



Envision Route 7 Phase IV Mobility Study Community Chat

October 11, 2022

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Burak Cesme,
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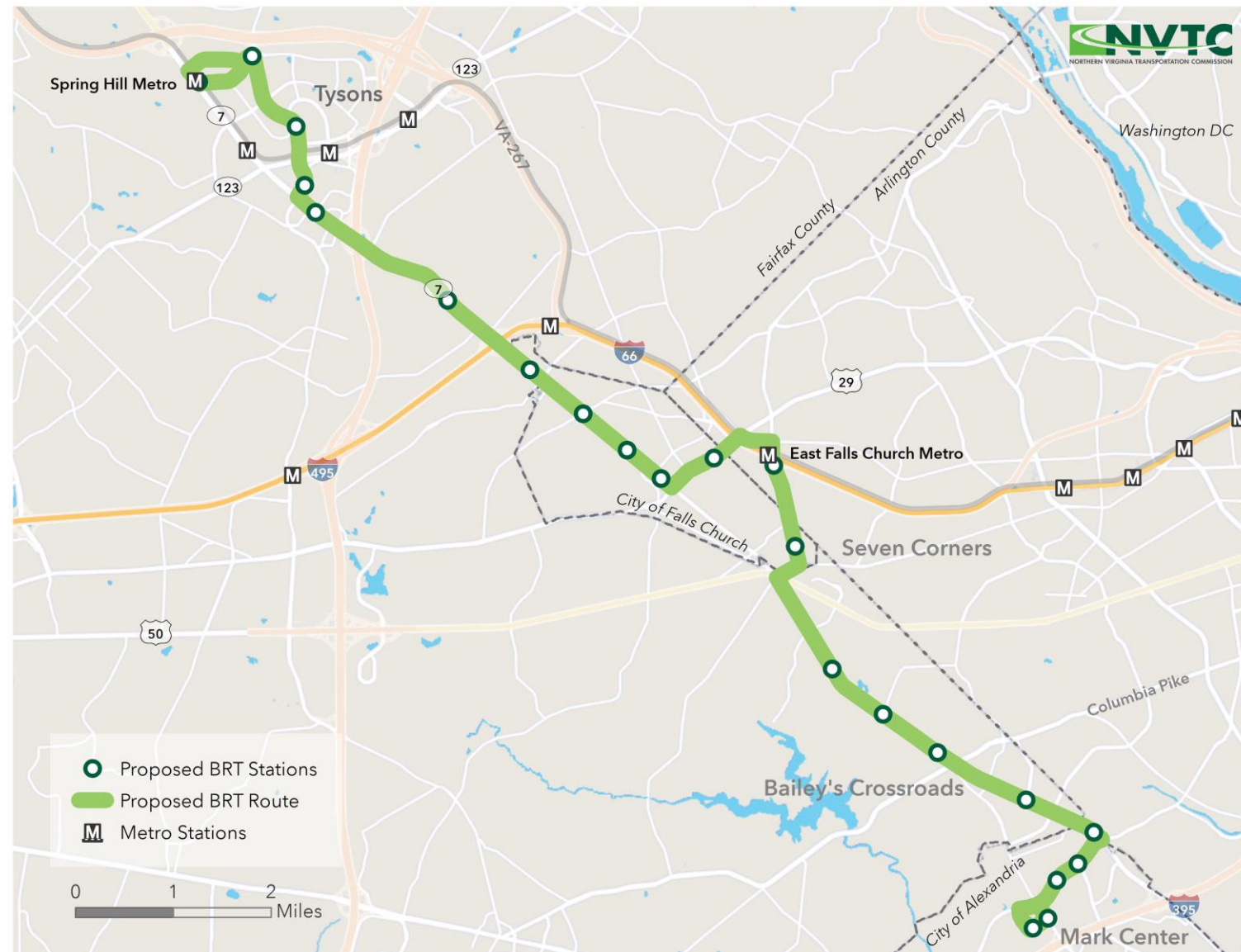


Meeting Agenda and Format

- 7:00 PM – 7:15 PM: Overview of Envision Route 7 Project
- 7:15 PM – 8:00 PM: Q/A at Information Boards

Envision Route 7 Project Overview

- Bus Rapid Transit (BRT) system from Mark Center to Tysons Corner
- Second busiest bus ridership corridor in Northern Virginia



Envision Route 7 Project Phases

ENVISION ROUTE 7

Why BRT?



more
affordable



expanded
access to jobs



faster, more
reliable trips



improved
mobility



fewer
greenhouse gas
emissions

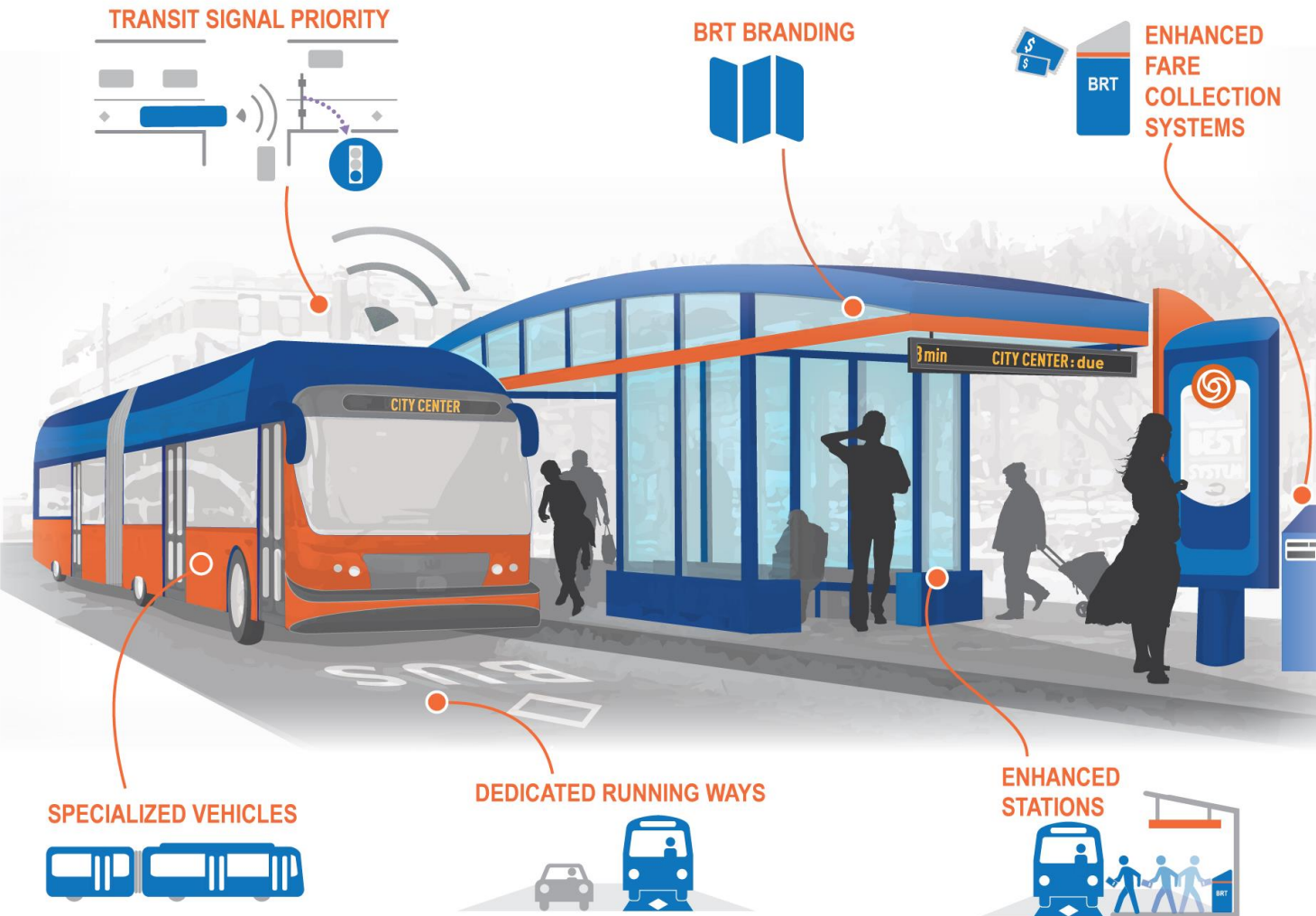


- **Phase I** identified transit options
- **Phase II** selected BRT as a solution
- **Phase III** developed BRT concept
- **Phase IV** assess mobility benefits within the City of Falls Church

Envision Route 7 Phase IV: Study Corridor and Objectives

- 3.5 miles corridor in the City of Falls Church
- Connection to East Falls Church Metrorail Station
- Study objectives:
 - Determine the mobility effects of BRT
 - Facilitate public understanding of BRT
 - Test multiple BRT concepts





Bus Rapid Transit (BRT) Overview

- BRT is a **high-capacity** and **high-quality** transit system
- Provides **fast** and **reliable** service

Source: Madison Corridor Bus Rapid Transit, SDOT 2015

Bus Rapid Transit (BRT) Overview



Bus Lanes
(Washington, DC)



Off-Board Fare Payment
(New York City)



Level Boarding
(Eugene, Oregon)



Real Time Info
(Minneapolis)



All Door Boarding
(Los Angeles)

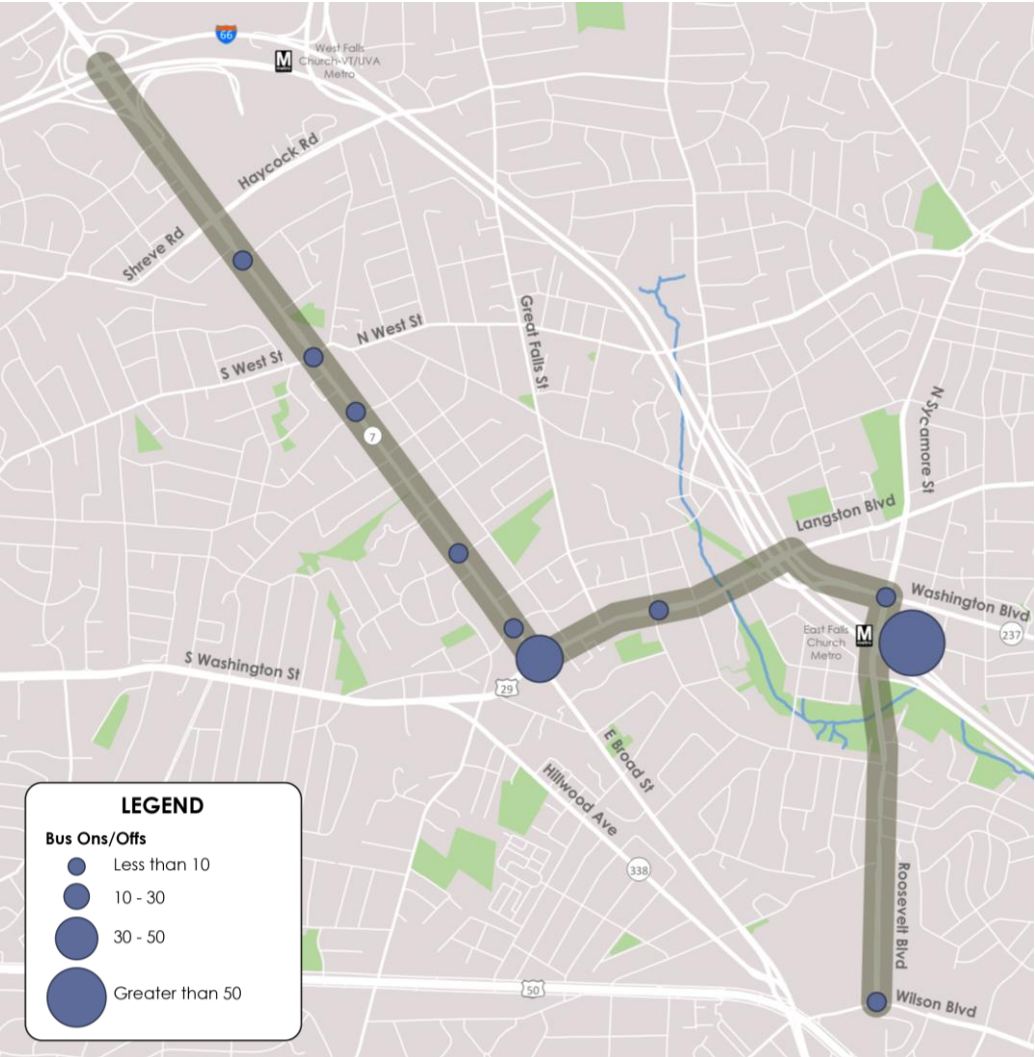
Envision Route 7: Public Engagement



Existing Conditions Summary

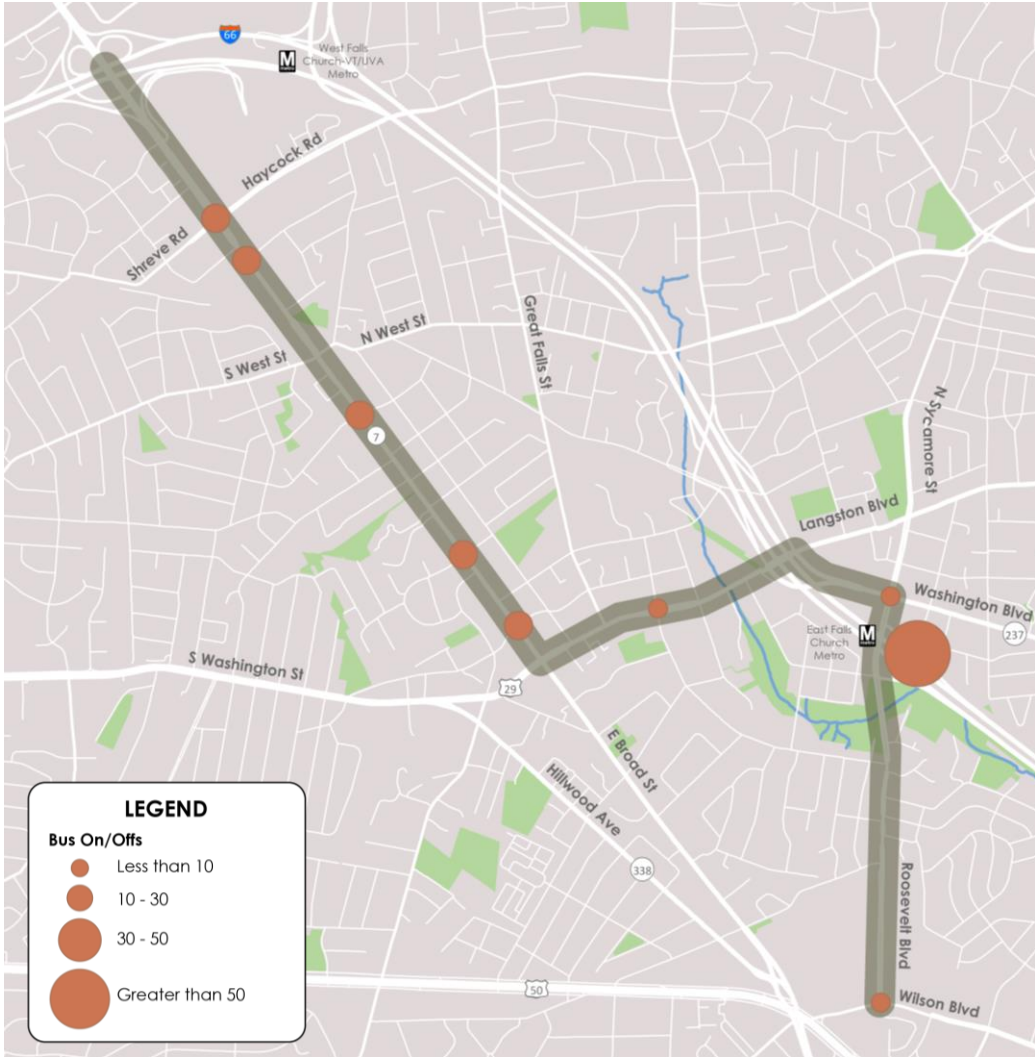
Bus Ridership

Morning Peak Period (6-9 AM) Boarding + Alighting
(Eastbound - Towards Seven Corners)



Source: WMATA, October 2019

Morning Peak Period (6-9 AM) Boarding + Alighting
(Westbound - Towards Tysons Corners)

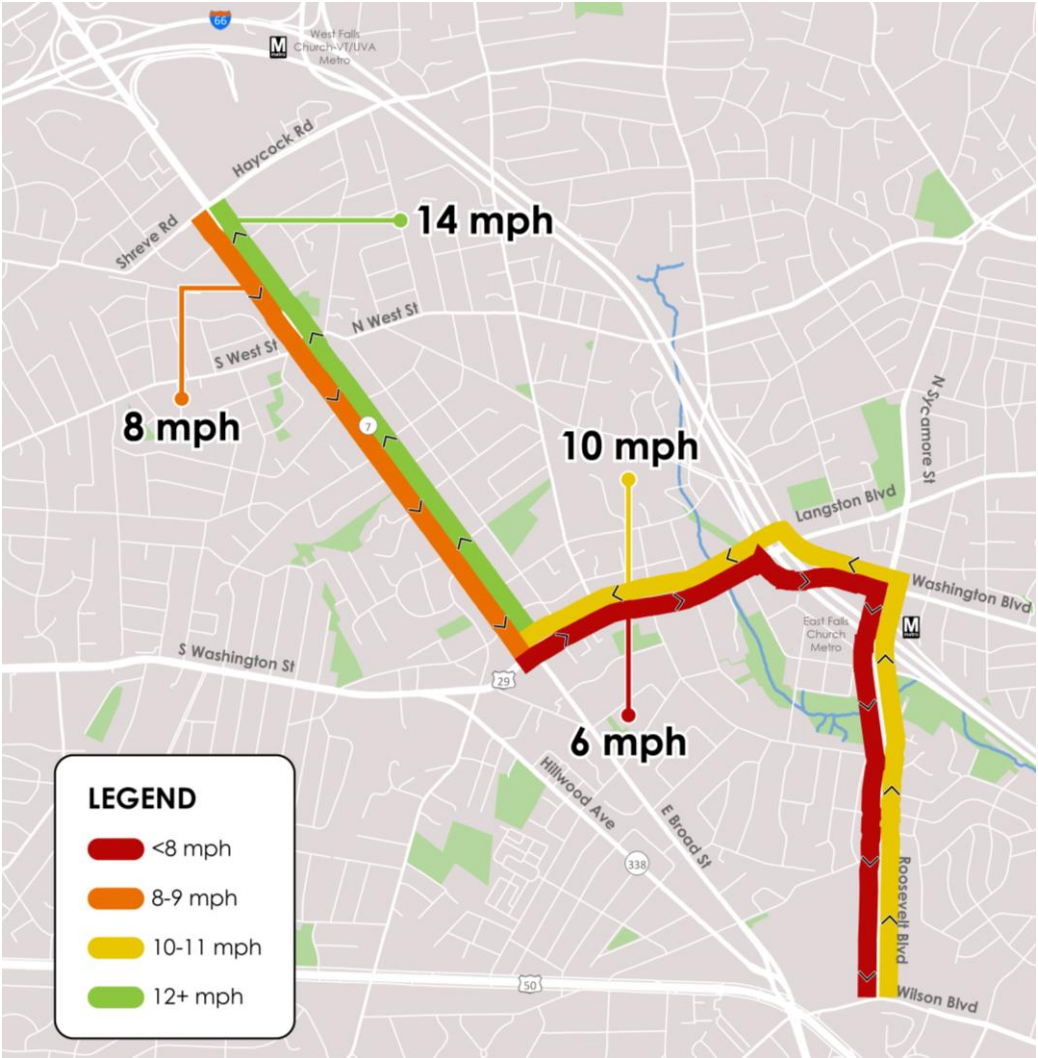
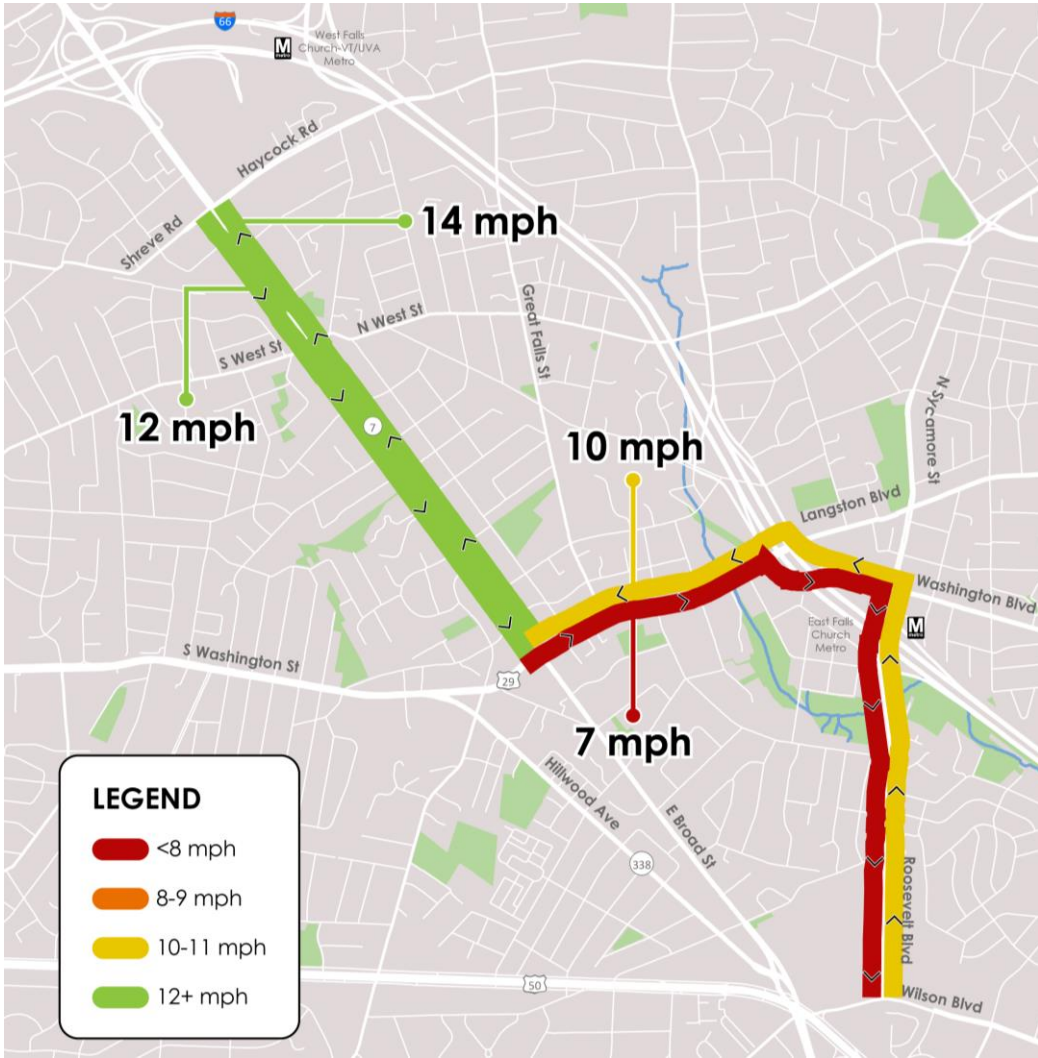


Source: WMATA, October 2019

Bus Speeds

Morning Peak Hour (7:30 – 8:30 AM)

Evening Peak Hour (4:30 – 5:30 PM)



Source: WMATA, October 2019

Source: WMATA, October 2019

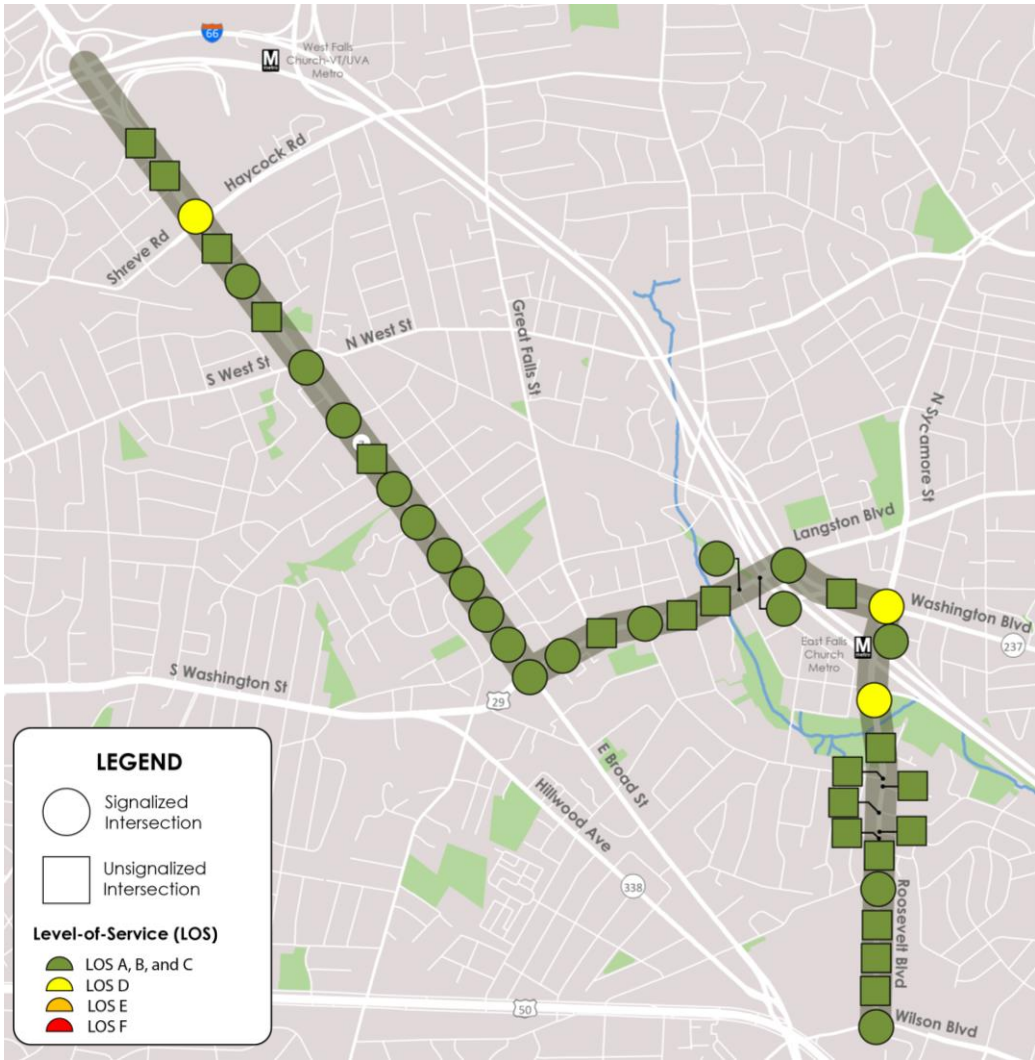
Vehicle Level of Service (LOS)

Morning Peak Hour (7:30 – 8:30 AM)



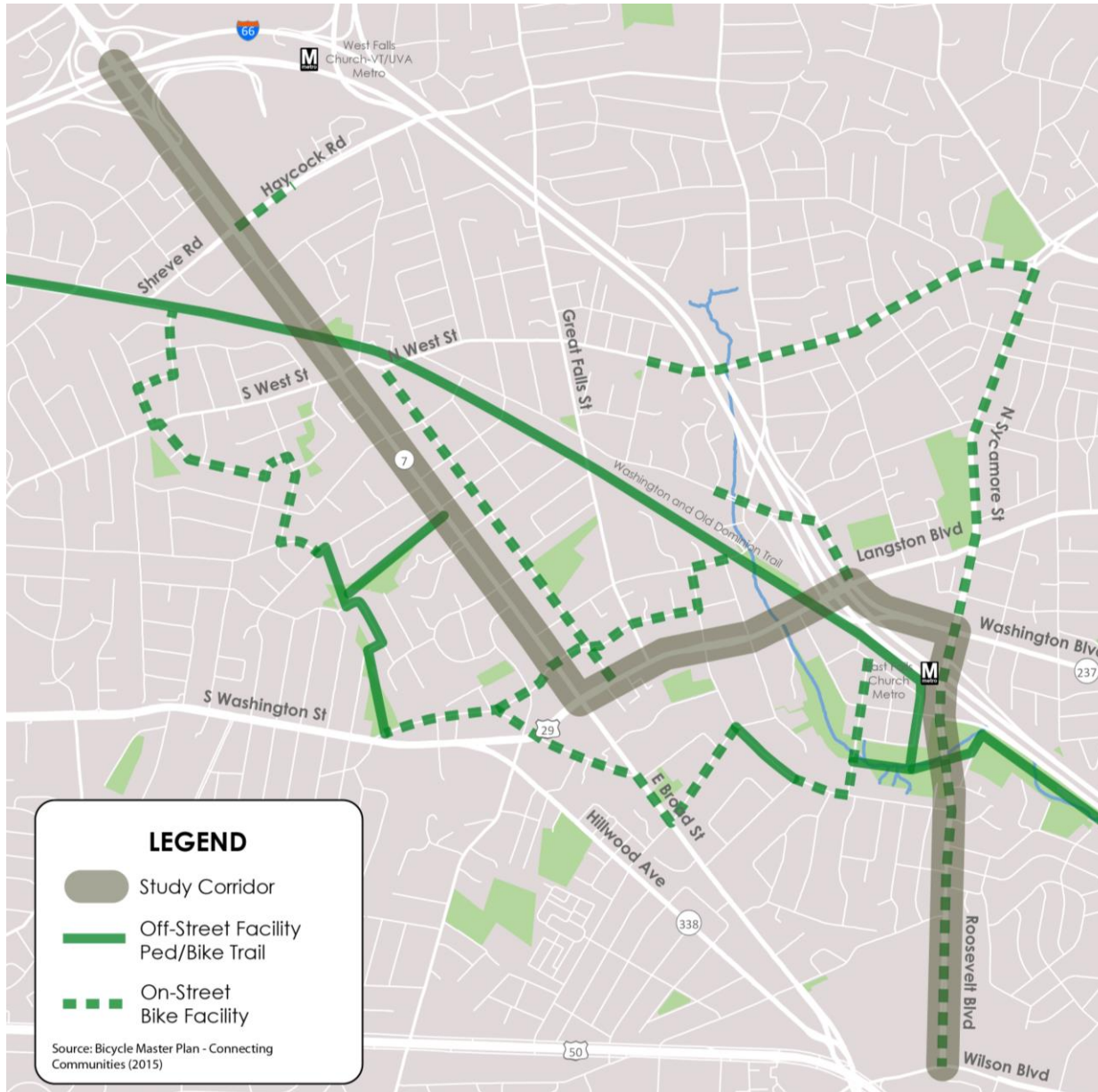
Source: 2019 Intersection Volumes

Evening Peak Hour (4:30 – 5:30 PM)



Source: 2019 Intersection Volumes

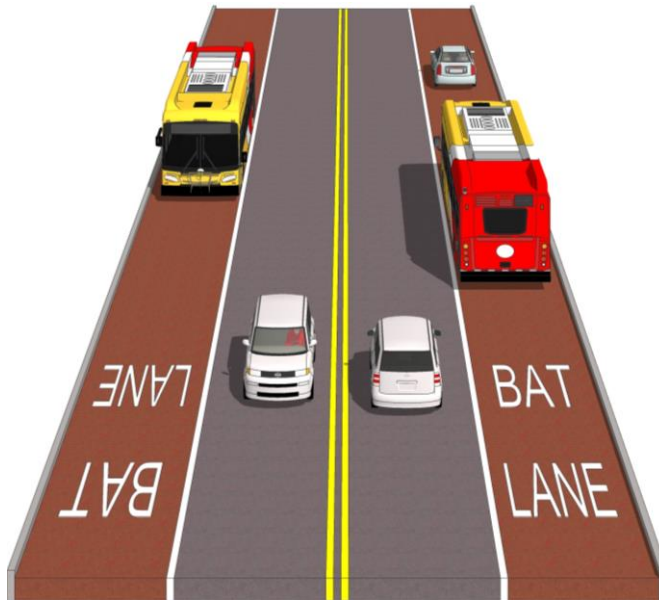
Bicycle and Pedestrian Conditions



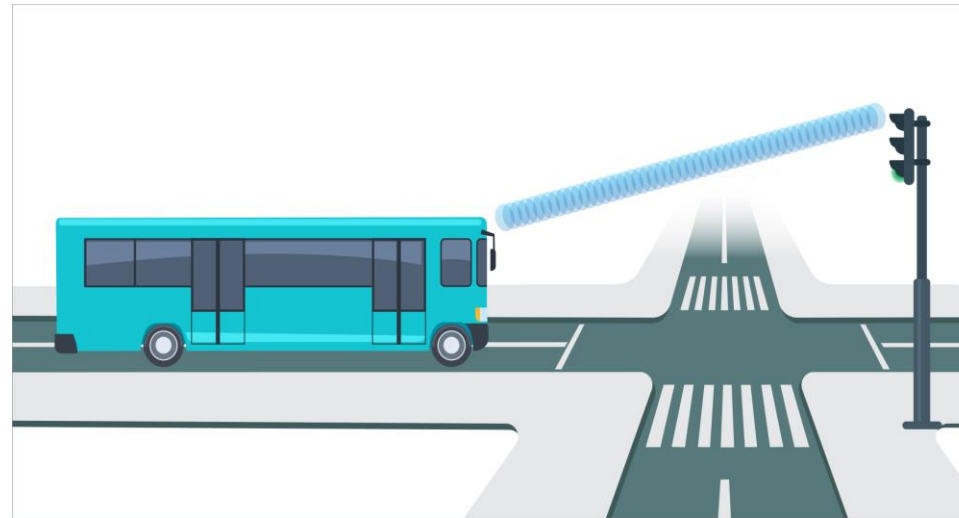
- **For bicycles**, study area is generally served well with both on-street and off-street facilities (e.g., W&OD Trail)
- **For pedestrians**, average pedestrian crossing times at intersections are generally short with a few exceptions

Potential BRT Infrastructure Elements for Falls Church Segment

Business Access and Transit (BAT) Lanes

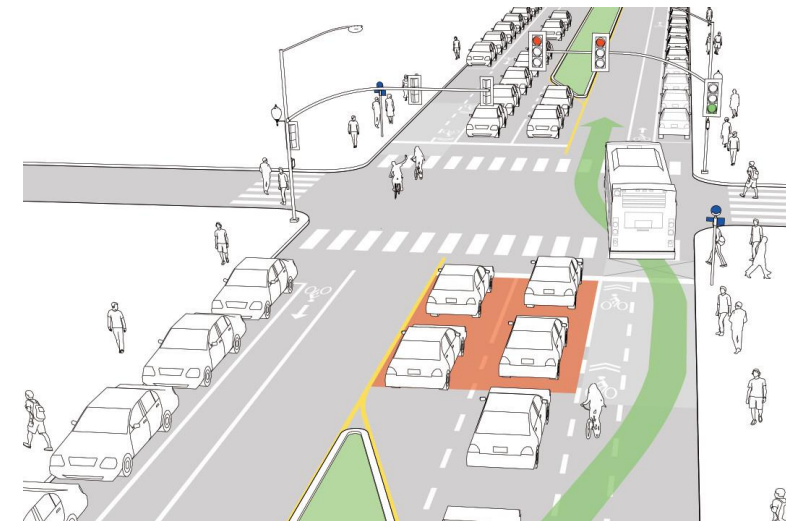


Transit Signal Priority (TSP)



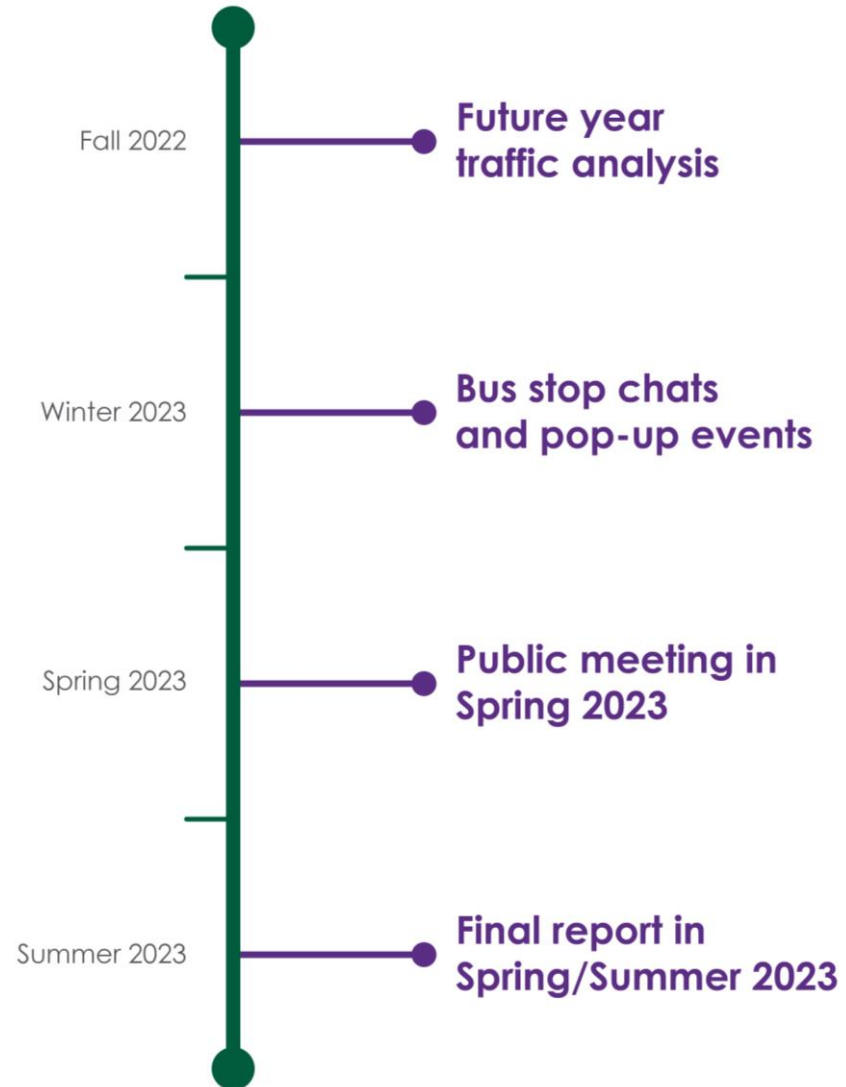
Source: LYT

Bus Queue Jump Lane and Queue Jump Signal



Source: NACTO

Next Steps



Thank You.

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Northern Virginia Transportation Commission

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<https://novatransit.org/programs/route7/>

