

**UNITED STATES OF AMERICA
DEPARTMENT OF TRANSPORTATION
FEDERAL TRANSIT ADMINISTRATION**

MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding (MOU) is entered into by the **Metropolitan Washington Council of Governments**, acting as the administrative agent of the National Capital Region Transportation Planning Board, the official Metropolitan Planning Organization for the Washington, DC, metropolitan area, and the United States of America, acting through the United States Department of Transportation, Federal Transit Administration (FTA or Government) based on the selection of **Priority Bus Transit in the National Capital Region** for Federal assistance under the Transportation Investment Generating Economic Recovery (TIGER) Grants program authorized by the American Recovery and Reinvestment Act of 2009, Public Law 111-5, in an amount not to exceed **\$ 58,838,000**.

WHEREAS, the Project Sponsor, in anticipation of a grant award under the TIGER Grant Program, agrees to administer any such grant to be signed by it and the Government for the Project pursuant to the terms and conditions set forth in the grant agreement and in accordance with the Statement of Work, Project Cost Estimate, Project Schedule, Capital Finance Plan, and Operating Finance Plan set forth herein.

WHEREAS, the Project Sponsor, at its own risk, may incur eligible capital expenses before a grant award is issued for the Project (automatic pre-award authority) only if (1) FTA has approved the document (ROD, FONSI, or CE determination) that completes the environmental review process required by the National Environmental Policy Act (NEPA) and its implementing regulations; (2) the Project is included in the Metropolitan Transportation Improvement Program, Statewide Transportation Improvement Program, and the Long Range Plan, as appropriate; and (3) the Project Sponsor and the Government have executed this MOU. As with all pre-award authority, all Federal requirements must be met prior to incurring costs in order to retain eligibility for Federal grant assistance.

WHEREAS, the Project Sponsor or the Government may seek to amend or modify this MOU prior to grant award by written notice to the other party. The MOU will be amended or modified only on mutual agreement by the Project Sponsor and the Government.

WHEREAS, the Government reserves the right to terminate this MOU if the Project Sponsor does not enter into a grant agreement on or before **March 31, 2011** or the Government determines that termination is in the public interest.

WHEREAS, this MOU will be effective upon the execution of Project Sponsor and the Government.

WHEREAS, the Project Sponsor understands and acknowledges that the Government has established a deadline for entering into this MOU of no later than May 19, 2010.

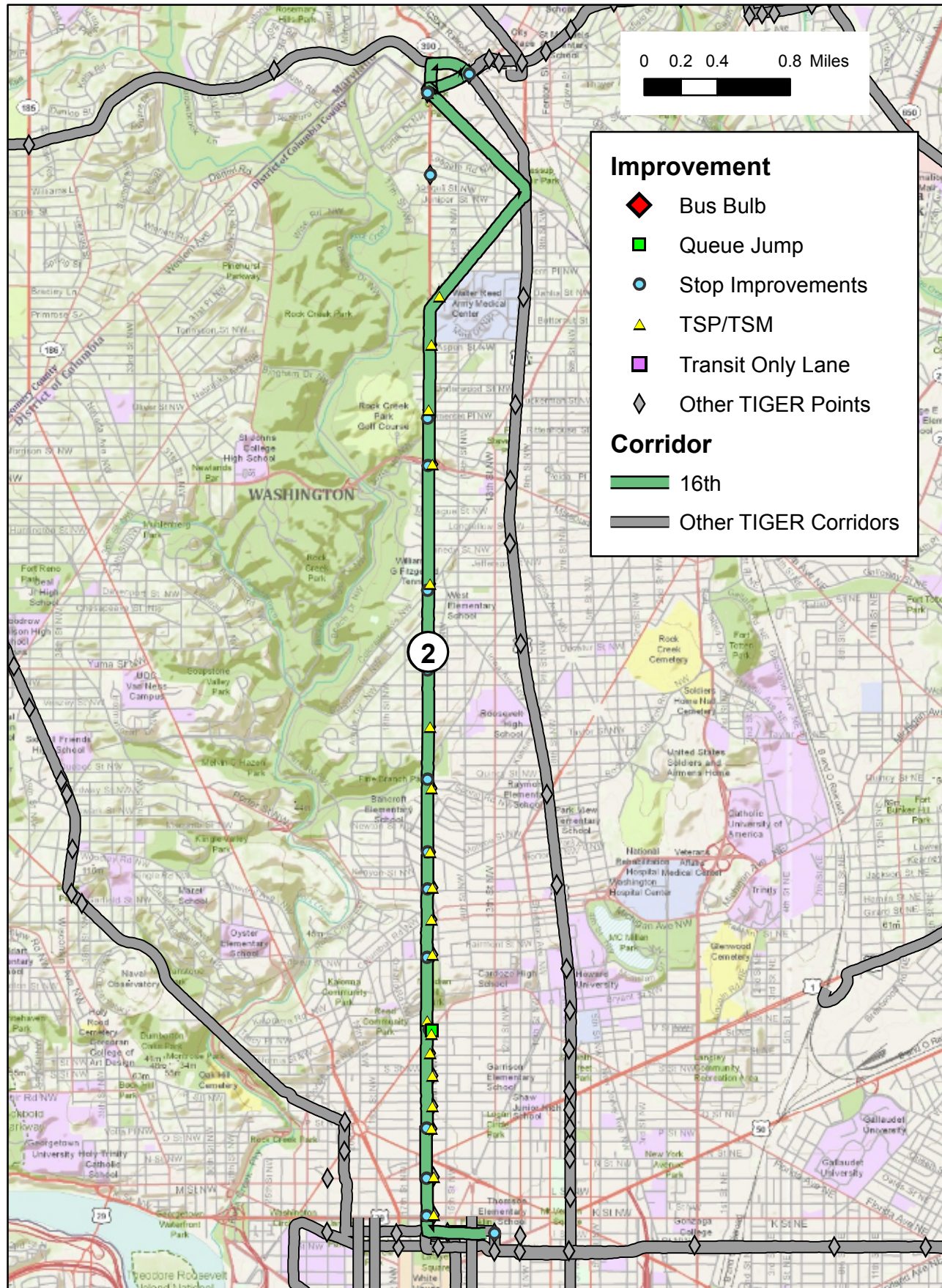
The **Priority Bus Transit in the National Capital Region** program contains sixteen (16) separate projects spread throughout the Washington, DC metropolitan area in the District of Columbia, Virginia and Maryland. Individual Statements of Work, Project Budgets, Project Schedules and Sources of Funding follow.

Summary of **Priority Bus Transit in the National Capital Region** program

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

Metrobus TIGER Projects

Corridor 2: S-Line - 16th Street NW

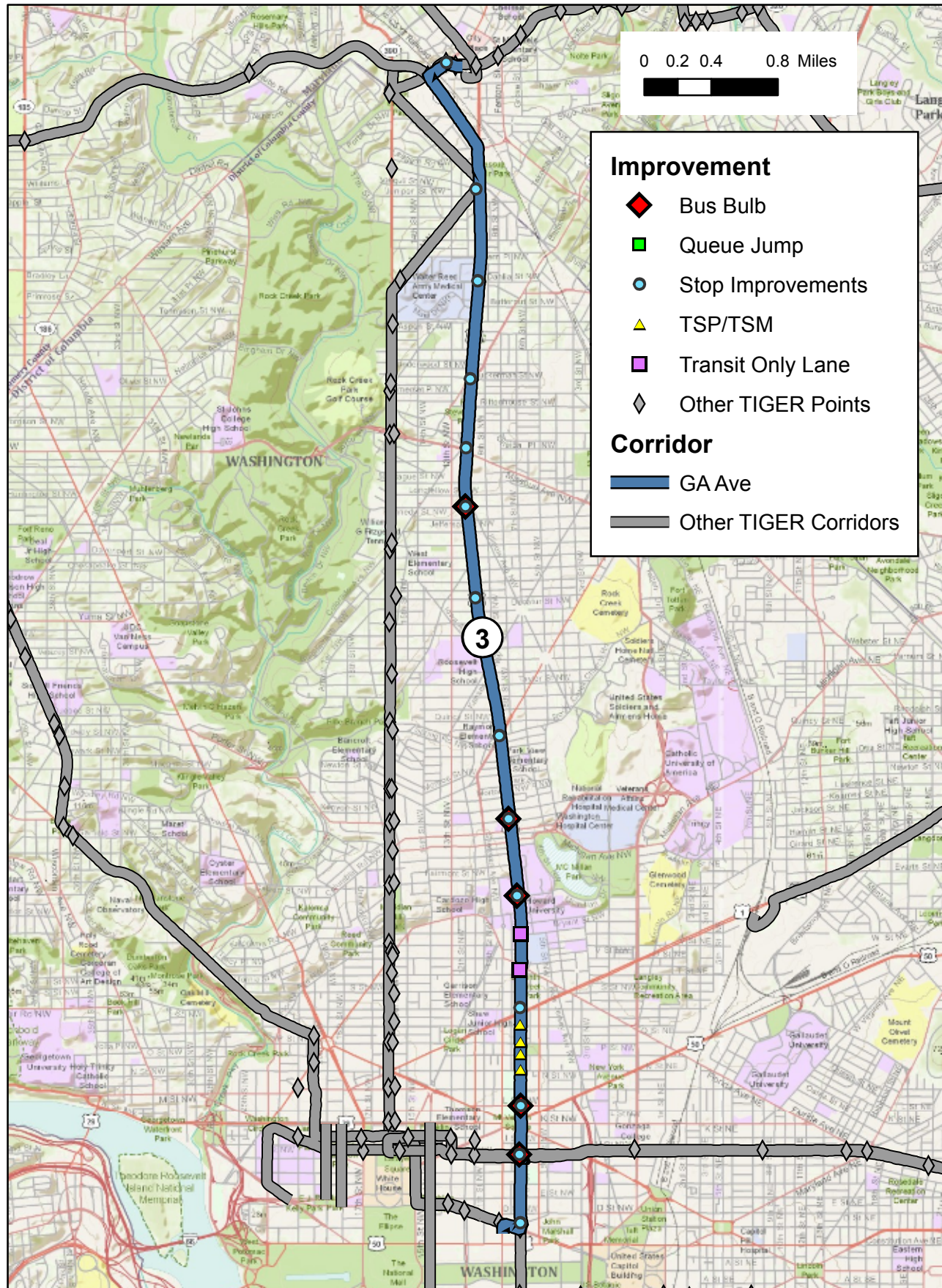


Projects funded through Transportation Investments Generating Economic Recovery (TIGER) federal grant program.

			Budget	Jun-10	Jul-10	Aug-10	Sep-10	Oct-10	Nov-10	Dec-10	Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11	Jan-12
1.0	16th Street Real-time Bus Information		\$316,000																				
		This project will provide real-time transit service information to users at 30 locations along the corridor. Additional information useful to riders includes: service disruptions or delays, public safety announcements, public service announcements, and upcoming service changes. Note: DDOT has an existing contract that provides for the installation of shelters, including an electrical power supply to operate NextBus equipment, as one task order. Location (# of shelters)																					
1.1	Silver Spring Metro Station (1)																						
	Next Bus Information Display (Express bus bay)	DDOT	\$10,000																				
1.2	Eastern Avenue (2)																						
	Next Bus Information Display	DDOT	\$20,000																				
1.3	Kalmia Road (2)																						
	Next Bus Information Display	DDOT	\$20,000																				
1.4	Sheridan Street (SB) and Somerset Plance (NB) (2)																						
	Next Bus Information Display	DDOT	\$20,000																				
1.5	Missouri Avenue (2)																						
	Next Bus Information Display (Express bus bay)	DDOT	\$20,000																				
1.6	Colorado Avenue (2)																						
	Next Bus Information Display	DDOT	\$20,000																				
1.7	Buchanan Street (2)																						
	Next Bus Information Display	DDOT	\$20,000																				
1.8	Spring Road (NB) (1)																						
	Next Bus Information Display	DDOT	\$10,000																				
1.9	Park Road (2)																						
	Next Bus Information Display	DDOT	\$20,000																				
1.10	Irving Street/Columbia Road (2)																						
	Next Bus Information Display	DDOT	\$20,000																				
1.11	Euclid Street (2)																						
	Next Bus Information Display	DDOT	\$20,000																				
1.12	U Street (2)																						
	Next Bus Information Display	DDOT	\$20,000																				
1.13	P Street (2)																						
	Next Bus Information Display	DDOT	\$20,000																				
1.14	M Street (2)																						
	Next Bus Information Display	DDOT	\$20,000																				
1.15	K Street (2)																						
	Next Bus Information Display	DDOT	\$20,000																				
1.16	McPherson Square (I Street between 13th and 14th) (2)																						
	Next Bus Information Display (Express bus bay)	DDOT	\$10,000																				
1.17	All stop locations																						
	1.17a New Information cases	WMATA	\$10,000																				
	1.17b New Schedules	WMATA	\$8,000																				
	1.17c New System Maps	WMATA	\$8,000																				
2.0	Real Time Bus Information Prototype Development		\$414,000																				
		This project will develop the software and hardware requirements needed for DDOT to successfully manage the data feeding the real-time bus information facilities in bus shelters. The project will incorporate bus service data from all jurisdictions along the corridor and is necessary in order to provide users with information above and beyond WMATA service including service provided by DC Circulator, Maryland Transit Administration commuter buses, and other jurisdictional transit services that cross into the District. NextBus service alone will provide the bare minimum of usefulness to users, but this project element will fully enhance the user experience and is adaptable to future growth and technology.																					
2.1	Define technology and technical requirements	DDOT	\$50,000																				
2.2	Procure software and hardware, begin testing	DDOT	\$182,000																				
2.3	Complete testing and implement service	DDOT	\$182,000																				
3.0	16th Street Transit Signal Priority		\$400,000																				
		This project is a partnership between DDOT and WMATA designed to enhance bus movement along the corridor. DDOT will invest in signal and signal systems upgrades and WMATA will invest in bus-based equipment designed to interact with DDOT signal system infrastructure. DDOT will be able to upgrade up to 6 intersections and WMATA will be able to install TSP equipment on up to 14 buses.																					
3.1	RFP Development and Consultant Selection	DDOT/WMATA	\$5,000																				
	3.1a Acceptance Testing and Approvals	Consultant	\$1,000																				
	3.1b Design Specifications	Consultant	\$1,000																				
	3.1c Performance Specifications	Consultant	\$2,000																				
3.2	Agency Coordination																						
	3.2a Agency Coordination	Consultant	\$4,000																				
	3.2b Stakeholder Workshop	WMATA	\$4,000																				
	3.2c Intergovernmental Agreements/Memorandums of Understanding	WMATA/DDOT	\$4,000																				
3.3	Signal System Design																						
	3.3a Preliminary Scoping of Intersections	DDOT	\$1,500																				
	3.3b Field Review for System Requirements	DDOT	\$5,000																				
	3.3c Scope Refinement	Consultant	\$1,500																				
	3.3d Existing Signal Timing Review	Consultant	\$2,500																				
	3.3e TSP Timing Development	Consultant	\$7,500																				
	3.3f TSP Detection Setting Development	Consultant	\$5,000																				
	3.3g Intersection Device Design Drawings	Consultant	\$12,000																				
3.4	Procurement from Vendor(s)																						
	3.4a Construction Details	Consultant	\$9,000																				
	3.4b Design Specifications	Consultant	\$3,500																				
	3.4c Equipment Delivery	Consultant	\$1,500																				
3.5	Installation																						
	3.5a Construction Management	Consultant	\$6,000																				
	3.5b Vendor System Design	Consultant	\$1,500																				
	3.5c Signal System Equipment Upgrades	Vendor	\$134,000																				
	3.5d Transit Vehicle Equipment Upgrades	Vendor	\$100,000																				
	3.5e Timings Deployment	DDOT	\$5,000																				
	3.5f System Integration Testing	Consultant	\$10,000																				
	3.5g System Acceptance Testing	Consultant	\$10,000																				
	3.5h Complete System Installation	Vendor	\$6,000																				
3.6	Performance Evaluation																						
	3.6a Develop Performance Metrics	Consultant	\$4,000																				
	3.6b Before Data Collection	Consultant	\$7,500																				
	3.6c After Data Collection	Consultant	\$7,500																				
	3.6d Data Analysis and Reporting	Consultant	\$15,000																				
3.7	Documentation																						
	3.7a Signal System Design Tech memo	Consultant	\$5,000																				
	3.7b Performance Evaluation Tech memo	Consultant	\$5,000																				
	3.7c System Deployment Tech memo	Consultant	\$5,000																				
	3.7d Final Report	Consultant	\$6,000																				
	3.7e Lessons Learned	Consultant	\$2,500																				
4.0	16th Street Curb Extensions		\$165,000																				
		This project will increase the amount of space available to riders boarding or alighting buses. Many locations are restricted and meet minimum space clearance requirements. Improvement locations will be prioritized based on ridership and transfer information as well as constructability factors. A sample site plan is included in the scope.																					
4.1	Site Analysis / Design	WMATA/DDOT	\$25,000																				
4.2	Installation (up to 5 curb extensions)	DDOT	\$140,000																				
TOTAL TIGER GRANT AWARD - 16TH ST NW BUS PRIORITY IMPROVEMENTS			\$1,295,000																				

Metrobus TIGER Projects

Corridor 3: 70s Line - Georgia Ave

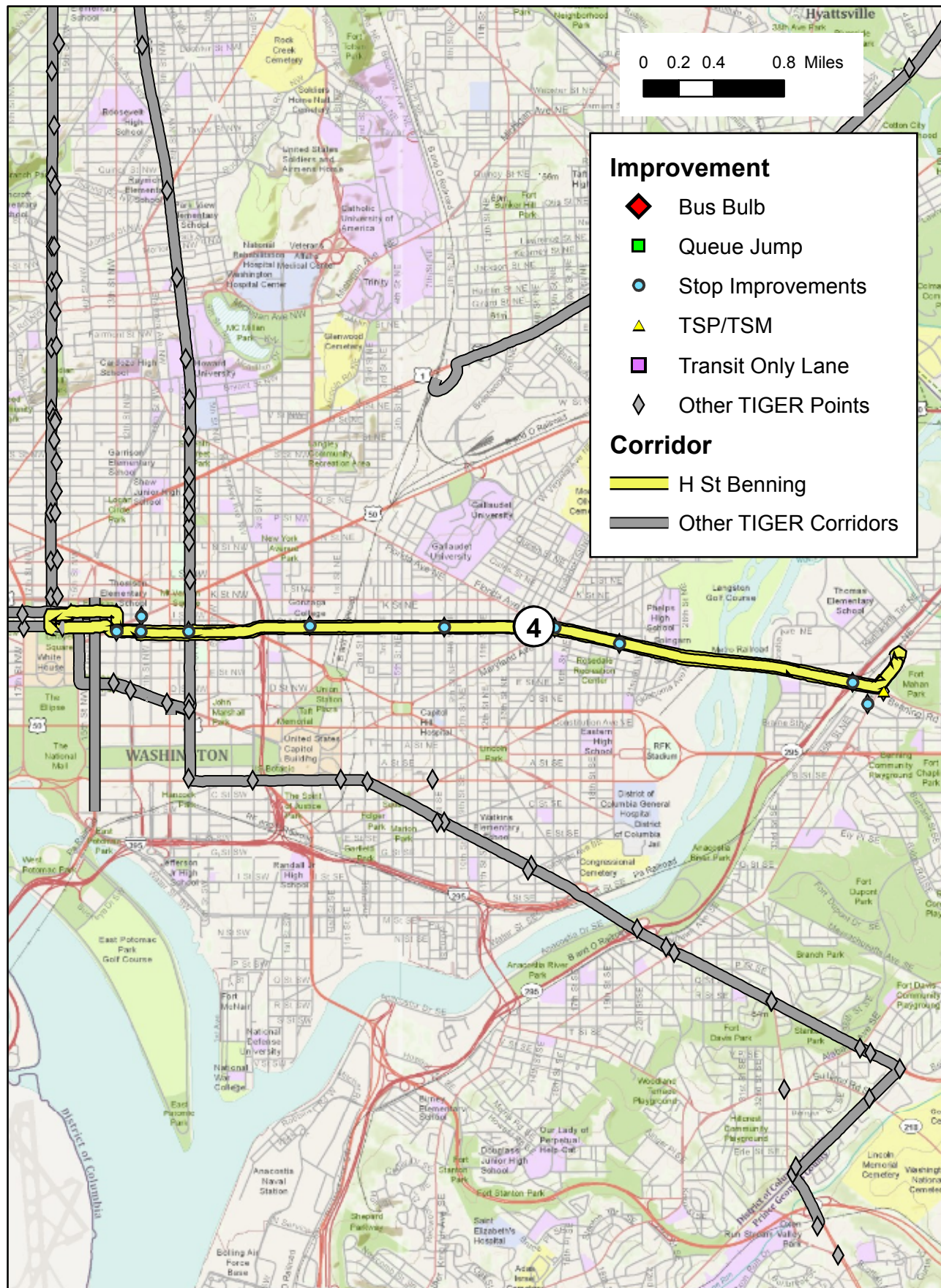


Projects funded through Transportation Investments Generating Economic Recovery (TIGER) federal grant program.

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Metrobus TIGER Projects

Corridor 4: Xs Line - H Street / Benning Road

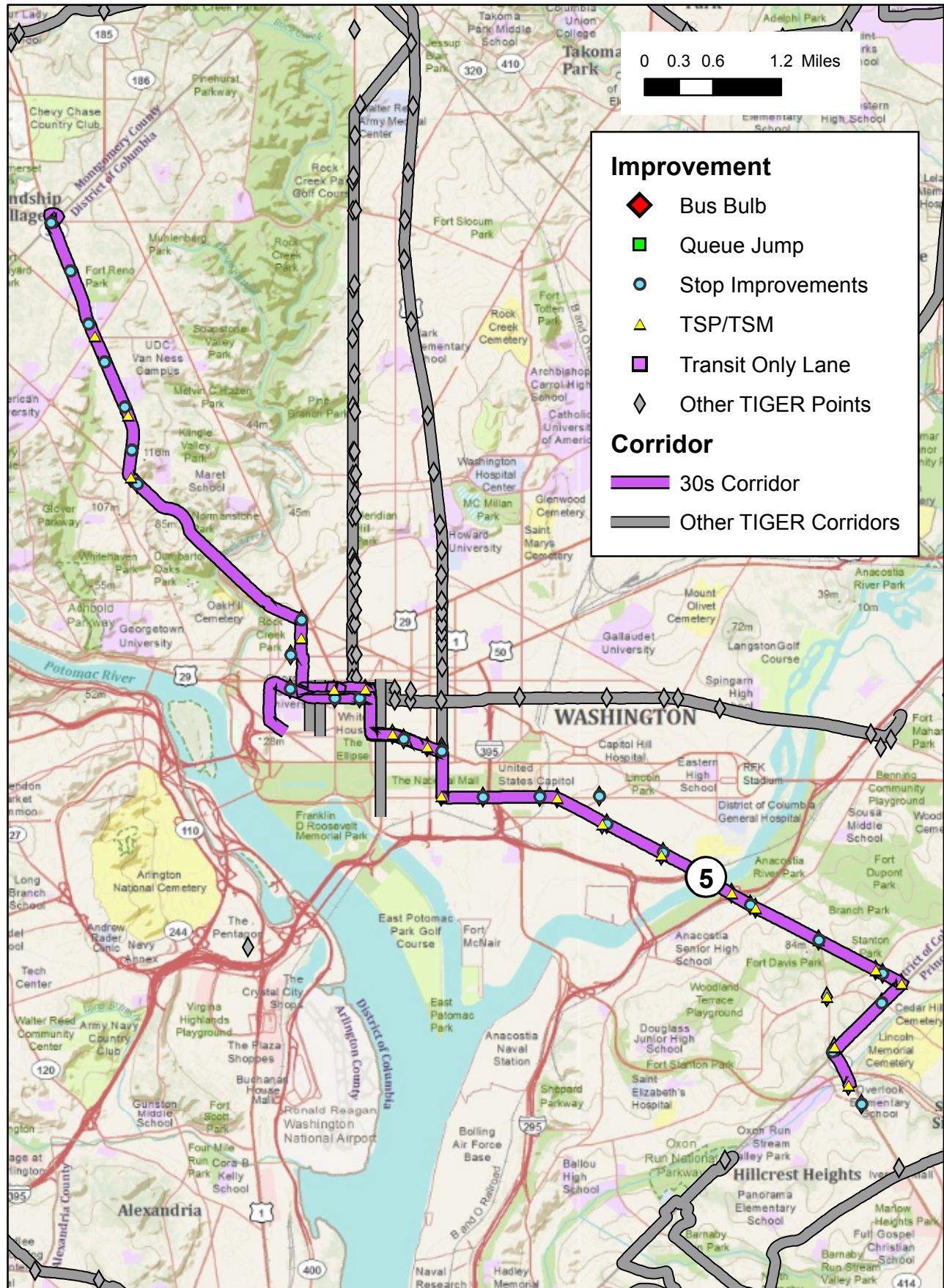


Projects funded through Transportation Investments Generating Economic Recovery (TIGER) federal grant program.

				Budget	Jun-10	Jul-10	Aug-10	Sep-10	Oct-10	Nov-10	Dec-10	Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11	Oct-11	
1.0 H Street/Benning Road Real-time Bus Information					\$280,000																	
This project will provide real-time transit service information to users at 28 locations along the corridor. Additional information useful to riders includes: service disruptions or delays, public safety announcements, public service announcements, and upcoming service changes. Note: DDOT has an existing contract that provides for the installation of shelters, including an electrical power supply to operate NextBus equipment, as one task order. Location (# of shelters)																						
1.1	13th Street NW/H Street NW (2)																					
	Next Bus Information Display	DDOT	\$20,000																			
1.2	11th Street NW/H Street NW (westbound service only) (1)																					
	Next Bus Information Display	DDOT	\$10,000																			
1.3	11th Street NW/New York Avenue NW (eastbound service only) (1)																					
	Next Bus Information Display	DDOT	\$10,000																			
1.4	7th Street NW/H Street NW (2)																					
	Next Bus Information Display	DDOT	\$20,000																			
1.5	H Street/North Capitol Street (2)																					
	Next Bus Information Display	DDOT	\$20,000																			
1.6	8th Street NE/H Street NE (2)																					
	Next Bus Information Display	DDOT	\$20,000																			
1.7	15th Street NE/Benning Road NE (2)																					
	Next Bus Information Display	DDOT	\$20,000																			
1.8	19th Street NE/Benning Road NE (2)																					
	Next Bus Information Display	DDOT	\$20,000																			
1.9	Benning Road NE/Minnesota Ave NE (2)																					
	Next Bus Information Display	DDOT	\$20,000																			
1.10	Minnesota Ave Metrorail Station (1)																					
	Next Bus Information Display (Express bus bay)	DDOT	\$10,000																			
1.11	44th Street NE/Nannie Helen Burroughs Ave NE (2)																					
	Next Bus Information Display	DDOT	\$20,000																			
1.12	49th Street NE/Nannie Helen Burroughs Ave NE (2)																					
	Next Bus Information Display	DDOT	\$20,000																			
1.13	Division NE/Nannie Helen Burroughs Ave NE (2)																					
	Next Bus Information Display	DDOT	\$20,000																			
1.14	58th Street NE/Foote Street NE (2)																					
	Next Bus Information Display	DDOT	\$20,000																			
1.15	62nd Street/Dix Street NE (2)																					
	Next Bus Information Display	DDOT	\$20,000																			
1.16	Capitol Heights Metrorail Station (1)																					
	Next Bus Information Display (Express bus bay)	DDOT	\$10,000																			
2.0 Emergency Call Boxes at Shelters along H St / Benning Ave					\$135,000																	
This project will provide riders with emergency call boxes at shelters along the corridor. This will improve public safety and provide additional sense of security for new and existing riders in up to 12 locations to be determined in the concept of operations stage and based on input from respective police agencies. DDOT/Metropolitan Police Department and WMATA will determine the best agency to respond to calls during the concept of operations stage since there is overlap in jurisdiction. This will include a MOU between the parties involved to ensure public safety is maintained and enhanced.																						
2.1	Establish concept of operations	DDOT/WMATA	\$10,000																			
2.2	Procure and Install boxes	DDOT/WMATA	\$110,000																			
2.3	Test and activate boxes	DDOT/WMATA	\$15,000																			
TOTAL TIGER GRANT AWARD - H ST / BENNING RD BUS PRIORITY IMPROVEMENTS					\$415,000																	

Metrobus TIGER Projects

Corridor 5: 30s Line - Wisconsin Ave / Pennsylvania Ave

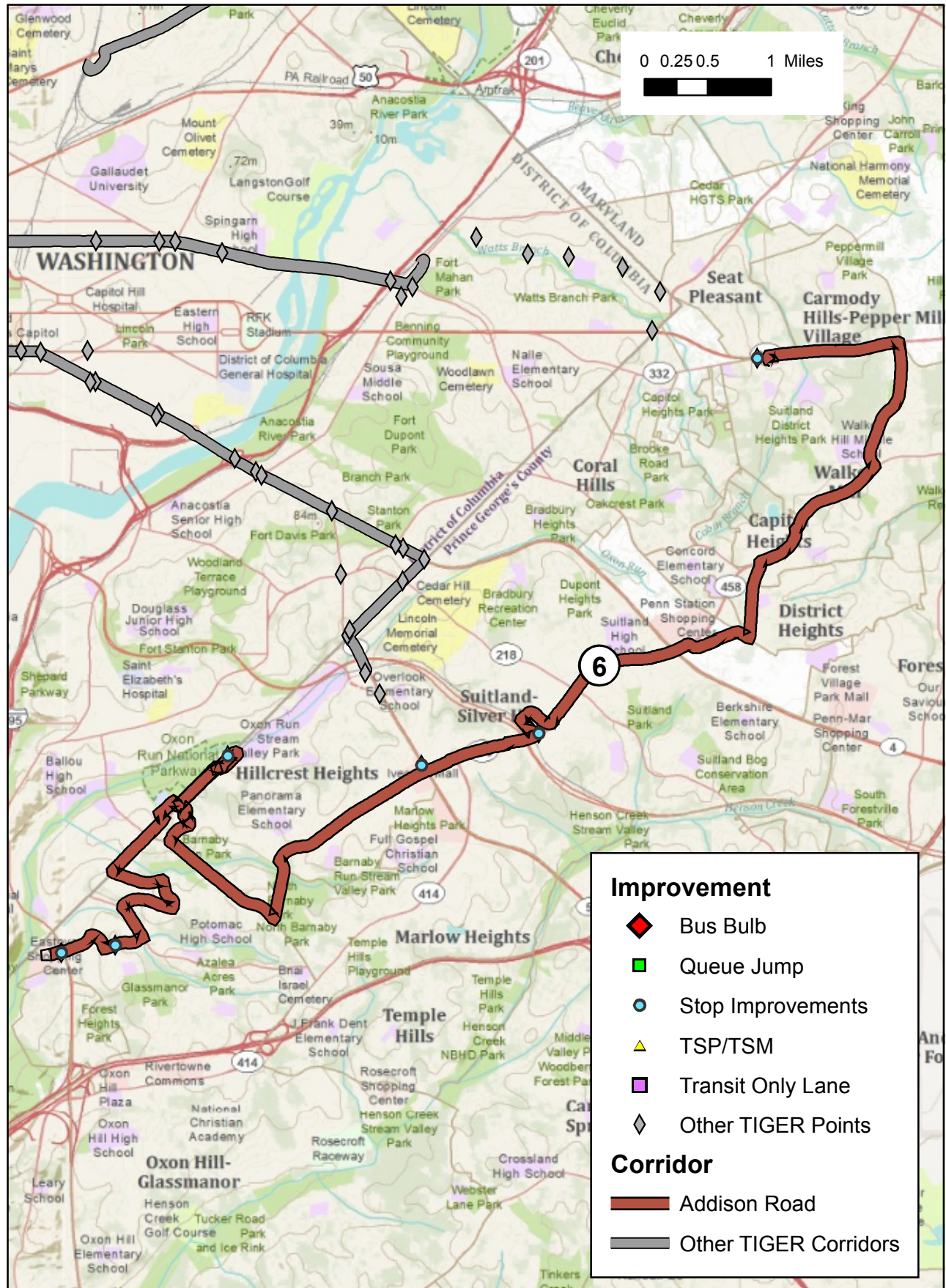


Projects funded through Transportation Investments Generating Economic Recovery (TIGER) federal grant program.

Wisconsin Avenue Real-time Bus Information			\$400,000	\$400,000	Jun-10	Jul-10	Aug-10	Sep-10	Oct-10	Nov-10	Dec-10	Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11	Jan-12
1.0	This project will provide real-time transit service information to users at 40 locations along the corridor. Additional information useful to riders includes: service disruptions or delays, public safety announcements, public service announcements, and upcoming service changes. Note: DDOT has an existing contract that provides for the installation of shelters, including an electrical power supply to operate NextBus equipment, as one task order. Location (# of shelters)																							
1.1	Friendship Heights Metro Station (1)	Next Bus Information Display (Express bus bay)	DDOT	\$10,000																				
1.2	Wisconsin Avenue/Fessenden St NW (2)	Next Bus Information Display	DDOT	\$20,000																				
1.3	Wisconsin Ave/Albemarle St. NW (Tenleytown-AU Station) (1)	Next Bus Information Display (Express bus bay)	DDOT	\$10,000																				
1.4	Wisconsin Ave./Van Ness St NW (2)	Next Bus Information Display	DDOT	\$20,000																				
1.5	Wisconsin Ave./Porter St. NW (1)	Next Bus Information Display	DDOT	\$10,000																				
1.6	Wisconsin Ave./Woodley Rd. NW (2)	Next Bus Information Display	DDOT	\$20,000																				
1.7	Massachusetts Ave./Garfield St. NW (2)	Next Bus Information Display	DDOT	\$20,000																				
1.8	Massachusetts Ave./20th St. NW (Dupont Circle Station) (1)	Next Bus Information Display (Express bus bay)	DDOT	\$10,000																				
1.9	21st St/M St NW (2)	Next Bus Information Display	DDOT	\$20,000																				
1.10	south-Pennsylvania Ave./21st NW ; north-/19th St NW (2)	Next Bus Information Display	DDOT	\$20,000																				
1.11	south-H St/17th St. NW ; north-/17th St NW (2)	Next Bus Information Display	DDOT	\$20,000																				
1.12	south-H St/Madison PL NW ; north-/15th St. NW (2)	Next Bus Information Display	DDOT	\$20,000																				
1.13	Pennsylvania Ave./12th St NW (Federal Triangle Station) (1)	Next Bus Information Display (Express bus bay)	DDOT	\$10,000																				
1.14	Pennsylvania Ave./7th St. NW (Archives-Navy Mem'l Penn Station) (1)	Next Bus Information Display (Express bus bay)	DDOT	\$10,000																				
1.15	7th St/Independence Ave SW (2)	Next Bus Information Display	DDOT	\$20,000																				
1.16	Independence Ave/3rd St SW (2)	Next Bus Information Display	DDOT	\$20,000																				
1.17	Independence Ave/1st ST SE (2)	Next Bus Information Display	DDOT	\$20,000																				
1.18	Pennsylvania Ave/8th St SE (Eastern Market station) (1)	Next Bus Information Display (Express bus bay)	DDOT	\$10,000																				
1.19	Pennsylvania Ave/Potomac Ave SE (Potomac Ave station) (1)	Next Bus Information Display (Express bus bay)	DDOT	\$10,000																				
1.20	Pennsylvania Ave/Minnesota Ave SE (L'Enfant Square station) (1)	Next Bus information Display (Express bus bay)	DDOT	\$10,000																				
1.21	Pennslvania Ave/Branch Ave SE (2)	Next Bus Information Display	DDOT	\$20,000																				
1.22	Pennsylvania Ave/Fort Davis St/Alabama Ave SE (2)	Next Bus Information Display	DDOT	\$20,000																				
1.23	Southern Ave/Suitland Rd SE (2)	Next Bus Information Display	DDOT	\$20,000																				
1.24	Branch Ave/Southern Ave (2)	Next Bus Information Display	DDOT	\$20,000																				
1.25	Naylor Road Metro Station (1)	Next Bus Information Display (Express bus bay)	DDOT	\$10,000																				
2.0	Wisconsin Ave Transit Signal Priority			\$345,000																				
2.1	This project is a partnership between DDOT and WMATA designed to enhance bus movement along the corridor. DDOT will invest in signal and signal systems upgrades and WMATA will invest in bus-based equipment designed to interact with DDOT signal system infrastructure. DDOT will be able to upgrade up to 5 intersections and WMATA will be able to install TSP equipment on up to 12 buses.																							
2.1	RFP Development and Consultant Selection	DDOT/WMATA	\$7,000																					
2.1a	Acceptance Testing and Approvals	Consultant/DDOT	\$8,500																					
2.1b	Design Specifications	Consultant/DDOT	\$4,500																					
2.1c	Performance Specifications	Consultant/DDOT	\$1,500																					
2.2	Agency Coordination																							
2.2a	Agency Coordination	Consultant	\$3,500																					
2.2b	Stakeholder Workshop	WMATA/Consultant	\$3,500																					
2.2c	Intergovernmental Agreements/Memorandums of Understanding	WMATA/DDOT	\$3,500																					
2.3	Signal System Design																							
2.3a	Preliminary Scoping of Intersections	DDOT	\$1,500																					
2.3b	Field Review for System Requirements	DDOT	\$4,500																					
2.3c	Scope Refinement	Consultant/DDOT	\$1,500																					
2.3d	Existing Signal Timing Review	Consultant/DDOT	\$2,000																					
2.3e	TSP Timing Development	Consultant/DDOT	\$6,500																					
2.3f	TSP Detection Setting Development	Consultant/DDOT	\$4,500																					
2.3g	Intersection Device Design Drawings	Consultant/DDOT	\$8,500																					
2.4	Procurement from Vendor(s)																							
2.4a	Construction Details	Consultant/DDOT	\$7,500																					
2.4b	Design Specifications	Consultant/DDOT	\$3,000																					
2.4c	Equipment Delivery	Consultant	\$1,200																					
2.5	Installation																							
2.5a	Construction Management	Consultant/DDOT	\$5,000																					
2.5b	Vendor System Design	Consultant/DDOT	\$1,500																					
2.5c	Signal System Equipment Upgrades	Vendor/DDOT	\$116,550																					
2.5d	Transit Vehicle Equipment Upgrades	Vendor/WMATA	\$80,000																					
2.5e	Timings Deployment	DDOT	\$8,500																					
2.5f	System Intregation Testing	Consultant/DDOT	\$6,500																					
2.5g	System Acceptance Testing	Consultant/DDOT	\$6,500																					
2.5h	Complete System Installation	Vendor/DDOT	\$5,000																					
2.6	Performance Evaluation																							
2.6a	Develop Performance Metrics	Consultant	\$3,450																					
2.6b	Before Data Collection	Consultant	\$6,500																					
2.6c	After Data Collection	Consultant	\$6,500																					
2.6d	Data Analysis and Reporting	Consultant	\$6,900																					
2.7	Documentation																							
2.7a	Signal System Design Tech memo	Consultant	\$4,300																					
2.7b	Performance Evaluation Tech memo	Consultant	\$4,300																					
2.7c	System Deployment Tech memo	Consultant	\$4,300																					
2.7d	Final Report	Consultant	\$4,300																					
2.7e	Lessons Learned	Consultant	\$2,200																					
TOTAL TIGER GRANT AWARD - WISCONSIN AVE BUS PRIORITY IMPROVEMENTS				\$745,000																				

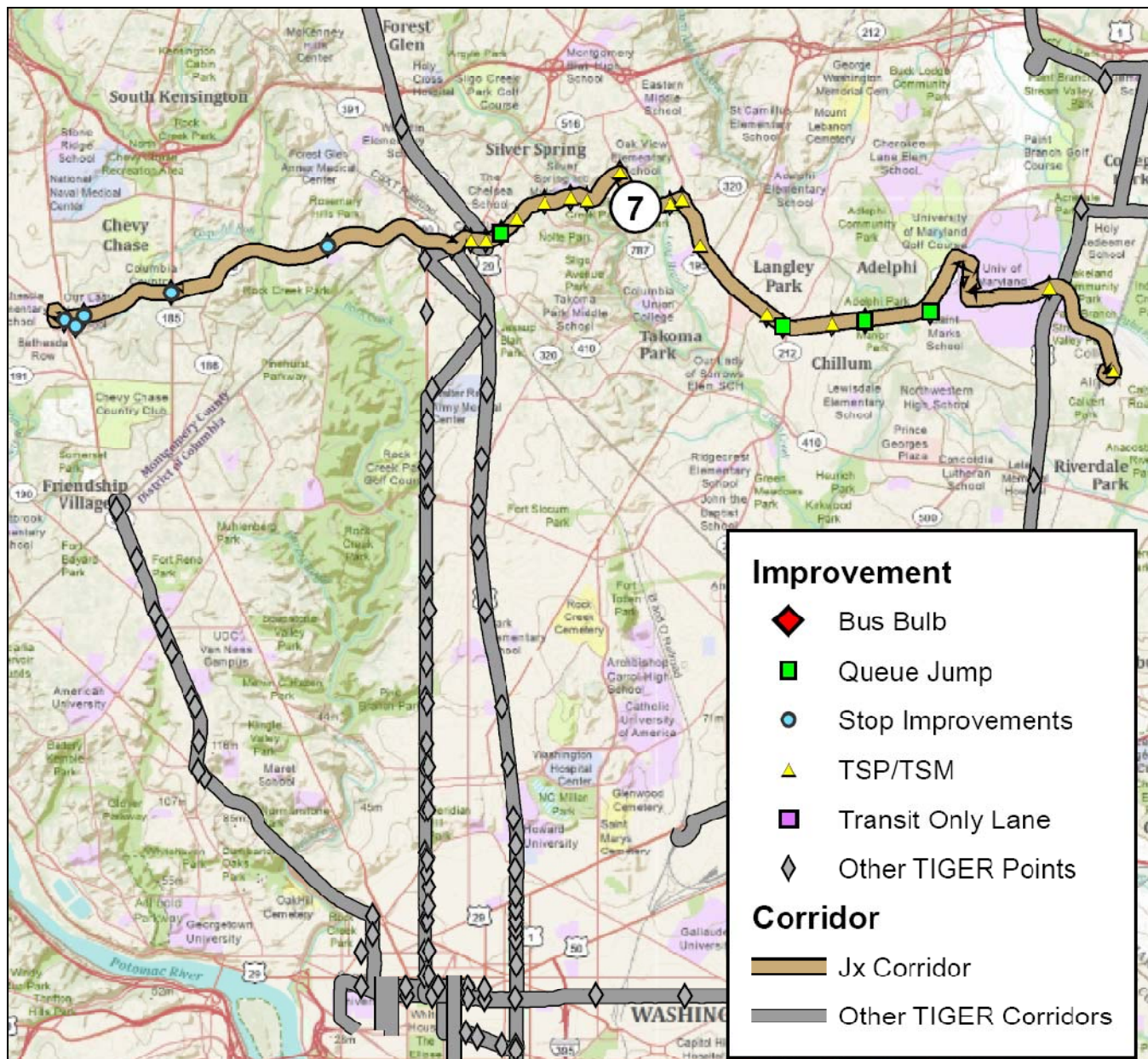
Metrobus TIGER Projects

Corridor 6: P12 Line - Addison Road



Projects funded through Transportation Investments Generating Economic Recovery (TIGER) federal grant program.

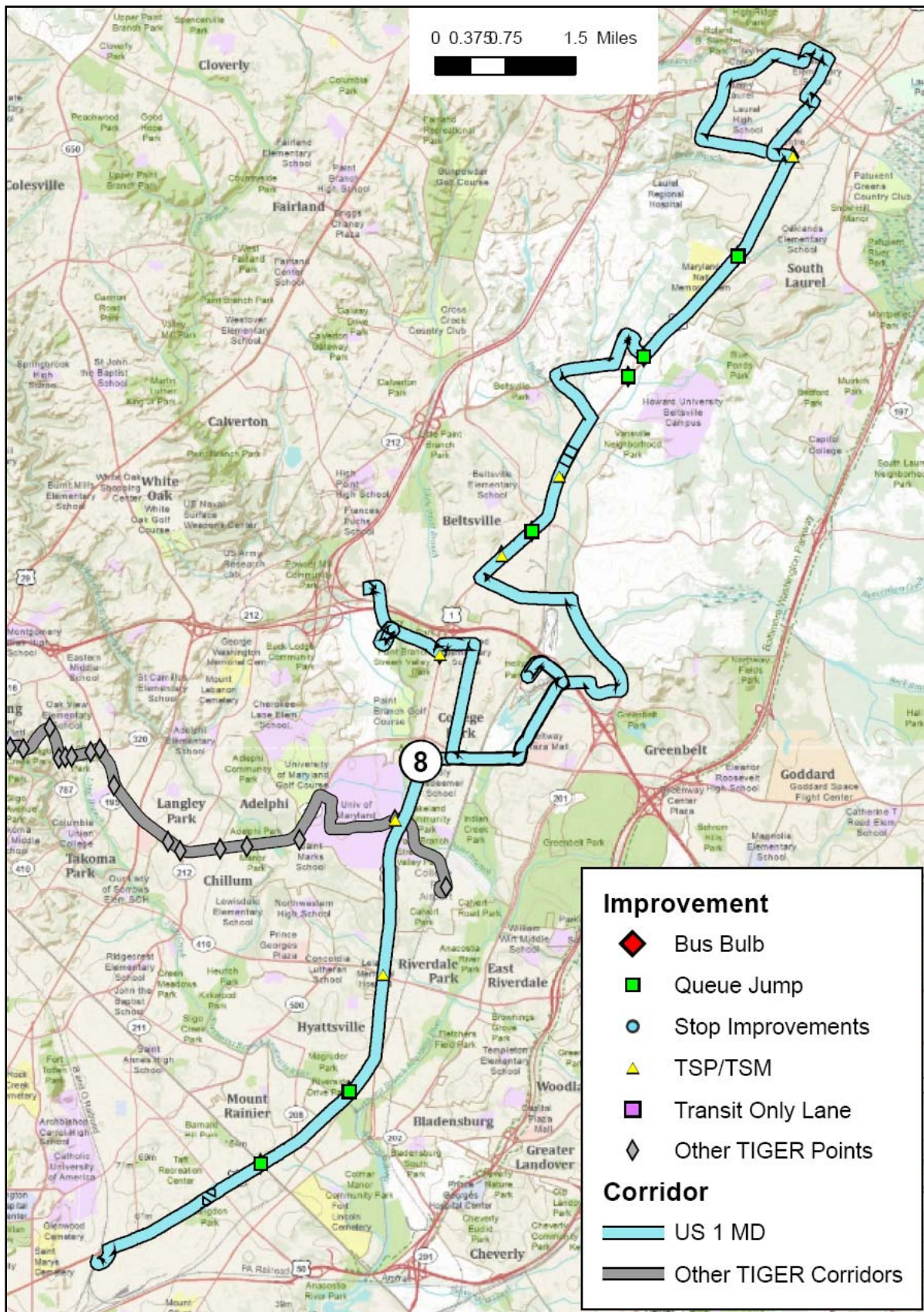
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University Boulevard Project Map:

MD TIGER Grant Project

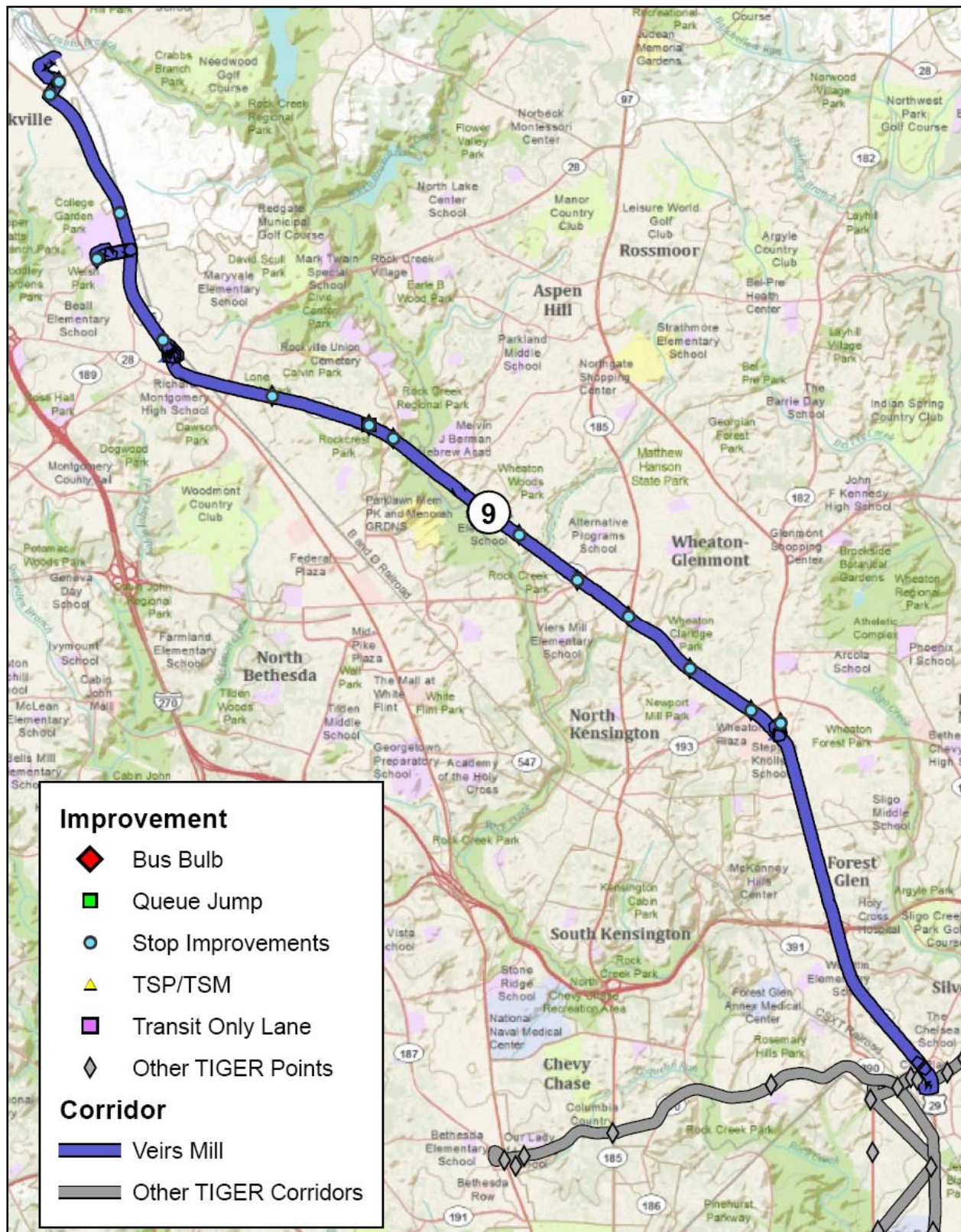
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US 1 Project Map:



MD TIGER Grant Project

Overall Tasks	Agency Lead	WMATA Budget	TIGER Budget	2010 MayJuneJulyAugSepOctNovDec	2011 JanFebMarAprMayJuneJulyAugSepOctNovDec	2012 JanFebMarAprMayJuneJulyAugSepOctNovDec	2013 JanFebMarAprMayJuneJulyAugSepOctNovDec	2014 JanFebMarAprMayJuneJulyAugSepOctNovDec	2015 JanFebMarAprMayJuneJulyAugSepOctNovDec
Project Management			\$37,445						
Reporting To COG (.5%) (SHA)	COG		\$28,855						
Project Management (WMATA)			\$8,590						
MOU Development/Establish administrative p	WMATA		\$0						
WMATA Board approval	WMATA		\$0						
Grant obligated	FTA		\$0						
Construction Administration (WMATA)			\$14,318						
Engineering/design (WMATA)			\$14,318						
Contingency Costs (WMATA)			\$1,579						
US Route 1 (MD) Transit Signal Priority (7 total) (\$220,000); Queue Jumps (6 locations) (\$517,340)									
US Route 1 (MD) Transit Signal Priority (7 total) (\$220,000);			\$220,000						
Vendor approvals	SHA		\$10,000						
Acceptance Testing and Approvals									
Design Specifications									
Performance Specifications									
Agency Coordination	WMATA	WMATA Cost							
Signal System Design									
Preliminary Scoping of Intersections	SHA		\$40,000						
Field Review for System Requirements									
Scope Refinement									
Existing Signal Timing Review									
TSP Timing Development									
TSP Detection Setting Development									
Intersection Device Design Drawings									
Timings Deployment									
Procurement									
Construction Details	SHA		\$20,000						
Design Specifications									
Equipment Delivery									
Installation									
Construction Management	SHA		\$150,000						
Signal System Equipment Upgrades									
Transit Vehicle Equipment Upgrades									
System acceptance Testing	WMATA								
System Intregation Testing									
Complete System Installation									
Performance Evaluation	WMATA Consultant	WMATA Cost							
Develop Performance Metrics									
Before Data Collection									
After Data Collection									
Data Analysis and Reporting									
Documentation									
Signal System Design Tech memo									
Peformance Evaluation Tech memo									
System Deployment Tech memo									
Final Report									
Lessons Learned									
US 1 Queue Jumps			\$517,340						
Contee Road			\$181,340						
Planning	WMATA Consultant	WMATA Cost							
Environmental Review	SHA		\$5,000						
Design	WMATA Consultant	WMATA Cost							
SHA Review	SHA		\$35,000						
SHA Project Management	(On-site construction ins	SHA	\$6,731						
Construction (Includes Utility Relocation)	reconstruct and minor	SHA	\$134,609						
Muirkirk Meadows Road			\$56,500						
Planning	WMATA Consultant	WMATA Cost							
Environmental Review	SHA		\$5,000						
Design	WMATA Consultant	WMATA Cost							
SHA Review	Review of Traffic Model	SHA	\$20,000						
SHA Project Management	(On-site construction ins	SHA	\$1,500						
Construction (Includes Utility Relocation)	Scope - Signal Modificat	SHA	\$30,000						
Ritz Way			\$10,250						
Planning	WMATA Consultant	WMATA Cost							
Environmental Review	SHA		\$0						
Design	WMATA Consultant	WMATA Cost							
SHA Review	Review of Signal Mod. D	SHA	\$5,000						
SHA Project Management	(On-site construction ins	SHA	\$250						
Construction (Includes Utility Relocation)	Scope-Minor Modificati	SHA	\$5,000						
Sellman Road			\$36,000						
Planning	WMATA Consultant								
Environmental Review	SHA		\$5,000						
Design	WMATA Consultant								
SHA Review	Review of Traffic Model	SHA	\$10,000						
SHA Project Management	(5%of Total Construction	SHA	\$1,000						
Construction (Includes Utility Relocation)	Scope - Signal Modificat	SHA	\$20,000						
41st Place			\$176,500						
Planning	WMATA Consultant	WMATA Cost							
Environmental Review	SHA		\$5,000						
Design	WMATA Consultant	WMATA Cost							
SHA Review	Review of signal plans	SHA	\$14,000						
SHA Project Management	(On-site construction ins	SHA	\$7,500						
Construction (Includes Utility Relocation)	Scope - Geometric	SHA							
Improvements on S leg			\$150,000						
Eastern Avenue			\$56,750						
Planning	WMATA Consultant	WMATA Cost							
Environmental Review	SHA		\$5,000						
Design	WMATA Consultant	WMATA Cost							
SHA Review	Review of Traffic Model	SHA	\$15,000						
SHA Project Management	(On-site construction ins	SHA	\$1,750						
Construction (Includes Utility Relocation)	Scope- Signal	SHA							
Modifications and			\$35,000						
Total Line Item Budget			\$805,000						
Total Available through TIGER Grant			\$805,000						

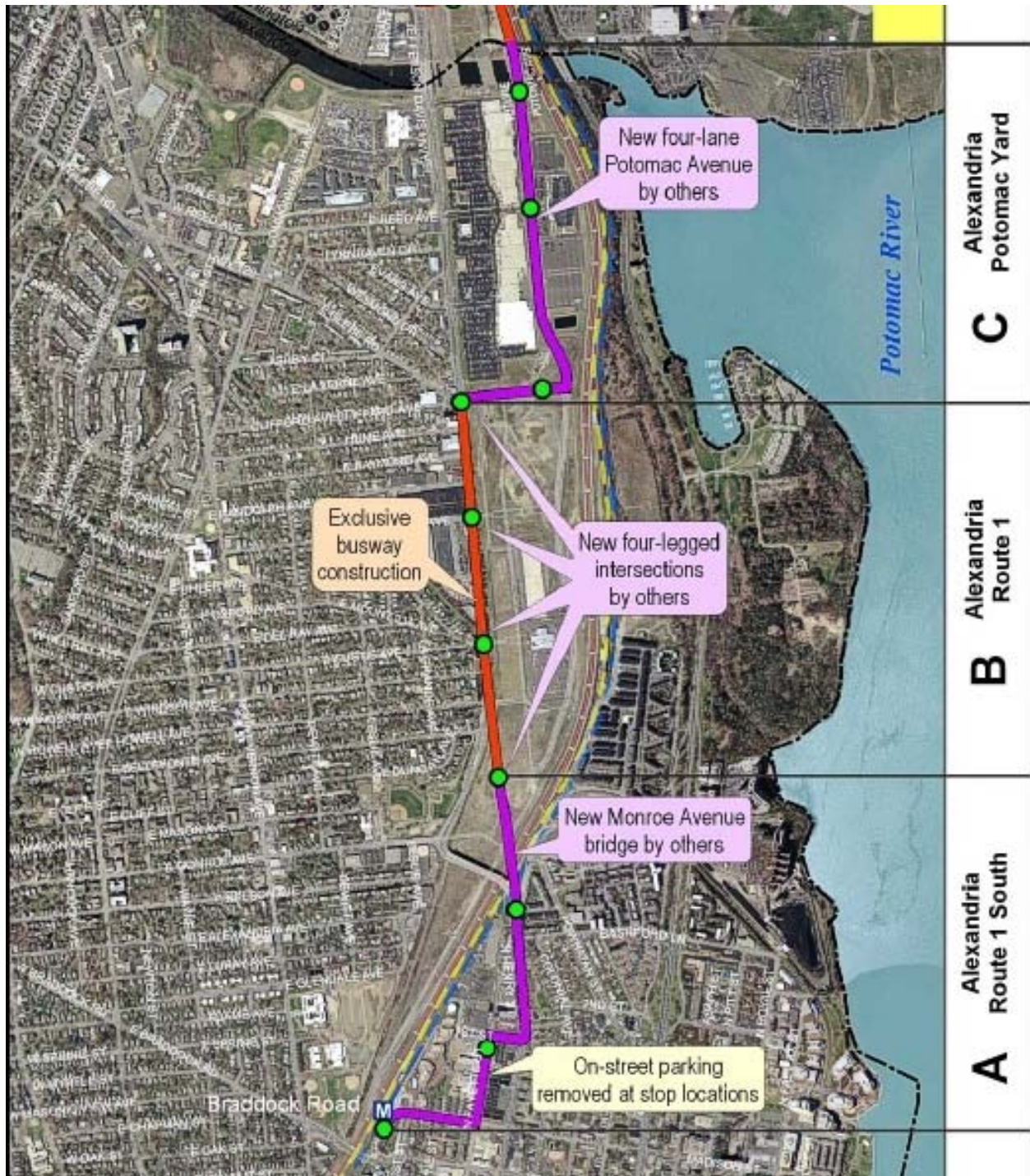
Veirs Mill Road Project Map:

MD TIGER Grant Project

Overall Tasks	Agency Lead	WMATA Budget	TIGER Budget	2010					2011					2012					2013																
Project Management			\$32,515	May	June	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec
Reporting To COG (.5%) (SHA)	COG		\$25,055																																
Project Management (WMATA)	COG		\$7,460																																
MOU Development/Establish administrative process	WMATA		\$0																																
WMATA Board approval	WMATA		\$0																																
Grant obligated	FTA		\$0																																
Construction Administration (WMATA)			\$12,432																																
Engineering/design (WMATA)			\$12,432																																
Contingency Costs (WMATA)			\$1,371																																
Veirs Mill Road Queue Jumps (1 location) \$65,000 (revise to \$31K); NextBus (\$175,000)			\$206,250																																
Atlantic Avenue Queue Jump			\$31,250																																
Planning	WMATA Consultant		\$0																																
Design	WMATA Consultant		\$0																																
SHA Review	Review of Traffic Models, Signal Mod. Design	SHA	\$5,000																																
SHA Project Managem (On-site construction inspection and management)	SHA		\$1,250																																
Construction (Include: Scope - Signal Modification	SHA		\$25,000																																
Veirs Mill Road NextBus			\$175,000																																
Shade Grove Metrorail Station																																			
Next Bus Information Display (Express bus bay)	WMATA		\$5,000																																
Electrical work for NextBus	WMATA		\$1,000																																
Pepco Electrical work	County		\$1,000																																
Frederick Road/Redland Road																																			
Next Bus Information Display	WMATA		\$10,000																																
Electrical work for NextBus	WMATA		\$2,000																																
Pepco Electrical work	County		\$2,000																																
Frederick Road/College Parkway																																			
Next Bus Information Display	WMATA		\$10,000																																
Electrical work for NextBus	WMATA		\$2,000																																
Pepco Electrical work	County		\$2,000																																
Montgomery College																																			
Next Bus Information Display	WMATA		\$10,000																																
Electrical work for NextBus	WMATA		\$2,000																																
Pepco Electrical work	County		\$2,000																																
Rockville Metrorail Station																																			
Next Bus Information Display (Express bus bay)	WMATA		\$5,000																																
Electrical work for NextBus	WMATA		\$1,000																																
Pepco Electrical work	County		\$1,000																																
Veirs Mill Road/Edmonston Drive																																			
Next Bus Information Display	WMATA		\$10,000																																
Electrical work for NextBus	WMATA		\$2,000																																
Pepco Electrical work	County		\$2,000																																
Veirs Mill Road/Atlantic Avenue																																			
Next Bus Information Display	WMATA		\$10,000																																
Electrical work for NextBus	WMATA		\$2,000																																
Pepco Electrical work	County		\$2,000																																
Veirs Mill Road/Twinbrook Parkway																																			
Next Bus Information Display	WMATA		\$10,000																																
Electrical work for NextBus	WMATA		\$2,000																																
Pepco Electrical work	County		\$2,000																																
Veirs Mill Road/Parkland Drive																																			
Next Bus Information Display	WMATA		\$10,000																																
Electrical work for NextBus	WMATA		\$2,000																																
Pepco Electrical work	County		\$2,000																																
Veirs Mill Road/Randolph Road																																			
Next Bus Information Display	WMATA		\$10,000																																
Electrical work for NextBus	WMATA		\$2,000																																
Pepco Electrical work	County		\$2,000																																
Veirs Mill Road/Connecticut Avenue																																			
Next Bus Information Display	WMATA		\$10,000																																
Electrical work for NextBus	WMATA		\$2,000																																
Pepco Electrical work	County		\$2,000																																
Veirs Mill Road/Newport Mill road																																			
Next Bus Information Display	WMATA		\$10,000																																
Electrical work for NextBus	WMATA		\$2,000																																
Pepco Electrical work	County		\$2,000																																
Veirs Mill Road/University Boulevard																																			
Next Bus Information Display	WMATA		\$10,000																																
Electrical work for NextBus	WMATA		\$2,000																																
Pepco Electrical work	County		\$2,000																																
Wheaton Metrorail Station																																			
Next Bus Information Display (Express bus bay)	WMATA		\$5,000																																
Electrical work for NextBus	WMATA		\$1,000																																
Pepco Electrical work	County		\$1,000																																
Total Line Item Budget			\$265,000																																
Total Available through TIGER Grant			\$265,000																																

Project 10 – US 1 (VA) Transitway

Segment B is the area funded by the TIGER grant

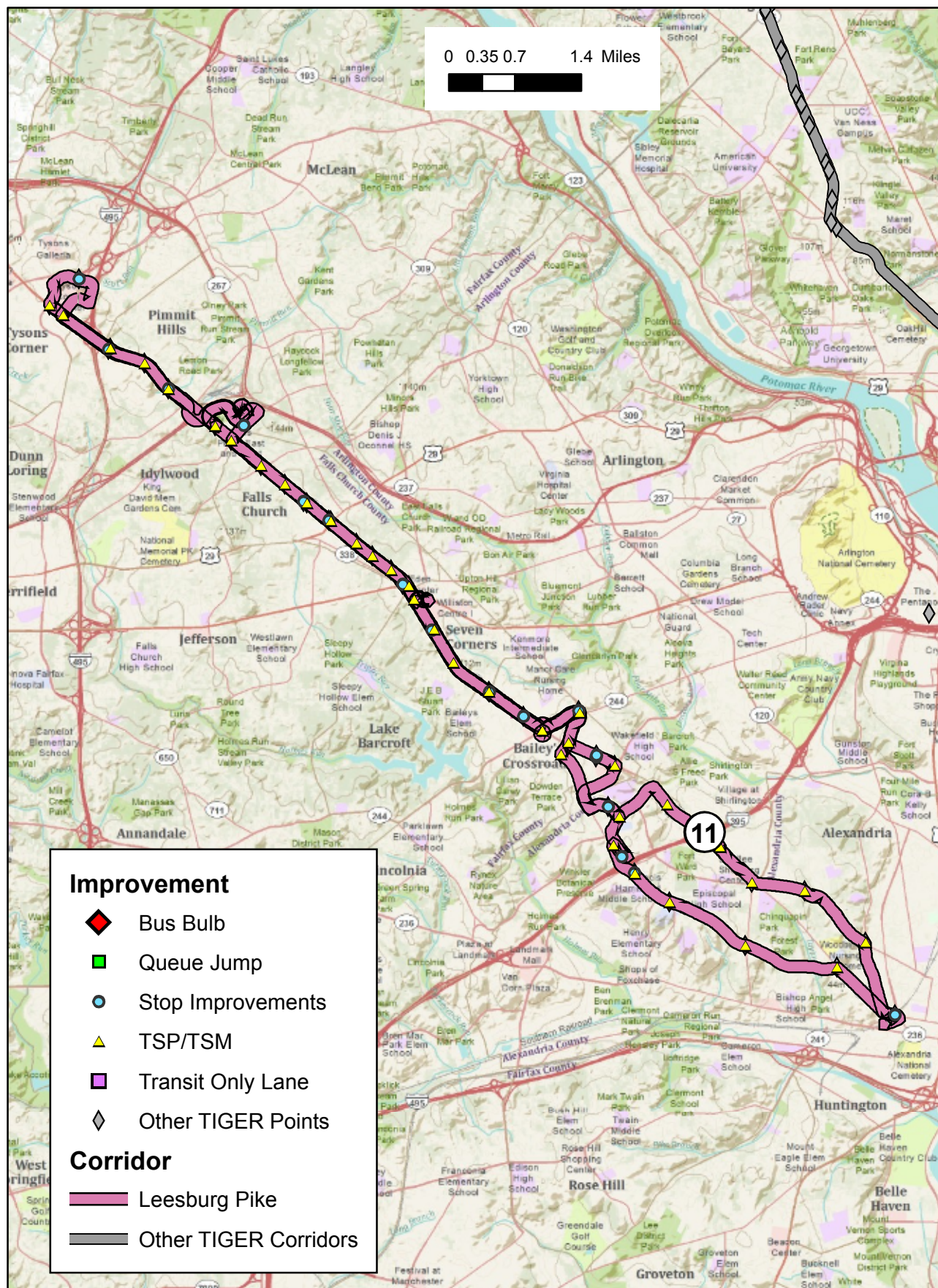


Alexandria TIGER Grant US-1 Transitway

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Metrobus TIGER Projects

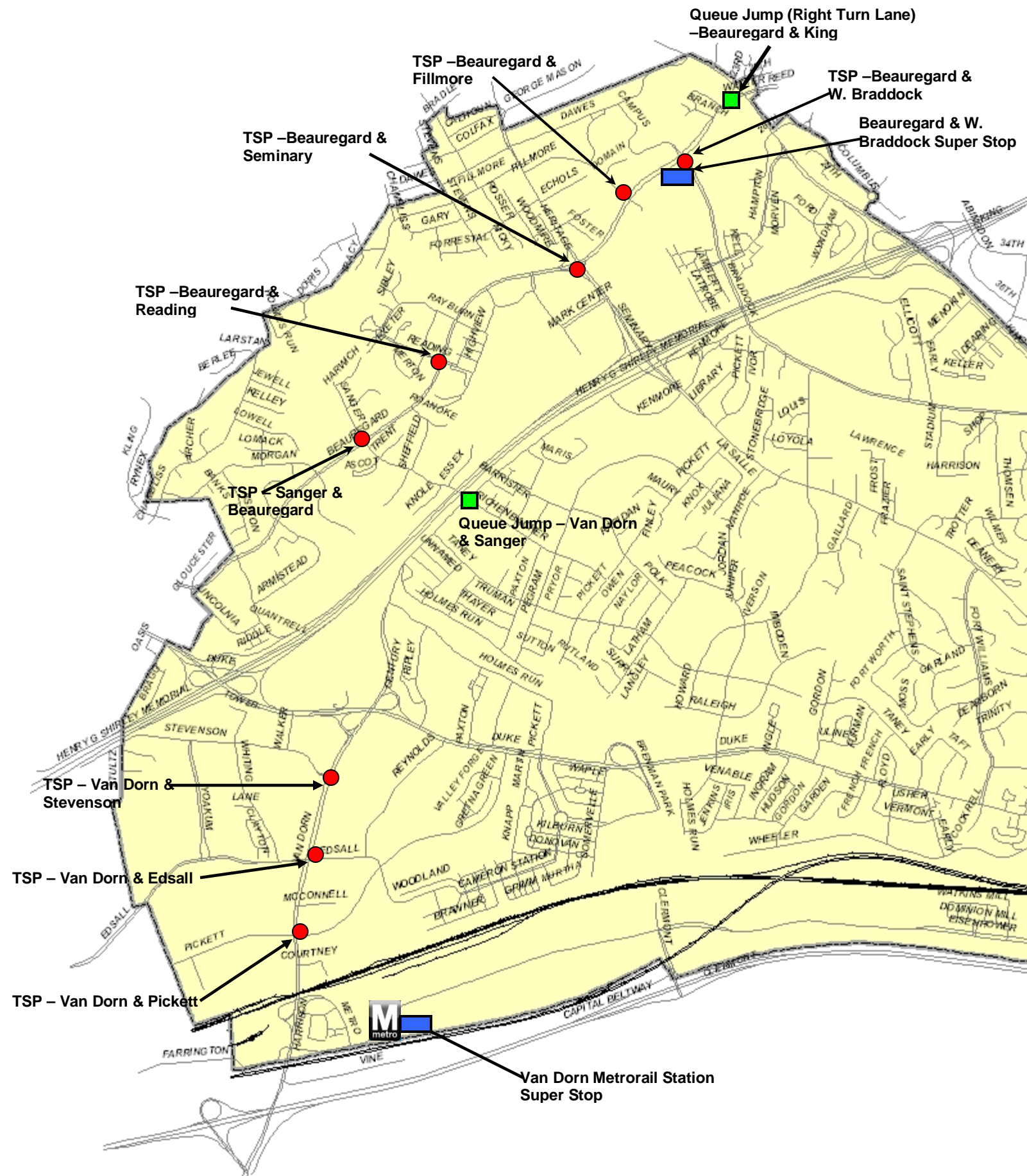
Corridor 11: 28A/B Line - Leesburg Pike



Projects funded through Transportation Investments Generating Economic Recovery (TIGER) federal grant program.

11 -- Route 7 (VA) TIGER Grant Project
5/12/2010

Overall Tasks				Agency Lead	Budget	June, 2010	July, 2010	August, 2010	September, 2010	October, 2010	November, 2010	December, 2010	January, 2011	February, 2011	March, 2011	April, 2011	May, 2011	June, 2011	July, 2011	August, 2011	September, 2011
1.0 Project Management					\$67,000																
1.1	Project Management (5% of line item. To COG)			COG	\$67,000																
1.2	Progress Reports			COG																	
1.3	MOU Development/Establish administrative process			WMATA																	
1.4	WMATA Board approval			WMATA																	
1.5	Grant obligated			FTA																	
2.0 Leesburg Pike NextBus					\$189,000																
2.1	King Street Metro																				
2.1a	Next Bus Information Display (Express bus bay)			WMATA	\$5,000																
2.1b	Electrical work for NextBus			WMATA	\$1,000																
2.1c	Dominion Electrical work			County	\$1,000																
2.2	Seminary Road/Kenmore Avenue																				
2.2a	Next Bus Information Display			WMATA	\$10,000																
2.2b	Electrical work for NextBus			WMATA	\$1,000																
2.2c	Dominion Electrical work			County	\$1,000																
2.3	Southern Towers																				
2.3a	Next Bus Information Display			WMATA	\$10,000																
2.3b	Electrical work for NextBus			WMATA	\$1,000																
2.3c	Dominion Electrical work			County	\$1,000																
2.4	Fillmore Avenue/S. Campus Drive																				
2.4a	Next Bus Information Display			WMATA	\$10,000																
2.4b	Electrical work for NextBus			WMATA	\$1,000																
2.4c	Dominion Electrical work			County	\$1,000																
2.5	S. George Mason Drive/Three Skyline Place																				
2.5a	Next Bus Information Display			WMATA	\$10,000																
2.5b	Electrical work for NextBus			WMATA	\$1,000																
2.5c	Dominion Electrical work			County	\$1,000																
2.6	Leesburg Pike/Jefferson Street																				
2.6a	Next Bus Information Display			WMATA	\$10,000																
2.6b	Electrical work for NextBus			WMATA	\$1,000																
2.6c	Dominion Electrical work			County	\$1,000																
2.7	Columbia Pike/Carlin Springs Road																				
2.7a	Next Bus Information Display			WMATA	\$10,000																
2.7b	Electrical work for NextBus			WMATA	\$1,000																
2.7c	Dominion Electrical work			County	\$1,000																
2.8	Leesburg Pike/Payne Street																				
2.8a	Next Bus Information Display			WMATA	\$10,000																
2.8b	Electrical work for NextBus			WMATA	\$1,000																
2.8c	Dominion Electrical work			County	\$1,000																
2.9	Leesburg Pike/Glen Carlyn Road																				
2.9a	Next Bus Information Display			WMATA	\$10,000																
2.9b	Electrical work for NextBus			WMATA	\$1,000																
2.9c	Dominion Electrical work			County	\$1,000																
2.10	Leesburg Pike/Patrick Henry Drive																				
2.10a	Next Bus Information Display			WMATA	\$10,000																
2.10b	Electrical work for NextBus			WMATA	\$1,000																
2.10c	Dominion Electrical work			County	\$1,000																
2.11	Seven Corners Transit Center																				
2.11a	Next Bus Information Display			WMATA	\$5,000																
2.11b	Electrical work for NextBus			WMATA	\$1,000																
2.11c	Dominion Electrical work			County	\$1,000																
2.12	Broad Street/Washington Street																				
2.12a	Next Bus Information Display			WMATA	\$10,000																
2.12b	Electrical work for NextBus			WMATA	\$1,000																
2.12c	Dominion Electrical work			County	\$1,000																
2.13	Broad Street/Virginia Avenue																				
2.13a	Next Bus Information Display			WMATA	\$10,000																
2.13b	Electrical work for NextBus			WMATA	\$1,000																
2.13c	Dominion Electrical work			County	\$1,000																
2.14	West Falls Church Metro																				
2.14a	Next Bus Information Display (Express bus bay)			WMATA	\$5,000																
2.14b	Electrical work for NextBus			WMATA	\$1,000																
2.14c	Dominion Electrical work			County	\$1,000																
2.15	Leesburg Pike/Pimmit Drive																				
2.15a	Next Bus Information Display			WMATA	\$10,000																
2.15b	Electrical work for NextBus			WMATA	\$1,000																
2.15c	Dominion Electrical work			County	\$1,000																
2.16	Leesburg Pike/Ramada Road																				
2.16a	Next Bus Information Display			WMATA	\$10,000																
2.16b	Electrical work for NextBus			WMATA	\$1,000																
2.16c	Dominion Electrical work			County	\$1,000																
2.17	Tysons Corner Transit Center																				
2.17a	Next Bus Information Display			WMATA	\$10,000																
2.17b	Electrical work for NextBus			WMATA	\$1,000																
2.17c	Dominion Electrical work			County	\$1,000																
3.0 Leesburg Pike Transit Signal Priority					\$883,000																
3.1	Vendor approvals																				
3.1a	Acceptance Testing and Approvals			Vendor	\$2,500																
3.1b	Design Specifications			Vendor	\$2,500																



Attachment A
Map of Van Dorn - Beauregard Transit Improvements
 Red = Transit Signal Priority (TSP)
 Blue = Super Stop
 Green = Queue Jump Lane

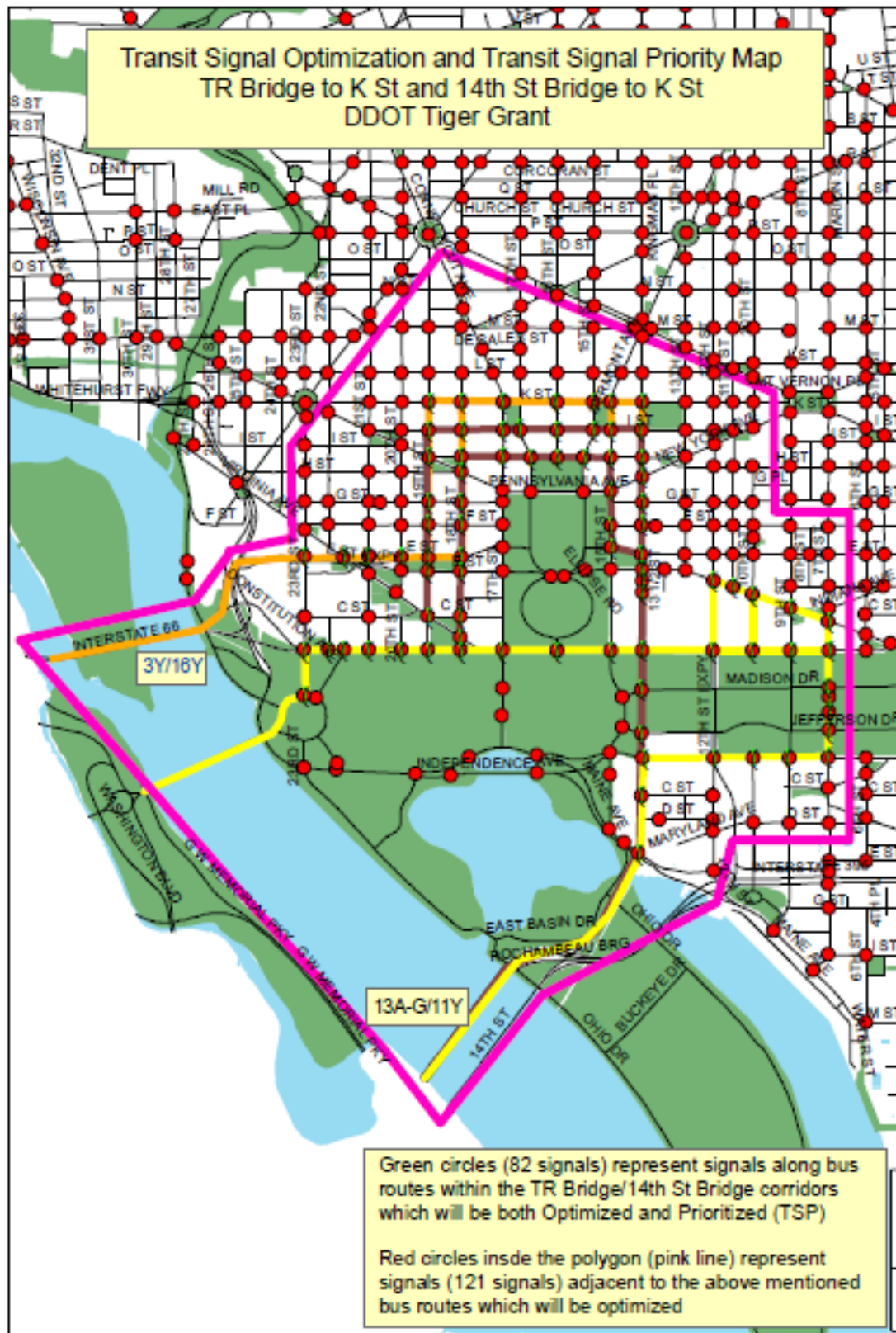
City of Alexandria Van Dorn / Beauregard TIGER Grant Project

Overall Tasks	Agency Lead	Budget	Grant Source	2010												2011												2012												2013																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
				May	June	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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City of Alexandria T&ES Staff Project Management - Entire Project				City of Alexandria				(staff time / regular pay)				City of Alexandria																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															

Project 13 – T. Roosevelt Bridge to K Street

Project 14 – 14th Street Bridge to K Street

Traffic Signal Optimization Map

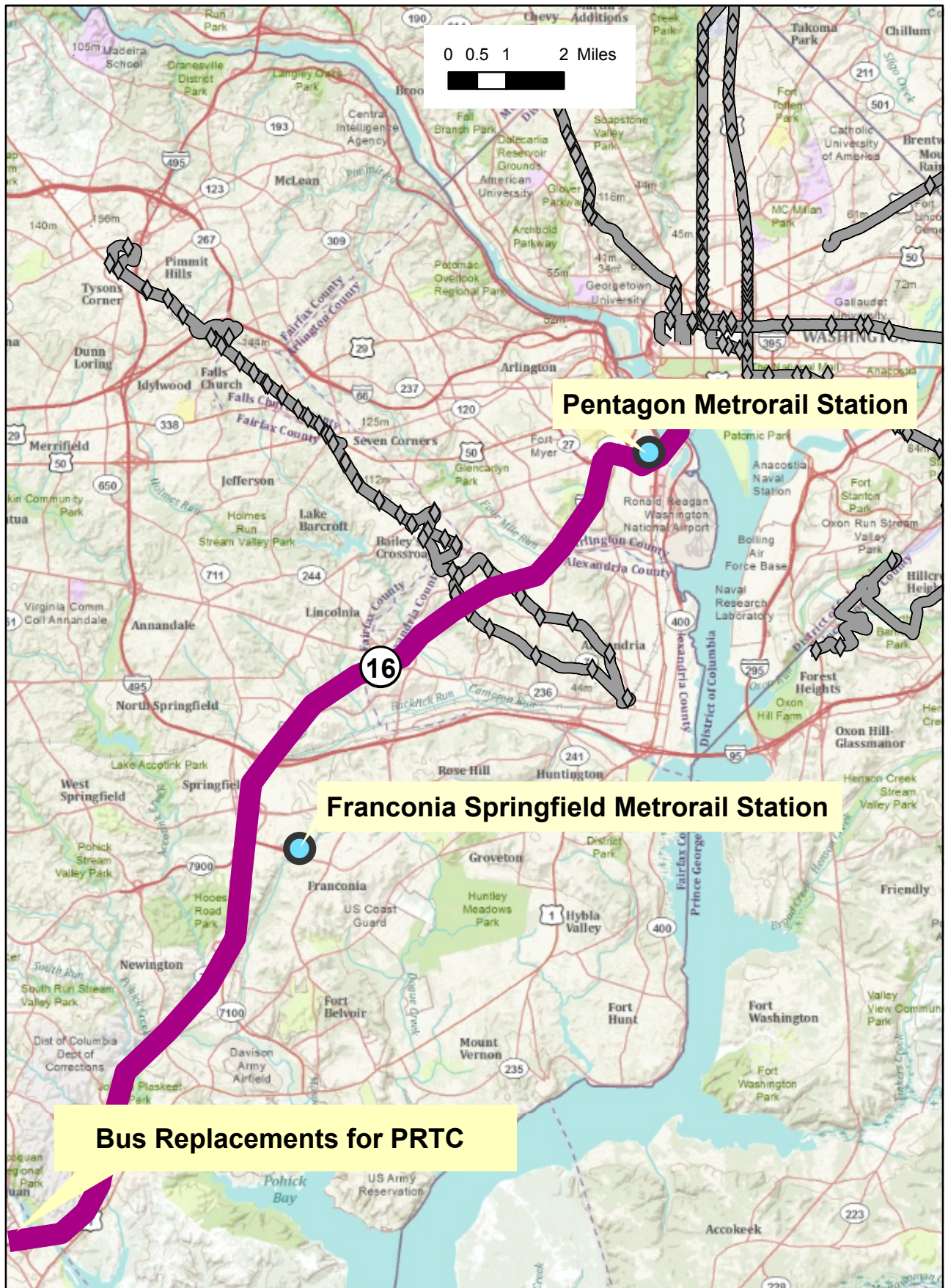


				Jun-10	Jul-10	Aug-10	Sep-10	Oct-10	Nov-10	Dec-10	Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11	Jan-12	Feb-12	Mar-12	Apr-12	May-12	Jun-12	Jul-12
1.0	TR Bridge to K St - Traffic Signal Optimization																												
1.1	This project will allow DDOT to optimize the signal system from the TR Bridge to K St via E St, 18th St, and 19th St. This will improve bus movement along the corridor leading to the downtown core. A map of the intersections is provided in the scope.			DDOT																									
	1.1a	Project Management / Coordination			\$30,000																								
	1.1b	Data Collection			\$247,000																								
	1.1c	Evaluation of Clearance Intervals			\$30,000																								
	1.1d	Volume Balancing			\$40,000																								
	1.1e	Network Setup			\$40,000																								
	1.1f	Timing Plan Development and Optimization			\$40,000																								
	1.1g	Timing Plan Implementation			\$22,000																								
	1.1h	Project Evaluation			\$22,000																								
	1.1i	Project Documentation			\$22,000																								
Note: Will improve approximately 261 intersections.																													
2.0	TR Bridge to K St - Transit Signal Priority																												
2.1	This project is a partnership between DDOT and WMATA designed to enhance bus movement along the corridor. DDOT will invest in signal and signal systems upgrades and WMATA will invest in bus-based equipment designed to interact with DDOT signal system infrastructure. DDOT will be able to upgrade up to 24 intersections and WMATA will be able to install TSP equipment on up to 30 buses.			DDOT/WMATA Consultant/DDOT Consultant/DDOT Consultant/DDOT Consultant WMATA/Consultant WMATA/DDOT DDOT DDOT Consultant/DDOT Consultant/DDOT Consultant/DDOT Consultant/DDOT Consultant/DDOT Consultant/DDOT Consultant/DDOT Consultant Consultant/DDOT Consultant/DDOT Vendor/DDOT Vendor/WMATA DDOT Consultant/DDOT Consultant/DDOT Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant	\$24,140																								
	2.1a	Acceptance Testing and Approvals			\$30,175																								
	2.1b	Design Specifications			\$15,088																								
	2.1c	Performance Specifications			\$6,035																								
	2.2	Agency Coordination																											
	2.2a	Agency Coordination			\$12,070																								
	2.2b	Stakeholder Workshop			\$12,070																								
	2.2c	Intergovernmental Agreements/Memorandums of Understanding			\$12,070																								
	2.3	Signal System Design																											
	2.3a	Preliminary Scoping of Intersections			\$4,526																								
	2.3b	Field Review for System Requirements			\$15,088																								
	2.3c	Scope Refinement			\$4,526																								
	2.3d	Existing Signal Timing Review			\$7,544																								
	2.3e	TSP Timing Development			\$22,631																								
	2.3f	TSP Detection Setting Development			\$15,088																								
	2.3g	Intersection Device Design Drawings			\$30,175																								
	2.4	Procurement from Vendor(s)																											
	2.4a	Construction Details			\$27,158																								
	2.4b	Design Specifications			\$10,561																								
	2.4c	Equipment Delivery			\$4,526																								
	2.5	Installation																											
	2.5a	Construction Management			\$18,105																								
	2.5b	Vendor System Design			\$4,526																								
	2.5c	Signal System Equipment Upgrades			\$401,328																								
	2.5d	Transit Vehicle Equipment Upgrades			\$286,663																								
	2.5e	Timings Deployment			\$30,175																								
	2.5f	System Intregation Testing			\$22,631																								
	2.5g	System Acceptance Testing			\$22,631																								
	2.5h	Complete System Installation			\$18,105																								
	2.6	Performance Evaluation																											
	2.6a	Develop Performance Metrics			\$12,070																								
	2.6b	Before Data Collection			\$22,631																								
	2.6c	After Data Collection			\$22,631																								
2.6d	Data Analysis and Reporting		\$24,140																										
2.7	Documentation																												
2.7a	Signal System Design Tech memo		\$15,088																										
2.7b	Performance Evaluation Tech memo		\$15,088																										
2.7c	System Deployment Tech memo		\$15,088																										
2.7d	Final Report		\$15,088																										
2.7e	Lessons Learned		\$7,544																										
3.0	TR Bridge to K St - UPS Installation																												
Uninterruptible Power Supplies (UPS) function as a separate source to maintain a continuous supply of electricity whenever commercial power is not available and thus prevent traffic signals from going dark or into the flashing mode following power interruptions. Maintaining the signals’ red-yellow-green operation reduces the problems with traffic congestion and safety. Interruption of power is a common phenomenon in the District and therefore installation of UPS devices at the critical intersections in select corridors would improve overall bus operations as well.																													
TOTAL TIGER GRANT AWARD - TR BRIDGE TO K ST BUS PRIORITY IMPROVEMENTS																													
TOTAL TIGER GRANT AWARD - TR BRIDGE TO K ST BUS PRIORITY IMPROVEMENTS																													
TOTAL TIGER GRANT AWARD - TR BRIDGE TO K ST BUS PRIORITY IMPROVEMENTS																													

1.0 14th St Bridge to K St - Traffic Signal Optimization			Budget	Jun-10	Jul-10	Aug-10	Sep-10	Oct-10	Nov-10	Dec-10	Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11	Jan-12	Feb-12	Mar-12	Apr-12	May-12	Jun-12	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12	Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14	Jul-14
This project will allow DDOT to optimize the signal system from the 14th St Bridge to K St via 14th St. This will improve bus movement along the corridor leading to the downtown core. A map of the intersections is provided in the scope.																																																					
1.1		DDOT																																																			
1.1a	Project Management / Coordination		\$45,000																																																		
1.1b	Data Collection		\$563,000																																																		
1.1c	Evaluation of Clearance Intervals		\$115,000																																																		
1.1d	Volume Balancing		\$115,000																																																		
1.1e	Network Setup		\$115,000																																																		
1.1f	Timing Plan Development and Optimization		\$115,000																																																		
1.1g	Timing Plan Implementation		\$55,000																																																		
1.1h	Project Evaluation		\$55,000																																																		
1.1i	Project Documentation		\$55,000																																																		
2.0 14th St Bridge to K St - Transit Signal Priority			\$3,019,000																																																		
This project is a partnership between DDOT and WMATA designed to enhance bus movement along the corridor. DDOT will invest in signal and signal systems upgrades and WMATA will invest in bus-based equipment designed to interact with DDOT signal system infrastructure. DDOT will be able to upgrade up to 58 intersections and WMATA will be able to install TSP equipment on up to 70 buses.																																																					
2.1	RFP Development and Consultant Selection	DDOT/WMATA	\$60,380																																																		
2.1a	Acceptance Testing and Approvals	Consultant/DDOT	\$75,475																																																		
2.1b	Design Specifications	Consultant/DDOT	\$37,738																																																		
2.1c	Performance Specifications	Consultant/DDOT	\$15,095																																																		
2.2	Agency Coordination																																																				
2.2a	Agency Coordination	Consultant	\$30,190																																																		
2.2b	Stakeholder Workshop	WMATA/Consultant	\$30,190																																																		
2.2c	Intergovernmental Agreements/Memorandums of Understanding	WMATA/DDOT	\$30,190																																																		
2.3	Signal System Design																																																				
2.3a	Preliminary Scoping of Intersections	DDOT	\$11,321																																																		
2.3b	Field Review for System Requirements	DDOT	\$37,738																																																		
2.3c	Scope Refinement	Consultant/DDOT	\$11,321																																																		
2.3d	Existing Signal Timing Review	Consultant/DDOT	\$18,869																																																		
2.3e	TSP Timing Development	Consultant/DDOT	\$56,606																																																		
2.3f	TSP Detection Setting Development	Consultant/DDOT	\$37,738																																																		
2.3g	Intersection Device Design Drawings	Consultant/DDOT	\$75,475																																																		
2.4	Procurement from Vendor(s)																																																				
2.4a	Construction Details	Consultant/DDOT	\$67,928																																																		
2.4b	Design Specifications	Consultant/DDOT	\$26,416																																																		
2.4c	Equipment Delivery	Consultant	\$11,321																																																		
2.5	Installation																																																				
2.5a	Construction Management	Consultant/DDOT	\$45,285																																																		
2.5b	Vendor System Design	Consultant/DDOT	\$11,321																																																		
2.5c	Signal System Equipment Upgrades	Vendor/DDOT	\$1,003,818																																																		
2.5d	Transit Vehicle Equipment Upgrades	Vendor/WMATA	\$717,013																																																		
2.5e	Timings Deployment	DDOT	\$75,475																																																		
2.5f	System Integration Testing	Consultant/DDOT	\$56,606																																																		
2.5g	System Acceptance Testing	Consultant/DDOT	\$56,606																																																		
2.5h	Complete System Installation	Vendor/DDOT	\$45,285																																																		
2.6	Performance Evaluation																																																				
2.6a	Develop Performance Metrics	Consultant	\$30,190																																																		
2.6b	Before Data Collection	Consultant	\$56,606																																																		
2.6c	After Data Collection	Consultant	\$56,606																																																		
2.6d	Data Analysis and Reporting	Consultant	\$60,380																																																		
2.7	Documentation																																																				
2.7a	Signal System Design Tech memo	Consultant	\$37,738																																																		
2.7b	Performance Evaluation Tech memo	Consultant	\$37,738																																																		
2.7c	System Deployment Tech memo	Consultant	\$37,738																																																		
2.7d	Final Report	Consultant	\$37,738																																																		
2.7e	Lessons Learned	Consultant	\$18,869																																																		
3.0 14th St Bridge to K St - UPS Installation			\$200,000																																																		
Uninterruptible Power Supplies (UPS) function as a separate source to maintain a continuous supply of electricity whenever commercial power is not available and thus prevent traffic signals from going dark or into the flashing mode following power interruptions. Maintaining the signals' red-yellow-green operation reduces the problems with traffic congestion and safety. Interruption of power is a common phenomenon in the District and therefore installation of UPS devices at the critical intersections in select corridors would improve overall bus operations as well.																																																					
4.0 Administrative Costs			\$748,000																																																		
These funds are set aside to help cover the administrative costs of MWCOC and any ABRA related oversight requests.																																																					
TOTAL TIGER GRANT AWARD - TR BRIDGE TO K ST BUS PRIORITY IMPROVEMENTS			\$5,200,000																																																		

Metrobus TIGER Projects

Corridor 16: I-95/395 Multimodal Improvements



Projects funded through Transportation Investments Generating Economic Recovery (TIGER) federal grant program.

Overall Tasks			Agency Lead	Budget	June, 2010	July, 2010	August, 2010	September, 2010	October, 2010	November, 2010	December, 2010	January, 2011	February, 2011	March, 2011	April, 2011	May, 2011	June, 2011	July, 2011	August, 2011	September, 2011
1.0	Project Management			\$500,000																
1.1	Project Management (5% of line item. To COG)		COG	\$500,000																
1.2	Progress Reports		COG																	
1.3	MOU Development/Establish administrative process		WMATA																	
1.4	WMATA Board approval		WMATA																	
1.5	Grant obligated		FTA																	
2.0	Pentagon Metrorail Station Improvements			\$2,160,000																
2.1	3 Additional Bus Bays		DoD																	
2.1a	bus bays			\$650,000																
2.1b	bus shelters			\$100,000																
2.2	Real Time Bus Arrival Information		WMATA																	
2.2a	Next Bus Information Display			\$15,000																
2.2b	Electrical work for NextBus			\$3,000																
2.2c	Dominion Electrical work			\$3,000																
2.3	Circulation Improvements		DoD																	
	Additional signage			\$16,000																
	Expansion of bus bays for BRAC shuttles			\$750,000																
2.4	Access Improvements		DoD																	
	Sidewalk connecting to Metrorail			\$250,000																
2.5	Safety Improvements		DoD																	
	Pedestrian Control barriers			\$5,000																
	Lighting at and around Pentagon Transit Center			\$300,000																
	Bomb resistant trash cans			\$68,000																
3.0	Franconia-Springfield Metrorail Station Improvements			\$3,757,000																
3.1	3 Additional Bus Bays		WMATA																	
3.1a	bus bays			\$35,000																
3.1b	bus shelters			\$50,000																
3.2	Real Time Bus Arrival Information																			
3.2a	Next Bus Information Display		WMATA	\$50,000																
3.2b	Electrical work for NextBus		WMATA	\$10,000																
3.2c	Dominion Electrical work		County	\$10,000																
3.3	Circulation Improvements																			
3.3a	Cell Phone Waiting Lot			\$135,000																
3.3b	Pedestrian Walkway			\$650,000																
3.4	Access Improvements																			
3.4a	Sidewalk improvements			\$450,000																
3.4b	Gateway Treatment			\$490,000																
3.4c	Bike Station			\$422,000																
3.4d	Bike Lockers			\$40,000																
3.4e	Covered Bike Racks			\$15,000																
3.4f	Pedestrian Bridge to GSA Site			\$1,200,000																
3.5	Safety Improvements																			
3.5a	Improved pedestrian crossings		WMATA	\$200,000																
4.0	Construction Administration (15% of line item grant)			\$1,500,000																
5.0	Site preparation and traffic control (5% of line item grant)			\$500,000																
6.0	Engineering/design (10% of line item grant)			\$1,000,000																
7.0	Contingency Costs			\$513,000																
Total Line Item Budget				\$9,930,000																
Total Line Item TIGER Grant				\$10,000,000																

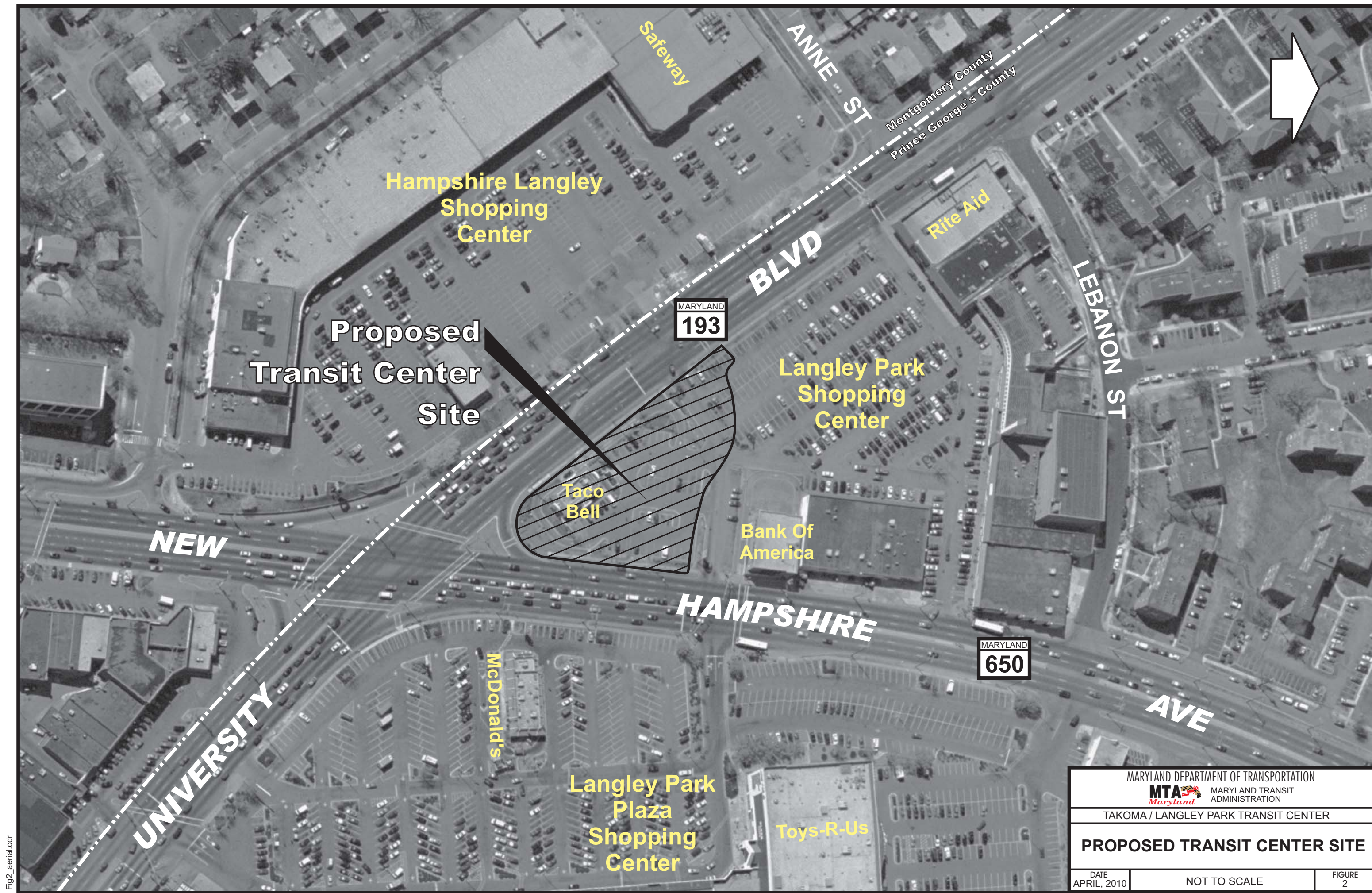


Fig2_aerial.cdr

MARYLAND DEPARTMENT OF TRANSPORTATION MTA MARYLAND TRANSIT ADMINISTRATION <i>Maryland</i>		
TAKOMA / LANGLEY PARK TRANSIT CENTER		
PROPOSED TRANSIT CENTER SITE		
DATE APRIL, 2010	NOT TO SCALE	FIGURE 2

18 - Langley Park Transit Center TIGER Grant Project

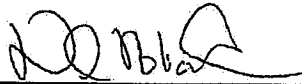
Overall Tasks	Total Budget	TIGER Grant Funds		2010												2011												2012												2013															
		COG Mgmt.	Construction	May	June	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec								
18 - Langley Transit Center Schedule / Budget Breakdown																																																							
Planning	\$0.7380 M																																																						
Design and Permitting	\$3.1403 M																																																						
30% Plans and Estimate																																																							
60% Plans and Estimate																																																							
90% Plans and Estimate																																																							
Right of Way Acquisition	\$9.2500 M																																																						
Advertise for Bids																																																							
Award Contract for Construction																																																							
Construction	\$12.3000 M	5.00%	95.00%																																																				
Entrance Improvements		\$0.0583 M	\$1.1068 M																																																				
Utilities		\$0.0200 M	\$0.3800 M																																																				
Preliminary and Grading		\$0.0620 M	\$1.1780 M																																																				
Site Demolition		\$0.0095 M	\$0.1805 M																																																				
Site Improvements		\$0.1900 M	\$3.6100 M																																																				
Service Building		\$0.0137 M	\$0.2612 M																																																				
Canopy		\$0.2615 M	\$4.9685 M																																																				
Sub-Total		\$0.6150 M	\$11.6850 M																																																				
Total Costs	\$25.4283 M	\$12.3000 M																																																					

EXECUTION BY THE AUTHORIZED PROJECT SPONSOR EXECUTIVE

Executed this 19 day of May, 2010.

METROPOLITAN WASHINGTON COUNCIL OF
GOVERNMENTS

Project Sponsor




David Robertson

Executive Director

EXECUTION BY THE GOVERNMENT

Executed this 19th day of May, 2010.



for

Letitia A. Thompson

Regional Administrator, TRO-3