



RICHMOND HIGHWAY
CORRIDOR IMPROVEMENTS
virginiadot.org/richmondhighway

Richmond Highway (U.S. Route 1) Corridor Improvements

Public Information Meeting

Tuesday, April 18, 2017

Mount Vernon High School

8515 Old Mt. Vernon Road, Alexandria, VA 22309

Amanda Baxter, VDOT, Special Projects Development Manager

Mark Gibney, PE, VDOT, Design Project Manager

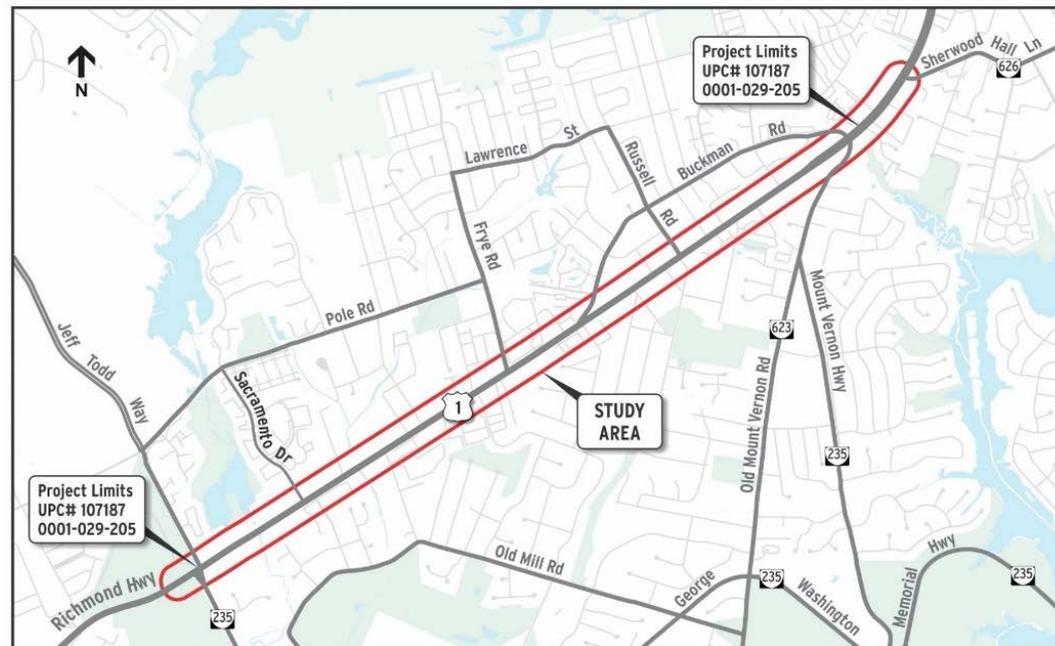
Today's Meeting

- **Introduce the Richmond Highway (US Route 1) Corridor Improvements Project**
- **Traffic Projections**
- **Crash History**
- **Access Management**
- **Superstreet Concept vs Traditional Intersection**
- **Environmental Review Process**
- **Right of Way Process**
- **Project Schedule and Funding**
- **Public Outreach Plan**

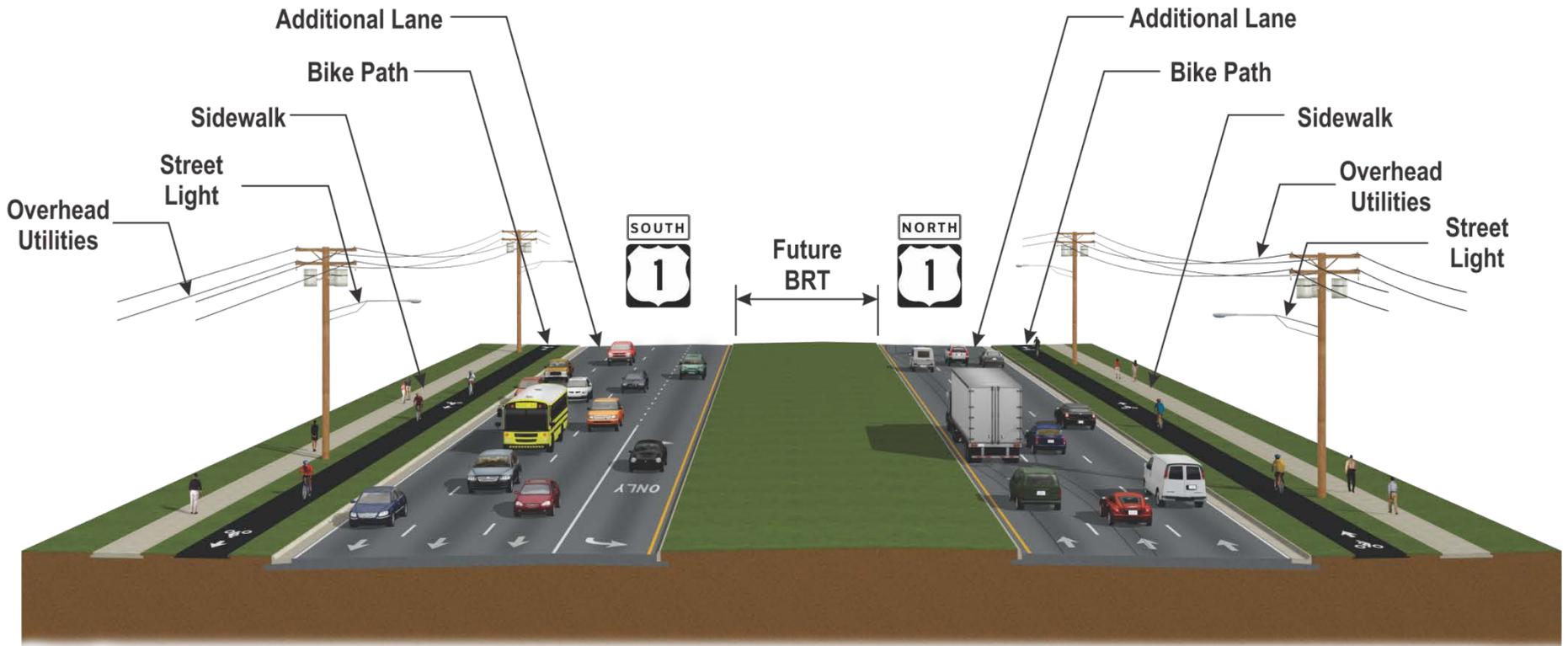


Proposed Improvements

- **Widening of Richmond Highway (US Route 1) from four lanes to six lanes**
 - Jeff Todd Way to Napper Road
 - Approximately 3 miles
- **Safety – access management principles incorporated**
- **Congestion relief**
- **Two options**
 - Conventional intersections
 - Superstreet
- **Median reservation for future Bus Rapid Transit (BRT)**
- **Sidewalks and separate bicycle path on both sides of road**
- **Bridge Replacements**
- **Potential noise walls**
- **Utility relocation**



Typical Section



The intent of this exhibit is to depict the configuration of elements within the proposed right-of-way. For clarity, potential landscaping is not depicted.

Traffic Volume Projections

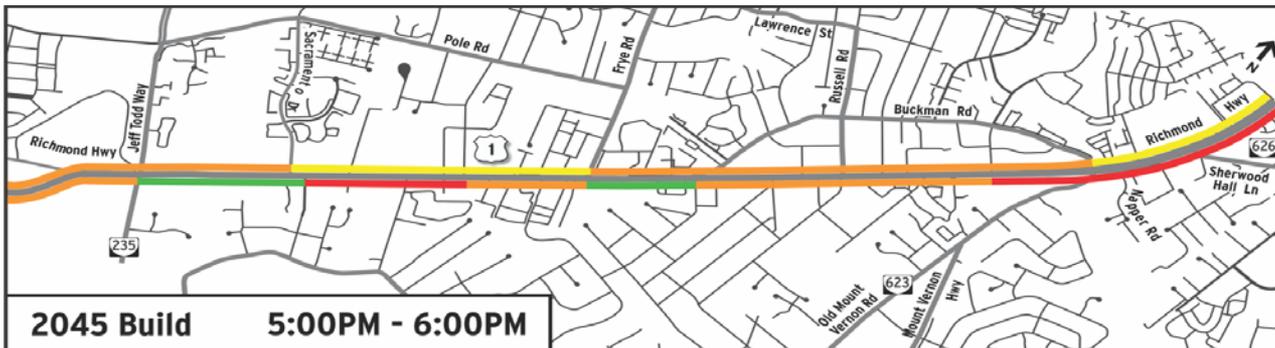
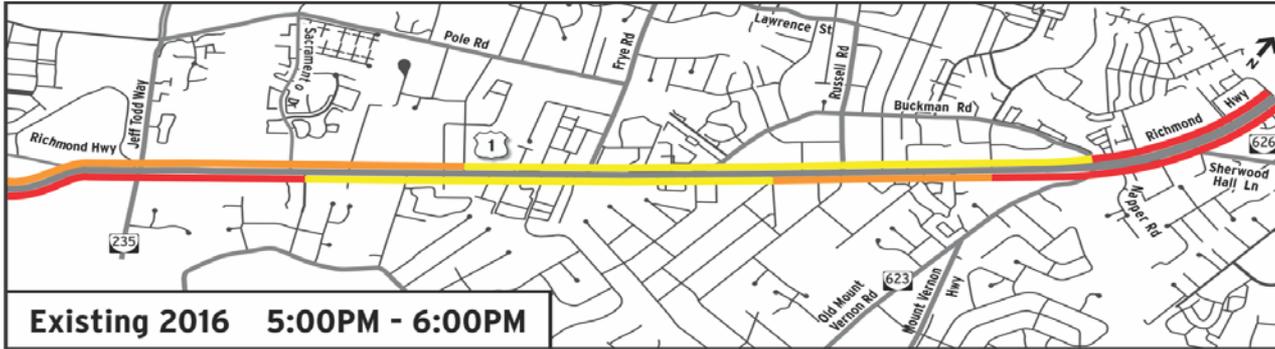
	South of Jeff Todd Way / S Mt Vernon Memorial Hwy		North of Buckman Road / N Mt Vernon Memorial Hwy	
	Annual Average Daily Traffic	% change from 2016	Annual Average Daily Traffic	% change from 2016
2016	34,500		60,550	
2025 No Build	38,050	10.3%	66,800	10.3%
2025 Build	39,000	13.0%	68,325	12.8%
2045 No Build	47,400	37.4%	83,150	37.3%
2045 Build	51,000	47.8%	89,350	47.6%

Future volumes are based on MWCOG model version 8.4, which is based on the current Fairfax County Comprehensive Plan and does not reflect changes resulting from BRT implementation.



RICHMOND HIGHWAY
CORRIDOR IMPROVEMENTS
virginiadot.org/richmondhighway

Travel Time Index



Travel Time Index *

- 0.00 - 1.20
- 1.20 - 1.50
- 1.50 - 2.00
- 2.00+

* The Travel Time Index is the ratio of the peak-period travel time as compared to the free-flow travel time.



2011 – 2016 Crash History

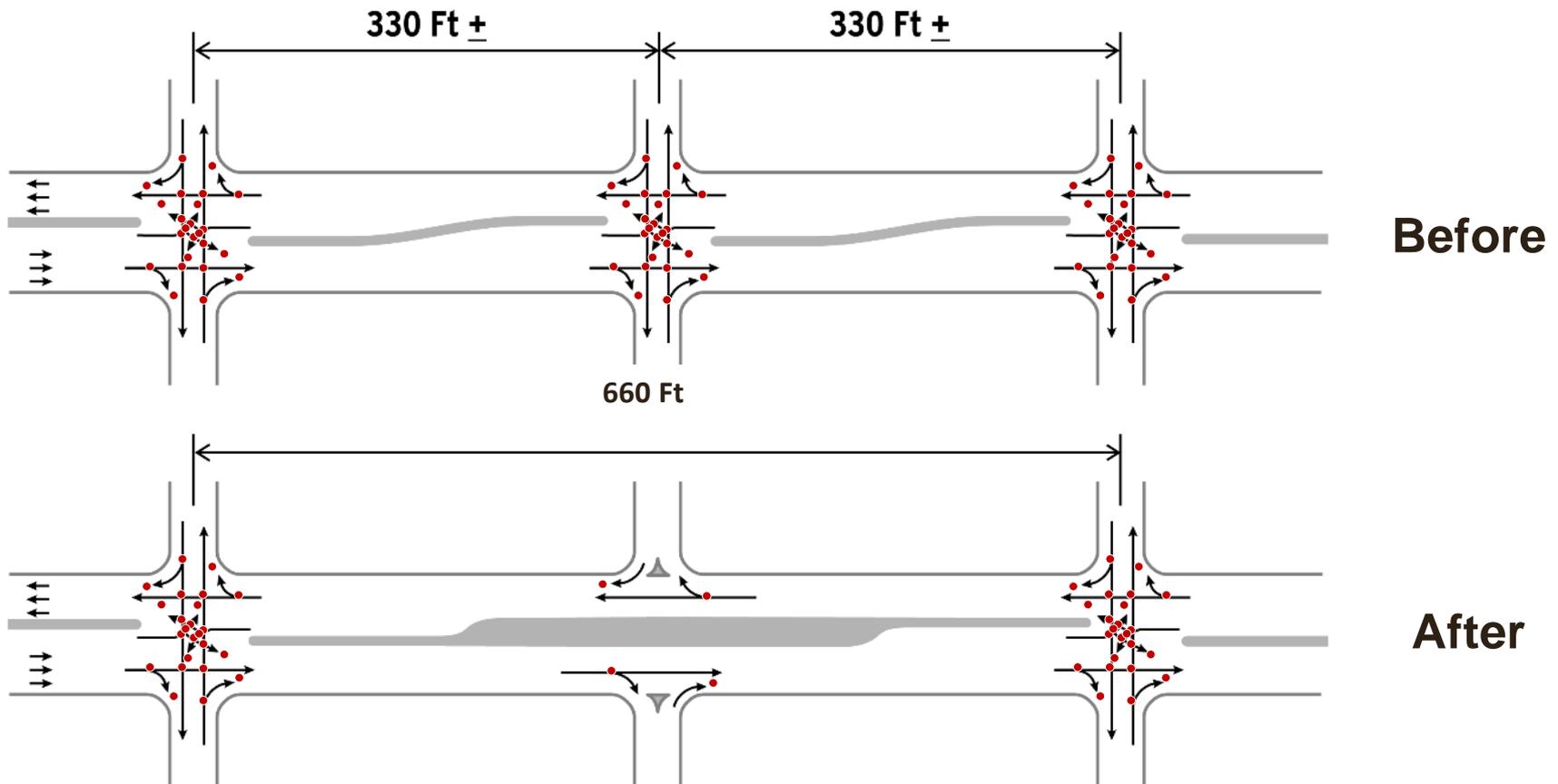
Type of Collision	Collision Count
Rear End	232
Deer	2
Ped	22 *
Other	2
Angle	141
Head On	9
Side Swipe - Same Direction	30
Sideswipe - Opposite Direction	7
Fixed Object in Road	1
Non-Collision	3
Fixed Object - Off Road	12
Grand Total	461

Type of Collision	Collision Count
Injury Crash	222
Pedestrian Injury Crash	26
Property Damage Crash	213
Grand Total	461

* 2 Fatalities



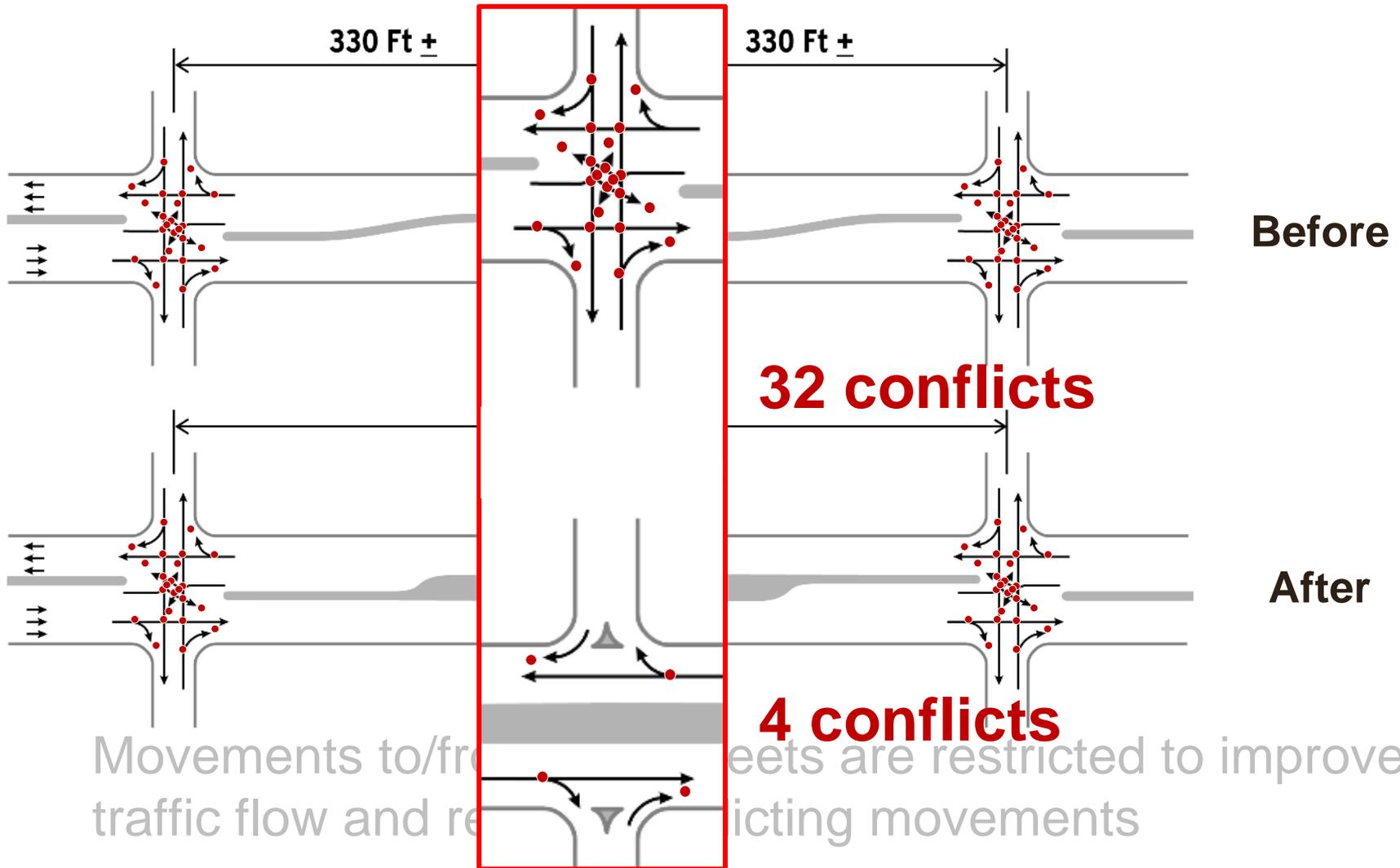
Access Management



Movements to/from side streets are restricted to improve traffic flow and reduce conflicting movements

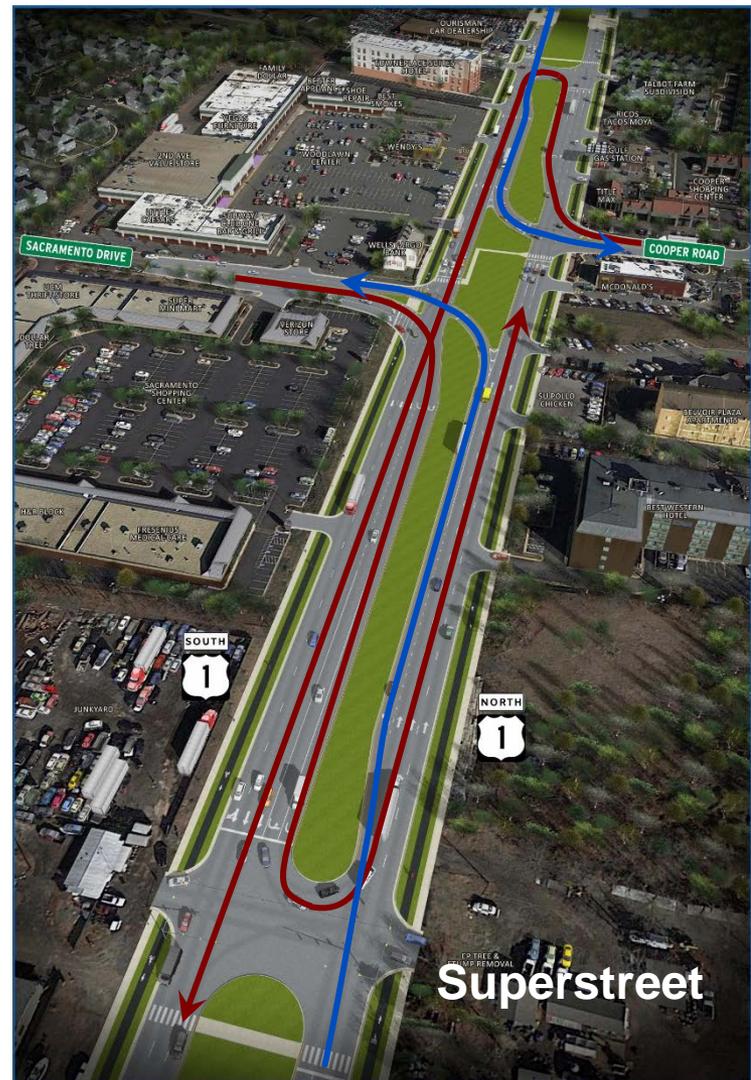
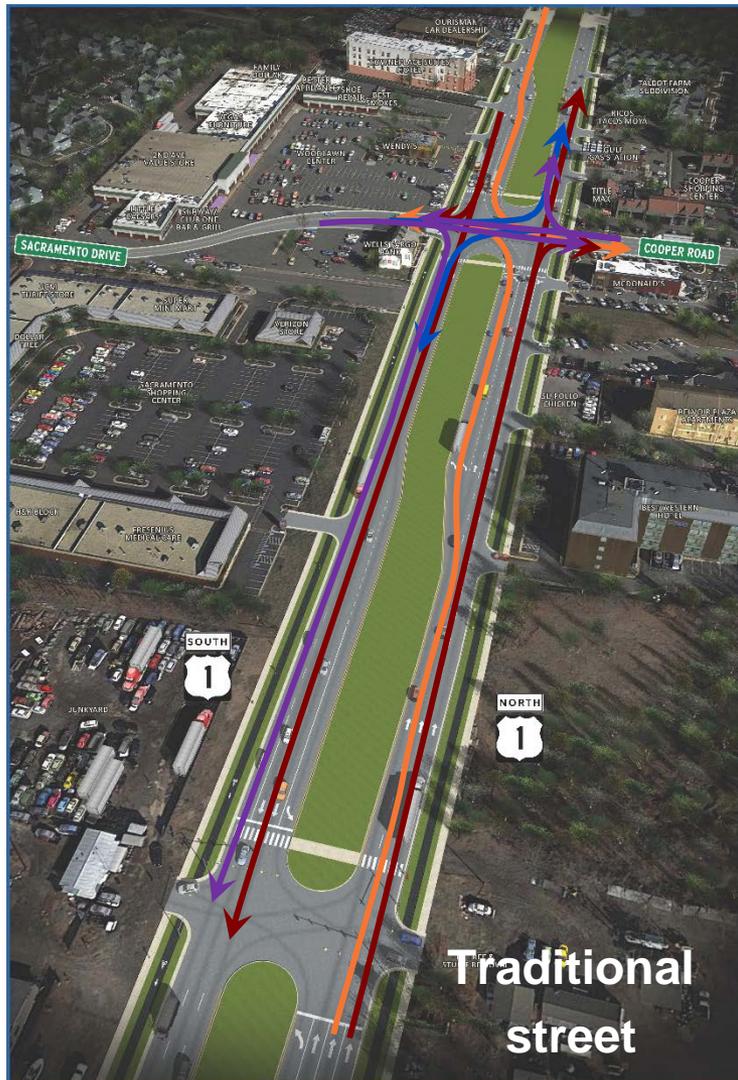


Access Management





Traditional vs Superstreet





Traditional vs Superstreet Concept

Traditional Street

- Consistent with Driver expectations
- Level of Service **F**
- Public acceptance
- Higher Side street delays
- Better Emergency vehicle access

Superstreet

- Simplified Signal Phasing
- May confuse drivers
- Level of Service **C**
- Fewer conflict points
- Crash reduction expected *
- Higher vehicle throughput
- Safer for pedestrians

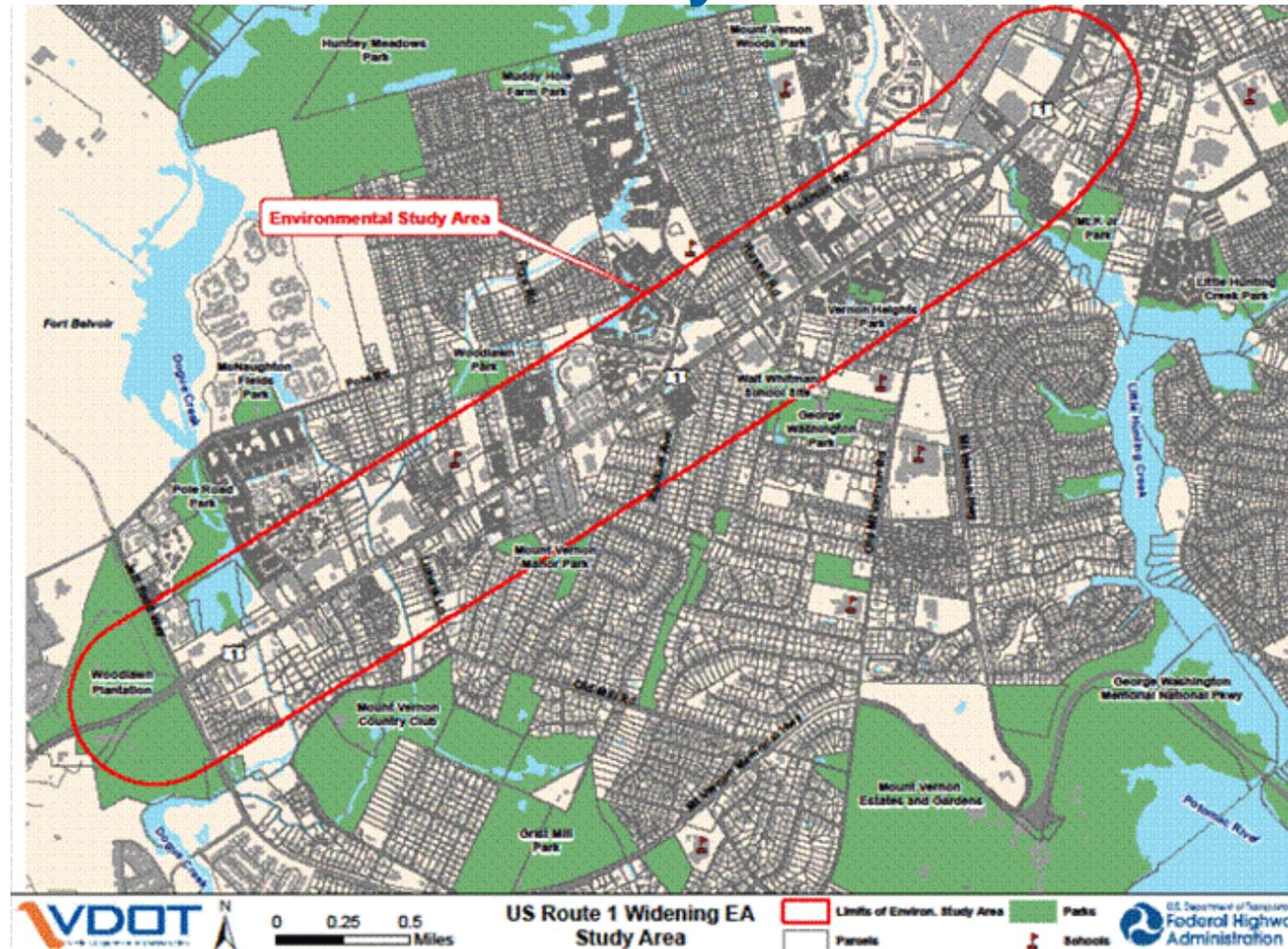
* *Per FHWA Crash Modification factors*



Environmental Assessment Study Area

National Environmental Policy Act (NEPA) Reports & Technical Studies Underway:

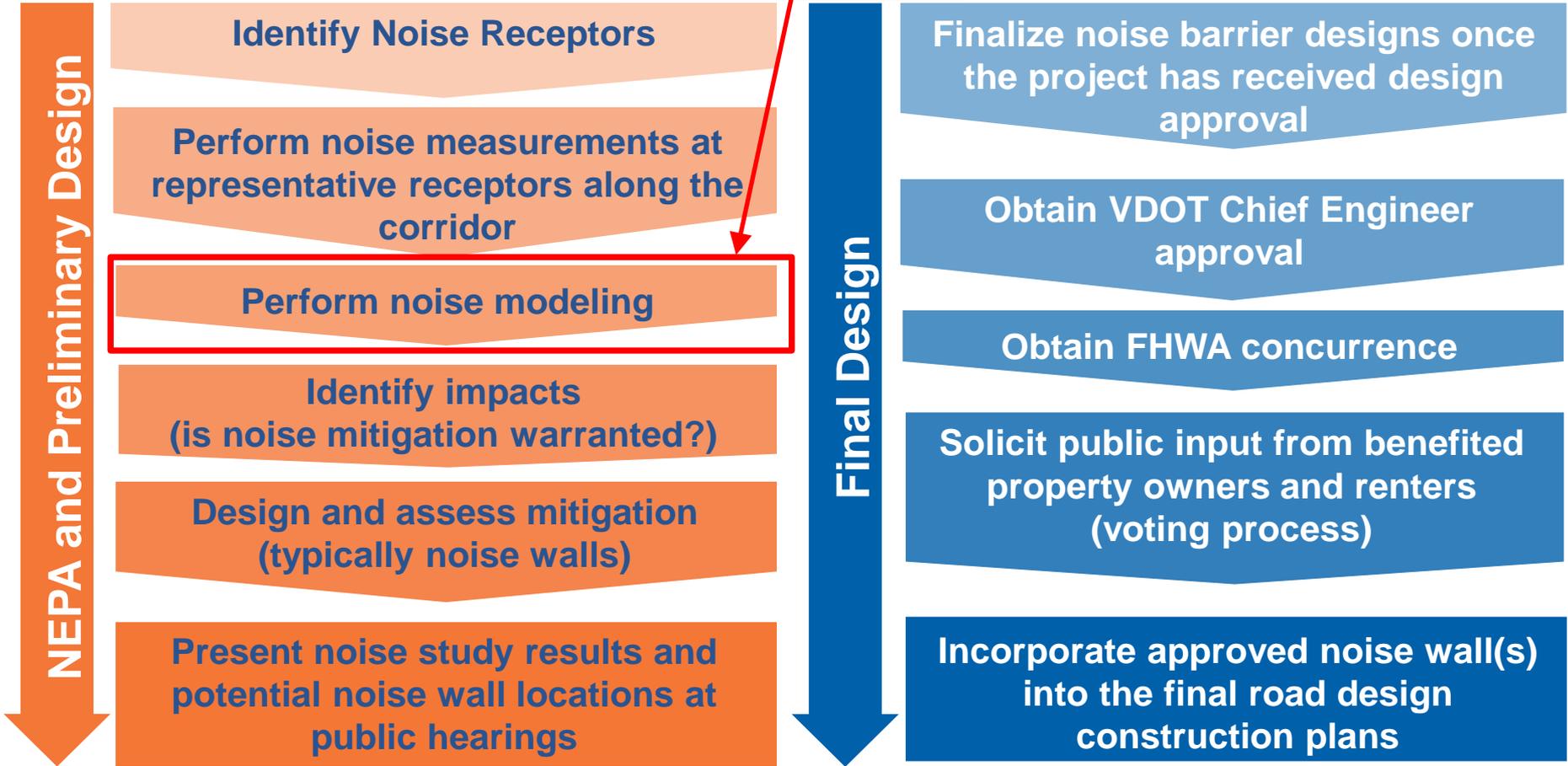
- ⇒ Noise Analysis
- ⇒ Air Quality Analysis
- ⇒ Natural Resources
 - Endangered Species
 - Streams
 - Wetlands
- ⇒ Historic Properties
- ⇒ Hazardous Materials Investigations
- ⇒ Socioeconomic
 - Environmental Justice





Noise Wall Process

We are here



Right of Way Acquisition

- **Each property impact is unique**
- Further design details are needed to determine full right of way impacts
- Right of way acquisition process to begin after detailed design – anticipated in mid-2019
- Right of Way representatives will be at each public meeting



Project Schedule

Activities	Dates
Public Information Meeting #1	April 18, 2017
Release Environmental Assessment	Late 2017
Public Information Meeting #2	Late 2017
Public Hearing	Mid 2018
Federal Highway Administration Finding of No Significant Impact and Design Approval	Late 2018
Final Design	Late 2018
Right of Way Acquisition and Utility Relocations	Mid 2019
Begin Construction	Early 2023
Project Open to Traffic	2026

Phase	Estimated Cost
Preliminary Engineering	\$ 12.5 million
Right of Way	\$ 142.3 million
Construction	\$ 60.0 million
Total	\$ 214.8 million

- Fully Funded
- Partially Funded
- Not Funded

Project Funding

Richmond Highway Corridor Improvements (\$ in Millions)	Need	Available Funding	Request	
Project Estimate	215.0			Current project estimate
Federal RSTP		17.1	16.0*	Allocated by NVTA
Revenue Sharing		6.9	27.8	
Regional NVTA		1.0	146.2	
VA Smart Scale Request			0.0	Requested \$90.0M; not recommended for funding
Total	215.0	25.0	190.0	
Funding Gap			190.0	Funding Gap Identified

Possible ways to address \$190M funding gap:

- Additional revenue sharing requests
- NVTA regional, additional federal RSTP funds, local revenues, and developer contributions

***NVTA has endorsed, CTB approval anticipated in June 2017**

Public Outreach Plan

- **Multiple opportunities for public involvement**
- **Coordination with key stakeholder groups** including:
 - Localities (Fairfax County)
 - Homeowner and Business Owners Associations
 - Fort Belvoir
 - Transit Providers
- **Second Public Information Meeting** late 2017
- **Public Hearing** in 2018 on design concepts
- **Regular email updates to stakeholder database and frequent outreach** before meetings and key project milestones
- Briefings to community groups
- Proactive media outreach
- Coordination with elected officials
- Project website:
<http://www.virginiadot.org/richmondhighway>



How to Provide Comments

- **At Tonight’s Public Information Meeting:**
 - Submit written comments on the comment sheet
 - Provide oral comments during the question and answer session following the formal presentation
- **Mail:**
 - Mail written comments to VDOT, attention Mark Gibney, at: VDOT Northern Virginia District, 4975 Alliance Drive, Fairfax, VA 22030
- **Email:**
 - Email your comments or questions to RichmondHighway@vdot.virginia.gov
- **Online:**
 - Submit your comments via the online comment form, available at www.virginiadot.org/richmondhighway

Please reference “Richmond Highway Corridor Improvements” in subject line of all correspondence



RICHMOND HIGHWAY
CORRIDOR IMPROVEMENTS
virginiadot.org/richmondhighway

Richmond Highway (U.S. Route 1) Corridor Improvements

THANK YOU

<http://www.virginiadot.org/richmondhighway>