

Capital Beltway HOT Lanes Project

I-495/Little River Turnpike Interchange

July 8, 2008



Some things can't wait for traffic.

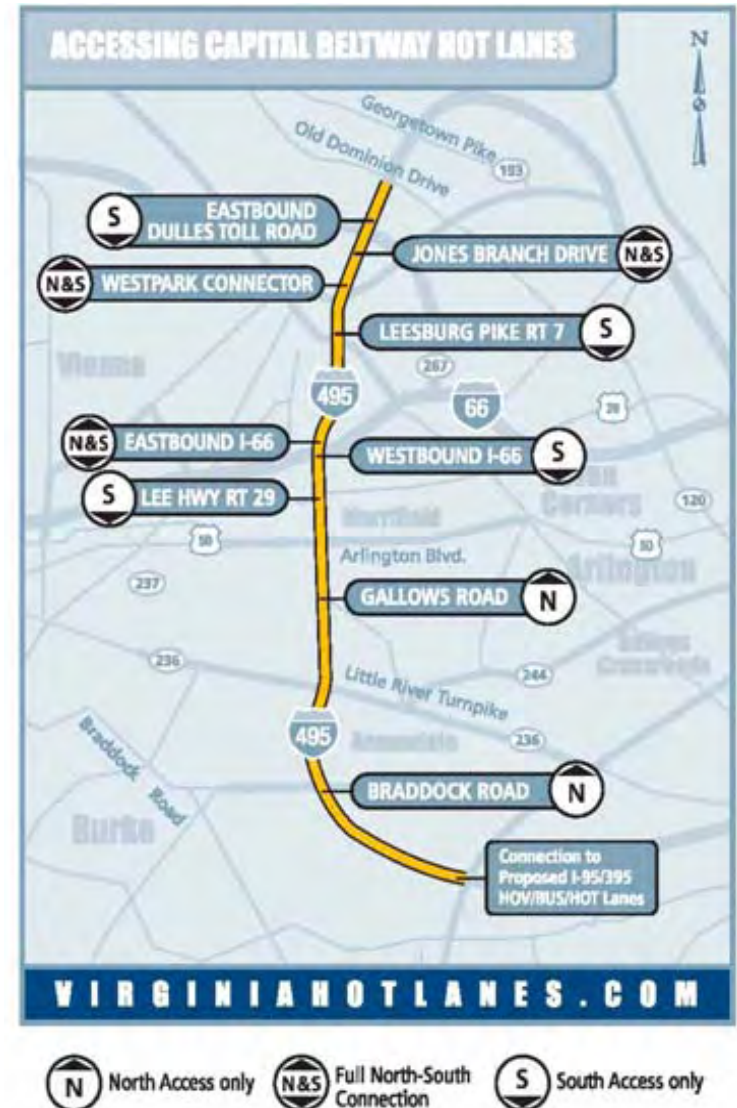
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AGENDA

- Overview of Capital Beltway HOT Lanes
- General Construction Timeline
- Construction Phases – Little River Turnpike
- Regional TMP
- Questions & Answers

Capital Beltway HOT Lanes Overview

- Two **new lanes** in each direction
- First-time introduction of **HOV** to the Beltway and Tysons Corner
- Congestion-free network for **transit** service
- Bike and Pedestrian access
- Replace more than \$260 million of **aging infrastructure**
 - including more than 50 bridges & overpasses



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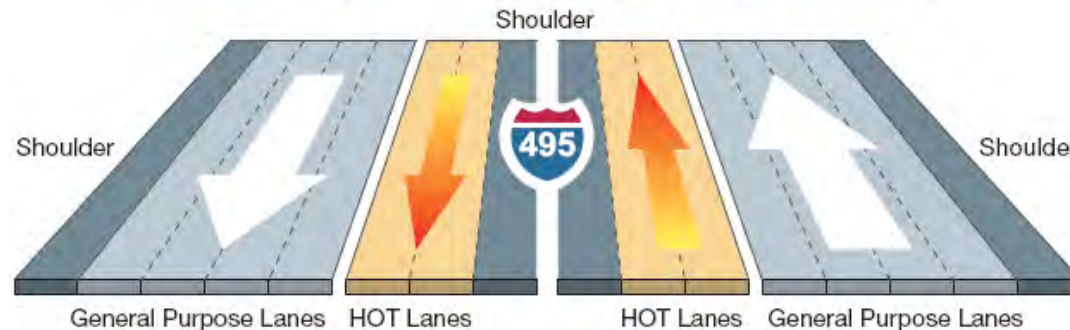
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Capital Beltway HOT Lanes

Overview

- Improved **sound wall protection** for local neighborhoods
- Construction of Springfield Interchange Phase VIII to create a **seamless HOV network**
- Improved connection for **I-66** regular lanes
- Three **new access points** to the Tysons Corner

Lane Configuration: Beltway (I-495) HOT Lanes



Variable pricing: tolls rise and fall based on real-time traffic conditions to manage number of vehicles in the lanes

Not an everyday toll road: motorists choose to pay a toll only when they need a faster, more reliable trip

Fully electronic tolling with E-Z Pass: Electronic signs display rates; no toll booths



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Construction

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General Construction Plan

- Build outer 2 lanes: 2008 – 2011
- Rebuild/lengthen all bridges & overpasses along alignment: 2008 - 2011
- Shift traffic into 2 new outer lanes: 2011
- Construction on inner 2 (HOT) lanes: 2011 - 2012



Projected HOT Lanes Opening - 2013

General HOT Lanes Schedule

- Design/Engineering: 2007 – 2009
- Arterial Study: 2008
- Design Public Hearing: May 2008
- Right of Way Activity: 2008 - 2010
- Construction:
 - Clearing & Grubbing: 2008
 - Utility Relocation: 2008 – 2009
 - Soundwall Relocation/Construction: 2008 – 2011
 - Bridge Construction: 2008 – 2012

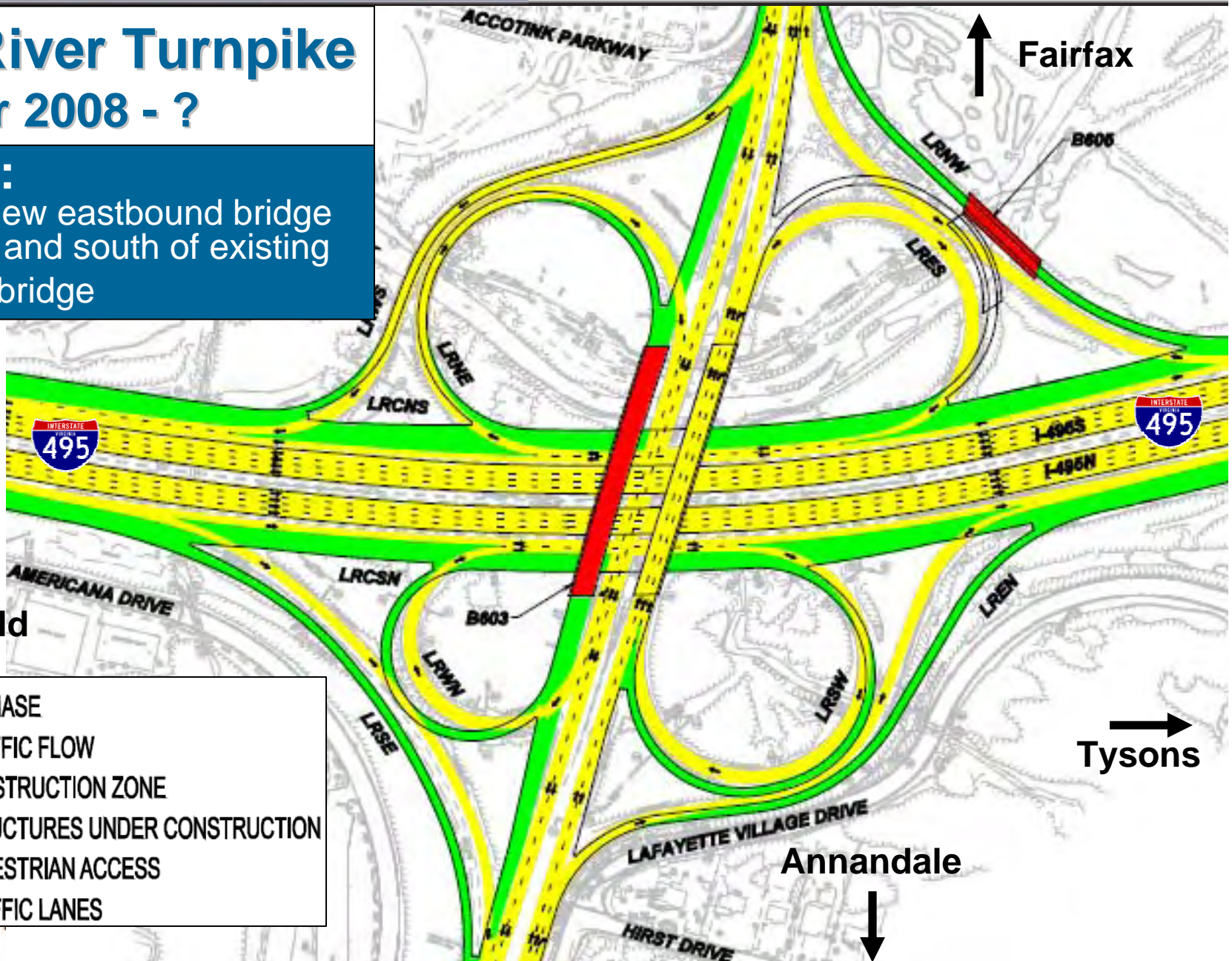


*Little River Turnpike
Interchange Construction*

Little River Turnpike Summer 2008 - ?

Phase 1:

Construct new eastbound bridge adjacent to and south of existing eastbound bridge



LEGEND THIS PHASE

- TRAFFIC FLOW
- CONSTRUCTION ZONE
- STRUCTURES UNDER CONSTRUCTION
- PEDESTRIAN ACCESS
- TRAFFIC LANES

Little River Turnpike Summary

Phase 1:

- Construct the new eastbound bridge

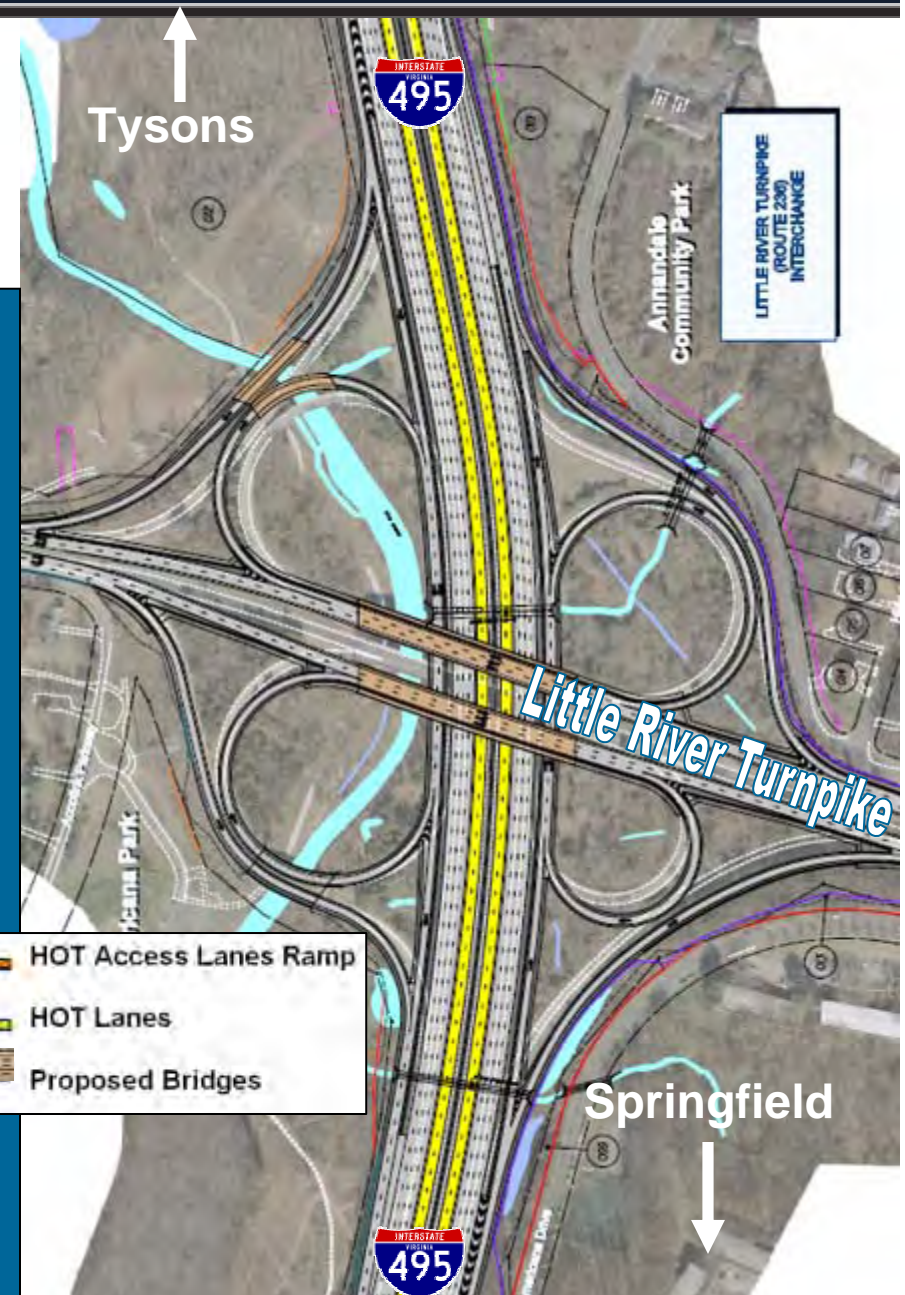
Phase 2:

- Shift LRT east to new bridge
- Shift LRT west on existing east bridge
- Remove existing LRT west bridge
- Build new LRT west bridge

Phase 3:

- Shift LRT west to new west bridge
- Remove existing east bridge

During phases, ramp bridges for I-495 south and LRT west ramp bridge will be removed and replaced.



(MOT) Maintenance of Traffic

- Besides traffic switches, virtually no construction impact on existing traffic at I-495/Little River Turnpike interchange
- No Beltway closures during peak rush hours
- Businesses and residential communities will remain accessible
- Scheduled lane closures will be communicated in advance
- Variable message signs to alert commuters before they travel through construction area



Water Main Relocations

Involves approximately 15,000 feet of 42-inch to 54-inch water main along Capital Beltway from Braddock Road to Route 123 in Tysons

Benefits of Water Main Relocations

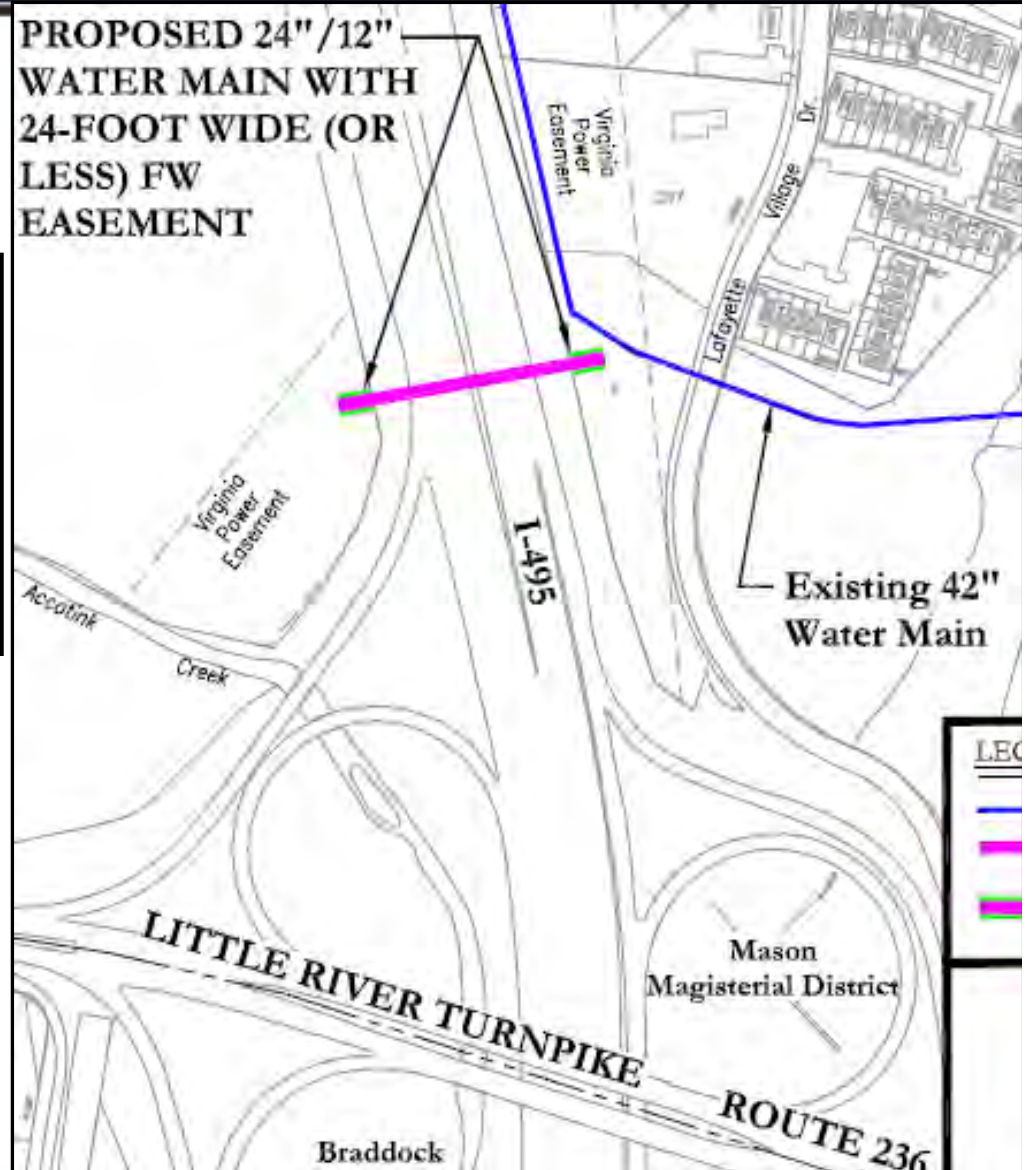
- Larger water main provides greater reliability & flexibility
- Allows increased water flow at same pressure
- Upgrades will alleviate need to install parallel water main at later date
- Fairfax Water will oversee design and pipeline construction
- Impacts will be minimized as much possible on affected properties



Water Main Relocation Near Little River Turnpike

LEGEND

	Magisterial Boundary
	Existing Water Main
	Proposed Water Main within VDOT ROW
	Proposed Water Main within Proposed Easement



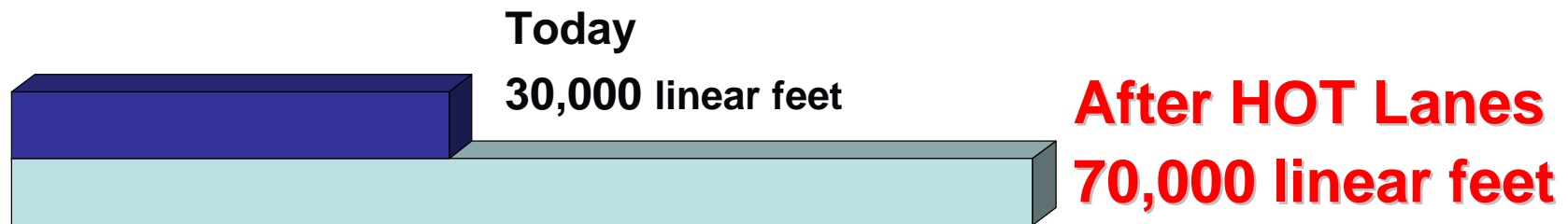
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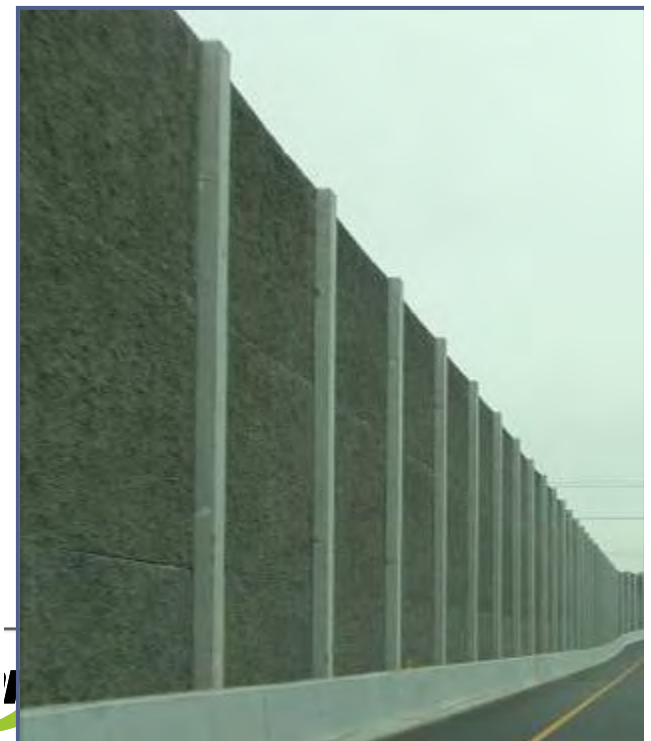
Replacing and Adding Sound Walls

Springfield Interchange – North of Lewinsville Road



How is noise impact determined?

- **Computer modeling**
 - Predict future noise levels
 - Compare with FHWA/VDOT noise criteria
- **Other factors**
 - Road Design, Topography
 - Distance between road and properties
 - Traffic speeds
 - Sounds created by different vehicles



Right-of-Way

Public Comments Drove Change

Original Designs	Today's Designs
300 Homes Impacted	8 Homes impacted
170 Acres Impacted	44 Acres Impacted



VDOT will work with impacted property owners to make transition smooth as possible

- 158 parcels impacted ranging 0.004 to 4.5 acres
- Impacted owners will be contacted individually

Construction Survival Tips for Homeowners *Steps Every Homeowner Association Should Take*

- Designate a Community Transportation Liaison
- Invite construction team to brief your HOA Board
- Distribute construction information to residents
- Attend regular project briefings on construction
- Encourage residents to sign up for email updates
 - virginiadot.org and virginiahotlanes.com



VDOT's Regional TMP Strategies

- Aggressive public outreach program
- Enhanced commuter assistance programs and choices
- Expanded employer service programs
- Commuter information stores
- Additional traffic cameras
- Extensive coordination and cooperation with police, fire and rescue
- Dedicated safety service patrols
- Improved traffic signal timing



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Information Centers – In Person/Online

Providing the VDOT face for citizens

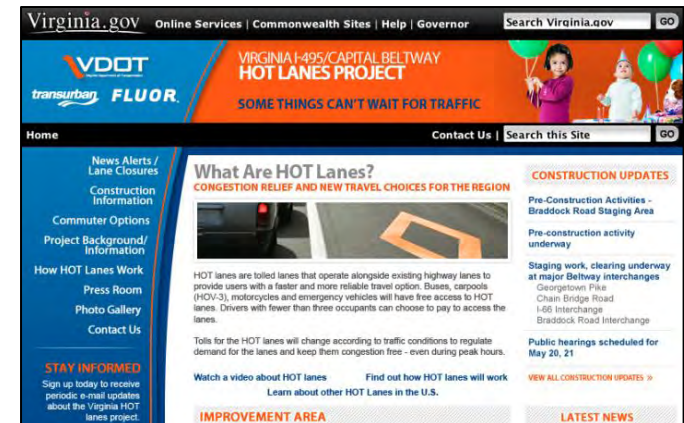
Information Storefronts

- Retail facilities in major shopping malls in Springfield/Tysons
- Distribute materials on construction and alternative modes
- Custom trip planning for transit commuters



Website – www.virginiahotlanes.com

- Construction Timeline
- Individualized Interchange Details/Phasing
- Construction Look Ahead/Sign-up for updates
- Downloadable fact sheets
- Commuter Resources/511 link



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STAY INFORMED

www.virginiadot.org

Provides information on:

lane closures, travel advisories, email alert sign-up, multiple project links



www.virginiahotlanes.com

Provides information on:

project details/benefits, detailed construction info/timeline, sign up for progress updates and look ahead at future work



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