

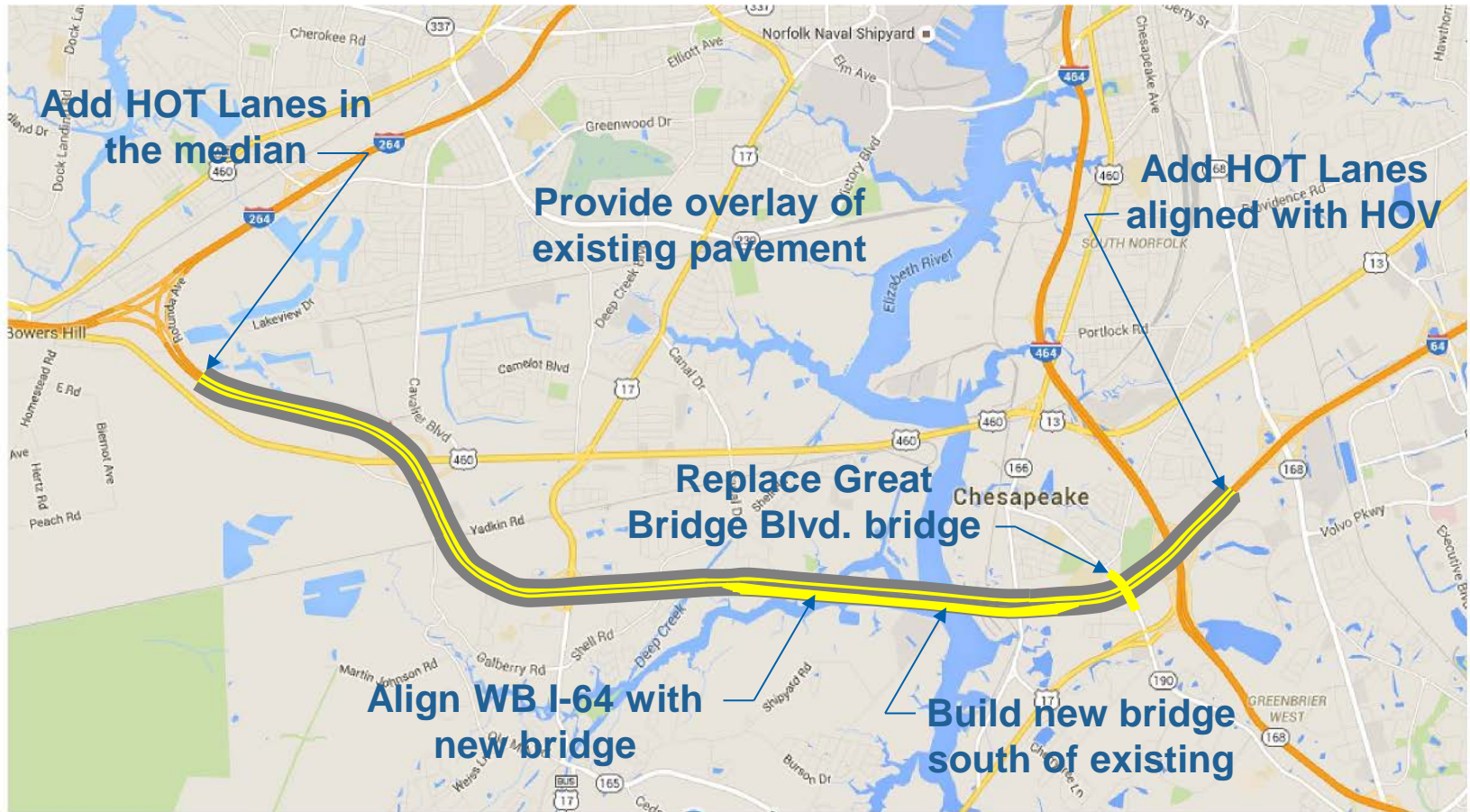


I-64 Southside & High Rise Bridge Phased Construction Feasibility Study

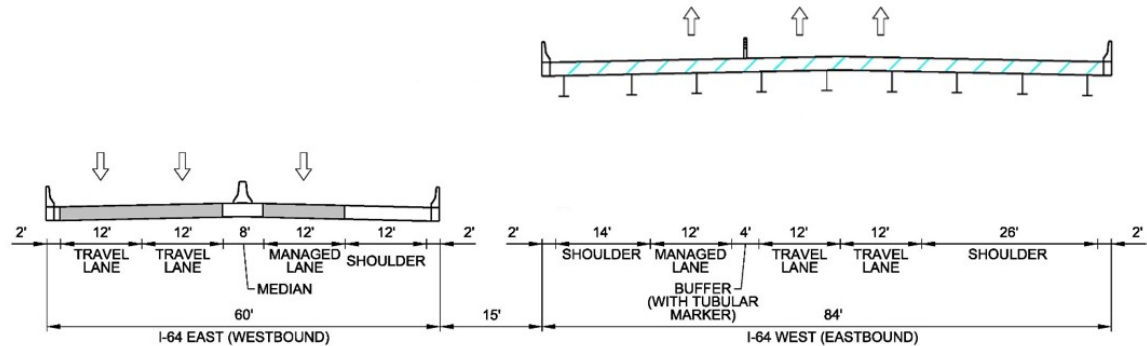
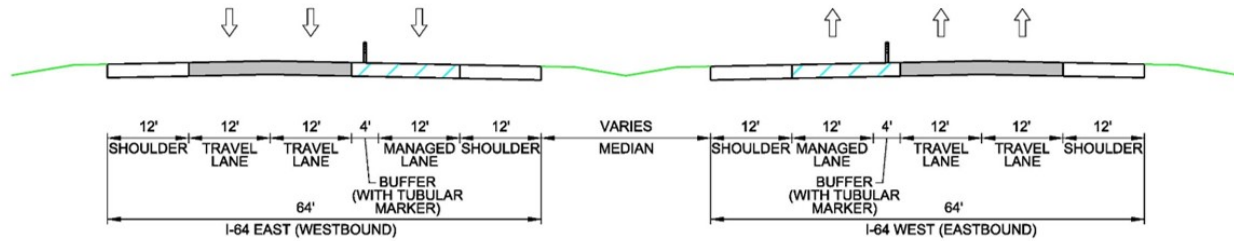
**James Utterback
Hampton Roads District Administrator**

**Presented to HRTPO
February 18, 2016**

I-64 Southside & High Rise Bridge Phase 1 Concept



I-64 Southside & High Rise Bridge Phase 1 Concept



3 LANES ON EXISTING BRIDGE, 3 ON NEW BRIDGE

LEGEND

- EXISTING LANES
- PROPOSED LANES

I-64 Southside & High Rise Bridge Project Status

Environmental and Preliminary Engineering

- Preliminary bridge height expected from USCG
- CLRP funding needed for FONSI decision
- Corridor survey completed
- Geotechnical investigations ongoing
- Prepared schematic engineering of Phase 1
- Completed Phase 1 cost estimate

I-64 Southside & High Rise Bridge Phase 1 Cost Estimate

VDOT Project Cost Estimating System (PCES) as basis

- PCES provides uniformity with projects statewide
- Additional engineering completed to determine unique costs not captured in PCES
- Evaluated potential risks and opportunities to identify likely upper and lower bounds of cost
- Cost year is 2018

I-64 Southside & High Rise Bridge Phase 1 Risks & Opportunities

Key risks for potential increased costs

- Bridge height
- Poor soil conditions
- Unforeseen major utility impact

Opportunities for potential reduced costs

- Competitive pricing
- Contractor innovation
- Lower fuel and petroleum costs

I-64 Southside & High Rise Bridge Phase 1 PCES Cost Results

Project Cost Estimate SUMMARY PAGE	
DISTRICT	HAM
PROJECT NUMBER	00
CONSTRUCTION END YEAR	FY2022
AD YEAR	FY2018
ESTIMATE YEAR	FY2016
Date of previous estimate	N/A
PROJECT MANAGER / DESIGNER	
Preliminary Engineering Estimate:	PCES
Construction Estimate:	PCES
Right-of-Way Estimate:	PCES
Utilities Estimate:	PCES
DATE	2/17/2016
THE FOLLOWING DATA WILL BE PROVIDED UPON COMPLETION OF THE REMAINDER OF THE WORKBOOK, WHICH IS ACCESSED BY SELECTING THE CONST, RW, & UTIL TABS BELOW	
CONSTRUCTION ESTIMATE	\$480,669,194
PRELIMINARY ENGINEERING ESTIMATE	\$32,866,774
RIGHT-OF-WAY & UTILITIES ESTIMATE	\$37,760,098
TOTAL PROJECT ESTIMATE	\$551,296,066

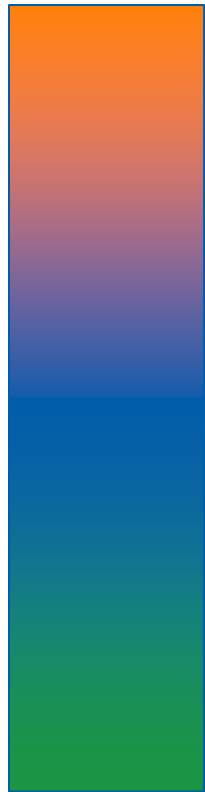
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I-64 Southside & High Rise Bridge Phase 1 Cost Estimate

Key Cost Elements

Cost Element	Estimate
Roadway Construction	\$202,213,000
Pavement Overlay	\$11,577,000
Major Signs	\$5,566,000
ITS	\$9,558,000
Sound Wall	\$33,176,000
High Rise Bridge Construction	\$199,517,000
Other Bridge Construction	\$17,492,000
Retaining Walls	\$1,572,000
Roadway Preliminary Engineering	\$23,342,000
Bridge Preliminary Engineering	\$9,525,000
Right of Way	\$21,249,000
Utilities	\$16,512,000

I-64 Southside & High Rise Bridge Phase 1 Cost Range



High Cost

\$583M

Impacts from high risks and some opportunities

Likely Cost

\$551M

Broad contingency but no opportunities

Low Cost

\$505M

Normal contingency and some opportunities

I-64 Southside & High Rise Bridge Phase 1 Tentative Schedule

Timeline

- **March 2016 – USCG Bridge Height Determination**
- **March 2016 – Final Phase 1 Feasibility Report**
- **March 2016 – Complete Pavement Condition Survey**
- **April 2016 – Complete Preliminary Geotechnical Report**
- **April 2016 – Proceed with Revised EA & Start D/B Procurement**
- **October 2016 – RFQ Release**
- **December 2016 – RFP Release**
- **May 2017 - D/B Contract Award**
- **December 2020 – Construction Complete**