-6) - Phase 1
A6.RPG.BASE.105			I Install Sub-Base - Route 143 - Ramp G (Area A-6) - Phase 1
64E.A5.RGRD.105	Install Sub-Base - Route 143 - Ramp G (Area A-6) - Phase 1	3 07-09-19 07-12-19	
	Earthwork - Fine Cut/Fill & Grading - I-64 EB Median (Area A-5) - Phas		□ Earthwork - Fine Cut/Fill & Grading - I-64 EB Median (Area A-5) - Phase 1
64W.A5.RGRD.105	Earthwork - Fine Cut/Fill & Grading - I-64 WB Median (Area A-5) - Pha		□ Earthwork - Fine Cut/Fill & Grading - I-64 WB Median (Area A-5) - Phase 1
A6.RPG.OGDL.105	Install Open Graded Drainage Layer - Route 143 - Ramp G (Area A-6)		I Install Open Graded Drainage Layer - Route 143 - Ramp G (Area A-6) - Phase 1
A6.RPG.ASBM.105	Install Base Mix Asphalt - Route 143 - Ramp G (Area A-6) - Phase 1	1 07-16-19 07-16-19	I Install Base Mix Asphalt - Route 143 - Ramp G (Area A-6) - Phase 1
A6.RPG.ASIM.105	Install Intermediate Mix Asphalt - Route 143 - Ramp G (Area A-6) - Pha		I Install Intermediate MixAsphalt - Route 143 - Ramp G (Area A-6) - Phase 1
A6.RPG.GRAIL.105	Install Guardrail - Route 143 - Ramp G (Area A-6) - Phase 1	1 07-19-19 07-19-19	I Install Guardrail - Route 143 - Ramp G (Area A-6) - Phase 1
64E.A5.STAB.105	Stabilize Subgrade - I-64 EB Median (Area A-5) - Phase 1	4 07-22-19 07-26-19	I Stabilize Subgrade - I-64 EB Median (Area A-5) - Phase 1
64W.A5.STAB.105	Stabilize Subgrade - I-64 WB Median (Area A-5) - Phase 1	4 07-22-19 07-26-19	II, Stabilize Subgrade - I-64 WB Median (Area A-5) - Phase 1
64E.A5.BASE.105	Install Sub-Base - I-64 EB Median (Area A-5) - Phase 1	14 07-29-19 08-20-19	🔲 Install Sub-Base - I-64 EB Median (Area A-5) - Phase 1
64W.A5.BASE.105	Install Sub-Base - I-64 WB Median (Area A-5) - Phase 1	14 07-29-19 08-20-19	Install Sub-Base - I+64 WB Median (Area A+5) + Phase 1
64E.A5.OGDL.105	Install Open Graded Drainage Layer - I-64 EB Median (Area A-5) - Pha		I Install Open Graded Drainage Layer - I-64 EB Median (Area A-5) - Phase 1
64W.A5.OGDL.105	Install Open Graded Drainage Layer - I-64 WB Median (Area A-5) - Pha	as 3 08-22-19 08-26-19	I Install Open Graded Draihage Layer - I-64 WB Median (Area A-5) - Phase 1
64E.A5.ASBM.105	Install Base Mix Asphalt - I-64 EB Median (Area A-5) - Phase 1	6 08-27-19 09-06-19	🖡 Install Base Mix Asphalt - I-64 EB Median (Area A-5) - Phase 1
64W.A5.ASBM.105	Install Base Mix Asphalt - I-64 WB Median (Area A-5) - Phase 1	6 08-27-19 09-06-19	🖡 Install Base Mix Asphalt - I-64 WB Median (Area A-5) - Phase 1
64E.A3.RGRD.105	Earthwork - Fine Cut/Fill & Grading - I-64 EB Median (Area A-3) - Phas	e 1 3 09-05-19 09-09-19	Earthwork - Fine Cut/Fill & Grading - I-64 EB Median (Area A-3) - Phase 1
64W.A3.RGRD.105	Earthwork - Fine Cut/Fill & Grading - I-64 WB Median (Area A-3) - Pha	e 3 09-05-19 09-09-19	I Earthwork - Fine Cut/Fill & Grading - I-64 WB Median (Area A-3) - Phase 1
64E.A5.ASIM.105	Install Intermediate Mix Asphalt - I-64 EB Median (Area A-5) - Phase 1	3 09-09-19 09-12-19	I Install Intermediate Mix Asphalt - I-64 EB Median (Area A-5) - Phase 1
Remaining Level of Effo	rt Critical Remaining Work	State Project No.: 0064-965-229, P-101, R-201, C-501, B-638, B-6	39, B-640, FULL SCHEDULE F
Actual Work	Milestone	B-641, B-642, B-643, D-609, D-610, D-611	Page 2'
Remaining Work	V Summary	Federal Project No.: NHPP-064-3 (498)	Print Date: 09
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vity ID	Activity Name	Origina Duratior		Finish	Qtr 4	Qtr 1		2018 Qtr 3	Qtr 4	Qtr 1	Qtr 2	019 Qtr 3	Qtr 4	Qtr 1
					ON	DJF							SOND	JF
64W.A5.ASIM.105	Install Intermediate Mix Asphalt - I-64 WB Median (Area A-5) - Phase		8 09-09-19										Install Inter	i i i
64E.A1.RGRD.105	Earthwork - Fine Cut/Fill & Grading - I-64 EB Median (Area A-1) - Ph		8 09-10-19									-i i i	Earthwork	i i i
64E.A3.STAB.105	Stabilize Subgrade - I-64 EB Median (Area A-3) - Phase 1		8 09-10-19	09-16-19								1 1 1	Stabilize S	і Т і
64W.A3.STAB.105	Stabilize Subgrade - I-64 WB Median (Area A-3) - Phase 1		8 09-10-19	09-16-19									Stabilize \$	Subgra
64E.A5.ASGR.105	Install Asphalt at Guardrail - I-64 EB Median (Area A-5) - Phase 1		8 09-13-19	09-17-19									I Install Asp	halt at
64W.A5.ASGR.105	Install Asphalt at Guardrail - I-64 WB Median (Area A-5) - Phase 1		8 09-13-19	09-17-19									Install Asp	phalt at
64E.A1.STAB.105	Stabilize Subgrade - I-64 EB Median (Area A-1) - Phase 1		8 09-16-19	09-19-19									Stabilize \$	Subgra
64E.A3.BASE.105	Install Sub-Base - I-64 EB Median (Area A-3) - Phase 1	13	8 09-17-19	10-10-19									🔲 İnstall \$	Sub-Ba
64W.A3.BASE.105	Install Sub-Base - I-64 WB Median (Area A-3) - Phase 1	13	8 09-17-19	10-10-19									🛑 (nstall \$	Sub-Ba
64E.A1.BASE.105	Install Sub-Base - I-64 EB Median (Area A-1) - Phase 1	ę	09-20-19	10-04-19									🔲 Install Si	ub-Bas
64E.A5.GRAIL.105	Install Guardrail - I-64 EB Median (Area A-5) - Phase 1	4	09-20-19	09-27-19									Install GL	uardrai
64W.A5.GRAIL.105	Install Guardrail - I-64 WB Median (Area A-5) - Phase 1	4	09-20-19	09-27-19									Install Gu	uardrai
64E.A1.OGDL.105	Install Open Graded Drainage Layer - I-64 EB Median (Area A-1) - P	hase 2	2 10-07-19	10-08-19									I Install O	Dpen G
64E.A1.ASBM.105	Install Base Mix Asphalt - I-64 EB Median (Area A-1) - Phase 1	4	10-10-19	10-15-19									Install E	Base N
64E.A3.OGDL.105	Install Open Graded Drainage Layer - I-64 EB Median (Area A-3) - P	hase 2	2 10-11-19	10-14-19								+	I Install (Open 0
64W.A3.OGDL.105	Install Open Graded Drainage Layer - I-64 WB Median (Area A-3) - F	Phas 2	2 10-11-19	10-14-19									I Install (
64E.A3.ASBM.105	Install Base Mix Asphalt - I-64 EB Median (Area A-3) - Phase 1		6 10-15-19										🛛 Instal	1 1 1
64W.A3.ASBM.105	Install Base Mix Asphalt - I-64 WB Median (Area A-3) - Phase 1		6 10-15-19										Instal	
64E.A1.ASIM.105	Install Intermediate Mix Asphalt - I-64 EB Median (Area A-1) - Phase		2 10-17-19										I Install	1 1 1
64E.A1.ASGR.105	Install Asphalt at Guardrail - I-64 EB Median (Area A-1) - Phase 1		2 10-21-19										I Install	i i i
64E.A1.GRAIL.105	Install Guardrail - I-64 EB Median (Area A-1) - Phase 1		10-25-19										Instal	
64E.A3.ASIM.105	Install Intermediate Mix Asphalt - I-64 EB Median (Area A-3) - Phase		3 10-25-19											all Intern
64W.A3.ASIM.105	Install Intermediate MixAsphalt - I-64 WB Median (Area A-3) - Phase		3 10-25-19										I Instal	: : :
64E.A3.ASGR.105	Install Asphalt at Guardrail - I-64 EB Median (Area A-3) - Phase 1		3 10-23-19 3 10-31-19											allAsph
			10-31-19 10-31-19									·		+
64W.A3.ASGR.105	Install Asphalt at Guardrail - I-64 WB Median (Area A-3) - Phase 1													all Asph
64E.A3.GRAIL.105	Install Guardrail - I-64 EB Median (Area A-3) - Phase 1		11-05-19										- I - I - I	tall Gua
64W.A3.GRAIL.105	Install Guardrail - I-64 WB Median (Area A-3) - Phase 1		11-05-19											tall Gua
64W.A1.RGRD.105	Earthwork - Fine Cut/Fill & Grading - I-64 WB Median (Area A-1) - Pl		3 12-16-19										1 1 1 1	Earthv
64W.A1.STAB.105	Stabilize Subgrade - I-64 WB Median (Area A-1) - Phase 1		8 12-20-19											🗖 Sta
64W.A1.BASE.105	Install Sub-Base - I-64 WB Median (Area A-1) - Phase 1		01-21-20											
64W.A1.OGDL.105	Install Open Graded Drainage Layer - I-64 WB Median (Area A-1) - F		2 04-16-20											
64W.A1.ASBM.105	Install Base Mix Asphalt - I-64 WB Median (Area A-1) - Phase 1		04-20-20											
64W.A1.ASIM.105	Install Intermediate Mix Asphalt - I-64 WB Median (Area A-1) - Phase	e 1 2	2 04-27-20	04-28-20										
64W.A1.ASGR.105	Install Asphalt at Guardrail - I-64 WB Median (Area A-1) - Phase 1		2 04-30-20											
64W.A1.GRAIL.105	Install Guardrail - I-64 WB Median (Area A-1) - Phase 1		8 05-04-20											
Storm Drainage		126	5 11-26-18	07-29-19								07-	29-19, Storm	n Drain
64M.A4.STORM.105	Install Storm Drain Pipe & Structures - I-64 Median (Area A-4) - Phas	se 1 7	11-26-18	12-07-18						Install Sto	rm Drain F	Pipe & Str	uctures + I-6	34 Medi
64M.A2.STORM.105	Install Storm Drain Pipe & Structures - I-64 Median (Area A-2) - Phas	se 1 1'	02-19-19	03-08-19							Install Sto	rm Drain	Pipe & Struc	tures -
A6.RPG.STORM.105	Install Storm Drain Pipe & Structures - Route 143 - Ramp G (Area A-	-6) - 2	2 06-20-19	06-21-19							1	Install S	Storm Drain F	Pipe &
64M.A5.STORM.105	Install Storm Drain Pipe & Structures - I-64 Median (Area A-5) - Phas	se 1 🛛 🕄	8 06-25-19	06-28-19								Install	Storm Drain	Pipe &
64M.A3.STORM.105	Install Storm Drain Pipe & Structures - I-64 Median (Area A-3) - Phas	se 1 16	6 06-27-19	07-29-19								Ins	tall Storm Dr	rain Pip
64M.A1.STORM.105	Install Storm Drain Pipe & Structures - I-64 Median (Area A-1) - Phas	se 1 8	8 07-05-19	07-19-19								🔲 Insta	all Storm Dra	ain Pipe
Systemwide		30	07-11-19	09-06-19									09-06-19, 5	System
A6.RPG.SIG.105	Install Traffic Signal - Route 143 - Ramp G (Area A-6) - Phase 1	30	07-11-19	09-06-19									Install Traffi	fic Sian
Area B			09-24-18						V			08	-06-19, Area	
Remaining Level of Effo	rt Critical Remaining Work	State	Project No.	0064-965-	229, P-'	101, R-20	1, C-501. I	B-638, B-63	39, B-640.					
Actual Work	 ♦ Milestone 			3-641, B-64					,					
Remaining Work	Summary			Federal P	roject N	o.: NHPP	-064-3 (49	8)						
				Contract	D Numl	ner: C001	06689DB9	7						

		Pro	posal Dat	e: Septerr	ber 14,	2017
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1 Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	3 tr 4 S O
ate Mix Asphalt		Median (/	Area A-5)	Phase 1		
e Cut/Fill & Gra	ding - I-64	EB Media	n (Area A	-1) - Phas	e 1	
ade - I-64 EB N	ledian (Ar	ea A-3) - P	hase 1			
ade - I-64 WB (Median (A	ea A-3) - I	Phase 1			
t Guardrail - I-	64 EB Med	lian' (Area	A-5) - Pha	se 1		
t Guardrail - I-	64 WB Me	dian (Area	A-5) - Ph	ase 1		
ade - I-64 EB N	ledian (Ar	ea Á-1) - F	hase 1			
ase - I-64 EB	Median (A	rea A-3) -	Phase 1			
ase - I-64 WB	Median (A	rea A-3) -	Phase 1			
ase - I-64 EB M	edian (Are	a A-1) - P	hase 1			
ail - I+64 EB Me	dian (Area	A-5) - Ph	ase 1			
ail - I-64 WB M	edian (Are	a A+5) - Pł	ase 1			
Graded Draina	ge Layer -	I-64 EB N	ledian (Are	a A-1) - F	hase 1	
Mix Asphalt - I-	64 EB Me	dian (Area	A-1) - Ph	ase 1		
Graded Drain	age Layer	- I-64 EB I	Median (Ai	ea A-3) -	Phase	1
Graded Drain	age Layer	- I-64 WB	Median (A	rea A-3) -	Phase	1
Mix Asphalt -	-64 EB M	edian (Are	a A+3) - Pl	hase 1		
MixAsphalt -	-64 WB N	ledian (Are	a A-3) - F	hase 1		
nediate Mix As	bhalt - 1-64	EB Media	n (Area A	1) - Phas	e 1	
alt at Guardrai	- I-64 EB	Median (A	rea A-1) -	Phase 1		
irdrail - I-64 EB	Median (Area A-1) -	Phase 1			
mediate Mix A	sphalt - I-6	4 EB Med	an (Area /	4-3) - Pha	se 1	
rmediate Mix A	sphalt - I-6	4 WB Med	lian (Area	A-3) - Pha	ise 1	
halt at Guardra	ail - 1-64 El	3 Median (Area A-3)	- Phase 1		
halt at Guardra	ail - I-64 W	'B Median	(Area A-3) - Phase	1	
ıardrail - I-64 E	B Median	(Area A-3)	- Phase 1			
ıardrail - I-64 V	/B Median	(Area A-3) - Phase	1		
work - Fine C	ut/Fill & Gr	ading - I-6	4 WB Med	lian (Area	A-1) - I	Phase
abilize Subgra	le - I-64 V	/B Median	(Area A-1) - Phase	1	
Install Sub-Bas	se - I-64 W	/B Median	(Area A-1) - Phase	1	
I Install	Open Gra	ded Drain	age Layer	- I-64 WB	Mediar	n (Årea
I Instal	l Base Mix	Asphalt -	I-64 WB N	ledian (Ar	ea A-1)	- Phas
I Insta	I Intermed	iate Mix As	phalt - I-6	4 WB Med	lian (Ar	ea A-1
l Insta	ll Asphalt a	at Guardra	iil - 1-64 W	B Median	(Area A	∖-1) - F
I Inst	all Guardra	ail - I-64 W	B Median	(Area A-1) - Pha	se 1
inage						
dian (Area A-4)	- Phase 1					
- I-64 Median	(Area A-2)	- Phase 1				
Structures - F	Route 143	- Ramp G	(Area A-6) - Phase	1	
& Structures -	I-64 Media	in (Area A-	5) - Phas	e 1		
pe & Structure	s - I-64 M	edian (Are	a A-3) - Ph	hase 1		
e & Structures	- I-64 Me	dian (Area	A-1) - Pha	ase 1		
nwide						
nal - Route 143	8 - Ramp G	6 (Area A-	6) - Phase	1		
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ANSKA				I-64 Capad	nty imp	oroven	ients - S	0			-			2010		
ID	Activity Name	Original Duration	Start	Finish	Qtr	4	Qtr 1	Qtr 2	018 Qtr 3	Qtr	4	Qtr 1	Qtr	2019 2 Qt	r 3 Qtr	4 Qt
			00.04.40	00.00.40	ON	DJ	FM	AMJ	JA	SON	I D J	I F I	MAN		ASON	
Roadway			09-24-18											1 1 1	08-06-19,	Roadway
Preparation			10-09-18							1.1	1 1	1.1	3, Prepa	1 1 1		
64.B3.ESC.105	Install E&SC Devices - I-64 (Area B-3) - Phase 1		10-09-18								1	- i - i -	- I - I - I	i i `i	rea B⊦3) - P	1 I I
64M.B3.CLR.105	Clear & Grub Trees - I-64 Median (Area B-3) - Phase 1		10-19-18									- + + -			dian (Area E	
64.B1.ESC.105	Install E&SC Devices - I-64 (Area B-1) - Phase 1		11-08-18								1	1 1	- I - I	1 1 1	4 (Area B-1	1 I I
64M.B1.CLR.105	Clear & Grub Trees - I-64 Median (Area B-1) - Phase 1		11-20-18									ear &	Grub Tr	i i i	Median (A	-i i î.
Maintenance of Traffi	<u> </u>	317	09-24-18	08-06-19											08-06-19,	Mainten
64W.B3.TPAV.105	Strengthen Outside Shoulder - I-64 WB Outside (Area B-3) - Phase 1	3	09-24-18	09-27-18						Stre	ngther	n Outs	ide Sho	ulder - I-6	4 WB Outs	ide (Area
64W.B1.TPAV.105	Strengthen Outside Shoulder - I-64 WB Outside (Area B-1) - Phase 1	4	09-28-18	10-04-18		<u></u>				🛛 Str	engthe	n Out	side Sho	ulder - I-	64 WB Out	side (Are
64W.B3.TSTR.105	Eradicate & Install Temp. Striping (Shifting Traffic to Outside) - I-64 WB (/	1	09-28-18	09-28-18						l Era	dicate	& Insta	all Temp	Striping	(Shifting Tra	affic to O
64W.B3.TBAR.105	Install Temp. Barrier Wall - I-64 WB Median (Area B-3) - Phase 1	2	10-01-18	10-02-18						l Inst	all Ten	пр. Ba	rrier Wa	II - I-64 W	/B Median (Area B-3
64W.B1.TSTR.105	Eradicate & Install Temp. Striping (Shifting Traffic to Outside) - I-64 WB (A	2	10-05-18	10-08-18						0 Era	adicate	& Ins	tall Tem	p. Striping	g (Shifting T	raffic to
64E.B1.TPAV.105	Strengthen Outside Shoulder - I-64 EB Outside (Area B-1) - Phase 1	4	10-30-18	11-06-18							\$treing	then (Dutside	Şhoulder	- 1-64 EB C)utside (
64E.B1.TSTR.105	Eradicate & Install Temp. Striping (Shifting Traffic to Outside) - I-64 EB (A	2	11-08-18	11-09-18						1	Eradio	cate &	Install 1	emp. Stri	ping (Shiftin	ıg Traffic
64E.B3.TPAV.105	Strengthen Outside Shoulder - I-64 EB Outside (Area B-3) - Phase 1	3	11-08-18	11-12-18							Stren	gthen	Outside	Shoulde	r - I-64 EB (Jutside
64E.B3.TSTR.105	Eradicate & Install Temp. Striping (Shifting Traffic to Outside) - I-64 EB (A	1	11-13-18	11-13-18						1	Eradi	cate 8	Install	Femp. Str	iping (Shiftir	ng Traffi
64E.B3.TBAR.105	Install Temp. Barrier Wall - I-64 EB Median (Area B-3) - Phase 1	2	11-15-18	11-16-18						1	Insta	ll Tem	p.Barrie	r Wall - I	-64 EB Med	lian (Are
64E.B3.CROSS.105	Install Temp. Earthwork & Drainage for Crossover - I-64 EB to WB Media	15	12-18-18	01-17-19							: 🛑	Inst	all Temp	Earthwo	ork & Draina	age for (
64E.B3.CROSS.110	Install Temp. Paving for Crossover - I-64 EB to WB (Area B-1) - Phase 1	3	01-18-19	01-24-19							1	l Ins	tall Tem	p Paving	for Crosso	ver - I-6
64E.B3.RBAR.105	Remove Temp. Barrier Wall - I-64 EB Median (Area B-3) - Phase 1	2	04-12-19	04-15-19									I R	emove Te	mp. Barrier	Wall - I
64W.B3.RBAR.105	Remove Temp. Barrier Wall - I-64 WB Median (Area B-3) - Phase 1	2	04-12-19	04-15-19									I R	emove Te	mp. Barrier	Wall - I
64E.B1.TBAR.105	Install Temp. Barrier Wall - I-64 EB Median (Area B-1) - Phase 1	4	04-16-19	04-22-19									📕 Ir	stall Tem	p, Barrier V	Vall - I-6
64W.B1.TBAR.105	Install Temp. Barrier Wall - I-64 WB Median (Area B-1) - Phase 1	4	04-16-19	04-22-19									📕 Ir	stall Tem	p. Barrier V	Vall - I-6
64W.B1.CROSS.105	Install Temp. Earthwork & Drainage for Crossover - I-64 WB to EB Media	15	06-10-19	07-08-19										i 🗖 İn	stall Temp.	Ėarthwo
64W.B1.CROSS.110	Install Temp. Paving for Crossover - I-64 WB to EB (Area B-1) - Phase 1	3	07-09-19	07-15-19		J! 								0 li	nstall Temp.	Paving
64E.B1.RBAR.105	Remove Temp. Barrier Wall - I-64 EB Median (Area B-1) - Phase 1	4	08-01-19	08-06-19											Remove T	lemp. B
64W.B1.RBAR.105	Remove Temp. Barrier Wall - I-64 WB Median (Area B-1) - Phase 1	4	08-01-19	08-06-19										Þ	Remove T	remp. Ba
Demolition		104	12-07-18	05-30-19								1 1	1 1	05-30-	19, Demolit	tion
	Demo Existing Roadway - I-64 EB Median (Area B-3) - Phase 1	4	12-07-18	12-13-18							D	emo E	xisting F	Roadway	- I-64 EB M	iedian (A
64W.B3.DRDW.105	Demo Existing Roadway - I-64 WB Median (Area B-3) - Phase 1	4	12-07-18	12-13-18			+++				D	emo E	xisting F	Roadway	- I-64 WB N	<i>N</i> edian (
64E.B1.DRDW.105	Demo Existing Roadway - I-64 EB Median (Area B-1) - Phase 1		05-23-19										i ĭ	1 I I	Existing Ro	n n ì
64W.B1.DRDW.105	Demo Existing Roadway - I-64 WB Median (Area B-1) - Phase 1		05-23-19											Demo	Existing Ro	adway -
Roadway			11-19-18											1 1 1	07-30-19, 1	
64M.B3.ECUT.105	Earthwork - Mass Cut/Fill - I-64 Median (Area B-3) - Phase 1		11-19-18								i i Fai	thwor	k - Mas	1 1 1	- I-64 Media	1 1 1
64E.B3.RGRD.105	Earthwork - Fine Cut/Fill & Grading - I-64 EB Median (Area B-3) - Phase 1		12-14-18				++								& Grading	+
64W.B3.RGRD.105	Earthwork - Fine Cut/Fill & Grading - I-64 WB Median (Area B-3) - Phase		12-14-18								1 1	1 1	1 1	1 1 1	& Grading	1 1 1
64E.B3.STAB.105	Stabilize Subgrade - I-64 EB Median (Area B-3) - Phase 1		12-18-18								1 1	- I - I -	1 1	1 1 1	EB Mediar	
64W.B3.STAB.105	Stabilize Subgrade - I-64 WB Median (Area B-3) - Phase 1		12-18-18												WB Media	
64E.B3.BASE.105	Install Sub-Base - I-64 EB Median (Area B-3) - Phase 1		12-21-18								1 1	1 1	1 -		EB Median	
64W.B3.BASE.105	Install Sub-Base - I-64 WB Median (Area B-3) - Phase 1		12-21-18												WB Media	
64E.B3.OGDL.105	Install Open Graded Drainage Laver - I-64 EB Median (Area B-3) - Phase		01-15-19								1 1	1 1	1 1		Drainage La	
64W.B3.OGDL.105	Install Open Graded Drainage Layer - I-64 WB Median (Area B-3) - Phase		01-15-19								1 1		1 1	1 I I	Drainage La	т I I
64E.B3.ASBM.105	Install Base Mix Asphalt - I-64 EB Median (Area B-3) - Phase 1		01-18-19												halt - 1-64 E	
64W.B3.ASBM.105	Install Base Mix Asphalt - I-64 WB Median (Area B-3) - Phase 1		01-18-19								1. 1.	1. 1.		1 1 1	halt - I-64 W	
64E.B3.ASIM.105	Install Intermediate Mix Asphalt - I-64 EB Median (Area B-3) - Phase 1		04-02-19									1113		- i ii-	iediate Mix A	
 Remaining Level of Efformation 	rt Critical Remaining Work	State P	Project No.:	0064-965	229, F	P-101,	R-201, (C-501, B-	638, B-6	39, B-64	40,					
Actual Work	♦ ♦ Milestone		E	3-641, B-64	12, B-6	643, D-	609, D-6	610, D-61	1							
Remaining Work	Summary			Federal F	roiect	No · N	HPP-06	4-3 (498)								

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1	3) - Phase 1 sover - I-64 EB to WBMedian (Area B-1) - Phase 1																			
- i	Outside) - I-64 EB (Area B-3) - Phase 1 -3) - Phase 1 sover - I-64 EB to WB Median (Area B-1) - Phase 1 B to WB (Area B-1) - Phase 1																			
1	3) - Phase 1 sover - I-64 EB to WB Median (Area B-1) - Phase 1 3 to WB (Area B-1) - Phase 1																			
	sover - I-64 EB to WB Median (Area B-1) - Phase 1 3 to WB (Area B-1) - Phase 1 EB Median (Area B-3) - Phase 1																			
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rity ID	Activity Name	Original Star	: Finisl		Qtr 4	Qtr 1		20 Qtr 2)18 Qtr 3		Qtr 4	Qtr	1 [(20 2tr 2	19 Qtr 3	Qtr 4	4 Qtr 1
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64W.B3.ASIM.105	Install Intermediate Mix Asphalt - I-64 WB Median (Area B-3) - Phase		2-19 04-04								i i		i i i	i i	i i	- i - i - i	sphalt - I-6
64E.B3.ASGR.105	Install Asphalt at Guardrail - I-64 EB Median (Area B-3) - Phase 1	2 04-0	5-19 04-08	8-19										nstall A	sphalt a	it Guardr	ail - I-64 El
64W.B3.ASGR.105	Install Asphalt at Guardrail - I-64 WB Median (Area B-3) - Phase 1	2 04-0	5-19 04-08	8-19									I 1	nstall A	sphalt a	t Guardr	ail - I-64 W
64E.B3.GRAIL.105	Install Guardrail - I-64 EB Median (Area B-3) - Phase 1	2 04-0	9-19 04-11	1-19									I	Install 🤇	Guardra	il - I-64 E	B Median (
64W.B3.GRAIL.105	Install Guardrail - I-64 WB Median (Area B-3) - Phase 1	2 04-0	9-19 04-11	1-19										Install (Guardra	il - I-64 V	VB Median
64M.B1.ECUT.105	Earthwork - Mass Cut/Fill - I-64 Median (Area B-1) - Phase 1	5 04-2	3-19 04-30	0-19										Earth	work - I	Mass Cu	t/Fi≬ - I-64
64W.B1.SPLW.115	Install CIP Facing - I-64 WB Median (Area B-1) (2325+50 - 2346+00)	- Pł 25 04-2	3-19 06-06	6-19							1		: : 🕻	ir 🦳	nstall ¢l	P Facing	- I-64 WB
64E.B1.RGRD.105	Earthwork - Fine Cut/Fill & Grading - I-64 EB Median (Area B-1) - Pha	ase 1 4 05-3	1-19 06-06	6-19										ĒĒ	Earthwor	k - Fine	Cut/Fill & C
64W.B1.RGRD.105	Earthwork - Fine Cut/Fill & Grading - I-64 WB Median (Area B-1) - Ph	ase 4 05-3	1-19 06-06	6-19										ÞĘ	Earthwor	k - Fine	Cut/Fill & ¢
64E.B1.STAB.105	Stabilize Subgrade - I-64 EB Median (Area B-1) - Phase 1	4 06-0	4-19 06-11	1-19									+		Stabilize	Subgrad	le - I-64 EE
64W.B1.STAB.105	Stabilize Subgrade - I-64 WB Median (Area B-1) - Phase 1	4 06-0	4-19 06-11	1-19											Stabilize	Subgrad	le - I-64 W
64E.B1.BASE.105	Install Sub-Base - I-64 EB Median (Area B-1) - Phase 1	10 06-1	0-19 06-2	7-19											Install	Sub-Bas	e - 1-64 EB
64W.B1.BASE.105	Install Sub-Base - I-64 WB Median (Area B-1) - Phase 1	10 06-1	0-19 06-27	7-19			1				1			: 🔲	Install	Sub-Basi	e - I-64 WI
64E.B1.OGDL.105	Install Open Graded Drainage Layer - I-64 EB Median (Area B-1) - Pl	nase 2 06-2	8-19 07-0 ⁻	1-19										1	Install	Open G	raded Drai
64W.B1.OGDL.105	Install Open Graded Drainage Layer - I-64 WB Median (Area B-1) - F	has 2 06-2	8-19 07-0 ⁻	1-19									+		Install	Open G	raded Drai
64E.B1.ASBM.105	Install Base Mix Asphalt - I-64 EB Median (Area B-1) - Phase 1		2-19 07-12														lix Asphalt
64W.B1.ASBM.105	Install Base Mix Asphalt - I-64 WB Median (Area B-1) - Phase 1		2-19 07-1											i i	i i	- i - i - i	lix Asphalt
64E.B1.ASIM.105	Install Intermediate Mix Asphalt - I-64 EB Median (Area B-1) - Phase		5-19 07-10														ediate Mix/
64W.B1.ASIM.105	Install Intermediate Mix Asphalt - I-64 WB Median (Area B-1) - Phase		5-19 07-10												· · · · ·		ediate Mix
64E.B1.ASGR.105	Install Asphalt at Guardrail - I-64 EB Median (Area B-1) - Phase 1		9-19 07-23								+		+				llt at Guard
64W.B1.ASGR.105	Install Asphalt at Guardrail - I-64 WB Median (Area B-1) - Phase 1		9-19 07-23														lt at Guarc
64E.B1.GRAIL.105	Install Guardrail - I-64 EB Median (Area B-1) - Phase 1		6-19 07-30												1.1.1		drail - I-64
64W.B1.GRAIL.105	Install Guardrail - I-64 WB Median (Area B-1) - Phase 1		6-19 07-30														drail - I-64
			0-19 07-30 0-18 05-2											-	1 1	Storm Dr	
Storm Drainage	Install Starm Drain Ding & Structures - L 64 Madian (Area D 2) - Dhaa					÷					<u>∔</u> ↓				بالمستالية المسالية		
64M.B3.STORM.105	Install Storm Drain Pipe & Structures - I-64 Median (Area B-3) - Phas		0-18 12-00									installs	i i i	i i		i i i	I-64 Medi
64M.B1.STORM.105	Install Storm Drain Pipe & Structures - I-64 Median (Area B-1) - Phas		3-19 05-2 ⁻														Pipe & Stru
Systemwide			5-19 06-2								i i			1 1	1 1	19, Syste	ennwide
ITS			5-19 06-2	5-19											06-25-		
64.B2.ITS.105	Relocate ITS Fiber & Power from Existing EB Bridge to New WB Brid	•	5-19 05-20	0-19]					i	<u>.</u>		🔲 Re	locate I	TS Fiber	& Power fr
64.B2.ITS.115	Relocate ITS Fiber & Power from Existing WB Bridge to New WB Brid	lge 19 05-2	1-19 06-2	5-19											Reloca	ate IT\$ Fi	ber & Pow
Bridges		259 10-1	8-18 07-03	3-19						•	1 1				07-03	-19, Brid	ges
I-64 WBL Over Queen	s Creek (B-643) (Replacement)	259 10-1	8-18 07-03	3-19						•					07-03	-19, l÷64	WBL Ove
Preparation		51 10-1	8-18 12-07	7-18						-		12-07-	18, Pre	paration	n		
A3.B643.ABA.SOE.105	Install SOE - Abut A - B-643 - Stage 1	4 10-1	8-18 10-22	2-18							Insta	SOE	Abut A	- B-64	3 - Stag	le 1	
A3.B643.ABB.SOE.105	Install SOE - Abut B - B-643 - Stage 1		8-18 10-22								1 1		1 1 1		3 - Stag		
A3.B643.ABA.EXC.105	Excavate Abutment - Abut A - B-643 - Stage 1		2-18 10-20							- i -	i i	i i	i i i	i i	1 1	43 - Stag	e 1
A3.B643.ABB.EXC.105	Excavate Abutment - Abut B - B-643 - Stage 1		2-18 10-20								1 1	1 1	!!!!			43 - Stag	
A3.QCTR.SP1.SP7	Install Trestle for Bridge Construction Across Queens Creek (Spans		1-18 11-16								1	1			1.1.1		ross Que
A3.QCTR.SP22.SP28	Install Trestle for Bridge Construction Across Queens Creek (Spans		1-18 11-20								1 1	1 1	: : :	-			cross Que
A3.QCTR.SP8.SP14	Install Trestle for Bridge Construction Across Queens Creek (Spans		7-18 12-03								4 4				والمراجر والمراجر والمراجر		Across Qu
A3.QCTR.SP15.SP21	Install Trestle for Bridge Construction Across Queens Creek (Spans		1-18 12-0								i i	i i	i i i	i i	ī i i	i i i	Across Qu
	Install resile for bruge construction Across Queens of eek (opans		4-18 03-11									1 1	: : :		Foundat		
Foundation												1 1	: : :		1 1		
B2.B643.TST.PLE.AA	Drive Test Pie - Abut A - B-643 - Phase 1		4-18 12-00								i i	i i	i i i	i i	i i	13:- Phas	i i i i
B2.B643.TST.PLE.P01	Drive Test Pile - Pier 01 - B-643 - Phase 1		7-18 12-08								+		+			643 - Pha	
B2.B643.TST.PLE.AB	Drive Test Pie - Abut B - B-643 - Phase 1	2 12-0	8-18 12-10	0-18							<u>i</u> i	Drive	estPle	e - Abut	: B - B-16	43 - Pha	se 1
Remaining Level of Effor	t Critical Remaining Work	State Projec	t No.: 0064-	-965-22	29, P-10	01, R-20)1, C-5	501, B-	638, B-6	639, B	8-640,						
Actual Work	♦ Milestone					, D-609,											
Remaining Work	Summary				•	.: NHPP											
			Cont	tract ID	Numbe	er: C001	00000						1				

Proposal Date: September 14, 2017	,
2020 2021 1 Qtr 2 Qtr 3 Qtr 4 Qtr 1 Qtr 2 Qtr 3 ltr	1
MAMJJJASONDJFMAMJJJASO	_
54 WB Median (Area B-3) - Phase 1	
B Median (Area B-3) - Phase 1	
/B Median (Area B-3) - Phase 1	
(Area B-3) - Phase 1	
(Area B-3) - Phase 1	-
Median (Area B-1) - Phase 1	
Median (Area B-1) (2325+50 - 2346+00) - Phase 1	
Srading - I-64 EB Median (Area B-1) - Phase 1	-
Grading - I⊧64 WB Median (Area B⊦1) - Phase 1	
B Median (Area B-1) - Phase 1	-
B Median (Area B-1) - Phase 1	
Median (Area B-1) - Phase 1	
B Median (Area B-1) - Phase 1	
	-
nage Layer - -64 EB Median (Area B-1) - Phase 1 nage Layer - I-64 WB Median (Area B-1) - Phase 1	-
	-
- I-64 EB Median (Area B-1) - Phase 1	
- I-64 WB Median (Área B-1) - Phase 1	
Asphalt - I-64:EB;Median (Area B-1) - Phase 1	
Asphalt - I-64 WB Median (Area B-1) - Phase 1	-
drail - I+64 EB Median (Area B-1) - Phase 1	
drail - I+64 WB Median (Area B+1) - Phase 1	
EB Médian (Area B-1) - Phase 1	
WB Median (Area B-1) - Phase 1	
	j.
ian (Area Β-3) - Phase 1	
uctures - I+64 Median (Area B-1) - Phase 1	
rom Existing EB Bridge to New WB Bridge	
er from Existing WB Bridge to New WB Bridge	1
r Queens Creek (B-643) (Replacement)	
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and Crock (Shane 01 07) Stage 1	
ens Creek (Spans 01-07) - Stage 1 ens Creek (Spans 22-28) - Stage 1	
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eens Creek (Spans 08-14) - Stage 1	į
ueens Creek (Spans 15-21) - Stage 1	
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FULL SCHEDULE PRINT	
Page 24 of 50	
Print Date: 09-10-17	

KANSKA	Activity Name	Original Start	Finish		2	018			2019			2020				2021	
		Duration			Qtr 1 Qtr 2	Qtr 3			r 2 Qtr 3		Qtr 1 C	tr 2 Qtr			·1 Qt	tr 2	
B2.B643.TST.PLE.P02	Drive Test Pile - Pier 02 - B-643 - Phase 1	2 12-10-18	12 11 18		JFMAMJ	JASC			// J J J A S - Pier 02 - B-6	_		MJJJ	ASO	NDJF		<u>v j j</u>	JA
B2.B643.TST.PLE.P11	Drive Test Pie - Pier 11 - B-643 - Phase 1	2 12-11-18							- Pier 11 - B-6								
B2.B643.TST.PLE.P03	Drive Test Pie - Pier 03 - B-643 - Phase 1								- Pier 03 - B-6								
		2 12-13-18					1 1 1		1 1 1 1								
B2.B643.TST.PLE.P10	Drive Test Pile - Pier 10 - B-643 - Phase 1	2 12-14-18						- + +	- Pier 10 - B-6		+++						
B2.B643.TST.PLE.P04	Drive Test Pie - Pier 04 - B-643 - Phase 1	2 12-15-18							- Pier 04 - B-0								
B2.B643.TST.PLE.P09	Drive Test Pile - Pier 09 - B-643 - Phase 1	2 12-17-18							- Pier 09 - B-								
B2.B643.TST.PLE.P05	Drive Test Pile - Pier 05 - B-643 - Phase 1	2 12-18-18							e - Pier 05 - B-								į
B2.B643.RSTRK.005	Restrike Test Pile - Abut A & Piers 1 & 2 - B-643 - Phase 1	1 12-20-18					1 1 1		Pile - Abut A &	1 1 1 1		se 1					
B2.B643.TST.PLE.P08	Drive Test Pile - Pier 08 - B-643 - Phase 1	2 12-20-18	12-21-18					Drive Test Pile	- Pier 08 - B-	643 - Phase	1						
B2.B643.TST.PLE.P06	Drive Test Pie - Pier 06 - B-643 - Phase 1	2 12-21-18	12-22-18				11	Drive Test Pile	e - Pier 06 - B-	643 - Phase	1						
B2.B643.TST.PLE.P07	Drive Test Pile - Pier 07 - B-643 - Phase 1	2 12-22-18	12-26-18				0	Drive Test Pil	e - Pier 07 - B	-643 - Phase	e 1						
B2.B643.RSTRK.015	Restrike Test Pile - Abut B & Piers 10 & 11 - B-643 - Phase 1	1 12-26-18	12-26-18					Restrike Test	Pile - Abut B &	& Piers 10 &	11 - B-643 - I	Phase 1					
B2.B643.RSTRK.010	Restrike Test Pile - Piers 3 - 6 - B-643 - Phase 1	1 01-02-19	01-02-19					Restrike Tes	t Pile - Piers 3	- 6 - B-643	- Phase 1						
B2.B643.RSTRK.020	Restrike Test Pile - Piers 7 - 9 - B-643 - Phase 1	1 01-03-19	01-03-19					Restrike Tes	t Pile - Piers 7	- 9 - B-643	- Phase 1						
A3.B643.ABA.PLE.105	Drive Prod. Piles (Partial) - Abut A - B-643 - Stage 1	3 01-18-19	01-22-19					Drive Proc	I. Piles (Partia	I) - Abut A - E	3-643 - Stage	1			4		
A3.B643.P01.PLE.105	Drive Prod. Piles (Partial) - Pier 01 - B-643 - Stage 1	3 01-23-19	01-25-19					I Drive Proc	l. Pilės (Partia	l) - Pier 01 -	B-643 - Stage	e 1					
A3.B643.P02.PLE.105	Drive Prod. Piles (Partial) - Pier 02 - B-643 - Stage 1	3 01-26-19	01-29-19					Drive Pro	d. Pilės (Partia	al) - Pier 02 -	B-643 - \$tag	e 1					
A3.B643.P03.PLE.105	Drive Prod. Piles (Partial) - Pier 03 - B-643 - Stage 1	3 01-31-19	02-02-19					Drive Pro	d. Piles (Partia	al) - Pier 03	- B-643 - Stac	je 1					
A3.B643.P04.PLE.105	Drive Prod. Piles (Partial) - Pier 04 - B-643 - Stage 1	3 02-04-19	02-06-19					Drive Pro	od. Piles (Part	ial) - Pier 04	- B-643 - Sta	ae 1					
A3.B643.P05.PLE.105	Drive Prod. Piles (Partial) - Pier 05 - B-643 - Stage 1	3 02-07-19							od. Piles (Part		+++						
A3.B643.P06.PLE.105	Drive Prod. Piles (Partial) - Pier 06 - B-643 - Stage 1	3 02-11-19							od. Piles (Par	11 1 1							ł
A3.B643.P07.PLE.105	Drive Prod. Piles (Partial) - Pier 07 - B-643 - Stage 1	3 02-15-19							rod. Piles (Pa			Ŭ I					
A3.B643.P08.PLE.105	Drive Prod. Piles (Partial) - Pier 08 - B-643 - Stage 1	3 02-20-19							rod. Piles (Pa								į
A3.B643.P09.PLE.105		3 02-23-19							Prod. Piles (Pa	1 1 1 1	1 1 1 1						
	Drive Prod. Piles (Partial) - Pier 09 - B-643 - Stage 1		_					- + + +									
A3.B643.P10.PLE.105	Drive Prod. Piles (Partial) - Pier 10 - B-643 - Stage 1	3 02-28-19							Prod. Piles (Pa			Y 1 1					
A3.B643.P11.PLE.105	Drive Prod. Piles (Partial) - Pier 11 - B-643 - Stage 1	3 03-04-19							Prod. Piles (P	i či i		Y i					
A3.B643.ABB.PLE.105	Drive Prod. Piles (Partial) - Abut B - B-643 - Stage 1	3 03-08-19							Prod. Piles (F	- 1 - 1 - 1	t B - B-643 - 8	Stage 1					
Substructure		77 01-23-19	04-09-19					04	I-09-19, Subs	tructure							
A3.B643.ABA.ABUT.105	Construct Abutment (Partial) - Abut A - B-643 - Stage 1	10 01-23-19	02-04-19					Construc	t Abutment (P	artial) - Abut	A - B-643 - S	tage 1			j. j. j.		
A3.B643.P01.CAP.105	Construct Pier Cap (Partial) - Pier 01 - B-643 - Stage 1	6 01-26-19	02-02-19					Construc	t Pier Cap (Pa	artial) - Pier 0	1 - B-643 - S	tage 1					-
A3.B643.P02.CAP.105	Construct Pier Cap (Partial) - Pier 02 - B-643 - Stage 1	6 02-02-19	02-08-19					Construc	ct Pier Cap (P	artial) - Pier	02 - B+643 - S	Stage 1					
A3.B643.ABA.BKF.105	Backfill Abutment - Abut A - B-643 - Stage 1	2 02-05-19	02-07-19					Backfill A	butment - Abu	ut A - B-643 -	Stage 1						
A3.B643.P03.CAP.105	Construct Pier Cap (Partial) - Pier 03 - B-643 - Stage 1	6 02-08-19	02-15-19					Constru	ct Pier Cap (F	Partial) - Pier	03 - B-643 -	Stage 1					
A3.B643.P04.CAP.105	Construct Pier Cap (Partial) - Pier 04 - B-643 - Stage 1	6 02-15-19	02-22-19					Constr	uct Pier Cap (Partial) - Pie	r 04 - B-643 +	Stage 1					
A3.B643.P05.CAP.105	Construct Pier Cap (Partial) - Pier 05 - B-643 - Stage 1	6 02-22-19	03-01-19					Const	ruct Pier Cap	(Partial) - Pie	er 05 - B-643	- Stage 1					
A3.B643.P06.CAP.105	Construct Pier Cap (Partial) - Pier 06 - B-643 - Stage 1	6 03-01-19	03-08-19						truct Pier Cap	іт. т. іт. т.		1 1 1					
A3.B643.P07.CAP.105	Construct Pier Cap (Partial) - Pier 07 - B-643 - Stage 1	6 03-08-19	03-14-19						truct Pier Car	1 1 1 1							
A3.B643.ABB.ABUT.105		10 03-12-19							istruct Abutme	n i í i		i ĭ i	1				į
A3.B643.P08.CAP.105	Construct Pier Cap (Partial) - Pier 08 - B-643 - Stage 1	6 03-14-19							struct Pier Ca								
A3.B643.P09.CAP.105	Construct Pier Cap (Partial) - Pier 09 - B-643 - Stage 1	6 03-21-19							nstruct Pier Ca	والمكرك للمراج للكروات							
A3.B643.ABB.BKF.105	Backfill Abutment - Abut B - B-643 - Stage 1	2 03-25-19							kfill Abutment								
A3.B643.P10.CAP.105	Construct Pier Cap (Partial) - Pier 10 - B-643 - Stage 1	6 03-27-19							nstruct Pier C			1 1 1	1				
A3.B643.P10.CAP.105 A3.B643.P11.CAP.105	Construct Pier Cap (Partial) - Pier 10 - B-643 - Stage 1 Construct Pier Cap (Partial) - Pier 11 - B-643 - Stage 1	6 04-02-19							onstruct Pier C	nt ti nti	. i i i i		- i - i - i -				
		145 02-09-19										ບ+ວ - ຈເage					
Superstructure								- + +	07-03-								
A3.B643.SA.GRD.105	Install Conc. Girders (Partial) - Span a - B-643 - Stage 1	2 02-09-19	02-11-19					I Install C	onc. Girders (Partial) - Spa	an a - B-643	Stage 1					<u> </u>
Remaining Level of Effo	ort Critical Remaining Work	State Project No.	: 0064-965	229, P-1	01, R-201, C-501, B	-638, B-639, I	B-640,								FULL SC	CHEDU	JLE F
A atual \// ark	♦ Milestone		B-641. B-64	2, B-643	D-609, D-610, D-6	11										Page	je 25
Actual Work			- , -														

SKANSKA	Activity Name	· · · · · · · · · · · · · · · · · · ·	icity Improvements - Segment III	Proposal Date: September 14, 2019 2020 2021
		Original Start Finish Duration	Qtr 4 Qtr 1 Qtr 2 Qtr 3 Qtr 4 Qtr 1	Qtr 2 Qtr 3 Qtr 4 Qtr 1 Qtr 2 Qtr 3 Qtr 4 Qtr 1 Qtr 2 Qtr 3
A3.B643.SB.GRD.105	Install Conc. Girders (Partial) - Span b - B-643 - Stage 1	2 02-12-19 02-14-19		MAMJJJASONDJFMAMJJJASONDJFAMAMJJJA
	Install Conc. Girders (Partial) - Span b - B-643 - Stage 1 Install Conc. Girders (Partial) - Span c - B-643 - Stage 1	2 02-12-19 02-14-19		Install Conc. Girders (Partial) - Span b - B-643 - Stage 1
A3.B643.SC.GRD.105			-	Install Conc. Girder's (Partial) - Span c - B-643 - Stage 1
A3.B643.SA.DEK.105	Install Bridge Deck (Partial) - Span a - B-643 - Stage 1	13 02-21-19 03-14-19		Install Bridge Deck (Partial) - Span a - B-643 - Stage 1
A3.B643.SD.GRD.105	Install Conc. Girders (Partial) - Span d - B-643 - Stage 1	2 02-23-19 02-25-19	<u>-</u>	Install Conc. Girders (Partial) - Span d - B-643 - Stage 1
A3.B643.SE.GRD.105	Install Conc. Girders (Partial) - Span e - B-643 - Stage 1	2 03-02-19 03-04-19		Ihstall Conc. Girders (Partial) - Span e - B-643 - Stage 1
A3.B643.SB.DEK.105	Install Bridge Deck (Partial) - Span b - B-643 - Stage 1	10 03-08-19 03-21-19	_	Install Bridge Deck (Partial) - Span b - B-643 - Stage 1
A3.B643.SF.GRD.105	Install Conc. Girders (Partial) - Span f - B-643 - Stage 1	2 03-09-19 03-11-19		I Install Conc. Girders (Partial) - Span f - B-643 - Stage 1
A3.B643.SG.GRD.105	Install Conc. Girders (Partial) - Span g - B-643 - Stage 1	2 03-15-19 03-16-19		I Install Conc. Girders (Partial) - Spang - B-643 - Stage 1
A3.B643.SC.DEK.105	Install Bridge Deck (Partial) - Span c - B-643 - Stage 1	10 03-15-19 03-28-19		🔲 Install Bridge Deck (Partial) - Span c - B-643 - Stage 1
A3.B643.SA.CUR.105	Cure Bridge Deck - Span a - B-643 - Stage 1	7 03-15-19 03-21-19	\mathbf{P}	Cure Bridge Deck - Span a - B-643 - Stage 1
A3.B643.SH.GRD.105	Install Conc. Girders (Partial) - Span h - B-643 - Stage 1	2 03-22-19 03-23-19		I Install Conc. Girders (Partial) - Span h - B-643 - Stage 1
A3.B643.SD.DEK.105	Install Bridge Deck (Partial) - Span d - B-643 - Stage 1	10 03-22-19 04-04-19		📮 Install Bridge Deck (Partial) - Span d - B-643 - Stage 1
A3.B643.SB.CUR.105	Cure Bridge Deck - Span b - B-643 - Stage 1	7 03-22-19 03-28-19		II Cure Bridge Deck - Span b - B-643 - Stage 1
A3.B643.SA.BAR.105	Install Parapet - Span a - B-643 - Stage 1	2 03-22-19 03-23-19		I Install Parapet - Span a - B-643 - Stage 1
A3.B643.ABA.APR.105	Install Backwall, Joints, and Approach Slab (Partial) - Abut A - B-643 - Sta	15 03-22-19 04-09-19		Install Backwall, Joints, and Approach Slab (Partial) - Abut A - B-643 - Stage 1
A3.B643.SI.GRD.105	Install Conc. Girders (Partial) - Span i - B-643 - Stage 1	2 03-28-19 03-29-19		Install Conc. Girders (Partial) - Span i - B-643 - Stage 1
A3.B643.SE.DEK.105	Install Bridge Deck (Partial) - Span e - B-643 - Stage 1	10 03-29-19 04-12-19		🔲 ˈlnstall Bridge Deck (Partial) - Span e - B-643 - Stage 1
A3.B643.SC.CUR.105	Cure Bridge Deck - Span c - B-643 - Stage 1	7 03-29-19 04-04-19		Cure Bridge Deck - Span c - B-643 - Stage 1
A3.B643.SB.BAR.105	Install Parapet - Span b - B-643 - Stage 1	1 03-29-19 03-29-19		(Install Parapet - Span b - B-643 - Stage 1
A3.B643.SJ.GRD.105	Install Conc. Girders (Partial) - Span j - B-643 - Stage 1	2 04-04-19 04-05-19		I Install Conc. Girders (Partial) - Span j- B-643 - Stage 1
A3.B643.SF.DEK.105	Install Bridge Deck (Partial) - Span f - B-643 - Stage 1	10 04-05-19 04-19-19		□ Install Bridge Deck (Partial) - Span f - B+643 - Stage 1
A3.B643.SD.CUR.105	Cure Bridge Deck - Span d - B-643 - Stage 1	7 04-05-19 04-11-19		Cure Bridge Deck - Span d - B-643 - Stage 1
A3.B643.SC.BAR.105	Install Parapet - Span c - B-643 - Stage 1	1 04-05-19 04-05-19		Install Parapet - Span c - B-643 - Stage 1
A3.B643.SK.GRD.105	Install Conc. Girders (Partial) - Span k - B-643 - Stage 1	2 04-10-19 04-11-19		I Install Conc. Girders (Partial) - Span k - B-643 - Stage 1
A3.B643.ABA.BAR.105	Install Approach Parapet - Abut A - B-643 - Stage 1	1 04-10-19 04-10-19		I Install Approach Parapet - Abut A - B-643 - Stage 1
A3.B643.SL.GRD.105	Install Conc. Girders (Partial) - Span I - B-643 - Stage 1	2 04-12-19 04-13-19		I Install Conc. Girders (Partial) - Span I - B-643 - Stage 1
A3.B643.SD.BAR.105	Install Parapet - Span d - B-643 - Stage 1	1 04-12-19 04-12-19		I Install Parapet - Span d - B-643 - Stage 1
A3.B643.SG.DEK.105	Install Bridge Deck (Partial) - Span g - B-643 - Stage 1	10 04-12-19 04-26-19		Install Bridge Deck (Partial) - Span g - B-643 - Stage 1
A3.B643.SE.CUR.105	Cure Bridge Deck - Span e - B-643 - Stage 1	7 04-13-19 04-19-19		I Cure Bridge Deck - Span e - B-643 - Stage 1
A3.B643.SH.DEK.105	Install Bridge Deck (Partial) - Span h - B-643 - Stage 1	10 04-20-19 05-03-19		
A3.B643.SF.CUR.105		7 04-20-19 04-26-19		 Install Bridge Deck (Partial) - Span h - B-643 - Stage 1 Cure Bridge Deck - Span f - B-643 - Stage 1
	Cure Bridge Deck - Span f - B-643 - Stage 1			
A3.B643.SE.BAR.105	Install Parapet - Span e - B-643 - Stage 1	1 04-20-19 04-20-19 10 04-27-19 05-11-19		I Install Parapet - Span e - B-643 - Stage 1
A3.B643.SI.DEK.105	Install Bridge Deck (Partial) - Span i - B-643 - Stage 1			□ Install Bridge Deck (Partial) - Span i - B-643 - Stage 1
A3.B643.SG.CUR.105	Cure Bridge Deck - Span g - B-643 - Stage 1	7 04-27-19 05-03-19		Cure Bridge Deck - Span g - B-643 - Stage 1
A3.B643.SF.BAR.105	Install Parapet - Span f - B-643 - Stage 1	1 04-27-19 04-27-19		l Install Parapet - Span f - B-643 - Stage 1
A3.B643.SH.CUR.105	Cure Bridge Deck - Span h - B-643 - Stage 1	7 05-04-19 05-10-19		I Cure Bridge Deck - Span h - B⊧643 - Stage 1
A3.B643.SG.BAR.105	Install Parapet - Span g - B-643 - Stage 1	1 05-04-19 05-04-19		I Install Parapet - Span g - B-643 - Stage 1
A3.B643.SJ.DEK.105	Install Bridge Deck (Partial) - Span j - B-643 - Stage 1	10 05-06-19 05-18-19		□ Install Bridge Deck (Partial) - Span j - B-643 - Stage 1
A3.B643.SH.BAR.105	Install Parapet - Span h - B-643 - Stage 1	1 05-11-19 05-11-19		I İnstall Parapet - Şpan h - B-643 - Ştage 1
A3.B643.SI.CUR.105	Cure Bridge Deck - Span i - B-643 - Stage 1	7 05-12-19 05-18-19		Cure Bridge Deck - Span i - B-643 - Stage 1
A3.B643.SK.DEK.105	Install Bridge Deck (Partial) - Span k - B-643 - Stage 1	10 05-13-19 05-25-19		□ Install Bridge Deck (Partial) - Span k - B-643 - Stage 1
A3.B643.SJ.CUR.105	Cure Bridge Deck - Span j - B-643 - Stage 1	7 05-19-19 05-25-19	2	I Cure Bridge Deck - Span j - B-643 - Stage 1
A3.B643.SL.DEK.105	Install Bridge Deck (Partial) - Span I - B-643 - Stage 1	10 05-20-19 06-03-19		Install Bridge Deck (Partial) - Span I - B-643 - Stage 1
A3.B643.SI.BAR.105	Install Parapet - Span i - B-643 - Stage 1	1 05-20-19 05-20-19		I Install Parapet - Span i - B-643 - Stage 1
A3.B643.SK.CUR.105	Cure Bridge Deck - Span k - B-643 - Stage 1	7 05-26-19 06-01-19	$\mathbf{p} = \begin{bmatrix} \mathbf{p} \\ \mathbf{p} \end{bmatrix} \begin{bmatrix} \mathbf{p} \\ \mathbf{p} \end{bmatrix} \begin{bmatrix} \mathbf{p} \\ \mathbf{p} \end{bmatrix} \begin{bmatrix} \mathbf{p} \\ \mathbf{p} \end{bmatrix} \begin{bmatrix} \mathbf{p} \\ \mathbf{p} \end{bmatrix} \begin{bmatrix} \mathbf{p} \\ \mathbf{p} \end{bmatrix} \begin{bmatrix} \mathbf{p} \\ \mathbf{p} \end{bmatrix} \begin{bmatrix} \mathbf{p} \\ \mathbf{p} \end{bmatrix} \begin{bmatrix} \mathbf{p} \\ \mathbf{p} \end{bmatrix} \begin{bmatrix} \mathbf{p} \\ \mathbf{p} \end{bmatrix} \begin{bmatrix} \mathbf{p} \\ \mathbf{p} \end{bmatrix} \begin{bmatrix} \mathbf{p} \\ \mathbf{p} \end{bmatrix} \begin{bmatrix} \mathbf{p} \\ \mathbf{p} \end{bmatrix} \begin{bmatrix} \mathbf{p} \\ \mathbf{p} \end{bmatrix} \begin{bmatrix} \mathbf{p} \\ \mathbf{p} \end{bmatrix} \begin{bmatrix} \mathbf{p} \\ \mathbf{p} \end{bmatrix} \begin{bmatrix} 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Remaining Level of Effo	ort Critical Remaining Work	State Project No.: 0064-965	5-229, P-101, R-201, C-501, B-638, B-639, B-640,	FULL SCHEDULE P
Actual Work	 ♦ Milestone 	B-641, B-6	642, B-643, D-609, D-610, D-611	Page 26
Remaining Work	Summary	Federal I	Project No.: NHPP-064-3 (498)	Print Date: 09-1
-		Contract	t ID Number: C00106689DB97	

SKANSKA	Activity Name	Original Start	I-64 Capa	2018	2019 2020 2021
		Duration	1 mistr	Qtr 4 Qtr 1 Qtr 2 Qtr 3 Qtr 4 Qtr 1	Qtr 2 Qtr 3 Qtr 4 Qtr 1 Qtr 2 Qtr 3 Qtr 4 Qtr 1 Qtr 2 Qtr 3
42 DC42 C L DAD 405	Install Devenat Cran : D.C.12. Stage 1	1 05 20 4	0 05 00 10	O N D J F M A M J J A S O N D J F	MAMJJJASONDJFMAMJJJASONDJFAMAMJJJA
A3.B643.SJ.BAR.105	Install Parapet - Span j - B-643 - Stage 1		9 05-28-19		I, Install Parapet - Span j - B-643 - Stage 1
A3.B643.SK.BAR.105	Install Parapet - Span k - B-643 - Stage 1		9 06-03-19		Install Parapet - Span k - B-643 - Stage 1
A3.B643.SL.CUR.105	Cure Bridge Deck - Span I - B-643 - Stage 1		9 06-10-19		I Cure Bridge Deck - Span I + B-643 - Stage 1
A3.B643.SL.BAR.105	Install Parapet - Span I - B-643 - Stage 1		9 06-11-19	······································	I Install Parapet - Span I - B-643 - Stage 1
A3.B643.ABB.APR.105	Install Backwall, Joints, and Approach Slab (Partial) - Abut B - B-643				□ Install Backwall, Joints, and Approach Slab (Partial) - Abut B - B-643 - Stage 1
A3.B643.SAQ.GRV.105	Grind & Groove Bridge Deck (Partial) - Spans a-I - B-643 - Stage 1		9 07-03-19		Grind & Groove Bridge Deck (Partial) - Spans a I - B-643 - Stage 1
A3.B643.ABB.BAR.105	Install Approach Parapet - Abut B - B-643 - Stage 1		9 07-01-19		Install Approach Parapet - Abut B - B-643 - Stage 1
_Area C		589 09-10-1			▼ 04-20-20, Area C
Roadway		589 09-10-1	8 04-20-20		▼ 04-20-20, Roadway
Preparation		31 10-26-1	8 12-27-18	12-27	7-18, Preparation
64.C3.ESC.105	Install E&SC Devices - I-64 (Area C-3) - Phase 1	8 10-26-1	8 11-06-18	Install E&So	C Devices - I+64 (Area C-3) - Phase 1
64M.C3.CLR.105	Clear & Grub Trees - I-64 Median (Area C-3) - Phase 1	8 11-01-1	8 11-13-18	🗖 Clear & Gr	rub Trees - I-64 Median (Area C-3) - Phase 1
64.C1.ESC.105	Install E&SC Devices - I-64 (Area C-1) - Phase 1	8 12-03-1	8 12-17-18	□ Install	E&SC Devices - I-64 (Area C-1) - Phase 1
64M.C1.CLR.105	Clear & Grub Trees - I-64 Median (Area C-1) - Phase 1	8 12-10-1	8 12-27-18	Clear	& Grub Trees - I-64 Median (Area C-1) - Phase 1
Maintenance of Traffic		589 09-10-1	8 04-20-20		▼ 04-20-20, Maintenance of Traffic
64W.C3.TPAV.105	Strengthen Outside Shoulder - I-64 WB Outside (Area C-3) - Phase	1 3 09-10-1	8 09-13-18	Strenothen Outsi	de Shoulder - I-64 WB Outside (Area C-3) - Phase 1
C2.LHD.TBAR.1A05	Install Temp. Traffic Barrier - Lakeshead Dr - Under I-64 Bridges - F		8 09-11-18		fic Barrier - Lakeshead Dr - Under I-64 Bridges - Phase 1A
C2.COL.TBARR.1A05	Install Temp. Traffic Barrier - Colonial Parkway - Under I-64 Bridges		8 09-11-18		fic Barrier - Colonial Parkway - Under I-64 Bridges - Phase 1A
64W.C1.TPAV.105	Strengthen Outside Shoulder - I-64 WB Outside (Area C-1) - Phase		8 09-21-18		ide Shoulderi - I-64 WB Outside (Area C-1) - Phase 1
64W.C3.TSTR.105	Eradicate & Install Temp. Striping (Shifting Traffic to Outside) - I-64 V		8 09-17-18	↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	all Temp. Striping.(Shifting Traffic to Outside), - I-64 WB (Area;C-3) - Phase:1
64W.C1.TSTR.105	Eradicate & Install Temp. Striping (Shifting Traffic to Outside) - I-64 V		8 09-24-18		all Temp. Striping (Shifting Traffic to Outside) - I-64 WB (Area C-1) - Phase 1
C2.LHD.TRAFF.1A05	Shift Traffic to Flagged Single Lane on East Side - Lakeshead Dr - U		8 11-01-18		to Flagged Single Lane on East Side - Lakeshead Dr - Under I-64 Bridges - Phase 1A
64E.C1.TPAV.105	Strengthen Outside Shoulder - I-64 EB Outside (Area C-1) - Phase		8 11-19-18		n Outside Shoulder - I-64 EB Outside (Area C-1) - Phase 1
64E.C1.TSTR.105	Eradicate & Install Temp. Striping (Shifting Traffic to Outside) - I-64 E		8 11-20-18		& Install Temp. Striping (Shifting Traffic to Outside) - I-64 EB (Area C-1) - Phase 1
64E.C3.TPAV.105			8 11-20-18	↓ <mark>↓</mark> ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	
	Strengthen Outside Shoulder - I-64 EB Outside (Area C-3) - Phase				en Outside Shoulder, - I+64 EB Outside (Area C+3) + Phase 1
64E.C3.TSTR.105	Eradicate & Install Temp. Striping (Shifting Traffic to Outside) - I-64 E		8 11-29-18		e & Install Temp. Striping (\$hifting Traffic to Outside) - I-64 EB (Area C-3) - Phase 1
64W.C3.TBAR.105	Install Temp. Barrier Wall - I-64 WB Median (Area C-3) - Phase 1		8 12-03-18		emp. Barrier Wall - I+64 WB Median (Area C-3);- Phase 1
64E.C3.TBAR.105	Install Temp. Barrier Wall - I-64 EB Median (Area C-3) - Phase 1		8 12-04-18		emp. Barrier Wall - I-64 EB Median (Area C-3) - Phase 1
C2.COL.TRAF.1B05	Shift Traffic to Flagged Single Lane on West Side - Colonial Parkway		9 03-13-19	· · · · · · · · · · · · · · · · · ·	I Shift Traffic to Flagged Single Lane on West Side - Colonial Parkway - Under I-64 Bridges - Phase
C2.LHD.TRAFF.1B05	Shift Flagged Traffic to West Side - Lakeshead Dr - Under I-64 Bridg	-	9 03-15-19		I Shift Flagged Traffic to West Side - Lakeshead Dr - Under I-64 Bridges - Phase 1B
C2.COL.DRDWY.1B05	Demo Portion of Existing Colonial Parkway - B-639 - East End - Pha		9 03-15-19		I Demo Portion of Existing Colonial Parkway - B-639 - East End - Phase 1B
C2.COL.DRDWY.1B10	Demo Portion of Existing Colonial Parkway - B-640 - East End - Pha		9 03-15-19		I Demo Portion of Existing Colonial Parkway - B-640 - East End - Phase 1B
C2.COL.RDWY.1B05	Reconstruct Portion of Colonial Parkway - B-639 - East End - Phase		9 04-02-19		Reconstruct Portion of Colonial Parkway - B-639 - East End - Phase 1B
C2.COL.RDWY.1B10	Reconstruct Portion of Colonial Parkway - B-640 - East End - Phase		9 04-02-19		Reconstruct Portion of Colonial Parkway - B-640 - East End - Phase 1B
C2.COL.TRAF.1C05	Shift Flagged Traffic to East Side - Colonial Parkway - Under I-64 Br	idges 2 04-04-1	9 04-05-19		I Shift Flagged Traffic to East Side - Colonial Parkway - Under I+64 Bridges - Phase 1C
C2.COL.DRDWY.1C05	Demo Portion of Existing Colonial Parkway - B-639 - West End - Pha	ase 1 2 04-08-1	9 04-09-19		I Demo Portion of Existing Colonial Parkway - B-639 - West End - Phase 1C
C2.COL.DRDWY.1C10	Demo Portion of Existing Colonial Parkway - B-640 - West End - Pha		9 04-09-19		I Demo Portion of Existing Colonial Parkway - B-640 - West End - Phase 1C
C2.COL.RDWY.1C05	Reconstruct Portion of Colonial Parkway - B-639 - West End - Phas	e 1C 5 04-22-1	9 04-29-19		I Reconstruct Portion of Colonial Parkway - B-639 - West End - Phase 1C
C2.COL.RDWY.1C10	Reconstruct Portion of Colonial Parkway - B-640 - West End - Phas	e 1C 5 04-22-1	9 04-29-19		Reconstruct Portion of Colonial Parkway - B-640 - West End - Phase 1C
C2.LHD.TRAFF.1C05	Shift Traffic to Two Lane Configuration - Lakeshead Dr - Under I-64	Bridg 2 05-16-1	9 05-17-19		I Shift Traffic to Two Lane Configuration - Lakeshead Dr - Under I+64 Bridges - Phase 1C
64E.C3.RBAR.105	Remove Temp. Barrier Wall - I-64 EB Median (Area C-3) - Phase 1	3 05-20-1	9 05-23-19		I Remove Temp. Barrier Wall - I-64 EB Median (Area C-3) - Phase 1
64W.C3.RBAR.105	Remove Temp. Barrier Wall - I-64 WB Median (Area C-3) - Phase 1	3 05-21-1	9 05-24-19		I Remove Temp. Batrier Wall - I-64 WB Median (Area C-3) - Phase 1
64E.C1.TBAR.105	Install Temp. Barrier Wall - I-64 EB Median (Area C-1) - Phase 1	3 05-24-1	9 05-29-19	1	0] Install Temp. Barrier Wall- I-64 EB Median (Area C-1) - Phase 1
64W.C1.TBAR.105	Install Temp. Barrier Wall - I-64 WB Median (Area C-1) - Phase 1	3 05-28-1	9 05-30-19		Install Temp. Barrier Wall- I-64 WB Mediah (Area C-1) - Phase 1
C2.LHD.RBAR.1C05	Remove Temp. Barrier Wall & Shift Traffic to Final Config Lakeshe	ad Di 2 11-21-1	9 11-22-19		I Remove Temp Barrier Wall & Shift Traffic to Final Config Lakeshead
Remaining Level of Effor	t Critical Remaining Work	State Project No		-229, P-101, R-201, C-501, B-638, B-639, B-640,	FULL SCHEDULE P
Actual Work	♦ Milestone			42, B-643, D-609, D-610, D-611	Page 27
Remaining Work	Summary		Federal	Project No.: NHPP-064-3 (498)	Print Date: 09-1

SKANSKA tivity ID	Activity Name	Original Start Finish		provements - Segment III 2018	Proposal Date: September 14
		Duration	Qti	4 Qtr 1 Qtr 2 Qtr 3 Qtr 4	Qtr 1 Qtr 2 Qtr 3 Qtr 4 Qtr 1 Qtr 2 Qtr 3 Qtr 4 Qtr 1 Qtr 2 Qtr
C2.COL.TRAF.1D10	Shift Traffic to Final Configuration - Colonial Parkway - Under I-64 Bridge	25 3 11-22-19 11-26-1			J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A I; Shift Traffic to Final Configuration - Colonial Parkway; - Under I-64 Bri
64E.C1.RBAR.105	Remove Temp. Barrier Wall - I-64 EB Median (Area C-1) - Phase 1	3 12-03-19 12-06-1			Remove Temp. Barrier Wall- I-64 EB Median (Area C-1) - Phase 1
64W.C1.RBAR.105	Remove Temp. Barrier Wall - I-64 WB Median (Area C-1) - Phase 1	3 04-16-20 04-20-2			I Remove Temp. Barrier Wall - 1-64 WB Median (Area
Demolition		59 03-25-19 06-27-	-		▼ 06-27-19. Demolition
64E.C3.DRDW.105	Demo Existing Roadway - I-64 EB Median (Area C-3) - Phase 1	5 03-25-19 03-29-7	19		I Demo Existing Roadway - I-64 EB Median (Area C-3) - Phase 1
64W.C3.DRDW.105	Demo Existing Roadway - I-64 WB Median (Area C-3) - Phase 1	5 03-25-19 03-29-7			Demo Existing Roadway - I-64 WB Median (Area'C-3) - Phase 1
64E.C1.DRDW.105	Demo Existing Roadway - I-64 EB Median (Area C-1) - Phase 1	5 06-21-19 06-27-			Demo Existing Roadway - I-64 EB Median (Area C-1) - Phase 1
64W.C1.DRDW.105	Demo Existing Roadway - I-64 WB Median (Area C-1) - Phase 1	5 06-21-19 06-27-2			Demo Existing Roadway - I-64 WB Median (Area C-1) - Phase 1
Roadway		496 12-06-18 04-14-2			v 04-14-20, Roadway
64M.C3.ECUT.105	Earthwork - Mass Cut/Fill - I-64 Median (Area C-3) - Phase 1	28 12-06-18 03-18-		······································	Earthwork - Mass Cut/Fill + I-64 Median (Area C-3) - Phase 1
64E.C3.RGRD.105	Earthwork - Fine Cut/Fill & Grading - I-64 EB Median (Area C-3) - Phase		_		Earthwork - Fine Cut/Fill & Grading - I-64 EB Median (Area C-3) - Phase 1
64W.C3.RGRD.105	Earthwork - Fine Cut/Fill & Grading - I-64 WB Median (Area C-3) - Phase				 Earthwork - Fine Cut/Fill & Grading - I-64 WB Median (Area C-3) - Phase 1
64E.C3.STAB.105	Stabilize Subgrade - I-64 EB Median (Area C-3) - Phase 1	5 04-02-19 04-11-1	_		 Stabilize Subgrade - I-64 EB Median (Area C-3); - Phase 1;
64W.C3.STAB.105	Stabilize Subgrade - I-64 WB Median (Area C-3) - Phase 1	5 04-04-19 04-12-1			 Stabilize Subgrade - I-64 WB Median (Area C-3) - Phase 1
64E.C3.BASE.105	Install Sub-Base - I-64 EB Median (Area C-3) - Phase 1	9 04-09-19 04-25-			□ Install Sub-Base - I-64 EB Median (Area C+3) + Phase 1
64W.C3.BASE.105	Install Sub-Base - I-64 WB Median (Area C-3) - Phase 1	9 04-11-19 04-26-	_		□ Install Sub-Base - I-64 WB Median (Area C-3) - Phase 1
64E.C3.OGDL.105	Install Open Graded Drainage Layer - I-64 EB Median (Area C-3) - Phase				Install Open Graded Drainage Layer - I-64 EB Median (Area C+3) - Phase 1
64W.C3.OGDL.105	Install Open Graded Drainage Layer - I-64 WB Median (Area C-3) - Pha				Install Open Graded Drainage Layer - I-64 WB Median (Area C-3) - Phase 1
64E.C3.ASBM.105	Install Base Mix Asphalt - I-64 EB Median (Area C-3) - Phase 1	4 04-30-19 05-06-1			I Install Base Mix Asphalt - I-64 EB Median (Area C-3) - Phase 1
64W.C3.ASBM.105	Install Base Mix Asphalt - I-64 WB Median (Area C-3) - Phase 1	4 05-02-19 05-07-2			 Install Base Mix Asphalt - I-64 WB Median (Area C-3) - Phase 1
64E.C3.ASIM.105	Install Intermediate Mix Asphalt - I-64 KB Median (Area C-3) - Phase 1	2 05-07-19 05-09-1			I Install Intermediate Mix Asphalt - I-64 EB Median (Area C-3) - Phase 1
64W.C3.ASIM.105	Install Intermediate Mix Asphalt - I-64 WB Median (Area C-3) - Phase 1	2 05-09-19 05-10-1			Install Intermediate Mix Asphalt - I-64 WB Mediah (Area C-3) - Phase 1
64E.C3.ASGR.105	Install Asphalt at Guardrail - I-64 EB Median (Area C-3) - Phase 1	2 05-10-19 05-13-			 Install Asphalt at Guardrail + I-64 EB Median (Area C-3) - Phase 1
64W.C3.ASGR.105	Install Asphalt at Guardrail - I-64 WB Median (Area C-3) - Phase 1	2 05-13-19 05-14-			I Install Asphalt at Guardrail - I-64 WB Median (Area C-3) - Phase 1
64E.C3.GRAIL.105	Install Guardrail - I-64 EB Median (Area C-3) - Phase 1	2 05-14-19 05-17-1		······································	I Install Guardrail - I-64 EB Median (Area C-3) - Phase 1
64W.C3.GRAIL.105	Install Guardrail - I-64 WB Median (Area C-3) - Phase 1	2 05-17-19 05-20-1			I Install Guardrail - I-64 WB Median (Area C-3) - Phase 1
64M.C1.ECUT.105	Earthwork - Mass Cut/Fill - I-64 Median (Area C-1) - Phase 1	7 05-31-19 06-14-			 Earthwork - Mas's Cut/Fill - I-64 Median (Area C-1) - Phase 1
64E.C1.RGRD.105	Earthwork - Fine Cut/Fill & Grading - I-64 EB Median (Area C-1) - Phase		_		Earthwork - Fine Cut/Fill & Grading - I-64 EB Median (Area C-1) - Phase 1
64W.C1.RGRD.105	Earthwork - Fine Cut/Fill & Grading - I-64 WB Median (Area C-1) - Phase		_		Earthwork - Fine Cut/Fill & Grading - I-64 WB Median (Area C-1) - Phase 1
64E.C1.STAB.105	Stabilize Subgrade - I-64 EB Median (Area C-1) - Phase 1	5 07-09-19 07-18-			Stabilize Subgrade - I-64 EB Median (Area C-1) - Phase 1
64W.C1.STAB.105	Stabilize Subgrade - I-64 WB Median (Area C-1) - Phase 1	5 07-09-19 07-18-			Stabilize Subgrade - I-64 WB Median (Area C-1) - Phase 1
64E.C1.BARR.105	Install Permanent Barrier Wall - I-64 EB Median (Area C-1) - Phase 1	3 07-19-19 07-23-			I Install Permanent Barrier Wall - I-64 EB Median (Area C-1) - Phase 1
64W.C1.BARR.105	Install Permanent Barrier Wall - I-64 WB Median (Area C-1) - Phase 1	3 07-19-19 07-23-			I Install Permanent Barrier Wall - I+64 W B Median (Areia C+1) - Phase 1
64E.C1.BASE.105	Install Sub-Base - I-64 EB Median (Area C-1) - Phase 1	9 08-15-19 08-30-			☐ Install Sub-Base - 1-64 EB Median (Area C-1) - Phase 1
64E.C1.OGDL.105	Install Open Graded Drainage Layer - I-64 EB Median (Area C-1) - Phase				 Install Open Graded Drainage Layer -I-64 EB Median (Area C-1) - Phase 1
64E.C1.ASBM.105	Install Base Mix Asphalt - I-64 EB Median (Area C-1) - Phase 1	4 09-06-19 09-12-7			 Install Base Mix Asphalt; - I-64 EB Median (Area C-1) - Phase 1
64E.C1.ASIM.105	Install Intermediate Mix Asphalt - I-64 EB Median (Area C-1) - Phase 1	2 09-16-19 09-17-			Install Intermediate Mix Asphalt - I-64 EB Median (Area C-1) - Phase 1
64E.C1.ASGR.105	Install Asphalt at Guardrail - I-64 EB Median (Area C-1) - Phase 1	2 09-19-19 09-20-7			I Install Asphalt at Guardrail - I-64 EB Median (Area C-1) - Phase 1
64E.C1.GRAIL.105	Install Guardrail - I-64 EB Median (Area C-1) - Phase 1	2 09-23-19 09-24-1			I Install Guardrail - I-64 EB Median (Area C-1) - Phase 1
64W.C1.BASE.105	Install Sub-Base - I-64 WB Median (Area C-1) - Phase 1	9 11-15-19 12-05-			□ Install Sub-Base - I-64 WB Median (Area C-1) - Phase 1
64W.C1.OGDL.105	Install Open Graded Drainage Laver - I-64 WB Median (Area C-1) - Pha				I Install Open Graded Drainage Layer - I-64 WB Median (Area C-1) -
64W.C1.ASBM.105	Install Base Mix Asphalt - I-64 WB Median (Area C-1) - Phase 1	4 12-13-19 12-19-			 Install Base Mix Asphalt - I-64 WB Median (Area C-1) - Phase 1
64W.C1.ASIM.105	Install Intermediate Mix Asphalt - I-64 WB Median (Area C-1) - Phase 1	2 04-02-20 04-07-2			Install Intermediate Mix Asphalt - I-64 WB Median (Are
64W.C1.ASGR.105	Install Asphalt at Guardrail - I-64 WB Median (Area C-1) - Phase 1	2 04-09-20 04-10-2			I Install Asphalt at Guardrail - I-64 WB Median (Area C-
64W.C1.GRAIL.105	Install Guardrail - I-64 WB Median (Area C-1) - Phase 1	2 04-13-20 04-14-2			I Install Guardrail - I-64 WB Median (Area C-1) - Phase
Remaining Level of Effor	rt Critical Remaining Work	State Project No - 0064 00	35_220	P-101, R-201, C-501, B-638, B-639, B-640,	FULL SCHEDULE F
Actual Work		•		543, D-609, D-610, D-611	Page 28
Remaining Work		,	,	No.: NHPP-064-3 (498)	Print Date: 09
	Summary			mber: C00106689DB97	

KANSKA	Activity Name	Original		I-64 Capac	ing in pro-		U U	018			2019
ly ID		Original Duration	Sian	Finish	Qtr 4	Qtr 1	Qtr 2	Qtr 3			Qtr 2 Qtr 3 Qtr 4 Qt
			00.00.40	00.00.40	OND	JFM	AMJ	JA	BONC	JFI	
Storm Drainage				06-20-19							▼ 06-20-19, Storm Drainag
64M.C3.STORM.105	Install Storm Drain Pipe & Structures - I-64 Median (Area C-3) - Pha			03-22-19							Install Storm Drain Pipe & Structur
64M.C1.STORM.105	Install Storm Drain Pipe & Structures - I-64 Median (Area C-1) - Pha			06-20-19							Install Storm Drain Pipe
Bridges				12-09-19							
I-64 EBL Over Col	onial Pkwy (B-639) (Rehab/Widen)	295	11-13-18	09-03-19							▼ 09-03-19, I-64 E
Preparation		15	11-13-18	11-27-18						11-27-18,	Preparation
A3.B639.TSOE.1A05	Install Temp SOE - B-639 - East End - Stage 1A	4	11-13-18	11-19-18					0 Ir	stall Tem	p SOE - B-639 - East End - Stage 1A
A3.B639.TSOE.1A10	Install Temp SOE - B-639 - West End - Stage 1A	4	11-13-18	11-19-18					0 Ir	stall Tem	p SOE - B-639 - West End - Stage 14
A3.B639.EFDN.1A05	5 Excavate for Foundation - B-639 - East End - Stage 1A	3	11-20-18	11-27-18					DE	Excavate	for Foundation - B-639 - East End - S
A3.B639.EFDN.1A10	Excavate for Foundation - B-639 - West End - Stage 1A	3	11-20-18	11-27-18					D E	Excavate	for Foundation + B-639 - West End -
Demolition		119	11-13-18	06-03-19					-		06-03-19, Demolition
A3.B639.DFAS.1A05	Remove Existing Brick Fascia - B-639 - Median Face - Stage 1A	10	11-13-18	11-30-18						Remove I	Existing Brick Fascia - B-639 - Mediai
A3.B639.DPAR.1A05	Demo Existing Bridge Parapet & Top of Spandrel Wall - B-639 - Med	ian Si 3	05-30-19	06-03-19							Demo Existing Bridge Para
Foundation		138	12-03-18	04-19-19							■ 04-19-19, Foundation
A3.B639.TPLE.1A05	Install Test Pile - B-639 - West End - Phase 1	1	12-03-18	12-03-18						Install Te	st Pilę - B-639 - West End - Phase 1
A3.B639.TPLE.1A10				12-06-18					- i - i - i	- i i	st Pile - B-639 - East End - Phase 1
A3.B639.TPILE.1A15				12-14-18							e Test Piles - B-639 - West End & Eas
A3.B639.PFDN.1A05				01-23-19						1 I I I	tall Pile Foundation - B-639 - East End
A3.B639.FOOT.1A0	5			02-07-19							stall Footers - B-639 - East End - Sta
A3.B639.PFDN.1A10			02-04-19								nstall Pile Foundation - B-639 - West I
A3.B639.FOOT.1A10				02-28-19							Install Footers - B-639 - West End -
A3.B639.ETBM.1B05				03-19-19						1 1 1	Excavate for Tie Beam(s) - B-639
A3.B639.TBEM.1B05				03-25-19						1 I I I	Install Half of Tie Beam(s) - B-639
A3.B639.BKF.1B05	Backfill over Tie Beam - B-639 - East End - Stage 1B			03-26-19							I Backfill over Tie Beam - B-639 - E
A3.B639.ETBM.1C0				04-12-19							I Excavate for Tie Beam(s) - B-63
A3.B639.TBEM.1C0				04-12-19							I Install Remainder of Tie Beam(
A3.B639.BKF.1C05	Backfill over Tie Beam - B-639 - West End - Stage 1C			04-19-19							I Backfill over Tie Beam - B-639
	Backlin over the Beatt - B-039 - West Life - Stage TO			08-30-19							▼ 08-30-19, Subst
Substructure											
A3.B639.ARCH.1C0 A3.B639.ARCH.1D0				05-23-19							Install Temp Support & For
A3.B639.ARCH.1D0	, , , , , , , , , , , , , , , , , , , ,			06-18-19							Install Arch Masonry - B-
				07-22-19							Pour, Cure, & Strip A
A3.B639.SPAND.1D0				08-15-19							Install Exterior Sp
A3.B639.SPAND.1D				08-15-19							Install Exterior Spa Backfill Arch - B-
A3.B639.BKFA.1D05	,			08-26-19							
A3.B639.BKFA.1D10				08-26-19							Backfill Arch - B-
A3.B639.RSOE.1D0 A3.B639.RSOE.1D1											Remove Temp
	S Remove remp. SO E - B-659 - West End - Stage 1D			08-30-19 09-03-19							I Remove Temp. ₩ 09-03-19, Supe
Superstructure											
A3.B639.BARR.1D0				08-19-19		 					I Install Bridge Para
A3.B639.FASC.1D05	5			09-03-19							Install Brick Fas
A3.B639.FASC.1D10	, , , , , , , , , , , , , , , , , , ,			09-03-19							Install Brick Fas
I-64 WBL Over Co	Ionial Pkwy (B-640) (Rehab/Widen)	374	11-13-18	11-21-19							V 11-21-1
Preparation		15	11-13-18	11-27-18						11-27-18,	Preparation
A3.B640.TSOE.1A05	5 Install Temp SOE - B-640 - East End - Stage 1A	4	11-13-18	11-19-18					0 Ir	istall Tem	p SOE - B-640 - East End - Stage 1A
Remaining Level of	Effort Critical Remaining Work	State F	Project No.:	: 0064-965-	229, P-10	01, R-201,	C-501, B-	638, B-6	39, B-640,		
Actual Work	♦ ♦ Milestone		E	B-641, B-64							
Remaining Work	Summary			Federal P	•						
				Contract	ID Numbe	er: C00106	689DB97				

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ID	Activity Name	Original Start Duration	Finish	Qtr 4		2 Qtr 3	Qtr 4	Qtr 1	Qtr 2 Qtr 3	Qtr 4 Qt
A3.B640.TSOE.1A10	Install Terms COE D 640, West End. Store 44	4 11-13-18	11 10 10	OND	JFMAN	JJA			A M J J A S	
A3.B640.EFDN.1A05	Install Temp SOE - B-640 - West End - Stage 1A Excavate for Foundation - B-640 - East End - Stage 1A	3 11-20-18							OE - B-640 - West Foundation - B-640	
A3.B640.EFDN.1A10	5	3 11-20-18							Foundation - B-640	
	Excavate for Foundation - B-640 - West End - Stage 1A	120 11-13-18							••••••••••••••••••••••••••••••••••••••	
Demolition										
A3.B640.DFAS.1A05	Remove Existing Brick Fascia - B-640 - Median Face - Stage 1A	10 11-13-18							ting Brick Fascia -	
A3.B640.DPAR.1A05	Demo Existing Bridge Parapet & Top of Spandrel Wall - B-640 - Median Si									ting Bridge Para
Foundation		137 12-04-18							▼ 04-19-19, Foun	
A3.B640.TPLE.1A05	Install Test Pile - B-640 - West End - Phase 1	1 12-04-18						i i i	ile - B-640 - West	
A3.B640.TPLE.1A10	Install Test Pile - B-640 - East End - Phase 1	1 12-07-18							Pile - B-640 - East	
A3.B640.TPLE.1A15	Restrike Test Piles - B-640 - West End & East End - Phase 1	1 12-10-18							st Piles - B-640 - V	
A3.B640.PFDN.1A05	Install Pile Foundation - B-640 - East End - Stage 1A	6 01-24-19							Pile Foundation - I	
A3.B640.FOOT.1A05	Install Footers - B-640 - East End - Stage 1A	10 02-04-19							all Footers - B-640	
A3.B640.PFDN.1A10	Install Pile Foundation - B-640 - West End - Stage 1A	6 02-12-19							all Pile Foundation	
A3.B640.FOOT.1A10	Install Footers - B-640 - West End - Stage 1A	10 02-22-19							stall Footers - ₿-6	
A3.B640.ETBM.1B05	Excavate for Tie Beam(s) - B-640 - East End - Stage 1B	2 03-18-19				ļ. ļ. ļ. ļ.		1 1	Excavate for Tie Be	
A3.B640.TBEM.1B05	Install Half of Tie Beam(s) - B-640 - East End - Stage 1B	3 03-21-19	03-25-19						Install Half of Tie B	1 1 1 1 1
A3.B640.BKF.1B05	Backfill over Tie Beam - B-640 - East End - Stage 1B	1 03-26-19	03-26-19						Backfill over Tie Be	
A3.B640.ETBM.1C05	Excavate for Tie Beam(s) - B-640 - West End - Stage 1C	2 04-11-19	04-12-19						Excavate for Tie	Beam(s) - B-64
A3.B640.TBEM.1C05	Install Remainder of Tie Beam(s) - B-640 - West End - Stage 1C	3 04-15-19							Install Remainde	er of Tie Beam(:
A3.B640.BKF.1C05	Backfill over Tie Beam - B-640 - West End - Stage 1C	1 04-19-19	04-19-19						I Backfill over Tie	Beam - B-640
Substructure		120 07-23-19	11-19-19						▼ 100 100 100 100 100 100 100 100 100 10	▼ 11-19-1
A3.B640.ARCH.1C05	Install Temp. Support & Form - B-640 - Stage 1C	15 07-23-19	08-15-19						🗖 Ins	stall Temp. Supp
A3.B640.ARCH.1D05	Install Arch Masonry - B-640 - Stage 1D	15 08-16-19	09-10-19							Install Arch Ma
A3.B640.ARCH.1D15	Pour, Cure, & Strip - B-640 - Stage 1D	20 09-12-19	10-14-19							Pour, Cure,
A3.B640.SPAND.1D05	Install Exterior Spandrel Wall - B-640 - East End - Stage 1D	15 10-15-19	11-05-19							🔲 Install Ex
A3.B640.SPAND.1D10	Install Exterior Spandrel Wall - B-640 - West End - Stage 1D	15 10-15-19	11-05-19		iiiii 					🔲 Install Ex
A3.B640.BKFA.1D05	Backfill Arch - B-640 - East End - Stage 1D	5 11-07-19	11-14-19							Backfill
A3.B640.BKFA.1D10	Backfill Arch - B-640 - West End - Stage 1D	5 11-07-19	11-14-19							Backfill
A3.B640.RSOE.1D05	Remove Temp. SO E - B-640 - East End - Stage 1D	3 11-15-19	11-19-19							I Remov
A3.B640.RSOE.1D10	Remove Temp. SO E - B-640 - West End - Stage 1D	3 11-15-19	11-19-19							Remov
Superstructure		10 11-07-19	11-21-19		iiiii					T 11-21-1
A3.B640.BARR.1D05	Install Bridge Parapet - B-640 - Arch Span - Stage 1D	2 11-07-19	11-08-19							Install Br
A3.B640.FASC.1D05	Install Brick Fascia - B-640 - East End - Stage 1D	10 11-07-19	11-21-19							Install I
A3.B640.FASC.1D10	Install Brick Fascia - B-640 - West End - Stage 1D	10 11-07-19								🔲 Install I
I-64 FBL Over Lakesh	nead Dr (B-641) (Rehab/Widen)	410 10-19-18	12-02-19				V			12-02
Preparation		3 10-19-18					▼ 10-23	-18, Prepai	ation	
A3.B641.TSOE.1A05	Install Temp. SO E - B-641 - East End - Stage 1A	3 10-19-18							E - B-641 - East Er	nd Storio 1A
A3.B641.TSOE.1A03	Install Temp. SO E - B-641 - West End - Stage 1A	3 10-19-18							E - B-641 - West E	
	Install Temp. SO E - B-041 - West End - Stage TA	139 10-25-18						Teinp: 30		
Demolition									06-14-19,	
A3.B641.DSLP.1A05	Demo of Slope Pavement - B-641 - West End - Stage 1A	2 10-25-18					I Demo		avement - B-641 -	
A3.B641.DSLP.1B05	Demo of Slope Pavement - B-641 - East End - Stage 1B	2 03-18-19							Demo of Slope Pav	
A3.B641.DBARR.1A05	Install Under Deck Protection & Demo Existing Parapet and Deck - B-641									der Deck Prote
Foundation		168 11-02-18						1 1 1	▼ 04-18-19, Foun	1 1 1 1 1
A3.B641.EXC.1A05	Excavate for Foundation Elements - B-641 - West End - Stage 1A	4 11-02-18	11-08-18				I Exc	avate for Fo	oundation Elements	s - B-641 - Wes
Remaining Level of Effo	rt Critical Remaining Work	State Project No.					39, B-640,			
Actual Work	 ♦ Milestone 				D-609, D-610, I : NHPP-064-3 (4					

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tivity ID	Activity Name	Original Duration	Start	Finish	Qtr 4	Qtr 1 Qtr 2	Qtr 3 Qtr 4		Qtr 2 Qt	
A3.B641.TPILE.1A0	5 Drive Test Piles - B-641 - Stage 1A	3	11-09-18	11-13-18	OND	JFMAM			MJJJ/ - B-641 - Sta	
A3.B641.TPILE.1A1	, i i i i i i i i i i i i i i i i i i i			11-26-18					iles - B-641	
A3.B641.PILE.1A05				12-26-18						1 - Abutment A - S
A3.B641.PILE.1A10				12-31-18				1 I I I		11 - Pier 1 - Stage
A3.B641.FOOT.1A0				01-11-19						641 - Pier 1 - Stag
A3.B641.EXC.1B05	<u> </u>			03-28-19				1 1 1	1 1 1 1	Foundation Eleme
A3.B641.PILE.1B05				04-02-19						Piles - B-641 - Abu
A3.B641.PILE.1B10		3	04-04-19	04-08-19						Piles - B-641 - Pie
A3.B641.FOOT.1B0				04-18-19				1 1 1		- ooter - B-641 - F
Substructure				06-07-19			· · · · · · · · · · · · · · · · · · ·		i i i i	-19, Substructure
A3.B641.ABUT.1A0	5 Construct Abutment - B-641 - Abutment A - Stage 1A	15	12-27-18	01-22-19				Constru		- B-641 - Abutme
A3.B641.COL.1A05				01-29-19						B-641 - Pier 1 - S
A3.B641.CAP.1A05	Construct Cap - B-641 - Pier 1 - Stage 1A			02-14-19				1 I I I		-641 - Pier 1 - Sta
A3.B641.BKF.1A05	Backfill Slope and Abutment - B-641 - West End - Stage 1A			02-21-19				- i - i - i		Abutment - B-64
A3.B641.RSOE.1A0				02-25-19					1 1 1 1	0 E - B-641 - We
A3.B641.SLP.1A05	Install Slope Protection - B-641 - West End - Stage 1A			03-05-19						tection - B-641 - 1
A3.B641.ABUT.1B0				04-26-19						Abutment - B-641
A3.B641.COL.1B05				05-06-19				1 1 1		t Column - B-641
A3.B641.CAP.1B05	Construct Cap - B-641 - Pier 2 - Stage 1B			05-21-19						ict Cap - B-641 -
A3.B641.BKF.1B05	Backfill Slope and Abutment - B-641 - East End - Stage 1B			05-28-19						I \$lope and Abutm
A3.B641.RSOE.1B0				05-30-19					i i i i	/e Temp.' SOE - B
A3.B641.SLP.1B05	Install Slope Protection - B-641 - East End - Stage 1B			06-07-19				·		Slope Protection
				12-02-19						12-
Superstructure	5 Justell Tarra Charina Far Drider Lasking D. 044, Okara 4.0									
C1.B641.JACK.1C0				07-09-19						stall Temp. Shorir
C1.B641.JACK.1C1				07-26-19					1 1 1 1	Prepare & Install
C1.B641.JACK.1C1				08-13-19				·		Jack Bridge for
C1.B641.JACK.1C2				09-16-19						Repair Pede
A3.B641.GIRD.1C0				09-19-19						I Install Girde
A3.B641.GIRD.1C1				09-23-19						I Install Gird
A3.B641.GIRD.1C1				09-26-19						I Install Gird
A3.B641.DECK.1C0				10-21-19						🔲 Instal B
A3.B641.DECK.1C1				10-29-19						🔲 Install I
A3.B641.CURE.1C0	· · · · ·			10-28-19						Cure B
A3.B641.DECK.1C1				11-08-19						📮 İnstall
A3.B641.APPR.1C0				11-08-19						
A3.B641.CURE.1C1				11-05-19						Cure E
A3.B641.BARR.1C1				11-07-19						
A3.B641.CURE.1C1				11-15-19						
A3.B641.BARR.1C0				11-12-19						I Instal
A3.B641.APPR.1C1				12-02-19						
A3.B641.BARR.1C1				11-18-19						l Insta
A3.B641.GRV.1C05	5 5 5			11-22-19						I Grin
	keshead Dr (B-638) (Rehab/Widen)			12-09-19						12
Preparation				10-29-18			▼ 10-29-′	1 1 1	1 1 1 1	
A3.B638.TSOE.1A0	5 Install Temp. SO E - B-638 - East End - Stage 1A	3	10-25-18	10-29-18			I) Install⊺	emp. SO E	- B+638 - Ea	astEnd-Stage1/
Remaining Level or	f Effort Critical Remaining Work	State F	Project No.	0064-965	229, P-101,	, R-201, C-501, I	B-638, B-639, B-640,			
Actual Work	♦ Milestone		I			0-609, D-610, D-6				
Remaining Work	Summary				•	NHPP-064-3 (49				
-				Contract	D Number:	C00106689DB9	97			

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vity ID	Activity Name	Original Duration	Start	Finish	Qtr 4	Qtr 1	Qtr 2	018 Qtr 3	Qtr 4	Qtr 1			Qtr 4	Qtr
					DNC	JFM	AMJ	JA				JASO		
A3.B638.TSOE.1A10	Install Temp. SO E - B-638 - West End - Stage 1A		10-25-18		· - -				li ins	tall lemp. :	4	38 - West En	4 4 1	
Demolition											i i i	06-17-19, E	- i - i - i	i i .
A3.B638.DSLP.1A05	Demo of Slope Pavement - B-638 - West End - Stage 1A		10-30-18						I De			nit - B-638 - V		1 1 1
A3.B638.DSLP.1B05	Partial Demo of Slope Pavement - B-638 - East End - Stage 1B		03-18-19									emo of Slope		1 1
A3.B638.DBARR.1A	15 Install Under Deck Protection & Demo Existing Parapet and Deck		05-31-19									Install Unde		Protec
Foundation			11-02-18								4	9-19, Found		
A3.B638.EXC.1A05	Excavate for Foundation Elements - B-638 - West End - Stage 14		11-02-18								1 1 1	n Elements -		West
A3.B638.TPILE.1A05		-	11-15-18						- I - I - I -	- I - I - I - I	1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	88 - Stage 1A		
A3.B638.TPILE.1A1			11-30-18								1 1 1	B-638 - Pha		
A3.B638.PILE.1A05	Drive Prod. Piles - B-638 - Abutment A - Stage 1A		01-02-19								1 I I I	- B-638 - Ab		
A3.B638.PILE.1A10	Drive Prod. Piles - B-638 - Pier 1 - Stage 1A		01-07-19								4	s - B-638 - Pi		i
A3.B638.FOOT.1A0			01-11-19								1 1 1	er - B-638 -		
A3.B638.EXC.1B05	Excavate for Foundation Elements - B-638 - East End - Stage 1B		03-22-19								i i i	e for Founda	i i i	i i
A3.B638.PILE.1B05	Drive Prod. Piles - B-638 - Abutment B - Stage 1B		04-09-19									Prod. Piles -		1 1
A3.B638.PILE.1B10	Drive Prod. Piles - B-638 - Pier 2 - Stage 1B	3	04-12-19	04-16-19							1 I I I	Prod. Piles -		1 I I
A3.B638.FOOT.1B0	Construct Footer - B-638 - Pier 2 - Stage 1B	7	04-18-19	04-29-19							Con	struct Footer	r - B-638	/- Pier
Substructure		163	01-07-19	06-18-19								06-18-19 5	Substruct	ture
A3.B638.ABUT.1A05	Construct Abutment - B-638 - Abutment A - Stage 1A	15	01-07-19	01-31-19						🗖 Cor	struct Abu	tment - B-63	38 - Abutr	ment/
A3.B638.COL.1A05	Construct Column - B-638 - Pier 1 - Stage 1A	10	01-24-19	02-07-19						🗖 Co	nstruct Co	lumn - B-638	8 - Pier 1	- Sta
A3.B638.CAP.1A05	Construct Cap - B-638 - Pier 1 - Stage 1A	10	02-08-19	02-25-19							Construct (ap - B-638	- Pier 1 -	Stage
A3.B638.BKF.1A05	Backfill Slope and Abutment - B-638 - West End - Stage 1A	3	02-26-19	03-01-19						Ó	Backfill Slo	pe and Abutr	ment - B-	638 -
A3.B638.RSOE.1A0	Remove Temp. SO E - B-638 - West End - Stage 1A	2	03-04-19	03-05-19							Remove T	emp.SOE-	B-638 - \	West
A3.B638.SLP.1A05	Install Slope Protection - B-638 - West End - Stage 1A	5	03-07-19	03-13-19						0	Install Slo	pe Protection	n - B-638	3 - We
A3.B638.ABUT.1B05	Construct Abutment - B-638 - Abutment B - Stage 1B	15	04-12-19	05-07-19							🗖 Cor	nstruct Abutr	ment - B-	638 -
A3.B638.COL.1B05	Construct Column - B-638 - Pier 2 - Stage 1B	10	04-30-19	05-14-19							Co	nstruct Colu	umn - B-6	38 - F
A3.B638.CAP.1B05	Construct Cap - B-638 - Pier 2 - Stage 1B	10	05-16-19	05-31-19								Construct Ca	ap - B-63	8 - Pie
A3.B638.BKF.1B05	Backfill Slope and Abutment - B-638 - East End - Stage 1B	3	06-03-19	06-06-19							0	Backfill Slope	e and Abi	utmen
A3.B638.RSOE.1B0	Remove Temp. SO E - B-638 - East End - Stage 1B	2	06-07-19	06-10-19							0	Remove Ter	mp. SO E	i - B-6
A3.B638.SLP.1B05	Install Slope Protection - B-638 - East End - Stage 1B	5	06-11-19	06-18-19								Install Slope	e Protect	tion - I
Superstructure		175	06-18-19	12-09-19							•	÷ ÷ ÷ ÷		12-09
C1.B638.JACK.1C0	Install Temp. Shoring For Bridge Jacking - B-641 - Stage 1C	15	06-18-19	07-11-19								🔲 İnstall Te	emp.Sho	ring F
C1.B638.JACK.1C10		10	07-12-19	07-29-19	•••••				·			Prepar		
C1.B638.JACK.1C1		10	07-30-19	08-14-19								1 1 1 1	k Bridge f	
C1.B638.JACK.1C20			08-15-19									1 I I I	Repair Pe	1 I I
A3.B638.GIRD.1C05	Install Girders - B-638 - Span a - Stage 1C	2	09-19-19	09-20-19									Install Gir	1 1
A3.B638.GIRD.1C10	· •	2	09-23-19	09-24-19									Install Gi	irders
A3.B638.GIRD.1C15		2	09-26-19	09-27-19								÷	Install Gi	
A3.B638.DECK.1C0			09-30-19										Instal	Brido
A3.B638.DECK.1C1			10-15-19									1 I I I I	🔲 Insta	1 1
A3.B638.CURE.1C0			10-23-19										Cure	: :
A3.B638.DECK.1C1		10	10-25-19	11-11-19									🔲 Inst	1 1 7
A3.B638.BARR.1C0			10-30-19									+	l Insta	
A3.B638.APPR.1C0			10-31-19										🔲 Inst	1 1
A3.B638.CURE.1C1			11-01-19										Cure	i i .
A3.B638.BARR.1C1			11-08-19											tall Brid
, (0.B000.B, " (1.10)											1			
Remaining Level of	0	State F		0064-965-2					39, B-640,					
	Effort	State F		: 0064-965- 3-641, B-64 Federal Pi	, B-643	, D-609, D	-610, D-6′	1	39, B-640,					

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-638 - East End - Stage 1B									: : :	
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End - Stage 1A									, , ,	
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B-638 - East End - Stage 1B										
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38 - East End - Stage 1B									 	
8-638 - East End - Stage 1B										
19, Superstructure										
or Bridge Jacking - B-641 - Stage	10								, , ,	
ge Jacks									+ -	
aring Replacement - B-641 - Stage	1C									
s and Replace Bridge Bearings										
B-638 - Span a - Stage 1C										
B-638 - Span b - Stage 1C										
- B-638 - Span c - Stage 1C	T								,	
e Deck - B-638 - Span a - Stage 1	¢									
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ge Parapet - B-638 - Span a - Stao	ge 10	2								
proach Slab - B-638 - Abutment A	i i	ge¦	1C							
je Deck - B-638 - Span b - Stage		1								
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SKANSKA				ity Im	nprovements - Segment III		 	Proposal Date: September 14,
tivity ID	Activity Name	Original Start Duration	Finish	Oti	2018 r 4 Qtr 1 Qtr 2 Qtr 3 Qtr 4 Qtr 1	201	Otr 4	2020 2021 Qtr 1 Qtr 2 Qtr 3 Qtr 4 Qtr 1 Qtr 2 Qtr 3
		Duration						
A3.B638.CURE.1C15	Cure Bridge Deck - B-638 - Span c - Stage 1C	7 11-12-19	11-18-19					Cure Bridge Deck - B-638 - Span c - Stage 1C
A3.B638.APPR.1C10	Install Approach Slab - B-638 - Abutment B - Stage 1C	7 11-19-19	12-03-19					Install Approach Slab - B-638 - Abutment B - Stage 1C
A3.B638.BARR.1C15	Install Bridge Parapet - B-638 - Span c - Stage 1C	1 11-19-19	11-19-19				11	nstall Bridge Parapet - B-638 - Span c - Stage 1C
A3.B638.GRV.1C05	Grind & Groove Bridge Deck - B-638 - Widening - Stage 1C	3 12-05-19	12-09-19				0	Grind & Groove Bridge Deck - B-638 - Widening - Stage 1C
Stage 2 - Construction		729 05-24-19	05-21-21					▼ 05-21-21,
Area A		593 10-07-19	05-21-21					▼ 05-21-21,
Roadway		593 10-07-19	05-21-21				 -	, , , , , , , , , , , , , , , , , , ,
64W.A6.STORM.205	Install Storm Drain Pipe & Structures - I-64 WB Outside (Area A-6) -							nstall Storm Drain Pipe & Structures - I-64 WB Outside (Area A-6) - Pl
64W.A5.STORM.205	Install Storm Drain Pipe & Structures - I-64 WB Outside (Area A-5) -							Install Storm Drain Pipe & Structures -
		232 10-11-19						✓ 01-07-21, Preparation
Preparation	Olars & Orak Trace I (AIMD Outside (Area A ()) Dhars (
64W.A6.CLGR.205	Clear & Grub Trees - I-64 WB Outside (Area A-6) - Phase 2	3 10-11-19					 	r & Grub Trees - I-64 WB Outside (Area A-6) - Phase 2
64E.A2.CLGR.205	Clear & Grub Trees - I-64 EB Outside (Area A-2) - Phase 2	3 11-22-19						Clear & Grub Trees - I-64 EB Outside (Area A-2) - Phase 2
64W.A4.CLGR.205	Clear & Grub Trees - I-64 WB Outside (Area A-4) - Phase 2	3 12-10-19						Clear & Grub Trees - I-64 WB Outside (Area A-4) - Phase 2
64E.A4.CLGR.205	Clear & Grub Trees - I-64 EB Outside (Area A-4) - Phase 2	3 02-14-20						Clear & Grub Trees - I-64 EB Outside (Area A-4) - Phase 2
64E.A6.CLGR.205	Clear & Grub Trees - I-64 EB Outside (Area A-6) - Phase 2	3 04-30-20						Clear & Grub Trees - I-64 EB Outside (Area A-6) - I
64W.A2.CLGR.205	Clear & Grub Trees - I-64 WB Outside (Area A-2) - Phase 2	3 05-19-20					 	I Clear & Grub Trees - I-64 WB Outside (Area A-2)
64E.A1.CLGR.205	Clear & Grub Trees - I-64 EB Outside (Area A-1) - Phase 2	3 07-13-20						Clear & Grub Trees - I-64 EB Outside (Area
64W.A5.CLGR.205	Clear & Grub Trees - I-64 WB Outside (Area A-5) - Phase 2	3 08-03-20						I Clear & Grub Trees - I-64 WB Outside (A
64E.A3.CLGR.205	Clear & Grub Trees - I-64 EB Outside (Area A-3) - Phase 2	3 09-10-20	09-14-20					Clear & Grub Trees - I-64 EB Outsid
64W.A3.CLGR.205	Clear & Grub Trees - I-64 WB Outside (Area A-3) - Phase 2	3 10-01-20	10-05-20					I Clear & Grub Trees - I-64 WB Out
64E.A5.CLGR.205	Clear & Grub Trees - I-64 EB Outside (Area A-5) - Phase 2	3 12-21-20	12-23-20					I Clear & Grub Trees - I-64
64W.A1.CLGR.205	Clear & Grub Trees - I-64 WB Outside (Area A-1) - Phase 2	3 01-04-21	01-07-21					1 Clear & Grub Trees + I-6
Maintenance of Traffic	C	575 10-07-19	05-03-21				-	▼ 05-03-21, N
64E.A5.TSTR.205	Eradicate & Install Temp. Striping (Shifting Traffic to Median) - I-64 E	B Ou 2 10-07-19	10-08-19				l Eradio	cate & Install Temp. Striping (Shifting Traffic to Median) - I-64 EB Outs
64E.A6.TSTR.205	Eradicate & Install Temp. Striping (Shifting Traffic to Median) - I-64 E	B Ou 2 10-07-19	10-08-19				l Eradio	cate & Install Temp. Striping (Shifting Traffic to Mediah) - I-64 EB Outs
64W.A5.TSTR.205	Eradicate & Install Temp. Striping (Shifting Traffic to Median) - I-64 W	VB OI 2 10-07-19	10-08-19				l Eradio	cate & Install Temp. Striping (Shifting Traffic to Median) - I-64 WB Out
64W.A6.TSTR.205	Eradicate & Install Temp. Striping (Shifting Traffic to Median) - I-64 W	VB OI 2 10-07-19	10-08-19				 Eradio	cạte & Install Temp. Striping (Shifting Traffic to Median) - I-64 WB Out
64W.A6.TBAR.205	Install Temp. Barrier Wall - I-64 WB Outside (Area A-6) - Phase 2	5 10-10-19	10-16-19				Insta	III.Temp. Barrier Wall - I-64 WB Outside (Area A-6) - Phase 2
64E.A1.TSTR.205	Eradicate & Install Temp. Striping (Shifting Traffic to Median) - I-64 E	B Ou 2 11-04-19	11-05-19) Éra	adicate & Insta∥ Temp, Striping (Shifting Traffic to Median) - I-64 EB O
64E.A2.TSTR.205	Eradicate & Install Temp. Striping (Shifting Traffic to Median) - I-64 E	B Ou 2 11-18-19	11-19-19				I I E	radicate & Install Temp. Striping (Shifting Traffic to Median) - I-64 EB
64E.A3.TSTR.205	Eradicate & Install Temp. Striping (Shifting Traffic to Median) - I-64 E	B Ou 2 11-18-19	11-19-19					radicate & Install Temp. Striping (Shifting Traffic to Median) - I-64 EB
64E.A4.TSTR.205	Eradicate & Install Temp. Striping (Shifting Traffic to Median) - I-64 E	B Ou 2 11-18-19	11-19-19		- 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 -	· · · · · · · · · · · · · · · · · · ·		radicate & Install Temp. Striping (Shifting Traffic to Median) - I-64 EB
64W.A3.TSTR.205	Eradicate & Install Temp. Striping (Shifting Traffic to Median) - I-64 W							radicate & Install Temp. Striping (Shifting Traffic to Median) - I-64 WB
64W.A4.TSTR.205	Eradicate & Install Temp. Striping (Shifting Traffic to Median) - I-64 W							radicate & Install Temp. Striping (Shifting Traffic to Median) - I-64 WB
64E.A2.TBAR.205	Install Temp. Barrier Wall - I-64 EB Outside (Area A-2) - Phase 2	4 11-21-19						Install Temp. Barrier Wall - I-64 EB Outside (Area A-2) - Phase 2
64W.A4.TBAR.205	Install Temp. Barrier Wall - I-64 WB Outside (Area A-4) - Phase 2	4 12-10-19					1 1 1	Install Temp. Barrier Wall - I-64 WB Outside (Area A-4) - Phase 2
64E.A4.TBAR.205	Install Temp. Barrier Wall - I-64 EB Outside (Area A-4) - Phase 2	4 02-14-20				·	 	Install Temp Barrier Wall - I-64 EB Outside (Area A-4) - Pha
64E.A2.RBAR.205	Remove Temp Barrier - I-64 EB Outside (Area A-2) - Phase 2	4 04-23-20						Remove Temp Barrier - I-64 EB Outside (Area A-2)
64W.A4.RBAR.205	Remove Temp Barrier - I-64 WB Outside (Area A-4) - Phase 2	4 04-23-20						Remove Temp Barrier - I-64 WB Outside (Area A-4)
64W.A6.RBAR.205	Remove Temp Barrier - I-64 WB Outside (Area A-6) - Phase 2	5 04-23-20						Remove Temp Batriet - I-64 WB Outside (Area A-6)
64E.A6.TBAR.205	Install Temp. Barrier Wall - I-64 EB Outside (Area A-6) - Phase 2	5 04-27-20						 Install Temp. Barrier Walt - I-64 EB Outside (Area A-0)
64E.A2.TSTR.210	Eradicate & Install Temp. Striping (Shifting Traffic to Final Configurati						 	Eradicate & Install Temp, Stripping (Shifting Traffic to
64W.A4.TSTR.210	Eradicate & Install Temp. Striping (Shifting Traffic to Final Configuration Eradicate & Install Temp. Striping (Shifting Traffic to Final Configuration)							Eradicate & Install Temp. Striping (Shifting Traffic to
64W.A6.TSTR.210	Eradicate & Install Temp. Striping (Shifting Traffic to Final Configurati							Eradicate & Install Temp, Striping (Shifting Traffic to
64W.A1.TSTR.205	Eradicate & Install Temp. Striping (Shifting Traffic to Median) - I-64 W	VB OI 2 05-14-20	00-15-20			<u> </u>	1 1 1	Eradicate & Install Temp. Striping (Shifting Traffic to
Remaining Level of Effor	ort Critical Remaining Work	State Project No.	0064-965	229,	P-101, R-201, C-501, B-638, B-639, B-640,		 	FULL SCHEDULE P
Actual Work	 ♦ Milestone 	-			643, D-609, D-610, D-611			Page 33
Remaining Work	Summary		Federal F	roject	t No.: NHPP-064-3 (498)			Print Date: 09-
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SKANSKA	Activity Name	Original		I-64 Capac		- Chieffe	5 - Oeg	·	18		Ī			2019				
		Duration		1 11 11311	Qtr 4	Qtr		Qtr 2	Qtr 3		tr 4	Qtr 1	Qtr 2	(Qtr 3		tr 4	Qtr 1
64W.A2.TSTR.205	Eradicate & Install Temp. Striping (Shifting Traffic to Median) - I-64 WE	201 2	05-14-20	05-15-20		JF	MA	MJ	JA	so	ND	JFM		JJ	ALS		ND	JF
64W.A2.TBAR.205	Install Temp. Barrier Wall - I-64 WB Outside (Area A-2) - Phase 2		05-18-20															
64E.A4.RBAR.205	Remove Temp Barrier - I-64 EB Outside (Area A-4) - Phase 2		06-08-20											i.				
64E.A4.TSTR.210	Eradicate & Install Temp. Striping (Shifting Traffic to Final Configuration		06-15-20															
64E.A1.TBAR.205	Install Temp. Barrier Wall - I-64 EB Outside (Area A-1) - Phase 2		07-14-20															
64W.A5.TBAR.205																		; ; ;
	Install Temp. Barrier Wall - I-64 WB Outside (Area A-5) - Phase 2		07-30-20				L											
64E.A6.RBAR.205	Remove Temp Barrier - I-64 EB Outside (Area A-6) - Phase 2		08-25-20															
64E.A6.TSTR.210	Eradicate & Install Temp. Striping (Shifting Traffic to Final Configuration		09-01-20											ł	: :			; ; ;
64E.A3.TBAR.205	Install Temp. Barrier Wall - I-64 EB Outside (Area A-3) - Phase 2		09-09-20															
64W.A2.RBAR.205	Remove Temp Barrier - I-64 WB Outside (Area A-2) - Phase 2		09-11-20															
64W.A2.TSTR.210	Eradicate & Install Temp. Striping (Shifting Traffic to Final Configuration		09-18-20														/l l	
64W.A3.TBAR.205	Install Temp. Barrier Wall - I-64 WB Outside (Area A-3) - Phase 2		09-29-20								1							; ; ; ;
64E.A1.RBAR.205	Remove Temp Barrier - I-64 EB Outside (Area A-1) - Phase 2		10-08-20															
64E.A1.TSTR.210	Eradicate & Install Temp. Striping (Shifting Traffic to Final Configuration	,	10-13-20								11							
64W.A5.RBAR.205	Remove Temp Barrier - I-64 WB Outside (Area A-5) - Phase 2	5	11-09-20	11-13-20														: : :
64W.A5.TSTR.210	Eradicate & Install Temp. Striping (Shifting Traffic to Final Configuration	ו) - 2	11-16-20	11-17-20		<u>.</u>					. <u></u>				i	Ŀ.		!!
64E.A5.TBAR.205	Install Temp. Barrier Wall - I-64 EB Outside (Area A-5) - Phase 2	5	12-17-20	12-23-20														
64W.A1.TBAR.205	Install Temp. Barrier Wall - I-64 WB Outside (Area A-1) - Phase 2	3	01-04-21	01-07-21														
64W.A1.RBAR.205	Remove Temp Barrier - I-64 WB Outside (Area A-1) - Phase 2	3	04-19-21	04-22-21														
64E.A3.RBAR.205	Remove Temp Barrier - I-64 EB Outside (Area A-3) - Phase 2	4	04-23-21	04-28-21														
64E.A5.RBAR.205	Remove Temp Barrier - I-64 EB Outside (Area A-5) - Phase 2	5	04-23-21	04-29-21														
64W.A3.RBAR.205	Remove Temp Barrier - I-64 WB Outside (Area A-3) - Phase 2	4	04-23-21	04-28-21														
64W.A1.TSTR.210	Eradicate & Install Temp. Striping (Shifting Traffic to Final Configuration	ו) - 2	04-23-21	04-26-21														; ; ; ;
64E.A3.TSTR.210	Eradicate & Install Temp. Striping (Shifting Traffic to Final Configuration	1) - 2	04-29-21	04-30-21											i i			
64W.A3.TSTR.210	Eradicate & Install Temp. Striping (Shifting Traffic to Final Configuration	ו) - 2	04-29-21	04-30-21														: : :
64E.A5.TSTR.210	Eradicate & Install Temp. Striping (Shifting Traffic to Final Configuration	ו) - 2	04-30-21	05-03-21							11				i i			
Demolition		276	10-17-19	01-25-21				L								-		
64W.A6.DRDW.205	Demo Existing Roadway - I-64 WB Outside (Area A-6) - Phase 2	14	10-17-19	11-07-19									111		i i	1	Den	no Exis
64E.A2.DRDW.205	Demo Existing Roadway - I-64 EB Outside (Area A-2) - Phase 2		11-27-19															Demo
64W.A4.DRDW.205	Demo Existing Roadway - I-64 WB Outside (Area A-4) - Phase 2		12-17-19														1 1	Der
64E.A4.DRDW.205	Demo Existing Roadway - I-64 EB Outside (Area A-4) - Phase 2		02-21-20															
64E.A6.DRDW.205	Demo Existing Roadway - I-64 EB Outside (Area A-6) - Phase 2		05-05-20															
64W.A2.DRDW.205	Demo Existing Roadway - I-64 WB Outside (Area A-2) - Phase 2		05-26-20															
64E.A1.DRDW.205	Demo Existing Roadway - I-64 EB Outside (Area A-1) - Phase 2		07-20-20															
64W.A5.DRDW.205	Demo Existing Roadway - I-64 WB Outside (Area A-5) - Phase 2		08-07-20															: ; ;
64E.A3.DRDW.205	Demo Existing Roadway - I-64 EB Outside (Area A-3) - Phase 2 Demo Existing Roadway - I-64 EB Outside (Area A-3) - Phase 2		09-15-20															
64W.A3.DRDW.205	Demo Existing Roadway - I-64 WB Outside (Area A-3) - Phase 2		10-06-20															
64E.A5.DRDW.205	Demo Existing Roadway - I-64 EB Outside (Area A-5) - Phase 2		12-28-20															
64W.A1.DRDW.205	Demo Existing Roadway - I-64 WB Outside (Area A-1) - Phase 2		01-08-21															
Roadway			10-28-19															
64W.A6.ECUT.205	Earthwork Cut - I-64 WB Outside (Area A-6) - Phase 2		10-28-19														l Ear	thwork
64W.A6.EFIL.205	Earthwork Fill - I-64 WB Outside (Area A-6) - Phase 2		11-05-19															irthwor
64W.A6.RGRD.205	Rough Grade Roadway - I-64 WB Outside (Area A-6) - Phase 2		11-11-19															ough C
64W.A6.BASE.205	Install Sub-Base - I-64 WB Outside (Area A-6) - Phase 2		11-18-19														—	Install
64W.A6.BARR.205	Install Permanent Barrier Wall - I-64 WB Outside (Area A-6) - Phase 2	2 4	11-19-19	11-25-19							1 1						l Ins	stall Pe
Remaining Level of Effo	ort Critical Remaining Work	State F	Project No.:	0064-965-	29 P-1	01 R-2	01 C-5	01 B-6	38 B-6	39 R-4	640							
Actual Work	 ♦ Milestone 	Stater	-	3-641, B-64						, D-С	5-10,							
Remaining Work	V Villestone V Summary		L	Federal P					-									
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64W.A6.OGDL.205 64E.A2.ECUT.205 64W.A6.ASBM.205 64W.A4.ECUT.205 64E.A2.EFIL.205 64E.A2.RGRD.205 64E.A2.BASE.205 64W.A4.EFIL.205	Activity Name Install Open Graded Drainage Layer - I-64 WB Outside (Area A-6) - Earthwork Cut - I-64 EB Outside (Area A-2) - Phase 2 Install Base Mix Asphalt - I-64 WB Outside (Area A-6) - Phase 2 Earthwork Cut - I-64 WB Outside (Area A-4) - Phase 2 Farthwork Cut - I-64 WB Outside (Area A-2) - Phase 2	5	Start 12-17-19	·	Qtr 4		Qtr 1 J F		Qtr 2	018 Qtr 3 J A		Qtr 4 D [N] [tr 1 F M	Qtr 2 A [M]		, Qtr 3 A €		tr 4	Qtr	
64E.A2.ECUT.205 64W.A6.ASBM.205 64W.A4.ECUT.205 64E.A2.EFIL.205 64E.A2.RGRD.205 64E.A2.BASE.205	Earthwork Cut - I-64 EB Outside (Area A-2) - Phase 2 Install Base Mix Asphalt - I-64 WB Outside (Area A-6) - Phase 2 Earthwork Cut - I-64 WB Outside (Area A-4) - Phase 2	5	12-17-19	·	0 N	D	JF	MA	M J	JA	SC]И]С	D	FM	AM	JJ	A	s oi	ND		. T
64E.A2.ECUT.205 64W.A6.ASBM.205 64W.A4.ECUT.205 64E.A2.EFIL.205 64E.A2.RGRD.205 64E.A2.BASE.205	Earthwork Cut - I-64 EB Outside (Area A-2) - Phase 2 Install Base Mix Asphalt - I-64 WB Outside (Area A-6) - Phase 2 Earthwork Cut - I-64 WB Outside (Area A-4) - Phase 2	5	12-17-19				-		r r	r r	+ +					_	- r	-	_	1	-
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64W.A4.ECUT.205 64E.A2.EFIL.205 64E.A2.RGRD.205 64E.A2.BASE.205	Earthwork Cut - I-64 WB Outside (Area A-4) - Phase 2	6		12-30-19															- i -	Ear	1
64E.A2.EFIL.205 64E.A2.RGRD.205 64E.A2.BASE.205				01-27-20																	1
64E.A2.RGRD.205 64E.A2.BASE.205				01-16-20																0 E	- i -
64E.A2.BASE.205	Earthwork Fill - I-64 EB Outside (Area A-2) - Phase 2			01-27-20																	
	Rough Grade Roadway - I-64 EB Outside (Area A-2) - Phase 2			02-07-20		ļ., ļ.,															- 4 -
64W A4 FFIL 205	Install Sub-Base - I-64 EB Outside (Area A-2) - Phase 2			02-20-20																	1
	Earthwork Fill - I-64 WB Outside (Area A-4) - Phase 2	4	02-06-20	02-11-20																	E
64W.A4.RGRD.205	Rough Grade Roadway - I-64 WB Outside (Area A-4) - Phase 2			03-02-20																	_
64W.A4.BASE.205	Install Sub-Base - I-64 WB Outside (Area A-4) - Phase 2	11	02-24-20	03-12-20																	-
64E.A2.OGDL.205	Install Open Graded Drainage Layer - I-64 EB Outside (Area A-2) -	Phase 2	02-25-20	02-27-20							l. l.							i i i			Ľ.
64W.A4.BARR.205	Install Permanent Barrier Wall - I-64 WB Outside (Area A-4) - Phase	e 2 2	02-25-20	02-27-20																	ų
64E.A2.ASBM.205	Install Base Mix Asphalt - I-64 EB Outside (Area A-2) - Phase 2	6	03-02-20	03-12-20																	ļ
64E.A4.ECUT.205	Earthwork Cut - I-64 EB Outside (Area A-4) - Phase 2	5	03-10-20	03-20-20																	
64W.A4.OGDL.205	Install Open Graded Drainage Layer - I-64 WB Outside (Area A-4) -	- Phas 2	03-13-20	03-16-20																	Ì
64W.A4.ASBM.205	Install Base Mix Asphalt - I-64 WB Outside (Area A-4) - Phase 2	6	03-17-20	03-26-20																	
64E.A2.ASIM.205	Install Intermediate Mix Asphalt - I-64 EB Outside (Area A-2) - Phase	e 2 3	04-02-20	04-09-20																	
64W.A4.ASIM.205	Install Intermediate Mix Asphalt - I-64 WB Outside (Area A-4) - Phase	se 2 3	04-02-20	04-09-20																	
64W.A6.ASIM.205	Install Intermediate Mix Asphalt - I-64 WB Outside (Area A-6) - Phase	se 2 3	04-02-20	04-09-20																	Ì
64E.A4.EFIL.205	Earthwork Fill - I-64 EB Outside (Area A-4) - Phase 2	5	04-03-20	04-10-20																	
64E.A4.RGRD.205	Rough Grade Roadway - I-64 EB Outside (Area A-4) - Phase 2	9	04-09-20	04-23-20																	Ì
64E.A2.ASGR.205	Install Asphalt at Guardrail - I-64 EB Outside (Area A-2) - Phase 2	3	04-10-20	04-14-20						L J 											
64W.A4.ASGR.205	Install Asphalt at Guardrail - I-64 WB Outside (Area A-4) - Phase 2	3	04-10-20	04-14-20																	
64W.A6.ASGR.205	Install Asphalt at Guardrail - I-64 WB Outside (Area A-6) - Phase 2	3	04-10-20	04-14-20																	
64E.A2.GRAIL.205	Install Guardrail - I-64 EB Outside (Area A-2) - Phase 2	4	04-17-20	04-22-20																	
64E.A4.BASE.205	Install Sub-Base - I-64 EB Outside (Area A-4) - Phase 2	11	04-17-20	05-04-20																	
64W.A4.GRAIL.205	Install Guardrail - I-64 WB Outside (Area A-4) - Phase 2	4	04-17-20	04-22-20									4	·							
64W.A6.GRAIL.205	Install Guardrail - I-64 WB Outside (Area A-6) - Phase 2	4	04-17-20	04-22-20														1		i i	÷
64E.A4.BARR.205	Install Permanent Barrier Wall - I-64 EB Outside (Area A-4) - Phase	2 2	04-20-20	04-21-20																	
64E.A4.OGDL.205	Install Open Graded Drainage Layer - I-64 EB Outside (Area A-4) -	Phase 2	05-05-20	05-07-20																	Ì
64E.A2.ASSM.210	Install Surface Mix Asphalt - I-64 EB (Area A-2) - Phase 2	5	05-05-20	05-12-20																	
64W.A4.ASSM.210	Install Surface Mix Asphalt - I-64 WB (Area A-4) - Phase 2	5	05-05-20	05-12-20		1								·							
64E.A2.PSTR.210	Install Final Striping - I-64 EB (Area A-2) - Phase 2			05-21-20																	
64W.A4.PSTR.210	Install Final Striping - I-64 WB (Area A-4) - Phase 2			05-21-20																	
64W.A6.ASSM.210	Install Surface Mix Asphalt - I-64 WB (Area A-6) - Phase 2			05-14-20																	
64E.A4.ASBM.205	Install Base Mix Asphalt - I-64 EB Outside (Area A-4) - Phase 2			05-18-20																	
64W.A6.PSTR.210	Install Final Striping - I-64 WB (Area A-6) - Phase 2			05-22-20										·ii		·				<u></u>	
64E.A4.ASIM.205	Install Intermediate Mix Asphalt - I-64 EB Outside (Area A-4) - Phase			05-22-20																	
64E.A6.ECUT.205	Earthwork Cut - I-64 EB Outside (Area A-6) - Phase 2			06-02-20																	÷
64E.A4.ASGR.205	Install Asphalt at Guardrail - I-64 EB Outside (Area A-4) - Phase 2			05-29-20																	
64E.A4.GRAIL.205	Install Guardrail - I-64 EB Outside (Area A-4) - Phase 2			06-05-20																	
64W.A2.ECUT.205	Earthwork Cut - I-64 WB Outside (Area A-2) - Phase 2			06-22-20					 	 						·					
64E.A6.EFIL.205	Earthwork Fill - I-64 EB Outside (Area A-6) - Phase 2			06-22-20																	
64E.A6.RGRD.205	Rough Grade Roadway - I-64 EB Outside (Area A-6) - Phase 2			07-02-20																	
64E.A4.ASSM.210	Install Surface Mix Asphalt - I-64 EB (Area A-4) - Phase 2			07-02-20																	
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Remaining Level of Ef	fort Critical Remaining Work	State Pr	roject No.:	0064-965-2	229, P	P-101,	, R-20	1, C-5	601, B-	638, B-	-639,	B-640,									
Actual Work	♦ Milestone		E	3-641, B-642																	
Remaining Work	Summary			Federal Pr	-																
				Contract II	D Nun	mber:	C001	06689	DB97												

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1		Qtr	202		Qtr 3	2	Qt	r A		Qtr 1	1	202 Qtr 2	1	Qtr 3 tr 4
Тм		M	2 J	J		, S			J	F	M		J	
II OI	en	Gra	adec	l Di	aina	agę	Laye	er¦- I-	64 \	WB	Οι	itside (A	rea	a A-6) - Phase
thwo	rk	Cut	- 1-6	64 E	БВÇ	Dute	sidę ((Area	A-2	2) -	Pha	ase 2		
nsta	all B	ase	Mix	As	pha	lt - I	-64	wв	Juts	ide	(Ai	ea A-6)	- F	hase 2
arth	wor	k C	ut -	I-64	ŧ Wi	вģ	utsic	le (A	rea	A-4) - (Phase 2		
art	hwo	rk I	÷ill -	I-6	4 EE	зd	utsid	e (Ai	ea/	A-2)) - F	hase 2		
Ro	ugh	Gra	ade	Ro	adw	∕ay	- I-64	₽Ė₿	Out	side	e (A	rea A-2)) - (l	Phase 2
l In	stal	Su	b-B	ase	- 1-	64	EB C	Jutsi	de (/	Are	a A	2) - Pha	isė	2
Ea	rthw	vork	Fil	- 1-	64 \	WŖ	Out	side	(Are	аA	-4)	- Phase	2	
i I	Żou	gh (Gra	de l	Roa	dwa	ay - I	-64 V	ýв	Dut	side	e (Area /	4-4) - Phase 2
ė.	Ins	tall	Sub	-Ba	se -	- 1-6	4 W	ΒΟι	itsid	e (/	٩re	a A-4) - I	Ph	ase 2
li h	ista	dl O	pen	Gr	ade	d D	raina	age L	aye	r - İ	-64	EB Out	sid	e (Area A-2)
Ē	İsta	l P	- erm	ane	nt B	Barr	ier W	/all -	I-64	W	ВÖ	utside (/	Are	a A-4) - Pha
	Ins	tall	Bas	e N	lix A	sph	alt:-	I-64	ËB (Dut	side	e (Area /	4-2	2) - Phase 2
	Ea	rth	wor	۲ C	ut -	I-64	ΕB	Outs	ide	(Are	ea	4-4) - Pł	naṡ	e2
1	Ins	tall	Ope	en (Grad	ded	Drai	nage	La	ver	- -(64 WB C	Jut	side (Årea A-
	l. In	sta	ll Ba	se	Mix	Asp	halt	- 1-64	4 W	вø	uts	ide (Are	a∤	A-4) - Phase
	0	Inst	all l	ntei	me	diat	e Mix	(Asp	halt	- 1-	64	EB Outs	ide	e (Area A-2) -
	1	Inst	all l	ntei	me	diat	e Mix	(Åsp	halt	- 14	64	WB Out	sid	e (Area A-4)
		Inst	all h	ntei	me	diat	e Ņi	(Åsp	halt	- 1-	64	WB Out	sid	e (Area A-6)
	0	Ear	thw	ork	Fill	- 1-6	64 EE	3 Du	tside	ė (Å	rea	A-4) - F	ha	ise 2
		R	bug	۱G	rade	e R	badw	/aˈy -	I-64	Ε₿	80	utside (A	٨re	a A-4) - Phas
	0	Ins	tall /	Asp	halt	at	Guar	drail	- 1-6	54 E	В	Dutside	(Ar	ea A-2) - Pha
	0	Ins	tall	Asp	halt	ati	Guar	drail	+ 1-6	54 V	VВ	Outside	(Å	rea A-4) - Ph
	0	Ins	tall	Asp	halt	at	Guar	drail	- 1-6	54 V	VВ	Outside	(Å	rea A-6) - Ph
		In	stall	Gı.	ard	rail	- 1-64	4 EB	Out	tside	e (A	Area A-2) -	Phase 2
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	0	In	stal	Gι	ard	rail	- 1-64	4 WE	3 O I	itsic	le (Area A-4	1) -	Phase 2
	0	In	stall	Gι	ard	rail	- 1-64	4 WE	3 01	itsic	le (Area A-6	5)	Phase 2
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			Inst	all	Burf	ace	Mix	Aspl	halt -	1-6	64 V	VB (Area	a A	-4) - Phase 2
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			1 1					1	1. 1	5 1	1		1	6) - Phase 2
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					ī	· ;	- i		i i	i - i		i i i	i.	ea A-4) - Pha
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FULL SCHEDULE PRINT Page 35 of 50 Print Date: 09-10-17

5KANSKA			ity Improvements - Segment III	Proposal Date: September 14, 201
ivity ID	Activity Name	Original Start Finish Duration	2018 Qtr 4 Qtr 1 Qtr 2 Qtr 3 Qtr 4 Qtr	
64E.A4.PSTR.210	Install Final Striping - I-64 EB (Area A-4) - Phase 2	9 06-19-20 07-06-20	O N D J F M A M J J A S O N D J F	_M A M J J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S □ □ Install Final Striping - I-64 EB (Area A-4) - Phase
64E.A6.BASE.205	Install Sub-Base - I-64 EB Outside (Area A-6) - Phase 2	12 06-25-20 07-17-20		□ Install Sub-Base - I-64 EB (\u00ed EB (\u00ed A+\u00ed) - I Install Sub-Base - I-64 EB (\u00ed A+\u00ed) - I
64E.A6.BARR.205	Install Permanent Barrier Wall - I-64 EB Outside (Area A-6) - Phase 2	4 06-26-20 07-01-20		Install Permanent Barrier Wall -1-64 EB Outside (Albert Of
64W.A2.EFIL.205	Earthwork Fill - I-64 WB Outside (Area A-2) - Phase 2	7 07-02-20 07-14-20		Earthwork Fill - I-64 WB Outside (Area A-2) - Ph
64W.A2.RGRD.205	Rough Grade Roadway - I-64 WB Outside (Area A-2) - Thase 2	9 07-09-20 07-24-20		Rough Grade Roadway - 1-64 WB Outside (Are
64W.A2.BASE.205	Install Sub-Base - I-64 WB Outside (Area A-2) - Phase 2	11 07-17-20 08-06-20		□ Rougin Grade Roadway - 1-04 WB Outside (Area A-2
64E.A6.OGDL.205	Install Open Graded Drainage Laver - I-64 EB Outside (Area A-6) - Pha			I Install Open Graded Drainage Layer - I-64 EB
64E.A6.ASBM.205	Install Base Mix Asphalt - I-64 EB Outside (Area A-6) - Phase 2	6 07-24-20 08-03-20		Install Base Mix Asphalt - I-64 EB Outside (Are
64E.A6.ASIM.205	Install Dase Mix Asphalt - I-64 EB Outside (Area A-6) - Phase 2 Install Intermediate Mix Asphalt - I-64 EB Outside (Area A-6) - Phase 2	3 08-04-20 08-10-20		Install Dase Wik Asphalt - I-64 EB Outside (Aut
64E.A1.ECUT.205	Earthwork Cut - I-64 EB Outside (Area A-1) - Phase 2	3 08-06-20 08-10-20		 Install internegate mix-spiral -1-04 LD Out Earthwork Cut - I-64 EB Outside (Area A-1) -
64W.A2.OGDL.205				I Install Open Graded Drainage Layer + I-64 W
64E.A6.ASGR.205	Install Open Graded Drainage Layer - I-64 WB Outside (Area A-2) - Phil			*
	Install Asphalt at Guardrail - I-64 EB Outside (Area A-6) - Phase 2	3 08-11-20 08-17-20		InstallAsphalt at Guardrail- I-64 EB Outside
64W.A2.ASBM.205	Install Base Mix Asphalt - I-64 WB Outside (Area A-2) - Phase 2	6 08-13-20 08-21-20		Install Base Mix Asphalt - I-64 WB Qutside (
64E.A1.EFIL.205	Earthwork Fill - I-64 EB Outside (Area A-1) - Phase 2	3 08-18-20 08-21-20		I Earthwork Fill -)-64 EB Outside (Area A-1)
64E.A6.GRAIL.205	Install Guardrail - I-64 EB Outside (Area A-6) - Phase 2	4 08-18-20 08-24-20		Install Guardrail - 1-64 EB Outside (Area A-
64W.A5.ECUT.205	Earthwork Cut - I-64 WB Outside (Area A-5) - Phase 2	7 08-21-20 09-04-20		Earthwork Cut - I+64 WB Outside (Area A
64E.A1.RGRD.205	Rough Grade Roadway - I-64 EB Outside (Area A-1) - Phase 2	6 08-24-20 09-01-20		🛛 Rough Grade Roadway - I-64 EB Outside
64W.A2.ASIM.205	Install Intermediate Mix Asphalt - I-64 WB Outside (Area A-2) - Phase 2	3 08-24-20 08-27-20		I¦ Install Intermediate Mix Asphalt ⊹I-64 WB 0
64W.A2.ASGR.205	Install Asphalt at Guardrail - I-64 WB Outside (Area A-2) - Phase 2	3 08-28-20 09-01-20		Install Asphalt at Guardrail - 1-64 WB Outs
64E.A1.BASE.205	Install Sub-Base - I-64 EB Outside (Area A-1) - Phase 2	8 08-31-20 09-14-20		Install Sub-Base - I-64 EB Outside (Area
64W.A5.EFIL.205	Earthwork Fill - I-64 WB Outside (Area A-5) - Phase 2	7 08-31-20 09-11-20		☐ Earthwork Fill - I∔64 WB Outside (Area A
64W.A2.GRAIL.205	Install Guardrail - I-64 WB Outside (Area A-2) - Phase 2	4 09-04-20 09-10-20		🛛 Install Guardrail - I-64 WB Outside (Area
64E.A6.ASSM.210	Install Surface Mix Asphalt - I-64 EB (Area A-6) - Phase 2	5 09-04-20 09-14-20		Install Surface Mix Asphalt - I-64 EB (Are
64W.A5.RGRD.205	Rough Grade Roadway - I-64 WB Outside (Area A-5) - Phase 2	9 09-08-20 09-22-20		🗖 Rough Grade Roadway - I-64 WB Outs
64E.A6.PSTR.210	Install Final Striping - I-64 EB (Area A-6) - Phase 2	9 09-08-20 09-22-20		🔲 Install Final Striping - I-64 EB (Area A-6)
64W.A5.BASE.205	Install Sub-Base - I-64 WB Outside (Area A-5) - Phase 2	12 09-14-20 10-05-20		🔲 Install Sub-Base - I-64 WB Outside (A
64E.A1.OGDL.205	Install Open Graded Drainage Layer - I-64 EB Outside (Area A-1) - Pha	2 09-15-20 09-17-20		I Install Open Graded Drainage Layer - I-
64E.A1.ASBM.205	Install Base Mix Asphalt - I-64 EB Outside (Area A-1) - Phase 2	4 09-18-20 09-24-20		II Install Base Mix Asphalt - I-64 EB Outsi
64W.A2.ASSM.210	Install Surface Mix Asphalt - I-64 WB (Area A-2) - Phase 2	5 09-22-20 09-29-20		🛿 Install Surface Mix Asphalt -)-64 WB (/
64W.A2.PSTR.210	Install Final Striping - I-64 WB (Area A-2) - Phase 2	9 09-24-20 10-09-20		🔲 Install Final Striping - I-64 WB (Area A
64E.A1.ASIM.205	Install Intermediate Mix Asphalt - I-64 EB Outside (Area A-1) - Phase 2	2 09-25-20 09-28-20		It Install Intermediate Mix Asphalt - I-64 E
64E.A1.ASGR.205	Install Asphalt at Guardrail - I-64 EB Outside (Area A-1) - Phase 2	2 09-29-20 10-01-20		1 Install Asphalt at Guardrail - 1-64 EB O
64E.A1.GRAIL.205	Install Guardrail - I-64 EB Outside (Area A-1) - Phase 2	3 10-02-20 10-06-20		1 Install Guardrail - I-64 EB Outside (Ar
64W.A5.OGDL.205	Install Open Graded Drainage Layer - I-64 WB Outside (Area A-5) - Pha	s 3 10-06-20 10-09-20		I Install Open Graded Drainage Layer
64E.A3.ECUT.205	Earthwork Cut - I-64 EB Outside (Area A-3) - Phase 2	3 10-08-20 10-12-20		Earthwork Cut - I-64 EB Outside (Are
64W.A5.ASBM.205	Install Base Mix Asphalt - I-64 WB Outside (Area A-5) - Phase 2	6 10-12-20 10-20-20		□ Install Base Mix Asphalt - I-64 WB O
64E.A1.ASSM.210	Install Surface Mix Asphalt - I-64 EB (Area A-1) - Phase 2	3 10-16-20 10-20-20		I Install Surfaçe Mix Asphalt - I-64 EB
64E.A1.PSTR.210	Install Final Striping - I-64 EB (Area A-1) - Phase 2	6 10-19-20 10-27-20		🛽 Install Final Striping - I-64 EB (Area
64W.A5.ASIM.205	Install Intermediate Mix Asphalt - I-64 WB Outside (Area A-5) - Phase 2	3 10-22-20 10-26-20		I Install Intermediate Mix Asphalt - I-6
64W.A3.ECUT.205	Earthwork Cut - I-64 WB Outside (Area A-3) - Phase 2	5 10-23-20 10-30-20		🛛 🖬 Earthwork Cut - I-64 WB Outside (
64W.A5.ASGR.205	Install Asphalt at Guardrail - I-64 WB Outside (Area A-5) - Phase 2	3 10-27-20 10-30-20		It Install Asphalt at Guardrail - I-64 W
64W.A5.GRAIL.205	Install Guardrail - I-64 WB Outside (Area A-5) - Phase 2	4 11-02-20 11-06-20		Install Guardrail - I-64 WB Outside
64E.A3.EFIL.205	Earthwork Fill - I-64 EB Outside (Area A-3) - Phase 2	3 11-17-20 11-23-20		D Earthwork Fill - I-64 EB Outside
64W.A5.ASSM.210	Install Surface Mix Asphalt - I-64 WB (Area A-5) - Phase 2	5 11-19-20 04-13-21		Install Surface M
64E.A3.RGRD.205	Rough Grade Roadway - I-64 EB Outside (Area A-3) - Phase 2	9 11-24-20 12-14-20		📮 Rough Grade Roadway - I-64
Remaining Level of Effort	Critical Remaining Work	State Project No.: 0064-965	229, P-101, R-201, C-501, B-638, B-639, B-640,	FULL SCHEDULE PRIN
Actual Work	 ♦ Milestone 		2, B-643, D-609, D-610, D-611	Page 36 of 5
-	Summary	Federal F	roject No.: NHPP-064-3 (498)	Print Date: 09-10-1
Remaining Work				

KANSKA			I-64 Capa	city I	mprove	ments -	Segme				_		0010					000	Pr	oposal		ptember 14
/ ID	Activity Name	Original Start Duration	Finish			Qtr 1			Qtr 3	Qtr 4	Qtr	1 Qtr	2019 2 C	tr 3	Qtr 4	Qtr 1	Qtr 2	020 Qtr 3	Qtr 4	Qtr	1 Qt	021 r 2 Qtr
64W.A3.EFIL.205	Earthwork Fill - I-64 WB Outside (Area A-3) - Phase 2	5 12-03-20	12-11-20	_	ND	JFN		JJ	JAS		JF	MAM	JJ	AS	OND	JFN		JJAS				/ J J A I-64 WB O
64E.A3.BASE.205	Install Sub-Base - I-64 EB Outside (Area A-3) - Phase 2	11 12-04-20								·												se - 1-64 EE
				_																- i - i	- i i	
64W.A3.RGRD.205	Rough Grade Roadway - I-64 WB Outside (Area A-3) - Phase 2	9 12-08-20		_																		Roadway -
64W.A3.BASE.205	Install Sub-Base - I-64 WB Outside (Area A-3) - Phase 2	11 12-17-20		_																1.1.1	1.1.1	ase - I-64 \
64E.A5.ECUT.205	Earthwork Cut - I-64 EB Outside (Area A-5) - Phase 2	5 01-15-21		_																1 1		Cut - I-64
64E.A3.OGDL.205	Install Open Graded Drainage Layer - I-64 EB Outside (Area A-3) - Phi																					n Graded E
64W.A3.OGDL.205	Install Open Graded Drainage Layer - I-64 WB Outside (Area A-3) - Ph			_																		n Graded E
64E.A3.ASBM.205	Install Base Mix Asphalt - I-64 EB Outside (Area A-3) - Phase 2	6 01-22-21		_																1.1.1	1.1	se Mix Asph
64W.A3.ASBM.205	Install Base Mix Asphalt - I-64 WB Outside (Area A-3) - Phase 2	6 01-22-21		_																	- i i	se Mix Asph
64E.A5.EFIL.205	Earthwork Fill - I-64 EB Outside (Area A-5) - Phase 2	5 01-26-21		_																1 1		(Fill - I-64
64W.A1.ECUT.205	Earthwork Cut - I-64 WB Outside (Area A-1) - Phase 2	3 01-26-21								ļļļ							ļ					Cut - I-64
64E.A5.RGRD.205	Rough Grade Roadway - I-64 EB Outside (Area A-5) - Phase 2	9 02-01-21		_																		Grade Road
64W.A1.EFIL.205	Earthwork Fill - I-64 WB Outside (Area A-1) - Phase 2	3 02-05-21		_																0		k Fill - I-64
64E.A5.BASE.205	Install Sub-Base - I-64 EB Outside (Area A-5) - Phase 2	12 02-08-21	03-01-21																		l Install	Sub-Base -
64W.A1.RGRD.205	Rough Grade Roadway - I-64 WB Outside (Area A-1) - Phase 2	6 02-11-21	02-22-21																		Rough	Grade Roa
64W.A1.BASE.205	Install Sub-Base - I-64 WB Outside (Area A-1) - Phase 2	8 02-19-21	03-04-21							<u></u>											l Install	Sub-Base
64E.A5.OGDL.205	Install Open Graded Drainage Layer - I-64 EB Outside (Area A-5) - Pha	ası 3 03-02-21	03-05-21																		Install	Open Grad
64W.A1.OGDL.205	Install Open Graded Drainage Layer - I-64 WB Outside (Area A-1) - Ph	nas 2 03-05-21	03-08-21																		Instal	Open Gra
64E.A5.ASBM.205	Install Base Mix Asphalt - I-64 EB Outside (Area A-5) - Phase 2	6 03-08-21	03-16-21																		Insta	ll Başe Mix
64W.A1.ASBM.205	Install Base Mix Asphalt - I-64 WB Outside (Area A-1) - Phase 2	4 03-09-21	03-15-21																		Insta	ll Base Mix
64E.A3.ASIM.205	Install Intermediate Mix Asphalt - I-64 EB Outside (Area A-3) - Phase 2	3 04-01-21	04-08-21																		🛛 İn	stall Interme
64E.A5.ASIM.205	Install Intermediate Mix Asphalt - I-64 EB Outside (Area A-5) - Phase 2	3 04-01-21	04-08-21	1								L	L L				-!				🛛 İn	stall Interme
64W.A1.ASIM.205	Install Intermediate Mix Asphalt - I-64 WB Outside (Area A-1) - Phase 2	2 2 04-01-21	04-06-21																		🛛 Ins	tall Interme
64W.A3.ASIM.205	Install Intermediate Mix Asphalt - I-64 WB Outside (Area A-3) - Phase 2	2 3 04-01-21	04-08-21																		🛛 İn:	stall Interme
64W.A5.PSTR.210	Install Final Striping - I-64 WB (Area A-5) - Phase 2	9 04-01-21	04-27-21																			Install Final
64W.A1.ASGR.205	Install Asphalt at Guardrail - I-64 WB Outside (Area A-1) - Phase 2	2 04-08-21	04-09-21																			stall Åsphal
64E.A3.ASGR.205	Install Asphalt at Guardrail - I-64 EB Outside (Area A-3) - Phase 2	3 04-09-21																				stall Aspha
64E.A5.ASGR.205	Install Asphalt at Guardrail - I-64 EB Outside (Area A-5) - Phase 2	3 04-09-21		_																		stall Aspha
64W.A3.ASGR.205	Install Asphalt at Guardrail - I-64 WB Outside (Area A-3) - Phase 2	3 04-09-21		_																	1.1	stall Aspha
64W.A1.GRAIL.205	Install Guardrail - I-64 WB Outside (Area A-1) - Phase 2	3 04-12-21		_																	i i	istall Guard
64E.A3.GRAIL.205	Install Guardrail - I-64 EB Outside (Area A-3) - Phase 2	4 04-16-21	_	_																		nstall Guar
64E.A5.GRAIL.205	Install Guardrail - I-64 EB Outside (Area A-5) - Phase 2	4 04-16-21																		· · · · · · ·		nstall Guar
64W.A3.GRAIL.205	Install Guardrail - 1-64 WB Outside (Area A-3) - Phase 2	4 04-16-21		_																		nstall Guar
64W.A1.ASSM.210	Install Surface Mix Asphalt - I-64 WB (Area A-1) - Phase 2	3 04-27-21		_																		Install Surfa
64W.A1.PSTR.210		6 04-29-21		_																	- i i	Install Fina
	Install Final Striping - I-64 WB (Area A-1) - Phase 2			_																		Install Sur
64E.A3.ASSM.210	Install Surface Mix Asphalt - I-64 EB (Area A-3) - Phase 2	5 05-03-21								· • - • • • • • • • • • • • • • • • • •				···					· +			
64W.A3.ASSM.210	Install Surface Mix Asphalt - I-64 WB (Area A-3) - Phase 2	5 05-03-21		_																	- i i	Install Sur
64E.A3.PSTR.210	Install Final Striping - I-64 EB (Area A-3) - Phase 2	9 05-04-21		_																	1.1	Install Fir
64E.A5.ASSM.210	Install Surface Mix Asphalt - I-64 EB (Area A-5) - Phase 2	5 05-04-21		_																	- i i	Install Su
64W.A3.PSTR.210	Install Final Striping - I-64 WB (Area A-3) - Phase 2	9 05-04-21		_																	1 1	Install Fir
64E.A5.PSTR.210	Install Final Striping - I-64 EB (Area A-5) - Phase 2	9 05-06-21		+ +																		Install Fi
Storm Drainage		263 12-20-19	05-07-21																			05-07-21,
64E.A2.SWMP.A2-2.205	Construct Pond A2-2 - I-64 EB Outside (Area A-2) 1096+00 - Phase 2	15 12-20-19	01-17-20)											- i i 📫	Cons	truct Pon	d A2- 2 - -6	i4 EB Outs	ide (Are	ea A-2) 1	096+00 - P
64E.A2.SWMP.A2-3.205	Construct Pond A2-3 - I-64 EB Outside (Area A-2) 1107+00 - Phase 2	15 12-20-19	01-17-20)												Cons	truct Pon	d A2-3 - I-6	4 EB Outs	ide (Are	a A-2) 1	107+00 - Pl
64E.A2.STORM.205	Install Storm Drain Pipe & Structures - I-64 EB Outside (Area A-2) - Ph	as 13 12-27-19	01-21-20)											ļ ļ	📕 Insta	I Storm [orain Pipe o	Structure	s - I-64	EB Outs	ide (Area A
Remaining Level of Effor	rt Critical Remaining Work	State Project No.	: 0064-965	5-229	, P-101	, R-201,	, C-501,	B-63	8, B-63	9, B-640,											FULL SC	
Actual Work	Milestone		B-641, B-6																			Page 37
Remaining Work	Summary		Federal I	Proje	ct No.: I	NHPP-0	064-3 (4	98)													Pri	nt Date: 09

KANSKA			·	ty Improveme	mis - Segme		2				20	10			
vity ID	Activity Name	Original Start Duration	Finish	Qtr 4 Q	tr 1 Qtr	2018	Qtr 3	Qtr 4	Qtr 1	Qt	20 ⁻ tr 2	Qtr 3	Qtr	4 Q1	tr 1
		Burution		ONDJ											
64W.A4.STORM.205	Install Storm Drain Pipe & Structures - I-64 WB Outside (Area A-4) - Pha	12 01-16-20	02-06-20												l'ns
64E.A4.SWMP.A4-2.205	Construct Pond A4-4 - I-64 WB Outside (Area A-4) 2205+00 - Phase 2	15 01-17-20	02-13-20											i i i	
64W.A4.SWMP.A4-3.205	Construct Pond A4-3 - I-64 WB Outside (Area A-4) 2192+75 - Phase 2	15 01-17-20	02-13-20												
64E.A4.STORM.205	Install Storm Drain Pipe & Structures - I-64 EB Outside (Area A-4) - Phase	s 12 03-16-20	04-06-20												
64W.A4.OFAL.205	Perform Outfall Restoration - I-64 WB Outside (Area A-4) - Phase 2	5 04-30-20	05-07-20												
64E.A2.OFAL.205	Perform Outfall Restoration - I-64 EB Outside (Area A-2) - Phase 2	5 04-30-20	05-07-20												
64W.A6.OFAL.205	Perform Outfall Restoration - I-64 WB Outside (Area A-6) - Phase 2	5 05-01-20	05-08-20												
64E.A6.STORM.205	Install Storm Drain Pipe & Structures - I-64 EB Outside (Area A-6) - Phase	9 05-29-20	06-15-20												
64W.A2.SWMP.A2-1.205	Construct Pond A2-1 - I-64 WB Outside (Area A-2) 2090+00 - Phase 2	15 06-08-20	07-07-20												
64E.A4.OFAL.205	Perform Outfall Restoration - I-64 EB Outside (Area A-4) - Phase 2	5 06-15-20	06-23-20												
64W.A2.STORM.205	Install Storm Drain Pipe & Structures - I-64 WB Outside (Area A-2) - Pha	13 06-15-20	07-09-20												
64E.A1.STORM.205	Install Storm Drain Pipe & Structures - I-64 EB Outside (Area A-1) - Phase	3 08-11-20	08-17-20												
64E.A6.OFAL.205	Perform Outfall Restoration - I-64 EB Outside (Area A-6) - Phase 2	5 09-01-20	09-10-20												
64W.A2.OFAL.205	Perform Outfall Restoration - I-64 WB Outside (Area A-2) - Phase 2	5 09-18-20	09-25-20												i
64E.A1.OFAL.205	Perform Outfall Restoration - I-64 EB Outside (Area A-1) - Phase 2	5 10-13-20	10-20-20												
64E.A3.STORM.205	Install Storm Drain Pipe & Structures - I-64 EB Outside (Area A-3) - Phase	s 19 10-13-20	11-16-20			i i									į
64W.A3.STORM.205	Install Storm Drain Pipe & Structures - I-64 WB Outside (Area A-3) - Pha	19 10-29-20	12-04-20				·							Jk_	
64W.A5.OFAL.205	Perform Outfall Restoration - I-64 WB Outside (Area A-5) - Phase 2	5 11-16-20	11-24-20												
64E.A5.STORM.205	Install Storm Drain Pipe & Structures - I-64 EB Outside (Area A-5) - Phase	4 01-22-21	01-28-21												
64W.A1.SWMP.A1-1.205	Construct Pond A1-1 - I-64 WB Outside (Area A-1) 2041+00 - Phase 2	15 01-26-21	02-22-21												
64W.A1.STORM.205	Install Storm Drain Pipe & Structures - I-64 WB Outside (Area A-1) - Pha	3 02-01-21	02-04-21												
64W.A1.OFAL.205	Perform Outfall Restoration - I-64 WB Outside (Area A-1) - Phase 2	5 04-23-21													
64W.A3.OFAL.205	Perform Outfall Restoration - I-64 WB Outside (Area A-3) - Phase 2	5 04-29-21													
64E.A3.OFAL.205	Perform Outfall Restoration - I-64 EB Outside (Area A-3) - Phase 2	5 04-29-21													
64E.A5.OFAL.205	Perform Outfall Restoration - I-64 EB Outside (Area A-5) - Phase 2	5 04-30-21													
Area B		397 07-05-19									•	<u></u>			
Roadway		397 07-05-19						+++							
		24 07-09-19											08-23-19	Drong	, ntior
Preparation													1.1		1
64E.B3.CLGR.205	Clear & Grub Trees - I-64 EB Outside (Area B-3) - Phase 2	2 07-09-19										Clear	i i .	1 1 1	i i
64E.B1.CLGR.205	Clear & Grub Trees - I-64 EB Outside (Area B-1) - Phase 2	2 08-13-19											lear & G		- 1
64E.B3.CLGR.215	Clear & Grub Trees - I-64 WB Outside (Area B-3) - Phase 2	2 08-16-19						·				والمراور والمراور والمراور	Clear & C	والإستاد والمراجع والمراجع	4
64W.B1.CLGR.205	Clear & Grub Trees - I-64 WB Outside (Area B-1) - Phase 2	2 08-20-19											Clear & (Grub Tre	es -
Maintenance of Traffic		386 07-05-19	07-24-20												
64E.B3.TSTR.205	Eradicate & Install Temp. Striping (Shifting Traffic to Temp Crossover/Ne	2 07-05-19	07-08-19									Eradio	cate & In	stall Ten	np. S
64E.B3.TBAR.205	Install Temp. Barrier Wall - I-64 EB Outside (Area B-3) - Phase 2	2 07-09-19	07-11-19									I Insta	ll Temp. I	Barrier V	Vall -
	Frediente & Instell Terms, Otrising (Chiffing Troffic to Terms Orecession/Max					1 1						l Er	adicate	& Install	Tem
64E.B1.TSTR.205	Eradicate & Install Temp. Striping (Shifting Traffic to Temp Crossover/Ne	2 08-08-19	08-09-19									i i i i i i i i i i i i i i i i i i i	istall Ter	np.Barri	er W
64E.B1.TSTR.205 64E.B1.TBAR.205	Install Temp. Barrier Wall - I-64 EB Outside (Area B-1) - Phase 2	2 08-08-19 4 08-12-19													
			08-15-19											111	
64E.B1.TBAR.205	Install Temp. Barrier Wall - I-64 EB Outside (Area B-1) - Phase 2	4 08-12-19	08-15-19 07-24-20												
64E.B1.TBAR.205 64E.B1.RBAR.205	Install Temp. Barrier Wall - I-64 EB Outside (Area B-1) - Phase 2 Remove Temp Barrier - I-64 EB Outside (Area B-1) - Phase 2	4 08-12-19 4 07-20-20	08-15-19 07-24-20 07-21-20									•			01-2
64E.B1.TBAR.205 64E.B1.RBAR.205 64E.B3.RBAR.205	Install Temp. Barrier Wall - I-64 EB Outside (Area B-1) - Phase 2 Remove Temp Barrier - I-64 EB Outside (Area B-1) - Phase 2	4 08-12-19 4 07-20-20 2 07-20-20	08-15-19 07-24-20 07-21-20 01-24-20									-	no Existir	1 1 1	1
64E.B1.TBAR.205 64E.B1.RBAR.205 64E.B3.RBAR.205 Demolition	Install Temp. Barrier Wall - I-64 EB Outside (Area B-1) - Phase 2 Remove Temp Barrier - I-64 EB Outside (Area B-1) - Phase 2 Remove Temp Barrier - I-64 EB Outside (Area B-3) - Phase 2	4 08-12-19 4 07-20-20 2 07-20-20 116 07-12-19	08-15-19 07-24-20 07-21-20 01-24-20 07-23-19									-		1 1 1	way
64E.B1.TBAR.205 64E.B1.RBAR.205 64E.B3.RBAR.205 Demolition 64E.B3.DRDW.205 64E.B1.DRDW.205	Install Temp. Barrier Wall - I-64 EB Outside (Area B-1) - Phase 2 Remove Temp Barrier - I-64 EB Outside (Area B-1) - Phase 2 Remove Temp Barrier - I-64 EB Outside (Area B-3) - Phase 2 Demo Existing Roadway - I-64 EB Outside (Area B-3) - Phase 2	4 08-12-19 4 07-20-20 2 07-20-20 116 07-12-19 7 07-12-19	08-15-19 07-24-20 07-21-20 01-24-20 07-23-19 01-24-20									-		ng Road	way
64E.B1.TBAR.205 64E.B1.RBAR.205 64E.B3.RBAR.205 Demolition 64E.B3.DRDW.205 64E.B1.DRDW.205 Roadway	Install Temp. Barrier Wall - I-64 EB Outside (Area B-1) - Phase 2 Remove Temp Barrier - I-64 EB Outside (Area B-1) - Phase 2 Remove Temp Barrier - I-64 EB Outside (Area B-3) - Phase 2 Demo Existing Roadway - I-64 EB Outside (Area B-3) - Phase 2 Demo Existing Roadway - I-64 EB Outside (Area B-1) - Phase 2	4 08-12-19 4 07-20-20 2 07-20-20 116 07-12-19 7 07-12-19 11 01-07-20 273 07-23-19	08-15-19 07-24-20 07-21-20 01-24-20 07-23-19 01-24-20 04-20-20									Den	no Existii	ng Road	way Dem
64E.B1.TBAR.205 64E.B1.RBAR.205 64E.B3.RBAR.205 Demolition 64E.B3.DRDW.205 64E.B1.DRDW.205 64E.B1.DRDW.205 64E.B3.ECUT.205	Install Temp. Barrier Wall - I-64 EB Outside (Area B-1) - Phase 2 Remove Temp Barrier - I-64 EB Outside (Area B-1) - Phase 2 Remove Temp Barrier - I-64 EB Outside (Area B-3) - Phase 2 Demo Existing Roadway - I-64 EB Outside (Area B-3) - Phase 2 Demo Existing Roadway - I-64 EB Outside (Area B-3) - Phase 2 Earthwork Cut - I-64 EB Outside (Area B-3) - Phase 2	4 08-12-19 4 07-20-20 2 07-20-20 116 07-12-19 7 07-12-19 11 01-07-20 273 07-23-19 3 07-23-19	08-15-19 07-24-20 07-21-20 01-24-20 07-23-19 01-24-20 04-20-20 07-29-19									Den Ear	no Existii thwork (ng Road D Cut - I-64	way Dem 4 EB
64E.B1.TBAR.205 64E.B1.RBAR.205 64E.B3.RBAR.205 Demolition 64E.B3.DRDW.205 64E.B1.DRDW.205 Roadway 64E.B3.ECUT.205 64E.B3.EFIL.205	Install Temp. Barrier Wall - I-64 EB Outside (Area B-1) - Phase 2 Remove Temp Barrier - I-64 EB Outside (Area B-1) - Phase 2 Remove Temp Barrier - I-64 EB Outside (Area B-3) - Phase 2 Demo Existing Roadway - I-64 EB Outside (Area B-3) - Phase 2 Demo Existing Roadway - I-64 EB Outside (Area B-3) - Phase 2 Earthwork Cut - I-64 EB Outside (Area B-3) - Phase 2 Earthwork Cut - I-64 EB Outside (Area B-3) - Phase 2 Earthwork Fill - I-64 EB Outside (Area B-3) - Phase 2	4 08-12-19 4 07-20-20 7 07-20-20 116 07-12-19 7 07-12-19 11 01-07-20 273 07-23-19 3 07-23-19 3 08-02-19	08-15-19 07-24-20 07-21-20 01-24-20 01-24-20 04-20-20 07-29-19 08-06-19									Den Ear	no Existii	ng Road D Cut - I-64	way Dem 4 EB
64E.B1.TBAR.205 64E.B1.RBAR.205 64E.B3.RBAR.205 Demolition 64E.B3.DRDW.205 64E.B1.DRDW.205 Roadway 64E.B3.ECUT.205 64E.B3.EFIL.205 Remaining Level of Effor	Install Temp. Barrier Wall - I-64 EB Outside (Area B-1) - Phase 2 Remove Temp Barrier - I-64 EB Outside (Area B-1) - Phase 2 Remove Temp Barrier - I-64 EB Outside (Area B-3) - Phase 2 Demo Existing Roadway - I-64 EB Outside (Area B-3) - Phase 2 Demo Existing Roadway - I-64 EB Outside (Area B-3) - Phase 2 Earthwork Cut - I-64 EB Outside (Area B-3) - Phase 2 Earthwork Cut - I-64 EB Outside (Area B-3) - Phase 2 Earthwork Fill - I-64 EB Outside (Area B-3) - Phase 2 Critical Remaining Work	4 08-12-19 07-20-20 07-20-20 10 07-12-19 11 07-12-19 11 01-07-20 273 07-23-19 3 07-23-19 3 08-02-19 State Project Notice	08-15-19 07-24-20 07-21-20 01-24-20 01-24-20 04-20-20 07-29-19 08-06-19				8, B-63	9, B-640,				Den Ear	no Existii thwork (ng Road D Cut - I-64	way Dem 4 EB
64E.B1.TBAR.205 64E.B1.RBAR.205 64E.B3.RBAR.205 Demolition 64E.B3.DRDW.205 64E.B1.DRDW.205 Roadway 64E.B3.ECUT.205 64E.B3.EFIL.205	Install Temp. Barrier Wall - I-64 EB Outside (Area B-1) - Phase 2 Remove Temp Barrier - I-64 EB Outside (Area B-1) - Phase 2 Remove Temp Barrier - I-64 EB Outside (Area B-3) - Phase 2 Demo Existing Roadway - I-64 EB Outside (Area B-3) - Phase 2 Demo Existing Roadway - I-64 EB Outside (Area B-3) - Phase 2 Earthwork Cut - I-64 EB Outside (Area B-3) - Phase 2 Earthwork Cut - I-64 EB Outside (Area B-3) - Phase 2 Earthwork Fill - I-64 EB Outside (Area B-3) - Phase 2	4 08-12-19 07-20-20 07-20-20 10 07-12-19 11 07-12-19 11 01-07-20 273 07-23-19 3 07-23-19 3 08-02-19 State Project Notice	08-15-19 07-24-20 07-21-20 01-24-20 01-24-20 04-20-20 07-29-19 08-06-19 0064-965- 3-641, B-64	229, P-101, R 2, B-643, D-6 oject No.: NH	09, D-610, D	D-611	8, B-63	9, B-640,				Den Ear	no Existii thwork (ng Road D Cut - I-64	way Dem 4 EB

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					Pe	rfo	rm	Out	allRe	sto	ation -	I-64	EB O	utside	(Area A
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SKANSKA	Activity Name	Original Start	· · ·	sity impl	ovements - Segme	2018	Ī		Proposal Date: September 14, 20 2019 2020 2021
	Activity Name	Original Start Duration	Finish	Qtr 4		2 Qtr 3	Qtr 4	Qtr 1 Qtr 2	2 Qtr 3 Qtr 4 Qtr 1 Qtr 2 Qtr 3 Qtr 4 Qtr 1 Qtr 2 Qtr 3
64E.B3.RGRD.205	Rough Grade Roadway - I-64 EB Outside (Area B-3) - Phase 2	5 00 16 1	9 09-24-19		DJFMAM	JJAS	DND	JFMAM	J J A S O N D J F M A M J J A S O N D J F M A M J J A S Rough Grade Roadway - I-64 EB Outside (Area B-3) - Phase 2
64E.B3.BASE.205	Install Sub-Base - I-64 EB Outside (Area B-3) - Phase 2		9 10-03-19			L L			 Install Sub-Base - I-64 EB Outside (Area B-3) - Phase 2
64E.B3.OGDL.205	Install Open Graded Drainage Layer - I-64 EB Outside (Area B-3) - Flase 2		9 10-03-19 9 10-07-19						Install Open Graded Drainage Layer - 1-64 EB Outside (Area B-3) - Phase 2
64E.B3.ASBM.205	Install Base Mix Asphalt - I-64 EB Outside (Area B-3) - Phase 2		9 10-07-19 9 10-11-19	- :					 Install Open Graded Dranage Layer - For EB Outside (Area B-3) - Frase 2 Install Base Mix Asphalt - I-64 EB Outside (Area B-3) - Phase 2
64E.B3.ASIM.205	Install Intermediate Mix Asphalt - I-64 EB Outside (Area B-3) - Phase 2		9 10-11-19 9 10-15-19	- 1					I Install Intermediate Mix Asphalt - I-64 EB Outside (Area B-3) - Phase 2
64E.B3.ASGR.205	Install Asphalt at Guardrail - I-64 EB Outside (Area B-3) - Phase 2		9 10-15-19 9 10-18-19						I Install Asphalt at Guardrail - I-64 EB Outside (Area B-3) - Phase 2
64E.B3.GRAIL.205	Install Guardrail - I-64 EB Outside (Area B-3) - Phase 2		9 10-22-19						I Install Guardrail - I-64 EB Outside (Area B-3) - Phase 2
64E.B1.ECUT.205	Earthwork Cut - I-64 EB Outside (Area B-3) - Phase 2		0 01-30-20						E Earthwork Cut:- I-64 EB Outside (Area B-3) - Phase 2
64E.B1.EFIL.205	Earthwork Fill - I-64 EB Outside (Area B-1) - Phase 2		0 02-07-20						Earthwork Fill- I-64 EB Outside (Area B-1) - Phase 2
64E.B1.RGRD.205	Rough Grade Roadway - I-64 EB Outside (Area B-1) - Phase 2		0 02-07-20	-					 Rough Grade Roadway - I-64 EB Outside (Area B-1) - Phase 2
64E.B1.BASE.205	Install Sub-Base - I-64 EB Outside (Area B-1) - Phase 2		0 02-28-20	-					Install Sub-Base - I-64 EB Outside (Area B-1) - Phase 2
64E.B1.OGDL.205	Install Open Graded Drainage Layer - I-64 EB Outside (Area B-1) - F		0 03-03-20						Install Open Graded Drainage Layer -iI-64 EB Outside (Area I
64E.B1.ASBM.205	Install Base Mix Asphalt - I-64 EB Outside (Area B-1) - Phase 2		0 03-13-20	-					 Install Base Mix Asphalt- I-64 EB Outside (Area B-1) - Phase
64E.B1.ASIM.205	Install Intermediate Mix Asphalt - I-64 EB Outside (Area B-1) - Phase		0 04-07-20						 Install Intermediate Mix Asphalt - I-64 EB Outside (Area B-
64E.B1.ASGR.205	Install Asphalt at Guardrail - I-64 EB Outside (Area B-1) - Phase 2		0 04-13-20						 Install Asphalt at Guardrail + I-64 EB Outside (Area B-1) -
64E.B1.GRAIL.205	Install Guardrail - I-64 EB Outside (Area B-1) - Phase 2		0 04-20-20						Install Guardrail- I-64 EB Outside (Area B-1) - Phase 2
Storm Drainage		103 01-23-2			·				v v v v v v v v v v v v v v v v v v v
64E.B1.SWMP.B1-1.205	Construct Pond B1-1 - I-64 EB Outside (Area B-1) 1324+00 - Phase		0 02-18-20						Construct Pond B11 - I-64 EB Outside (Area B-1) 1324+00 - P
64E.B1.STORM.205	Install Storm Drain Pipe & Structures - I-64 EB Outside (Area B-1) - F		0 02-03-20						Install Storm Drain Pipe & Structures - I-64 EB Outside:(Area B-1)
64E.B3.OFAL.205	Perform Outfall Restoration - I-64 EB Outside (Area B-3) - Phase 2		0 07-31-20						Perform Outfall Restoration - I-64 EB Outside
64E.B1.OFAL.205	Perform Outfall Restoration - I-64 EB Outside (Area B-0) - Phase 2		0 08-04-20						Perform Outfall Restoration - I-64 EB Outsid
Sound Walls		45 07-12-1					·		▼ 09-13-19. Sound Walls
64E.B3.GMSW.205	Install Ground Mounted Sound Wall Posts (1369+77 - 1394+50) - I-64								Install Ground Mounted Sound Wall Posts (1369+77 - 1394+50) - I-64 EB O utside
64E.B3.GMSW.205	Install Ground Mounted Sound Wall Posts (1369+77 - 1394+50) - F6			- 1					Install Ground Mounted Sound Wall Panels (1369+77 - 1394+50) - F44 EB Outside
	Install Ground Mounted Sound Wall Parlets (1309+77 - 1394+30) - FC	313 08-07-1							
Systemwide									V V V06-14-20, Systemwide
64E.B3.ITS.205	Relocate ITS Fiber & Power Duct Bank - I-64 EB (Area B-3) - Phase								□ Relocate ITS Fiber & Power Duct Bank + I-64 EB (Area B+3)- Phase 2
64E.B1.ITS.205	Relocate ITS Fiber & Power Duct Bank - I-64 EB (Area B-1) - Phase								Relocate ITS Fiber & Power Duct Bank - I-64 EB (Area B-1) - F
64E.B3.ITS.215	Pull Fiber & Power and Terminate - I-64 EB (Area B) - Phase 2	10 06-05-2							Pull Fiber & Power and Terminate - I-64 EB (Area
Bridges		338 08-16-1							▼ 07+18+20, Bridges
	s Creek (B-642) (Replacement)	338 08-16-1							▼ 07+18+20, I-64 EBL Over Queens Creek (B+64
Preparation		25 08-29-1	9 10-14-19						10-14-19, Preparation
	Grade for Abutment - Abut A - B-642 - Stage 2		9 08-30-19	- i					l Grade for Abutment - Abut A- B-642 - Stage 2
A3.B642.ABB.GRAD.205	Grade for Abutment - Abut B - B-642 - Stage 2	2 10-11-1	9 10-14-19						I Grade for Abutment - Abut B - B-642 - Stage 2
Demolition		41 08-16-1	9 10-10-19						10-10-19, Demolition
Superstructure		34 08-16-1	9 10-01-19						v v v 10-01-19, Superstructure
A3.B642.SA.DDEK.205	Demo Parapet & Sawcut - Span a - B-642 - Stage 2	1 08-16-1	9 08-16-19						I Demo Parapet & Sawcut - Span a - B-642 - Stage 2
A3.B642.SA.DGRD.205	Remove Deck & Girders - Span a - B-642 - Stage 2	1 08-17-1	9 08-17-19						I Remove Deck & Girders - Span a - B-642 - Stage 2
A3.B642.SB.DDEK.205	Demo Parapet & Sawcut - Span b - B-642 - Stage 2	1 08-19-1	9 08-19-19						I Demo Parapet & Sawcut - Span b - B-642 - Stage 2
A3.B642.SB.DGRD.205	Remove Deck & Girders - Span b - B-642 - Stage 2	1 08-20-1	9 08-20-19						I Remove Deck & Girders - Span b - B-642 - Stage 2
A3.B642.SC.DDEK.205	Demo Parapet & Sawcut - Span c - B-642 - Stage 2	1 08-22-1	9 08-22-19						I Demo Parapet & Sawout - Span c - B-642 - Stage 2
A3.B642.SC.DGRD.205	Remove Deck & Girders - Span c - B-642 - Stage 2	1 08-23-1	9 08-23-19						I Remove Deck & Girders - Span c - B-642 - Stage 2
A3.B642.SD.DDEK.205	Demo Parapet & Sawcut - Span d - B-642 - Stage 2	1 08-24-1	9 08-24-19						I Demo Parapet & Sawçut - Span d - B-642 - Stage 2
AJ.D042.3D.DDER.203	Remove Deck & Girders - Span d - B-642 - Stage 2	1 08-26-1	9 08-26-19						I Remove Deck & Girders - Span d - B-642 - Stage 2
A3.B642.SD.DGRD.205		1 09 27 1	9 08-27-19						I Demo Parapet & Sawcut - Span e - B-642 - Stage 2
	Demo Parapet & Sawcut - Span e - B-642 - Stage 2	1 00-27-1							
A3.B642.SD.DGRD.205				-229, P-	101, R-201, C-501,	B-638, B-639,	B-640,		FULL SCHEDULE PRIN
A3.B642.SD.DGRD.205 A3.B642.SE.DDEK.205			o.: 0064-965		101, R-201, C-501, 3, D-609, D-610, D		B-640,		FULL SCHEDULE PRIN Page 39 of 5 Print Date: 09-10-1

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tivity ID	Activity Name	Original Start Finis Duration	Qtr 4 Qtr 1 Qtr 2 Qtr 3 Qtr 4	2019 2020 2021 Qtr 1 Qtr 2 Qtr 3 Qtr 4 Qtr 1 Qtr 2 Qtr 3 Qtr 4 Qtr 3 Qtr 4 Qtr 4 Qtr 5 Qtr 3 Qtr 4 Qtr 4 Qtr 5 Qtr 5 Qtr 5 Qtr 5 Qtr 5 Qtr 5 Qtr 5 Qtr 5 Qtr 5 Qtr 5 Qtr 5 Qtr 5 Qtr 5 Qtr 5 Qtr 5 Qtr 5 Qtr 5 Qtr 5 Qtr 5 Qtr 5 Qtr 5 Qtr 5 Qtr 5 Qtr 5 Qtr 5 Qtr 5 Qtr 5 Qtr 5 Qtr 5 Qtr 5 Qtr 5 Qtr 5 Qtr 5 Qtr 5 Qtr 5 Qtr 5 Qtr 5 Qtr 5 Qtr 5 Qtr 5 Qtr 5 Qtr 5 Qtr 5 Qtr 5 Qtr 5 Qtr 5 Qtr 5 Qtr 5 Qtr 5 Qtr 5 Qtr 5 Qtr 5 Qtr 5 Qtr 5 Qtr 5 Qtr 5 Qtr 5 Qtr 5 Qtr 5 Qtr 5 Qtr 5 Qtr 5 Qtr 5 Qtr 5 Qtr 5 Qtr 5 Qtr 5 Qtr 5 Qtr 5 Qtr 5<
A3.B642.SE.DGRD.2	205 Remove Deck & Girders - Span e - B-642 - Stage 2	1 08-29-19 08-29		J F M A M J F M A N D J F M A S O N D J F M A S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S D A S D A M J J A S D A M J J A S D A S D A M
A3.B642.SF.DDEK.20	05 Demo Parapet & Sawcut - Span f - B-642 - Stage 2	1 08-30-19 08-30	D-19	Demo Parapet & Sawcuti- Span f - B-642 - Stage 2
A3.B642.SF.DGRD.2		1 08-31-19 08-3		I Remové Deck & Girders' - Span f - B-642 - Stage 2
A3.B642.SG.DDEK.2		1 09-03-19 09-03		Demo Parapet & Sawcut - Span g - B-642 - Stage 2
A3.B642.SG.DGRD.2		1 09-04-19 09-04		Remove Deck & Girders - Spah g - B-642 - Stage 2
A3.B642.SH.DDEK.20		1 09-05-19 09-0		I Demo Parapet & Sawcut - Span h + B-642 - Stage 2
A3.B642.SH.DGRD.2		1 09-06-19 09-06		I Remove Deck & Girders - Span h - B-642 - Stage 2
A3.B642.SI.DDEK.20		1 09-07-19 09-07	· · · · · · · · · · · · · · · · · · ·	I Derho Parapet & Sawcut - Spah i - B-642 - Stage 2
A3.B642.SI.DGRD.20		1 09-09-19 09-09		I Remove Deck & Girders - Span i - B-642 - Stage 2
A3.B642.SJ.DDEK.20		1 09-10-19 09-10		I Demo Parapet & Sawcut - Span j - B-642 - Stage 2
A3.B642.SJ.DGRD.2		1 09-12-19 09-12	—— 📕 📕 🗄 🗄 🗄 🗄 🗄 🗄 🗄 🗄 🗄 👘	I Remove Deck & Girders - Span j + B-642 - Stage 2
A3.B642.SK.DDEK.20		1 09-13-19 09-13		I Demo Parapet & Sawcut - Span k - B-642 - Stage 2
A3.B642.SK.DGRD.2		1 09-14-19 09-14		I Remove Deck & Girders - Span k - B-642 - Stage 2
A3.B642.SL.DDEK.20		1 09-16-19 09-16		I Demo Parapet & Sawcut - Span I - B-642 - Stage 2
A3.B642.SL.DDER.20		1 09-17-19 09-17		Remove Deck & Girders - Span I - B-642 - Stage 2
A3.B642.SM.DDEK.2		1 09-19-19 09-19	—— 📕 📕 🗄 🗄 🗄 🗄 🗄 🗄 🗄 🗄 🗄 👘	I Demo Parapet & Sawcut - Span m - B-642 - Stage 2
		1 09-20-19 09-19		Remove Deck & Girders - Span m - B-642 - Stage 2
	205 Remove Deck & Girders - Span m - B-642 - Stage 2			
A3.B642.SN.DDEK.20		1 09-21-19 09-2		I Demo Parapiet & Sawdut - Span n - B-642 - Stage 2
	205 Remove Deck & Girders - Span n - B-642 - Stage 2	1 09-23-19 09-23		I Remove Deck & Girders - Span n - B-642 - Stage 2
A3.B642.SO.DDEK.2		1 09-24-19 09-24	——	l Demó Párapet & Sawcut - Span o - B-642 - Sťage 2
	205 Remove Deck & Girders - Span o - B-642 - Stage 2	1 09-26-19 09-26		I Remove Deck & Girders - Span o - B-642 - Stage 2
A3.B642.SP.DDEK.20		1 09-27-19 09-2		l Demo Parapet & Sawcut - Span p - B-642 - Stage 2
A3.B642.SP.DGRD.2		1 09-28-19 09-28		I Remove Deck & Girders - Span p - B-642 - Stage 2
A3.B642.SQ.DDEK.2		1 09-30-19 09-30		Demo Parapet & Sawcut - Span q - B-642 - Stage 2
	205 Remove Deck & Girders - Span q - B-642 - Stage 2	1 10-01-19 10-0		Remove Deck & Girders - Span q - B-642 - Stage 2
Substructure		37 08-19-19 10-0	7-19	10-07-19, Substructure
	205 Demo Abutment & Approach Slab - Abut A - B-642 - Stage 2	5 08-19-19 08-24		Demo Abutment & Approach Slab - Abut A - B-642 - Stage 2
A3.B642.P01.DCAP.2	205 Demo Pier Cap - Pier 01 - B-642 - Stage 2	1 08-22-19 08-22	2-19	I Demo Pier Gap - Pier 01 - B-642 - Stage 2
A3.B642.P02.DCAP.2	205 Demo Pier Cap - Pier 02 - B-642 - Stage 2	1 08-24-19 08-24	1-19	I. Demo Pier Cap Pier 02 - B-642 - Stage 2
A3.B642.P03.DCAP.2	205 Demo Pier Cap - Pier 03 - B-642 - Stage 2	1 08-27-19 08-27	7-19	I, Demo Pier Cap - Pier 03 - B-642 - Stage 2
A3.B642.P04.DCAP.2	205 Demo Pier Cap - Pier 04 - B-642 - Stage 2	1 08-30-19 08-30	D-19	I Demo Pler Cap - Pier 04 - B-642 - Stage 2
A3.B642.P05.DCAP.2	205 Demo Pier Cap - Pier 05 - B-642 - Stage 2	1 09-03-19 09-03	3-19	J Demo Pier Cap - Pier 05 - B-642 - Stage 2
A3.B642.P06.DCAP.2	Demo Pier Cap - Pier 06 - B-642 - Stage 2	1 09-05-19 09-05	5-19	I Demo Pier Cap - Pier 06 - B-642 - Stage 2
A3.B642.P07.DCAP.2	205 Demo Pier Cap - Pier 07 - B-642 - Stage 2	1 09-07-19 09-07	7-19	I Demo Pier Cap - Pier 07 - B-642 - Stage 2
A3.B642.P08.DCAP.2	205 Demo Pier Cap - Pier 08 - B-642 - Stage 2	1 09-10-19 09-10	D-19	I Demo Pier Cap - Pier 08 - B-642 - Stage 2
A3.B642.P09.DCAP.2	205 Demo Pier Cap - Pier 09 - B-642 - Stage 2	1 09-13-19 09-13	3-19	I Demo Pier Cap - Pier 09 - B-642 - Stage 2
A3.B642.P10.DCAP.2	205 Demo Pier Cap - Pier 10 - B-642 - Stage 2	1 09-16-19 09-16	5-19	I Demo Pier Cap - Pier 10 - B-642 - Stage 2
A3.B642.P11.DCAP.2	205 Demo Pier Cap - Pier 11 - B-642 - Stage 2	1 09-19-19 09-19	9-19	I Demo Pier Cap - Pier 11 - B-642 - Stage 2
A3.B642.P12.DCAP.2	205 Demo Pier Cap - Pier 12 - B-642 - Stage 2	1 09-21-19 09-2	1-19	I Demd Pier Cap - Pier 12 - B-642 - Stage 2
A3.B642.P13.DCAP.2	205 Demo Pier Cap - Pier 13 - B-642 - Stage 2	1 09-24-19 09-24	4-19	I Demo Pier Cap - Pier 13 - B-642 - Stage 2
A3.B642.P14.DCAP.2	205 Demo Pier Cap - Pier 14 - B-642 - Stage 2	1 09-27-19 09-2	7-19	I Demo Pier Cap - Pier 14 - B-642 - Stage 2
A3.B642.P15.DCAP.2	205 Demo Pier Cap - Pier 15 - B-642 - Stage 2	1 09-30-19 09-30	D-19	Demo Pier Cap - Pier 15 - B-642 - Stage 2
A3.B642.P16.DCAP.2	205 Demo Pier Cap - Pier 16 - B-642 - Stage 2	1 10-02-19 10-02	2-19	Demo Pier Cap - Pier 16 - B-642 - Stage 2
A3.B642.ABB.DABT.2	205 Demo Abutment & Approach Slab - Abut B - B-642 - Stage 2	5 10-02-19 10-03	7-19	Derho Abutment & Approach Slab - Abut B - B-642 - Stage 2
Foundation		36 08-23-19 10-10	D-19	▼ 10-10-19, Foundation
Remaining Level of E	Effort Critical Remaining Work	State Project No.: 0064	965-229, P-101, R-201, C-501, B-638, B-639, B-640,	FULL SCHEDULE PF
Actual Work	♦ Milestone	B-641,	B-642, B-643, D-609, D-610, D-611	Page 40 c
Remaining Work	Summary	Fede	ral Project No.: NHPP-064-3 (498)	Print Date: 09-1
-		Cont	ract ID Number: C00106689DB97	

SK ctivity IE	ANSKA				I-64 Capac	nty Imp	rove	ments - S	v	 2018				2019
Ctivity IL)	Activity Name	Original Duration		Finish	Qtr 4		Qtr 1	Qtr 2	Qtr 3			Qtr 2	2 Qtr 3 Qtr 4 Qtr 1
	A3.B642.P01.DPLE.205	Remove Piles Below Mudline - Pier 01 - B-642 - Stage 2	1	09 22 10	08-23-19	ΟΝ	D,	JFM	AM	JJA	SON	DJF	MAM	J J A S O N D J F
	A3.B642.P02.DPLE.205	Remove Piles Below Mudline - Pier 01 - B-042 - Stage 2 Remove Piles Below Mudline - Pier 02 - B-642 - Stage 2		08-23-19										I Remove Piles Belo
	A3.B642.ABA.DPLE.205	Remove Abutment Piles - Abut A - B-642 - Stage 2			08-27-19									Remove Abutment
	A3.B642.P03.DPLE.205	Remove Piles Below Mudline - Pier 03 - B-642 - Stage 2			08-29-19									Remove Piles Belo
	A3.B642.P04.DPLE.205	Remove Piles Below Mudline - Pier 04 - B-642 - Stage 2			08-31-19									I Remove Piles Belo
	A3.B642.P05.DPLE.205	Remove Piles Below Mudline - Pier 05 - B-642 - Stage 2			09-04-19									I Remove Piles Belt
	A3.B642.P06.DPLE.205	Remove Piles Below Mudline - Pier 06 - B-642 - Stage 2		09-06-19										I Remove Piles Bek
	A3.B642.P07.DPLE.205	Remove Piles Below Mudline - Pier 07 - B-642 - Stage 2			09-09-19									I Remove Piles Be
	A3.B642.P08.DPLE.205	Remove Piles Below Mudline - Pier 08 - B-642 - Stage 2			09-12-19									I Remove Piles Be
	A3.B642.P09.DPLE.205	Remove Piles Below Mudline - Pier 09 - B-642 - Stage 2		09-14-19										I Remove Piles Be
	A3.B642.P10.DPLE.205	Remove Piles Below Mudline - Pier 10 - B-642 - Stage 2		09-17-19										I Remove Piles Be
	A3.B642.P11.DPLE.205	Remove Piles Below Mudline - Pier 11 - B-642 - Stage 2	1	09-20-19	09-20-19									I Remove Piles B
	A3.B642.P12.DPLE.205	Remove Piles Below Mudline - Pier 12 - B-642 - Stage 2			09-23-19									I Remove Piles B
	A3.B642.P13.DPLE.205	Remove Piles Below Mudline - Pier 13 - B-642 - Stage 2	1	09-26-19	09-26-19									l Remove Piles B
	A3.B642.P14.DPLE.205	Remove Piles Below Mudline - Pier 14 - B-642 - Stage 2	1	09-28-19	09-28-19									I Remove Piles B
	A3.B642.P15.DPLE.205	Remove Piles Below Mudline - Pier 15 - B-642 - Stage 2	1	10-01-19	10-01-19									Remove Piles F
	A3.B642.P16.DPLE.205	Remove Piles Below Mudline - Pier 16 - B-642 - Stage 2	1	10-03-19	10-03-19									Remove Piles I
	A3.B642.ABB.DPLE.205	Remove Abutment Piles - Abut B - B-642 - Stage 2	2	10-08-19	10-10-19									I Remove Abuth
	Foundation		80	10-02-19	01-18-20									V 01-
	B2.B642.TST.PLE.AA	Drive Test Pile - Abut A - B-642 - Phase 2	2	10-02-19	10-03-19									Drive Test Pile
	B2.B642.TST.PLE.P01	Drive Test Pie - Pier 01 - B-642 - Phase 2	2	10-04-19	10-05-19									Drive Test Pie
	B2.B642.TST.PLE.P02	Drive Test Pie - Pier 02 - B-642 - Phase 2	2	10-07-19	10-08-19									I Drive Test Pie
	B2.B642.TST.PLE.P03	Drive Test Pile - Pier 03 - B-642 - Phase 2		10-10-19										I Drive Test Pie
	B2.B642.TST.PLE.P04	Drive Test Pile - Pier 04 - B-642 - Phase 2			10-14-19									Drive Test Pile
╓⊢	B2.B642.TST.PLE.P05	Drive Test Pile - Pier 05 - B-642 - Phase 2			10-16-19									I Drive Test Pie
/ −	B2.B642.TST.PLE.AB	Drive Test Pile - Abut B - B-642 - Phase 2			10-16-19									Drive Test Pile
	B2.B642.RSTRK.005	Restrike Test Pile - Abut A & Piers 1 & 2 - B-642 - Phase 2			10-16-19									I Restrike Test
	B2.B642.TST.PLE.P06	Drive Test Pile - Pier 06 - B-642 - Phase 2			10-18-19									I Drive Test Pl
	B2.B642.TST.PLE.P00	Drive Test Pile - Pier 00 - B-042 - Phase 2 Drive Test Pile - Pier 07 - B-642 - Phase 2			10-18-19									Drive Test Pi
	B2.B642.TST.PLE.P07 B2.B642.TST.PLE.P08													
		Drive Test Pile - Pier 08 - B-642 - Phase 2			10-24-19									I Drive Test Pi
	B2.B642.TST.PLE.P09	Drive Test Pile - Pier 09 - B-642 - Phase 2			10-26-19									Drive Test P
	B2.B642.RSTRK.010	Restrike Test Pile - Piers 3 - 6 - B-642 - Phase 2			10-26-19									I Restrike Tes
	B2.B642.TST.PLE.P10	Drive Test Pile - Pier 10 - B-642 - Phase 2			10-29-19									Drive Test P
	B2.B642.TST.PLE.P11	Drive Test Pile - Pier 11 - B-642 - Phase 2			10-31-19									Drive Test
	B2.B642.RSTRK.020	Restrike Test Pile - Piers 7 - 9 - B-642 - Phase 2		11-02-19										I Restrike Te
	B2.B642.RSTRK.015	Restrike Test Pile - Abut B & Piers 10 & 11 - B-642 - Phase 2		11-08-19										I Restrike Te
	A3.B642.ABA.PLE.205	Drive Prod. Piles - Abut A - B-642 - Stage 2		11-09-19										I Drive Prod
	A3.B642.P01.PLE.205	Drive Prod. Piles - Pier 01 - B-642 - Stage 2		11-13-19										I Drive Proc
	A3.B642.P02.PLE.205	Drive Prod. Piles - Pier 02 - B-642 - Stage 2		11-18-19										I Drive Pro
	A3.B642.P03.PLE.205	Drive Prod. Piles - Pier 03 - B-642 - Stage 2		11-23-19										I Drive Pro
	A3.B642.P04.PLE.205	Drive Prod. Piles - Pier 04 - B-642 - Stage 2			12-05-19									I Drive Pr
	A3.B642.P05.PLE.205	Drive Prod. Piles - Pier 05 - B-642 - Stage 2			12-10-19									I Drive P
	A3.B642.P06.PLE.205	Drive Prod. Piles - Pier 06 - B-642 - Stage 2	4	12-12-19	12-16-19									I Drive F
	A3.B642.P07.PLE.205	Drive Prod. Piles - Pier 07 - B-642 - Stage 2	4	12-17-19	12-21-19									I Drive
	A3.B642.P08.PLE.205	Drive Prod. Piles - Pier 08 - B-642 - Stage 2	4	12-23-19	12-28-19									Drive
	Remaining Level of Effort	Critical Remaining Work	State I	Project No.	: 0064-965-	229, P	-101,	R-201,	C-501, B	-638, B-6	639, B-640),		
	Actual Work	♦ Milestone		I	B-641, B-64									
	Remaining Work	Summary			Federal P	-								
					Contract	ID Num	nber:	C00106	689DB97	7				

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tment Piles - Abut B - B-642 - Stag	+				- +	
1-18-20, Foundation						
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e - Pier 01 - B-642 - Phase 2						
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Test Pile - Abut B & Piers 10 & 11 -	B-642 -	Phas	e 2			
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<u>SKANSKA</u>	Activity Nome	I-64 Cap						Proposal Date: September 14, 2019 2020 2021
vity ID	Activity Name	Original Start Finish Duration		Qtr 4	Qtr 1 Qtr 2		Qtr 1 Qtr 2	2 Qtr 3 Qtr 4 Qtr 1 Qtr 2 Qtr 3 Qtr 4 Qtr 1 Qtr 2 Qtr 3
A3.B642.P09.PLE.205	Drive Prod. Piles - Pier 09 - B-642 - Stage 2	4 12-30-19 01-03-2		ND	JFMAMJ	JASOND	JFMAM	J J A S O N D J F M A M J J A S O N D J F M A M J J A Drive Prod, Piles - Pier 09 - B-642 - Stage 2
A3.B642.P10.PLE.205	Drive Prod. Piles - Pier 10 - B-642 - Stage 2	4 01-04-20 01-09-2	_					Drive Prod. Piles - Pier 10 - B-642 - Stage 2
A3.B642.P11.PLE.205	Drive Prod. Piles - Pier 11 - B-642 - Stage 2	4 01-10-20 01-14-2						Drive Prod. Piles - Pier 11 + B-642 - Stage 2
A3.B642.ABB.PLE.205	Drive Prod. Piles - Abut B - B-642 - Stage 2	3 01-16-20 01-18-2						I Drive Prod. Pileş - Abut B + B-642 - Stage 2
Substructure		91 11-13-19 02-11-2						V 12-11-20, Substructure
A3.B642.ABA.ABUT.205	Construct Abutment - Abut A - B-642 - Stage 2	15 11-13-19 12-03-						Construct Abutment - Abut A - B-642 - Stage 2
A3.B642.P01.CAP.205	Construct Pier Cap - Pier 01 - B-642 - Stage 2	7 11-18-19 11-26-1						Construct Pier Cap - Pier 01 - B-642 - Stage 2
A3.B642.P02.CAP.205	Construct Pier Cap - Pier 02 - B-642 - Stage 2	7 11-25-19 12-05-	- - -					Construct Pier Cap - Pier 02 - B-642 - Stage 2
A3.B642.P03.CAP.205	Construct Pier Cap - Pier 03 - B-642 - Stage 2	7 12-03-19 12-12-1						Construct Pier Cap + Pier 03 - B-642 + Stage 2
A3.B642.ABA.BKF.205	Backfill Abutment - Abut A - B-642 - Stage 2	2 12-05-19 12-09-1						Backfill Abutment - Abut A - B-642 - Stage 2
A3.B642.P04.CAP.205	Construct Pier Cap - Pier 04 - B-642 - Stage 2	7 12-10-19 12-19-1						Construct Pier Cap'- Pier 04 - B-642 - Stage 2
A3.B642.P05.CAP.205	Construct Pier Cap - Pier 05 - B-642 - Stage 2	7 12-17-19 12-27-						Construct Pier Cap - Pier 05 - B+642 - Stage 2
A3.B642.P06.CAP.205	Construct Pier Cap - Pier 06 - B-642 - Stage 2	7 12-26-19 01-03-2						Construct Pier Cap - Pier 06 - B-642 - Stage 2
A3.B642.P07.CAP.205	Construct Pier Cap - Pier 07 - B-642 - Stage 2	7 01-02-20 01-10-2						Construct Pier Cap + Pier 07 - B-642 + Stage 2
A3.B642.P08.CAP.205	Construct Pier Cap - Pier 08 - B-642 - Stage 2	7 01-09-20 01-17-2						Construct Pier Cap - Pier Ø8 - B-642 - Stage 2
A3.B642.P09.CAP.205	Construct Pier Cap - Pier 09 - B-642 - Stage 2	7 01-16-20 01-24-2						Construct Pier Cap - Pier 09 - B-642 - Stage 2
A3.B642.ABB.ABUT.205	Construct Abutment - Abut B - B-642 - Stage 2	15 01-21-20 02-07-2						Construct Abutment - Abut B - B-642 - Stage 2
A3.B642.P10.CAP.205	Construct Pier Cap - Pier 10 - B-642 - Stage 2	7 01-23-20 01-31-2				· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	Construct Pier Cap - Pier 10 - B-642 - Stage 2
A3.B642.P11.CAP.205	Construct Pier Cap - Pier 11 - B-642 - Stage 2	7 01-30-20 02-06-2						Construct Pier Cap - Pier 11 - B-642 - Stage 2
A3.B642.ABB.BKF.205	Backfill Abutment - Abut B - B-642 - Stage 2	2 02-10-20 02-11-2						Backfill Abutment - Abut B - B-642 - Stage 2
Superstructure		227 12-05-19 07-18-2						v 07-18-20, Superstructure
A3.B642.SA.GRD.205	Install Conc. Girders - Span a - B-642 - Stage 2	3 12-05-19 12-07-1						Install Conc. Girdersi- Span a - B-642 - Stage 2
A3.B642.SB.GRD.205	Install Conc. Girders - Span b - B-642 - Stage 2	3 12-09-19 12-12-						Install Conc. Girders - Span a - B-642 - Stage 2
A3.B642.SA.DEK.205	Install Bridge Deck - Span a - B-642 - Stage 2	15 12-09-19 01-30-2						Install Collic. Girders - Spart D - B-042 - Stage 2
A3.B642.SC.GRD.205	Install Conc. Girders - Span c - B-642 - Stage 2	3 12-13-19 12-16-1						
A3.B642.SD.GRD.205	Install Conc. Girders - Span d - B-642 - Stage 2	3 12-20-19 12-23-	_					I Install Conc. Girders - Span d. B 642 - Stage 2
A3.B642.SE.GRD.205	Install Conc. Girders - Span e - B-642 - Stage 2	3 12-20-19 12-23-						I Install Conc. Girders - Span d - B-642 - Stage 2 I Install Conc. Girders - Span e - B-642 - Stage 2
A3.B642.SF.GRD.205	Install Conc. Girders - Span e - B-042 - Stage 2 Install Conc. Girders - Span f - B-642 - Stage 2	3 01-04-20 01-07-2	-					Install Conc. Girders - Span B-642 - Stage 2
A3.B642.SG.GRD.205		3 01-04-20 01-07-2						
A3.B642.SG.GRD.205	Install Conc. Girders - Span g - B-642 - Stage 2							 Install Conc. Girders - Span g - B-642 - Stage 2 Install Conc. Girders - Span h - B-642 - Stage 2
A3.B642.SI.GRD.205	Install Conc. Girders - Span h - B-642 - Stage 2 Install Conc. Girders - Span i - B-642 - Stage 2	3 01-18-20 01-22-2 3 01-25-20 01-28-2	_					I Install Conc. Girders - Span n - B-642 - Stage 2
A3.B642.SB.DEK.205	Install Bridge Deck - Span b - B-642 - Stage 2		_					
		12 01-25-20 02-20-2						Install Bridge Deck - Span b - B-642 - Stage 2
A3.B642.SA.CUR.205 A3.B642.SJ.GRD.205	Cure Bridge Deck - Span a - B-642 - Stage 2 Install Conc. Girders - Span j - B-642 - Stage 2	7 01-31-20 02-06-2 3 02-01-20 02-04-2						Cure Bridge Deck - \$pan a - B ; 642 - \$tage 2
A3.B642.SC.DEK.205	Install Collect. Girders - Span J - B-642 - Stage 2 Install Bridge Deck - Span c - B-642 - Stage 2	12 02-06-20 03-03-2						 Install Conc. Girders - Span j - B-642 - Stage 2 Install Bridge Deck - Span c - B-642 - Stage 2
A3.B642.SC.DER.205	Install Conc. Girders - Span k - B-642 - Stage 2	3 02-07-20 02-10-2						 Install Conc. Girders - Span k - B-642 - Stage 2 Install Conc. Girders - Span k - B-642 - Stage 2
A3.B642.SA.BAR.205	Install Parapet - Span a - B-642 - Stage 2	2 02-07-20 02-08-2						I Install Parapet - Span a - B-642 - Stage 2
A3.B642.ABA.APR.205	Install Parapet - Spart a - B-042 - Stage 2 Install Backwall, Joints, and Approach Slab - Abut A - B-642 - Stage 2							Install Backwall, Joints, and Approach Slab - Abut A- B-642
A3.B642.SL.GRD.205	Install Conc. Girders - Span I - B-642 - Stage 2	3 02-11-20 02-14-2						I Install Conc. Girders - Span I - B-642 - Stage 2
A3.B642.SB.CUR.205	Cure Bridge Deck - Span b - B-642 - Stage 2	7 02-21-20 02-27-2						Install Cond. Childers - Span's - B-042 - Stage 2 Il: Cure Bridge Deck - Span's - B-642 - Stage 2
A3.B642.SD.DEK.205	Install Bridge Deck - Span b - B-642 - Stage 2	12 02-22-20 03-14-2						Install Bridge Deck - Span B - B-642 - Stage 2
A3.B642.SB.BAR.205	Install Parapet - Span b - B-642 - Stage 2	2 02-28-20 02-29-2						 Install Pirapet - Span b - B-642 - Stage 2
A3.B642.SC.CUR.205	Cure Bridge Deck - Span c - B-642 - Stage 2	7 03-04-20 03-10-2						Cure Bridge Deck - Span c - B-642 - Stage 2
A3.B642.SE.DEK.205	Install Bridge Deck - Span e - B-642 - Stage 2	12 03-05-20 03-23-2						 Eule Bildge Deck - Span 6 - B-642 - Stage 2 Install Bridge Deck - Span e - B-642 - Stage 2
A3.B642.ABA.BAR.205	Install Approach Parapet - Abut A - B-642 - Stage 2	1 03-06-20 03-06-2						I Install Approach Parapet - AbutA - B-642 - Stage 2
Remaining Level of Effort	t Critical Remaining Work	State Project No.: 0064-9	65-229), P-10	1, R-201, C-501, B-	638, B-639, B-640.		FULL SCHEDULE PF
Actual Work	 ♦ Milestone 	•			D-609, D-610, D-61			Page 42 c

SKANSKA ctivity ID	Activity Name	Origina	I Start	I-64 Capac					2018	3					201	9				
		Duration				r 4	Qtr 1			Qtr 3	Qt		Qtr 1			Qtr 3		tr 4	Qtr	
A3.B642.SC.BAR.2	D5 Install Parapet - Span c - B-642 - Stage 2	2	03-11-20	03-12-20			JIF	MAN				1 D	JIFI		vijj	JA	SIO		JF	
A3.B642.SD.CUR.2			03-15-20																	
A3.B642.SF.DEK.2			03-16-20										+-+-						+	
A3.B642.SD.BAR.2			03-23-20																	1
A3.B642.SG.DEK.2			03-24-20																	
A3.B642.SE.CUR.2			03-24-20																	
A3.B642.SE.BAR.2			03-31-20																	
A3.B642.SF.CUR.2			04-01-20																	
A3.B642.SH.DEK.2			2 04-02-20																	
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A3.B642.ABB.APR		-	06-05-20										++-							
B2.B642.SWAL.20 A3.B642.ABB.BAR			06-08-20																	
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A3.B642.SAQ.GRV	205 Grind & Groove Bridge Deck - Spans a-I - B-642 - Stage 2		07-02-20																	
Area C			05-24-19																	1
Roadway		718	05-24-19	05-10-21																
Preparation		190	10-07-19	10-08-20																1
64E.C3.CLGR.205	Clear & Grub Trees - I-64 EB Outside (Area C-3) - Phase 2	2	10-07-19	10-08-19													ΙC	lear &	Grub	Tre
64E.C1.CLGR.205	Clear & Grub Trees - I-64 EB Outside (Area C-1) - Phase 2	2	03-03-20	03-05-20																
64W.C1.CLGR.205	Clear & Grub Trees - I-64 WB Outside (Area C-1) - Phase 2	2	05-11-20	05-12-20															: !	
64W.C3.CLGR.205	Clear & Grub Trees - I-64 WB Outside (Area C-3) - Phase 2	2	10-06-20	10-08-20									++-							
Maintenance of 1	raffic	704	05-24-19	04-26-21																-
64E.C3.TSTR.205	Eradicate & Install Temp. Striping (Shifting Traffic to Median) - I-6	64 EB Ou 2	05-24-19	05-28-19											l Era	adicate	e & Insta	all Ter	np. St	ripin
64W.C3.TSTR.205	Eradicate & Install Temp. Striping (Shifting Traffic to Median) - I-6	64 WB Oi 2	05-28-19	05-30-19											t Er	adicate	e & Inst	all Ter	np. St	ripin
64E.C3.TBAR.205	Install Temp. Barrier Wall - I-64 EB Outside (Area C-3) - Phase 2	2 3	10-04-19	10-08-19													l ir	nstall T	emp.	Barr
64E.C1.TSTR.205	Eradicate & Install Temp. Striping (Shifting Traffic to Median) - I-6	64 EB Ou 2	12-09-19	12-10-19														11	Eradic	ate
64E.C1.TBAR.205	Install Temp. Barrier Wall - I-64 EB Outside (Area C-1) - Phase 2	2 3	03-02-20	03-05-20																D I
64E.C3.RBAR.205	Remove Temp Barrier - I-64 EB Outside (Area C-3) - Phase 2	3	04-20-20	04-22-20																
64W.C1.TSTR.205	Eradicate & Install Temp. Striping (Shifting Traffic to Median) - I-6	64 WB Oi 2	04-21-20	04-23-20																-
Remaining Level	f Effort Critical Remaining Work	State	Project No.:	0064-965-	229.	P-101	. R-20	1. C-501	1. B-63	8. B-63	9. B-6	40.								
Actual Work			-	3-641, B-64						.,	., _ 0	-,								
Remaining Work	Summary			Federal P																
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SKANSKA	Activity Name	Original Start	I-64 Capac	ity inip	overn	ents - a	0	2018					2	019				
	Activity Name	Duration	FILIST	Qtr 4		Qtr 1	Qtr 2		Qtr 3	Qtr 4	Qt		Qtr 2	Q		Qtr		Qtr 1
64E.C3.TSTR.210	Eradicate & Install Temp. Striping (Shifting Traffic to Final Configuration	n) - <u>2 04-23-20</u>	04-24-20	ON	DJ	FM	AM	JJJ	AS			FIMI	ΑΙΜΙ	JJJ	AS	ON	1 D	<u> I F</u>
64W.C1.TBAR.205	Install Temp. Barrier Wall - I-64 WB Outside (Area C-1) - Phase 2	3 05-08-20																
64E.C1.RBAR.205	Remove Temp Barrier - I-64 EB Outside (Area C-1) - Phase 2	3 06-01-20																
64E.C1.TSTR.210	Eradicate & Install Temp. Striping (Shifting Traffic to Final Configuration																	
64W.C1.RBAR.205	Remove Temp Barrier - I-64 WB Outside (Area C-1) - Phase 2	3 08-13-20																
64W.C1.TSTR.210	Eradicate & Install Temp. Striping (Shifting Traffic to Final Configuration																	
64W.C3.TBAR.205	Install Temp. Barrier Wall - I-64 WB Outside (Area C-3) - Phase 2	3 10-05-20																
64W.C3.RBAR.205		3 04-19-21																
64W.C3.TSTR.210	Remove Temp Barrier - I-64 WB Outside (Area C-3) - Phase 2																	
	Eradicate & Install Temp. Striping (Shifting Traffic to Final Configuration	,														_		
Demolition		227 10-10-19																_
64E.C3.DRDW.205	Demo Existing Roadway - I-64 EB Outside (Area C-3) - Phase 2	9 10-10-19															Demo E	Existin
64E.C1.DRDW.205	Demo Existing Roadway - I-64 EB Outside (Area C-1) - Phase 2	9 03-06-20																
64W.C1.DRDW.205	Demo Existing Roadway - I-64 WB Outside (Area C-1) - Phase 2	9 05-14-20																
64W.C3.DRDW.205	Demo Existing Roadway - I-64 WB Outside (Area C-3) - Phase 2	9 10-09-20	10-22-20															
Roadway		572 10-17-19	05-10-21															
64E.C3.ECUT.205	Earthwork Cut - I-64 EB Outside (Area C-3) - Phase 2	6 10-17-19	10-28-19													E	Earthw	/ork C
64E.C3.EFIL.205	Earthwork Fill - I-64 EB Outside (Area C-3) - Phase 2	6 11-11-19	11-19-19														l Eart	hworl
64E.C3.RGRD.205	Rough Grade Roadway - I-64 EB Outside (Area C-3) - Phase 2	6 12-13-19	12-23-19															Rougi
64E.C3.BASE.205	Install Sub-Base - I-64 EB Outside (Area C-3) - Phase 2	8 12-20-19	01-06-20															Inst
64E.C3.OGDL.205	Install Open Graded Drainage Layer - I-64 EB Outside (Area C-3) - Pl	has 2 01-17-20	01-21-20															l Ins
64E.C3.ASBM.205	Install Base Mix Asphalt - I-64 EB Outside (Area C-3) - Phase 2	4 01-23-20	01-28-20															I In
64E.C1.ECUT.205	Earthwork Cut - I-64 EB Outside (Area C-1) - Phase 2	6 03-13-20	03-24-20															
64E.C3.ASIM.205	Install Intermediate Mix Asphalt - I-64 EB Outside (Area C-3) - Phase 2	2 2 04-02-20	04-07-20									++-						
64E.C3.ASGR.205	Install Asphalt at Guardrail - I-64 EB Outside (Area C-3) - Phase 2	2 04-09-20	04-10-20															
64E.C1.EFIL.205	Earthwork Fill - I-64 EB Outside (Area C-1) - Phase 2	6 04-10-20	04-21-20															
64E.C3.GRAIL.205	Install Guardrail - I-64 EB Outside (Area C-3) - Phase 2	3 04-13-20	04-17-20															
64E.C1.RGRD.205	Rough Grade Roadway - I-64 EB Outside (Area C-1) - Phase 2	6 04-17-20	04-24-20															
64E.C1.BARR.205	Install Permanent Barrier Wall - I-64 EB Outside (Area C-1) - Phase 2	3 04-24-20	04-28-20															
64E.C1.BASE.205	Install Sub-Base - I-64 EB Outside (Area C-1) - Phase 2	8 04-24-20																
64E.C3.ASSM.210	Install Surface Mix Asphalt - I-64 EB (Area C-3) - Phase 2	3 04-27-20																
64E.C3.PSTR.210	Install Final Striping - I-64 EB (Area C-3) - Phase 2	6 04-28-20																
64E.C1.OGDL.205	Install Open Graded Drainage Layer - I-64 EB Outside (Area C-1) - Pl																	
64E.C1.ASBM.205	Install Base Mix Asphalt - I-64 EB Outside (Area C-1) - Phase 2	4 05-12-20																
64E.C1.ASIM.205	Install Intermediate Mix Asphalt - I-64 EB Outside (Area C-1) - Phase 2																	
64E.C1.ASGR.205	Install Asphalt at Guardrail - I-64 EB Outside (Area C-1) - Phase 2	2 05-22-20																
64W.C1.ECUT.205	Earthwork Cut - I-64 WB Outside (Area C-1) - Phase 2	6 05-22-20																
64E.C1.GRAIL.205	Install Guardrail - I-64 EB Outside (Area C-1) - Phase 2	2 05-28-20																
64E.C1.ASSM.210	Install Surface Mix Asphalt - I-64 EB (Area C-1) - Phase 2	3 06-08-20										· - -						
64E.C1.PSTR.210	Install Final Striping - I-64 EB (Area C-1) - Phase 2	6 06-09-20																
64W.C1.EFIL.205		6 06-23-20																
64W.C1.RGRD.205	Earthwork Fill - I-64 WB Outside (Area C-1) - Phase 2																	
	Rough Grade Roadway - I-64 WB Outside (Area C-1) - Phase 2	6 06-29-20																
64W.C1.BASE.205	Install Sub-Base - I-64 WB Outside (Area C-1) - Phase 2	8 07-07-20																
64W.C1.BARR.205	Install Permanent Barrier Wall - I-64 W B Outside (Area C-1) - Phase 2																	
64W.C1.OGDL.205	Install Open Graded Drainage Layer - I-64 WB Outside (Area C-1) - F																	
64W.C1.ASBM.205	Install Base Mix Asphalt - I-64 WB Outside (Area C-1) - Phase 2	4 07-27-20	07-31-20														<u> </u>	
Remaining Level of Effo	ort Critical Remaining Work	State Project No.	0064-965-	229 P	-101 F	R-201	C-501	3-638	B-639	B-640								
Actual Work	Milestone		3-641, B-64						, _ 500	, _ 010,								
Remaining Work	▼ Summary		Federal P															
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rk	Fļ	-	1-64	¢ EE	3 O i	ıtsi¢	de (Are	a C-3)	- Pha	se 2					
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KANSKA				I-64 Capac	city Imp	provemen	nts - Segr	ent III													Propos	sal Da	te: Sept	ember 14,
ity ID	Activity Name	Original	Start	Finish	Otr	4 0		2018			Otr	2019				. 4		2020	14m 0			74 1	202	
		Duration			Qtr O N		tr1 Qt FIM AIM		Qtr 3 J A S				Qtr 3	Qtr 4			Qtr 2			Qtr ON		⊋tr1 IFIM	Qtr 2	2 Qtr 3 J J A
64W.C1.ASIM.205	Install Intermediate Mix Asphalt - I-64 WB Outside (Area C-1) - Pha	ase 2 2	08-03-20	08-04-20																				- I-64 WB (
64W.C1.ASGR.205	Install Asphalt at Guardrail - I-64 WB Outside (Area C-1) - Phase 2	2 2	08-06-20	08-07-20															l İns	all Asp	halt at C	Şuardı	ail - I-64	4 ₩B Outs
64W.C1.GRAIL.205	Install Guardrail - I-64 WB Outside (Area C-1) - Phase 2	2	08-10-20	08-11-20															l Ins	tall Gu	rdrail -	I-64 V	VB Outs	side (Area
64W.C1.ASSM.210	Install Surface Mix Asphalt - I-64 WB (Area C-1) - Phase 2	3	08-20-20	08-24-20															0 1	stal Si	rfaçe N	vix As	halt - I-	64 WB (Ar
64W.C1.PSTR.210	Install Final Striping - I-64 WB (Area C-1) - Phase 2	6	08-21-20	08-31-20																hstall F	inal Str	iping -	1-64 W	3 (Area C-
64W.C3.ECUT.205	Earthwork Cut - I-64 WB Outside (Area C-3) - Phase 2	6	10-16-20	10-27-20																E	arthwo	rk Cut	- I-64 V	VB Outside
64W.C3.EFIL.205	Earthwork Fill - I-64 WB Outside (Area C-3) - Phase 2	6	11-10-20	11-20-20																	Earth	work F	ill - 1-64	WB Outsi
64W.C3.RGRD.205	Rough Grade Roadway - I-64 WB Outside (Area C-3) - Phase 2	6	11-16-20	11-30-20								 									Roug	gh Gra	de Roa	dway - I-6
64W.C3.BASE.205	Install Sub-Base - I-64 WB Outside (Area C-3) - Phase 2	8	11-24-20	12-11-20																1	🗐 İnst	tall Sul	-Base	I-64 WB
64W.C3.OGDL.205	Install Open Graded Drainage Layer - I-64 WB Outside (Area C-3)	- Pha: 2	12-14-20	12-15-20																	l Ins	tall Op	en Grad	ded Draina
64W.C3.ASBM.205	Install Base Mix Asphalt - I-64 WB Outside (Area C-3) - Phase 2	4	12-17-20	12-22-20																	I In	stall Ba	ase Mix	Asphalt - I
64W.C3.ASIM.205	Install Intermediate Mix Asphalt - I-64 WB Outside (Area C-3) - Pha	ise 2 2	04-01-21	04-06-21																			Insta	all Intermed
64W.C3.ASGR.205	Install Asphalt at Guardrail - I-64 WB Outside (Area C-3) - Phase 2	2	04-08-21	04-09-21		iii-						 		;; ; ; ; ;						÷	++	ii 	I Insta	all Asphalt
64W.C3.GRAIL.205	Install Guardrail - I-64 WB Outside (Area C-3) - Phase 2	3	04-12-21	04-16-21																			I Inst	tall Guardr
64W.C3.ASSM.210	Install Surface Mix Asphalt - I-64 WB (Area C-3) - Phase 2	3	04-27-21	04-30-21																			i i i	stall Surfa
64W.C3.PSTR.210	Install Final Striping - I-64 WB (Area C-3) - Phase 2	6	04-29-21	05-10-21																			i 🗖 i	nstall Final
Storm Drainage		295	10-17-19	05-10-21												-			_					05-10-21,
	Construct Pond C3-3 - I-64 EB Outside (Area C-3) 1464+00 - Phas	se 2 15	10-17-19	11-12-19								 			nstruc	t Pond	103-3-	- 1-64	FR C	utside	Area (.3\ 14	.i i i	Phase 2
64E.C3.STORM.205	Install Storm Drain Pipe & Structures - I-64 EB Outside (Area C-3)) 11-14-19											1 1		1 1			1 1			1 1 1	C-3) - Pha
	Construct Pond C1-2 - I-64 EB Outside (Area C-1) 1416+50 - Phas			04-09-20												1.1.1	-1 - 1 ¹	1 1	1	1		1	1.11	a C-1) 141
64E.C1.STORM.205	Install Storm Drain Pipe & Structures - I-64 EB Outside (Area C-1)			04-14-20												-i -i	-i i -	-i -i		i i .	; ; ;	i i -	1 1 1	EB Outside
64E.C3.OFAL.205	Perform Outfall Restoration - I-64 EB Outside (Area C-3) - Phase 2			04-30-20													1 1	1 1		1 11		: :	1 1 1	ide (Area
64W.C1.SWMP.C1-1.205	Construct Pond C1-1 - I-64 WB Outside (Area C-1) 2410+00 - Pha			06-22-20								 								÷				side (Area
64W.C1.STORM.205	Install Storm Drain Pipe & Structures - I-64 WB Outside (Area C-1)			06-26-20																: : :		: :	1 1 1	s - 1-64 WI
64E.C1.OFAL.205	Perform Outfall Restoration - I-64 EB Outside (Area C-1) - Phase 2			06-15-20													1.1	1.1		1		1.1.1	1 1 1	Outside (/
64W.C1.OFAL.205	Perform Outfall Restoration - I-64 WB Outside (Area C-1) - Phase			08-25-20															- i	i i .	; ; ;	i i -	i i i	I-64 WB C
64W.C3.SWMP.C3-1.205	Construct Pond C3-1 - I-64 WB Outside (Area C-3) 2435+50 - Pha) 11-12-20																1 1		: :	1 1 1	1 - I-64 WI
64W.C3.SWMP.C3-2.205	Construct Pond C3-2 - I-64 WB Outside (Area C-3) 2441+00 - Pha) 11-12-20								 											. <u></u>	2 - 1-64 WI
64W.C3.STORM.205	Install Storm Drain Pipe & Structures - I-64 WB Outside (Area C-3)) 11-12-20																		: :	1 1 1	ipe & Stru
64W.C3.OFAL.205	Perform Outfall & Head Cut Restoration - I-64 WB Outside (Area C-3)			05-10-21																	install	Storm	1 1 1	Perform O
	Ferlorin Outian & Head Out Restoration - 1-04 WB Outside (Area C	,		12-10-19											42 40	10 9	ound W	/41						enjoinit
Sound Wall														1 <u>1</u> 1	1 1		1 1	1 1						
64E.C3.GMSW.205	Install Ground Mounted Sound Wall Posts (1431+99 - 1443+21) - I			11-05-19								 						}		+	++			1) - I-64 El
64E.C3.GMSW.210	Install Ground Mounted Sound Wall Panels (1431+99 - 1443+21) -			11-08-19										1 1 1	1 I I	- I - I -	1.1.1			1 I I	i î i	1 I I	1	21) - 1-64
64E.C3.GMSW.215	Install Ground Mounted Sound Wall Posts (1446+25 - 1457+48) - I-			12-05-19											1 1					1 1			1 1 1	'+48) - I-64
64E.C3.GMSW.220	Install Ground Mounted Sound Wall Panels (1446+25 - 1457+48) -			12-10-19																			25 - 145	57+48) - He
Bridges				08-25-20																8-25-2), Briag	es		
I-64 EBL Over Lakeshe	ad Dr (B-641) (Rehab/Widen)	204	11-25-19	06-15-20		J. J						 						06-	15-20	, I-64 E	BL Ove	erLake	shead	Dr (B-641)
Superstructure		204	11-25-19	06-15-20														06-	15-¦20	, Super	structu	ire		
A3.B641.PATCH.200	Perform Spall Repair on Sub-Structure & Superstructure - B-641 -	Stage 20	11-25-19	12-31-19											Per	form S	pall Re	pair ¢	on \$u	-Struc	ure & S	Supers	tructure	e - B-641 -
A3.B641.PATCH.205	Remove Overlay & Perform Deck Patching - B-641 - Stage 2	12	03-06-20	03-26-20													Remov	eOv	erlay	k Perfo	m Dec	k Pato	hinģ - B	8-641 - Sta
A3.B641.OVERLAY.205	Overlay Bridge Deck - B-641 - Stage 2	5	06-05-20	06-15-20														Ov	erlay	Bridge I)eck - I	B-641	- Stage	2
I-64 WBL Over Lakeshe	ad Dr (B-638) (Rehab/Widen)	260	12-10-19	08-25-20										-						8-25-2), I-64 \	WBL C	ver Lak	keshead D
Superstructure		260	12-10-19	08-25-20	[[!!						-	8-25-2), Supe	rstruc	ture	·
A3.B638.PATCH.200	Perform Spall Repair on Sub-Structure & Superstructure - B-641 -	Stage 20	12-10-19	01-14-20											P	erform	Spall R	Repair	onS	ub-Stru	cture 8	Supe	rstructu	re - B-641
A3.B638.PATCH.205	Remove Overlay & Perform Deck Patching - B-638 - Stage 2	15	05-14-20	06-09-20																i i .		1 1	1 1 1	ching - B-6
Remaining Level of Effort	Critical Remaining Work	State F	Project No	: 0064-965-	-229 P	-101 R-	201 C-50	1 B-63	8 B-63	9 B-640					1 1	1 1	1 1		1					EDULE P
Actual Work	Milestone	Giale I		B-641, B-64					.o, D-00	с, в 0 4 0,												10	001	Page 45
Remaining Work							PP-064-3 (Print	Date: 09-1
	Summary						01066890																	

KANSKA	Activity Name	Original	Start	I-64 Capac	ity impro	overne	ans - C	•	2018			-			20	019				
ly ID	Activity Mame	Duration		FILISI	Qtr 4		tr 1	Qtr 2	C	Qtr 3		tr 4	Qtr 1		Qtr 2	Qtr		tr 4	Qti	
A3.B638.OVERLAY.205	Overlay Bridge Deck - B-638 - Stage 2	5	08-18-20	08-25-20	ON	DJJ	FM	AM	JJJ			ND	JIF	MA	[M] J	JA	SO	ND	JII	Ļ
tage 3 - Construction			07-23-20																	
Area B			07-23-20																	
			07-23-20																	
Roadway																				
Maintenance of Traff			07-23-20																	
64E.B3.TSTR.305	Eradicate & Install Temp. Striping (Shifting Traffic to Outside) - I-64 EB Ou		07-23-20																	
64E.B1.TSTR.305	Eradicate & Install Temp. Striping (Shifting Traffic to Outside) - I-64 EB Outside		07-27-20							 					¦ : 					
64W.B1.TSTR.305	Eradicate & Install Temp. Striping (Shifting Traffic to Temp Crossover/Nev		08-04-20																	
64W.B1.TBAR.305	Install Temp. Barrier Wall - I-64 WB Outside (Area B-1) - Phase 3		08-07-20																	
64W.B3.TSTR.305	Eradicate & Install Temp. Striping (Shifting Traffic to Temp Crossover/Nev		08-10-20																	
64W.B3.TBAR.305	Install Temp. Barrier Wall - I-64 WB Outside (Area B-3) - Phase 3		08-11-20																	
64W.B1.RBAR.305	Remove Temp. Barrier Wall - I-64 WB Outside (Area B-1) - Phase 3	4	05-25-21	05-28-21						 !	¦				 	 	 			1
64W.B3.RBAR.305	Remove Temp. Barrier Wall - I-64 WB Outside (Area B-3) - Phase 3	2	05-25-21	05-26-21																
64W.B1.TSTR.310	Eradicate & Install Temp. Striping (Shifting Traffic to Final Configuration) -	2	06-01-21	06-03-21														1		1
64W.B3.TSTR.310	Eradicate & Install Temp. Striping (Shifting Traffic to Final Configuration) -	1	06-04-21	06-04-21																
64E.B1.TSTR.310	Eradicate & Install Temp. Striping (Shifting Traffic to Final Configuration) -	2	06-07-21	06-08-21																
64E.B3.TSTR.310	Eradicate & Install Temp. Striping (Shifting Traffic to Final Configuration) -	1	06-10-21	06-10-21																
Demolition		80	08-14-20	12-23-20																1
64W.B1.DRDW.305	Demo Existing Roadway - I-64 WB Outside (Area B-1) - Phase 3	11	08-14-20	08-31-20																
64W.B3.DRDW.305	Demo Existing Roadway - I-64 WB Outside (Area B-3) - Phase 3	7	12-14-20	12-23-20																
Roadway			08-25-20																	
64W.B1.ECUT.305	Earthwork Cut - I-64 WB Outside (Area B-1) - Phase 3		08-25-20																	
64W.B1.EFIL.305	Earthwork Fill - I-64 WB Outside (Area B-1) - Phase 3		09-04-20		·					 										
64W.B1.RGRD.305	Rough Grade Roadway - I-64 WB Outside (Area B-1) - Phase 3		09-04-20																	
64W.B1.BASE.305	Install Sub-Base - I-64 WB Outside (Area B-1) - Phase 3		09-10-20																	
64W.B1.OGDL.305			10-05-20																	ł
	Install Open Graded Drainage Layer - I-64 WB Outside (Area B-1) - Phase		10-05-20																	
64W.B1.ASBM.305	Install Base Mix Asphalt - I-64 WB Outside (Area B-1) - Phase 3				· <mark></mark>								. .							÷
64W.B1.ASIM.305	Install Intermediate Mix Asphalt - I-64 WB Outside (Area B-1) - Phase 3		10-16-20																	
64W.B1.ASGR.305	Install Asphalt at Guardrail - I-64 WB Outside (Area B-1) - Phase 3		10-20-20																	
64W.B1.GRAIL.305	Install Guardrail - I-64 WB Outside (Area B-1) - Phase 3		10-27-20																	
64W.B3.ECUT.305	Earthwork Cut - I-64 WB Outside (Area B-3) - Phase 3		12-28-20																	Ì
64W.B3.EFIL.305	Earthwork Fill - I-64 WB Outside (Area B-3) - Phase 3		01-07-21							 					¦ :					
64W.B3.RGRD.305	Rough Grade Roadway - I-64 WB Outside (Area B-3) - Phase 3		01-12-21																	
64W.B3.BASE.305	Install Sub-Base - I-64 WB Outside (Area B-3) - Phase 3		01-22-21																	
64W.B3.OGDL.305	Install Open Graded Drainage Layer - I-64 WB Outside (Area B-3) - Phase		02-02-21																	
64W.B3.ASBM.305	Install Base Mix Asphalt - I-64 WB Outside (Area B-3) - Phase 3		02-09-21																	
64W.B3.ASIM.305	Install Intermediate Mix Asphalt - I-64 WB Outside (Area B-3) - Phase 3		04-01-21													<u>.</u>]
64W.B3.ASGR.305	Install Asphalt at Guardrail - I-64 WB Outside (Area B-3) - Phase 3		04-08-21																	
64W.B3.GRAIL.305	Install Guardrail - I-64 WB Outside (Area B-3) - Phase 3	2	04-12-21	04-13-21																
64W.B1.ASSM.310	Install Surface Mix Asphalt - I-64 WB (Area B-1) - Phase 3	4	06-04-21	06-10-21																
64W.B1.PSTR.310	Install Final Striping - I-64 WB (Area B-1) - Phase 3	7	06-07-21	06-17-21																į
64W.B3.ASSM.310	Install Surface Mix Asphalt - I-64 WB (Area B-3) - Phase 3	3	06-07-21	06-10-21																
64W.B3.PSTR.310	Install Final Striping - I-64 WB (Area B-3) - Phase 3	5	06-08-21	06-15-21																
64E.B1.ASSM.310	Install Surface Mix Asphalt - I-64 EB (Area B-1) - Phase 3	4	06-10-21	06-15-21																
64.B1.GRAD.305	Remove Temp Crossover and Finish Grade Median - I-64 Median (Area	10	06-10-21	06-28-21														1		
Remaining Level of Effe	ort Critical Remaining Work	State F	Project No.	: 0064-965-	229, P-′	101. R	-201. (C-501. I	B-638	, B-63	9, B-6	640.								_
Actual Work	◆ ♦ Milestone			3-641, B-64							,	- ,								
Remaining Work	Summary			Federal P																
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KANSKA	Activity Name	Original Start	Finish		ovements - Seg	·	118		,	2019				2020			ate: September 14 2021
		Duration	TINST	Qtr 4		Qtr 2	Qtr 3 Qtr 4		Qtr 2	Qtr 3			Qtr 2	Qtr 3	Qtr 4		Qtr 2 Qtr
64E.B1.PSTR.310	Install Final Striping - I-64 EB (Area B-1) - Phase 3	7 06-11-21	06 22 21		D J F M A	MJ	JASONI	JJFI	ИАМ.	JJA	SOND	JFM		JJA	SOND	JF	MAMJJA Instal
64E.B3.ASSM.310		3 06-11-2															I Install
	Install Surface Mix Asphalt - I-64 EB (Area B-3) - Phase 3									-+						· .	
64.B3.GRAD.305	Remove Temp. Crossover and Finish Grade Median - I-64 Median (Area	10 06-11-21															📕 Rem
64E.B3.PSTR.310	Install Final Striping - I-64 EB (Area B-3) - Phase 3	5 06-14-2															Instal
Storm Drainage		150 08-25-20															06-08-2
64W.B1.SWMP.B1-2.305	Construct Pond B1-2 - I-64 WB Outside (Area B-1) 2341+25 - Phase 3	15 08-25-20												1 1 1		1 1 1	B1-2 - I-64 WB Out
64W.B1.STORM.305	Install Storm Drain Pipe & Structures - I-64 WB Outside (Area B-1) - Pha	4 08-31-20	09-08-20												Install Sto	rm Drair	Pipe & Structures
64W.B3.OFAL.305	Perform Outfall Restoration - I-64 WB Outside (Area B-3) - Phase 3	5 05-27-2	06-04-21														Perform
64W.B1.OFAL.305	Perform Outfall Restoration - I-64 WB Outside (Area B-1) - Phase 3	5 06-01-2	06-08-21														Perform
Bridges		284 08-14-20	05-24-21											-			05-24-2
I-64 WBL Over Queens	Creek (B-643) (Replacement)	284 08-14-20	05-24-21														▼ 05-24-2
Preparation		30 08-28-20	0 10-23-20											-	10-2	3-20, Pre	eparation
	Grade for Abutment - Abut A - B-643 - Stage 3	2 08-28-20	08-31-20												Grade for A	Abutmen	t - Abut A - B-643 -
	Grade for Abutment - Abut B - B-643 - Stage 3	2 10-20-20													1 1 1	1 1 1	utment - Abut B - B-
Demolition		41 08-14-20													10-19	1 1 1	
		34 08-14-20												1 1 1	10-08-	1 1 1	
Superstructure														1 1 1	1 1 1	1 1 1	
	Demo Parpet & Sawcut - Span a - B-643 - Stage 3	1 08-14-20				-											cut - Span a - B-64
	Remove Deck & Girders - Span a - B-643 - Stage 3	1 08-17-20														1 1 1	ders - Span a - B-6
A3.B643.SB.DDEK.305	Demo Parpet & Sawcut - Span b - B-643 - Stage 3	1 08-18-20												- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	- 1 - 1 ¹ -	1 1 1	cut - Span b - B-64
A3.B643.SB.DGRD.305	Remove Deck & Girders - Span b - B-643 - Stage 3		08-20-20														ders - Span þ - B-6
A3.B643.SC.DDEK.305	Demo Parpet & Sawcut - Span c - B-643 - Stage 3		08-21-20													1 1 1	cut - Span c - B-64
			08-24-20													بلاحيل والمسار	ders - Spanic - B-
A3.B643.SD.DDEK.305	Demo Parpet & Sawcut - Span d - B-643 - Stage 3		08-25-20														/cut - Span d - B-64
A3.B643.SD.DGRD.305		1 08-26-20	08-26-20											1 1 1	1.1.1	1 1 1	rders - Span d - B-
A3.B643.SE.DDEK.305	Demo Parpet & Sawcut - Span e - B-643 - Stage 3	1 08-27-20	08-27-20												Demo Parp	et & Sav	vcut - Span e - B-6
A3.B643.SE.DGRD.305	Remove Deck & Girders - Span e - B-643 - Stage 3	1 08-28-20	08-28-20												Remove De	eck & G	rders - Span e - B-
A3.B643.SF.DDEK.305	Demo Parpet & Sawcut - Span f - B-643 - Stage 3	1 08-31-20	08-31-20												Demo Par	oet & Sa	wcut - Span f - B-64
A3.B643.SF.DGRD.305	Remove Deck & Girders - Span f - B-643 - Stage 3	1 09-01-20	09-01-20												Remove D	eck & G	irders - Span f - B-
A3.B643.SG.DDEK.305	Demo Parpet & Sawcut - Span g - B-643 - Stage 3	1 09-03-20	09-03-20												Demo Par	pet & Sa	wcut - Span g - B-
A3.B643.SG.DGRD.305	Remove Deck & Girders - Span g - B-643 - Stage 3	1 09-04-20	09-04-20												Remove D	eck & C	irders - Span g - B
A3.B643.SH.DDEK.305	Demo Parpet & Sawcut - Span h - B-643 - Stage 3	1 09-08-20	09-08-20												Demo Par	pet & Sa	wcut - Span h - B-
A3.B643.SH.DGRD.305	Remove Deck & Girders - Span h - B-643 - Stage 3	1 09-09-20	09-09-20												Remove I	Deck &	Girders - Span h - E
A3.B643.SI.DDEK.305	Demo Parpet & Sawcut - Span i - B-643 - Stage 3	1 09-10-20	09-10-20												Demo Pai	rpet & Sa	wcut - Span i - B-6
A3.B643.SI.DGRD.305	Remove Deck & Girders - Span i - B-643 - Stage 3	1 09-11-20	09-11-20												Remove I	Deck &	Girders - Span i - B
A3.B643.SJ.DDEK.305	Demo Parpet & Sawcut - Span j - B-643 - Stage 3	1 09-14-20	09-14-20												I Demo Pa	irpet & \$	awcut - Span j - B-
A3.B643.SJ.DGRD.305	Remove Deck & Girders - Span j - B-643 - Stage 3	1 09-15-20	09-15-20												I Remove	Deck &	Girders - Span j - B
A3.B643.SK.DDEK.305	Demo Parpet & Sawcut - Span k - B-643 - Stage 3	1 09-17-20	09-17-20												I Demo Pa	arpet & S	awcut - Span k - B
A3.B643.SK.DGRD.305	Remove Deck & Girders - Span k - B-643 - Stage 3	1 09-18-20	09-18-20			b	<u></u>								I Remove	Deck &	Girders - Span k -
A3.B643.SL.DDEK.305	Demo Parpet & Sawcut - Span I - B-643 - Stage 3	1 09-21-20	09-21-20												i i i	i i i	Sawcut - Span I - B-
A3.B643.SL.DGRD.305	Remove Deck & Girders - Span I - B-643 - Stage 3		09-22-20														Girders - Span I - I
A3.B643.SM.DDEK.305	Demo Parpet & Sawcut - Span m - B-643 - Stage 3		09-23-20														Sawcut - Span m - I
A3.B643.SM.DGRD.305		1 09-24-20	09-24-20														Girders - Span m
A3.B643.SN.DDEK.305	Demo Parpet & Sawcut - Span n - B-643 - Stage 3		09-25-20	·		LL	· · · · · · · · · · · · · · · · · · ·					<u>-</u>					Sawcut - Spann - E
A3.B643.SN.DGRD.305			09-28-20														Girders - Span n
	Demo Parpet & Sawcut - Span o - B-643 - Stage 3		09-29-20														Sawcut - Span o -
									<u> </u>								
Remaining Level of Effort	Critical Remaining Work						638, B-639, B-640,									F	ULL SCHEDULE F
Actual Work	Milestone				3, D-609, D-610												Page 47
Remaining Work	V Summary				o.: NHPP-064-3 per: C00106689	• •											Print Date: 09-

KANSKA					ty improve	ements - Segme	ent III 2018		·	201	9			2020	Pro	posal Date: Septem 2021	,
iy ID	Activity Name	Original Duration	Start	Finish	Qtr 4		2 Qtr 3			Qtr 2	Qtr 3			2 Qt		Qtr 1 Qtr 2	Qtr 3
A3 B643 SO DGRD 3	05 Remove Deck & Girders - Span o - B-643 - Stage 3	1	10-01-20	10-01-20		JIFIMAM	JJA	SOND	JFM	AMJ	JAS	OND	JFMAM	JJJ		J F M A M J Deck & Girders - S	
A3.B643.SP.DDEK.30			10-01-20													arpet & Sawout - Sp	- 11 - 11 - 11 - 11 - 11 - 11 - 11 - 1
A3.B643.SP.DGRD.30			10-05-20													Deck & Girders - S	
A3.B643.SQ.DDEK.30			10-05-20													arpet & Sawcut - S	- 11 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
	05 Remove Deck & Girders - Span q - B-643 - Stage 3		10-08-20													Deck & Girders -	-i i i
Substructure	Remove Deck & Gilders - Span q - B-045 - Stage 5		08-18-20													20. Substructure	span q-
	05 Dame Abutment & Americanth Olab. Abut A. D. 040, Ohere 2																
	05 Demo Abutment & Approach Slab - Abut A - B-643 - Stage 3		08-18-20													ent & Approach Sla	لأحجا حاجا حالم
	05 Demo Pier Cap - Pier 01 - B-643 - Stage 3		08-21-20													ap - Pier 01 - B-643	
	05 Demo Pier Cap - Pier 02 - B-643 - Stage 3		08-25-20													ap - Pier 02 + B-643	
A3.B643.P03.DCAP.30				08-27-20												ap - Pier 03 - B-64	
A3.B643.P04.DCAP.30				08-31-20												Cap - Pier 04 - B-64	
A3.B643.P05.DCAP.30			09-03-20				· · · · · · · · · · · · · · · · · · ·									Cap - Pier 05 - B-64	
	05 Demo Pier Cap - Pier 06 - B-643 - Stage 3		09-08-20													Cap - Pier 06 - B-64	
	05 Demo Pier Cap - Pier 07 - B-643 - Stage 3		09-10-20													Cap - Pier 07 - B-6	1.1.1
A3.B643.P08.DCAP.30			09-14-20													Cap - Pier 08 - B-6	
A3.B643.P09.DCAP.30			09-17-20													Cap - Pier 09 - B-6	
	05 Demo Pier Cap - Pier 10 - B-643 - Stage 3		09-21-20													r Cap - Pier 10 - B-	والمرابر بالرابر
	05 Demo Pier Cap - Pier 11 - B-643 - Stage 3		09-23-20													r Cap - Pier 11 - B-	- i - i
A3.B643.P12.DCAP.30			09-25-20													r Cap - Pier 12 - B-	1 I I I I I I I I I I I I I I I I I I I
	05 Demo Pier Cap - Pier 13 - B-643 - Stage 3		09-29-20													er Cap - Pier 13 - B	i i
A3.B643.P14.DCAP.30	05 Demo Pier Cap - Pier 14 - B-643 - Stage 3	1	10-02-20	10-02-20												er Cap - Pier 14 - B	1.1.1
	05 Demo Pier Cap - Pier 15 - B-643 - Stage 3	1	10-06-20	10-06-20												ier Cap - Pier 15 - E	ii
	05 Demo Pier Cap - Pier 16 - B-643 - Stage 3	1	10-09-20	10-09-20											I Demo F	ier Cap - Pier 16 - I	B-643 -
A3.B643.ABB.DABT.3	05 Demo Abutment & Approach Slab - Abut B - B-643 - Stage 3			10-15-20												Abutment & Approa	ich Slab
Foundation		36	08-24-20	10-19-20											10-19	20, Foundation	
A3.B643.P01.DPLE.30	05 Remove Piles Below Mudline - Pier 01 - B-643 - Stage 3	1	08-24-20	08-24-20												s Below Mudline - P	
A3.B643.P02.DPLE.30	05 Remove Piles Below Mudline - Pier 02 - B-643 - Stage 3	1	08-26-20	08-26-20											I Remove Pile	s Below Mudline - F	Pier 02 -
A3.B643.ABA.DPLE.3	05 Remove Abutment Piles - Abut A - B-643 - Stage 3	2	08-26-20	08-27-20											Remove Abu	itment Piles - Abut A	A- B-64
A3.B643.P03.DPLE.30	05 Remove Piles Below Mudline - Pier 03 - B-643 - Stage 3	1	08-28-20	08-28-20											I Remove Pile	s Below Mudline - F	Pier 03
A3.B643.P04.DPLE.30	05 Remove Piles Below Mudline - Pier 04 - B-643 - Stage 3	1	09-01-20	09-01-20											Remove Pil	es Below Mudline -	Pier 04
A3.B643.P05.DPLE.30	05 Remove Piles Below Mudline - Pier 05 - B-643 - Stage 3	1	09-04-20	09-04-20											I Remove Pi	es Below Mudline -	Pier 05
A3.B643.P06.DPLE.30	05 Remove Piles Below Mudline - Pier 06 - B-643 - Stage 3	1	09-09-20	09-09-20											I Remove P	les Below Mudline -	- Pier 06
A3.B643.P07.DPLE.30	05 Remove Piles Below Mudline - Pier 07 - B-643 - Stage 3	1	09-11-20	09-11-20		·	·		;						I Remove P	les Below Mudline -	- Pier 0
A3.B643.P08.DPLE.30	05 Remove Piles Below Mudline - Pier 08 - B-643 - Stage 3	1	09-15-20	09-15-20											I Remove F	iles Below Mudline	- Pier 0
A3.B643.P09.DPLE.30	05 Remove Piles Below Mudline - Pier 09 - B-643 - Stage 3	1	09-18-20	09-18-20											I Remove I	iles Below Mudline	: - Pier 0
A3.B643.P10.DPLE.30	05 Remove Piles Below Mudline - Pier 10 - B-643 - Stage 3	1	09-22-20	09-22-20											I Remove	Piles Below Mudline	e - Pier 1
A3.B643.P11.DPLE.30	05 Remove Piles Below Mudline - Pier 11 - B-643 - Stage 3	1	09-24-20	09-24-20											l Remove	Piles Below Mudline	e - Pier
A3.B643.P12.DPLE.30	05 Remove Piles Below Mudline - Pier 12 - B-643 - Stage 3	1	09-28-20	09-28-20									++++		l Remove	Piles Below Mudline	ie - Pier
A3.B643.P13.DPLE.30	05 Remove Piles Below Mudline - Pier 13 - B-643 - Stage 3	1	10-01-20	10-01-20											I Remove	Piles Below Mudlin	ıę - Pier
	05 Remove Piles Below Mudline - Pier 14 - B-643 - Stage 3			10-05-20												Piles Below Mudlin	
	05 Remove Piles Below Mudline - Pier 15 - B-643 - Stage 3			10-08-20												Piles Below Mudlin	
	05 Remove Piles Below Mudline - Pier 16 - B-643 - Stage 3			10-12-20												e Piles Below Mudli	_i _i _i
	05 Remove Abutment Piles - Abut B - B-643 - Stage 3			10-19-20												e Abutment Piles -	
Foundation				12-08-20												2-08-20, Foundatio	i i .
A3.B643.ABA.PLE.305	Drive Prod. Piles (Remainder) - Abut A - B-643 - Stage 3			10-12-20												rod. Piles (Remaind	
Remaining Level of Ef	ffort Critical Remaining Work	State	Project No.	0064-965	29 P-101	, R-201, C-501,	B-638 B	639 B-640								FULL SCHED	
Actual Work		Giale				D-609, D-610, D		ооо, Б-04 0,									Page 48
			•	,		NHPP-064-3 (4											ate: 09-1
Remaining Work	Summary					: C00106689DB	,										

KANSKA	Activity Name	Original Start	Finish	city Improvements - Segment III			8		201	9		2020			Proposal [)21
		Duration	Finish	Qtr 4	Qtr 1	Qtr 2	Qtr 3 Qtr 4	Qtr 2 Qtr 3 Qtr 4			Qtr 1 Qtr 2 Qtr			3 Qtr 4 Qtr 1 Qtr 2			2 Qtr 3	
A3.B643.P01.PLE.305	Drive Prod. Piles (Remainder) - Pier 01 - B-643 - Stage 3	3 10 12 1	20 10-15-20		JFM	AMJ	JASOND	JFM	AMJ	JAS		DUJFM	IAMJ	JA				JJA ainder) - Pi
A3.B643.P02.PLE.305	Drive Prod. Piles (Remainder) - Pier 02 - B-643 - Stage 3		20 10-20-20	- i i											- i - i - i -	- i i i	- i * i - i	nainder) - P
A3.B643.P03.PLE.305	Drive Prod. Piles (Remainder) - Pier 03 - B-643 - Stage 3		20 10-26-20															nainder) - F
A3.B643.P04.PLE.305	Drive Prod. Files (Remainder) - Fier 03 - B-643 - Stage 3		20 10-20-20															mainder) - I
															- i i i	- i i i	1 1 1	i i i' i
A3.B643.P05.PLE.305	Drive Prod. Piles (Remainder) - Pier 05 - B-643 - Stage 3		20 11-03-20														1 1 1	mainder) -
A3.B643.P06.PLE.305	Drive Prod. Piles (Remainder) - Pier 06 - B-643 - Stage 3		0 11-09-20	- i i														emainder)
A3.B643.P07.PLE.305	Drive Prod. Piles (Remainder) - Pier 07 - B-643 - Stage 3		0 11-12-20															emainder)
A3.B643.P08.PLE.305	Drive Prod. Piles (Remainder) - Pier 08 - B-643 - Stage 3		0 11-17-20															Remainder)
A3.B643.P09.PLE.305	Drive Prod. Piles (Remainder) - Pier 09 - B-643 - Stage 3		0 11-23-20	-											- i - i - i -	- i i i	- i - i - i	Remainder
A3.B643.P10.PLE.305	Drive Prod. Piles (Remainder) - Pier 10 - B-643 - Stage 3		0 11-30-20															Remainde
A3.B643.P11.PLE.305	Drive Prod. Piles (Remainder) - Pier 11 - B-643 - Stage 3		20 12-04-20													- i - i - i	- i - i - i	(Remainde
A3.B643.ABB.PLE.305	Drive Prod. Piles (Remainder) - Abut B - B-643 - Stage 3		20 12-08-20											ļļļ.				(Remainde
Substructure		87 10-13-2	20 01-07-21													01-0	7-21, Sub	ostructure
A3.B643.ABA.ABUT.305	Construct Abutment (Remainder) - Abut A - B-643 - Stage 3	10 10-13-2	20 10-27-20												🗖 Co	nstruct At	utment (F	Remainder
A3.B643.P01.CAP.305	Construct Pier Cap (Remainder) - Pier 01 - B-643 - Stage 3	5 10-20-2	20 10-27-20												Co	nstruct Pi	er Cap (R	Remainder)
A3.B643.P02.CAP.305	Construct Pier Cap (Remainder) - Pier 02 - B-643 - Stage 3	5 10-27-2	20 11-02-20												C C	onstruct P	ier Cap (F	Remainder
A3.B643.ABA.BKF.305	Backfill Abutment & Remove SOE - Abut A - B-643 - Stage 3	5 10-29-2	20 11-05-20												🛛 🛱	ackfill Abu	ment & R	Remove SC
A3.B643.P03.CAP.305	Construct Pier Cap (Remainder) - Pier 03 - B-643 - Stage 3	5 11-02-2	0 11-09-20			/ /									l C	onstruct	Pier Cap ((Remainde
A3.B643.P04.CAP.305	Construct Pier Cap (Remainder) - Pier 04 - B-643 - Stage 3	5 11-09-2	0 11-13-20												0 0	Construct	Pier Cap	(Remainde
A3.B643.P05.CAP.305	Construct Pier Cap (Remainder) - Pier 05 - B-643 - Stage 3	5 11-13-2	0 11-20-20												0	Construct	Pier Cap	(Remaind
A3.B643.P06.CAP.305	Construct Pier Cap (Remainder) - Pier 06 - B-643 - Stage 3	5 11-20-2	0 11-30-20													Construc	t Pier Ca	ıp (Remain
A3.B643.P07.CAP.305	Construct Pier Cap (Remainder) - Pier 07 - B-643 - Stage 3	5 11-30-2	0 12-07-20															ap (Remair
A3.B643.P08.CAP.305	Construct Pier Cap (Remainder) - Pier 08 - B-643 - Stage 3	5 12-07-2	20 12-14-20												بالاستاد والاستاد والاست			ap (Remai
A3.B643.ABB.ABUT.305	Construct Abutment (Remainder) - Abut B - B-643 - Stage 3		20 12-28-20															ment (Ren
A3.B643.P09.CAP.305	Construct Pier Cap (Remainder) - Pier 09 - B-643 - Stage 3		20 12-21-20												1 1 1			Cap (Rema
A3.B643.P10.CAP.305	Construct Pier Cap (Remainder) - Pier 10 - B-643 - Stage 3		20 12-29-20													- i i i		Cap (Rem
A3.B643.P11.CAP.305	Construct Pier Cap (Remainder) - Pier 11 - B-643 - Stage 3		20 01-05-21															r Cap (Ren
A3.B643.ABB.BKF.305	Backfill Abutment & Remove SOE - Abut B - B-643 - Stage 3		20 01-07-21			 								4				ent & Rem
	Backin Abdittent & Remove OOE - Abdi B - B-043 - Olage 3	209 10-28-2															- i i i	05-24-21
Superstructure	Install Cana, Cirdara (Damaindar), Chan a, D. 642, Stars 2																	
A3.B643.SA.GRD.305	Install Conc. Girders (Remainder) - Span a - B-643 - Stage 3		20 10-29-20													1.1.1		(Remainde
A3.B643.SB.GRD.305	Install Conc. Girders (Remainder) - Span b - B-643 - Stage 3		0 11-05-20															(Remainde
A3.B643.SA.DEK.305	Install Bridge Deck (Remainder) - Span a - B-643 - Stage 3		0 11-21-20															(Remaind
A3.B643.SC.GRD.305	Install Conc. Girders (Remainder) - Span c - B-643 - Stage 3		0 11-11-20															s (Remainc
A3.B643.SB.DEK.305	Install Bridge Deck (Remainder) - Span b - B-643 - Stage 3		0 11-28-20															k (Remaind
A3.B643.SD.GRD.305	Install Conc. Girders (Remainder) - Span d - B-643 - Stage 3		11-17-20															s (Remain
A3.B643.SC.DEK.305	Install Bridge Deck (Remainder) - Span c - B-643 - Stage 3		12-08-20												i i i	i i i	- T i i	ck (Remain
A3.B643.SA.CUR.305	Cure Bridge Deck - Span a - B-643 - Stage 3		11-28-20	+ -					 						· - +	++-		- Span a -
A3.B643.SE.GRD.305	Install Conc. Girders (Remainder) - Span e - B-643 - Stage 3		11-24-20													1 I I I		rs (Remain
A3.B643.SB.CUR.305	Cure Bridge Deck - Span b - B-643 - Stage 3	7 11-29-2	0 12-05-20														-	k - Şpan b
A3.B643.ABA.APR.305	Install Backwall, Joints, and Approach Slab (Remainder) - Abut A - B-643	15 11-30-2	0 12-23-20													Install	Backwall,	, Joints, an
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Girders (Remainder) - Span I - B-443 - Stage 3 2 01-11-21 01-12-21 11-16-21 strapet - Span a - B-643 - Stage 3 2 01-14-21 10-16-21 11-16-21 11-16-21 tidge Deck (Remainder) - Span 1 - B-643 - Stage 3 10 01-25-21 02-18-21 11-10-24 11-16-21 11-11-21 11-11-21 11-11-21 11-11-21 11-11-21 11-11-21 11-11-21 11-11-21 11-11-21 11-11-21 11-11-21 11-11-21 11-11-21 11-11-21 11-11-21 11-11-21 11-11-21 11-11-21 11-11-21 11-11-21 11-11-21 11-11-21 11-11-22 11-11-21 11-11-22 11-11-21 11-11-22 11-11-22 11-11-22 11-11-22 11-11-22 11-11-22 11-11-22 11-11-22 11-11-22 11-11-22 11-11-22 11-11-22 11-11-22 11-11-22 11-11-22 11-11-22 11-11-22 11-11-22 11-11-22 11-11-22 11-11-22 11-11-22 11-11-22 11-11-22 11-11-22 11-11-22 11-11-22 11-11-22 11-11-22 11-11-22 11-11-22 11-11-22 11-11-22 11-11-22 11-11-22 11-11-22 | one: Grees (Remainder) - Sgan 1 - B-643 - Stage 3 2 01.14.21 01.12.21 01.12.21 01.14.21 01.12.21 01.14.21 01.12.21 01.14.21 01.12.21 01.14.21 01.12.21 01.14.21 01.12.21 01.14.21 01.12.21 01.12.21 01.12.21 01.12.21 01.12.21 01.12.21 01.12.21 01.12.21 01.12.21 01.12.21 01.12.21 01.12.21 01.12.21 01.12.21 01.12.21 01.12.21 01.12.21 01.12.21 01.12.21 01.12.21 01.12.21 01.12.21 01.12.21 01.12.21 01.12.21 01.12.21 01.12.21 01.12.21 01.12.21 01.12.21 01.12.21 01.12.21 01.12.21 01.12.21 01.12.21 01.12.21 01.12.21 01.12.21 01.12.21 01.12.21 01.12.21 01.12.21 01.12.21 01.12.21 01.12.21 01.12.21 01.12.21 01.12.21 01.12.21 01.12.21 01.12.21 01.12.21 01.12.21 01.12.21 01.12.21 01.12.21 01.12.21 01.12.21 01.12.21 01.12.21 01.12.21 01.12.21 01.12.21 01.12.21 01.12.21 01.12.21 01.12.21 |

I-64 Capacity Improvements -Segment III

Submitted by: Skanska USA Civil Southeast Inc.





September 14, 2017

