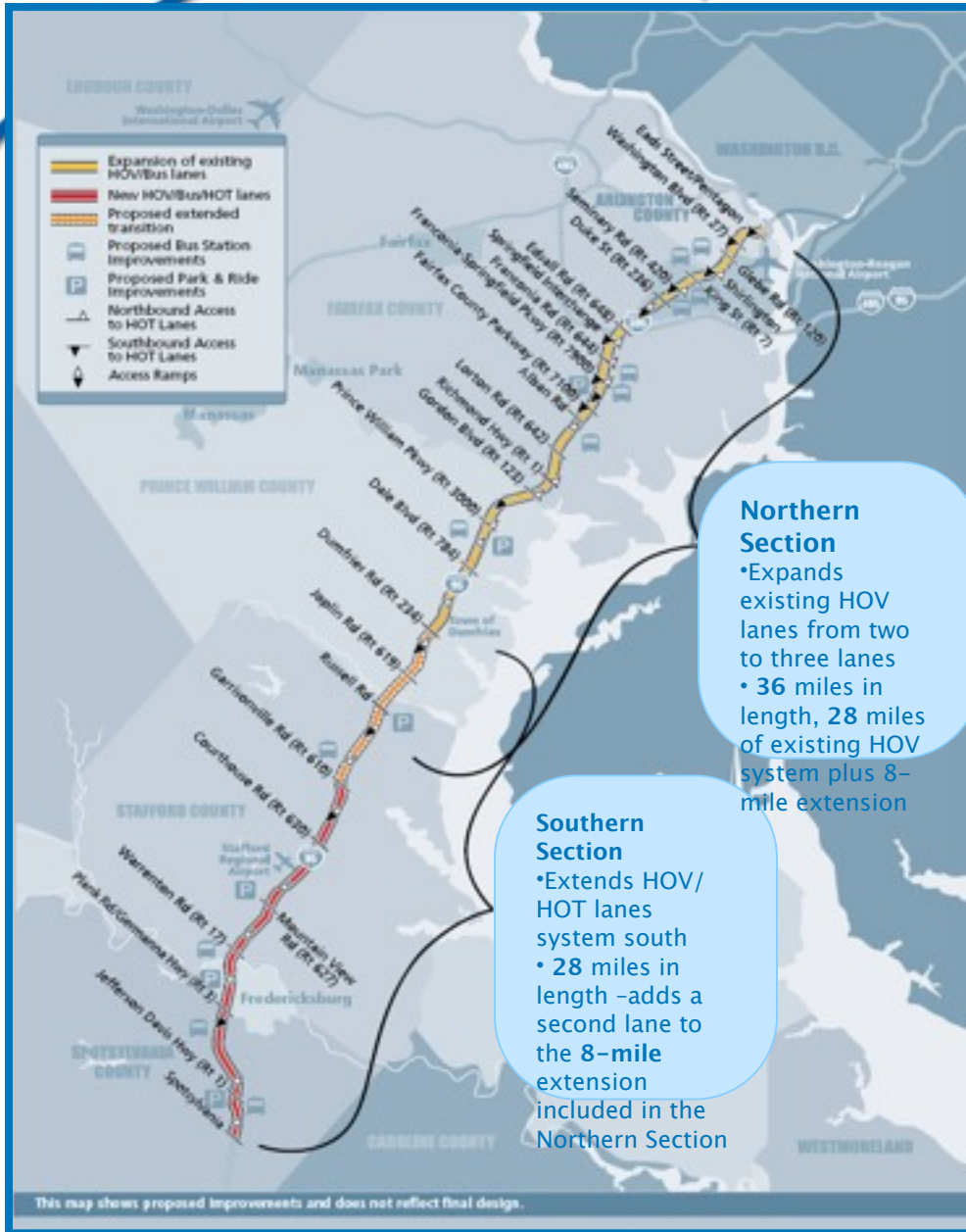




I-95/395 HOT Lanes Project Update

**Fairfax County Board of
Supervisors**

Transportation Subcommittee



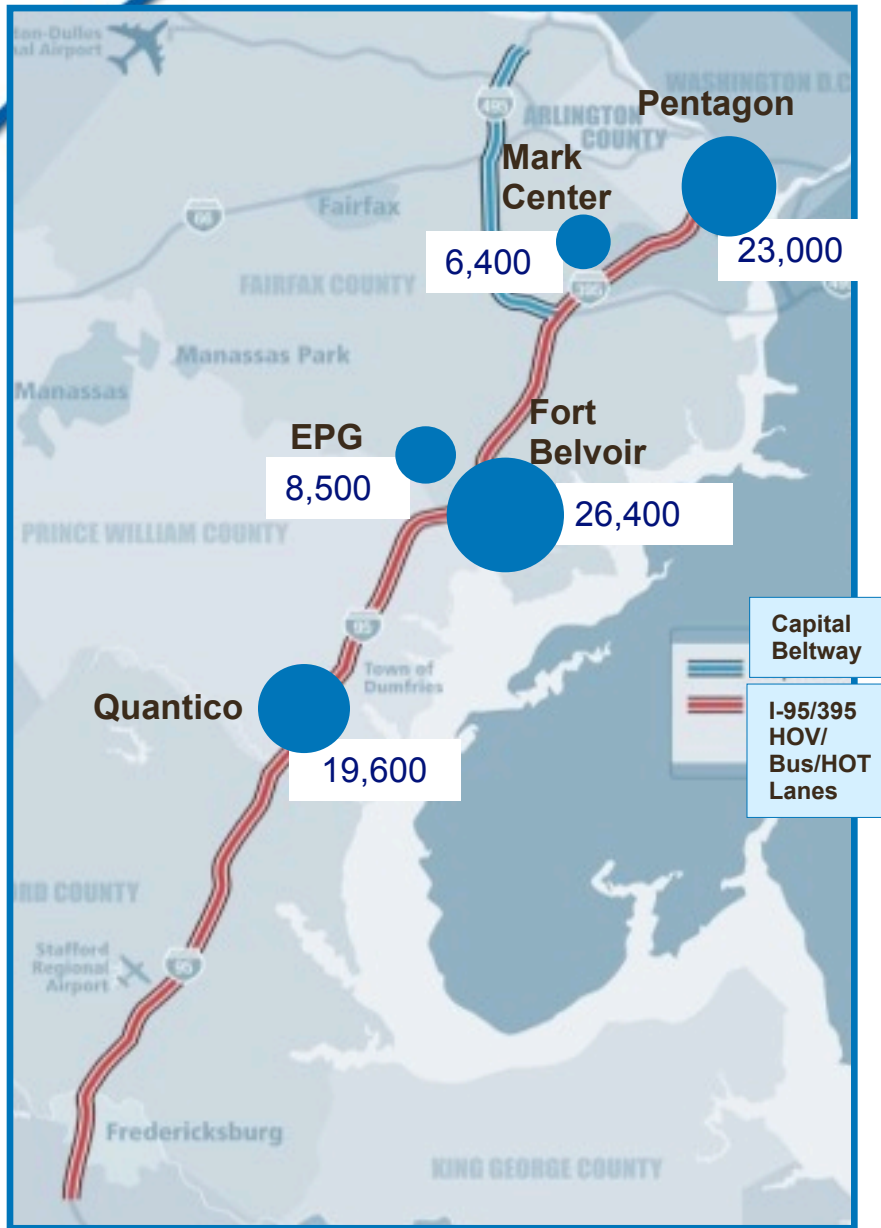
Northern Section

- Expands existing High Occupancy Vehicle (HOV) lanes from 2 to 3 lanes
- Existing HOV system plus 8 mile extension – Eads Street to Garrisonville Road
- Network of HOV/Transit Corridors

Southern Section

- New 2 lane reversible extension
- 28 miles in length – adds a second lane to the 8-mile extension included in the Northern Section
- Extends HOV/HOT system south to Massaponax, Spotsylvania County

I-95/395 HOT Lanes serve current



The I-95/395 is an important and unique corridor because it serves current and future military bases.

It serves five military bases:

- Pentagon
- Mark Center at Seminary Road
- Fort Belvoir
- Engineer Proving Ground
- Quantico

Combined they employ **84,000** people.

Features of the I-95/395 HOT Lanes

Key Features

- Offers new travel options
- Increases transit and HOV options and capacity
 - 3,000 new Park-and-Ride spaces – 3,750 more recommended
 - Potential BRT operations and stations
 - Improvements to VRE and transit stations
 - New transit routes and buses
- New and improved access points
 - 8 new access points
 - 7 improved access points

Features of the I-95/395 HOT Lanes

- Reduces current bottlenecks at both termini
 - Pentagon at Eads Street
 - Dumfries
- No right of way needed – only minor temporary easements
- Actively managed facility via congestion pricing – most efficient way to get the most out of infrastructure
- Advance project quicker through private financing and partnership

Study Background

- Transit/Transportation Demand Management (TDM) Study conducted by DRPT with the Technical Advisory Committee to recommend improvements above and beyond the HOT Lanes scope
- Funding for improvements:
 - **Fluor/Transurban contribution – \$195 million**
- Revenue dedicated to Transit/TDM improvements is subject to final negotiation by VDOT, Fluor/Transurban and allocation by the CTB

Framework for Analysis

- **More than 60 Alternatives suggested by the Technical Advisory Committee and the study team for testing**
- **Alternatives combined into three tiers of investment for evaluation**
- **Methodology for Evaluating Alternatives**
 - Public and Stakeholder Input
 - Market analysis survey (3,300 respondents)
 - Current and forecast travel demand in the study area

Recommendations


- **Service Modifications**
 - Bus frequency increases
 - Bus service extensions
 - Increase VRE train length on three trains to 8 cars, and four trains to six cars.
- **New Services**
- **Facility Improvements**
 - New and Improved Transit Centers
 - Four in-line BRT stations along HOT lane corridor
 - VRE Fredericksburg Line platform extensions – 4 stations
 - Increased overnight parking for VRE trains in Fredericksburg
 - Additional 3,750 park-and-ride spaces

BRT Operational Analysis

BRT Operational Study Scope Includes:

- BRT Station concepts and location studies;
- BRT system regional performance modeling;
- Parking support modeling and studies;
- Fatal flaw analysis for stations and parking facilities;
- Station area plans for five stations on the I-95/395 corridor and for station in Tysons Corner (location to be determined);
- VISSIM simulations for all station areas to determine operations; and

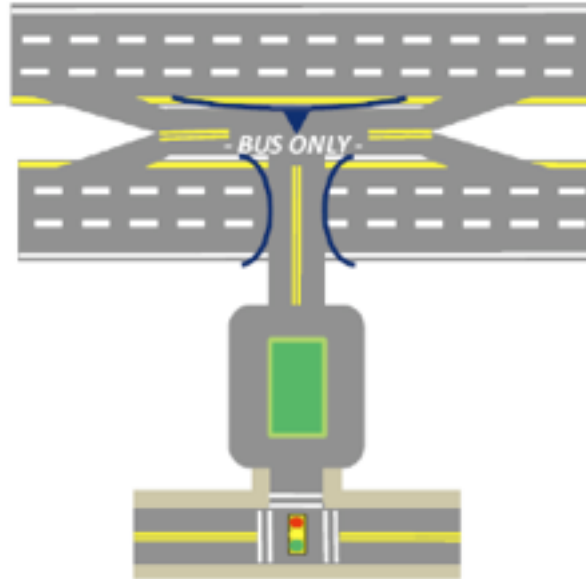
How does BRT fit into the public transportation system in Northern

MODE		Description	Example	
Heavy Rail		High-speed, passenger cars on fixed rails in separate rights-of-way from which all other vehicular and foot traffic are excluded.	Metrorail (WMATA)	
Commuter Rail		Long-haul rail passenger service operating between metropolitan and suburban areas, usually characterized by reduced fares for multiple rides. Typically peak hours and weekday only operations.	Virginia Railway Express MARC (MTA)	
Light Rail/ Streetcar		Lightweight passenger rail cars operating singly (or in short, usually two-car, trains) on fixed rails in right-of-way that is not separated from other traffic for much of the way.	New Carrollton to Silver Spring Purple Line – proposed, Anacostia, H Street Streetcar	
ENVISIONED FIT FOR BRT	Express Bus		Buses operating on a faster schedule by not making as many stops as normal bus services and often taking quicker routes, that other buses usually do not, such as along freeways.	Richmond Highway Express (WMATA) Franconia-Springfield/Pentagon Express –RT 380 (Fairfax Connector)
	Commuter Bus		Motor coach featuring comfortable all seated interior with inter-urban or suburban service to major employment centers. Typically peak hours and weekday only operations.	Loudoun Transit OmniRide (PRTC)
	Local Bus		Bus serving an area confined to a specific locale, such as a downtown area or suburban neighborhood with connections to major activity centers or traffic corridors.	Arlington Transit DASH Fairfax Connector PRTC WMATA Private Shuttles

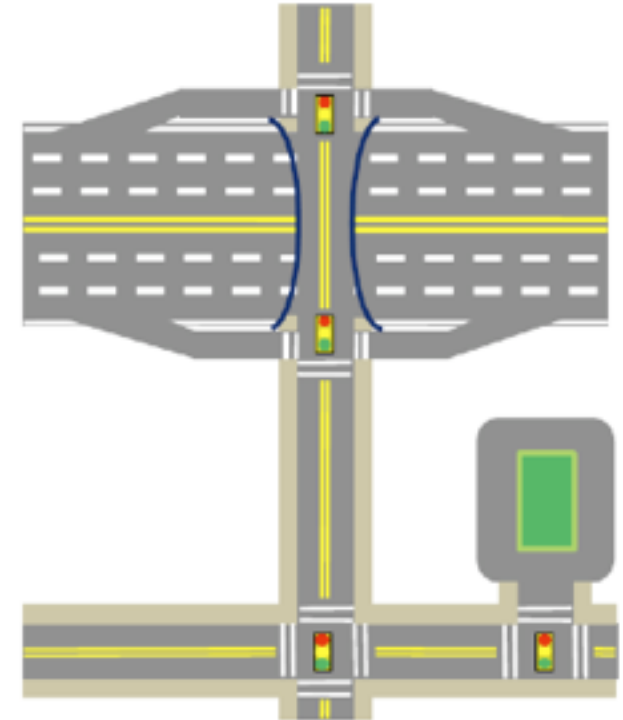
I-95/I-395 Transit/TDM Study

What are the types of stations?

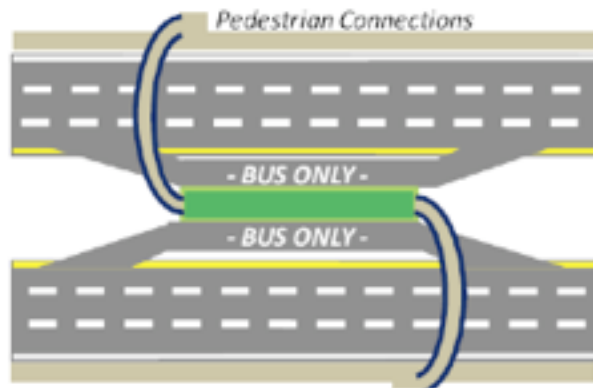
Direct Access




Indirect Access



In-Line (Freeway)



 *Transit Station/Platform*

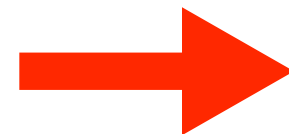
Station Location Studies





AM
PEAK

I-95 Peak Direction



Route **TO**
Station



Route **FROM** Station



Station Facility



New Pedestrian
Connection

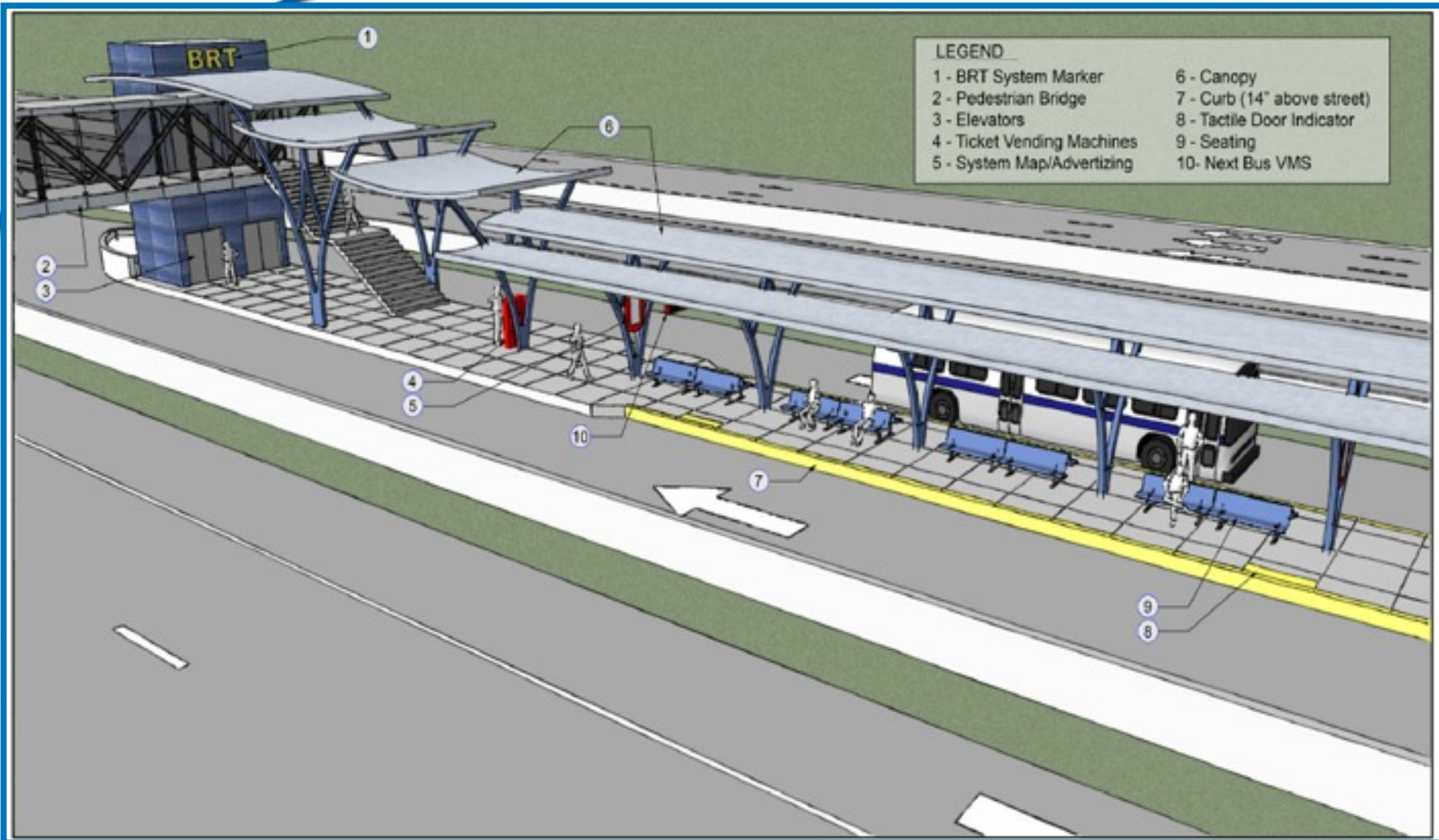
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Preliminary Lorton In-line Bus Transfer Station



Prototypical In-Line Station Features

BRT Lorton Station Concept



BRT Lorton Station Concept

Preliminary Forecast Overview

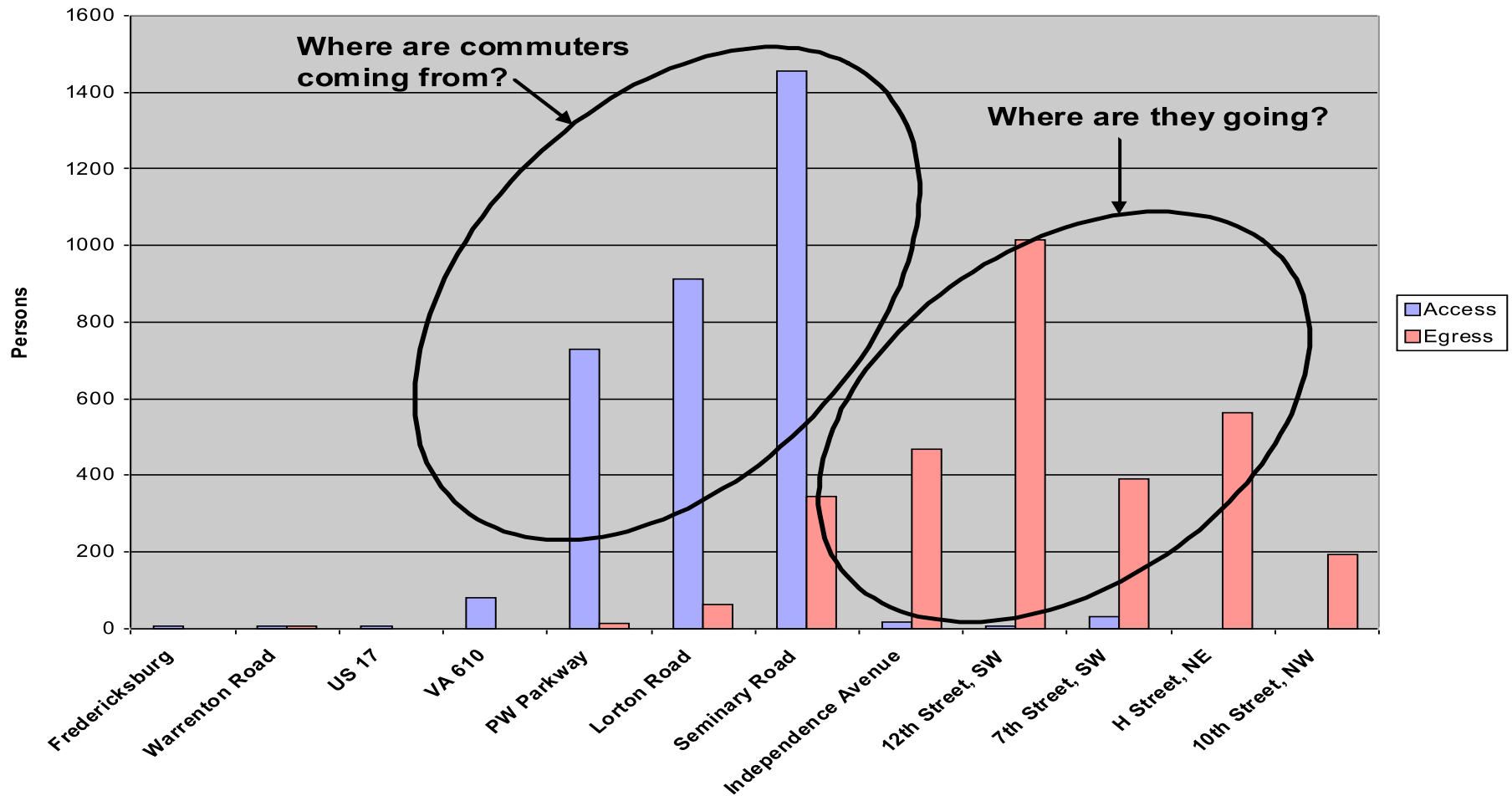
Primary Observations

- More than 12,000 average weekday BRT daily boardings access at least one BRT station in corridor
- Principle BRT commuter peak period market is to/from downtown Washington D.C.
- Approx. 80% of BRT patrons in D.C. commuter market were traveling by automobile
- Lower BRT demand from Massaponax and Fredericksburg station areas – demand being evaluated
- Very little BRT demand for Fort Belvoir or Crystal City service
- Highest demand for access to BRT at Seminary Road and Lorton Road stations
- Highest demand for egress from BRT at 12th Street, SW

Preliminary Forecast Overview

Corridor Station Activity

Summary -



Schedule

- Data Collection – January / February
2009
- Station Area Location Planning – March
2009
- Operational Modeling – April – May
2009

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Capital Beltway HOT Lanes Project

Fairfax County Board of Supervisors



AGENDA

- Project Update
- Construction Activities 2009
- Local Network Operations
- Communications Update



Project Corridor Update

- Clearing will continue at a reduced rate throughout the project corridor, most areas cleared.
- Bridge and retaining wall construction underway.
- Ongoing construction of bridge piers and abutments.
- Bridge girder installation will occur starting in late June 2009.
- Noise barrier post installation started, some panels installed.
- Utility and ground work ongoing throughout the project corridor.

Construction Update

Little River Turnpike

Bridge construction continues off the current alignment, steel girder installation July 2009.

Arlington Boulevard

Bridge construction continues off the current alignment with concrete girder installation to occur in late June/July 2009. 24/7 left lane closures in place.

Interstate 66

Phase One of two bridges on eastbound I-66 underway; steel beam removal completed on two bridges on I-66 east. Bridge construction continues off the current alignment. Steel girder installation at I-66 west over I-495 south to occur to late June/July 2009.

Construction Update

Chain Bridge Road

24/7 left lane closures in place until November 2009 for I-495 south bridge construction. The lanes will reopen for the 2009 holiday shopping season and close again in early 2010 for 18-24 months. Bridge construction will continue along with coordination with the Dulles Metrorail Project.

Dulles Toll Road

Design/Construction continues on work throughout the interchange. Proposed improvements to MWAA ramps (improving existing weave/merge ramp conditions) remain under design/development in coordination with MWAA and the Concessionaire.

Local Network Operations

- 80 traffic counts conducted along the I-495 project corridor
 - 69 tube counts
 - 11 Turning Movement Counts
- Additional counts will be taken this week
- Project team has recounted 10 locations since the traffic shifts occurred and none of the recounted streets have activated the tiered approach.

Communications Update

- Held over 260 outreach meetings with elected officials, communities and businesses.
- Continue one-on-one elected official outreach with the Board of Supervisors and General Assembly Members.
- Continue door-to-door and mailing notifications to impacted communities.
- Continue outreach with updated information on the project web site, monthly project newsletter, weekly emails on construction activities/ lane closures and media advertisements.



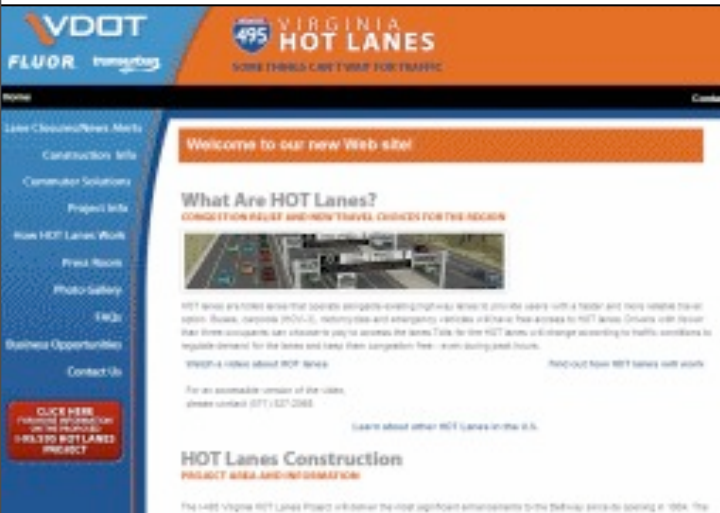
Some things can't wait for traffic

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www.VAmegaprojects.com

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

