

## Regional Bus Priority Projects

*Development of a list of bus-related projects with regional significance.*

### Draft Outline

#### Context:

- Priority projects will include more than just “lines on maps”
  - Focus on regionally significant bus and bus-related projects
  - How is regional significance defined?
- How are bus services and bus projects characterized or visualized?
- Focus on real improvements in regional mobility.
- Time-frame for these projects is short- to medium-range, two to ten years.
- Safety is a priority for the region’s bus systems, and is incorporated in all of the priority projects, including bus stops and customer information.
- Bus transit should be considered early in the life cycle of all transportation and land development projects.
- Recognize that the strength of bus as a mode is its flexibility.

#### Priority Number One -- Funding:

- Sufficient funds to operate current system and maintain current infrastructure
- Per jurisdiction/operator, listing of unmet funding needs for 2010, 2015.

#### Expansion and New Service:

- Select 6 projects that provide new or enhanced transit service.
- Sources for new transit projects:
  - Regional Bus Study recommended services
  - NVTa TransAction 2030 plan
  - TPB Scenario Study (RMAS) and Regional Value Pricing Study
  - CLRP projects not programmed for funding
  - Enhanced transit service on capacity-increasing highway projects

#### Regional Congestion Points:

- Freeway and arterial congestion can reduce bus speeds and reliability.
- Identify top 6 these regional congestion points
  - Operators can suggest these from experience
  - Alternatively, staff can develop list by overlaying maps of arterial and freeway congestion with high-frequency bus routes.
- Roadway expansion and bus priority treatments can be employed to relieve bottlenecks

#### Other Capacity Restrictions:

- Non-financial constraints: even if funding were available, these issues would be hard to solve.
- Include top 6 other capacity restrictions.

- Examples:
  - Finding locations for new bus garages
  - Space for buses at bus stops
  - Capacity at park-and-ride lots
  - Congested off-ramps
- Identify these issues and include in the priority list.

#### Bus Stops:

- Include an update on the status of the regional bus stop inventory
- Include top 6 priority bus stops
  - Seen as “pilot projects”
  - Prevents “analysis paralysis” of attempting to fix all bus stops at once
- Work with AFA and CAC to determine regional priorities

#### Other Customer Facilities:

- The region’s bus systems should recognize and accommodate the needs of all users, providing options.
- Increasing usability for bus transit systems for all users can decrease demand for costly paratransit services.
- Project types include
  - Accessible pathways to bus stops
  - Transit Centers (bus-to-bus and bus-to- rail)

#### Regional Marketing and Customer Information:

- Increase knowledge of existing services.
  - Includes issues informing limited-English populations
  - Route information, schedules, maps, RideGuide
- Broaden RideGuide to include all commuter and local bus services in the TPB region
- Regional transit service maps

#### Buses on Shoulders:

- Provide recommendations for the implementation of a system of bus-only shoulder lanes
- Include experience from the Twin Cities area, as well as pilots in Cincinnati and New Jersey
- TCRP guidance expected soon: TCRP D-13: *A Guide for Implementing Bus-On-Shoulder (BOS) Systems*

## DDOT

PROJECT NAME: Streetcar

Streetcar Project Phases I - V From: Anacostia Area/ H Street Benning Ro To:

DESCRIPTION: Phase I - Design and construction of a streetcar in Firth Sterling and Howard Rd. from the intersection of Firth Sterling and S. Capitol St. to Howard Rd and MLK. Design, build and construct maintenance facility.

Phase II – Track infrastructure in H St and Benning, construct single-track streetcar on S Capitol from Firth Sterling to Malcolm X.

Phase III – Extend streetcar on MLK from Howard Rd. to Good Hope and Minnesota.

Phase IV – Continue streetcar construction from MLK, over the 11th St Bridge along M St to S Capitol Street.

The project also includes the acquisition of existing CSX Shepherd Branch Industrial Spur railroad right-of-way (ROW) to preserve the transportation value of the ROW.

TOTAL COST: \$42,000

(In Thousands)

COMPLETE: 2008

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PROJECT NAME: Downtown Circulator Bus System

From: To:

DESCRIPTION: The Downtown Circulator bus system will provide five high frequency bus routes in Downtown Washington, D. C. to create a single coherent surface transit system connecting the Monumental Core of the Nation's Capital with downtown and with the existing regional transit system.

The Circulator will distribute visitors, residents and workers within Downtown DC, and between Downtown DC and the Monumental Core, and will serve as a supplement to existing transit services that generally move people into and out of the downtown.

TOTAL COST: \$13,000

(In Thousands)

COMPLETE: 2012

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PROJECT NAME: Bus Rapid Transit Expansion

From: To:

DESCRIPTION: Funding will provide for additional studies along four District of Columbia corridors namely: 16th Street, Cross town, Rhode Island Avenue and , Martin Luther King Jr. Blvd.

TOTAL COST: \$600,000

(In Thousands)

COMPLETE:

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PROJECT NAME: 16th Stree Rapid Bus Study

From: Silverspring Metro Station To: Archives Navy Yard Memorial Metro St

DESCRIPTION: Explore opportunities for developing a rapid transit bus system along the 16th Street corridor. The study will also look into developing performance indicators to be used by Mass Transit Administration to measure the effectiveness of the current transit service that is provided within the District.

TOTAL COST: \$150

(In Thousands)

COMPLETE: 2009

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PROJECT NAME: Neighborhood Circulation Study

District-wide From: District-wide To: District-wide

DESCRIPTION: Explore opportunities for developing a District-wide neighborhood circulator system to connect neighborhoods to the larger WMATA system. The study will also look into developing performance indicators to be used by Mass Transit Administration to measure the effectiveness of the current transit service that is provided within the District.

TOTAL COST: \$250

(In Thousands)

COMPLETE: 2010

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PROJECT NAME: Banneker Circle Intermodal Transportation Center

Banneker Circle Intermodal Transpo From: Beneath Banneker Circle, south of SE To:

DESCRIPTION: Develop financing plan, design and construction.

TOTAL COST: \$80,000

(In Thousands)

COMPLETE: 2006

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PROJECT NAME: K Street, NW Priority Busway

K Street, NW

From: 7th Street, NW

To: 23rd Street, NW

DESCRIPTION: A reconstruction project on K Street, NW provides an opportunity to improve transit and general vehicular operations by converting a portion of the roadway from its current cross section consisting of four general automobile lanes, two curb parking lanes, and median-separated local access and service lanes, into four general auto lanes, two curbside parking lanes, and two dedicated transit lanes. The project includes pedestrian, bicycle and signal improvements as well as other Intelligent Transportation System applications.

TOTAL COST: \$0

(In Thousands)

COMPLETE:

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## MDOT/Maryland Transit Administration

PROJECT NAME: Purple Line

From: Bethesda

To: New Carrollton

DESCRIPTION: Preparation of Conceptual Plans, Alternatives Analysis, Draft Environmental Impact Statement (DEIS) and Preliminary Engineering/Final Environmental Impact Assessment (FEIS). The proposed Purple Line will provide high-capacity transit along a 16-mile corridor that extends from Bethesda to the New Carrollton in Prince George's County with connections to the Metrorail Red Line, Green Line and Orange Line as well as all three MAARC lines, AMTRAK and regional and local bus services. The project would include approximately 22 stations. Ridership estimates range from 37,000 to 68,000 daily boardings.

TOTAL COST: \$30,845

(In Thousands)

COMPLETE: 2015

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PROJECT NAME: Corridor Cities Transitway (CCT)

From: Metropolitan Grove

To: COMSAT

DESCRIPTION: This is a joint project with SHA. The Metropolitan Grove to COMSAT transit portion of a multi-modal corridor study to consider transit and highway improvements in the I-270/US 15 corridor in Montgomery and Frederick from Shady Grove Metro Station to I-70. The Metropolitan Grove to COMSAT portion of the Corridor Cities Transitway (CCT) would be either a light rail transit (LRT) or bus rapid transit (BRT) line along a 14-mile corridor from Rockville through Quince Orchard, Gaithersburg, and Germantown to Clarksburg. Another option under study is "premium bus" service along proposed I-270 High Occupancy Vehicle (HOV) managed lanes.

TOTAL COST: \$5,500

(In Thousands)

COMPLETE: 2020

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PROJECT NAME: Corridor Cities Transitway (CCT)

From: Shady Grove

To: Metropolitan Grove

DESCRIPTION: This is a joint project with SHA. The Shady Grove to Metropolitan Grove transit portion of a multi-modal corridor study to consider transit and highway improvements in the I-270/US 15 corridor in Montgomery and Frederick Counties from Shady Grove Metro Station to I-70. The Corridor Cities Transitway (CCT) would be either a light rail transit (LRT) or bus rapid transit (BRT) line along a 14-mile corridor from Rockville through Quince Orchard, Gaithersburg and Germantown to Clarksburg. Another option under study is "premium bus" service along proposed I-270 High Occupancy Vehicle (HOV) managed lanes.

TOTAL COST: \$5,500

(In Thousands)

COMPLETE: 2012

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PROJECT NAME: Takoma/Langley Park Transit Center

From:

To:

DESCRIPTION: Construct transit center in Langley Park at the crossroads area of the MD 193 and MD 650 intersection. This is a joint SHA/MTA project. WMAATA, Ride On, The Bus and University of Maryland shuttles all operate current bus routes through the community. The Crossroads has the largest pedestrian population and bus riders outside of a Metrorail Station. A future station for the Purple Line is also planned for the same site.

TOTAL COST: \$12,310

(In Thousands)

COMPLETE: 2009

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PROJECT NAME: Waldorf Park & Ride

From:

To:

DESCRIPTION: Project planning and environmental documentation for 500 space Park and Ride in Waldorf, Charles County.

TOTAL COST: \$8,100

(In Thousands)

COMPLETE: 2009

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## Montgomery County

PROJECT NAME: NIH Naval Medical Transportation Management Org.

From: Bethesda

To:

DESCRIPTION: This will provide for the creation of a Transportation Management Organization (TMO) for the NIH Naval Medical complex in the Bethesda vicinity of Montgomery County. This TMO will reduce traffic congestion in its vicinity by implementing various trip reduction measures.

TOTAL COST: \$270

(In Thousands)

COMPLETE: 1996

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PROJECT NAME: Randolph Road Bus Enhancement

Randolph Road Bus Enhancement From: MD 355

To: US 29

DESCRIPTION: This project focuses on the intersections with Kemp Mill Road, Veirs Mill Road, Georgia Avenue, and New Hampshire Avenue.

TOTAL COST: \$5,000

(In Thousands)

COMPLETE: 2010

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PROJECT NAME: Clarksburg Transit Center

From: Clarksburg

To:

DESCRIPTION: This project will help to define a transit hub in the Clarksburg Area. This transit center will provide a transit station for the Corridor Cities Transitway; prior to that it will serve as a bus staging area. The scope of work for this project includes site selection and concept development.

TOTAL COST: \$600

(In Thousands)

COMPLETE: 2020

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PROJECT NAME: Four Corners Transit Center

From: US/MD 29/193

To:

DESCRIPTION: This project will construct a Bus Transfer Facility for the transfer of passengers between MD 193 and US 29 Transitway service, and future I-495 bus service. It will provide for the transfer of passengers among three major transit corridors: US 29, MD 193, and I-495. US 29 is currently being studied for a transitway. This project will establish a transit facility for the proposed US 29 Transitway. MD 193 is the principal transit corridor connecting the University of Maryland, residential areas in eastern Montgomery County and western Prince George's County with Rockville and I-270 employment areas. An I-495 transit link would connect with several Metro lines.

TOTAL COST: \$2,565

(In Thousands)

COMPLETE: 2015

PROJECT NAME: Metropolitan Grove Transit Center

From: Vicinity of Watkins Mill Road and MD To:

DESCRIPTION: Project to construct a Transit Center at Metropolitan Grove in the vicinity of Watkins Mill Road. This center would serve MARC and eventually the Shady Grove/Clarksburg Transitway. This is envisioned as the terminus of the first leg of the CCT (Corridor Cities Transit Way) from Shady Grove Metro.

TOTAL COST: \$12,000

(In Thousands)

COMPLETE: 2015

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PROJECT NAME: Norbeck Road Park and Ride

Norbeck Road Park and Ride From: Norbeck Road at Georgia Avenue To:

DESCRIPTION: This project provides funds for the revitalization of the existing Park-and-Ride Lot at Norbeck Road and Georgia Avenue. This park-and-ride lot project would accommodate access via the Georgia Avenue Transitway.

TOTAL COST: \$200

(In Thousands)

COMPLETE: 2015

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PROJECT NAME: Olney Transit Center

From: MD 108 adjacent to or north of MD 108 To:

DESCRIPTION: This project includes site selection and acquisition, and subsequent construction of a 150 space park-and-ride facility in the Olney Town Center which will be the terminus of the proposed Georgia Avenue Transitway. Project will include a waiting facility, bus access, and bus transfer capabilities.

TOTAL COST: \$1,000

(In Thousands)

COMPLETE: 2015

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PROJECT NAME: Silver Spring Transit Center

Silver Spring Transit Center From: Silver Spring Metrorail Station To:

DESCRIPTION: This project replaces the existing 30 year-old Silver Spring transit facility with a new 3-story, multi-modal transit center. Phase I, completed by the State, relocated the MARC facility near the transit center. Phase II provides for the joint development of a transit center, an urban park, and private development. The transit center consists of a pedestrian-friendly complex supporting rail (Metrorail and MARC), bus traffic (Ride-On, Metrobus, inter-city, and various shuttles), as well as taxis and kiss-and-ride.

TOTAL COST: \$73,105

(In Thousands)

COMPLETE: 2009

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PROJECT NAME: Veirs Mill Road Bus Enhancement

Veirs Mill Road From: Rockville To: Wheaton

DESCRIPTION: Reconstruction at key intersections along Veirs Mill Road to improve bus operating speeds. In addition, the project would include signal priority techniques and supportive infrastructure such as queue jumper lanes.

TOTAL COST: \$15,000

(In Thousands)

COMPLETE: 2015

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PROJECT NAME: University Boulevard Bus Enhancement

University Boulevard From: Kensington To: Silver Spring

DESCRIPTION: Reconstruction at key intersections along University Blvd. to improve bus operating speeds. In addition, the project would include signal priority techniques and supportive infrastructure such as queue jumper lanes.

TOTAL COST: \$500

(In Thousands)

COMPLETE: 2020

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## VDOT

PROJECT NAME: Metro Station (Proposed)

From: Potomac Yards

To:

DESCRIPTION: Construct a Metro station on an existing rail line in order to provide access to the Potomac Yard development. VRE component has been dropped.

TOTAL COST: \$50,000

(In Thousands)

COMPLETE: 2020

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PROJECT NAME: Light Rail

From: Manassas

To: Dulles Airport

DESCRIPTION: Study/construct light rail service between Manassas and Dulles Airport.

TOTAL COST: \$790,000

(In Thousands)

COMPLETE: 2010

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PROJECT NAME: Transit Service Improvements

VA 7100 Fairfax County Parkway

From: US 1

To: VA 7

DESCRIPTION: Transit service improvements in the the Fairfax County Parkway Corridor. Improvements to be investigated include priority bus service.

TOTAL COST:

(In Thousands)

COMPLETE: 2012

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PROJECT NAME: Transit Service Improvements

VA 236

From: City of Fairfax

To: City of Alexandria

DESCRIPTION: Transit service improvements in the the VA 236 Corridor. Improvements to be investigated include priority bus service.

TOTAL COST:

(In Thousands)

COMPLETE: 2010

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PROJECT NAME: Transit Service Improvements

US 50

From: Eastern Loudoun County

To: Arlington County

DESCRIPTION: Transit service improvements in the US 50 Corridor between Eastern Loudoun County and Arlington County. Improvements to be investigated include priority bus.

TOTAL COST: \$2,500

(In Thousands)

COMPLETE: 2010

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PROJECT NAME: Transit Service Improvements

VA 7

From: Tysons Corner

To: Baileys Crossroads

DESCRIPTION: Transit service improvements in the VA 7 Corridor between Tysons Corner and Bailey's Crossroads. Improvements to be investigated include priority bus, bus-rapid transit (BRT), and light rail.

TOTAL COST: \$368,000

(In Thousands)

COMPLETE: 2012

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PROJECT NAME: I-95 Corridor Metro Rail Extension

From: Franconia-Springfield

To: Potomac Mills Mall

DESCRIPTION: Study/construct Metro Rail service extension between Franconia-Springfield and Potomac Mills Mall. Rail on CSX alignment to Route 1 & four additional stations in VA. Construct in two segments: Franconia-Springfield to Lorton/Fort Belvoir and Lorton/Fort Belvoir to Potomac Mills Mall

TOTAL COST: \$1,340,000

(In Thousands)

COMPLETE: 2010

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PROJECT NAME: Transit Service Improvements

I 66 I-66

From: Fauquier County Line

To: Rosslyn

DESCRIPTION: Transit service improvements in the I-66 Corridor between Fauquier County and Rosslyn in Arlington County. Improvements to be investigated include increased feeder bus service to Metrorail, implementation of service between the Metro stations and unserved destinations in the Corridor, express bus to the Vienna Metro Station from sites west of Vienna, and extension of Metrorail from Vienna to Centreville.

TOTAL COST:

(In Thousands)

COMPLETE: 2010

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PROJECT NAME: Transit Service Improvements (UPC T1123, T1124)

US 1

From: Stafford County Line

To: Pentagon

DESCRIPTION: Study / implement / market / promote priority bus service in the US 1 Corridor in NoVA. Improve pedestrian crossings, particularly those accessing bus stops; upgrade bus stops; establish transit centers, and park-and-ride lots. Install traffic signal pre-emption equipment in the corridor, allowing buses to extend green times on signals; thereby improving bus speeds and bus schedule reliability.

Examine / implement various transit strategies in the Route 1 Corridor.

TOTAL COST:

(In Thousands)

COMPLETE: 2010

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PROJECT NAME: Transit Service Improvements

I 495 Capital Beltway

From: Woodrow Wilson Bridge

To: American Legion Bridge

DESCRIPTION: Transit service improvements in the I-495/I-95 Capital Beltway Corridor between the Woodrow Wilson Bridge and the American Legion Bridge. Improvements to be investigated include increased feeder bus service to Metrorail, implementation of service between the Metro stations and unserved destinations in the Corridor, and provision of circumferential express bus service.

TOTAL COST:

(In Thousands)

COMPLETE: 2010

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PROJECT NAME: Columbia Pike Bus Service Enhancements - Phase II

VA 244 Columbia Pike

From: Fairfax County Line

To: Pentagon

DESCRIPTION: Standardize bus stops along Columbia Pike to include adequate landing pads, curbs, stop areas, and shelter seating.

TOTAL COST: \$4,356

(In Thousands)

COMPLETE: 2011

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PROJECT NAME: Columbia Pike Street Cars

Columbia Pike

From: Fairfax County Line

To: Pentagon City

DESCRIPTION: It is a joint project between Fairfax and Arlington Counties along Columbia Pike to bring an enhanced form of surface transit to this heavily used transit corridor. The project consists of environmental studies, preliminary engineering, design and construction of a streetcar running approx. 4.7 miles between Pentagon City in Arlington County and Skyline in Fairfax County. The Streetcar was selected by the Board of each county in 2006 as the locally preferred alternative to provide enhanced transit and promote revitalization and redevelopment of this corridor. For most of its length, the streetcar will run in mixed traffic. It will be constructed in coordination with another project to reconstruct Columbia Pike through Arlington County with enhanced streetscape and consistent five lane cross section.

TOTAL COST: \$135,000

(In Thousands)

COMPLETE: 2010

PROJECT NAME: Park-and-Ride Lots

From: Springfield CBD &

To: Engineering Proving Grounds (EPG)

DESCRIPTION: This project includes the design, land acquisition, and construction of a park-and-ride / multi-modal transportation facility in the vicinity of the I-95 interchange with Old Keene Mill Road in Springfield. This facility will include up to 1,000 parking spaces for commuters and other travelers who ride buses or travel via carpools / vanpools, particularly in the Shirley Highway (I-395) HOV lanes. Proximity to the entrance to the I-95/I-395 HOV lanes makes this location well suited for carpool and vanpool formation. The Springfield Underground, an informal citizen ridesharing system, has been operating for over 20 years in this area using several "joint-use" park-and-ride lots.

It is expected that this facility will be a multi-level structure adjacent to Old Keene Mill Road.

TOTAL COST: \$23,000

(In Thousands)

COMPLETE: 2008

PROJECT NAME: Park-and-Ride Lots in the Dulles Corridor

From: Reston East at Wiehle Ave. and Hern To:

DESCRIPTION: The two park-and-ride facilities in the Dulles Corridor, the 850 space surface facility at Reston East, and the 1,800 space, structured facility at Herndon-Monroe are now operational. Additional work at the two facilities include adding lighted canopies over the bus bay platforms at both park-and-ride lots.

TOTAL COST: \$43,740

(In Thousands)

COMPLETE: 2005

PROJECT NAME: Transit Center

From: Bradlee Shopping Center

To:

DESCRIPTION: Construct a transit center to facilitate bus transfers in the vicinity of the Bradlee Shopping Center.

TOTAL COST: \$500

(In Thousands)

COMPLETE: 2006

PROJECT NAME: FAIRFAX CONNECTOR Buses

From:

To:

DESCRIPTION: Will provide for replacement of existing FAIRFAX CONNECTOR buses on approximately a 12-year cycle.

TOTAL COST: \$26,494

(In Thousands)

COMPLETE: 2012

PROJECT NAME: Transit Center (Seven Corners)

From: Seven Corners Shopping Center To:

DESCRIPTION: Construct a transit center at the Seven Corners Shopping Center to facilitate transit use in eastern Fairfax County and western Arlington County. This will be an efficient transfer area with bus shelters, information kiosks, landscaping, trash cans, and a reinforced bus bay area and travelway.

TOTAL COST: \$1,000

(In Thousands)

COMPLETE: 2006

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PROJECT NAME: VRE - Gainesville - Haymarket Extension

Prince William County

From:

To:

DESCRIPTION: VRE - Gainesville - Haymarket Extension

TOTAL COST: \$243,100

(In Thousands)

COMPLETE: 2016

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PROJECT NAME: Circumferential Metro Rail

From: Dunn Loring

To: American Legion Bridge

DESCRIPTION: Study/construct Metro Rail service between Dunn Loring and the Red Line in Bethesda. Rail on structure & two additional stations in VA.

TOTAL COST: \$790,000

(In Thousands)

COMPLETE: 2010

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## TransAction 2030 Transit Projects

### Corridor 1: Dulles/VA 7:

- Construct Light Rail in VA 7 corridor from Tysons Corner to Baileys Crossroads/Skyline

### Corridor 2: Tri-County/Loudoun County Parkway & VA 234/VA 659

- None

### Corridor 3: VA 28

- Construct VRE Service Extension from Manassas to Fauquier County Line (includes full extension)
- Construct Light Rail on Route 28 from Manassas to Dulles Airport

### Corridor 4: Prince William Parkway

- Implement Priority Bus from Woodbridge to Manassas

### Corridor 5: Fairfax County Parkway (VA 7100)

- Implement corridor-wide priority bus service

### Corridor 6: I-66/US 29/US 50

- Construct Metrorail along I-66 corridor from Vienna to Centreville
- Construct VRE Service Extension from Manassas to Haymarket
- Implement Express Bus Service on I-66 Corridor
- Implement Priority Bus along US 50 from VA 659 relocated (Loudoun) to Glebe Road
- Construct 2,450 additional parking spaces at VRE stations along the Manassas line

### Corridor 7: I-495 (Beltway)

- Construct Metrorail Circumferential Line from Dunn Loring to Bethesda (Red Line)
- Implement corridor-wide Express Bus from Woodrow Wilson Bridge to American Legion Bridge

### Corridor 8: I-95/I-395/US 1

- Construct a Transitway from Crystal City to Potomac Yard
- Extend Metrorail from Springfield to Potomac Mills
- Construct 3,150 additional parking spaces at VRE stations along the Fredericksburg line

### Other

- Construct Light Rail along Columbia Pike Corridor from Baileys Crossroads/Skyline to Pentagon
- Implement Priority Bus Service along VA 236 from City of Fairfax to Alexandria