

Montgomery Planning

Forest Glen/Montgomery Hills Sector Plan

October 23, 2018

Preliminary Recommendations

Transportation

Topics Tonight

- Managed Lanes
- Project Update
- Key Transportation Elements of a Sector Plan
- Vision Zero
- What We Heard & What We Observed
- Preliminary Recommendations
- Next Steps & Important Dates

Plan Kick-off
October 2017

Existing Conditions
December 2017

Toolbox and Approach

June 2018

Timeline Thus Far

Technical Update (Tonight)

Preliminary Rec's

Public Meeting

Dec 4

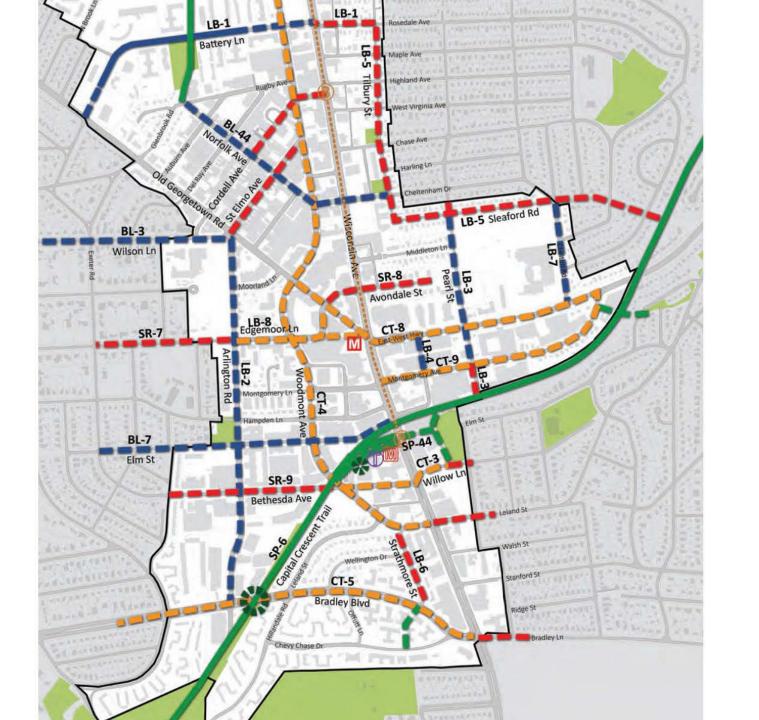
Preliminary Rec's

Board Meeting

Dec 6

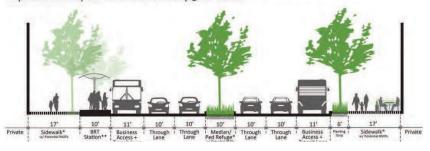
Working Draft
Spring 2019

Timeline Update: Today



Right-of-Way

Wisconsin Ave (@ Cordell Ave, Looking North)
Proposed Section Option 3b: Curb Lane Busway @ BRT Station



2.3 Transportation



Downtown Bethesda is well connected to the surrounding region by a vibrant transportation network incorporating three major highways: Old Georgetown Road (MD 187), Wisconsin Avenue (MD 355) and East-West Highway (MD 410). The community is near the Capital Beltway (Interstate-495) and Metrorail Red Line.

In addition to these roadways and commuter rail system, the proposed Purple Line light rail and proposed MD 355 South Bus Rapid Transit Corridor are anticipated to be implemented during the horizon year (2040) of this planning document. A grid of local streets completes the transportation network by promoting safe and efficient travel throughout the community for pedestrians, bicyclists and motorists.

In order to enhance the existing transportation network, this Plan recommends "complete streets" improvements to the roadway network that increase the connectivity, safety and quality for all modes of transportation. Complete streets design principles refer to roadway treatments intended to accommodate multiple modes of transportation, including pedestrian, bicycle, vehicular and transit, within the same right-of-way, Due to the transit-oriented nature of Downtown Bethesda, future transportation improvements within the Sector Plan area

Chapter 4: Implementation

The Downtown Bethesda Plan will be implemented through incremental redevelopment over time consistent with the County's current subdivision staging policies. Recognizing that Bethesda is a mixed-use area, most of the Downtown is recommended for continued Commercial Residential (CR) or Commercial Residential Town (CRT) zoning, with significant flexibility to develop a mix of residential and non-residential uses. At the same time, there are certain public amenities and benefits that are critical to the economic, sustainability and quality-of-life goals of this Sector Plan.

4.6 Capital Improvements Program and New Financing Mechanisms

4.6.1 Capital Improvements Program

The following infrastructure projects will enable Downtown Bethesda to evolve into a mixed-use, transitoriented community and should be funded through the County Capital Improvements Program.

Some projects may be completed using the Amenity Fund and with private sector participation.

4.6.2 New Financing Mechanisms

One of the four overarching goals of the Sector Plan is to increase parks and open space in Bethesda. The Sector Plan identifies several projects in the Capital Improvements Program (CIP) to achieve this goal, but the capacity of the current CIP to fund these projects is limited and the cost of acquiring and developing new parks in a developed area will be significant. This Plan recommends the exploration of new financing mechanisms that could help pay for new parks. This includes the park impact payment recommended for the Overlay zone, as well as other potential alternative financing mechanisms (such as a special taxing district) that could provide a more stable source of funding not linked to new development and therefore available in the near term.

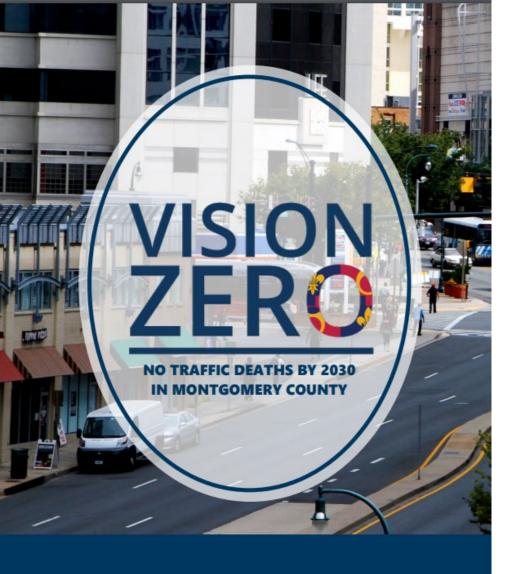
Table 4.01: Capital Improvements Pro			
Project Name	Category	Lead Agency	Coordinating Agencies
Redesign Wisconsin Avenue as an urban boulevard	Transportation	SHA	M-NCPPC/MCDOT
Redesign Old Georgetown Road as an urban boulevard	Transportation	SHA	M-NCPPC/MCDOT
Redesign East-West Hwy as an urban boulevard	Transportation	SHA	M-NCPPC/MCDOT
Redesign Norfolk Avenue as a shared street	Transportation	MCDOT	M-NCPPC
Redesign Pearl Street as a shared street	Transportation	MCDOT	M-NCPPC
Pearl Street Connector	Transportation	M-NCPPC/MCDOT	M-NCPPC/MCDOT
Capital Crescent Trail tunnel/surface route beneath Wisconsin Avenue and Elm Street, via Elm Street Park	Transportation	MCDOT	SHA, M-NCPPC, Town o
Reconfigure East-West Hwy, Montgomery Lane, Old Georgetown Road and Woodmont Avenue with separated bike lanes	Transportation	SHA	M-NCPPC/MCDOT
Purple Line/Station Construction	Transportation	MTA	WMATA/MCDOT/M-NC
Extend BRT Corridor 4: MD 355 South from the Bethesda North Station to the Bethesda South Station to connect the Purple Line	Transportation	MTA	WMATA/MCDOT/M-NCI
Bethesda South Bus Circulation	Transportation	MCDOT	SHA, BUP
Bethesda Circulator Bus Expansion	Transportation	MCDOT	SHA, BUP
Full-service bicycle storage facility located adjacent to the CCT tunnel route	Transportation	MCDOT	M-NCPPC
New separated bikeway lanes on Woodmont Avenue, Bradley Boulevard, Arlington Road and Bethesda Avenue/Willow Lane between Woodmont Avenue and 47th Street	Transportation	MCDOT	SHA, M-NCPPC
Shared Roadway on Commerce Lane, Avondale Street, Rosedale Avenue, Tilbury Street, St. Elmo, Cordell Avenue and Bethesda Avenue	Transportation	MCDOT	M-NCPPC
New trail connection at Bradley Boulevard and Capital Crescent Trail, and Pearl Street and the CCT.	Transportation	MCDOT	M-NCPPC
North Bethesda Trail- widening	Transportation	M-NCPPC	MCDOT
Bike Share Stations	Transportation	MCDOT	M-NCPPC
Undergrounding of public utilities	Transportation	MCDOT	SHA, M-NCPPC
New bike lanes on Chelton Road, Pearl Street, Norfolk Avenue, Cheltenham Drive, Elm Street, Battery Lane and Wilson Lane	Transportation	MCDOT, SHA	M-NCPPC
Veteran's Park Civic Green	Parks and Open Space	M-NCPPC	
The Farm Women's Market Civic Green	Parks and Open Space	M-NCPPC	
Capital Crescent Civic Green	Parks and Open Space	M-NCPPC	MCDOT
Bethesda Trolley Trail Gateway Park	Parks and Open Space	M-NCPPC	
Gateway to Norwood Local Park	Parks and Open Space	M-NCPPC	Private

NTOWN PLAN | MAY 2017

www.montgomeryplanning.org/visionzero

Vision Zero

How is Safety Created? | Decreasing Crash Frequency | Decreasing Crash Severity



OUR PLAN TO ELIMINATE FATALITIES AND SEVERE INJURIES ON OUR ROADS BY 2030 TWO-YEAR ACTION PLAN • NOV 2017

What is Vision Zero?

 In the United States, it is a response to the approximately 40,000 traffic fatalities annually

• In Montgomery County, an annual average of 30 fatalities and 340 severe injuries between 2012-2016

TRADITIONAL APPROACH

Traffic deaths are INEVITABLE

PERFECT human behavior

Prevent COLLISIONS

INDIVIDUAL responsibility

Saving lives is **EXPENSIVE**

VISION ZERO

Traffic deaths are PREVENTABLE

Integrate **HUMAN FAILING** in approach

Prevent FATAL AND SEVERE CRASHES

SYSTEMS approach

VS

Saving lives is NOT EXPENSIVE

How is Safety Created?

- 1. Decrease the **frequency** of crashes
- 2. Decrease the **severity** of crashes

Decreasing Crash Frequency

Reduce Conflicts



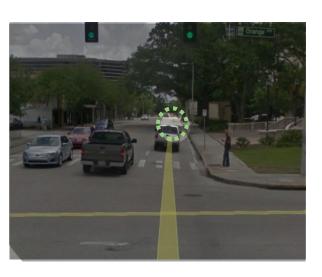
- Designate space for different users
- Provide predictability where users interact

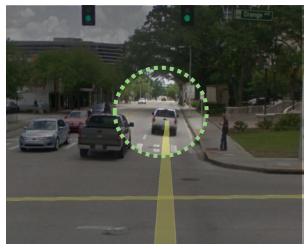


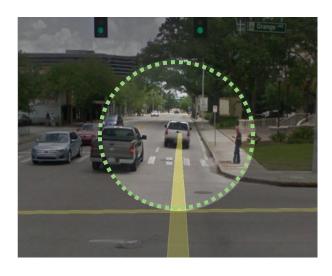
Decreasing Crash Frequency

Increase the ability to yield

Driver Field of Vision at Various Speeds









40 MPH

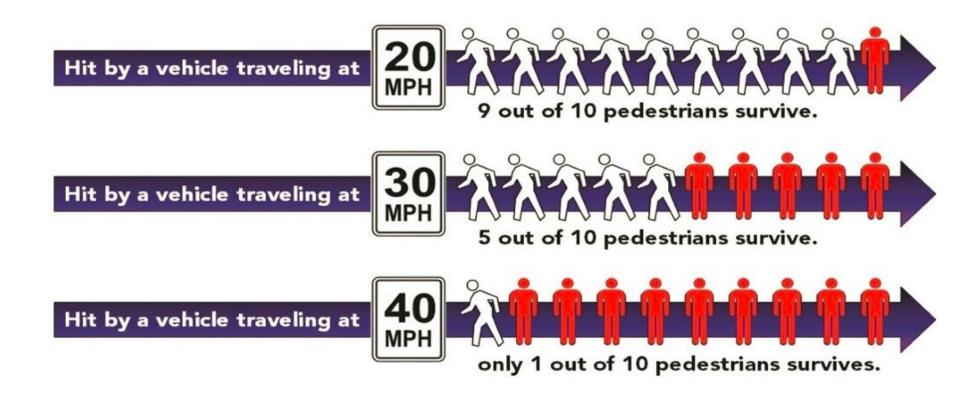
30 MPH

20 MPH

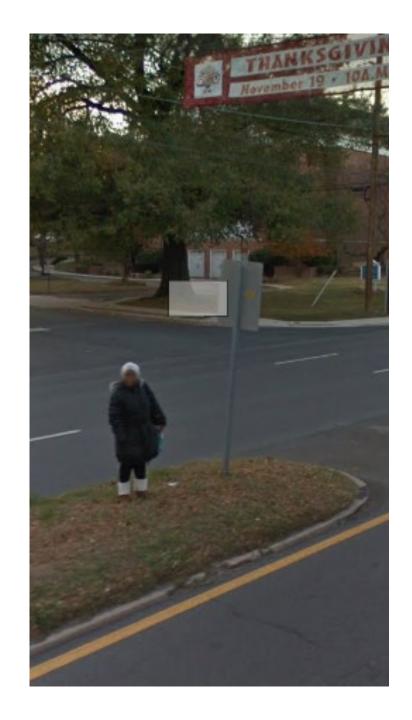
15 MPH

Image Credit: Kittelson & Associates, Inc.

Decreasing Crash Severity









Forest Glen/Montgomery Hills Sector Plan Transportation Goals

Sector Plan Transportation Goals

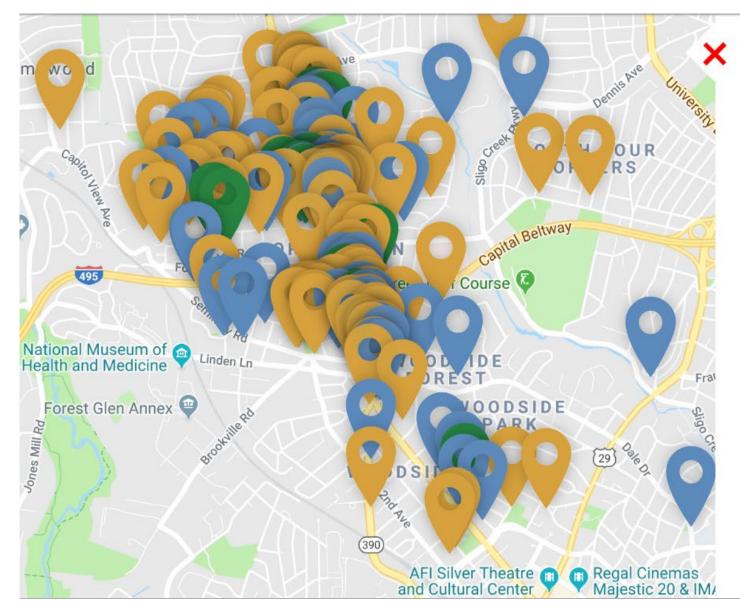
- Eliminate all traffic-related deaths and severe injuries (aligned with County Council Vision Zero Initiative)
- 2. Improve the comfort, safety and overall traveling experience for non-motorized transportation modes (walking, biking, transit)
- 3. Reduce single-occupancy car travel within and through the corridor
- 4. Improve the efficiency of travel for all modes

What We Heard & What We Observed

Walking & Transit | Bicycling | Driving

- Support MDSHA Alternative 5B
- Difficult to walk along Georgia Avenue
- **Scary** to cross Georgia Avenue
- Why isn't there dedicated space for bicyclists?
- Spillback traffic on Georgia Avenue, especially northbound in the evening
- Unsafe Beltway interchange; limited space for merging
- Concern about high speed traffic on neighborhood streets
- Lack of a street grid
- Speeding vehicles in Forest Glen

What We've Heard and What We've Observed



6/5/18 11:23 am \ anonymous

"Pedestrians have been struck and multiple car crashes have occurred here. During rush hour, southbound ambulances going to Holy Cross take left turns here and northbound cars need to take U turns here. Pedestrians going to bus stops and General Getty Park especially need a signal here. Tilton Drive is midway between the signals at Forest Glen Road and August Drive and will serve residents on the east and west sides of Georgia Avenue."

- We need a traffic signal here

6/4/18 7:03 pm \ anonymous

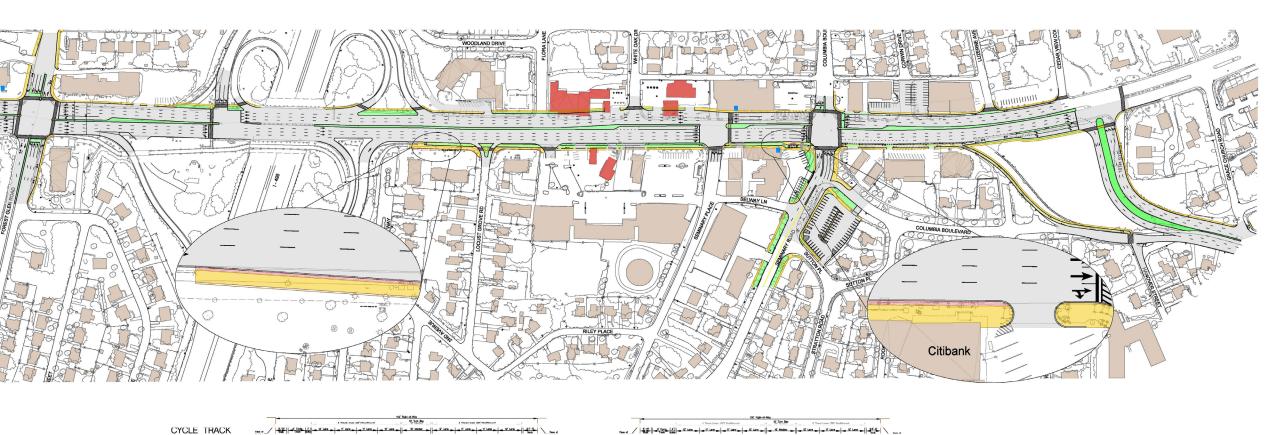
"The chicken must go"

Huge Chicken

6/5/18 11:05 pm \ anonymous

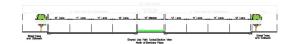
"Add a time restriction to the "No Right Turn on Red" signs at the intersection of Spring

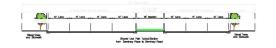
Preferred Alignment - Cycle Track/Shared Use Path - DRAFT





SHARED USE PATH TYPICAL SECTIONS







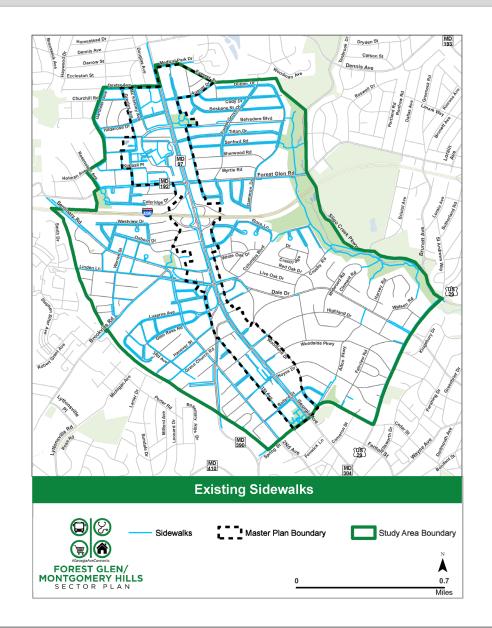


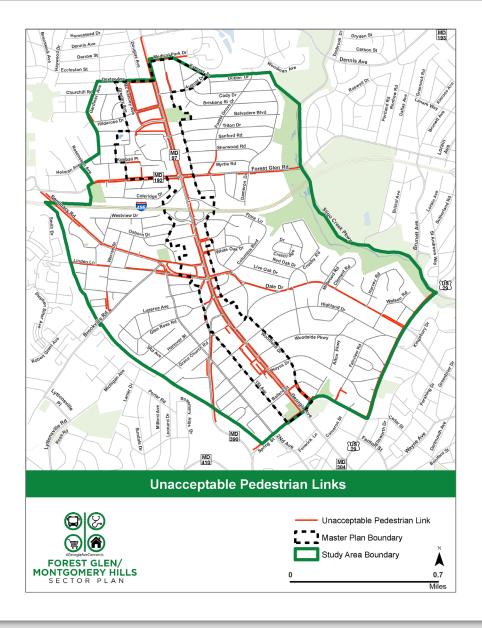


Key Elements of MDSHA Alt 5B

- Remove Reversible Lane
- Install landscaped median between Beltway and 16th Street
- Cross section: 4 lanes southbound, 3 lanes northbound on Georgia Avenue
- Install a two-way bikeway on the west side of Georgia Avenue
- Upgrade sidewalks with buffers and a consistent walkway of 5 feet wide on both sides of Georgia Avenue
- Install a traffic signal at Flora Lane
- Restore left turns at Seminary Road during peak travel hours
- Remove 16th Street southbound slip lane
- Re-route 16th S to 16th Street N (add two lanes)

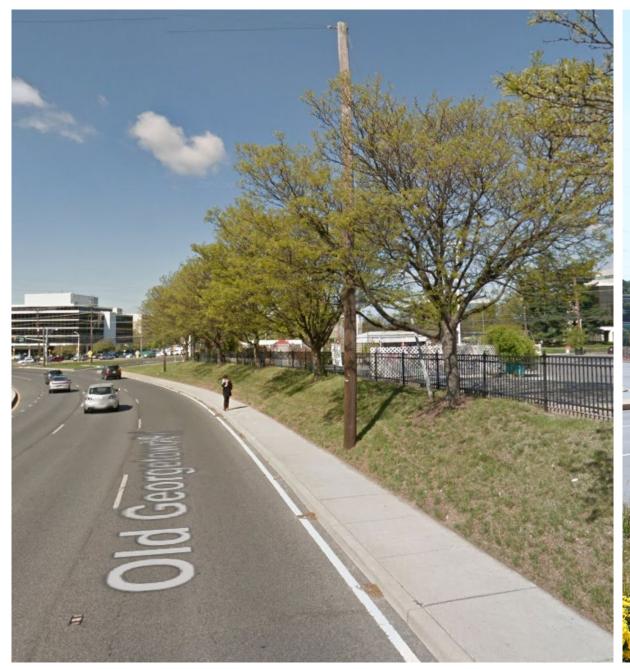










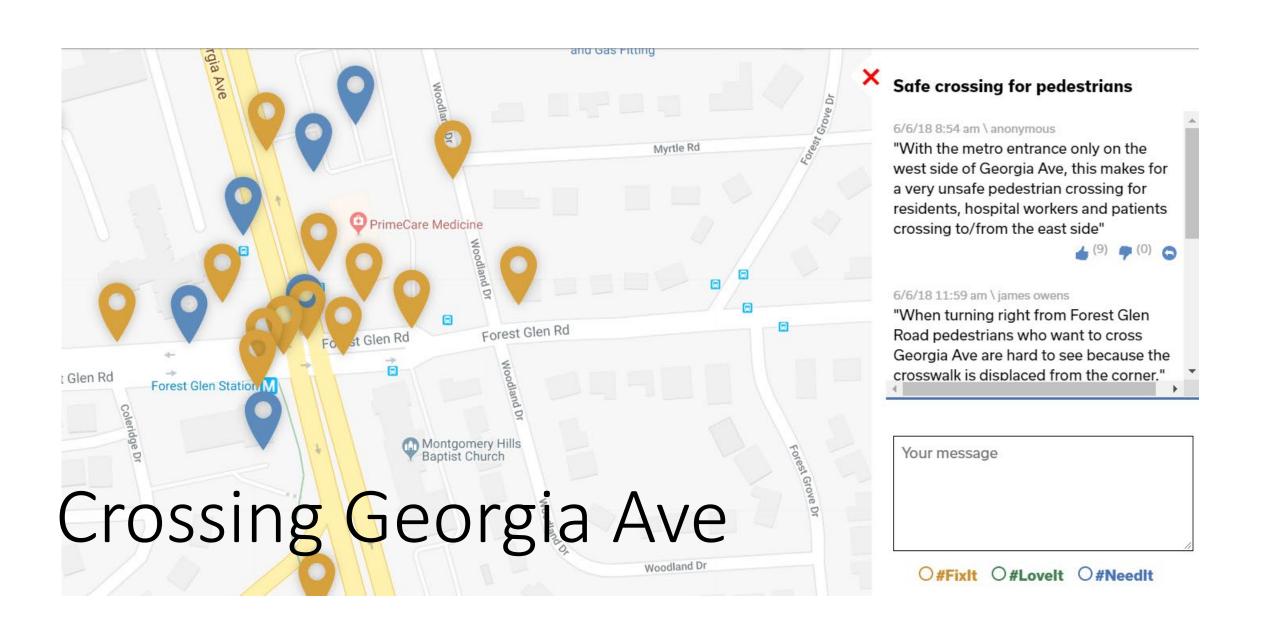


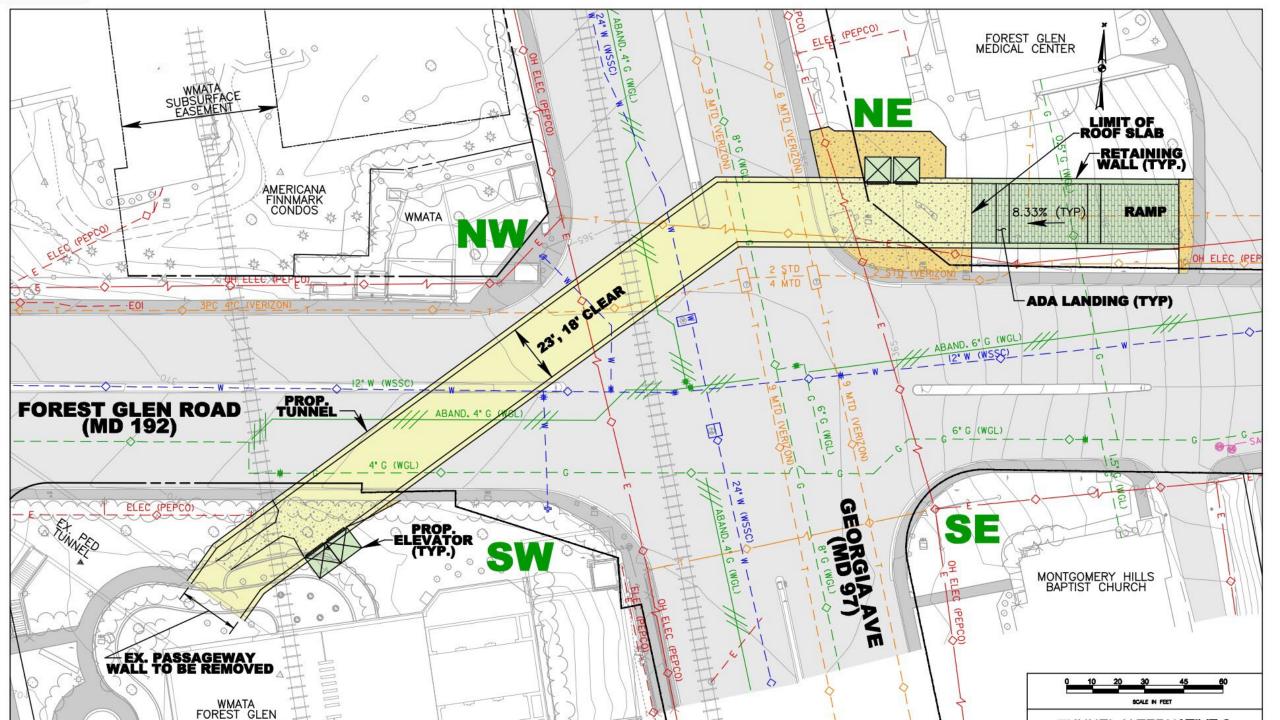




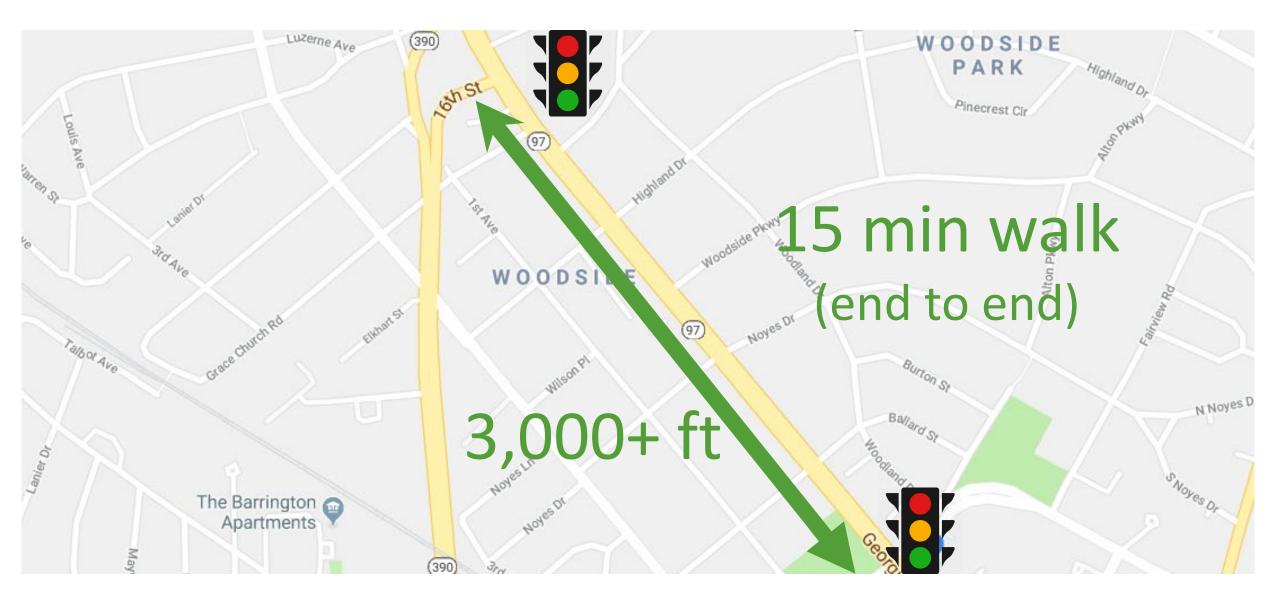




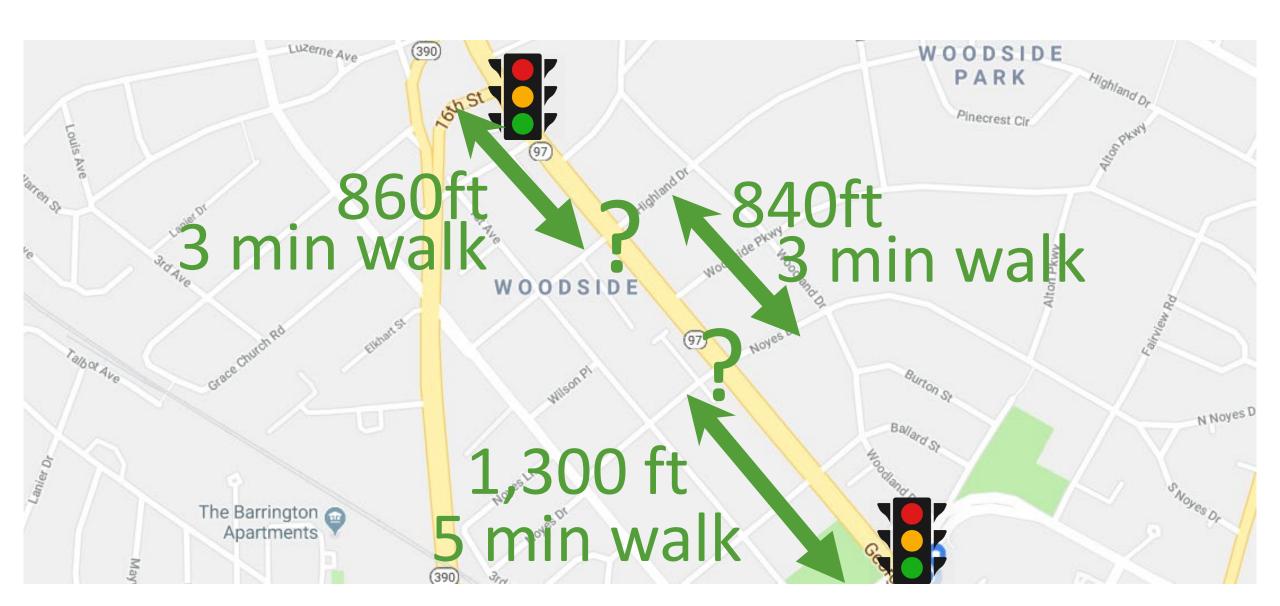


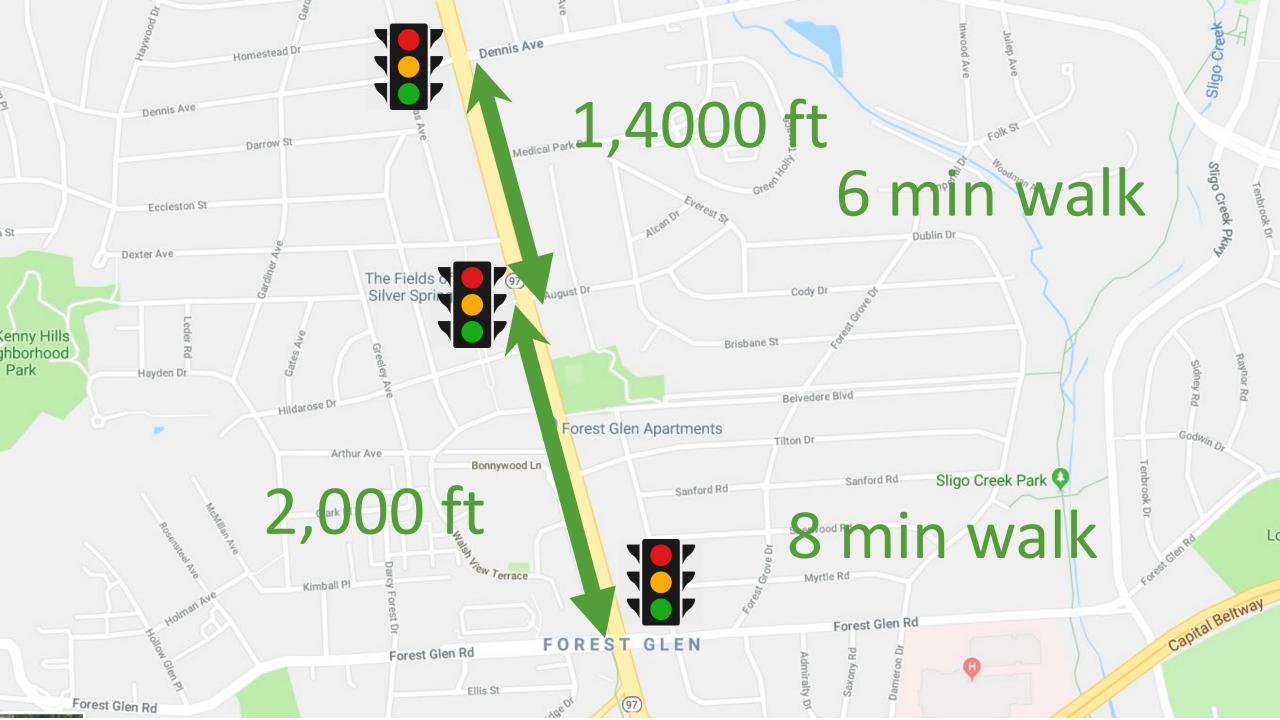


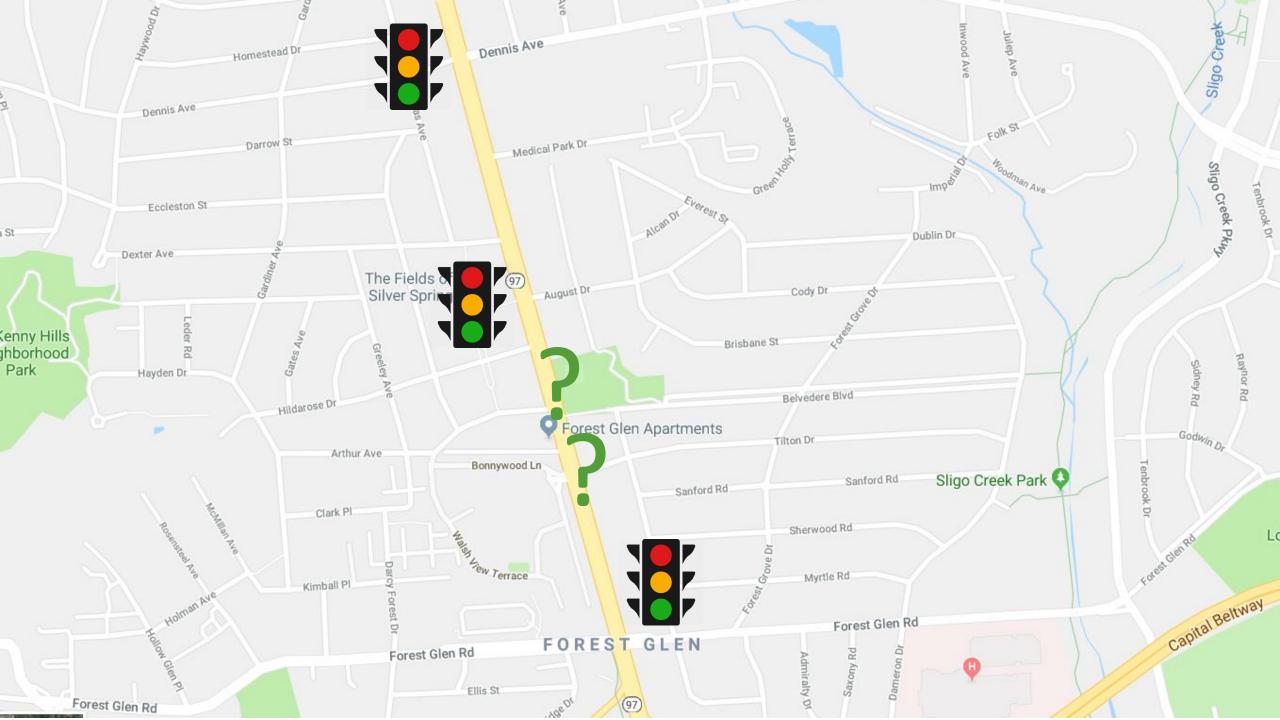
Pedestrian Crossing Experience Today



Potential Crossing Improvements

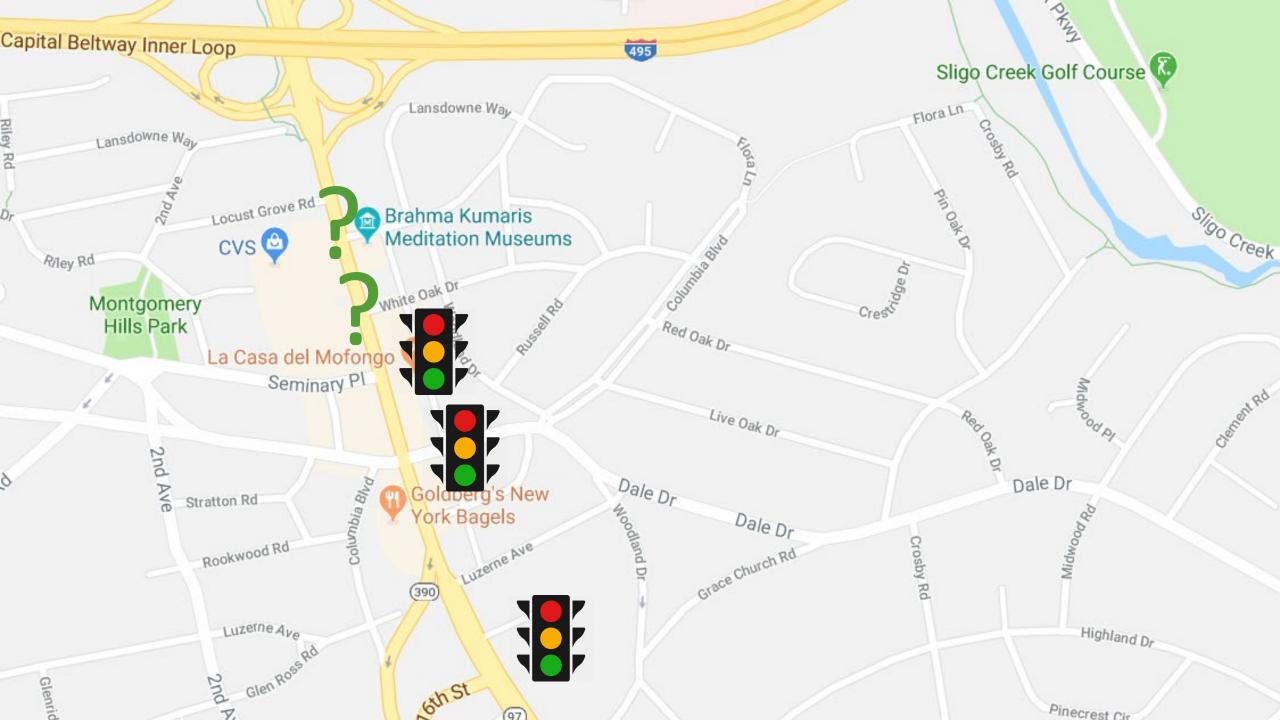


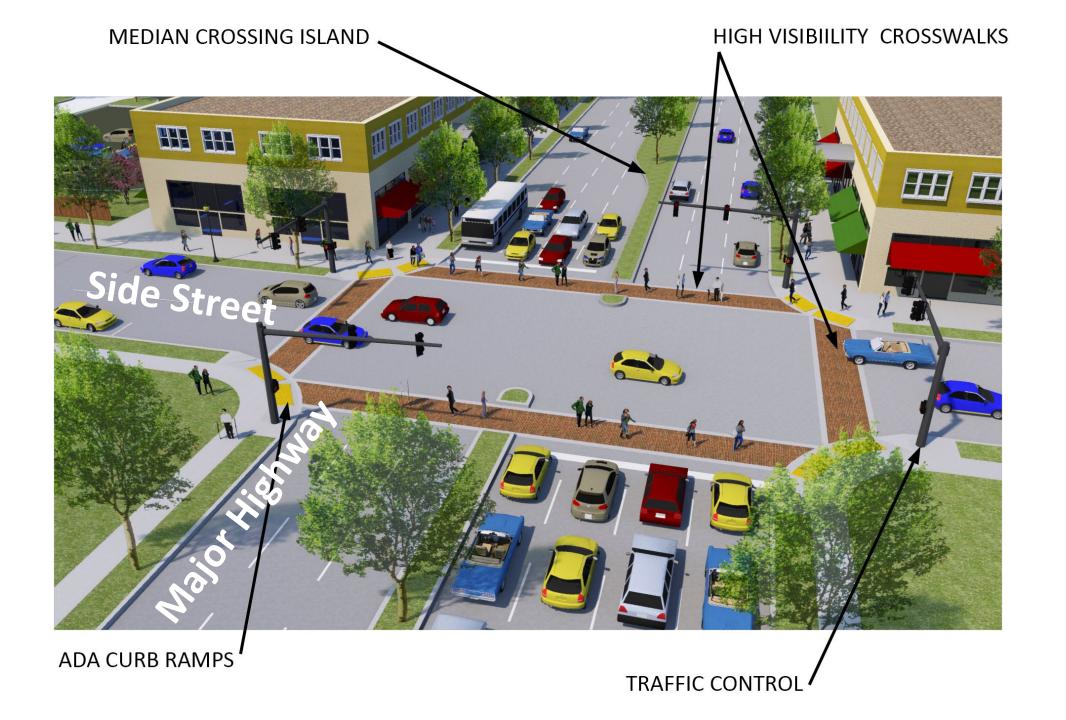








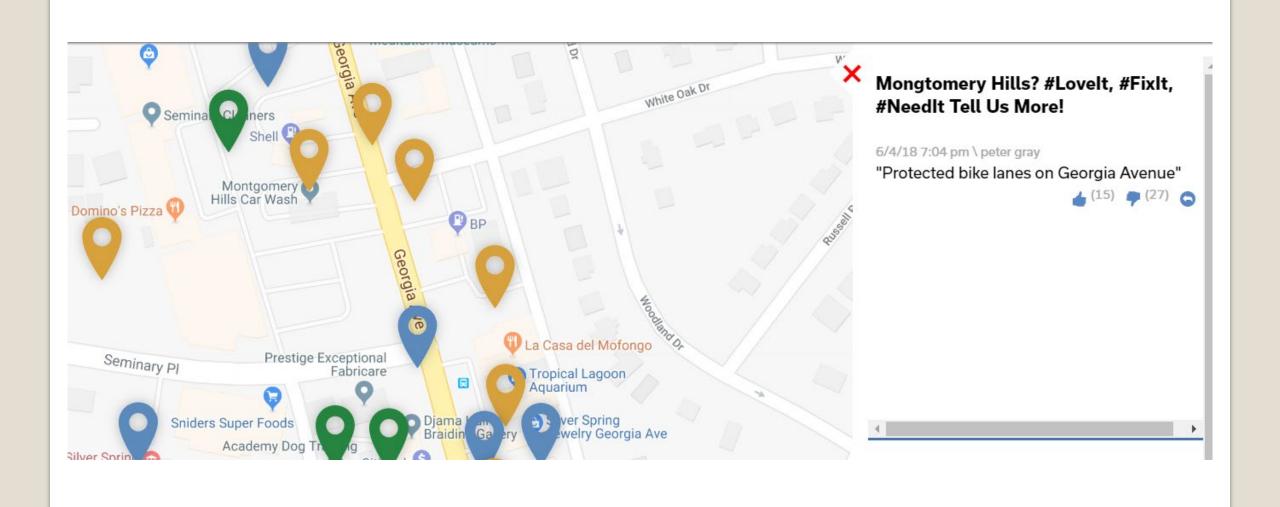












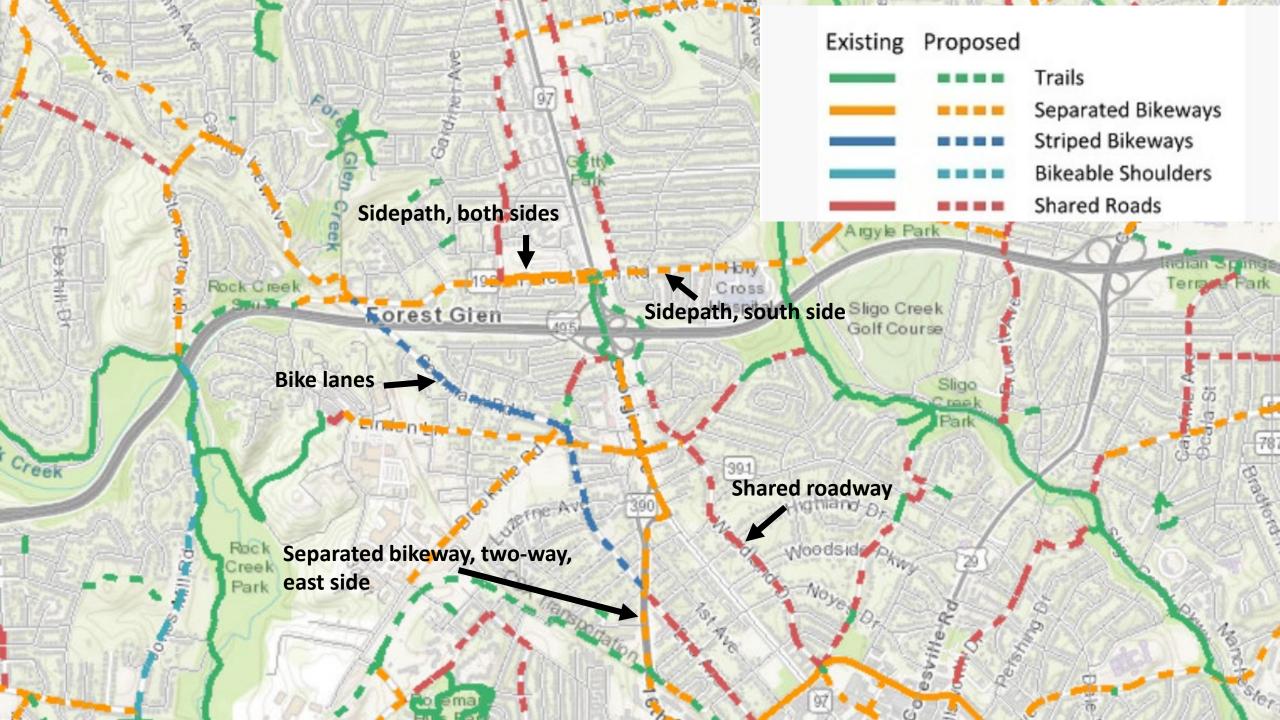




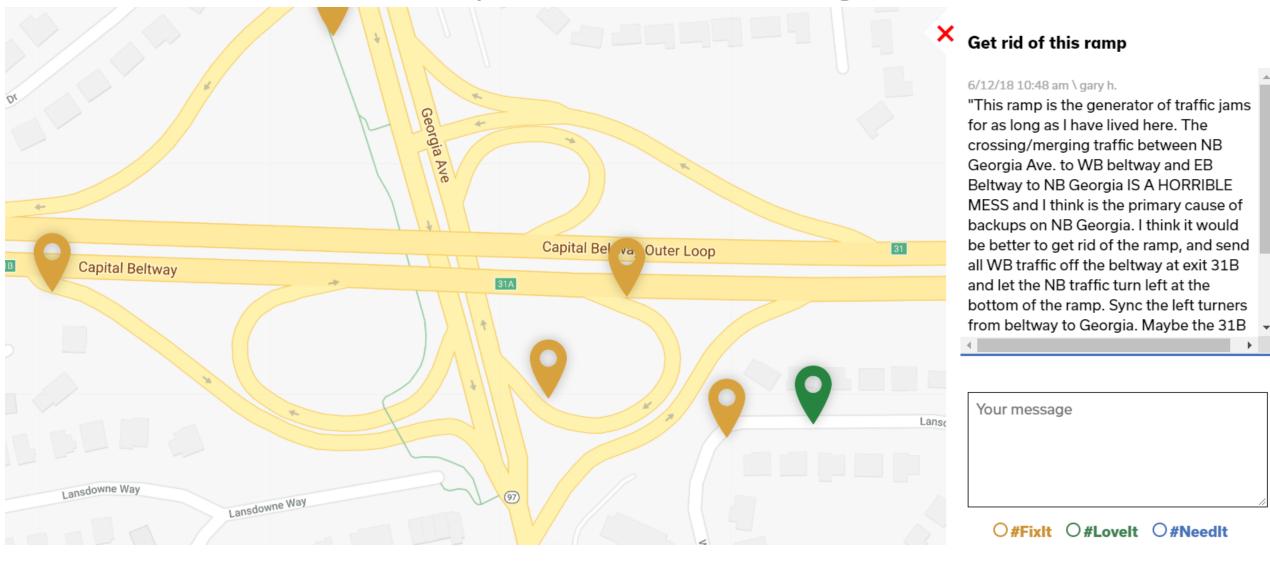






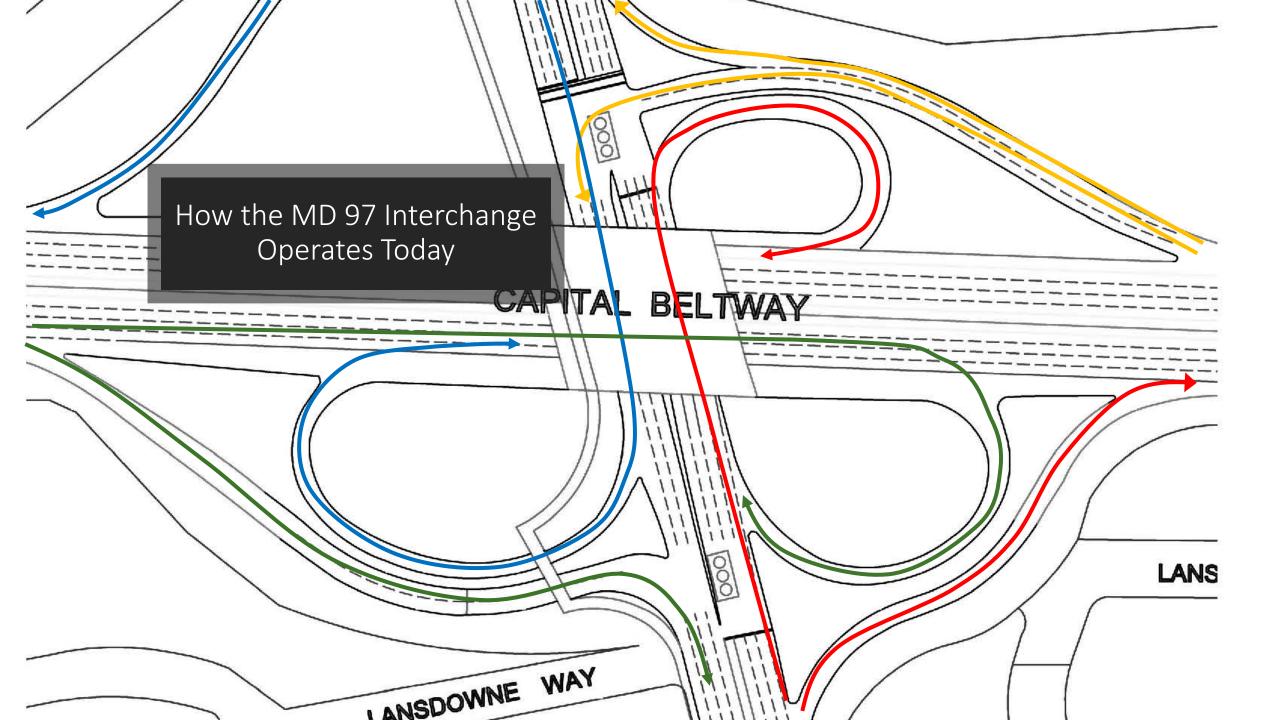


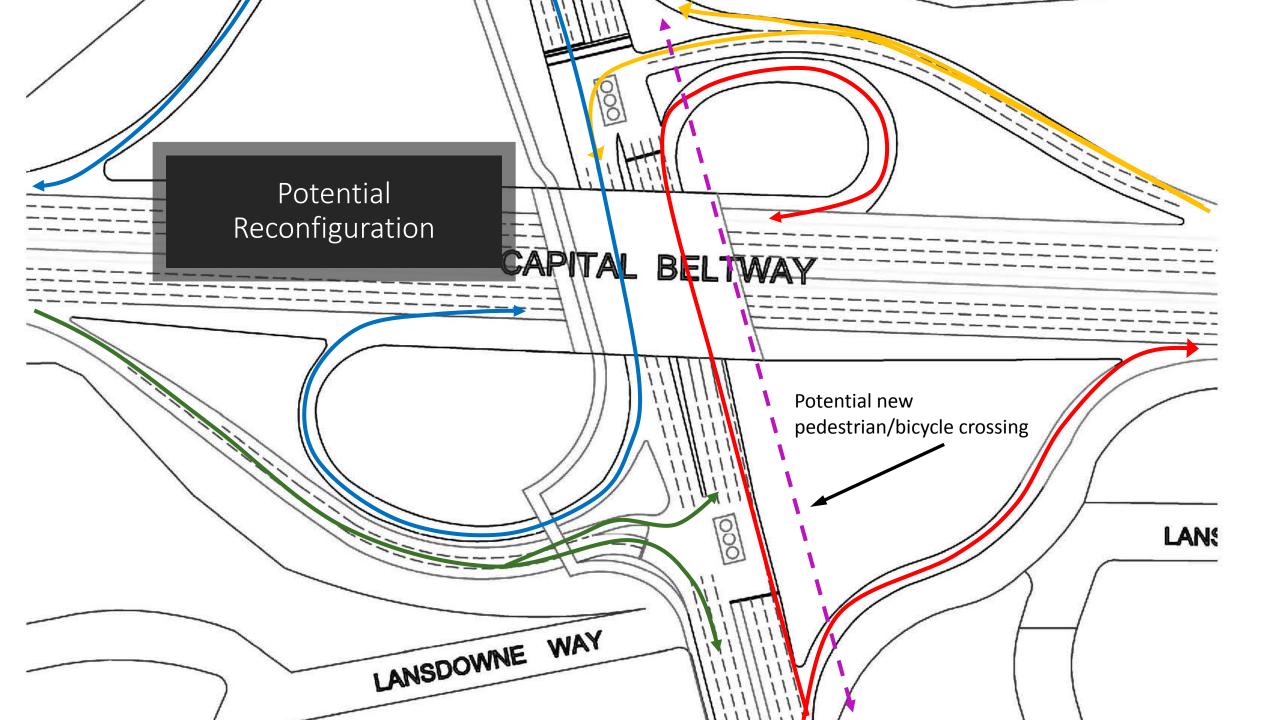
Unsafe Beltway Interchange



Potential Interchange Improvements

Option 1: Beltway Ramp Reconfiguration | Option 2: Diverging Diamond Interchange





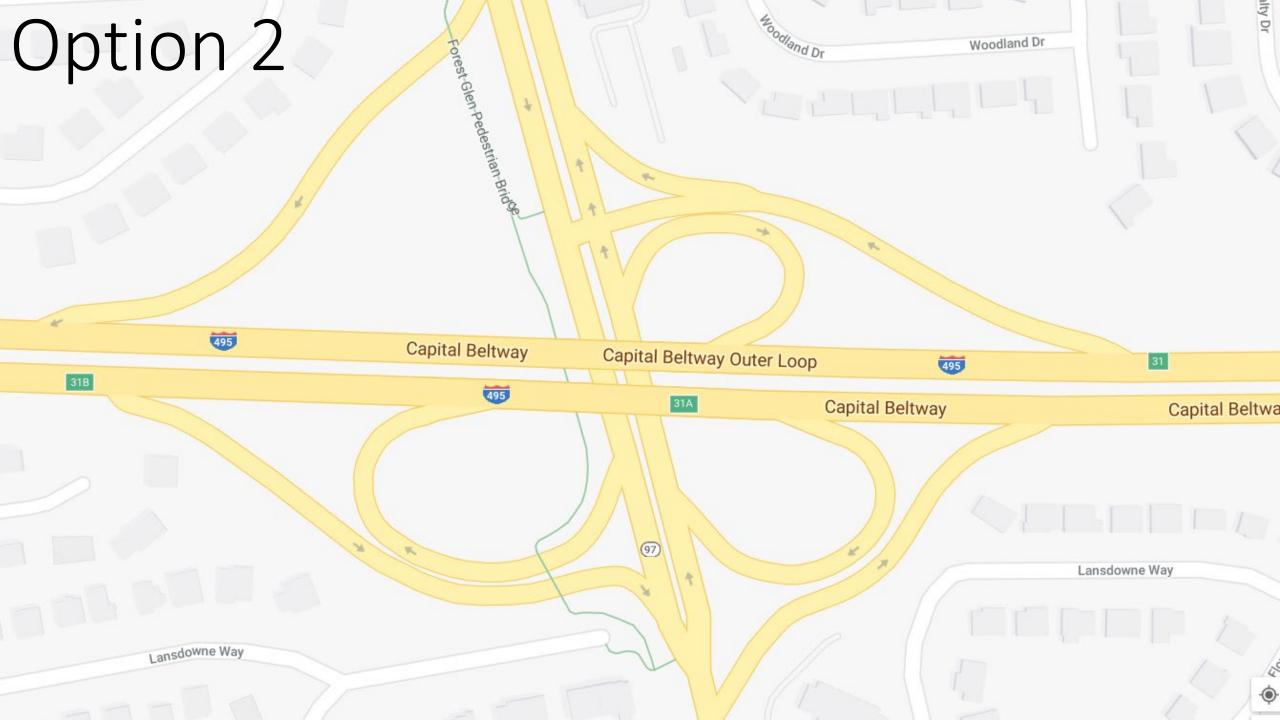
Beltway Ramp Reconfiguration

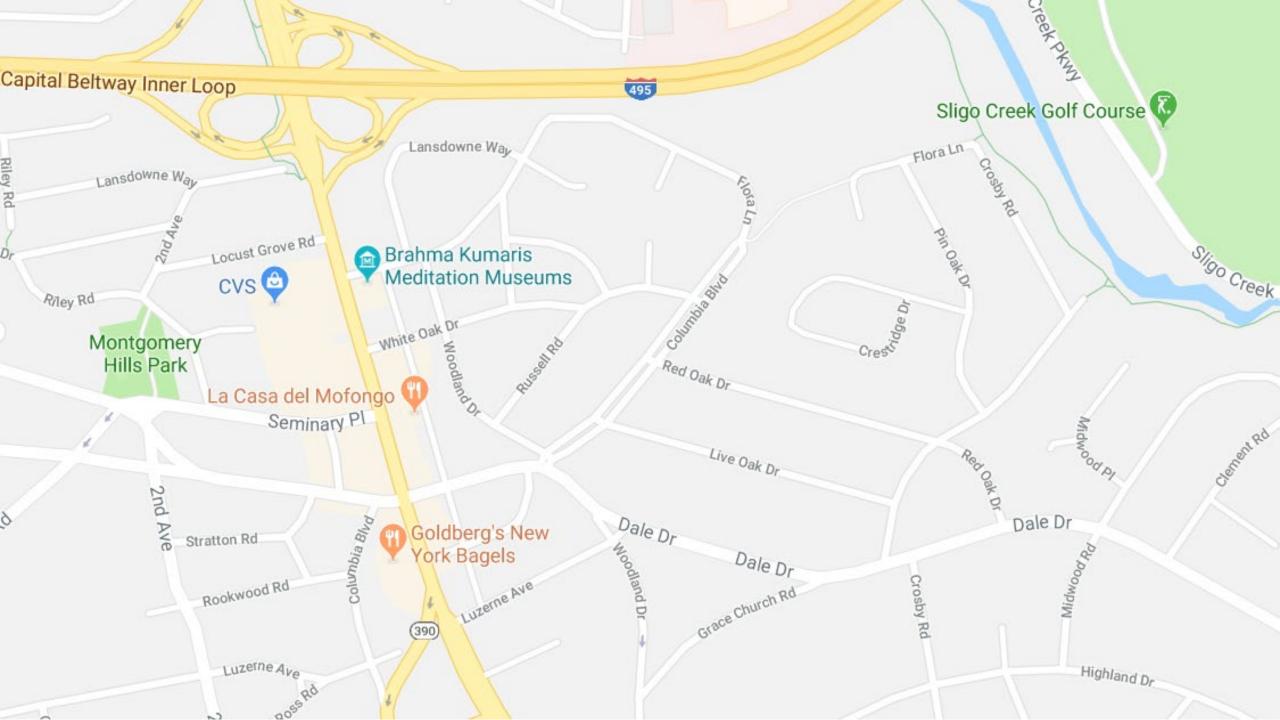
Benefits

- Improves Safety
- Eliminates weaving
- May reduce northbound backups
- Relatively inexpensive
- Comparatively easier to implement
- Could fit within existing MDSHA ROW
- Right turn on Inner Loop Off Ramp will be free flow
- Pedestrian Bridge unaffected

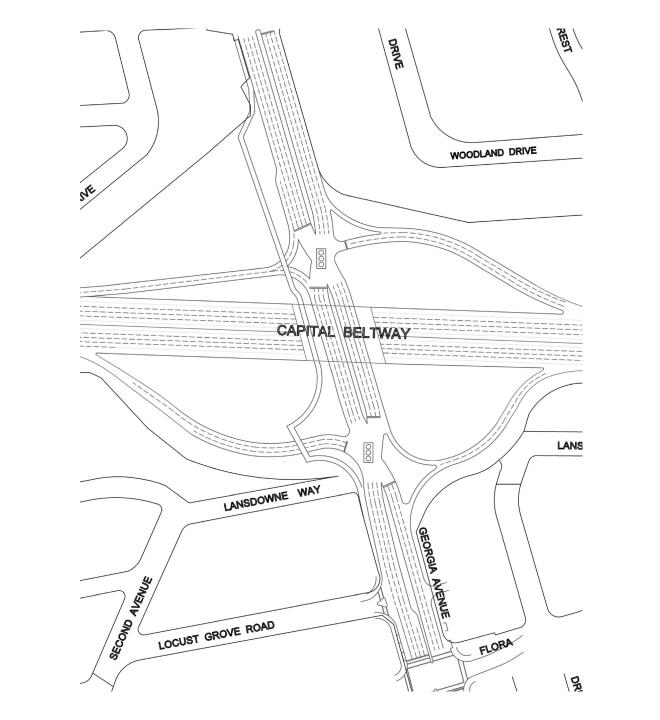
Considerations

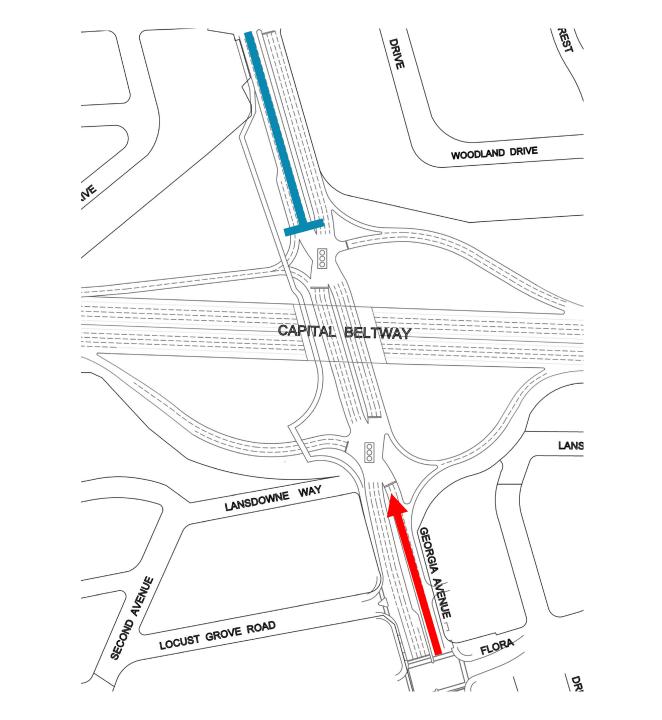
- Will likely reduce congestion northbound on Georgia Ave
- Induced travel demand may undermine potential congestion reduction
- Pedestrian signals will be needed on the east side to cross ramps, or a new bridge should be considered

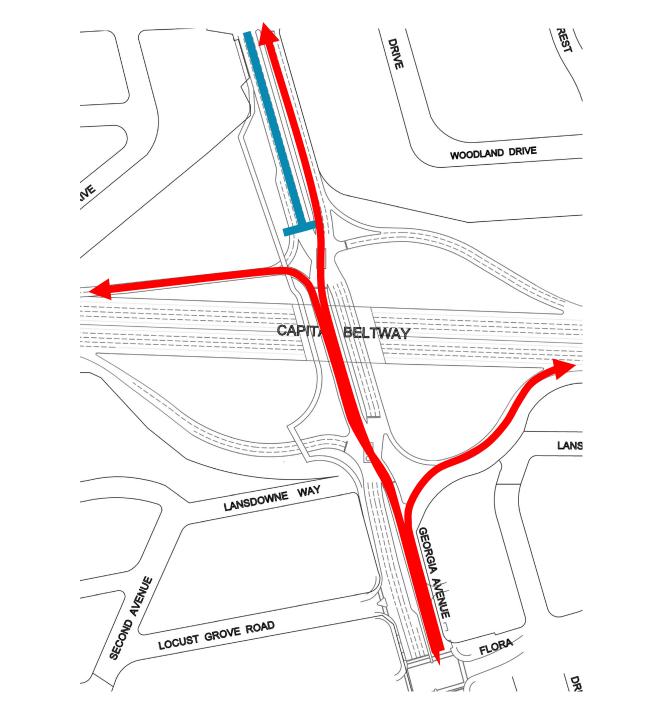


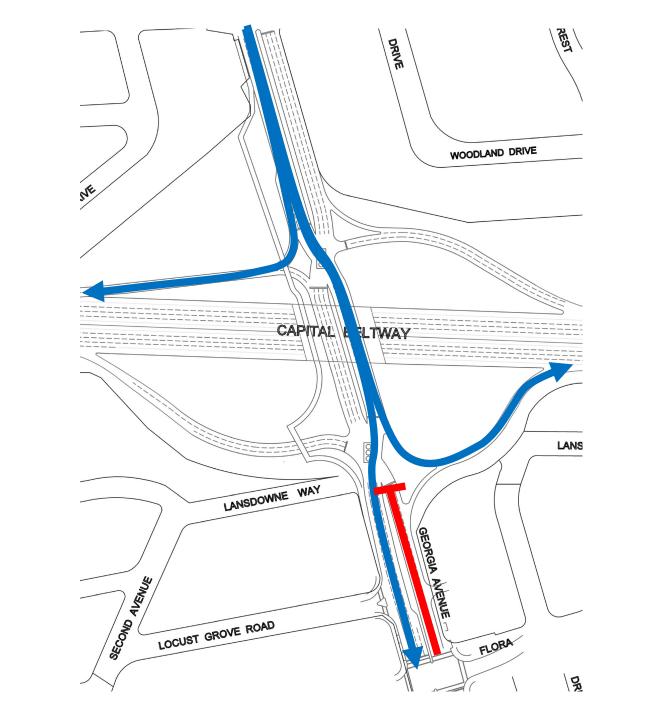


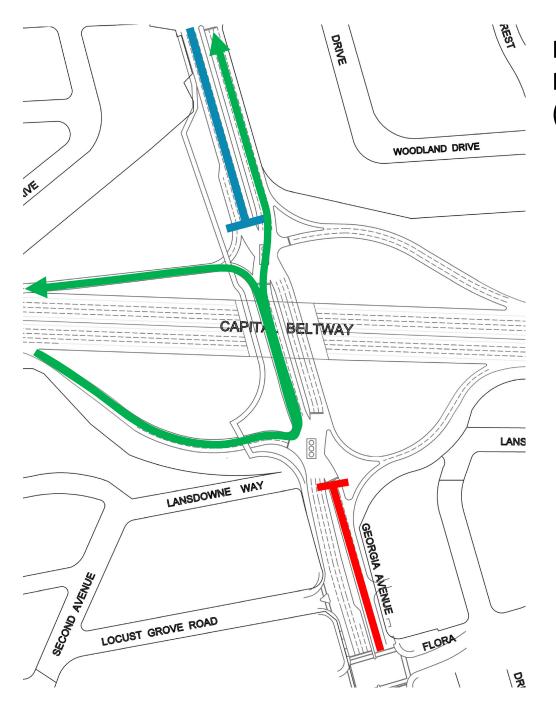




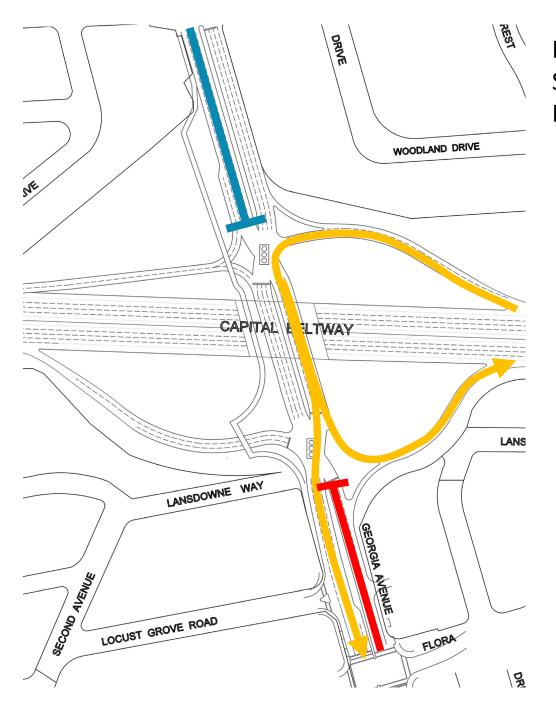




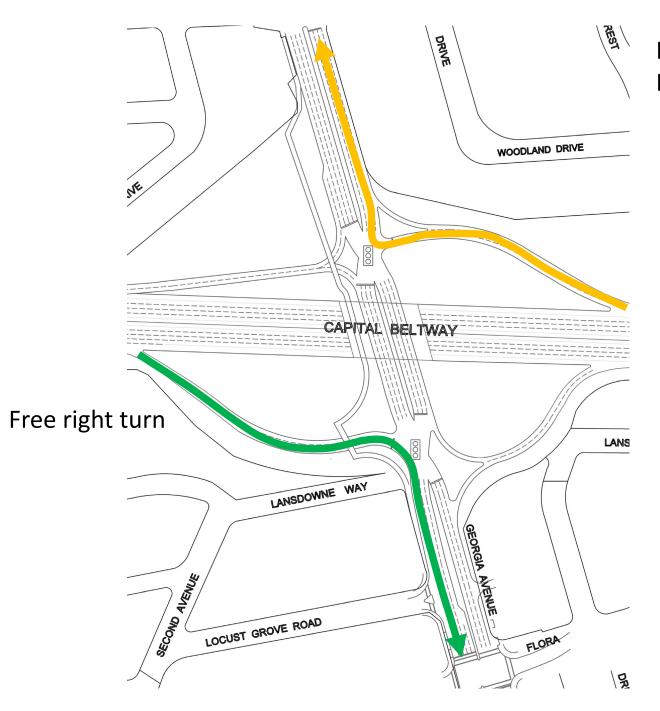




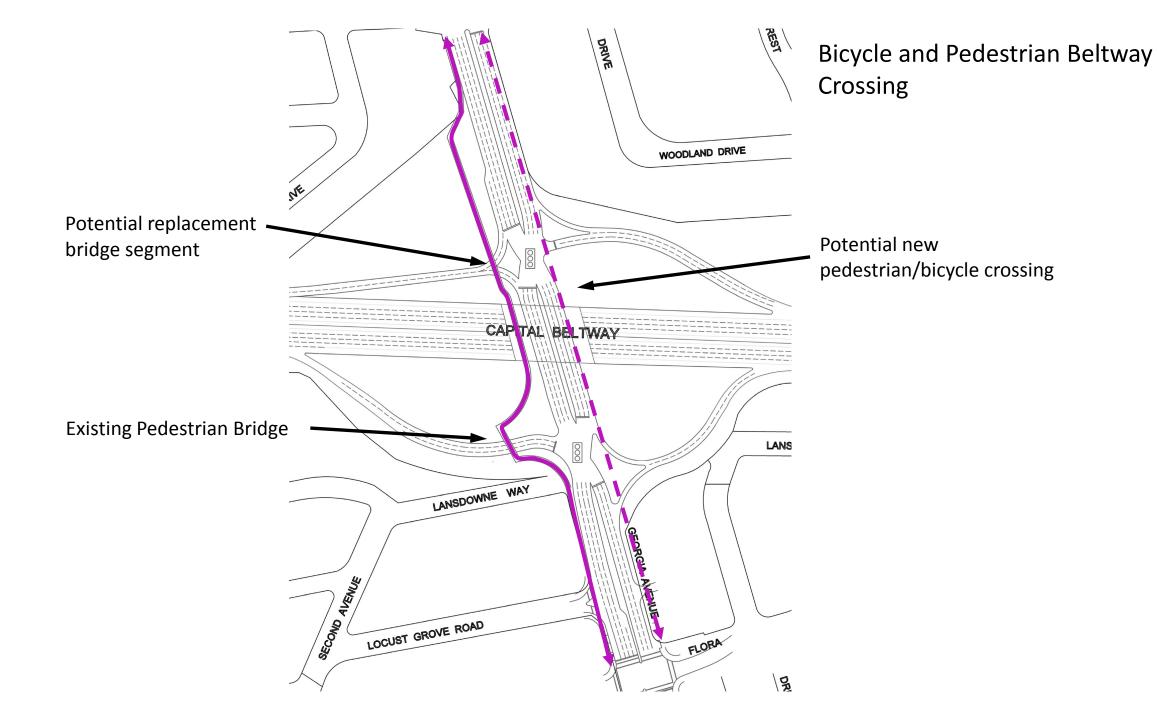
I 495 East (Inner Loop) to MD 97 North Bound and I 495 West (Outer Loop)



I 495 West (Outer Loop) to MD 97 South Bound and I 495 East (Inner Loop)



I 495 East to North and South MD 97



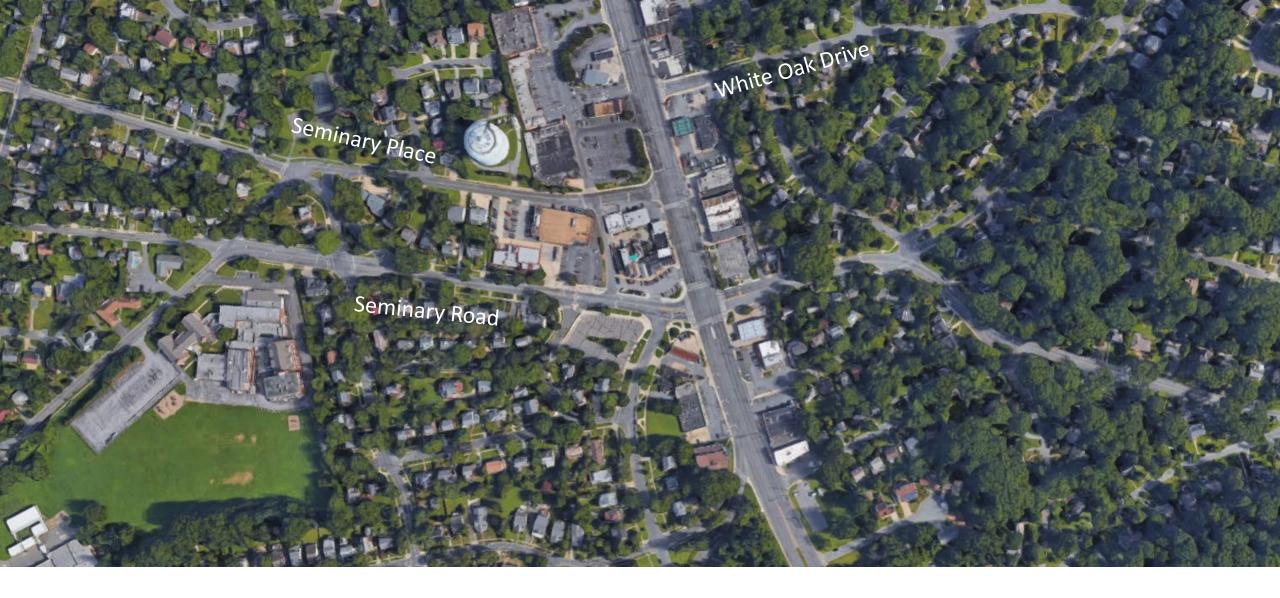
Diverging Diamond Interchange

Benefits

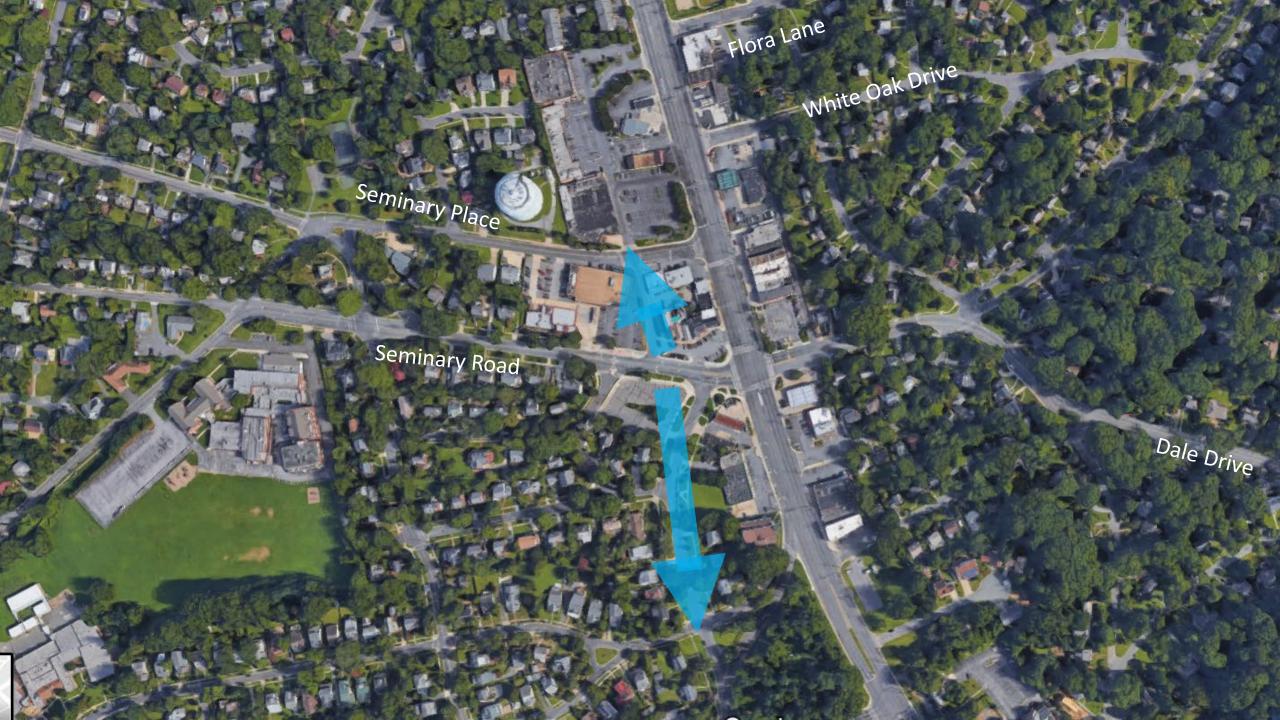
- Improves Safety
- Eliminates weaving
- Improves Reliability
- Could fit within existing MDSHA ROW
- Pedestrian bridge remains with modifications
- Reduces congestion

Considerations

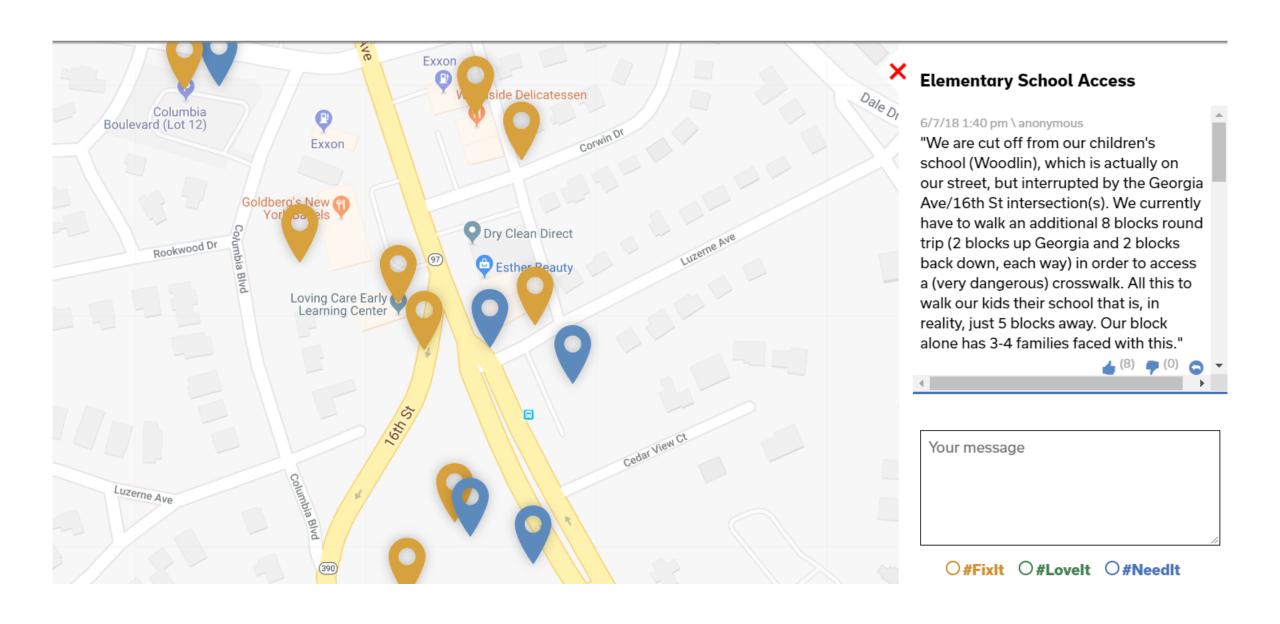
- Major design change
- Very Expensive
- Induced travel demand may undermine potential congestion reduction
- Pedestrian signals will be needed on the east side to cross ramps, or a new bridge should be considered



Montgomery Hills: Street Grid



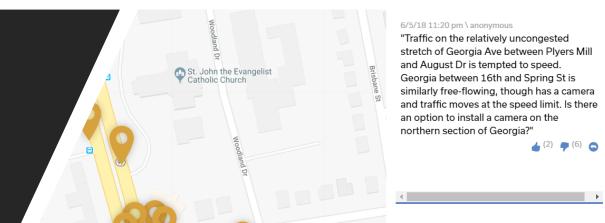






Vehicles Speeding in Forest Glen

"Traffic on the relatively uncongested stretch of Georgia Ave between Plyers Mill and August Drive is tempted to speed"



Your message



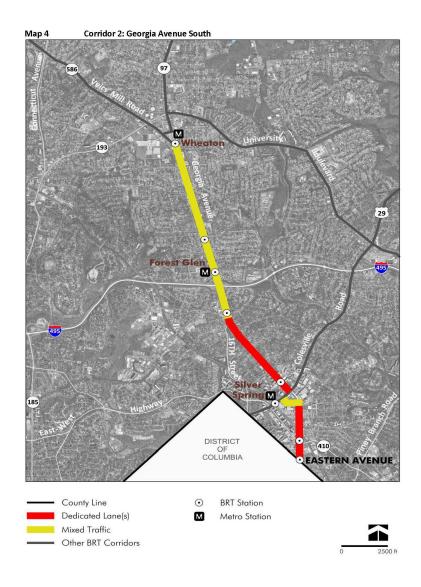






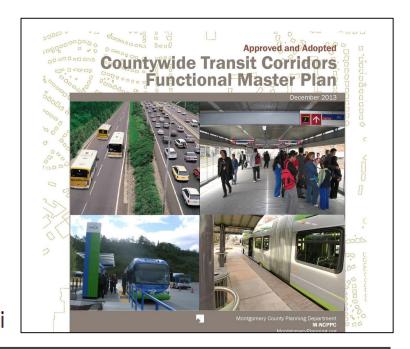


Addressing Vehicle Speeds



Station Locations

Wheaton Metro Station
MD 97 and Dexter Avenue
Forest Glen Metro Station
MD 97 and Seminary Road
MD 97 and Cameron Street
Silver Spring Transit Center
MD 97 and East West Highway
MD 97 and Eastern Avenue/Burli



Confirming BRT Recommendations



Recommendations Summary

- Improve the walking experience
 - Buffered sidewalks
 - Street trees
 - Underground utilities
- Improve crossings for all modes
 - Study new traffic controls at intersections
 - Forest Glen Passageway
- Provide a designated space for bicyclists



Recommendations Summary contd.

- Explore reconfigurations for the Beltway interchange to improve vehicle safety
- Explore reconfigurations for the Beltway to improve traffic flow on Georgia Ave
- With redevelopment, build a new street grid on the west side to improve mobility for all in Montgomery Hills
- Confirm CTC Master Plan (2013) Recommendations for BRT along Georgia Ave
- Reduce vehicle speeds
 - Enforcement
 - Traffic-calming road design

Next Steps

Follow up

Follow up on questions and feedback from tonight

Prepare

Prepare for

December 4, 2018

public meeting

with the whole

team

Deliver

Deliver preliminary recommendations to the **Planning Board December 6, 2018**

Present

Present Working
Draft Plan to the
Public and the
Board Early Spring
2019

SAVE THE DATE

Tuesday December 4, 2018

Present ALL Preliminary Recommendations to the Public

Thursday December 6

Present ALL Preliminary
Recommendations to the <u>Planning</u>
<u>Board</u>