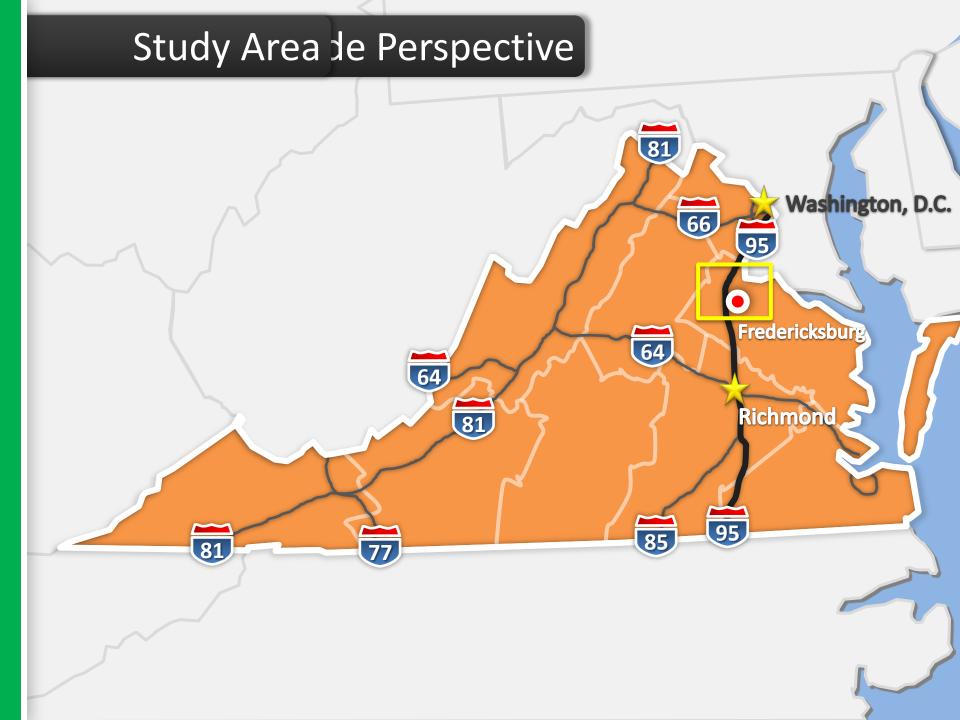


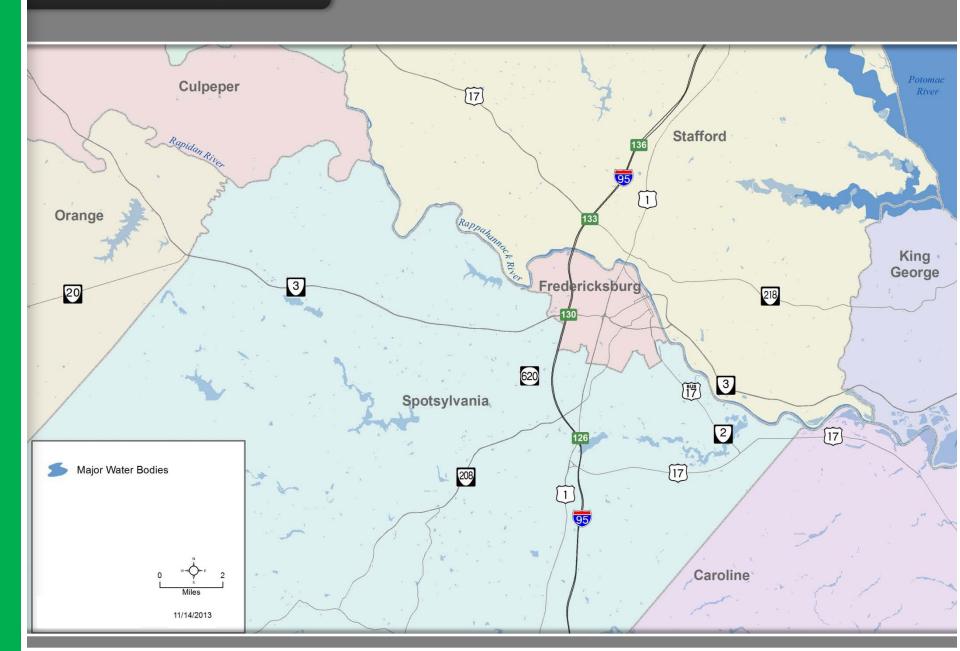
Fredericksburg Area Congestion Relief Study: Evaluation of Conceptual Alternatives

December 4, 2013

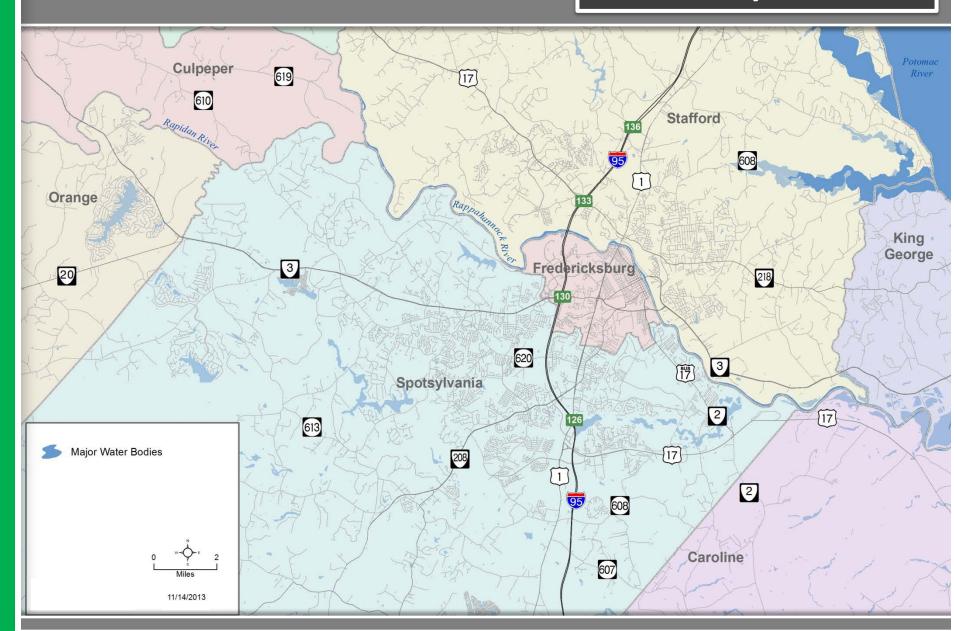
Quintin D. Elliott

Fredericksburg District Administrator

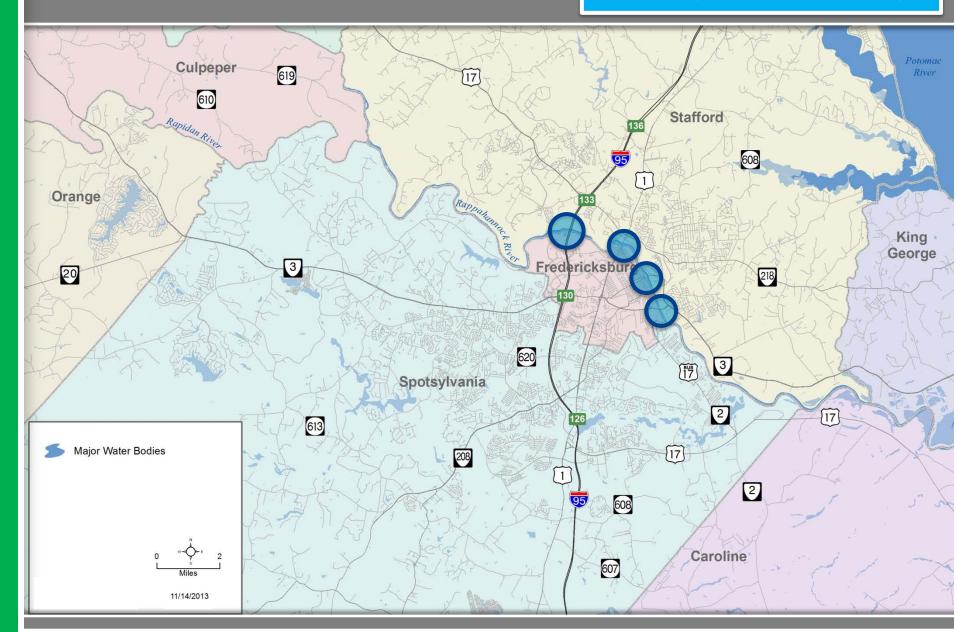




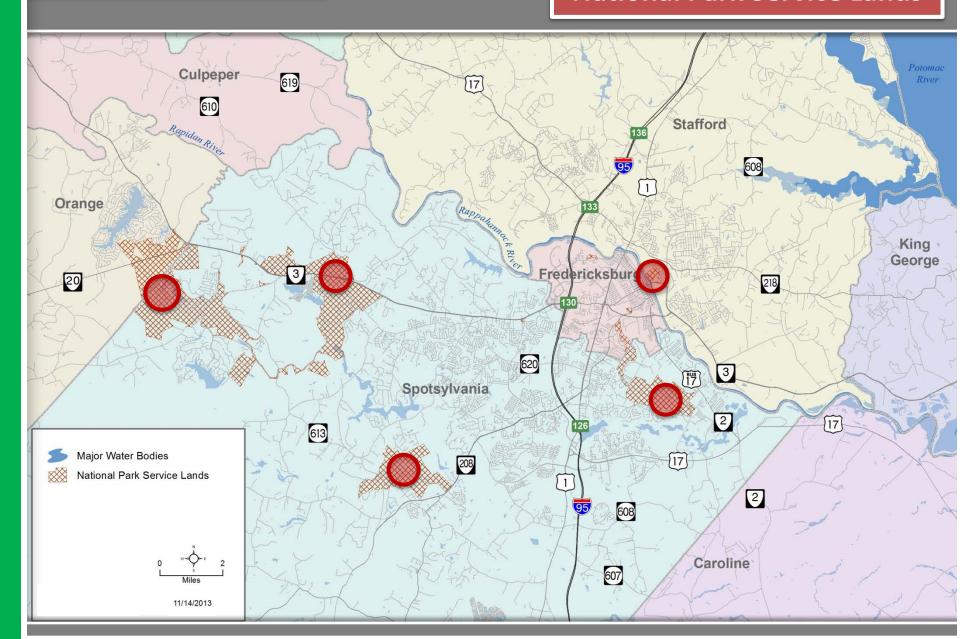
Secondary Network



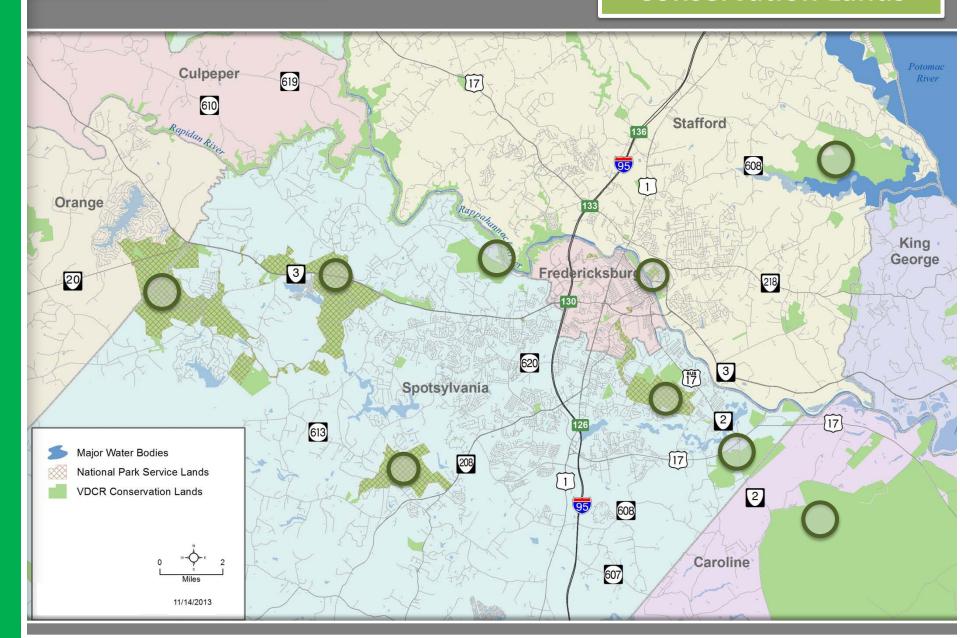
Existing River Crossings



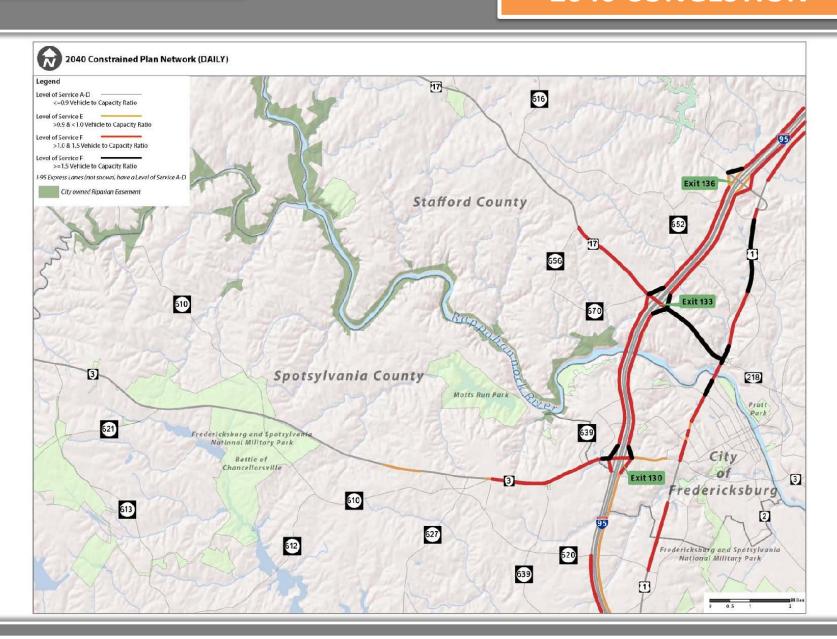
National Park Service Lands



Conservation Lands



2040 CONGESTION



A TIMELINE OF EVENTS

1970s - First concept of an eastern bypass. Later realized development concentrating to west.

- CTB selects Corridor 1 as preferred alt for NW OC (Res: 02.17.98)
- FHWA asks VDOT to conduct supplemental studies for EIS through 2001

FAMPO Interim 2015 CLRP included Outer **Connector Study NW Quadrant** (OC)

- VDOT begins EIS for Spotsylvania Pkwy (SW Quadrant of OC)
 - **VDOT** begins MIS for NE
- Quadrant of OC

- CTB revises preferred alt of NW OC to Corridor 1B (Res: 10.17.01) Spotsylvania
- County pulls support for NW OC
 - VDOT/FHWA cancel NW OC due
- to lack of local support

- I-95 Rappahannock Crossing Interchange Modification Request underway
- FAMPO localities recommend Conceptual Alternatives for today's consideration

Welcome Center **VA General Assembly creates** ramps proposal George Washington Toll Road rejected by VDOT & Authority (GWTRA) FHWA based on

- Spotsylvania County pulls support for Spotsylvania Pkwy (SW OC) VDOT/FHWA
- cancel SW OC due to lack of local support

Local Support for GWTR rescinded: thus VDOT puts project on hold.

GWTR IJR approved by **VDOT** and **FHWA**

2010

2011

2013 2012

EIS for NW OC begins. 129 Alternatives considered

2001

2004 2003

I-95 Access to

policy.

CelebrateVA! via

1997 1996

1998

1994

Conceptual Purpose and Need

Purpose

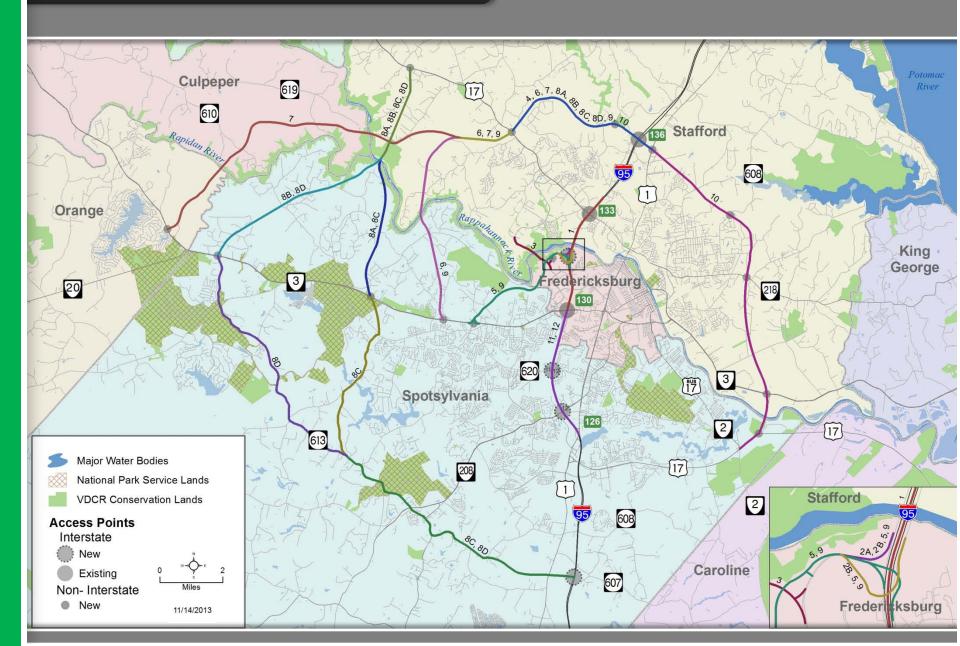
- Evaluate Alts that reduce congestion in Fredericksburg Study Area
- Identify Alts that improve traffic operations and accommodate commerce along I-95, US 17, & Route 3 in study area

Need

- Existing and future congestion, failing LOS, accidents, gridlock
- I-95 & US 17 are Corridors of Statewide Significance

Not Necessarily a Bypass

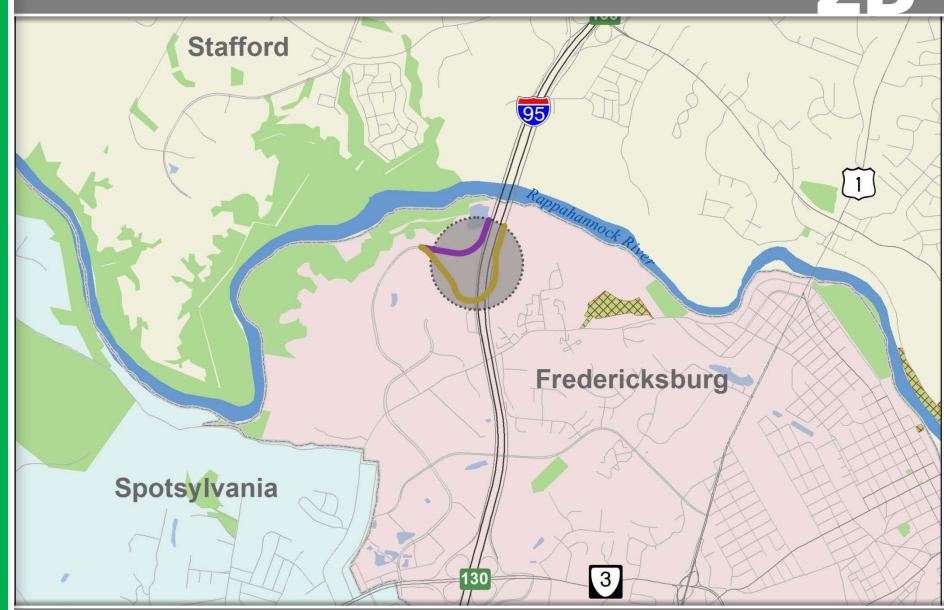
All Conceptual Alternatives



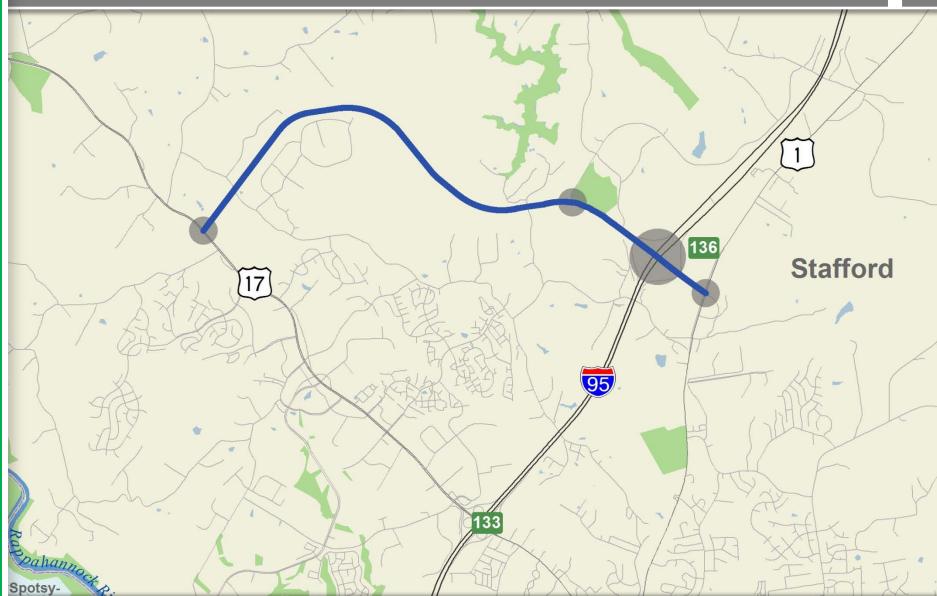
Conceptual Alternatives **Stafford** Fredericksburg Spotsylvania 3

Conceptual Alternatives

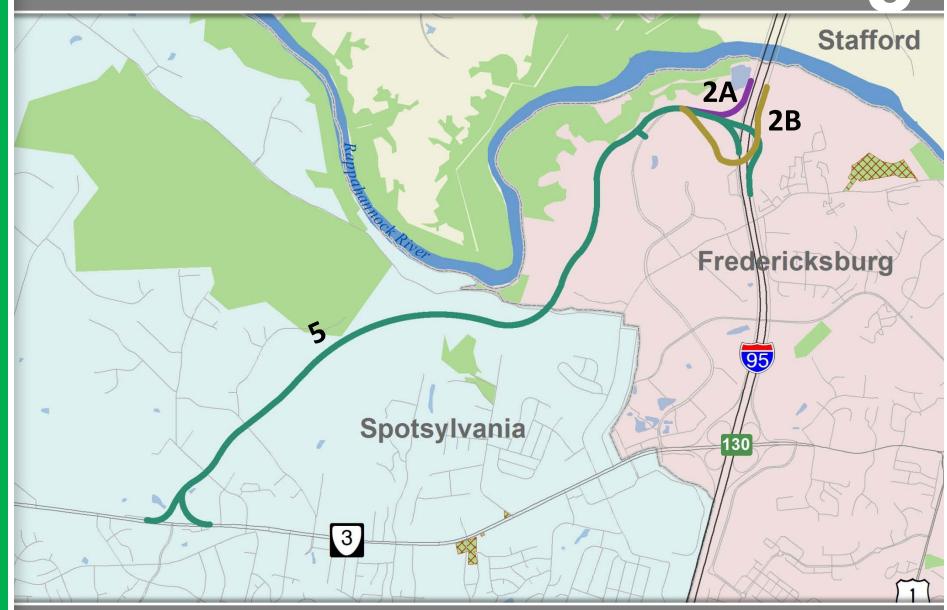
2B

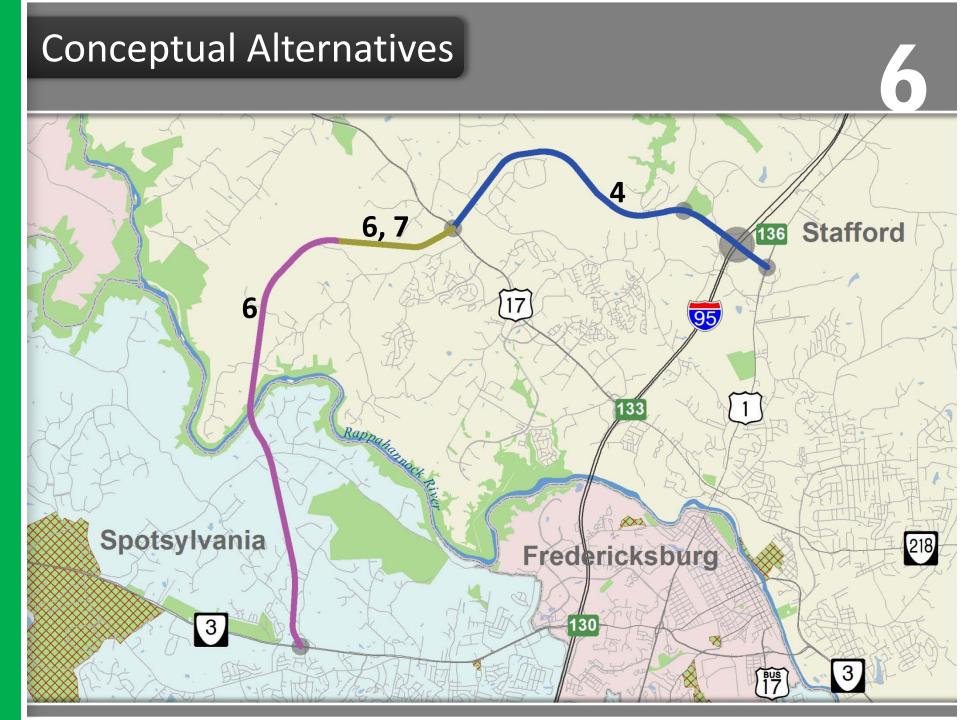


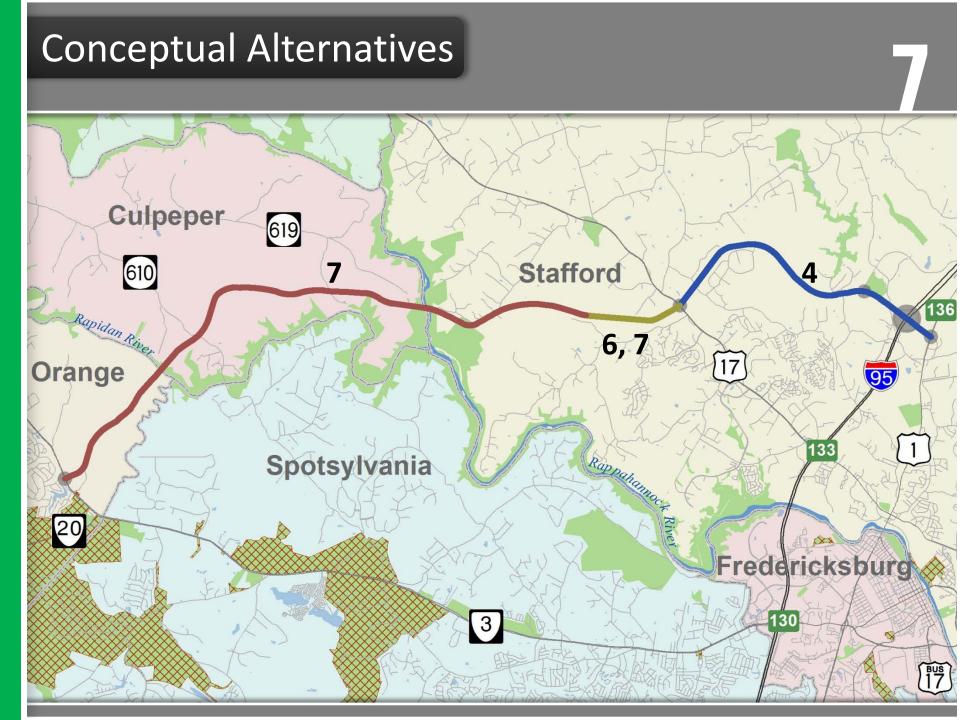


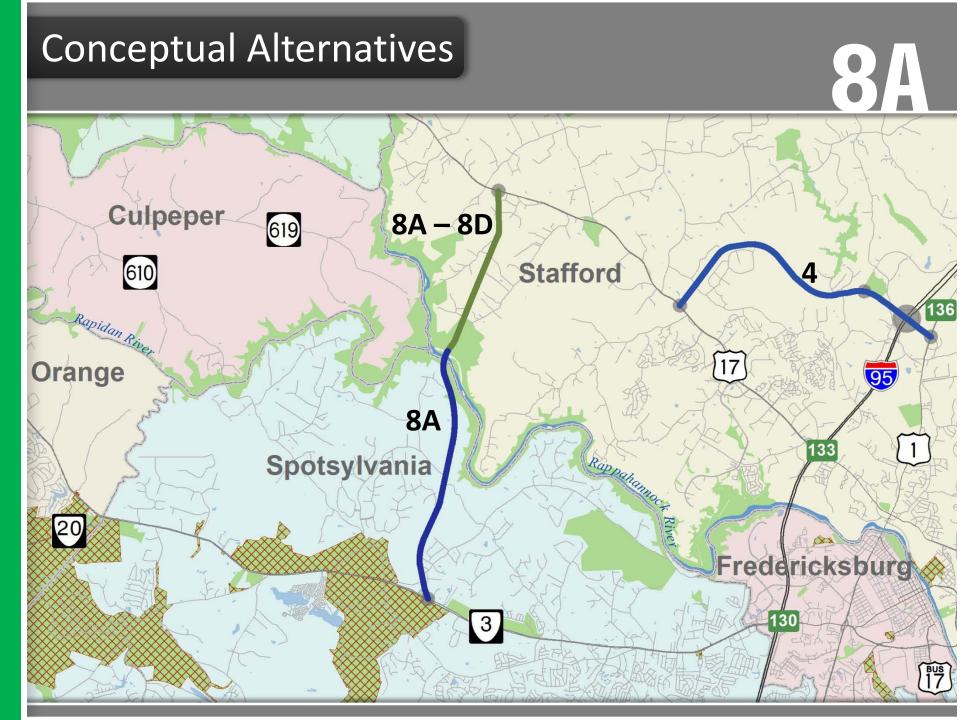






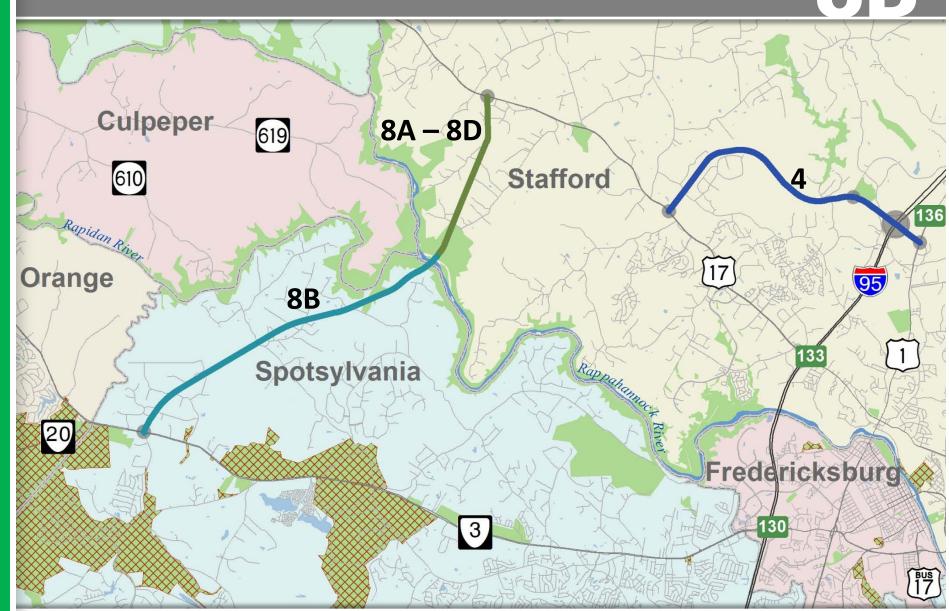


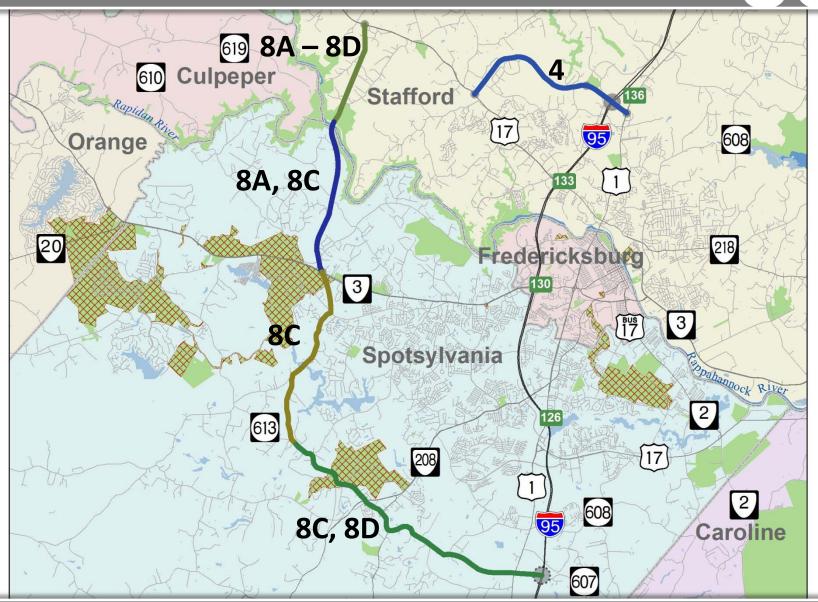


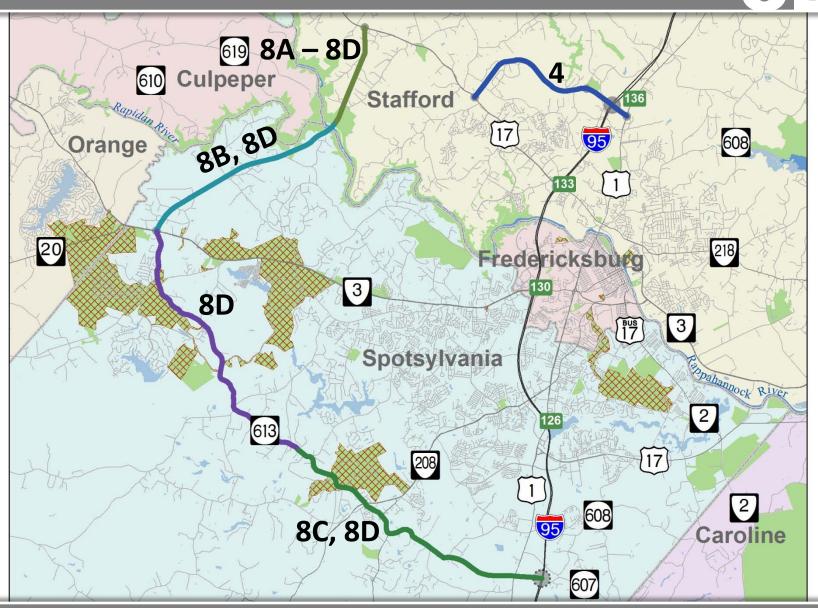


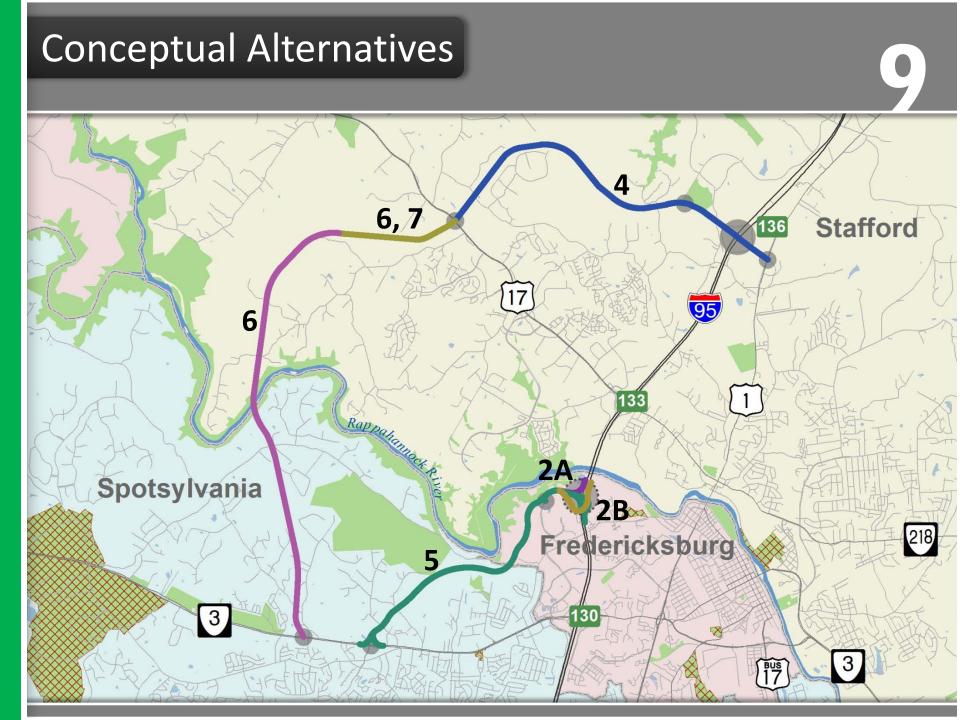
Conceptual Alternatives

8B



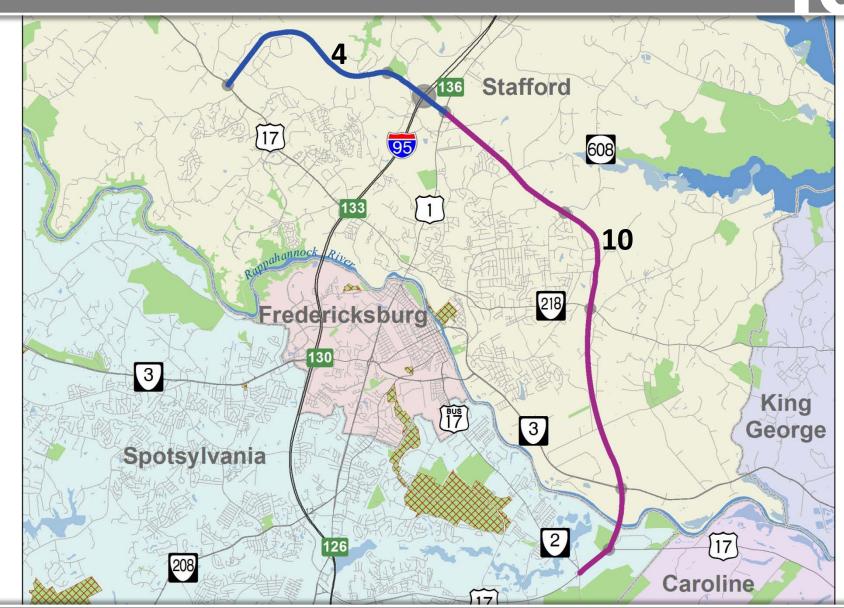


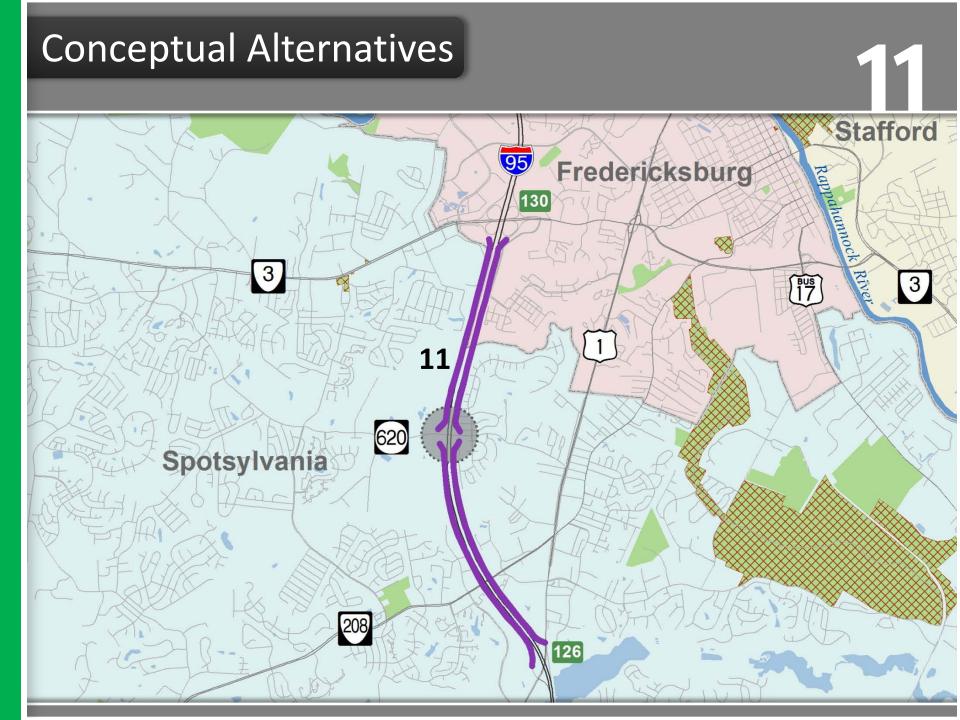


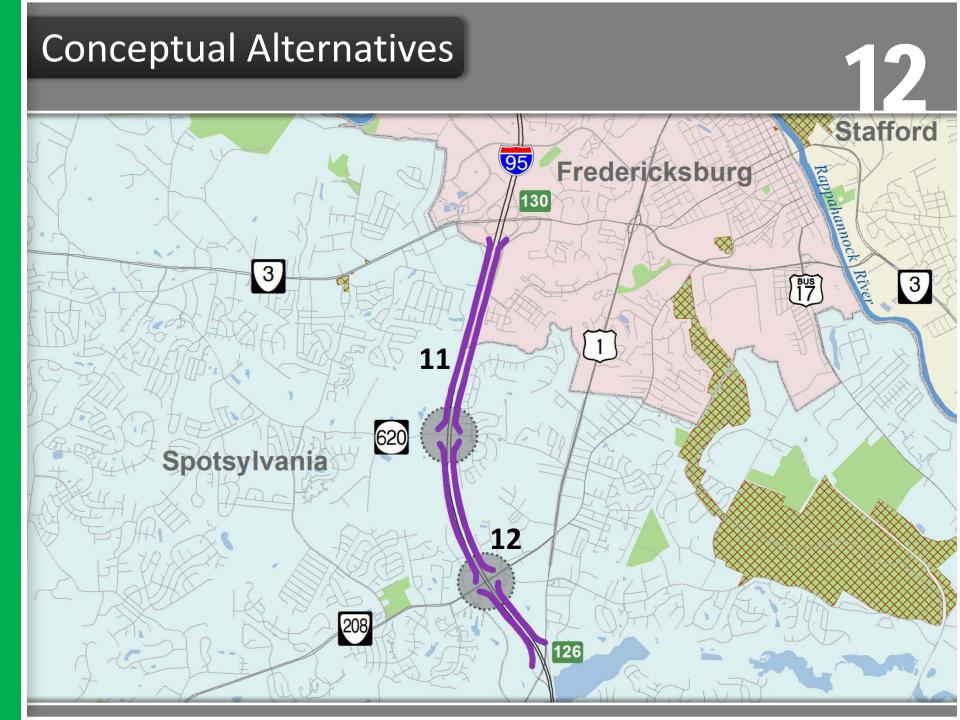


Conceptual Alternatives

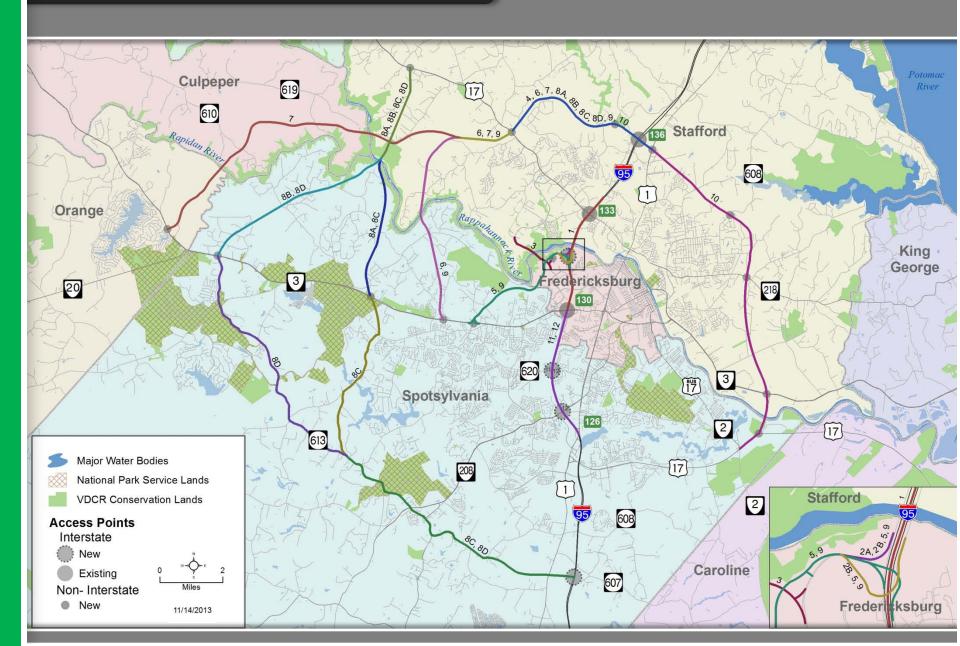
10







All Conceptual Alternatives



1st Screening

Fredericksburg Area Congestion Relief Study: 1st Screening of Conceptual Alternatives

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				Traffic	Impacts		Policy Con	siderations	Environmental Impacts						
Conceptual Alt. # ¹	Length in Miles ²	2019 Planning Level Cost \$Millions ³	Average Daily Traffic (ADT) Served by Alt ⁴	Ratio of ADT to Cost ⁵	Travel Time Savings ⁶	Benefit to Regional Vehicle Hours of Delay (VHD) ⁷	Consistency with Local & Regional Plans ⁸	Federal Approval of Interstate Access (FHWA) ⁹	NPS Park Land ¹⁰	Civil War Battlefields ¹¹	Conservation Easements ¹²	Scenic & Recreational Rappahannock & Rapidan Rivers ¹³	Relocations - Residential & Business ¹⁴		
Alt 2A	0.5	\$18	•		•	•		0	•	•	•	•	0		
Alt 2B	1.5	\$37			•	•			•	•	•	•	•		
Alt 3	1.6	\$104			•	•	•	•	•	•					
Alt 4	5.1	\$235							•	•		•			
Alt 5	5.8	\$284							•	•		•	_		
Alt 6	13.5	\$562							•	•		_	_		
Alt 7	18.1	\$630							•		-	_			
Alt 8A	12.8	\$565											_		
Alt 8B	14.4	\$684		•					•			_	_		
Alt 8C	27.5	\$1,135		•											
Alt 8D	32.1	\$1,475		•											
Alt 9	19.3	\$846							•	•					
Alt 10	16.6	\$865							•	•					
Alt 11	4.3	\$341				•			•	•	•	•			
Alt 12	4.3	\$515				•			•	•	•	•			

Legend

ı		Negative Impacts		Positive Impacts
	•	Neutral / Minimal / No Negative Impact or Resistance	•	Neutral / Minimal / No Positive Impact
ĺ		Low Negative Impact or Resistance		Low Positive Impact
		Medium Negative Impact or Resistance		Medium Positive Impact
		High Negative Impact or Resistance		High Positive Impact

1st Screening Results

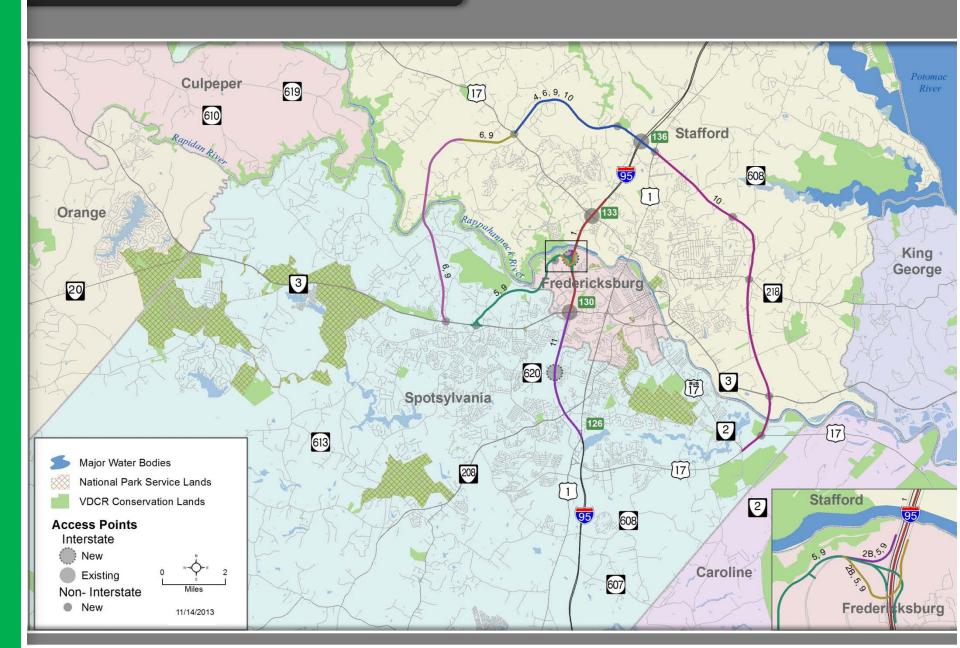
Fredericksburg Area Congestion Relief Study: 1st Screening Results

			edericks	bulg Al	ca Cong	estion K	eller Study: 1st Screening Results							
	Traffic Impacts Policy Considerations		siderations	Environmental Impacts										
Conceptual Alt. # ¹	Length in Miles ²	2019 Planning Level Cost \$Millions ³	Average Daily Traffic (ADT) Served by Alt ⁴	Ratio of ADT to Cost ⁵	Travel Time Savings ⁶	Benefit to Regional Vehicle Hours of Delay (VHD) ⁷	Consistency with Local & Regional Plans ⁸	Federal Approval of Interstate Access (FHWA) ⁹	NPS Park Land ¹⁰	Civil War Battlefields ¹¹	Conservation Easements ¹²	Scenic & Recreational Rappahannock & Rapidan Rivers ¹³	Relocations - Residential & Business ¹⁴	
			_											
Alt 2B	1.5	\$37			•	•			•	•		0	0	
Alt 4	5.1	\$235							•	•		•		
Alt 5	5.8	\$284					0		•				0	
Alt 6	13.5	\$562							•	•	0			
Alt 9	19.3	\$846							•	•				
Alt 10	16.6	\$865							•	•				
Alt 11	4.3	\$341				•			•	•	•	•		

Legend

Negative Impacts		Positive Impacts
Neutral / Minimal / No Negative Impact or Resistance	•	Neutral / Minimal / No Positive Impact
Low Negative Impact or Resistance		Low Positive Impact
Medium Negative Impact or Resistance		Medium Positive Impact
High Negative Impact or Resistance		High Positive Impact

1st Screening Results



2nd Screening

Fredericksburg Area Congestion Relief Study: 2nd Screening of Conceptual Alternatives

		ls.													- p		Hatives			
		Traffic Impacts							Policy Considerations Environmental Impacts											
Alt. #1	Length in Miles ²	2019 Planning Leve Cost \$Millions ³	Average Daily Traffic	(ADT) Served by Alt ⁴	Ratio of ADT to Cost ⁵	Benefit to Regional Vehicle Hours of Delay (VHD) ⁶	Travel Time Savings ⁷	Benefit to I-95 ⁸	Benefit to US 17 ⁹	Benefit to Rte 3 ¹⁰	Consistency with Local & Regional Plans ¹¹	Federal Approval for Interstate Access (FHWA) ¹²	Federal Approval (Env. Permits) ¹³	NPS Park Land ¹⁴	Civil War Battlefields ¹⁵	Conservation Easements ¹⁶	Scenic & Recreational Rappahannock & Rapidan Rivers ¹⁷	Protected Species 18	Wetlands ¹⁹	Relocations Residential & Business ²⁰
Alt 2B	1.5	\$37				•	•	•	•	•					•	•	•	•		
Alt 4	5.1	\$235							•	•				•	•		•	•		
Alt 5	5.8	\$284							•					•	•			•		
Alt 6	13.5	\$562		-									0	•		0				
Alt 9	19.3	\$846											0	•	•	0				
Alt 10	16.6	\$865		•						•				•	•		_	•		
Alt 11	4.3	\$341				•		•	•					•	•	•	•	•		

Legend		
	Negative Impacts	Positive Impacts
•	Neutral / Minimal / No Negative Impact or Resistance	Neutral / Minimal / No Positive Impact
	Low Negative Impact or Resistance	Low Positive Impact
	Medium Negative Impact or Resistance	Medium Positive Impact
	High Negative Impact or Resistance	High Positive Impact

2nd Screening Results

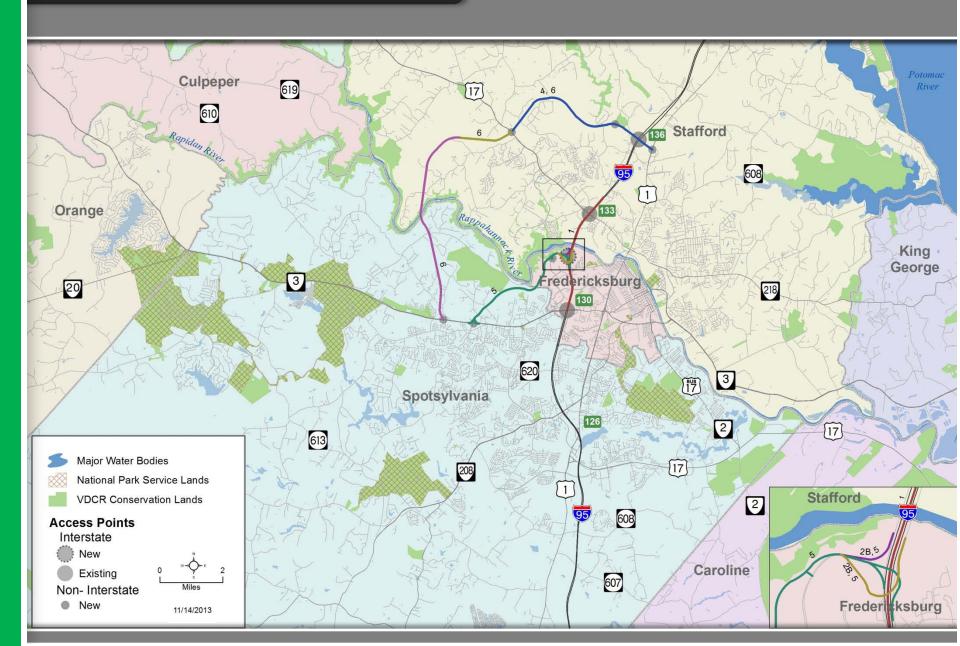
Fredericksburg Area Congestion Relief Study: 2nd Screening Results

					euerick	Spuig	Aica	Conge	.30011	MCHCI .	study.	Ziiu Ju	CCIIII	g nesi	uits				
		-		Traffic Impacts							y Considera	Environmental Impacts							
Alt. #¹	Length in Miles ²	2019 Planning Leve Cost \$Millions ³	Average Daily Traffic (ADT) Served by Alt ⁴	Ratio of ADT to Cost ⁵	Benefit to Regional Vehicle Hours of Delay (VHD) ⁶	Travel Time Savings ⁷	Benefit to I-95 ⁸	Benefit to US 17 ⁹	Benefit to Rte 3 ¹⁰	Consistency with Local & Regional Plans ¹¹	Federal Approval for Interstate Access (FHWA) ¹²	Federal Approval (Env. Permits) ¹³	NPS Park Land ¹⁴	Civil War Battlefields ¹⁵	Conservation Easements ¹⁶	Scenic & Recreational Rappahannock & Rapidan Rivers ¹⁷	Protected Species ¹⁸	Wetlands ¹⁹	Relocations Residential & Business ²⁰
Alt 5	5.8	\$284				0		•		•			•	•		•	•		
Alt 5B	10.9	\$519												•		•	•		
Alt 6	13.5	\$562												•					
Alt 2B	1.5	\$37							•		0			•					.0.

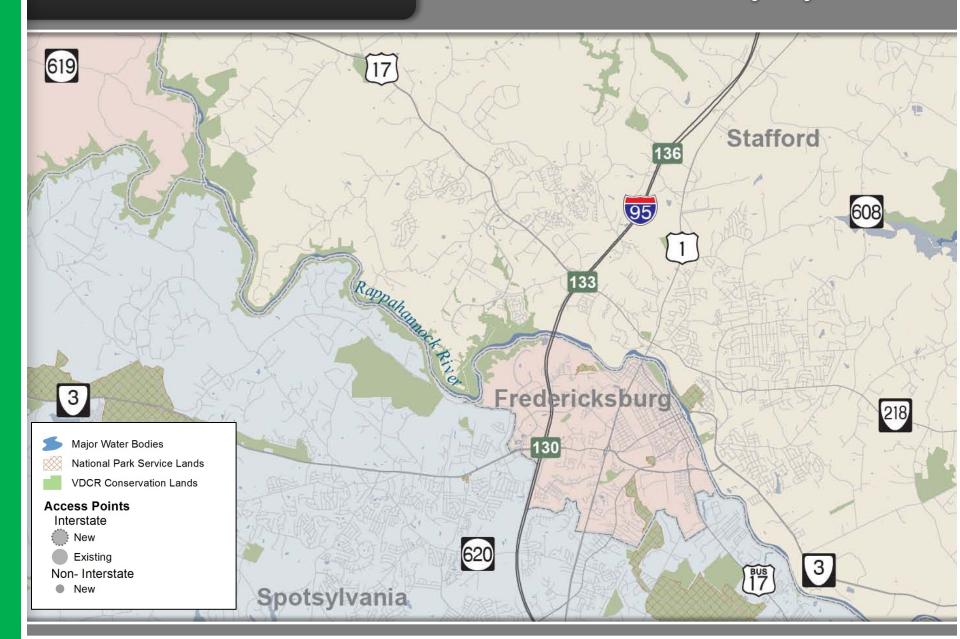
Legend	Le	ge	nd	
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	Negative Impacts		Positive Impacts
•	Neutral / Minimal / No Negative Impact or Resistance	•	Neutral / Minimal / No Positive Impact
	Low Negative Impact or Resistance		Low Positive Impact
	Medium Negative Impact or Resistance		Medium Positive Impact
	High Negative Impact or Resistance		High Positive Impact

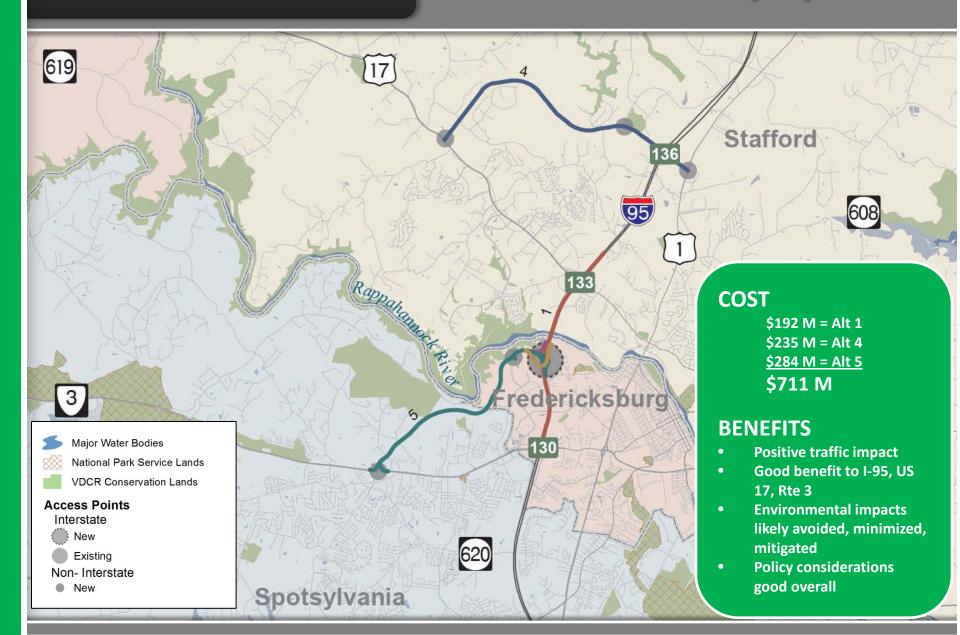
2nd Screening Results



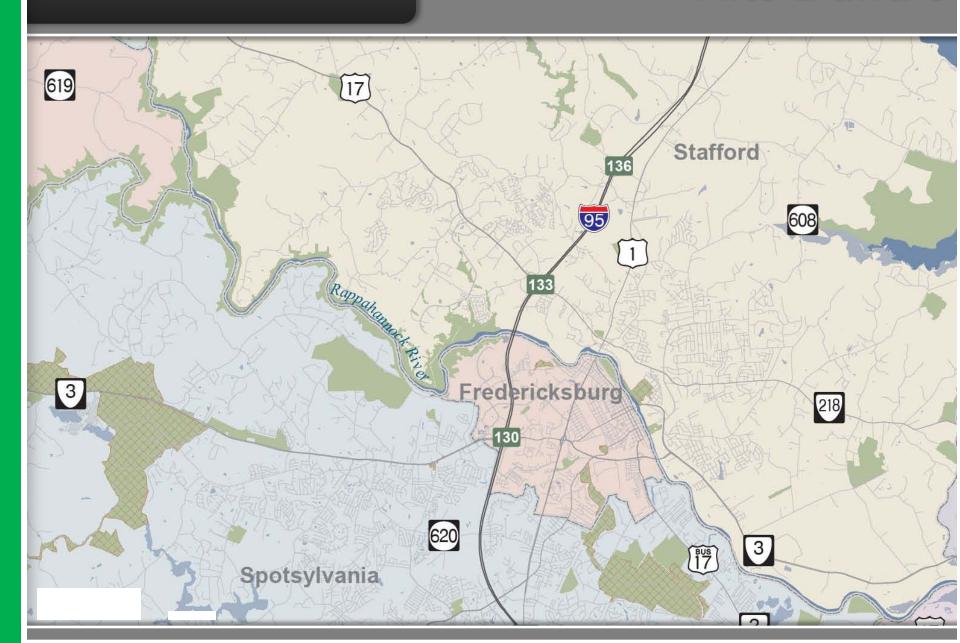
Alts 1, 4, and 5



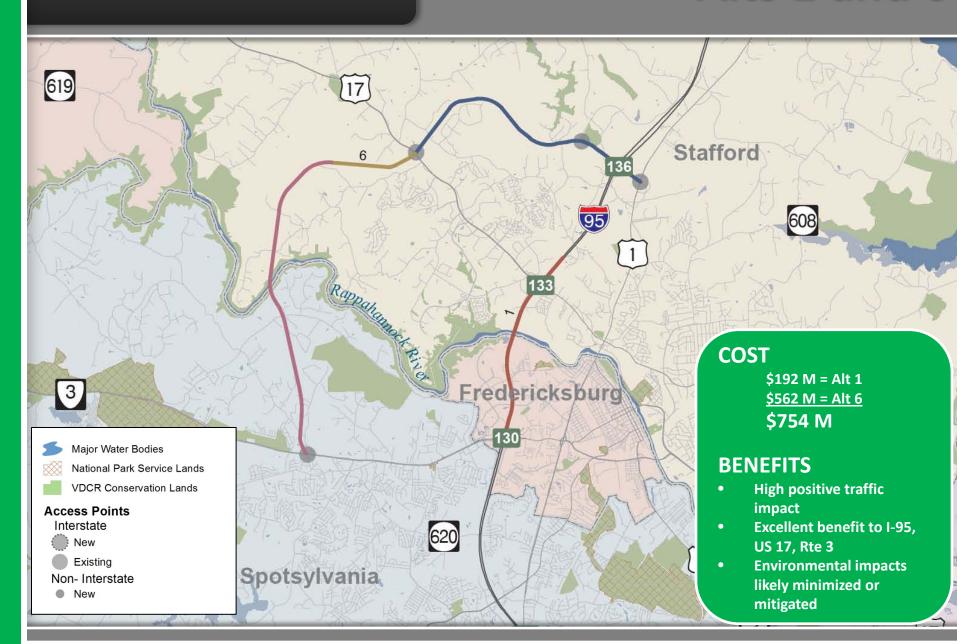
Alts 1, 4, and 5



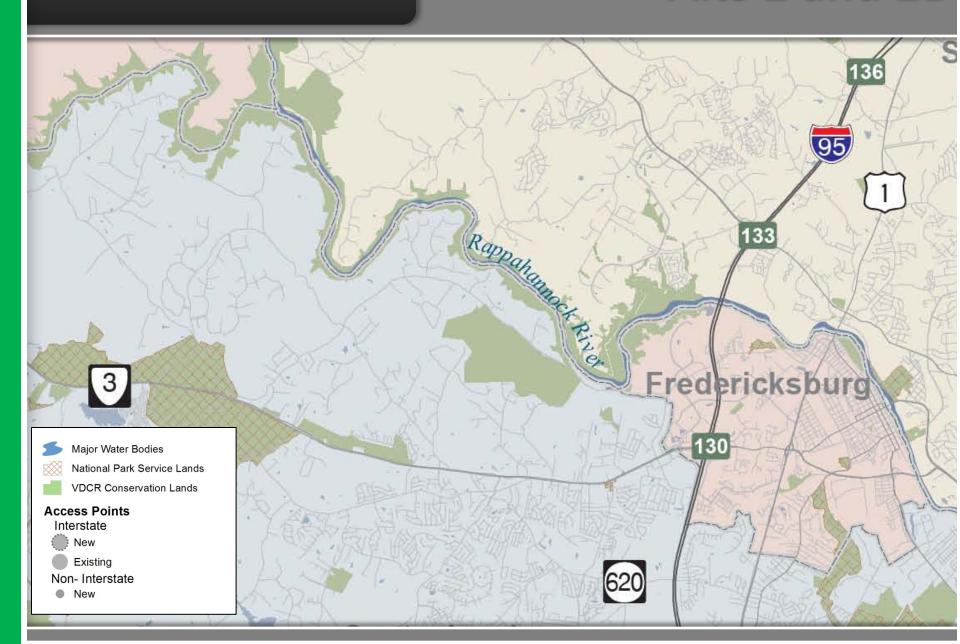
Alts 1 and 6



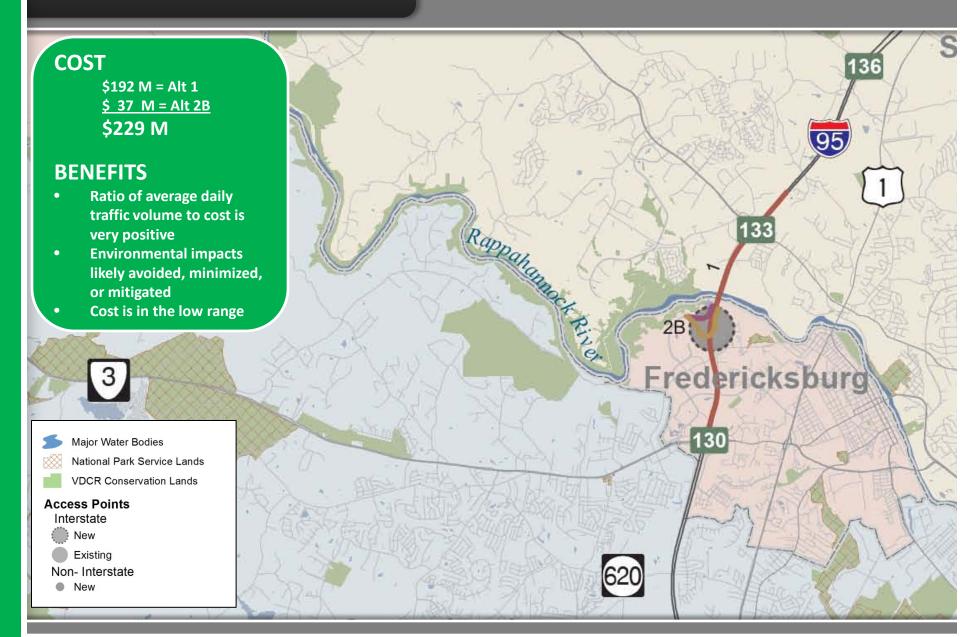
Alts 1 and 6



Alts 1 and 2B



Alts 1 and 2B



Next Steps

- **VDOT seeks MPO endorsement**
- Determination of future phases of study for conceptual alternatives
- CTB to consider the project(s) for inclusion in the prioritization process for the Six Year Improvement Program
- A Transit Component will be included as part of any and all recommendations