



I-66 Inside the Beltway Bus on Shoulder Pilot Program

**Update To TPB Task Force
January 23, 2013**

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Presentation Overview

- **Pilot Program Overview**
- **Tasks For Working Group**
- **Preliminary Data Collection & Analysis**
- **Factors For Selecting Locations BOS**
- **Preliminary Locations**
- **I-66 BOS Pilot Program Schedule**
- **Next steps**

Pilot Program Overview

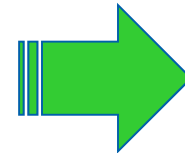
- **Impetus**
 - I-66 Inside the Beltway Multimodal Study
 - Low-cost, high impact, quick turn around congestion mitigation projects
- **Program Goals**
 - Successfully implement pilot
 - Develop Design and Operational protocol for BOS
 - Experience in Design, Operation, Safety, Maintenance, Costs
- **Working Group Products**
 - Operational & Design protocol
 - Rank and Recommend locations along I-66 (Inside the Beltway)
 - Transit services on BOS System
 - Monitoring & Evaluation plan
- **VDOT Follow up Actions**
 - Federal concurrence
 - Fund and Implement Engineering/Operational improvements
 - Implement pilot program

Working Group Tasks

- **Literature review – Completed**
 - To identify best practices related to implementation features, design, operations and safety experience
- **Baseline data collection and analysis – Completed**
(AM: 5:00- 11:00; PM: 1:00-8:00)
 - Speed data
 - Bus volume data
 - Right of way data
 - Geo technical data to determine shoulder strength
 - Incident data for the corridor
- **Definition of Problem / Opportunities – Completed**
 - Recurring congestion
 - Mainline speed < 35 mph
 - High volume of buses

Working Group Tasks (Continued)

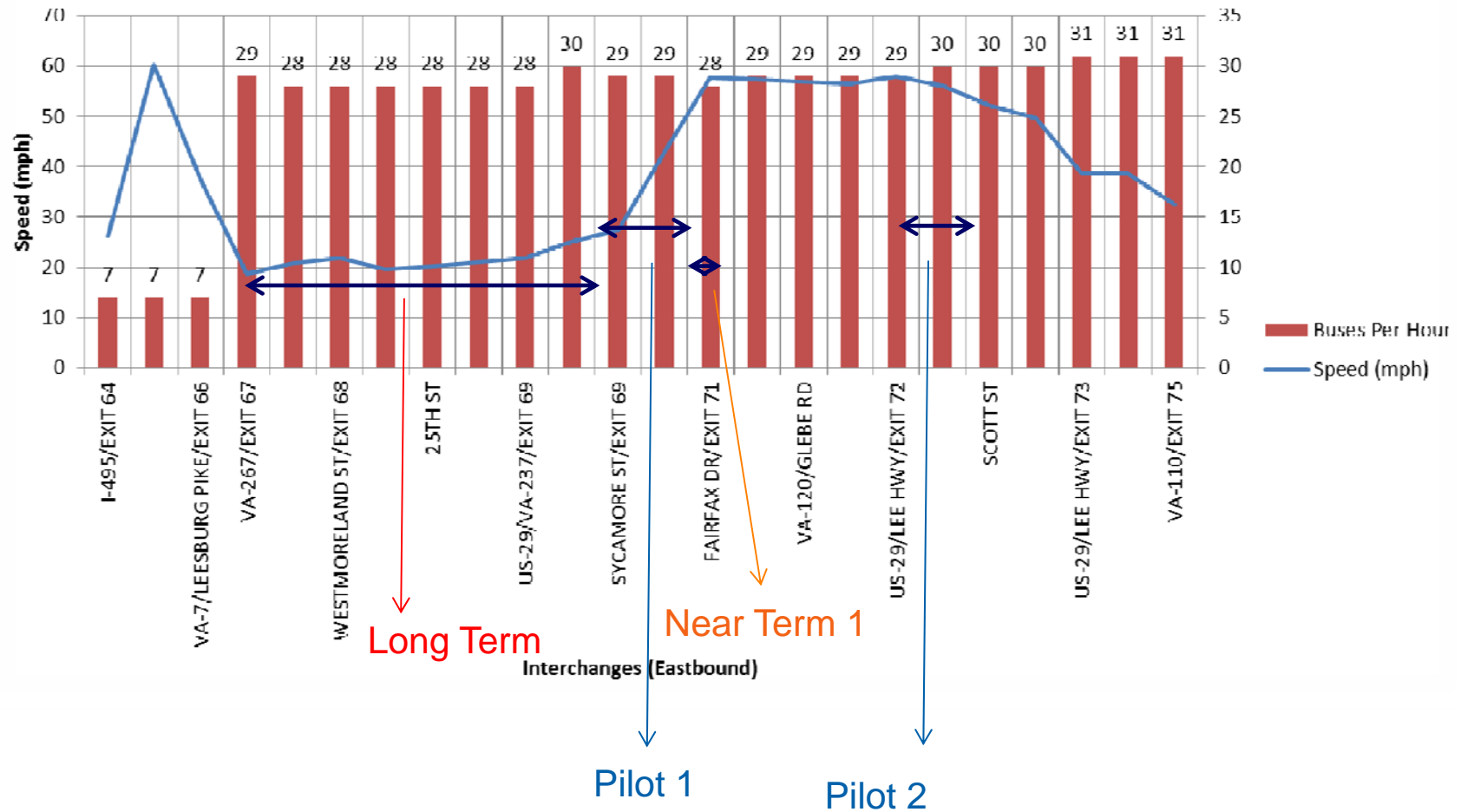
- **Operations Protocol – Completed**
 - Mainline operating speed <35 mph
 - Max bus operating speed on Shoulder < 35 mph
 - Minimum Shoulder Width > 11 feet
 - All day operations
 - Use limited to Public Transit Buses only
 - Shoulder strength adequate to support pilot for 2 year period
- **Identify Potential Location For BOS – Working**



Preliminary BOS Locations: EASTBOUND

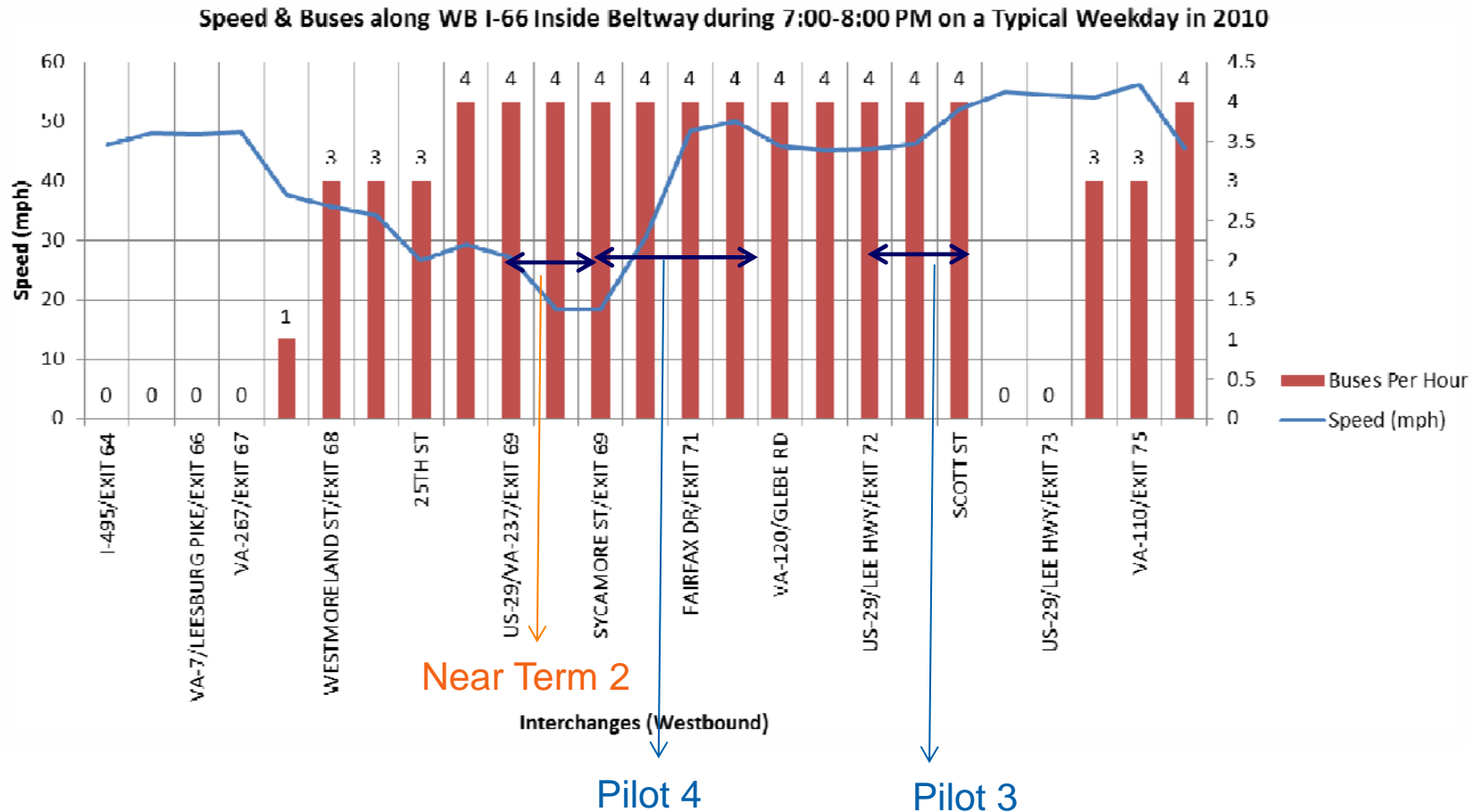
AM PERIOD: 7AM-8AM

Speed & Buses along EB I-66 Inside Beltway during 7:00-8:00 AM on a Typical Weekday in 2010



Preliminary BOS Locations: WESTBOUND

PM PERIOD: 7PM – 8PM



- **Pilot Term locations**

(*Low cost, minimal engineering and construction*)

- Eastbound

1. From N. Sycamore Street to N. Jacksonville St.
 - Length – 1.4 miles, Shoulder Width \geq 11.5 ft
Avg. Speed – 27mph Max bus density – 32 buses/hour
2. From Rte. 29 Overpass at Spout Run Pkwy to N. Nash St.
 - Length – 1.4 miles Shoulder Width = 11.0 ft,
Avg. Speed – 48mph Max bus density – 30 buses/hour

- Westbound

1. From N. Nash Street to Rte. 29 Overpass at Spout Run Pkwy
 - Length – 1.4 miles, Shoulder Width \geq 11.0 ft
Avg. Speed – 36mph, Max bus density – 31 buses/hour
2. From Fairfax Dr. On ramp near Glebe Road to N. Sycamore St
 - Length – 2.5 miles, Shoulder Width \geq 11 ft
Avg. Speed – 32mph Max bus density – 30 buses/hour

- **Near term locations**

(Medium cost, Moderate engineering and construction)

1. From N. Jacksonville Street to Glebe Road
 - Length – 1 mile Shoulder Width ≤ 10 ft
Avg. Speed – 27mph Max bus density – 32 buses/hour
2. Off Ramp N. Sycamore St to start of bridge over N. Sycamore St
 - Length – 0.2 miles Shoulder Width ≤ 9.6 ft
Avg. Speed – 32mph Max bus density – 30 buses/hour

- **Long term location**

(High cost, High engineering, right of way and construction)

1. From Dulles Connector On Ramp to Sycamore St
 - Length – 2.1 miles Shoulder Width ≤ 9 ft
Avg. Speed – 23mph Max bus density – 33 buses/hour

NEXT STEPS

- **Finalize BOS Locations** - *Feb. 2013*
- **Develop Implementation And Evaluation Plans** - *Mar. 2013*
- **Final Report to VDOT** - *Mar. 2013*