

National Capital Region
Transportation Planning Board
Regional Public Transportation Subcommittee

January 24, 2017



Richmond Highway Embark BRT Presentation Outline

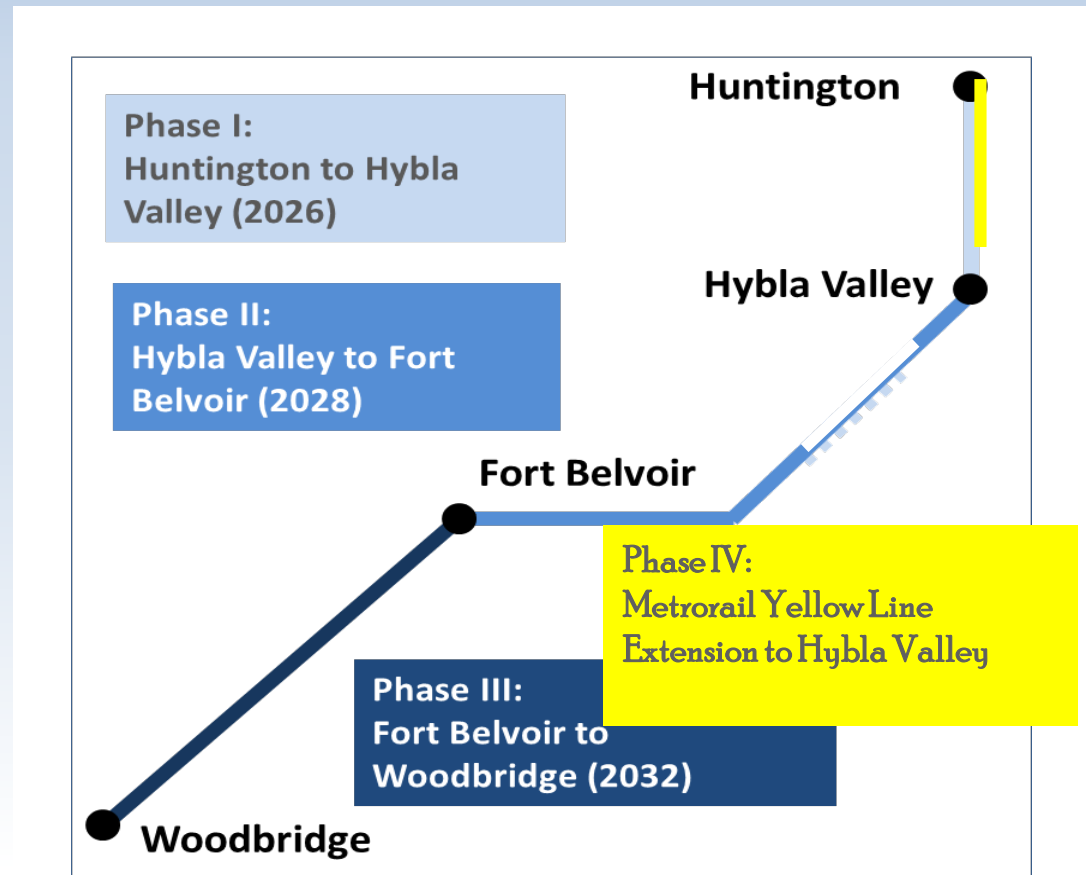
- I. Project overview, related projects, timeline
- II. Draft Richmond Highway cross-section
- III. Transportation analysis
- IV. Conceptual street grid network

I. PROJECT OVERVIEW

Embark Richmond Highway

- Next step in creating a walkable, bikable, transit-oriented Richmond Hwy.
- Dependent on land use changes and funding
- Builds upon a state-led study to identify the type of transit mode:
“BRT/Metrorail Hybrid”

- Median running Bus Rapid Transit (BRT)
- Metrorail extension to Hybla Valley
- Roadway Widening
- Bicycle and Pedestrian Facilities



Embark Components: Huntington to Accotink



Comprehensive Planning

- Refine transportation guidance, including planned transit modes
- Refine planned land use and urban design guidance at 9 stations in support of BRT

Environmental work

- Supporting Bus Rapid Transit and Richmond Highway widening

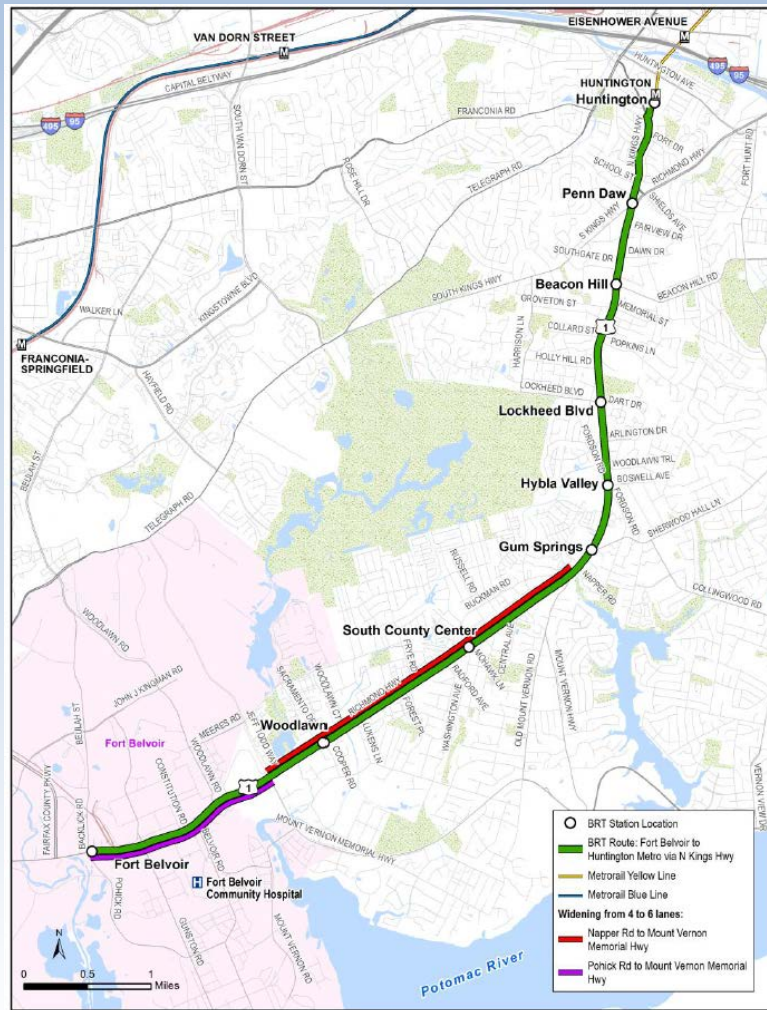
Related Activity – Bus Rapid Transit System Planning and Design

BRT System (Huntington to Fort Belvoir)

- Project Management Consultant Team
 - Specialized team with past BRT experience
 - Will aid County in Environmental, Design and Implementation work
 - Awarded to Richmond Highway Bus Rapid Transit Partners ~ Joint Venture by STV, Inc. and Rummel, Klepper & Kahl, LLP (RK&K)
- Anticipated operation beyond 2028

Phase I (Huntington to Hybla Valley)

- Estimated cost \$324.6M
 - Approx. \$25M available from state and local sources
 - \$100M requested through VA Smart Scale application for FY 2018-23



Comprehensive Plan Project Schedule

January – March 2017

Transportation analysis – base 2040 (MWCOG forecast)

Land use alternative impacts assessment (schools, environment, parks, stormwater, heritage resources)

*Decide whether 2nd land use alternative should be developed.

Community Meeting #4



July – September 2017

Refine station area concepts

Finalize transportation recommendations

Discuss detailed urban design guidelines to supplement Plan guidance

Draft Comprehensive Plan recommendations

Community Meeting #6



April – June 2017

Transportation analysis – BRT land use alternative
Station area concept plans

Cross section for North Kings Hwy

Community Meeting #5



October 2017 – January/February 2018

Final Plan text and staff report

Community Meeting #7 (final meeting)

Planning Commission public hearing (December)

Board of Supervisors public hearing (Jan/Feb)



II. DRAFT PROPOSED RICHMOND HIGHWAY CROSS SECTION

Transit Boulevard

Notes:

This section is consistent with the current Comprehensive Plan section right-of-way with updated VDOT trail (shared use path) standards.

Right-of-way width could change depending upon location of street lights and utilities.

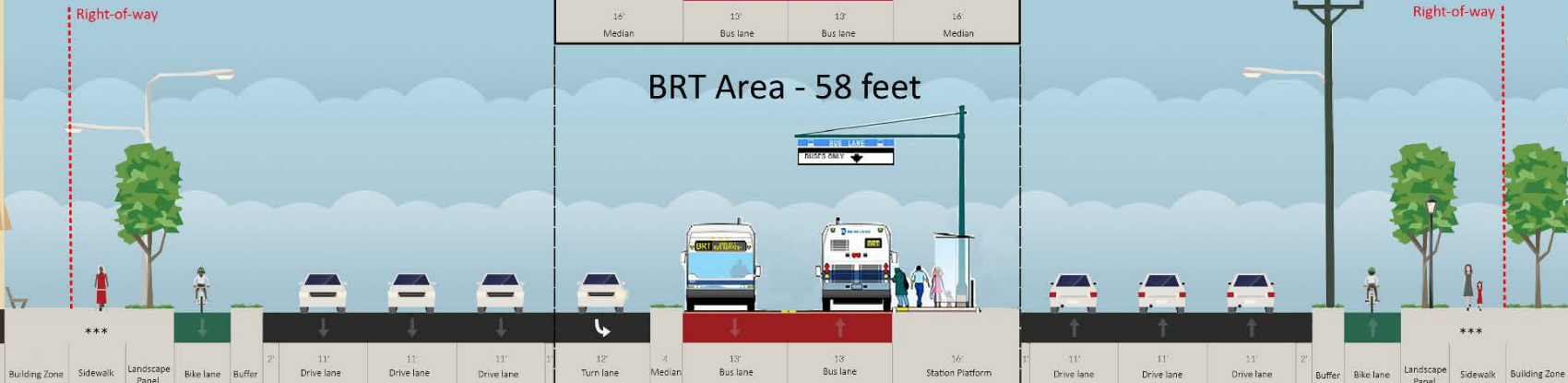
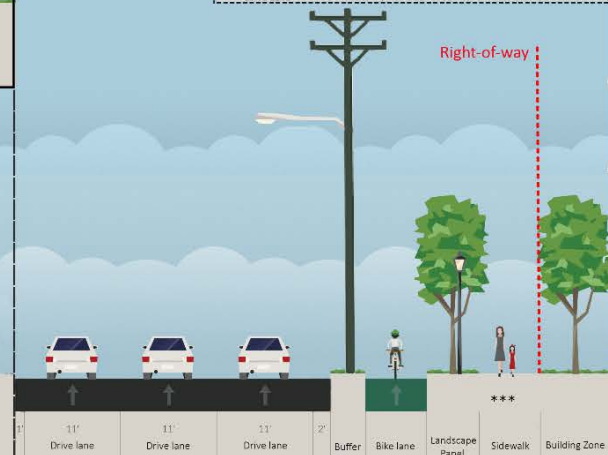
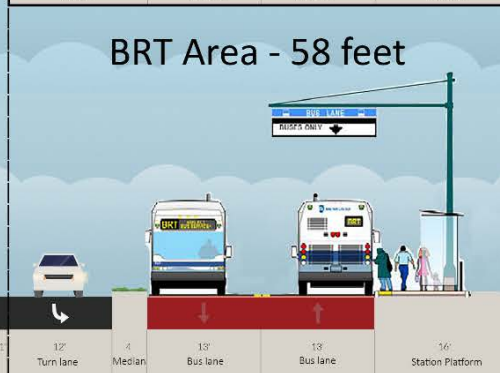
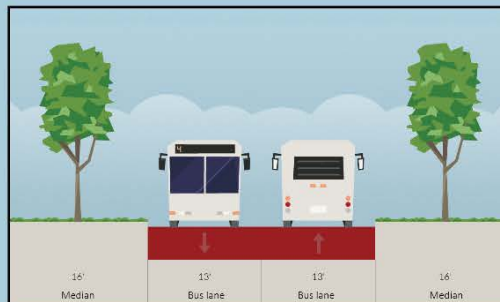
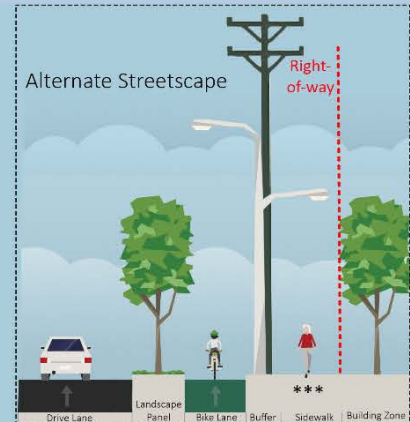
Location of the street light and utility poles will be determined with the design of the road including possible placement in the building zone.

For a majority of the corridor utilities will be located on one side of the road. Location shown is for illustrative purposes only.

***Placement of components from roadway curb to edge of right-of-way, including their dimensions, will be finalized with design.

Richmond Highway - 178 feet

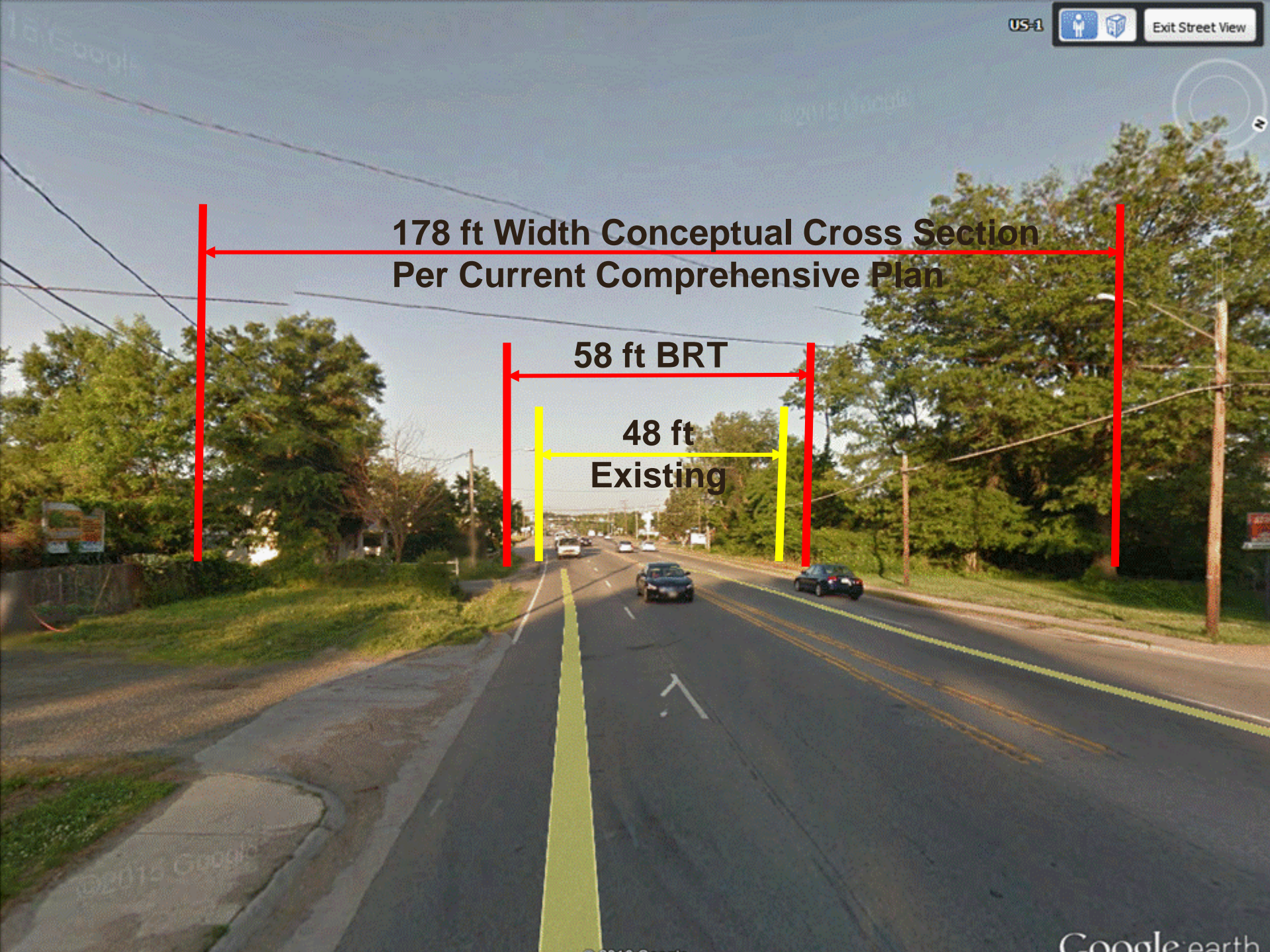
DRAFT Proposal



**178 ft Width Conceptual Cross Section
Per Current Comprehensive Plan**

58 ft BRT

**48 ft
Existing**



III. EMBARK RICHMOND HIGHWAY TRANSPORTATION ANALYSIS

Transportation Objectives

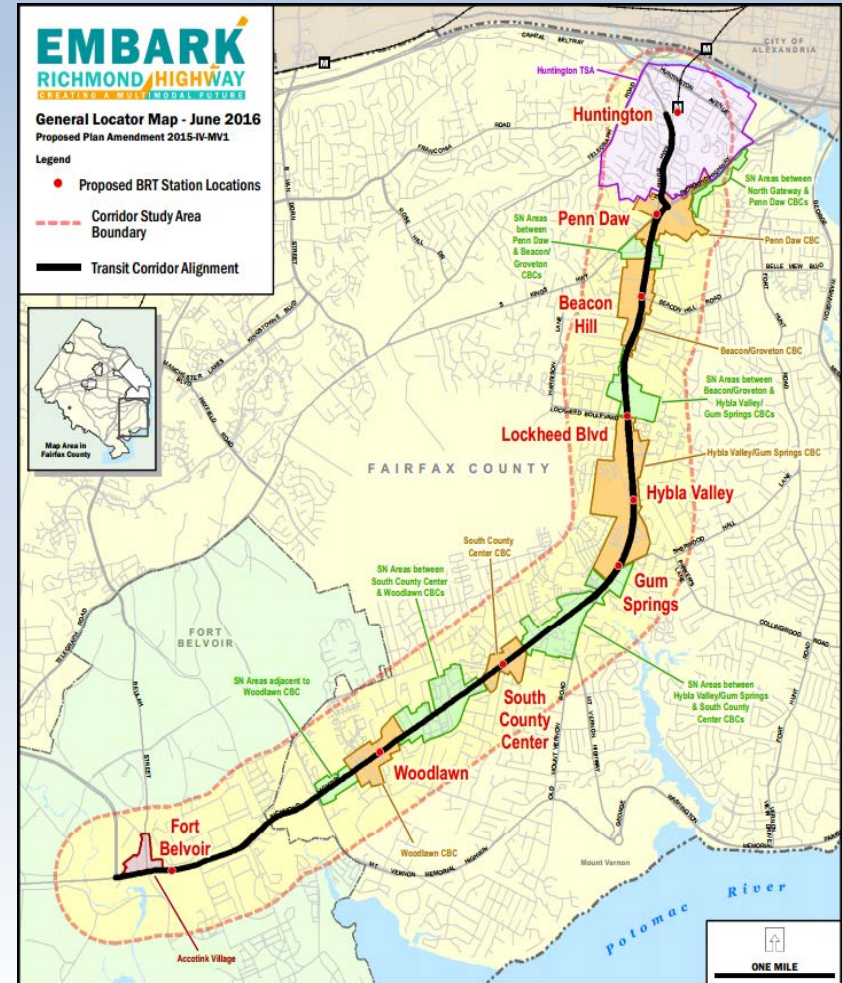
Improve and expand:

- Multi-modal travel on Richmond Highway
- Pedestrian and bicycle access
- Economic success and vitality of the corridor

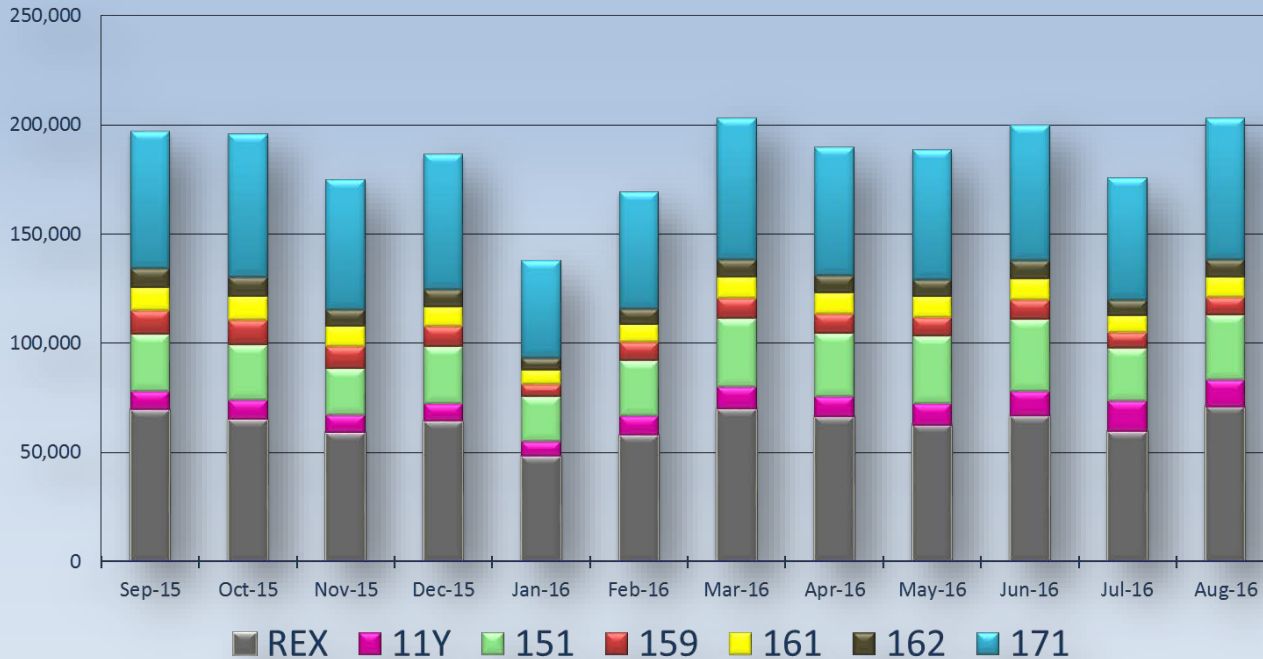


Anticipated Outcomes

- Estimated transit ridership and BRT performance
- Intersection levels-of-service, delay, queues
- Need for additional north/south road capacity
- Recommended improvements and mitigation



Bus Ridership: Existing and Projected



Monthly ridership averages about 190,000 riders.

Source: WMATA and FCDOT Transit

- Baseline 2040 Estimates for BRT Stop Level Boardings:
 - About 10,500 daily boardings in AM and PM peak
 - About 4,750 daily boardings in off-peak hours

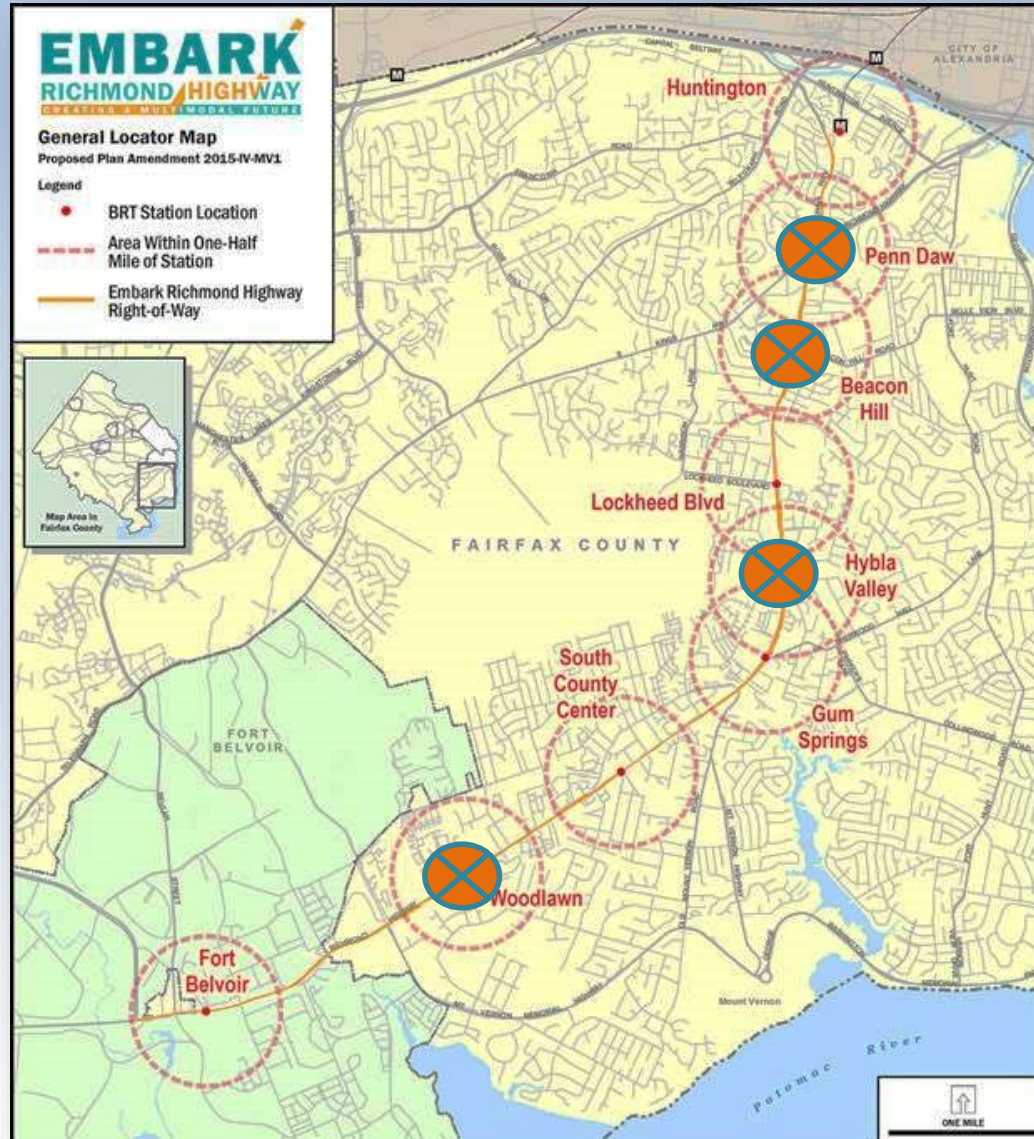
IV. CONCEPTUAL STREET GRID NETWORK

Considerations for Creating a Street Grid Network

- BRT station locations
- Block size to accommodate development
- Public space, placemaking, and livability
- Adjacent land use characteristics
- Connections into existing communities
- Safety and walkability

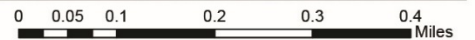
Opportunities for Street Grid Network

- ◆ Penn Daw
- ◆ Beacon Hill
- ◆ Hybla Valley
- ◆ Woodlawn
- ◆ Indicates General Grid Location





S:\GIS\Project Folders\EMBARK Base Maps\EMBARKBeaconGroveton.mxd



Next Steps

- BRT Alternative Land Use Analysis
 - January 2017 – March 2017
- Develop Mitigation Plan
 - March 2017 – April 2017
- VDOT Chapter 870
 - January 2017 – February 2017: Scoping
 - March 2017 – April 2017: Assembling
 - May 2017 – July 2017: VDOT Review
 - August 2017: VDOT and FCDOT Coordination*
- Incorporate Results in Plan Text
 - September 2017 – October 2017
- Public Hearings
 - December 2017 – January/February 2018



Stay Informed and Contact Us



- Website: <http://www.fairfaxcounty.gov/dpz/embarkrichmondhwy>
- Listserv:
<http://www.fairfaxcounty.gov/email/lists/>
- Email:
DPZ-RichmondHighway@fairfaxcounty.gov
- Facebook: <https://www.facebook.com/fairfaxlanduse>
- Call Planning and Zoning Staff: (703)324-1380
- Call Transportation Staff: (703)877-5600

Public Meetings

- Monthly Advisory Group:

<http://www.fairfaxcounty.gov/dpz/embarkrichmondhwy/meetings>

- Public comment typically invited at the end of meetings
- Next meeting is February 27, 2017, 8:30 – 10:30 am, South County Center

- Community meetings:

<http://www.fairfaxcounty.gov/dpz/embarkrichmondhwy/meetings>

- Community Meeting #4, March 2017; Location and Time TBD

End of Presentation
Questions?

Thank You