

TIGER Grant for Priority Bus Transit in the National Capital Region

MOITS Committee
October 12, 2010

Eric Randall
Sr. Transportation Engineer
Department of Transportation

TIGER Award: 16 Project Components constituting an integrated Regional Bus Priority Project

On February 17, 2010, U.S. Transportation Secretary, Ray LaHood, announced the award of a \$58.8 million grant to the National Capital Region Transportation Planning Board (TPB), including:

- \$26 million for improving bus transportation along priority corridors in the District of Columbia, Maryland and Virginia
 - Dedicated bus lanes, transit signal priority, limited stop service, enhanced pedestrian access, real-time passenger information, and enhanced bus stops
- \$19.9 million for multimodal improvements for priority bus transit connecting portions of Northern VA with the District of Columbia
- \$12.3 for a new multimodal Takoma/Langley transit center in Prince George's County

Funding for TIGER Project Components

Project Number	Project Name	Location	TIGER Grant Award
2	16th Street Bus Priority Corridor Enhancements	DC	\$1,295,000
3	Georgia Avenue Bus Priority Corridor Enhancements	DC	\$4,111,000
4	H Street/Benning Road Bus Priority Corridor Enhancements	DC	\$415,000
5	Wisconsin Avenue Bus Priority Corridor Enhancements	DC	\$745,000
6	Addison Road Bus Priority Corridor Enhancements	MD	\$200,000
7	University Boulevard Bus Priority Corridor Enhancements	MD	\$1,262,000
8	US 1 (MD) Bus Priority Corridor Enhancements	MD	\$805,000
9	Veirs Mill Road Bus Priority Corridor Enhancements	MD	\$265,000
10	US 1 (VA) Transitway	VA	\$8,500,000
11	VA 7 (Leesburg Pike) Bus Priority Corridor Enhancements	VA	\$1,340,000
12	Van Dorn - Pentagon Bus Priority Corridor Enhancements	VA	\$670,000
13	T. Roosevelt Bridge to K Street Bus Priority Corridor Enhancements	DC	\$1,800,000
14	14th Street Bridge to K Street Bus Priority Corridor Enhancements	DC	\$5,200,000
16a	Pentagon -- Franconia Springfield Station Improvements	VA	\$9,930,000
16b	PRTC Buses and ITS Technology	VA	\$10,000,000
18	Takoma/Langley Transit Center	MD	\$12,300,000
	TOTAL		\$58,838,000

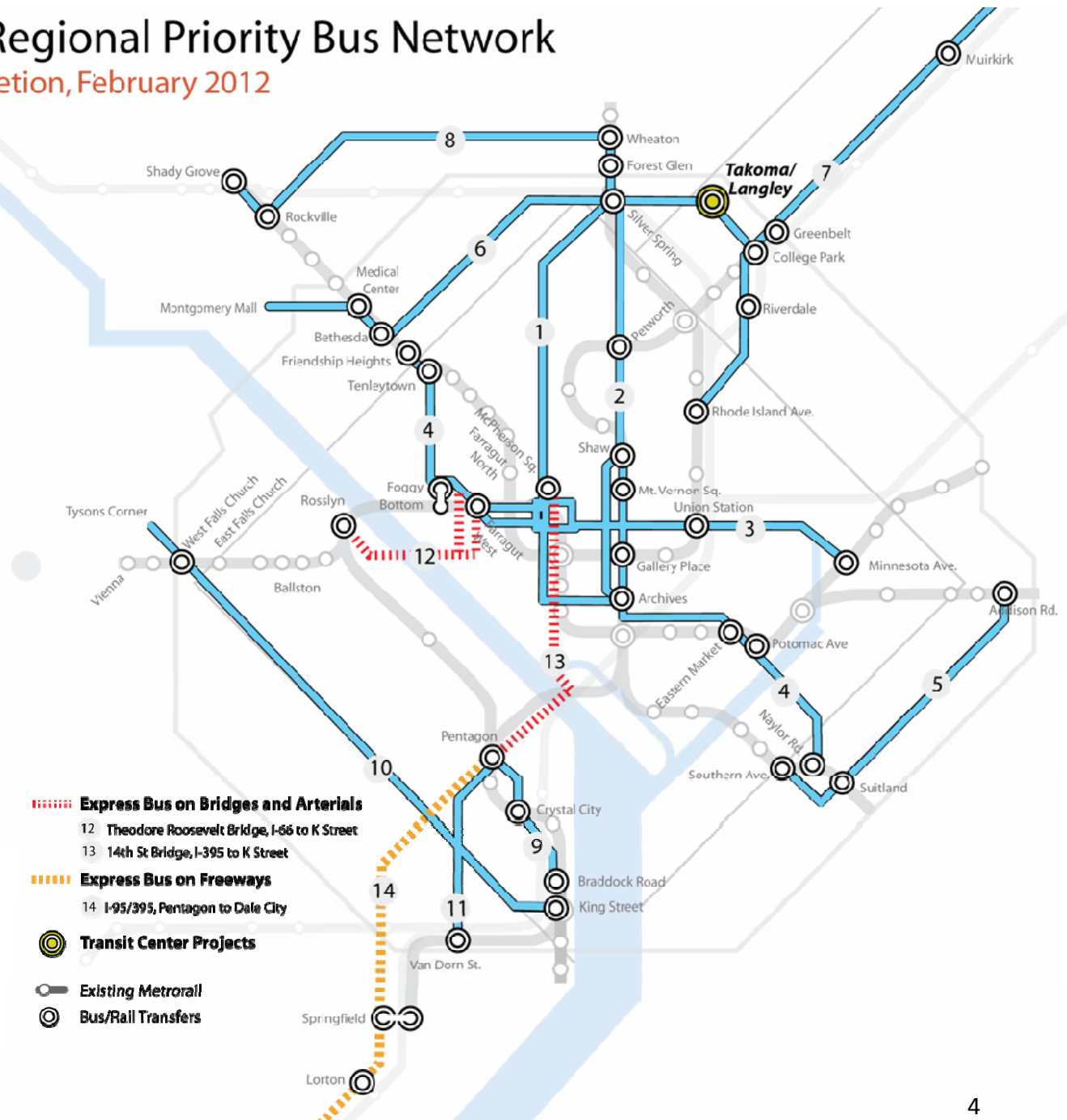
The Regional Priority Bus Network

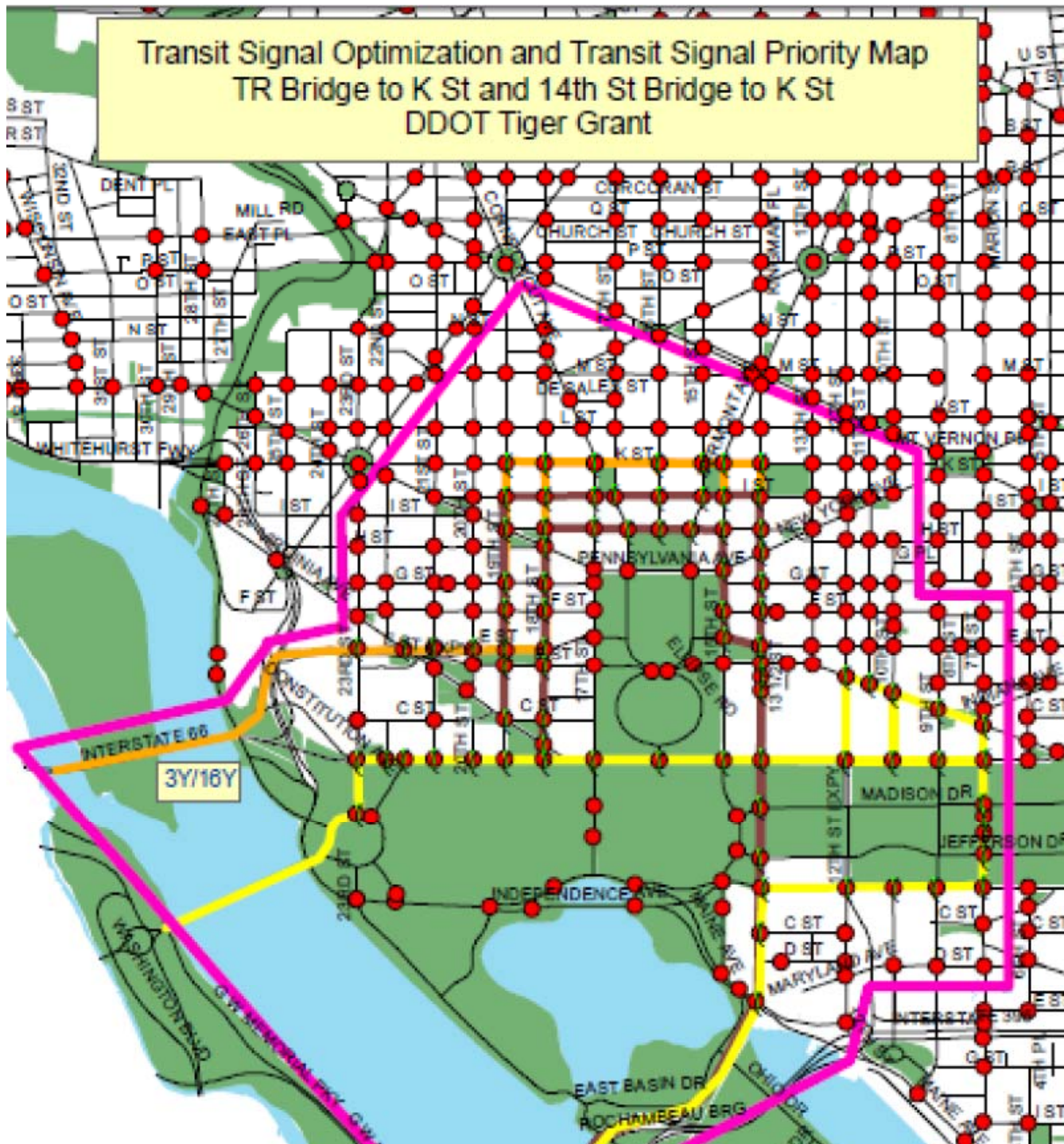
Completion, February 2012

TIGER Components

	Priority Arterial Corridors
	1 16th St, Downtown to Wheaton
DC	2 Georgia Ave from Archives to Silver Spring
	3 H St / Benning Road, Minn. Ave to Franklin Sq.
	4 Wisconsin Ave, Naylor Rd to Friendship Heights
MD	5 Addison Rd, Southern Ave to Addison Rd station
	6 University Blvd, Bethesda to College Park
	7 US 1, Laurel to Rhode Island Ave. station
	8 Veirs Mill Rd, Shady Grove to Silver Spring
	9 US 1 Transitway, Potomac Yard
VA	10 VA 7, Alexandria to Tysons Corner
	11 Van Dorn-Pentagon, via Shirlington

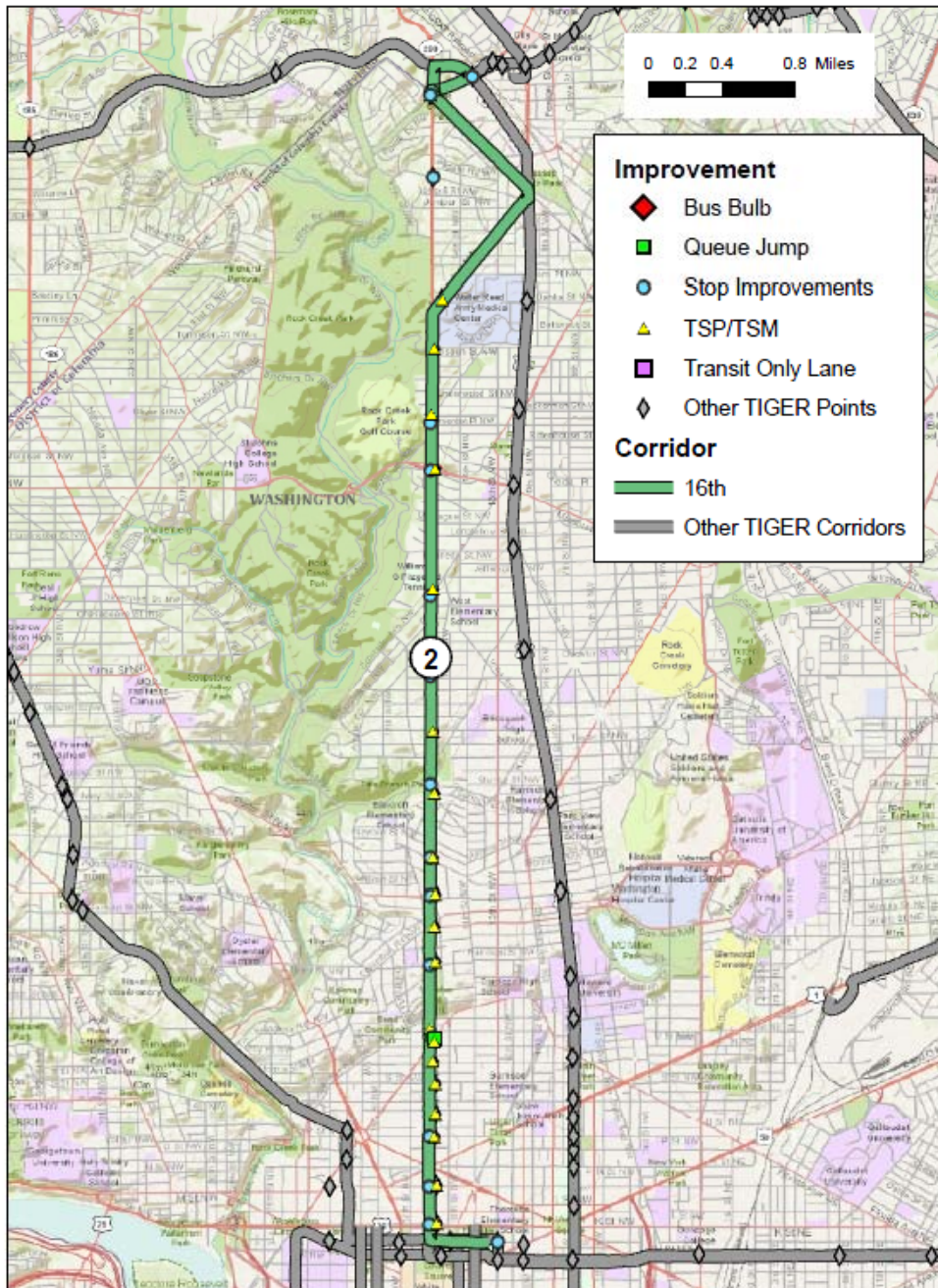
- ⋯⋯⋯ **Express Bus on Bridges and Arterials**
 - 12 Theodore Roosevelt Bridge, I-66 to K Street
 - 13 14th St Bridge, I-395 to K Street
- ⋯⋯⋯ **Express Bus on Freeways**
 - 14 I-95/395, Pentagon to Dale City
-  **Transit Center Projects**
-  **Existing Metrorail**
-  **Bus/Rail Transfers**





- ## Signal Optimization:
- 14th Street Bridge to K Street
 - TR Bridge to K Street
- Just under \$3M

Metrobus TIGER Projects Corridor 2: S-Line - 16th Street NW



Transit Signal Priority (TSP):

- 16th Street (6)
- Wisconsin Avenue (5)
- University Blvd (20)
- US 1 - MD (7)
- Van Dorn Rapid Bus (8)
- 14th Street Bridge to K Street (58)
- TR Bridge to K Street (24)

Approximately \$5.8M,
including equipping buses

TIGER – Next Steps

- Finalize and sign grant agreement between FTA and COG
 - TIGER has additional terms and conditions beyond standard FTA grants
 - Scopes, budgets, and schedules must be approved by FTA.
- Subgrantee Agreements between COG and five project owners to establish roles and responsibilities of all parties
- COG to procure consultant services for project management.
 - Project implementation/monitoring
 - Grant compliance/reporting activities

Priority Bus Implementation Guidelines

Project Overview

- Provide information about bus priority treatments that can be applied to improve bus operations.

Objectives of the Project

- ▶ Develop a set of bus priority implementation guidelines as a common reference for the region
 - In support of WMATA PCN, TIGER, and other bus priority and/or BRT implementations
- ▶ Collect and disseminate information on feasible bus priority strategies
- ▶ Foster coordination between transit operators and roadway owners / traffic agencies

Priority Bus Treatments

- ▶ Running Way
 - On Street Exclusive Bus Lane
 - Lane Operations
 - Lane Vehicle Restrictions
 - Lane Markings
 - Mixed Traffic Bus Lane
- ▶ Bus Stops
 - Stop Location
 - Stop Design
 - Bus Bays
 - Bus Bulbs/Nubs

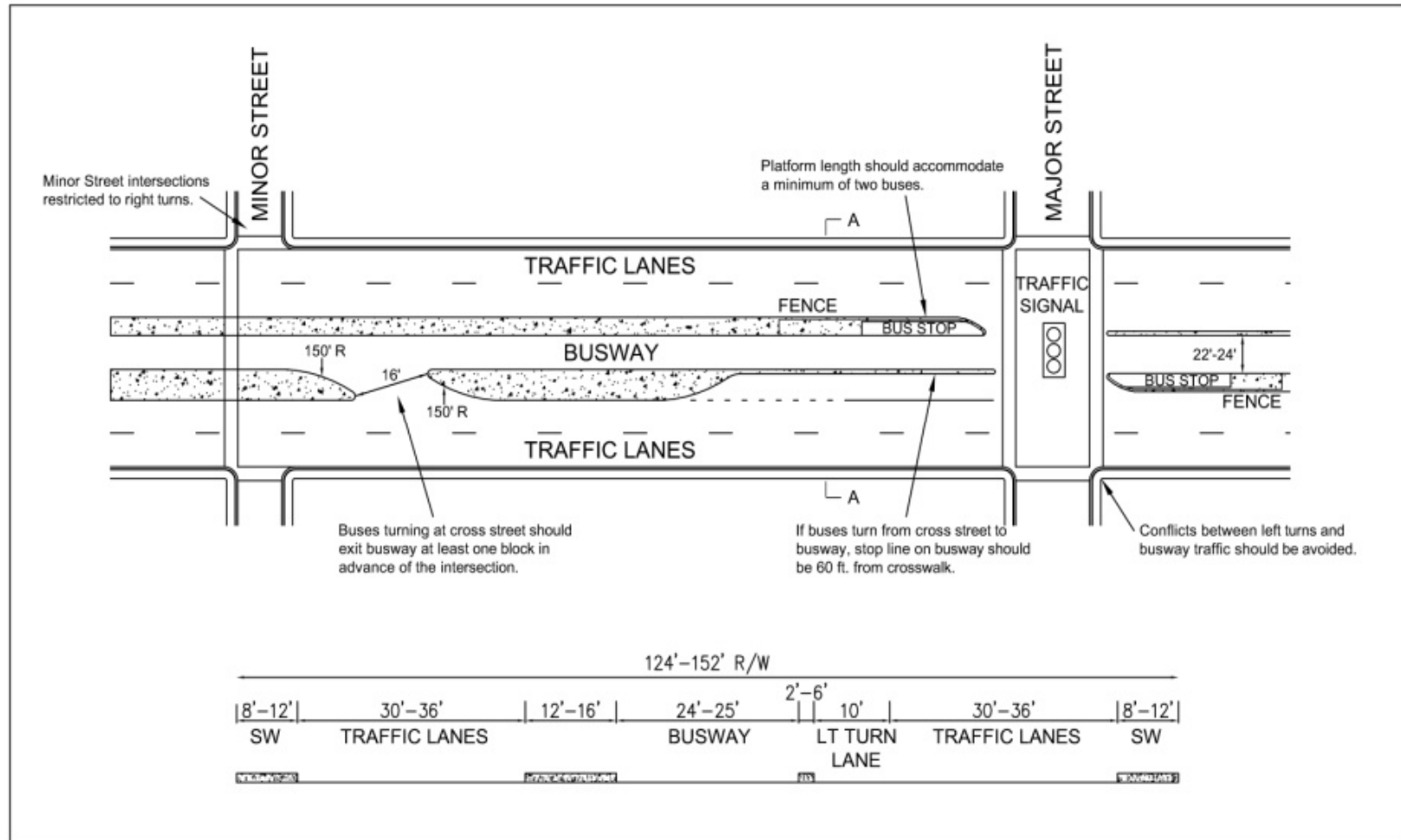
Priority Bus Treatments (2)

- ▶ Intersections
 - Crosswalks
 - Transit Signal Priority
 - Passive Signal Priority
 - Active Signal Priority
 - Queue Jumps
- ▶ Sidewalks
 - Width
 - Length
 - Height
- ▶ Shelters

Concepts – Photos and Description



Concept Diagrams



Progress / Next Steps

- ▶ VHB is the consultant for the project
- ▶ Draft Guidelines document now available
- ▶ Currently arranging meetings with local and regional traffic engineers to get input
- ▶ Publish a final report covering bus priority treatment options and local potential