

PARALLEL THIMBLE SHOAL TUNNEL





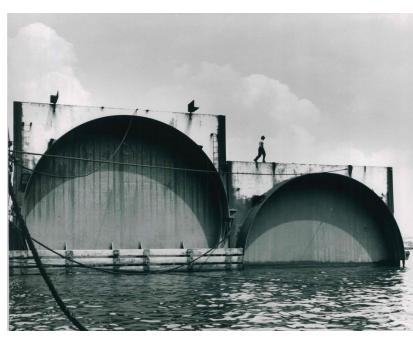
Tunnel Geometry Criteria

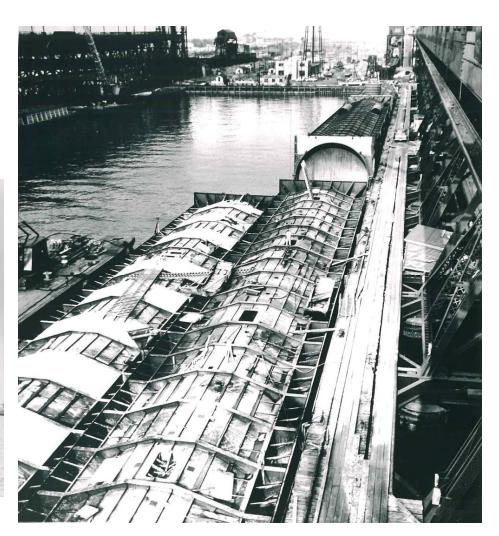
- Provide profile for a 1000-ft wide, 70-ft deep channel (67-ft channel with 3-ft over-dredge allowance) over top of tunnel
- Provide 6-ft of fill & 4-ft of scour protection over top of tunnel
- Tunnel cross section to have two 12-ft lanes with 2-ft shoulders
- Profile to meet all applicable AASHTO and VDOT codes and standards
- Verify alignment proposed during layout of Parallel Crossing (250-ft west of existing) does not impact existing tunnel during construction



Trench-type tunnels:

- Thimble Shoal Channel Tunnel: 5,734 ft.
- Chesapeake Channel Tunnel: 5,423 ft.
- Tunnel Clearance 13' 6"; 24' horizontal



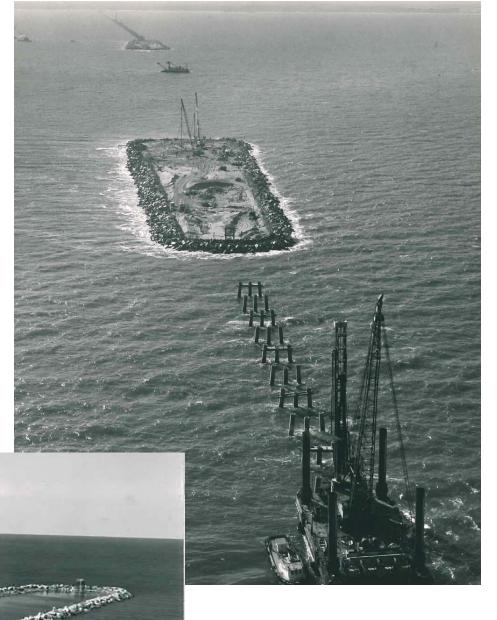




• Each island approx. 5 acres in surface

• 30 feet above sea level

1.2 million tons of rock armor around islands





Chesapeake Bay Bridge-Tunnel Commission Resolution Summary

Low

Interest Rate

Environment

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Favorable

Construction

Market

Design-Build

Delivery

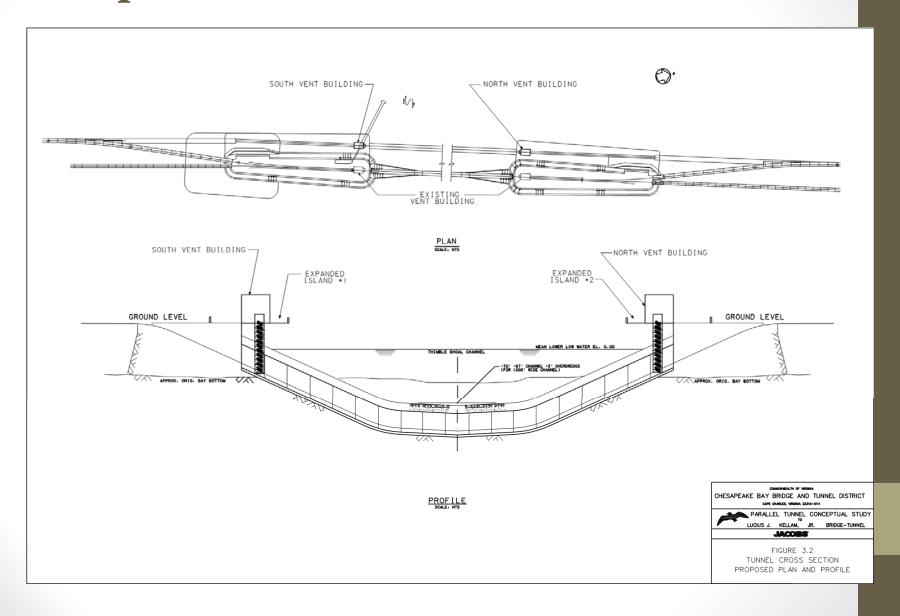
Model

Approximately \$200 million

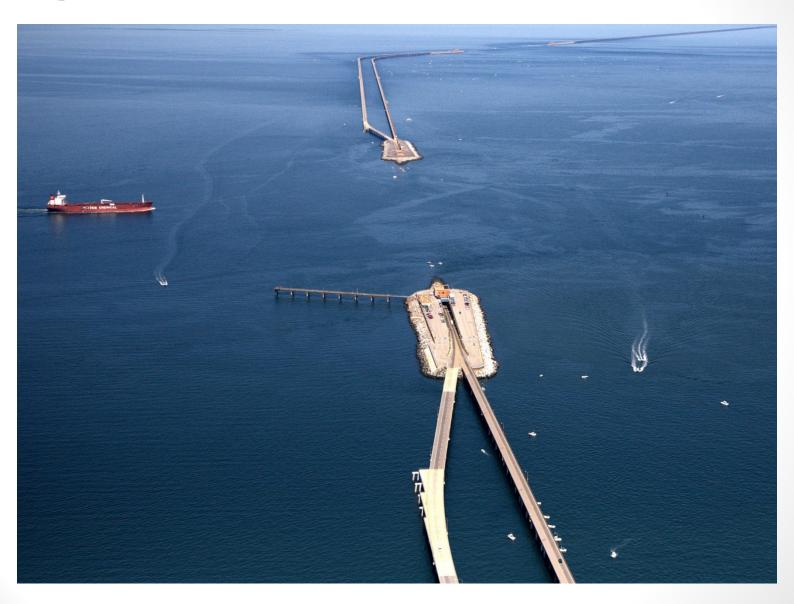
in project cost savings

as compared to 2012 Commission-approved Capital Plan

Proposed Plan and Profile



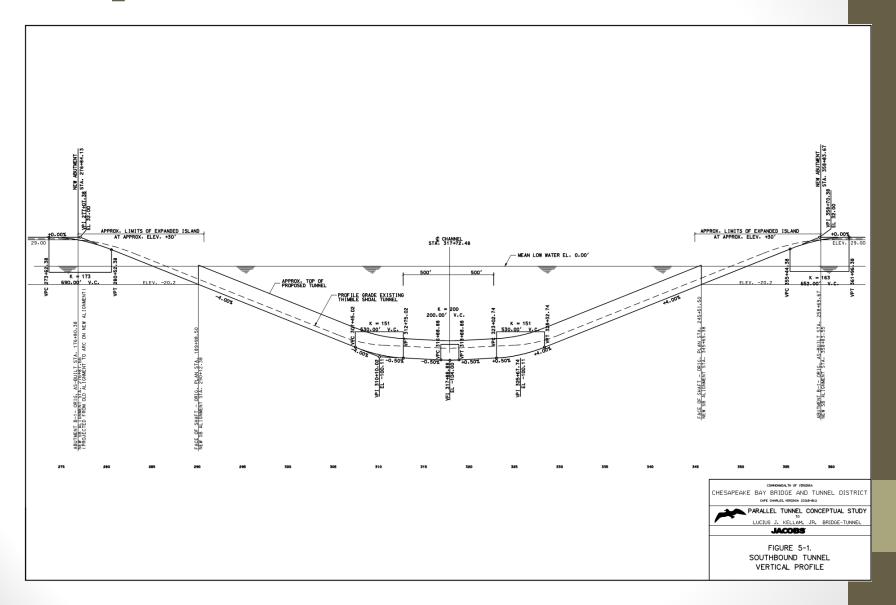
Alignment for Parallel Tunnel



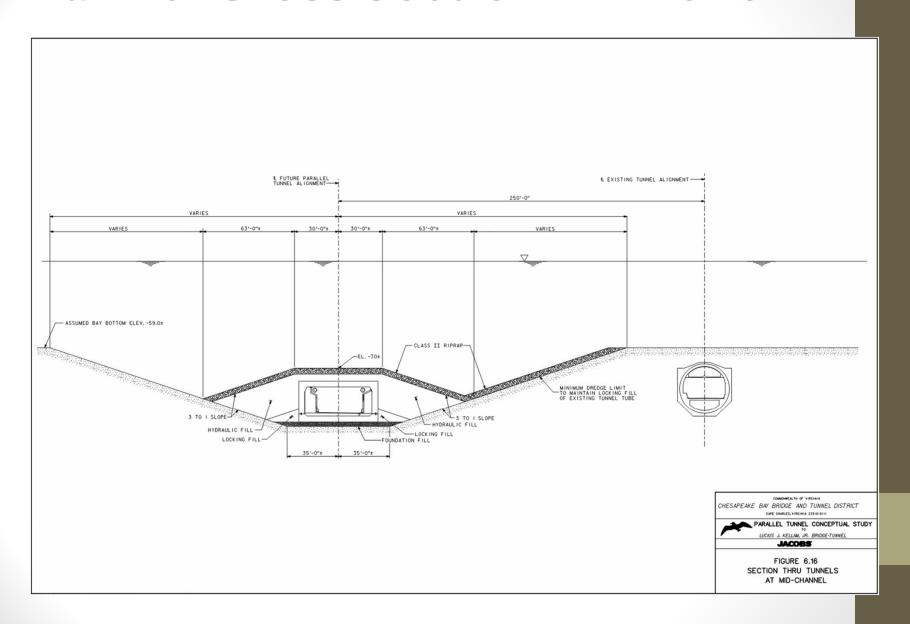
General Features



Proposed Profile Grade



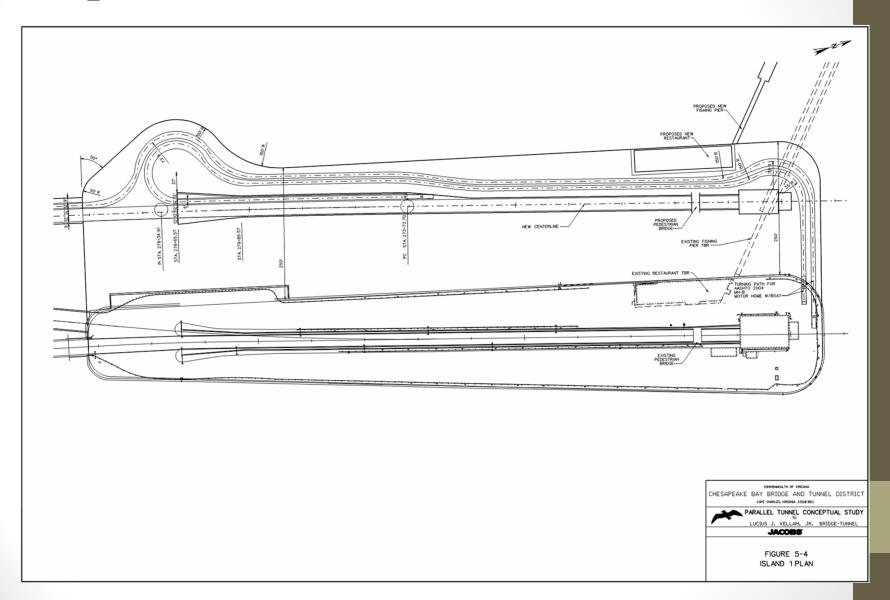
Tunnel Cross Section in Trench



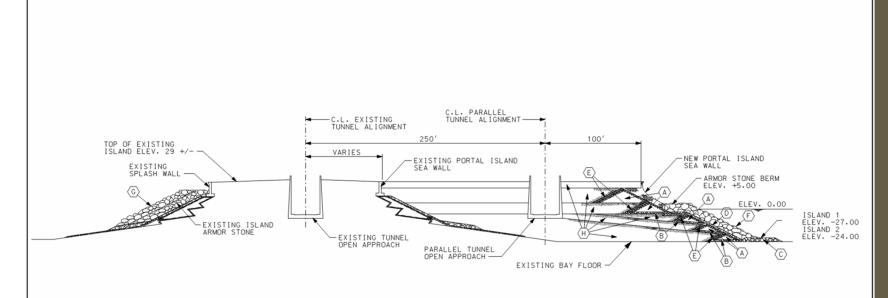
Portal Island Expansion

- Existing portal islands expanded to the west for acceptance of trestle structures and open approaches along proposed tunnel alignment
- To minimize environmental impacts, limit island expansion length to match existing
- Perimeter of expanded island to utilize cross section developed during Parallel Crossing Project
- Existing armor stone along west side of existing islands to be relocated to fortify east side of islands
- Material excavated for tunnel trench generally not suitable for island fill

Expansion of Portal Island No. 1



Proposed Island Widening / Protection



MATERIAL LEGEND

- (A) VDOT CLASS IA DRY RIP RAP 25 75 POUND STONE
- B) VDOT CLASS I DRY RIP RAP 50 150 POUND STONE
- C CLASS II 150 500 POUND STONE
- (D) CLASS III 500 1500 POUND STONE
- ⟨E⟩ VDOT SIZE NO. 1 AGGREGATE 4" 3/4" GRAVEL
- (F) 8' ARMOR COURSE
- (G) EXISTING STONE ARMOR COURSE RELOCATED FROM BAY SIDE OF ISLAND
- (H) HYDRAULIC FILL



TYPICAL SECTION
FOR ISLAND EXPANSION

Project Schedule

- Oct. 2013 Start Survey and Geotechnical
- Mar. 2014 Start NEPA
- Mar. 2014 Start TIFIA Process
- Sep. 2014 Start Design Build Bridging Documents
- Oct. 2014 Start Dredge Sampling Process
- May 2015 Issue RFQ for Design Build Contractor
- July 2015 Qualifications Submittals Due
- Feb. 2016 Issue final RFP for Design Build Contractor
- May 2016 Notice of intent to Award



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- Activate Mobile Alerts to receive text messages for every tweet

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chesapeake bay bridge-tunnel



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The Chesapeake Bay is home to many different species of birds, waterfowl and other sea creatures. Be sure to keep your eyes peeled as you travel across the facility...you just might see some of our friends. Click Here to view sightings!

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