

COMMONWEALTH of VIRGINIA

Commonwealth Transportation Board

Shannon Valentine Chairperson 1401 East Broad Street Richmond, Virginia 23219 (804) 786-2701 Fax: (804) 786-2940

COMMONWEALTH TRANSPORTATION BOARD

We are concerned about your health, and we are committed to do all we can to reduce the risk and spread of novel coronavirus. Governor Ralph Northam declared a state of emergency in Virginia on Thursday, March 12 in response to COVID-19. In light of this action, we have decided to conduct the June 2020 Commonwealth Transportation Board (CTB) meeting using electronic communications in accord with Item 4-0.01.g. of Chapter 1283 (2020 Acts of Assembly), as the COVID-19 emergency makes it impracticable or unsafe to assemble in a single location. The purpose of the meeting is to discuss or transact the business statutorily required or necessary to continue operation of the CTB and the discharge of its lawful purposes, duties, and responsibilities.

All board members will be participating remotely. The public may view the meeting via live stream by clicking the "View video" button at the following

link: <u>http://www.ctb.virginia.gov/public_meetings/live_stream/default.asp</u>. There will be opportunity for public comment at the beginning of the June 17, 2020 Action meeting which will start upon adjournment of this meeting. Public comment can be submitted by calling the following telephone number 1-252-858-0120 followed by PIN: 437 401 906# when it is announced that public comment will begin. A caller may be placed on hold until others who have called in earlier have had opportunity to speak.

In the event there is an interruption in the broadcast of the meeting, please call (804) 729-6495.

Should you wish to offer comment regarding how meetings using electronic communications technology compare to traditional meetings when the CTB is physically present, you may complete the FOIA Council's Electronic Meetings Public Comment form appearing at the end of this agenda and submit it to the FOIA Council as described on the Form.

WORKSHOP AGENDA

June 17, 2020 9:00 a.m.

- 1. Virginia COVID-19 Traffic Trends Mena Lockwood, Virginia Department of Transportation
- 2. Route 340 Improvements Clarke County Virginia Randy Kiser, Virginia Department of Transportation

Agenda Meeting of the Commonwealth Transportation Board Workshop Session June 17, 2020 Page 2

- 3. Federal Transportation Grant Anticipation Notes Series 2020 Laura Farmer, Virginia Department of Transportation
- SMART SCALE Proposed Budget Increase
 I-81 Exit 300 Southbound Acceleration Lane Extension
 UPC 111054 Staunton District
 Kimberly Pryor, Virginia Department of Transportation
- 5. SMART SCALE Update Chad Tucker, Office of Intermodal Planning and Investment
- 6. Master Tolling Agreement Update Stephen Brich, Virginia Department of Transportation
- 7. Hampton Roads Express Lanes Overview Stephen Brich, Virginia Department of Transportation
- 8. Director's Items Jennifer Mitchell, Virginia Department of Rail & Public Transportation
- 9. Commissioner's Items Stephen Brich, Virginia Department of Transportation
- 10. Secretary's Items Shannon Valentine, Secretary of Transportation

#



COVID-19 Traffic Trends

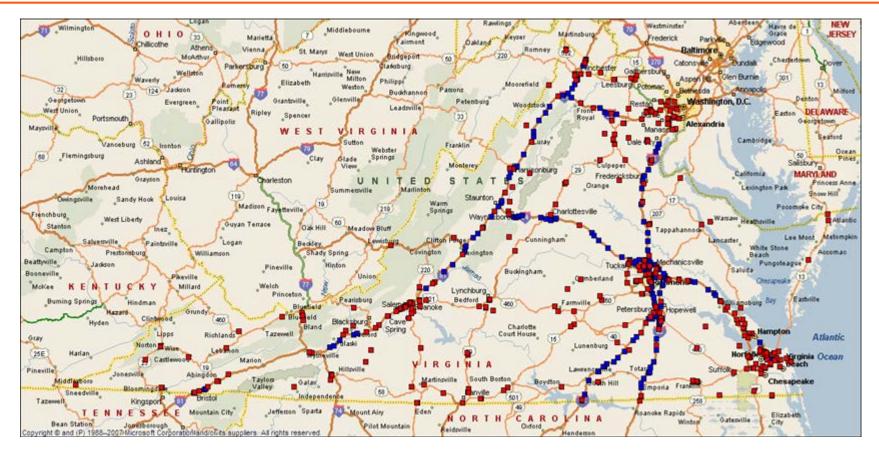
Volume, Speed, Crash

VDOT Traffic Engineering and Operations Divisions

06/17/20

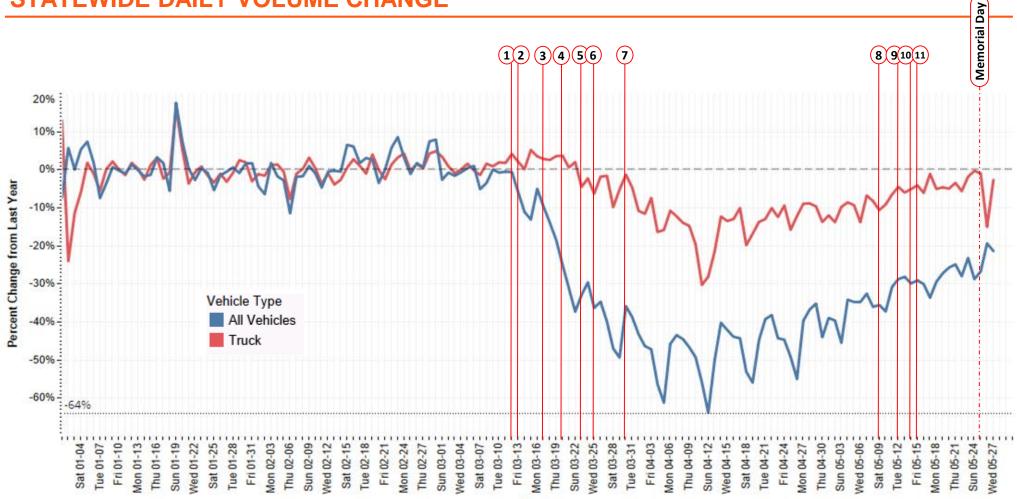
Volume Source

VDOT Traffic Monitoring System (TMS)



512 Continuous Count Stations •306 Road Sensors (CCS) •206 Non-Intrusive (Radar) Sensors (NCCS)

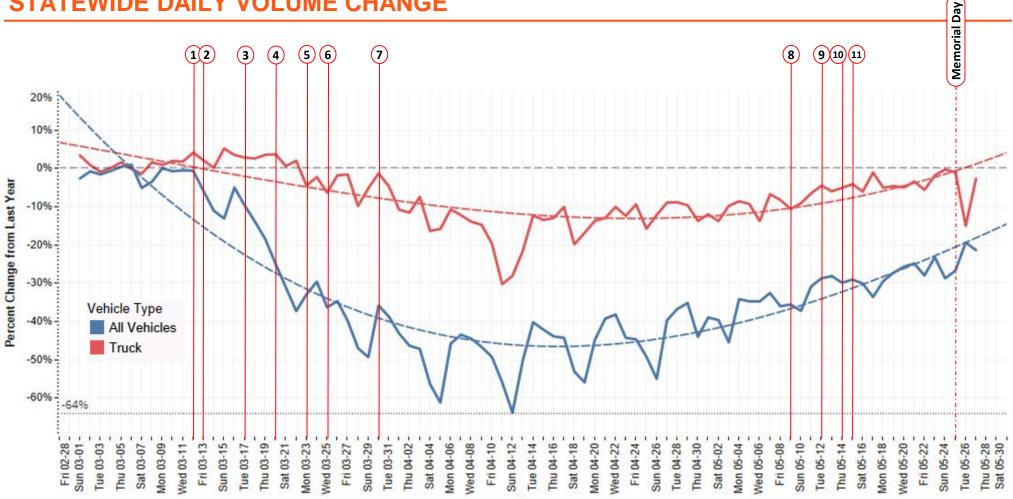
STATEWIDE DAILY VOLUME CHANGE



Date

#	Date	Governor Action	#	Date	Governor Action
1	3/12	Declares state of emergency	7	3/30	Issues statewide stay-at-home order until June 10
2	3/13	Closes schools for two weeks, beginning 3/16	8	5/09	Phase One will begin no sooner than Friday, 05/15
3	3/17	Advises to avoid non-essential gatherings of more than 10	9	5/12	Delays Phase 1 for Northern Virginia Localities till 05/28
4	3/20	State agencies begin process of implementing telework where possible/applicable	10	5/14	Delays Phase 1 for Accomack County and the City of Richmond till 05/28
5	3/23	Close - Schools for rest of school yr, Non-essential business, Restaurants; No gathering more than 10	11	5/15	Phase One Begins
6	3/25	Directs hospitals to stop elective surgeries			

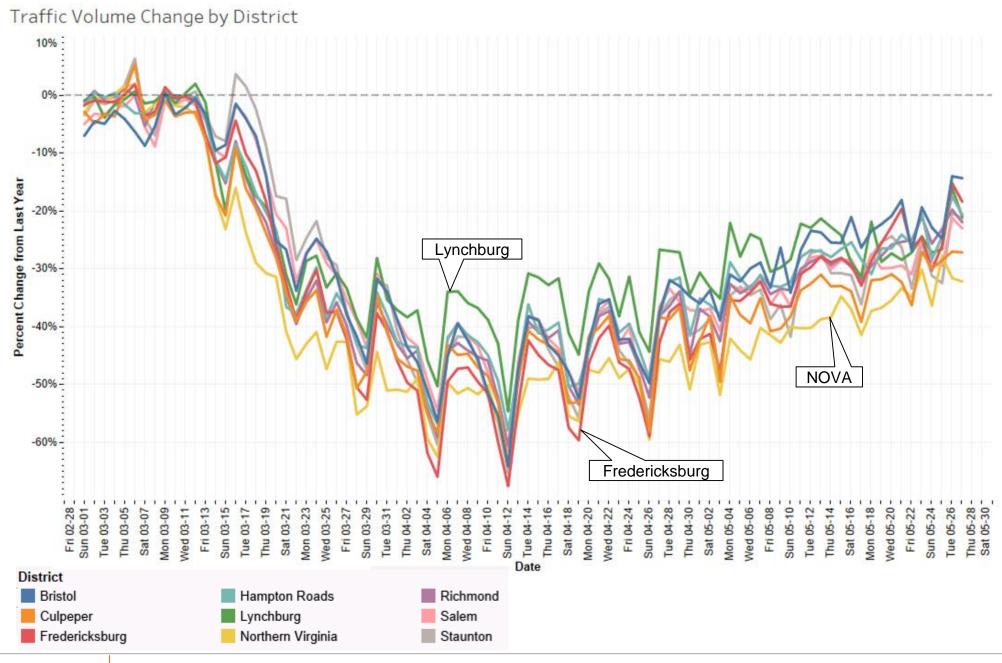
STATEWIDE DAILY VOLUME CHANGE



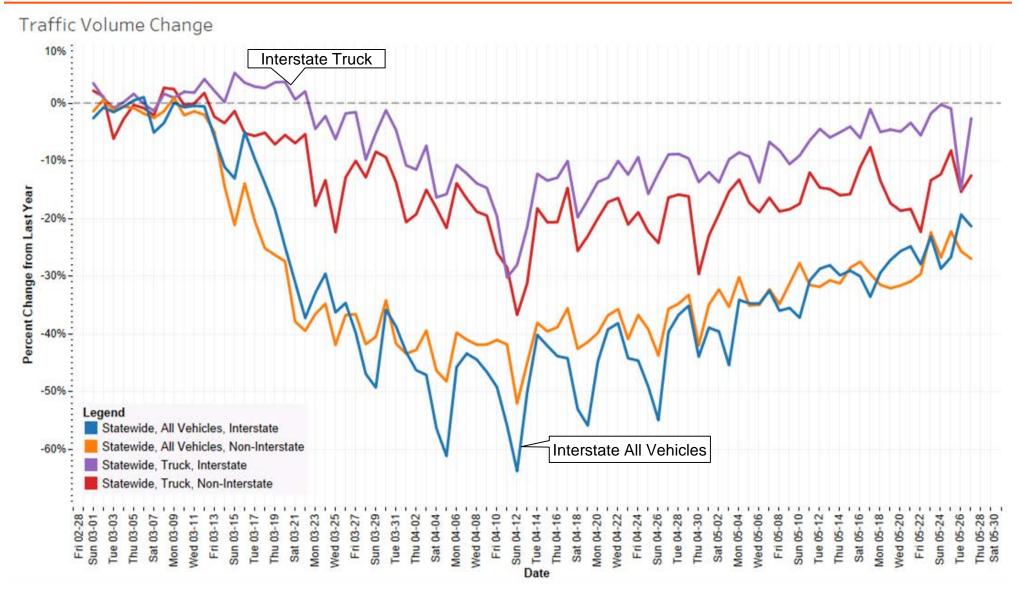
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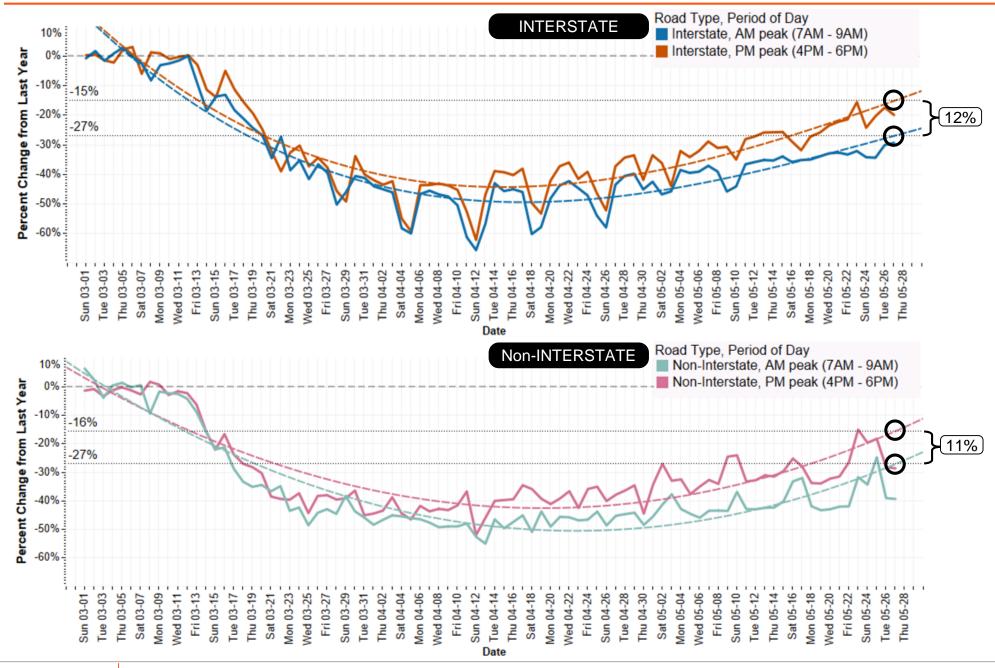
All Vehicles Volume Change By District (Interstates plus Non-Interstates)



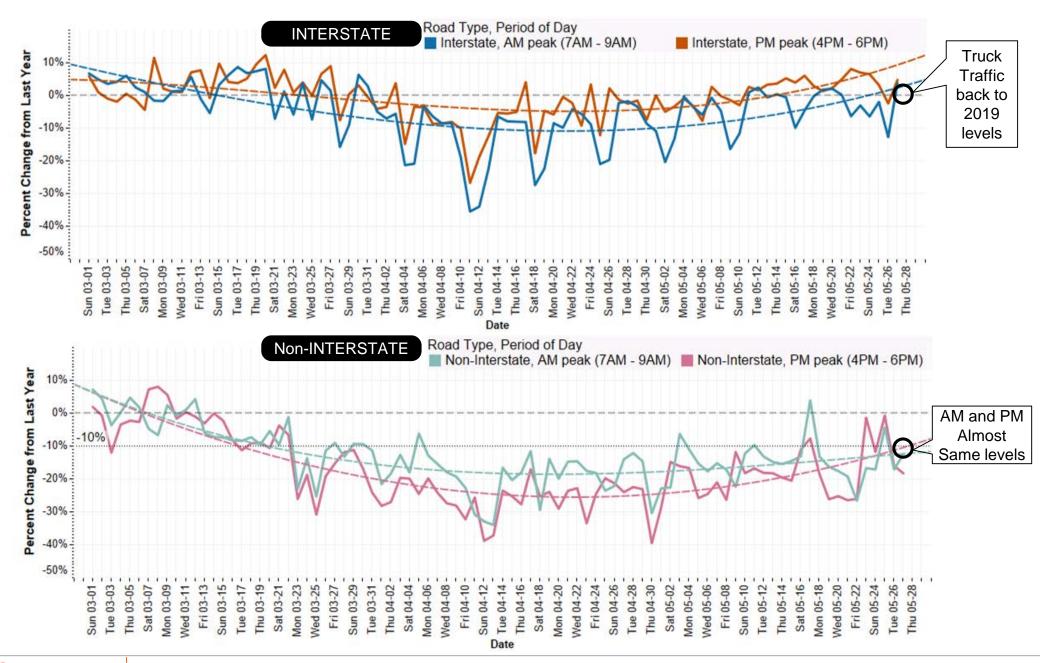
All Vehicles and Truck Daily Volume Change Statewide



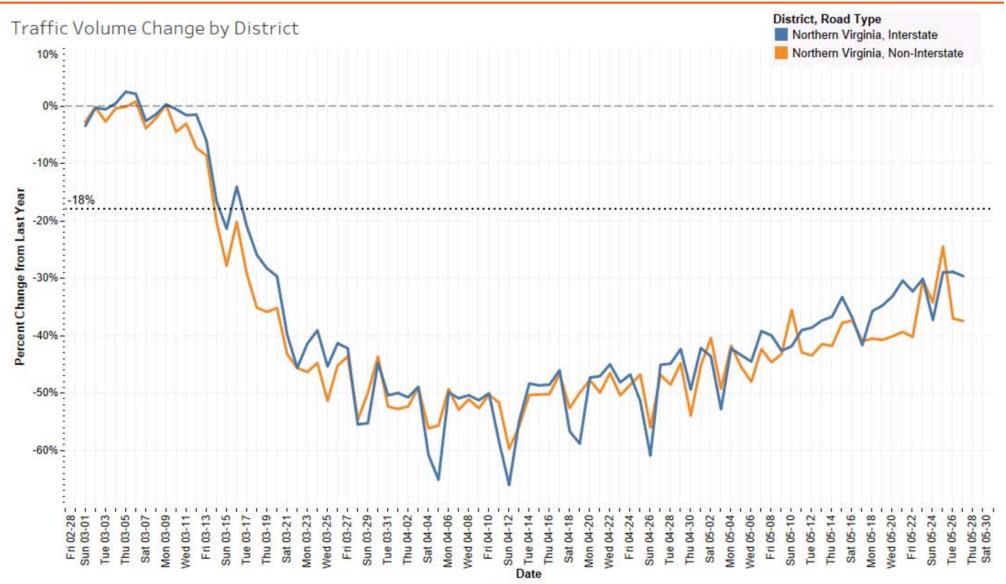
Statewide Peak Period Volume Change for All Vehicles



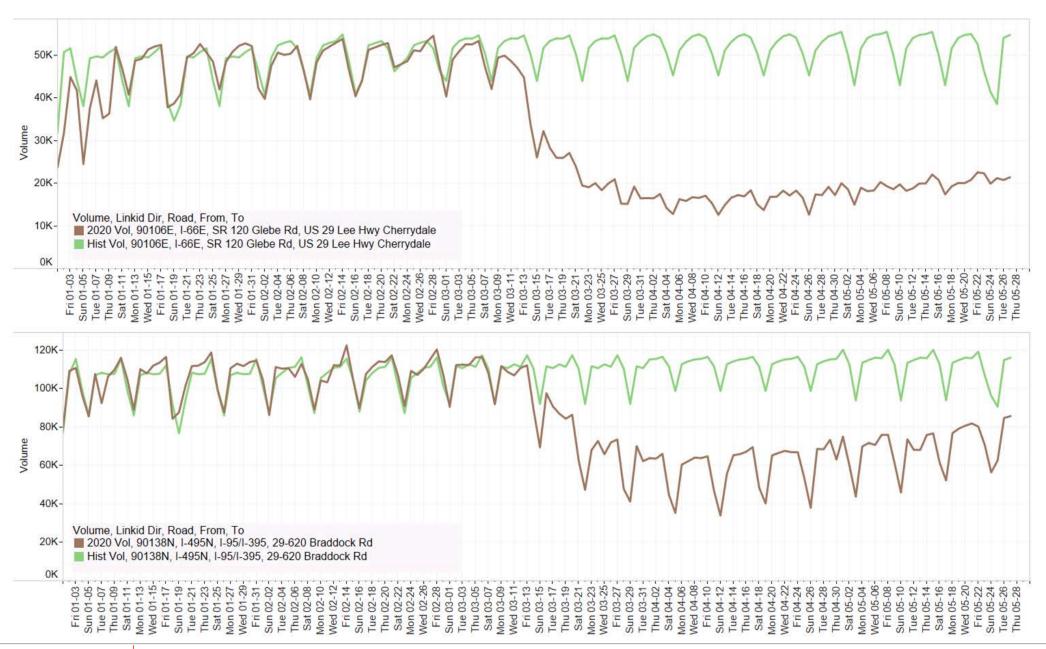
Statewide Peak Period Volume Change for <u>Trucks</u>



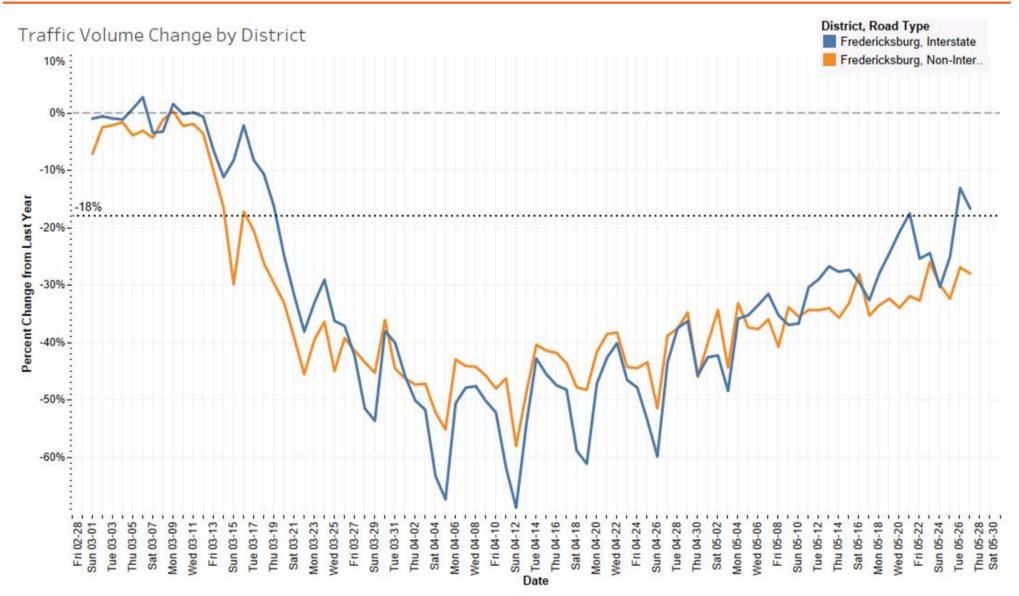
All Vehicles Daily Volume Change in Northern Virginia



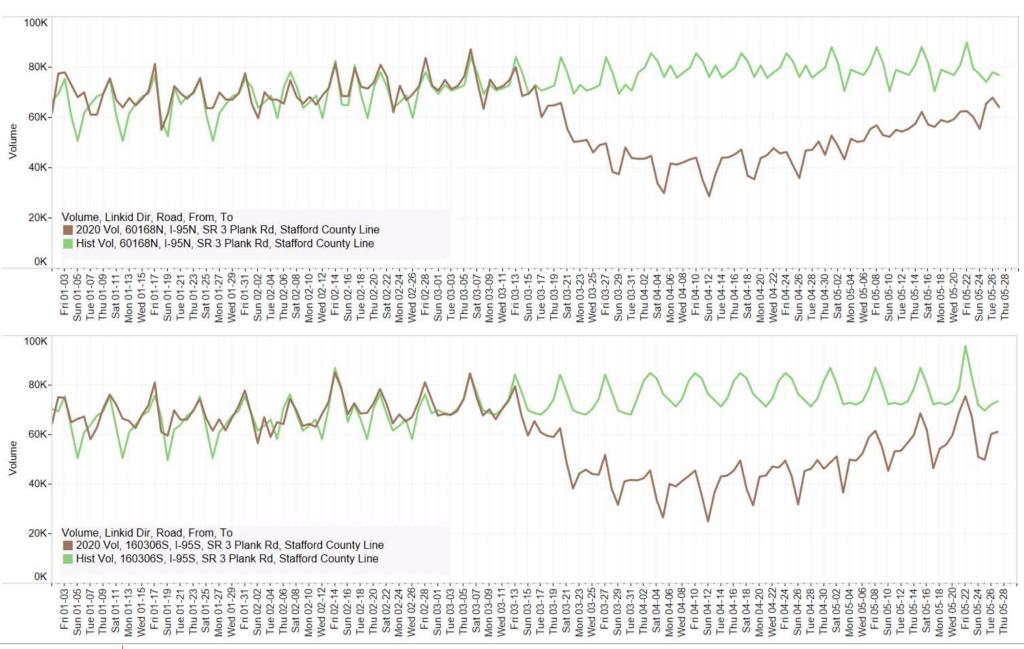
All Vehicles Daily Volume in Northern Virginia



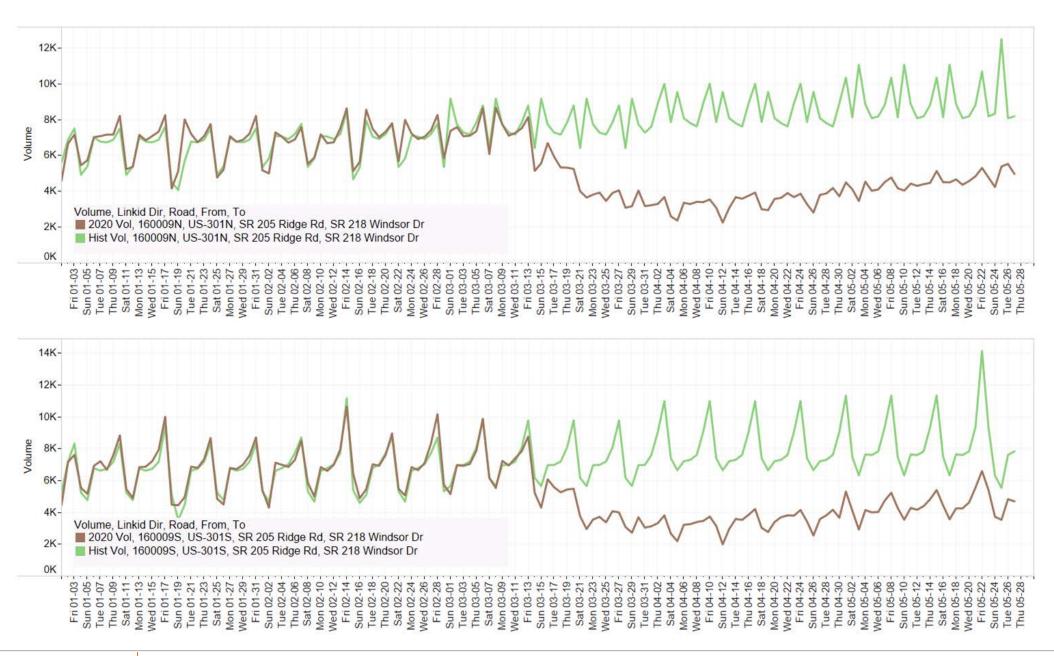
All Vehicles Daily Volume Change in Fredericksburg



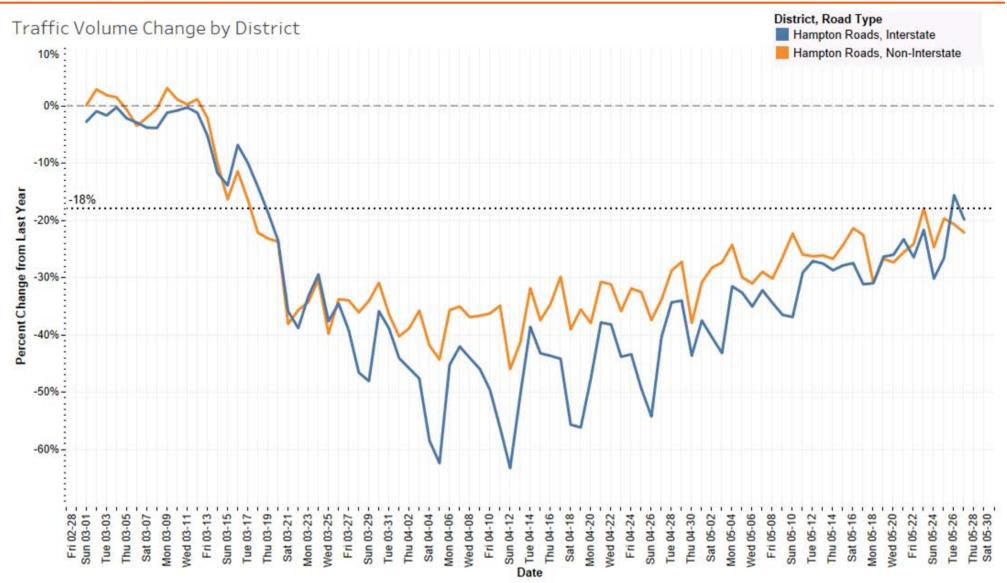
All Vehicles Daily Volume in Fredericksburg



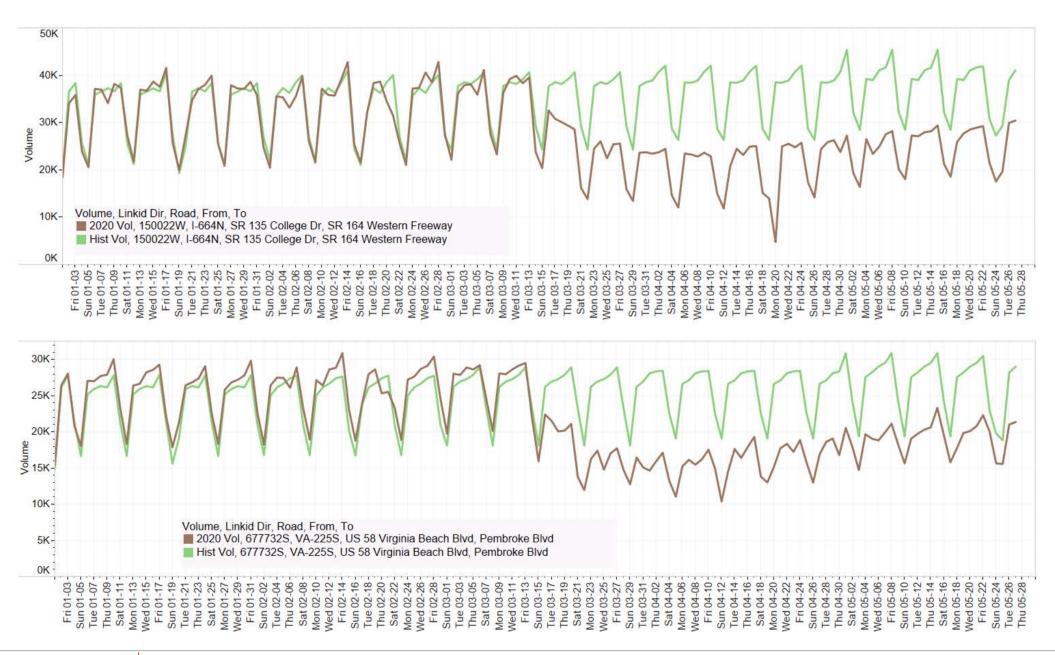
All Vehicles Daily Volume in Fredericksburg



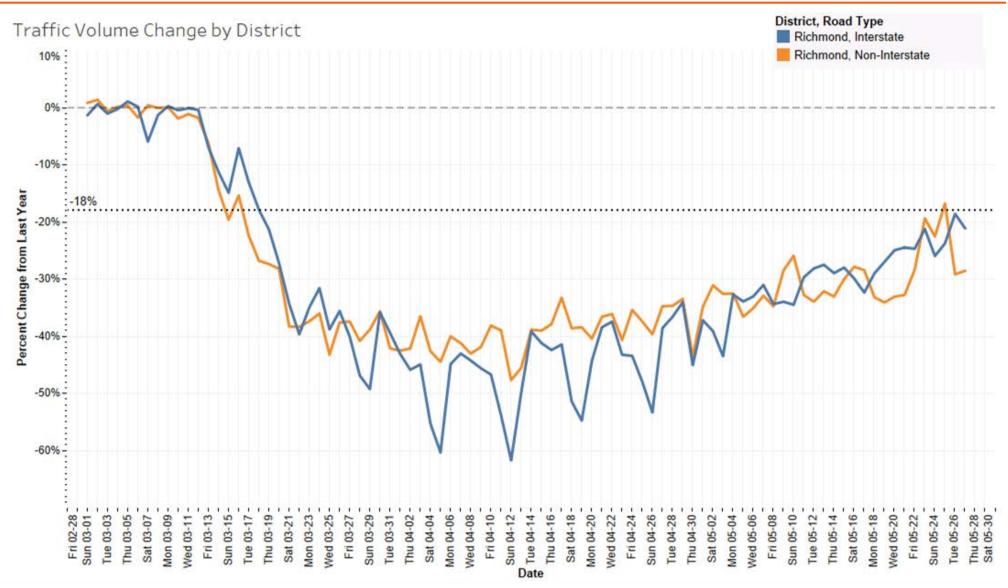
All Vehicles Daily Volume Change in Hampton Roads



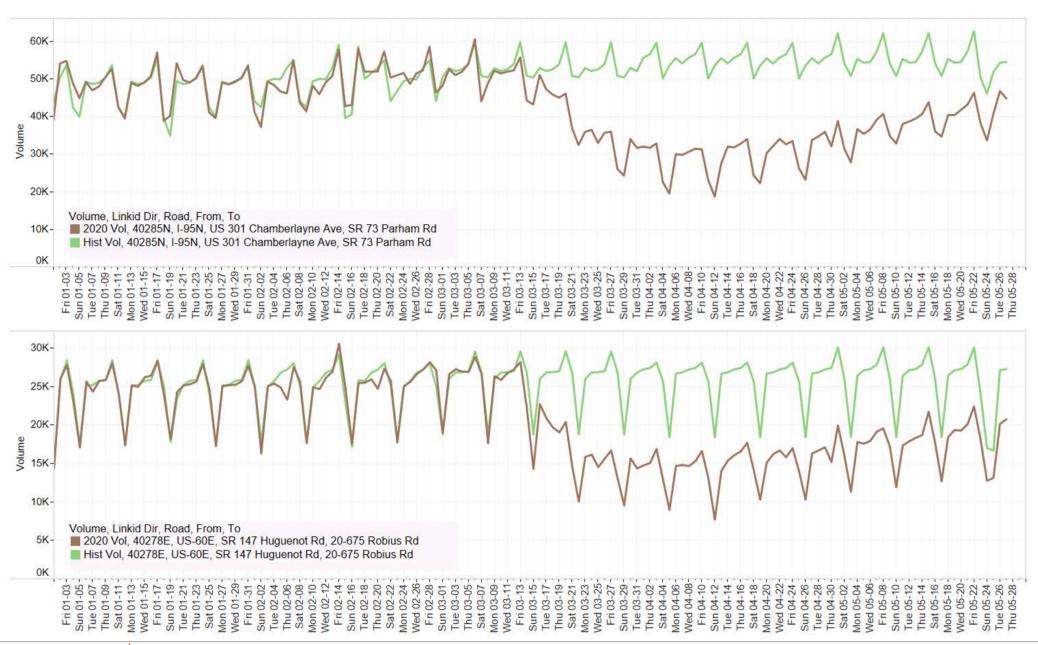
All Vehicles Daily Volume in Hampton Roads



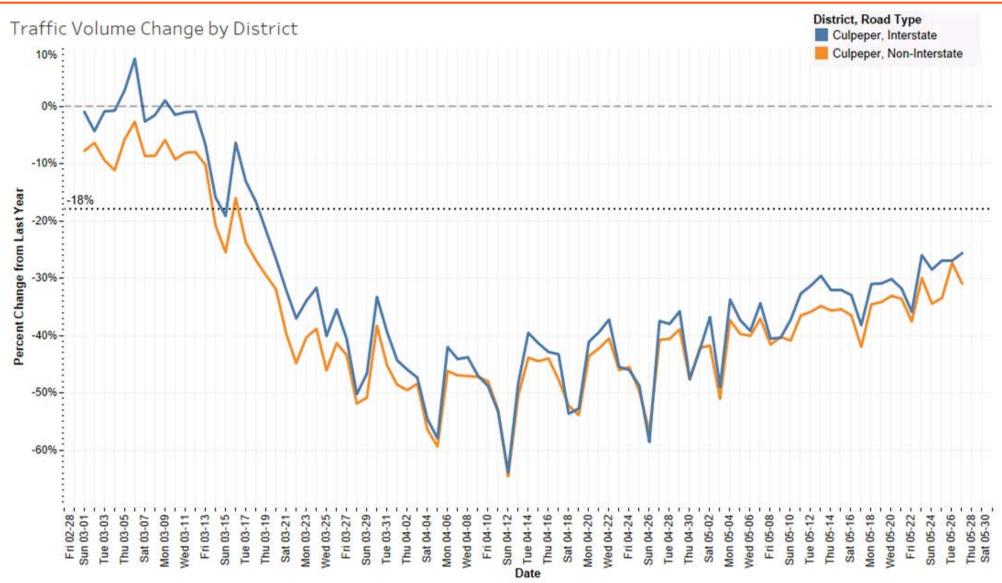
All Vehicles Daily Volume Change in Richmond



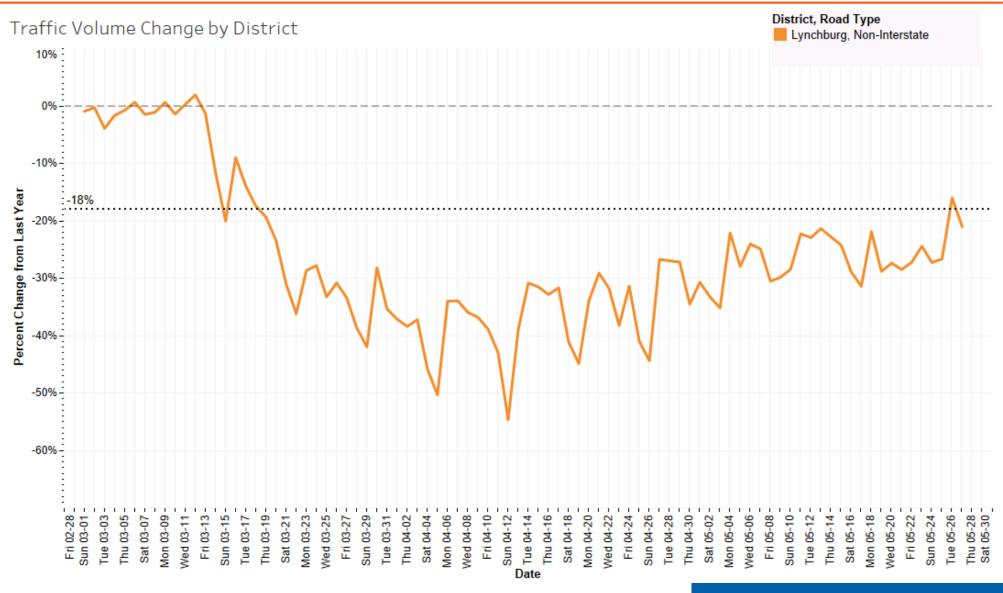
All Vehicles Daily Volume in Richmond



All Vehicles Daily Volume Change in Culpeper

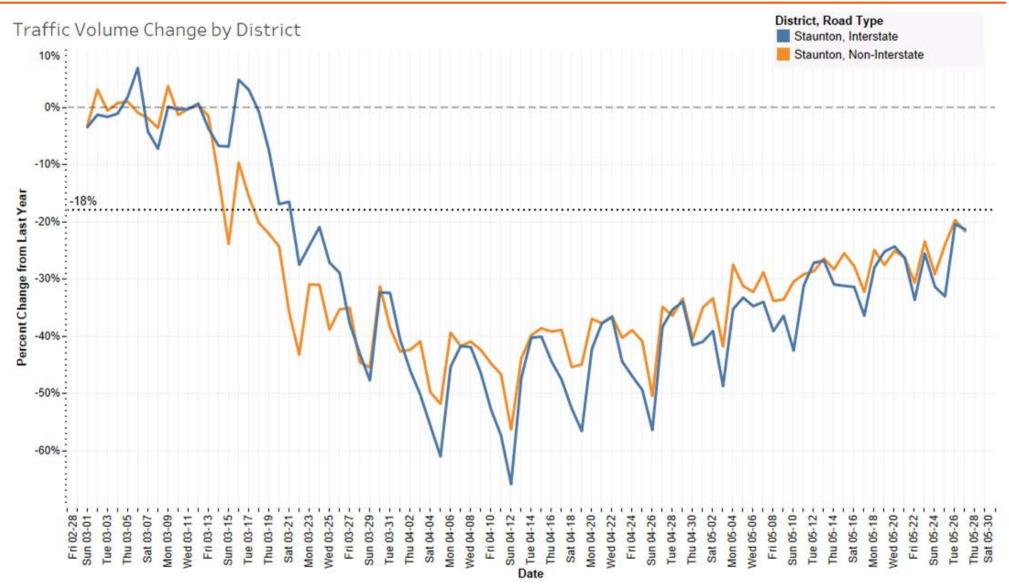


All Vehicles Daily Volume Change in Lynchburg

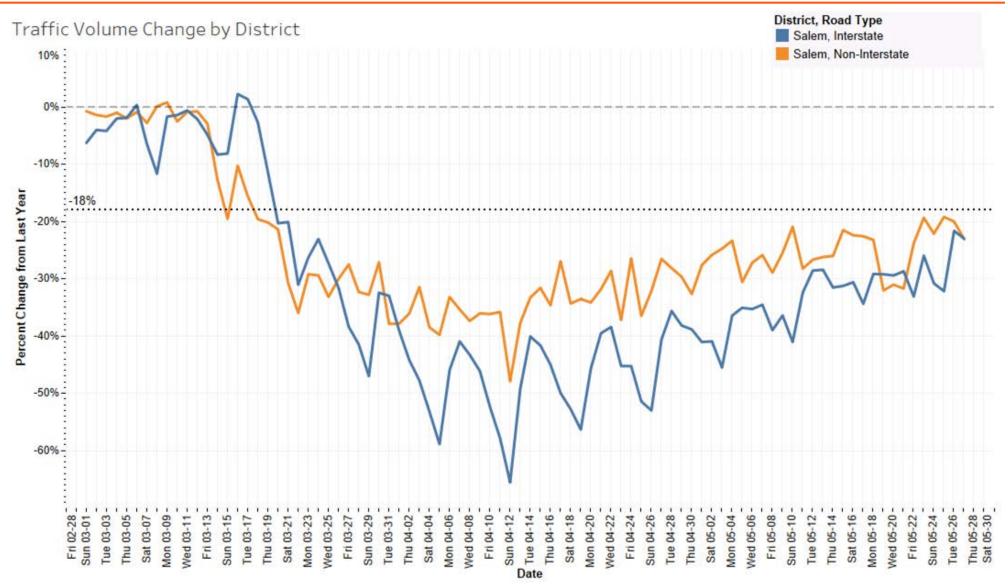


Lynchburg does not have Interstate

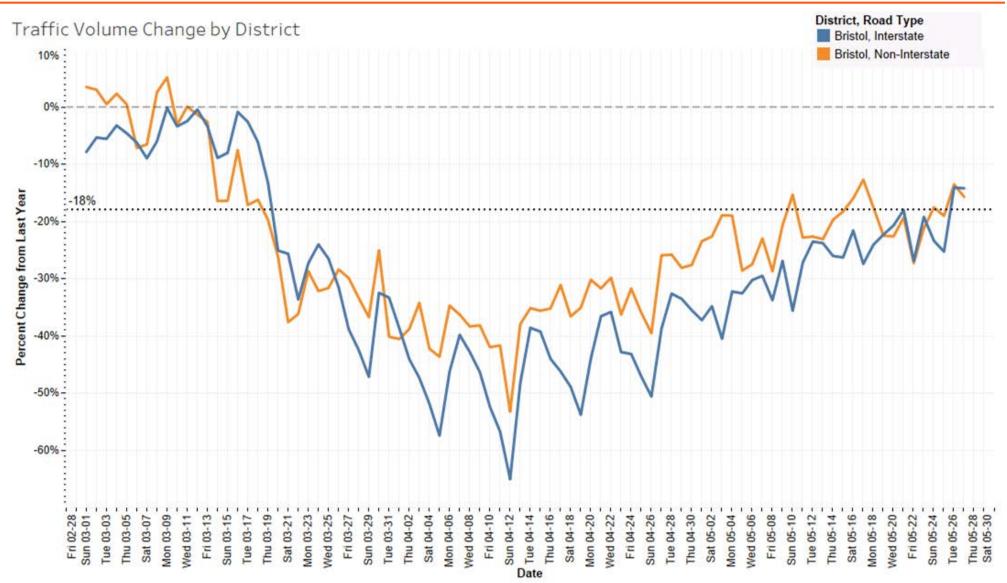
All Vehicles Daily Volume Change in Staunton



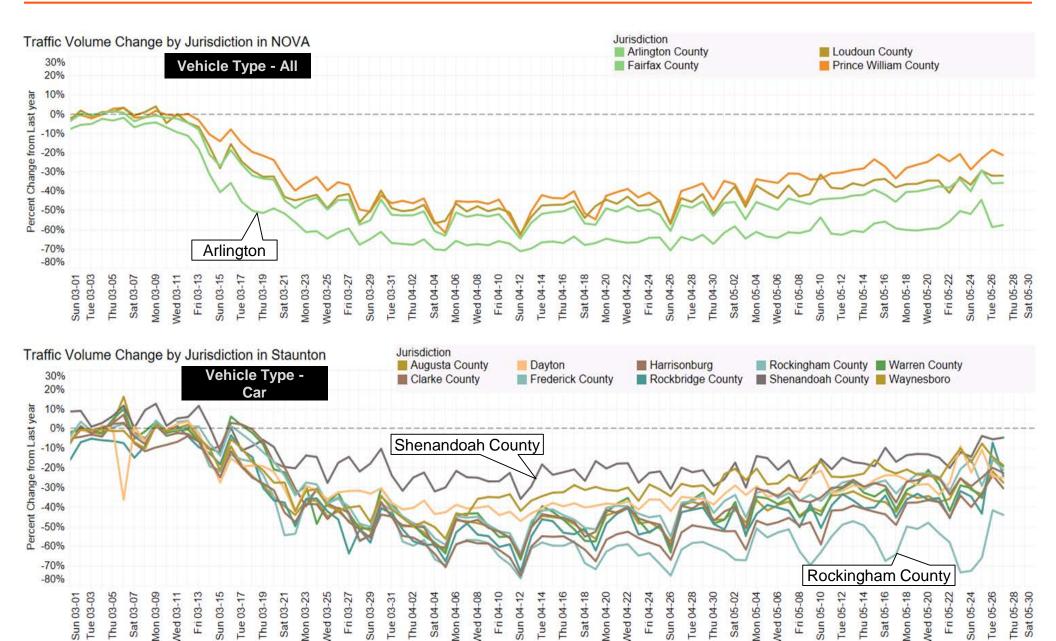
All Vehicles Daily Volume Change in Salem



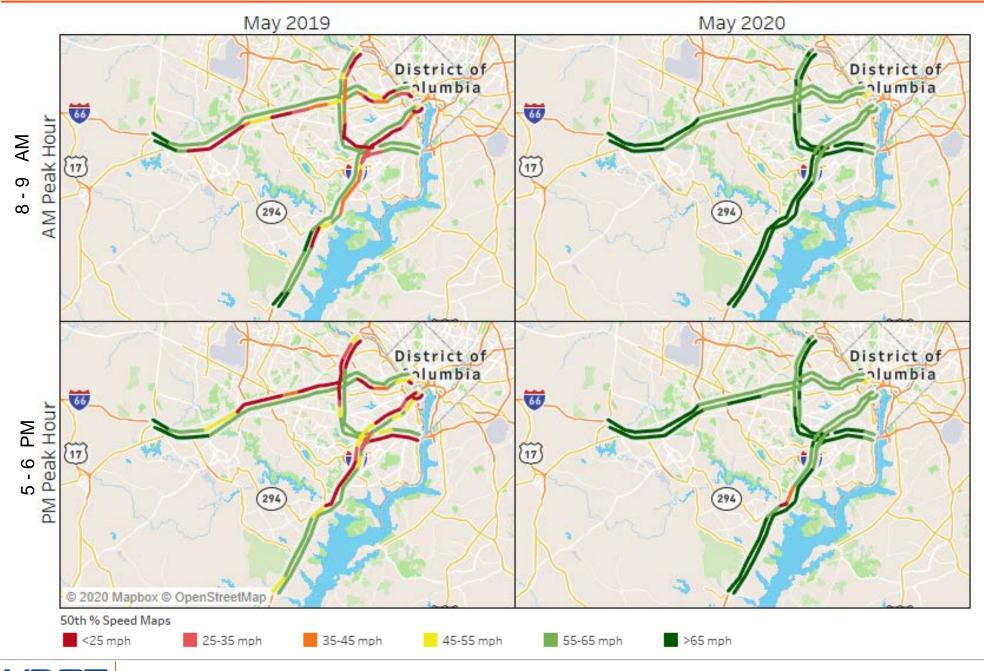
All Vehicles Daily Volume Change in Bristol



Volume Change by Jurisdiction

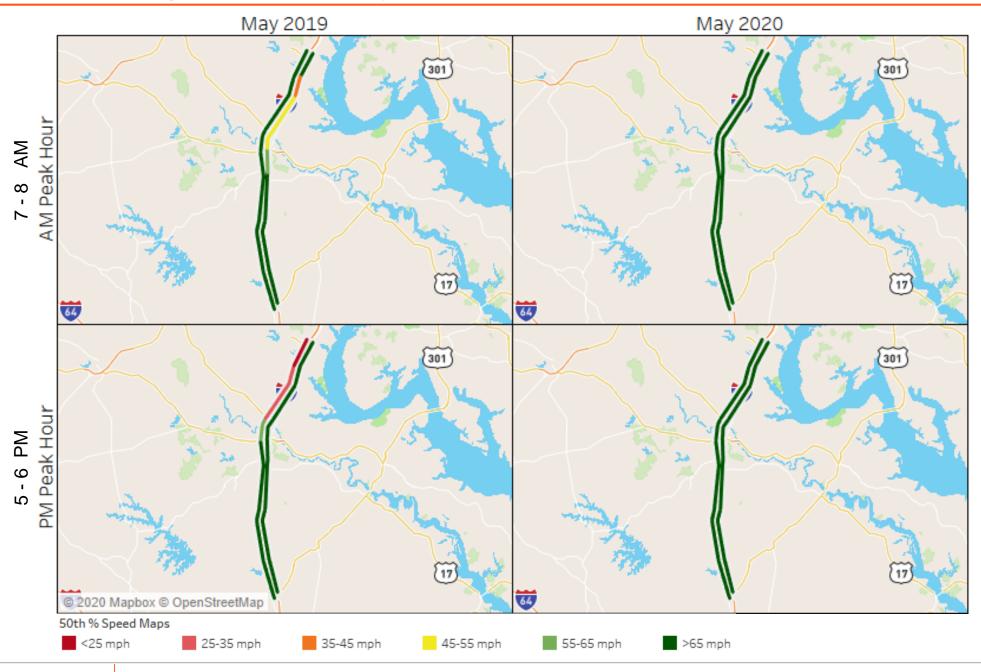


Northern Virginia District - Weekday

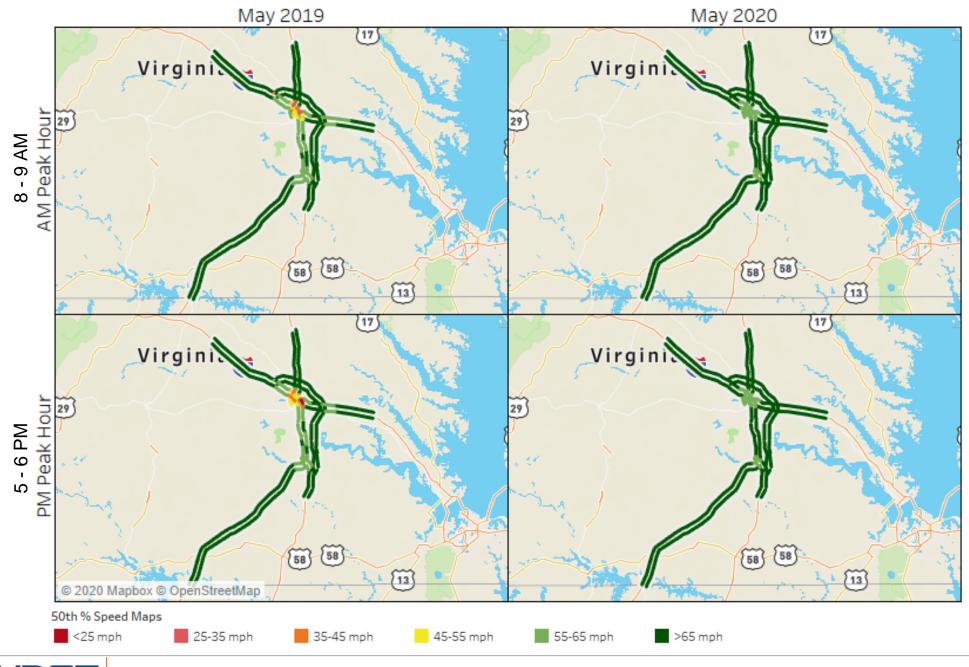


COVID-19 Traffic Trends | 06/05/2020

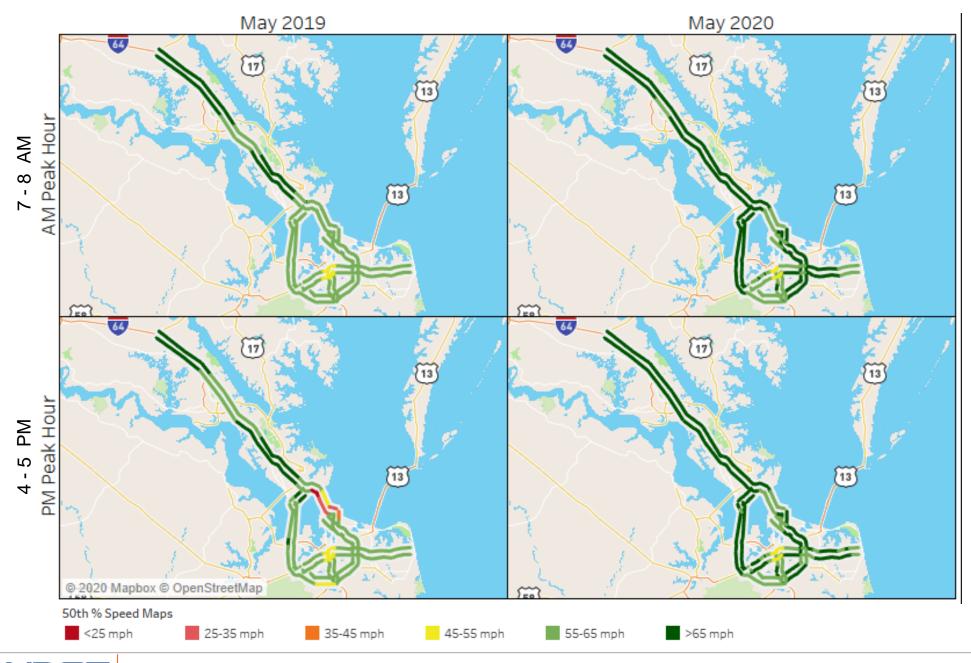
Fredericksburg District - Weekday



Richmond District - Weekday

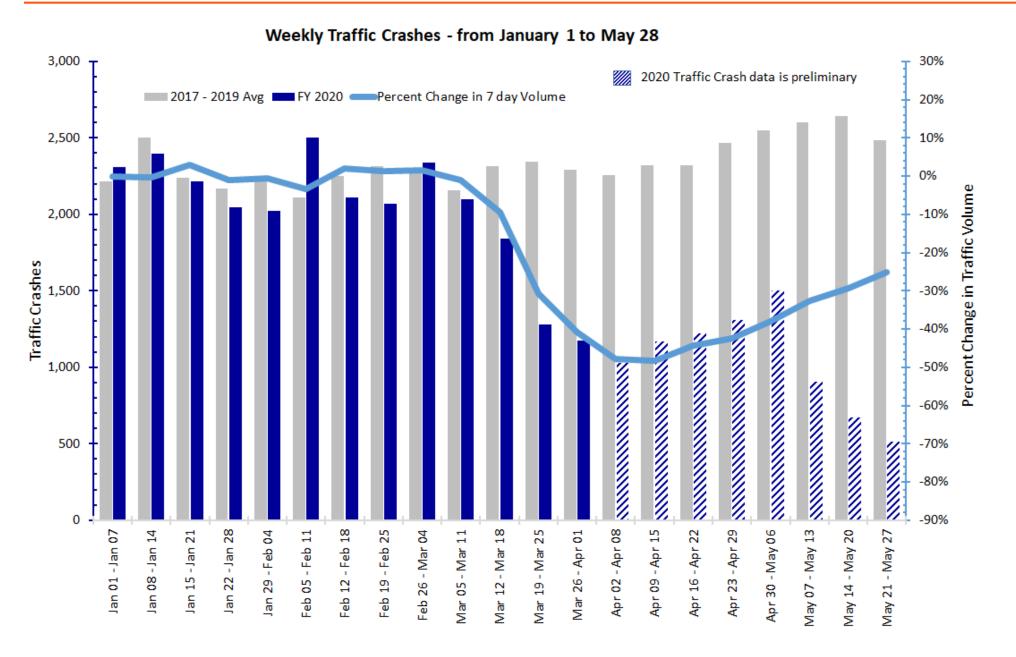


Hampton Roads District - Weekday



Weekly Traffic Crash

Statewide All Systems





Mena Lockwood, P.E., Assistant State Traffic Engineer, mena.lockwood@vdot.virginia.gov



ROUTE 340 IMPROVEMENTS CLARKE COUNTY VIRGINIA

Interstate Agreement to Allow Design and Construction by West Virginia

Commonwealth Transportation Board Briefing

Randy Kiser, P.E. District Engineer Staunton District

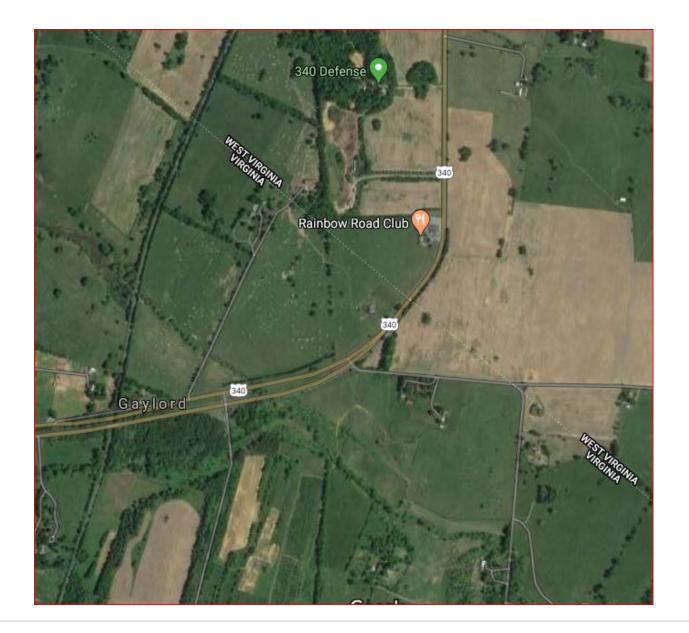
June 16, 2020



Route 340, looking South from W. Virginia Line

Overview

- Background
- VA Code Section 33.2-221 (B)
- Interstate Agreement
 with West Virginia



Background

- Existing configuration of U.S. 340 at the Clarke County, Virginia and Jefferson County, West Virginia line.
- West Virginia wishes to construct a 4 lane facility and construct a tie-in to the existing 4 lane facility in Virginia.
- West Virginia to award design build contract in August 2020.
- Anticipated completion Spring 2024

VA Code 33.2-221(B)

Pursuant VA Code § 33.2-221 (B):

The Board shall have the power and duty to enter into all contracts with other states necessary for the proper coordination of the location, construction, maintenance, improvement, and operation of transportation systems, including the systems of state highways with the highways of such other states, and where necessary, seek the approval of such contracts by the Congress of the United States.

U.S. 340 Improvement Agreement with West Virginia

- Virginia and West Virginia propose a highway improvement project to improve the existing two-lane section of United States 340, which is between the existing four-lane roadway section in Clarke County, Virginia and the existing four-lane section of the Charles Town Bypass in Jefferson County, West Virginia.
 - In Virginia, the length is approximately 0.19 mile.
 - In West Virginia, the length is approximately 4.10 miles.

- West Virginia would be the lead agency who would design and construct the Project under the West Virginia Highways Design Build Program.
- The Design Build Contractor would be responsible for maintenance of the Project during the construction phase.
 - West Virginia shall be responsible for the lead construction supervision of the project and shall provide for construction engineering means, including the review of shop drawings as required.
 - Virginia shall have approval of contractors or materials in that portion of the project situated within Virginia.
 - Virginia and West Virginia will be responsible for the continuing maintenance of their respective sections of the Project once complete.

- Virginia and West Virginia shall bear 100% of the cost of construction of their portion of the Project, including any change orders within their respective states.
 - The total estimated cost of construction of the project is \$35.6 M and only includes design and construction costs.
 - In Virginia, the cost share is 4.52% (\$1.6 M)
 - In West Virginia, the cost share is 95.48%.
 - A Right of Way phase is not anticipated for the portion of the work in Virginia.
 - Based on Virginia's cost estimate, Virginia is benefiting from West Virginia's economy of scale.

- The agreement states that West Virginia shall invoice Virginia annually beginning on or about July 1, 2020, or after the Project is successfully let and awarded and substantial work is underway/completed in Virginia, whichever occurs later.
 - 1/5 of Virginia's 4.52% share of the lump sum bid price for a period of up to 5 years.
 - West Virginia will balance bill if completed sooner than 5 years.

Next steps:

- VDOT will present CTB with a resolution, authorizing the Commissioner to execute the U.S. 340 Improvement Agreement with West Virginia.
- Once the Agreement is executed and the project begins, VDOT will be reimbursing West Virginia for the design and construction costs for the project in Virginia, not to exceed the limits set out in the Agreement.
- Once the work is complete and has been inspected and achieves final acceptance by Virginia, Virginia will add the modified mileage into the Primary System of highways for future maintenance.



Federal Transportation Grant Anticipation Notes Series 2020

June 17, 2020 Laura Farmer Chief Financial Officer

Commonwealth Transportation Board: Federal Transportation Grant Anticipation Notes, Series 2020

Summary Terms of Offering*					
Issuer	Commonwealth Transportation Board				
Projects	Projects with GARVEE allocations in the Six-Year Improvement Program (SYIP)				
Anticipated Ratings	Double-A Category				
Pricing Date	September 2020				
Security	The Series 2020 bonds are payable from and secured by revenues (i) first, from Project specific reimbursements, (ii) legally available revenues from the TTF, and (iii) from other such funds designated by the General Assembly for such purposes.				
Par (in millions)	\$130 million*				
Structure	Serial Bonds 2020 - 2035				
Final Maturity (years)	15				

* Preliminary and subject to change

GARVEE Program Overview

Chapter 830 and 868 of the Acts of Assembly of 2011 authorized issuance of \$1.2 billion of GARVEEs

Successor program to Federal Highway Reimbursement Anticipation Notes (FRANs) authorized in 2000

Limits outstanding GARVEEs and FRANs to \$1.2 billion

Limits maturity to 20 years

Secured first by project specific federal reimbursements and then by:

- Legally available revenues from TTF
- Other such funds designated by the General Assembly for such purposes

All FRANs were retired in September 2015

Memorandum of Agreement (MOA) with Federal Highway Administration (FHWA) for GARVEE program was executed in December 2011 and updated in November 2019

Exhibit A of MOA identifies approved GARVEE supported projects and has been amended to incorporate additional projects to be supported by this sale

GARVEE Issues

The CTB has issued six series of GARVEEs from 2012 to 2018

Issuances have totaled just more than \$1.3 billion over that period

GARVEEs have supported Downtown and Midtown Tunnels, Martin Luther King Expressway, I-95 Express Lanes, Route 460 Corridor Development Project, I-495 Express Lanes Shoulder Use

Beginning in 2017, GARVEEs have been used to support projects selected through SMART SCALE

Proceeds from the 2020 issue will provide continued support to projects funded previously with GARVEE bonds and 2018 SMART SCALE projects



Debt Service for GARVEE Bonds

Virginia's GARVEE bonds are secured first by project specific federal reimbursements and then by:

legally available revenues from the TTF

other such funds designated by the General Assembly for such purposes

Bond issuances are limited:

Maximum outstanding amount cannot exceed \$1.2 billion

Debt service must have 4x coverage

After this sale:

Outstanding GARVEEs - \$911.7 million (additional revolving authorization provided to SMART SCALE in future years)

Coverage – greater than 10x

Next sale anticipated for Fall 2021 and is estimated to be \$140 million



Recent GARVEE Transactions

Pricings (2019 – 2020 YTD)

	Rhode Island DOT	District of Columbia	State of Ohio	Common-wealth of Massachusetts	Mississippi Development Bank	State of Florida	State of North Carolina	Idaho Housing and Finance Association	Missouri DOT	State of Louisiana	Arizona Transportation Board	СТВ
Ratings (M/S/F)	A2/AA-/-	A2/AA/-	Aa2/AA/-	Aa2/AAA/-	Aa3/AA-/-	A1/AA/A+	A2/AA/A+	A2/-/A+	Aa1/AA+/AA	-/AA/-	Aa2/AA+/AA	Aaı/AA+/AA+
Pricing Date	May 5, 2020	Jan 28, 2020	Dec 4, 2019	Nov 14, 2019	Oct 31, 2019	Oct 10, 2019	May 23, 2019	May 1, 2019	Apr 9, 2019	Apr 4, 2019	Mar 26, 2019	Nov 14, 2018
Additional Security	Stand Alone	Stand Alone	Other lawfully available funds, including State Highway Fund monies	Excess monies available from Commonwealth Transportation Fund (CTF) ⁽²⁾	State Highway Fund monies (subject to annual appropriation)	Stand Alone	Stand Alone	Availability of certain State Highway Revenues ⁽⁴⁾ (subject to appropriation)	Subordinate Pledge from State Road Fund monies	Stand Alone	Other lawfully available funds, including State Highway Fund (SHF) and Regional Area Road Fund (RARF) monies	Discretionary Pledge of TTF Revenues and Other Funds (subject to appropriation)
Series	Series 2020A	Series 2020	Series 2019-1	2019 Series A	Series 2019	Series 2019A	Series 2019	2019 Series A	Series A 2019	Series 2019A	Series 2019A	Series 2018
Par(\$MM)	165.215	277.710	180.100	53.500	49.035	123.225	600.000	122.130	102.705	185.000	62.465	75.750
Structure	Serial 2021 - 2035	Serial 2020 - 2034	Serial 2020 - 2031	Serial 2026 - 2027	Serial 2020 - 2030	Serial 2020 - 2031	Serial 2020 - 2034	Serial 2020, 2030 - 2037	Serial	Serial 2020 - 2031	Serial 2020 - 2034	Serial 2019 — 2033
Final Maturity (Years)	15 Years	15 Years	12 Years	8 Years	11 Years	12 Years	15 Years	18 Years	6 Years	12 Years	15 Years	15 Years
All-in Rate ⁽¹⁾	2.68%	1.97%	1.65%	1.89%	2.55 ^{%(3)}	1.60%	2.40%	3.24%	1.77%	2.33%	2.42%	3.05%

(1) Approximate All-in TIC based on information found in Official Statements (2) CTF monies consist primarily of motor vehicle fuel taxes and registration fees collected in the Commonwealth (3) Taxable bonds (4) Not a legal pledge, but is made available subject to appropriation



Next Steps for Virginia's Seventh GARVEE Issue







SMART SCALE PROPOSED BUDGET INCREASE I-81 EXIT 300 SOUTHBOUND ACCELERATION LANE EXTENSION UPC 111054 – STAUNTON DISTRICT

Commonwealth Transportation Board

Kimberly Pryor – Director, Infrastructure Investment

June 2020

SMART SCALE Policy

CTB Policy for Scope Changes and/or Budget Increases, February 2020

- A project that has been selected for funding must be re-scored and the funding decision re-evaluated if there are significant changes to either the scope or cost of the project, such that the anticipated benefits relative to funding requested would have substantially changed.
- If an estimate increases prior to project advertisement or contract award that exceeds the following thresholds, and the applicant is not covering the increased cost with other funds, Board action is required to approve the budget increase:
 - » i. Total Cost Estimate <\$5 million: 20% increase in funding requested
 - » ii. Total Cost Estimate \$5 million to \$10 million: \$1 million or greater increase in funding requested
 - » iii. Total Cost Estimate > \$10 million: 10% increase in funding requested; \$5 million maximum increase in funding requested

Project Information

I-81 Exit 300 Southbound Acceleration Lane Extension (UPC 111054)

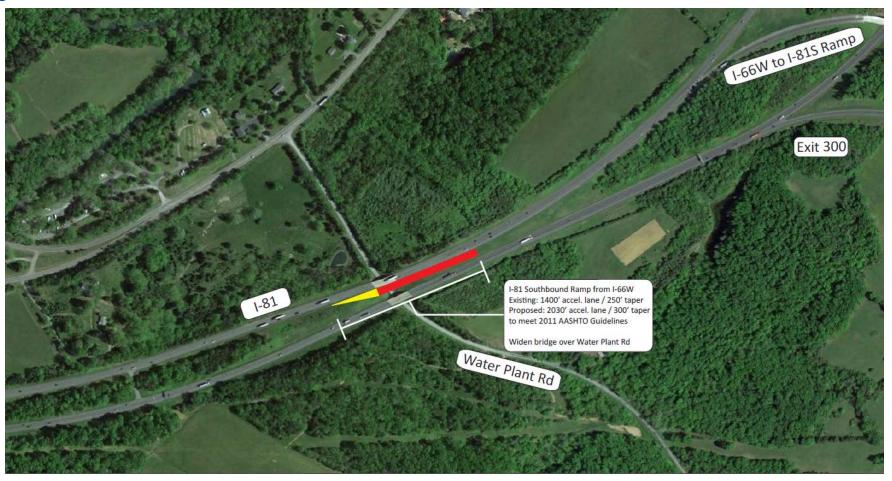
- Submitted by Northern Shenandoah Valley Regional Commission in Round 2 of SMART SCALE
 - Total Original Project Cost: \$3,437,422
 - Total SMART SCALE Request: \$3,437,422
 - Request funded with HPP funds
- Project is VDOT administered
 - Construction scheduled to begin FY22
- Original Scope Included:
 - Extend acceleration lane onto I-81 southbound from westbound I-66
 - Widen the existing southbound bridge over Water Plant Road to accommodate the extended lane

Change in Project Design

What changed after Project Selection?

- Issues were identified related to the bridge widening component of the project
- VDOT Structure and Bridge guidance recommends bridge replacement when one of two conditions prevails:
 - 1. The presence of reactive aggregate that would lead to alkali-silica reaction (ASR), a condition that causes rapid expansion of concrete in the presence of moisture and compromises any bridge component where it is present
 - 2. When rehabilitation of a component or the entire structure exceeds 65% of the replacement cost, replacement of the affected component or the entire bridge is warranted
- In this case, both conditions prevail
- Replacement of the bridge is deemed the most appropriate course of action to accommodate the widening

Project Location





Interstate 81 Exit 300 - Improvement Sketch Warren County, VA September 20, 2016 Not to Scale

Project Budget Increase

- Estimated cost of revised design is \$8.5M
 - Increase of \$5.1M or 148% increase
 - Sufficient deallocated HPP funds are available to cover the increase

	Original Application	Current
Total \$	\$3.4M	\$8.5M
SMART SCALE \$	\$3.4 (HPP)	\$8.5M (increase of \$5.1M)
Score	11.1	4.5
Funding Scenario	9/19	16/19
Expenditures as of 5/28/20	\$225,962	

Recommendation for Action

- Approve Budget Increase Request
 - Fund increase from surplus HPP balances
 - Of available surplus HPP balances, \$4,966,206 was released from projects in Staunton District

HPP Surplus Funds	Amount
Surplus	\$46,452,997
Less Proposed Budget Increase for UPC 111054	\$5,097,874
Total Remaining	\$41,355,123











COMMONWEALTH of VIRGINIA Office of the ______ SECRETARY of TRANSPORTATION

CTB Update

SMART SCALE Round 4 and Performance Based Planning Demo













- Update on current round of SMART SCALE
- Update on Performance Based Planning Pilots
 NOVA
 - Culpeper
 - Salem

SMART SCALE Round 4



- 484 pre-applications submitted
 - Includes 2 placeholder for CTB
 - \$7.5B total project cost

District	Total Cost (millions)	# of pre-apps
Bristol	\$ 156.6	35
Culpeper	\$ 389.8	42
Fredericksburg	\$ 500.5	41
Hampton Roads	\$ 1,311.3	62
Lynchburg	\$ 328.2	33
Northern Virginia	\$ 3,084.4	45
Richmond	\$ 937.6	98
Salem	\$ 571.1	66
Staunton	\$ 227.4	62
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Round 4 Pre-Application Stats Primary Request Type



Principal Improvement Type

- Highway: 365
- Bike/Pedestrian: 96
- Bus Transit: 14
- Rail Transit: 2
- Rail Freight: 1
- TDM: 6

SMART SCALE Round 4



- No significant issues during pre-app period
- Pre-screening is underway
 - Keys Questions Does the project meet:
 - VTrans need,
 - Eligibility requirements, and
 - Readiness requirements
- Final full application opens June 9th with submission deadline of August 3rd

Round 4 Flexibility



- Impact of COVID-19
- Need for flexibility on deadlines related to:
 - Resolutions of support
 - Documentation for leveraged funding



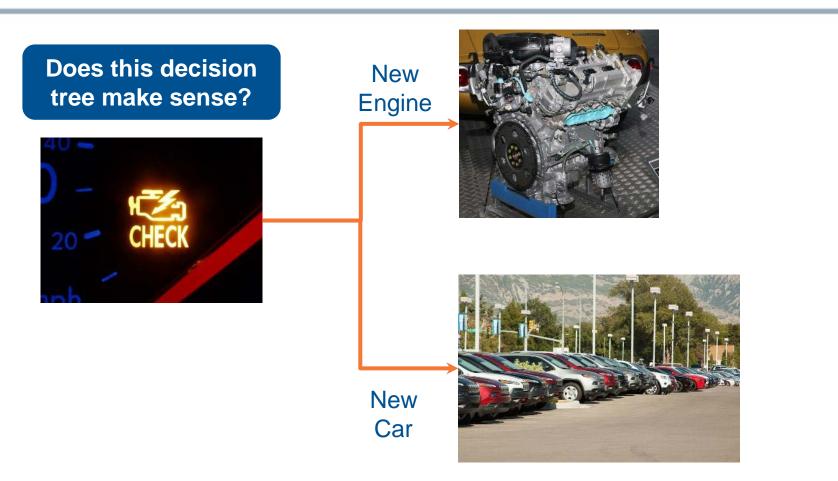
effort here

- Performance based programming
 - SMART SCALE 0 Success here SGR depends on... 0 HSIP
- Performance Based Planning/Project Development
 - Rethinking how to solve transportation problems Ο
 - District/DRPT/OIPI examined projects from Round 3 of SMART Ο SCALE to identify candidates - identified projects in Culpeper, **NOVA and Salem**

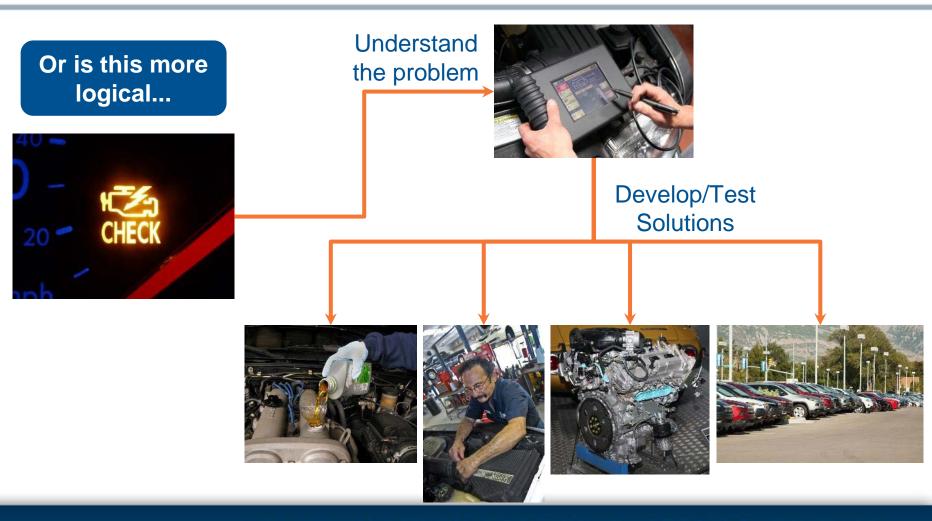
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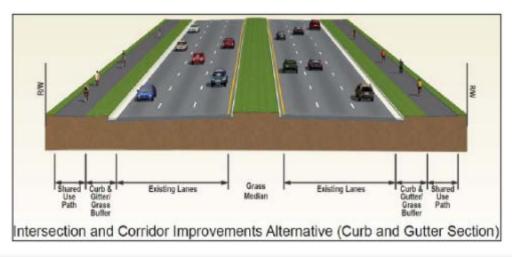


Fairfax County - Braddock Road Phase 1



Fairfax County - Braddock Road Phase 1

- Strong project focused on multi-modal improvements
- Included multiple intersection improvements
- Achieved strong Safety, Accessibility, and Environmental Scores
- Low congestion score
- Round 3 request of \$79.9M



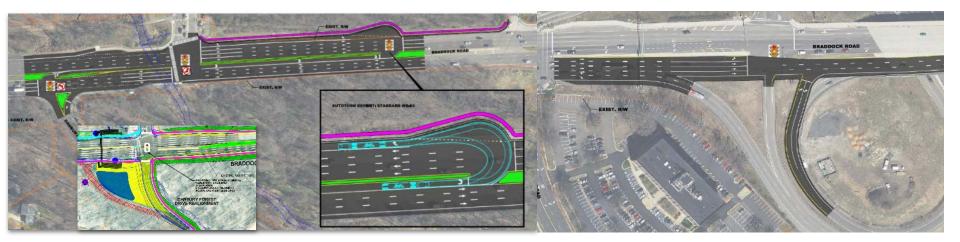


Fairfax County - Braddock Road Phase 1



Fairfax County - Braddock Road Phase 1

- Assessed areas driving higher costs and reduced benefits
- Identified alternatives that met needs through equal or better options with reduced impacts and costs
- Projected to reduce cost by 15-20% and significantly increase congestion mitigation score



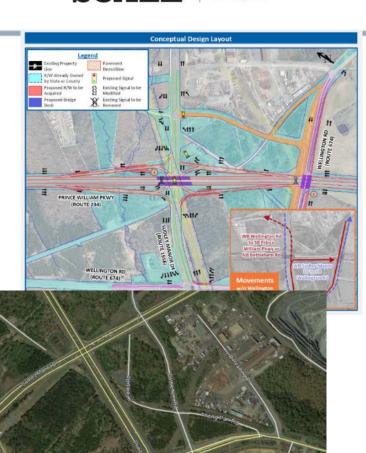
William County - Prince

Performance-Based Planning

Prince William Parkway at Sudley Manor Drive & Wellington Road

Prince William County - Prince William Parkway at Sudley Manor Drive & Wellington Road

- Next intersection downstream from Ball's Ford intersection
- High traffic & congestion area
- Initial Round 3 project included two grade separations with a Single Point Urban Interchange
- Gas line impacts
- Total cost over **\$177M**



Google Earth



Prince William Parkway at Sudley Manor Drive & Wellington Road

Prince William County - Prince William Parkway at Sudley Manor Drive & Wellington Road

- Assessed alternative ways to meet the purpose/need of original project
- Developed alternatives that lower cost while still achieving long term benefit and congestion mitigation
- Projected to reduce cost 30-40% and shorten construction time
- Eliminate two signals on PWP





Loudoun County - US-15 Lucketts Area



Loudoun County - US-15 Lucketts Area

- High priority safety and congestion area
- Context sensitivity to village/local environment with school and historic considerations - RW constraints
- Strong need for improvements safety and congestion
- Current long-term solution is to bypass Lucketts

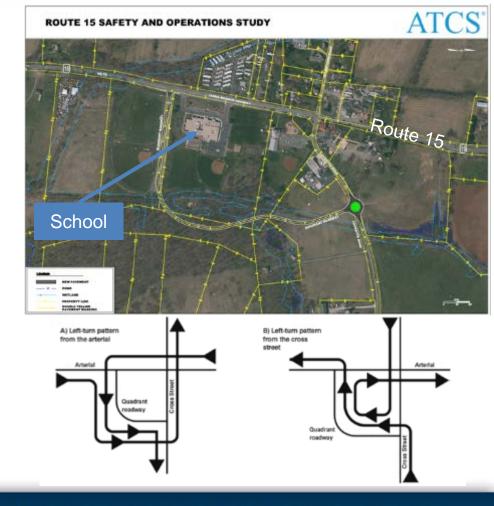


Loudoun County - US-15 Lucketts Area



Loudoun County - US-15 Lucketts Area

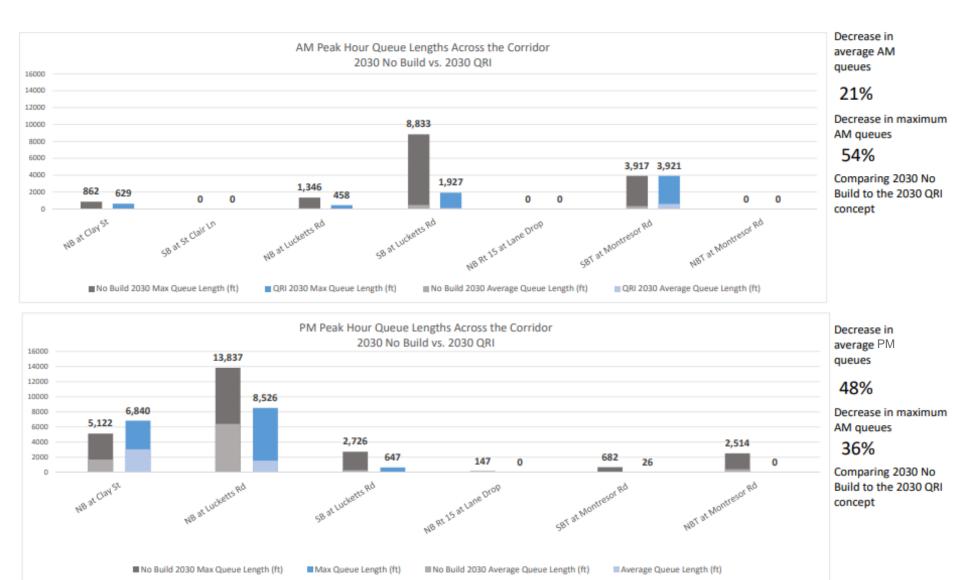
- Working with District and County on options to reduce costs and impacts while addressing congestion/safety
- Quadrant roadway under evaluation
- Reduced signal phases and conflict points
- Opportunity to relocate school access to quadrant roadway



Performance-Based Planning Loudoun County - US-15 Lucketts Area



Funding the Right Transportation Projects



Route 28 - Centreville Road



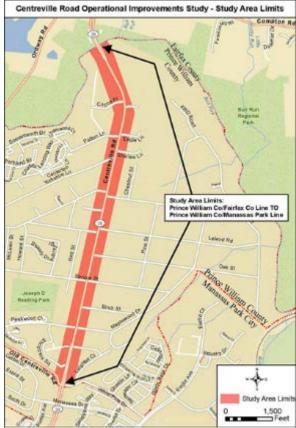
Centreville Road (VA 28) between Prince William / Fairfax County line at

the bridge over Bull Run

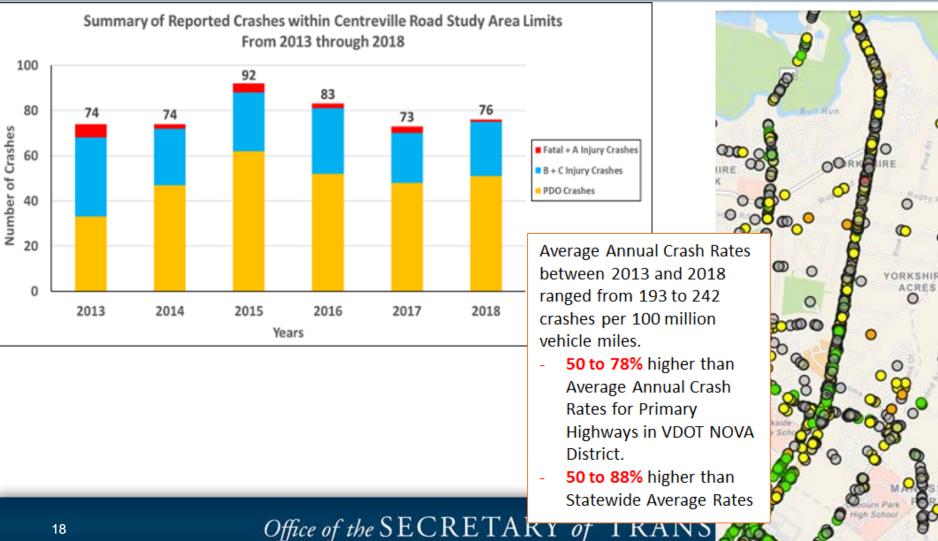
and

Blooms Quarry Lane / Old Centreville Road intersection at the Prince William County / City of Manassas Park line

- High traffic volumes: 2,500-2,700 vehicles per hour in northbound in AM and southbound in the PM
- 100 driveways over 2 miles
- 5 lane cross-section with center two-way left turn only lane

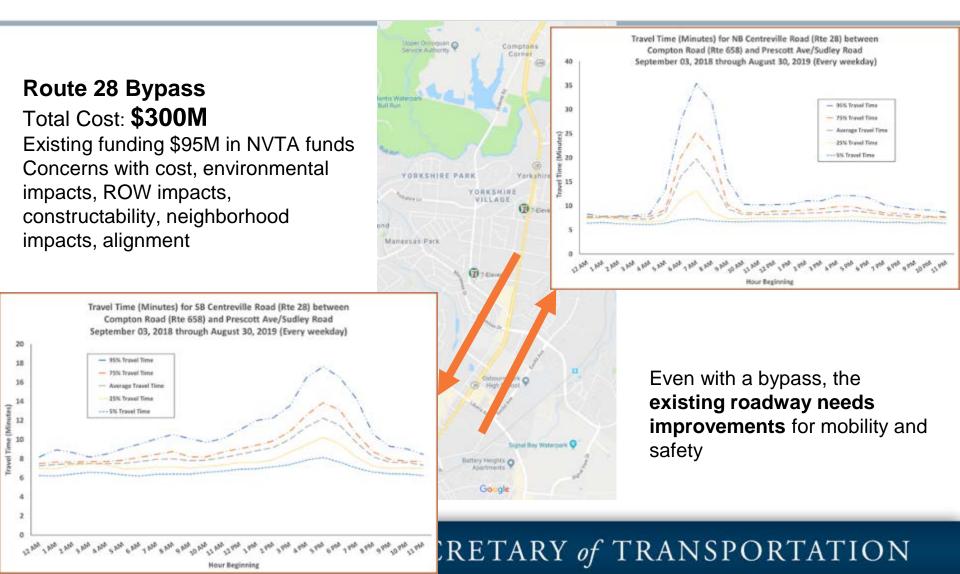




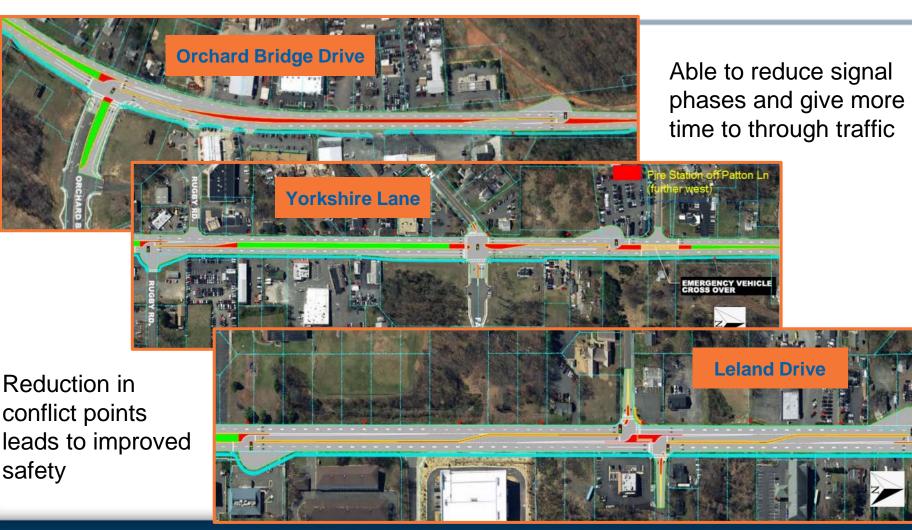


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Significant reduction in delay and increase in throughput

50% reduction in fatal and injury crashes

Current estimate between **\$30-40M**

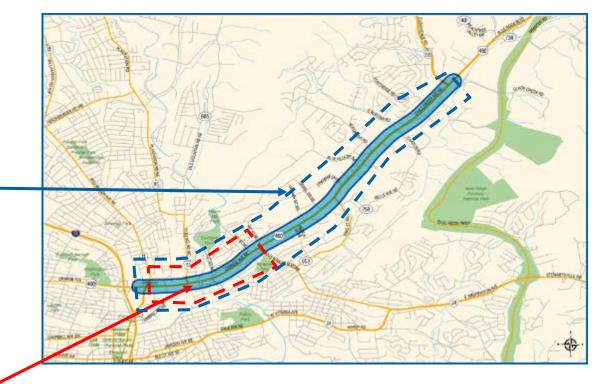


Route 460 - Orange Avenue



Background

- 4.8 mile Arterial Preservation effort led by Salem District
- 36 intersections
 - 12 signals
 - 1 emergency
 - 16 unsignalized
 - _ _ <u>7 crossovers</u>____
- Round 3 project to widen to 6 lanes from Hollins to Gus Nicks
- Round 3 cost **\$77M**



Challenge: Preserve existing capacity and get 6-lanes of performance on existing 4-lane facility



Route 460 - Orange Avenue



50% reduction in delay and improved safety due to signalizing the weave from I-581

Route 460 - Orange Avenue





44% reduction in delay 78% reduction in conflict points

Route 460 - Orange Avenue





37% reduction in delay 52% reduction in intersection conflict points

Performance-Based Planning Route 460 - Orange Avenue





36% reduction in delays; 25% reduction in conflict points



53% reduction in conflict points

Performance-Based Planning Route 460 - Orange Avenue



2040 As Proposed

- 27% reduction in AM peak delay
- 37% reduction in PM peak delay
- 38% reduction in conflict points which will reduce crashes

Current SMART SCALE applications cover 25 study intersections estimates at \$40M



Route 29 / Hydraulic Road



Background

- A **\$200M** package was applied for in SMART SCALE Round 3 to address the Route 29 / Hydraulic Road intersection
 - Route 29 / Hydraulic Partial Grade Separation
 - Zan Road Overpass, Hillsdale Drive Extended, Relocated 250 WB Off Ramp and Overpass from Angus Road to Holiday Drive
- Projects did not score well in Round 3
- VDOT District Planning led an effort to cost solution
- **\$18M** in funds available to leverage to solutions



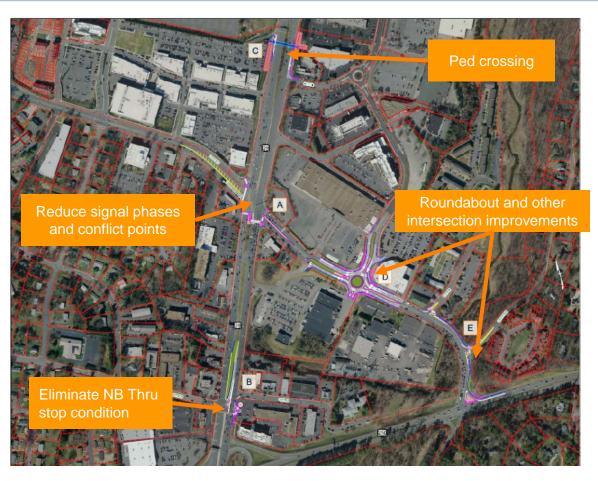
Performance-Based Planning Route 29 / Hydraulic Road



2040 PM peak

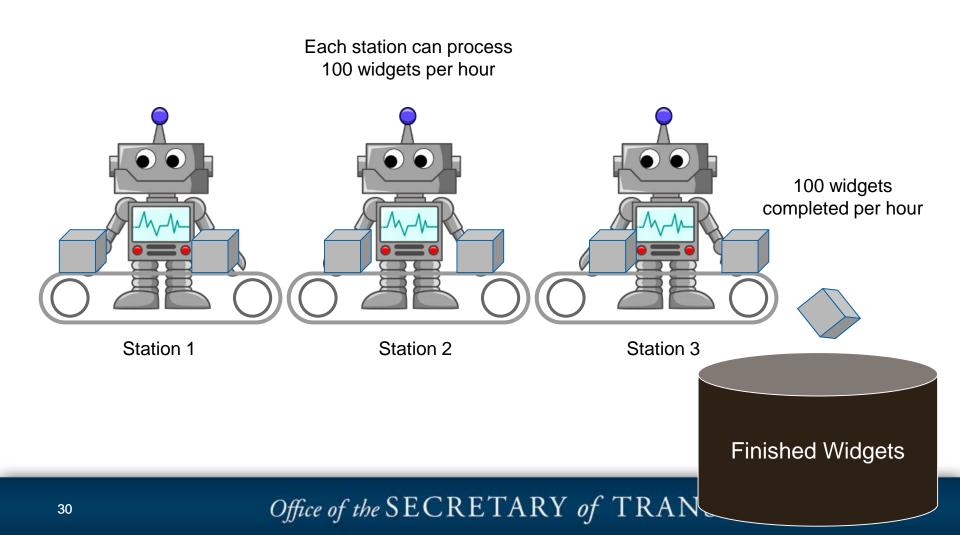
- 15% delay and 40% conflict point reduction at Route 29 / Hydraulic
- 45% delay and 75% conflict point reduction at Route 29 / Angus Road
- 60% delay and 80% conflict point reduction at Hydraulic Road / Hillsdale Road

Revised solution package estimated at \$25M



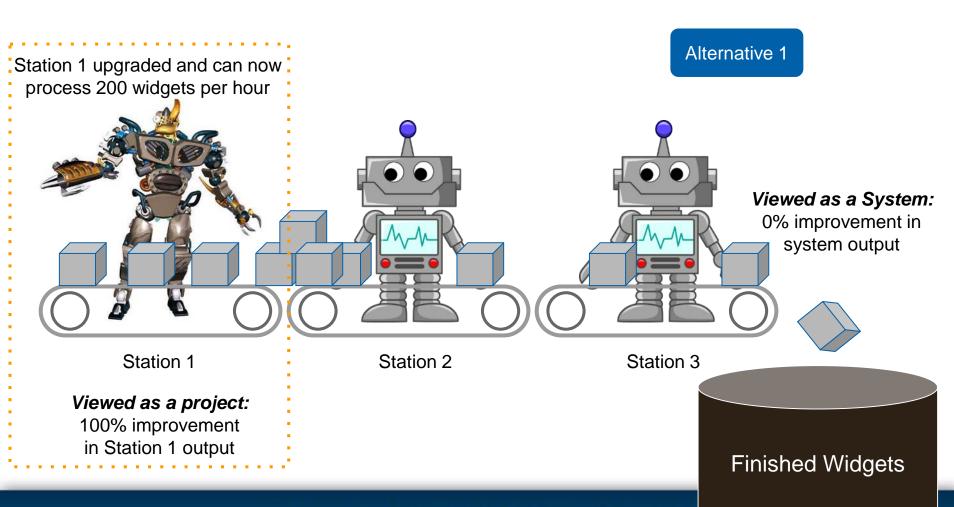
Transportation as a System Assembly Line Illustration





Transportation as a System Assembly Line Illustration

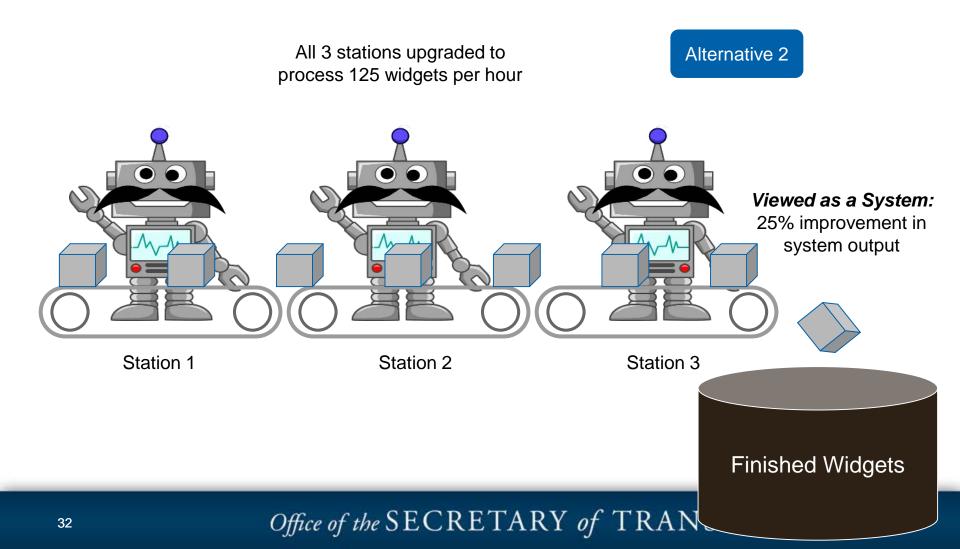




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Transportation as a System Assembly Line Illustration







Questions



MASTER TOLLING AGREEMENT UPDATE HAMPTON ROADS EXPRESS LANE NETWORK

Stephen C. Brich, P.E. – VDOT Commissioner

June 17, 2020

Master Tolling Agreement Development

Through the HRBT Project Administration and Funding Agreement (PAFA) VDOT committed to work collaboratively with HRTPO and HRTAC to:

- Find best operational solutions
- Define appropriate tolling policies
- Investigate financial mechanisms available to CTB and HRTAC

While PAFA required Master Tolling Agreement (MTA) with HRTAC by Oct. 31, 2019

- Operations Study finalized in late fall 2019
- Discussion on entity to issue debt extended
 - HB1438 (2020 GA Session) provides authority to HRTAC to impose and collect tolls



Master Tolling Agreement Update

- CTB authorized the execution of HRBT PAFA between HRTAC and VDOT in March 2019
 - Whereby requiring Master Tolling Agreement (MTA)
- MTA execution prior to HRBT full notice to proceed (NTP) issued per HRTAC request
 - Earliest full NTP mid-July 2020
- VDOT and HRTAC have collaboratively developed draft MTA
 - Majority of broad terms agreed to
 - Continue to collaborate on outstanding items
- MTA requires execution from CTB, VDOT and HRTAC



I-64 Hampton Roads Express Lane (HREL) Network

- Defines the initial HREL
 - I-64 and Jefferson Avenue to I-64/I-264/I-664 Bowers Hill
- Sequencing and implementation
 - Goal is to create a contiguous and continuous network
- Sequencing based on project schedules and operations
- Allows for mutually agreed additions to initial HREL

Procurement and Completion of HREL

- VDOT responsible for design, right-of-way and construction
- HRTAC participates in procurement
- Continued collaboration on traffic and revenue studies
- Funding of HREL
 - HRTAC funding plan
 - VDOT assistance with TIFIA and other financing
- VDOT continue to own the HREL



Tolling Operations and Maintenance

- Operations and maintenance performed initially by VDOT then transitioned to HRTAC
 - Earliest transition High Rise Bridge segment toll day one
 - Latest transition HRBT toll day one
 - HRTAC may enter into mutually agreeable contract with VDOT to provide tolling O&M
- VDOT responsible for roadway operations and maintenance
 - Includes snow, ice and debris



Tolling Policy and Procedure

- Designation of the initial HREL as HOT Lanes
- Agree to have HRTAC exercise its tolling authority for HREL
- HRTAC has right and responsibility to set initial tolling policy
 - Hours of operation
 - Toll points
 - Comply with federal + state laws/regulations
- Allow for safe operations between HOT and adjacent GP lanes
- Prohibit use of toll booths (Electronic tolling only)
- Toll policy modifications to require review by Toll Policy Committee
 - 6 members (3 HRTAC and 3 Secretary of Transportation appointed)
- Toll rate to be set dynamically based on congestion
- Toll enforcement will be the responsibility of the operator
- Criteria established for Commissioner to suspend tolling
- Express agreement to provide free means of travel along corridor

- Toll Revenues and Toll Backed Debt
 - Establishes priority use of debt proceeds and toll revenues
 - HRTAC to regularly submit financial models
 - Parties agree to cooperate to maximize the proceeds from TIFIA
 - Minimum of \$345M debt proceeds applied to HRBT, as stipulated in PAFA
- Naming rights
 - Hampton Roads Express Lanes
- Compensation event
- Dispute resolution process



- Outstanding Issues to be Resolved
 - Toll Policy Committee dispute resolution
 - Compensation Event







HAMPTON ROADS EXPRESS LANE NETWORK UPDATE

Stephen C. Brich, P.E. – VDOT Commissioner

June 17, 2020

Background

- Operational Analysis initiated in December 2018
- Presented Results of Analysis and Proposed Scenarios of the HREL Network
 - HRTPO/HRTAC Joint Session September 2019
 - CTB October 2019



Regional Approvals and Authorizations

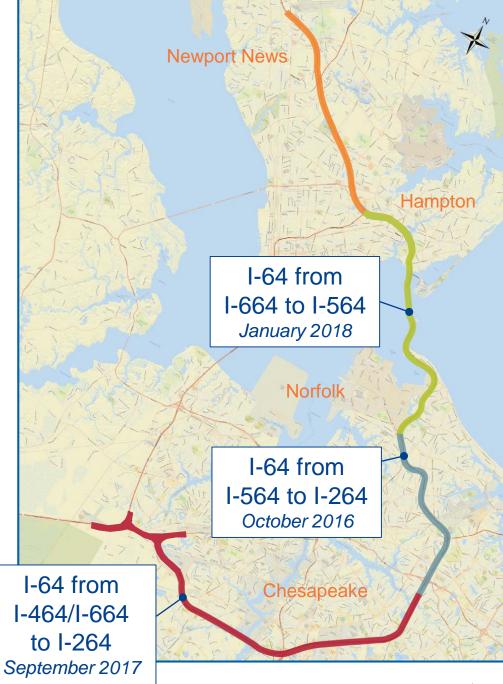
• HRTPO Approved and Adopted on May 21, 2020

•"...hereby identifies and adopts the Regional Express Lanes Network...to collectively provide the greatest impact on reducing congestion for the greatest number of citizens residing in Hampton Roads and requests the HRTAC pursue development of a funding, development and implementation plan for the Express Lanes Network to be advanced by HRTAC based on project readiness."

 HRTAC Special Meeting on May 28, 2020 voted to fund the HREL Network in the FY21-FY26 Plan of Finance – Six Year Operating and Capital Program.

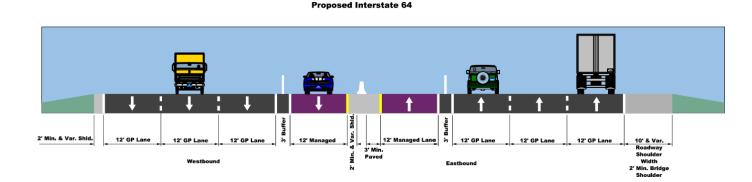
Previous CTB Designation of HOT Lane Segments

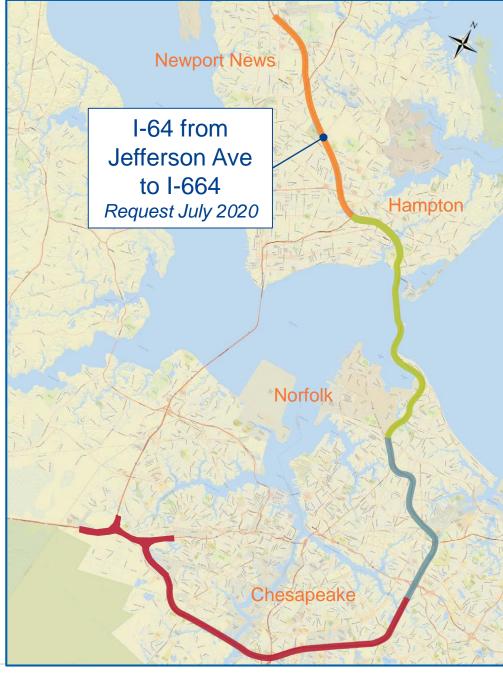
- October 19, 2016 CTB Resolution #2 designated HOT Lanes on Interstate 64 from Interstate 564 to Interstate 264
- September 20, 2017 CTB Resolution #8 designated HOT Lanes on Interstate 64 from I-664/I-264 Interchange to Interstate 264
- January 10, 2018 CTB Resolution #12 designated HOT Lanes on Interstate 64 from Interstate 664 to Interstate 564.



Designation of HOT Lanes on I-64 from Jefferson Ave to I-664 will complete the HREL Network as proposed.

• Existing HOV Lane will be converted to HOT





Next Steps:

- Finalize the Master Tolling Agreement
- Collaborate on Tolling Policy with Region
- Complete Traffic and Revenue Study
- Continue to Advance HREL to Construction