



www.VirginiaDOT.org

Public Information Meeting

# I-395 Shirlington Interchange Improvements Study Arlington County and City of Alexandria

**Monday, May 21, 2018**

**6:30 p.m. to 8:30 p.m.**

**Presentation at 7 p.m.**

Fairlington Community Center

3308 S. Stafford Street

Arlington, VA 22206

## Public Information Meeting

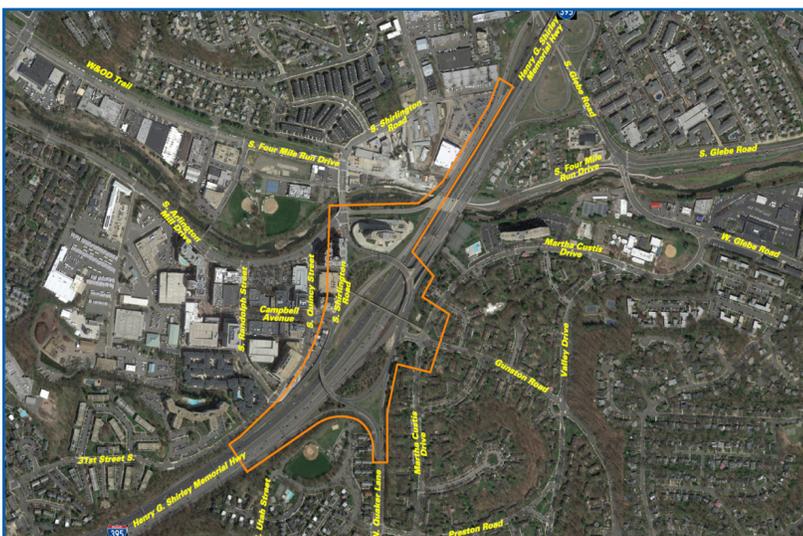
Welcome to the Virginia Department of Transportation's (VDOT) public information meeting on plans to study safety and operational improvements at the I-395 Shirlington interchange (Exit 6) in Arlington County. We look forward to your active participation.

This meeting is being held to provide an opportunity for citizens and organizations to give VDOT comments and/or suggestions on the proposed project. VDOT strives to ensure that all members of the community have the opportunity

to participate in public decisions on transportation projects and programs affecting them.

VDOT representatives are here to discuss the project and answer your questions. We've included a comment sheet in this brochure and encourage your input. All written comments received on this study will be reviewed by the design team, summarized and made available on the VDOT project website.

## Study at a Glance



**Purpose:** Assess operations and safety for the I-395 Shirlington interchange and identify potential alternatives

**Lengths and Limits:** Shirlington interchange to Glebe Road

**Phase:** Study

**Begin Date:** Summer 2015

**Completion Date:** Late Fall 2018

**Cost:** \$1.6 million

## Study Overview

This study includes the I-395 (Henry G. Shirley Memorial Highway) and South Shirlington Road interchange, the I-395 southbound ramp from Glebe Road (Route 120), and the intersections adjacent to the interchange.

The goals of the study include:

- Improving safety and operations of the interchange
- Evaluating operational analysis
- Assessing cost estimates and feasibility for alternatives

In 2016, data on traffic volumes and vehicle movements was collected to identify safety and operational issues. Alternatives have been identified which aim to reduce congestion, crashes, and boost the interchange's overall performance. Over the next several months these alternatives will be refined and analyzed, with another public information meeting later this fall.

## Civil Rights

VDOT ensures nondiscrimination and equal employment in all programs and activities in accordance with Title VI and Title VII of the Civil Rights Act of 1964. If you need more information or special assistance for persons with disabilities or limited English proficiency, contact Olivia Daniszewski, EIT at 703-259-2318 or TTY/TDD 711.

## Get Involved

VDOT will review and evaluate any information received as a result of the public information meeting. The comment sheet and brochure is provided to assist in making your comments. You may leave the sheet or any other written comments in the comment box, or mail/email your comments.

Comments must be postmarked, emailed or delivered to VDOT by **May 31, 2018**. Mail comments to Olivia Daniszewski, EIT at the address below or email [meetingcomments@vdot.virginia.gov](mailto:meetingcomments@vdot.virginia.gov).

## Environmental Review

In cooperation with the Federal Highway Administration (FHWA) and in accordance with the National Environmental Policy Act (NEPA) and 23 CFR 771, VDOT will be initiating an environmental study to evaluate potential impacts to socio-economic, natural and historic resources. VDOT will coordinate the appropriate federal, state and local agencies as part of the environmental review and approval process required during the project design development.

## Right of Way

Preliminary alternatives presented on the displays are conceptual and may change as the study and concepts are refined. Property owners would be informed of the exact location of any easements during the right of way acquisition process and prior to construction.

Information about right of way purchase is discussed in VDOT's brochure, "Right of Way and Utilities: Guide for Property Owners and Tenants." Copies of this brochure are available here from VDOT personnel.

After this meeting, information regarding right of way may be obtained from the right of way contact listed on the back of this brochure.

## Contact Information

**Primary Contact:**  
**Olivia Daniszewski, EIT**

Preliminary Engineering

4975 Alliance Drive  
Fairfax, VA 22030

703-259-2318



Fold Line

Postal Service  
will not  
deliver without  
a stamp

Virginia Department of Transportation  
Northern Virginia District  
Ms. Olivia Daniszewski, EIT  
4975 Alliance Drive  
Fairfax, VA 22030

Fold Line



# I-395 SHIRLINGTON ROAD INTERCHANGE IMPROVEMENTS STUDY

Public Information Meeting

 Project Team

May 21<sup>st</sup>, 2018

# Agenda

- **Introductions**
  - Nicholas Roper, P.E.
- **Study Purpose & Status**
  - Olivia Daniszewski, E.I.T.
- **Selected Alternatives**
  - Tim Ramey, P.E.
- **Plan & Funding**
  - Olivia Daniszewski, E.I.T.
- **Questions & Answers**

# Purpose of Tonight's Public Information Meeting

- Present purpose and scope of the study
- Present alternatives moving forward for further analysis
- Receive comments from the public on the alternatives

# Study Limits

- The I-395 Shirlington interchange
- The ramp from Glebe Road (Route 120) to southbound I-395
- The intersection of Shirlington Road and Arlington Mill Drive
- The intersection of Gunston Road and Martha Custis Drive



# Agenda

- Introductions
  - Nicholas Roper, P.E.
- **Study Purpose & Status**
  - **Olivia Daniszewski, E.I.T.**
- Selected Alternatives
  - Tim Ramey, P.E.
- Schedule & Funding
  - Olivia Daniszewski, E.I.T.
- Questions & Answers

# Study Purpose & Goal

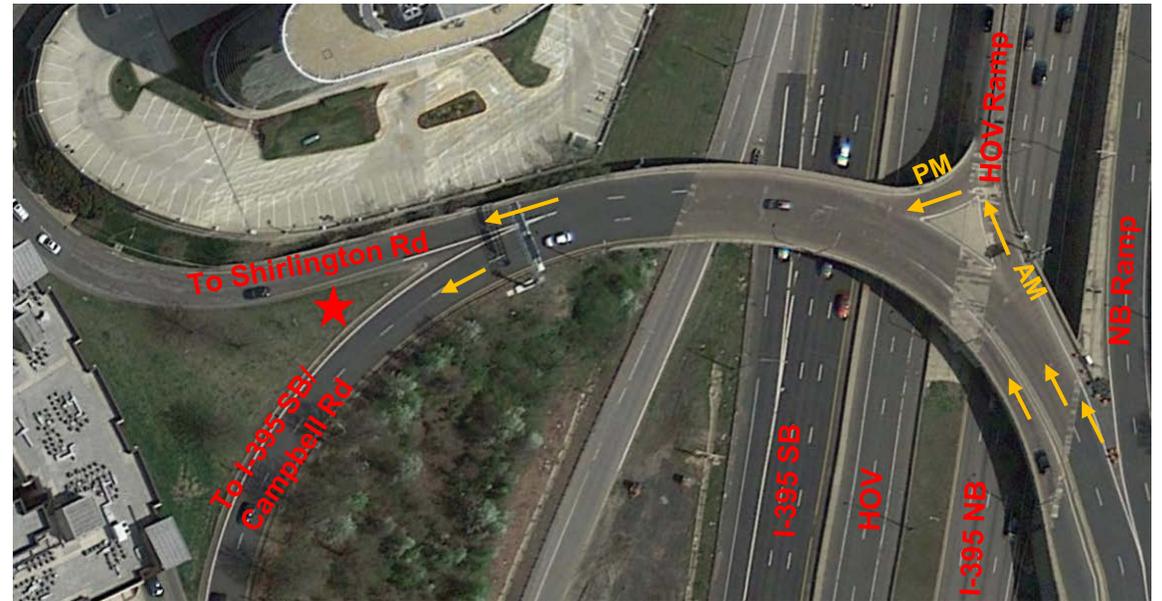
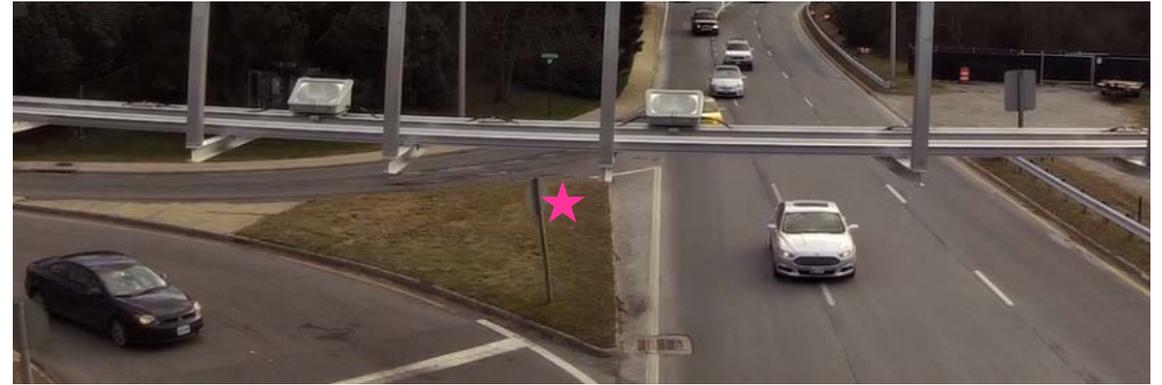
- Identify safety & operational issues
- Develop recommendations for the operations & safety improvements
- Address residents' concerns & incorporate feedback

Your input is important to this study.



# Study Status

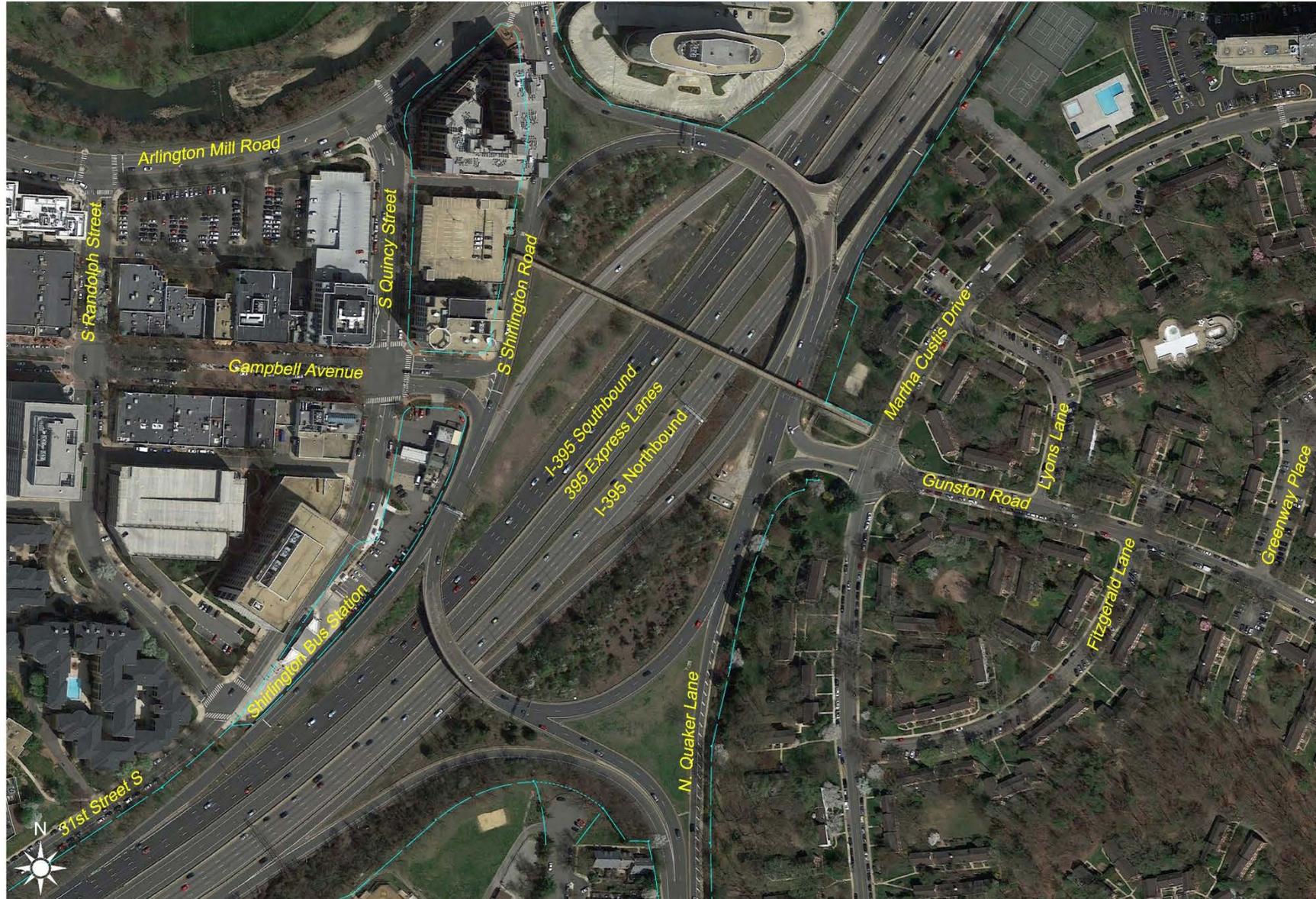
- Collected data, identified safety and operational issues
- Identified potential improvements and solicited feedback from our local government partners
- Detailed analysis and conceptual plans of the alternatives:
  - 6 alternatives focus on Shirlington Road rotary (S - #)
  - 2 alternatives focus on Glebe Road ramp (G - #)



# Agenda

- Introductions
  - Nicholas Roper, P.E.
- Study Purpose & Status
  - Olivia Daniszewski, E.I.T.
- **Selected Alternatives**
  - **Tim Ramey, P.E.**
- Schedule & Funding
  - Olivia Daniszewski, E.I.T.
- Questions & Answers

# I-395 Shirlington Road Interchange



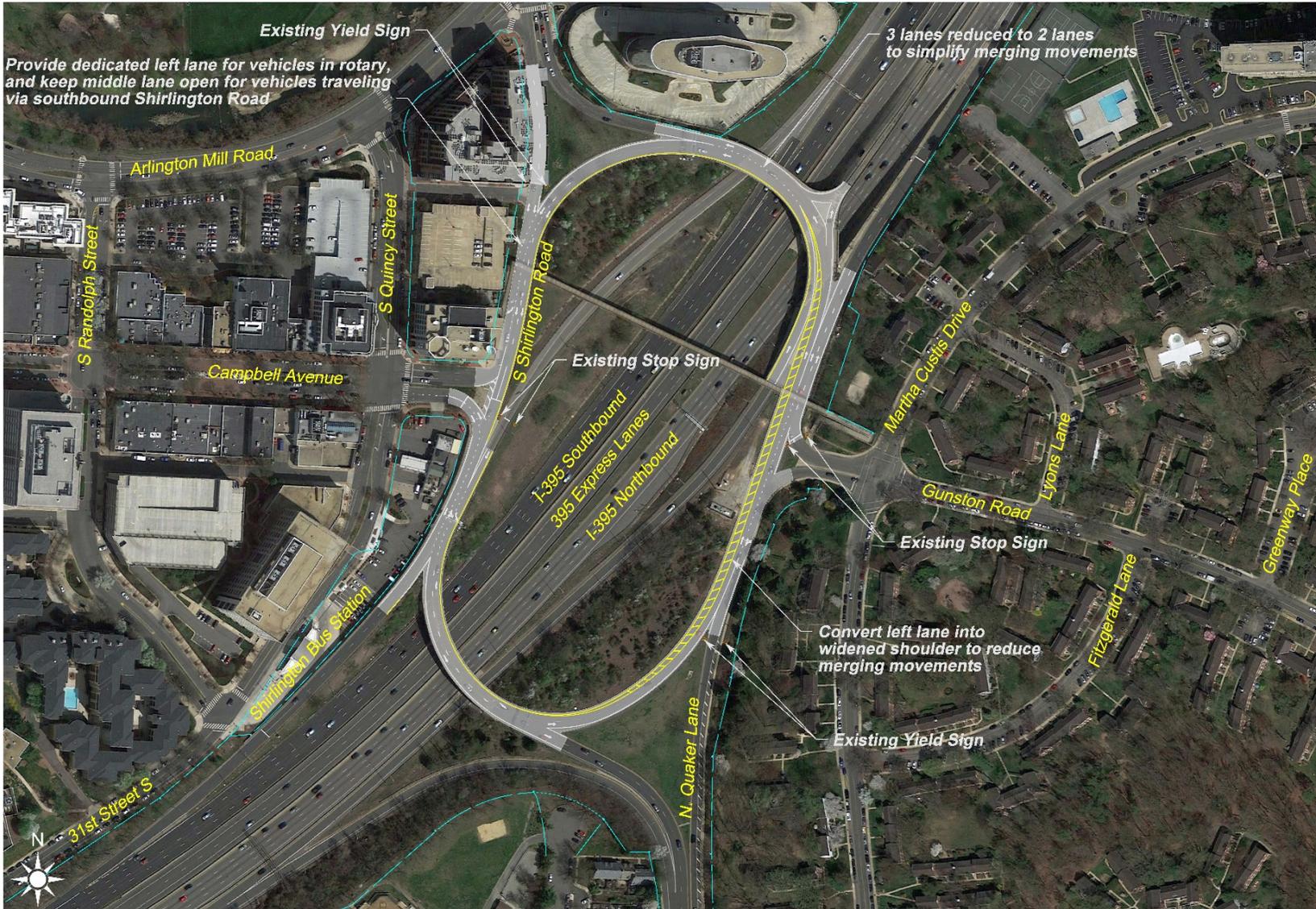
# Alternative S-1: Reduce & Repurpose Existing Lanes



## Existing Conditions:

- Mix of high and low speed entrances to the rotary (areas shown in red)
- Several multi-lane weave movements

# Alternative S-1: Reduce & Repurpose Existing Lanes



## Proposed Alternative:

- Repurpose existing lanes and eliminate low-volume lanes to reduce weave movements

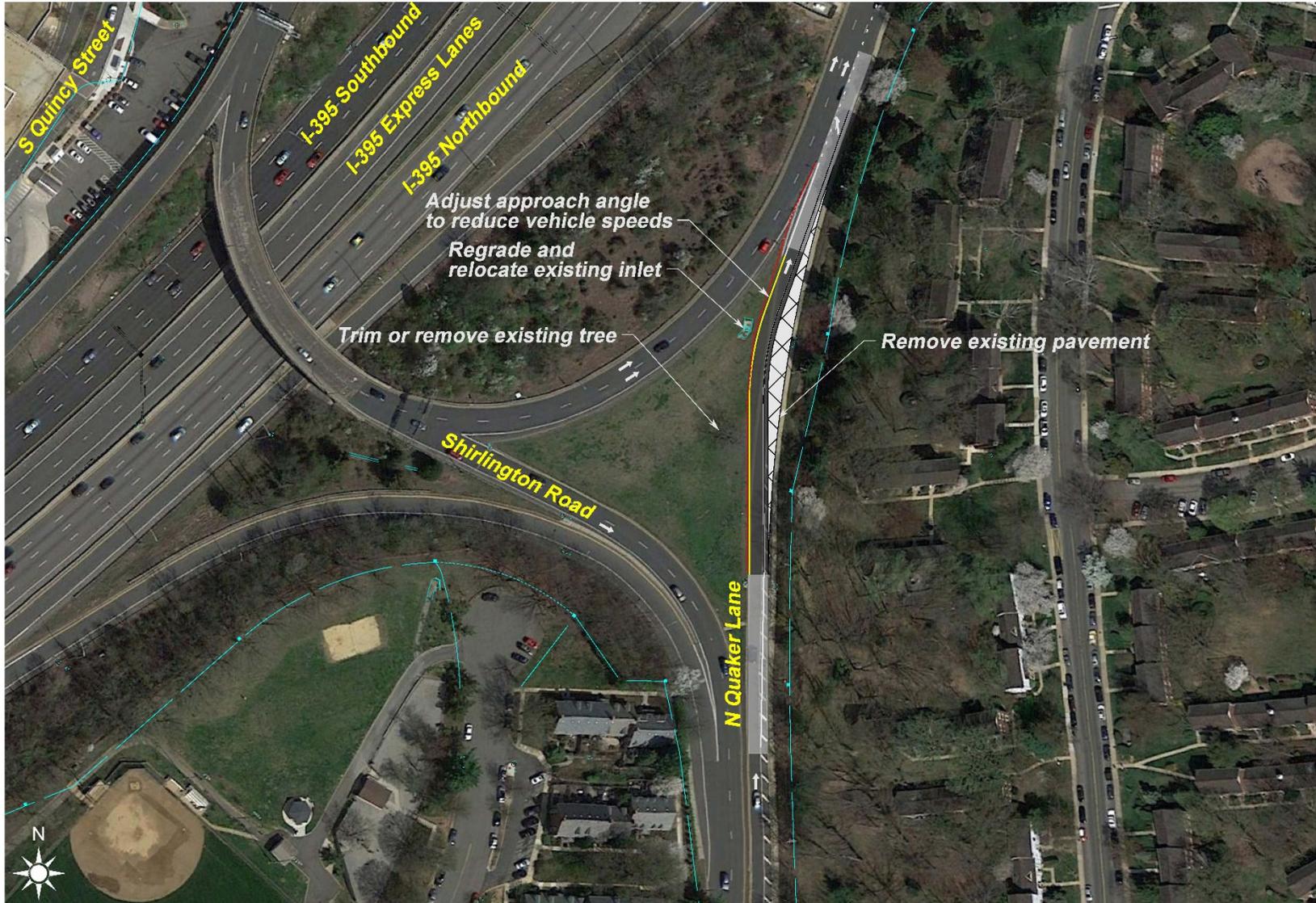
# Alternative S-2: Realign Quaker Lane Ramp



## Existing Conditions:

- Several key movements in area:
  - Rotary traffic merges to the right to Gunston Road or I-395 NB
  - Quaker Lane merges into the rotary
- High speeds of traffic entering interchange from Quaker Lane (area shown in red)
- **Crash Hot Spot**

# Alternative S-2: Realign Quaker Lane Ramp



## Proposed Alternative:

- Realign and adjust the approach angle of Quaker Lane ramp to reduce speeds of traffic entering the interchange

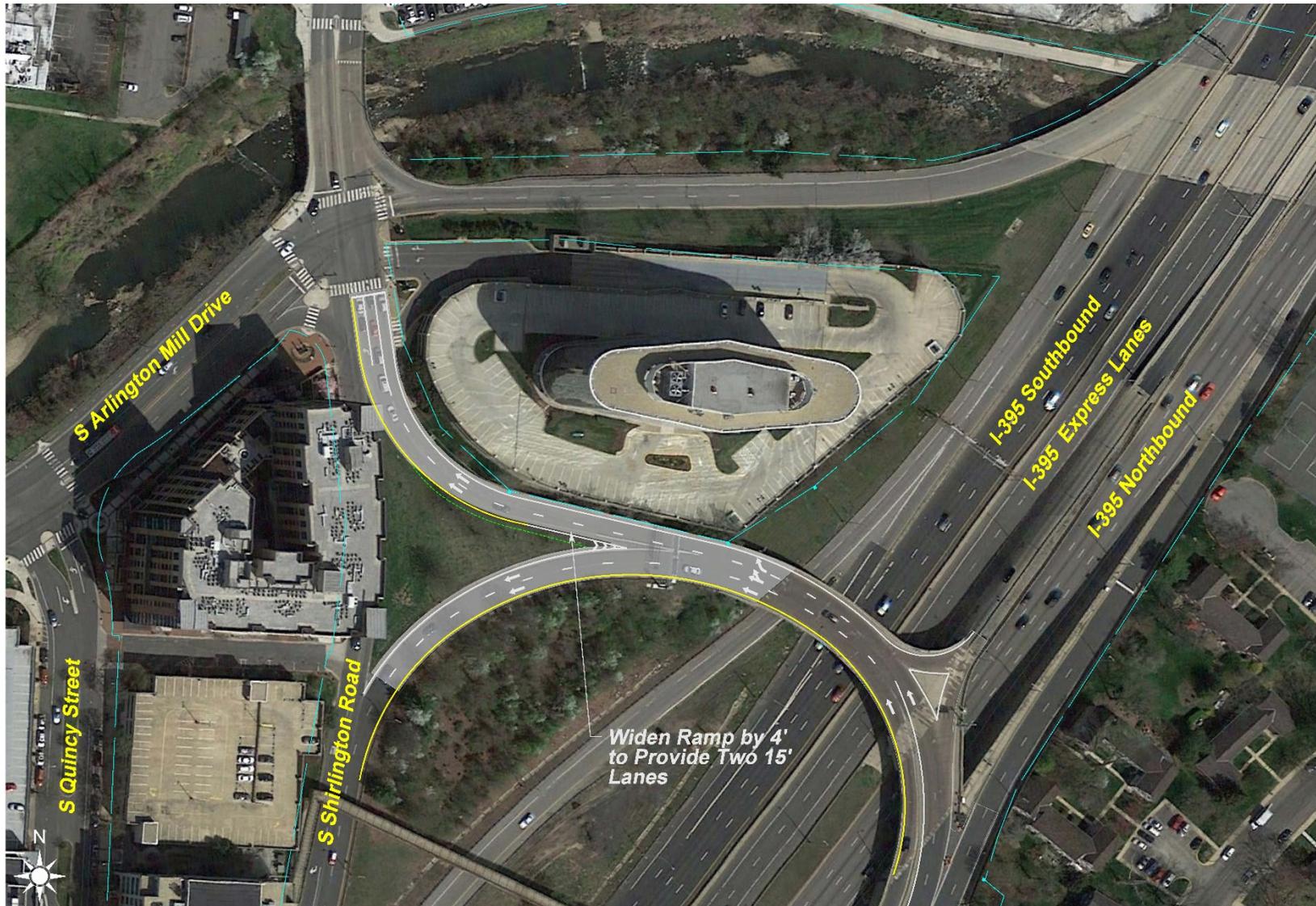
# Alternative S-3: Add Lane to Arlington Mill Drive Exit



## Existing Conditions:

- Several decision points and weaving movements over a short distance:
  - Both Express Lanes exit and I-395 NB off-ramp traffic entering rotary
  - Rotary traffic to Arlington Mill Drive, Campbell Avenue or I-395 SB
- Limited advanced signing and sight distance
- High speeds of traffic (area shown in red)

# Alternative S-3: Add Lane to Arlington Mill Drive Exit



## Proposed Alternative:

- Add a lane to Arlington Mill Drive exit to reduce number of weaving movements

# Alternative S-4: Create Signalized T-Intersection with Rotary & Quaker Lane



## Existing Conditions:

- Several key movements in area:
  - Rotary traffic merges to the right to Gunston Road or I-395 NB
  - Quaker Lane merges into the rotary
- High speeds of traffic entering interchange from Quaker Lane (area shown in red)
- **Crash Hot Spot**

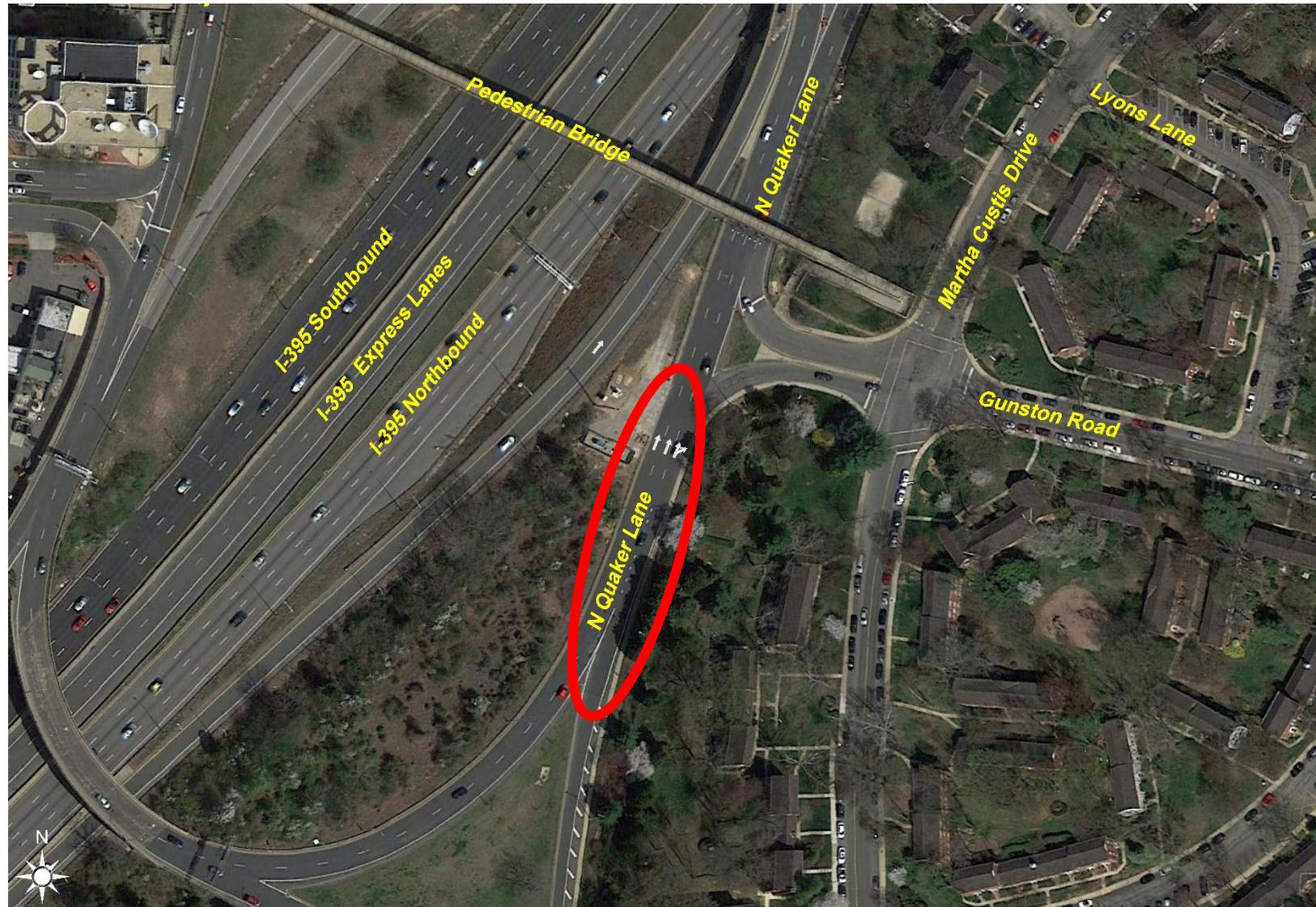
# Alternative S-4: Create Signalized T-Intersection with Rotary & Quaker Lane



## Proposed Alternative:

- Create signalized T-intersection with rotary and Quaker Lane to:
  - Eliminate weave from rotary to Gunston Road
  - Control Quaker Lane traffic speeds

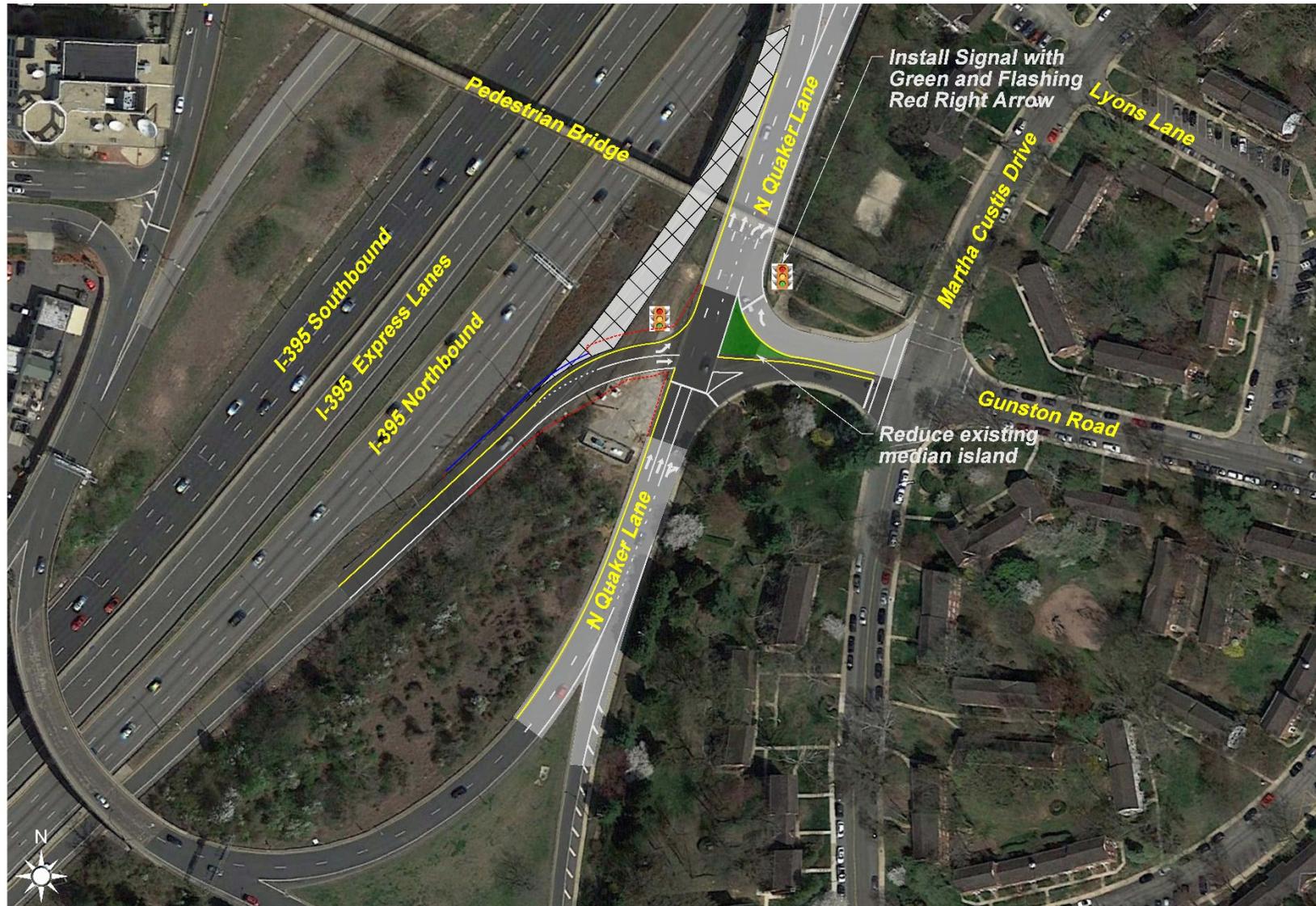
# Alternative S-5: Create Signalized Intersection with I-395 NB Off-Ramp & Gunston Rd



## Existing Conditions:

- I-395 NB Off-Ramp exits to area with several weaves over a short distance
- Quaker Lane merges into the rotary where rotary traffic weaves to the right to Gunston Road or I-395 NB
- High speeds of traffic entering interchange from Quaker Lane (area shown in red)

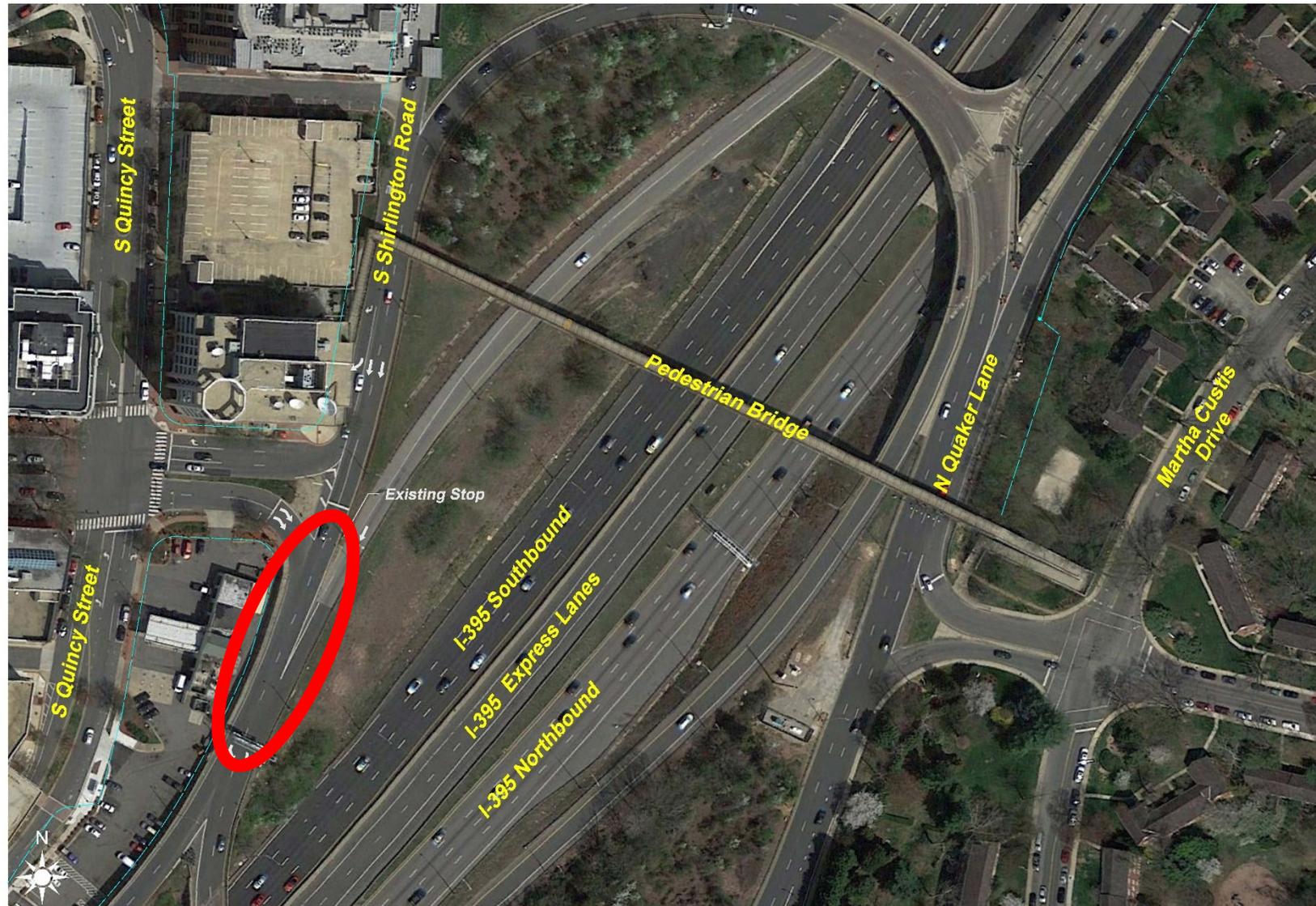
# Alternative S-5: Create Signalized Intersection with I-395 NB Off-Ramp & Gunston Rd



## Proposed Alternative:

- Convert I-395 NB off-ramp to an intersection with Gunston Road to:
  - Control speeds
  - Remove weaves

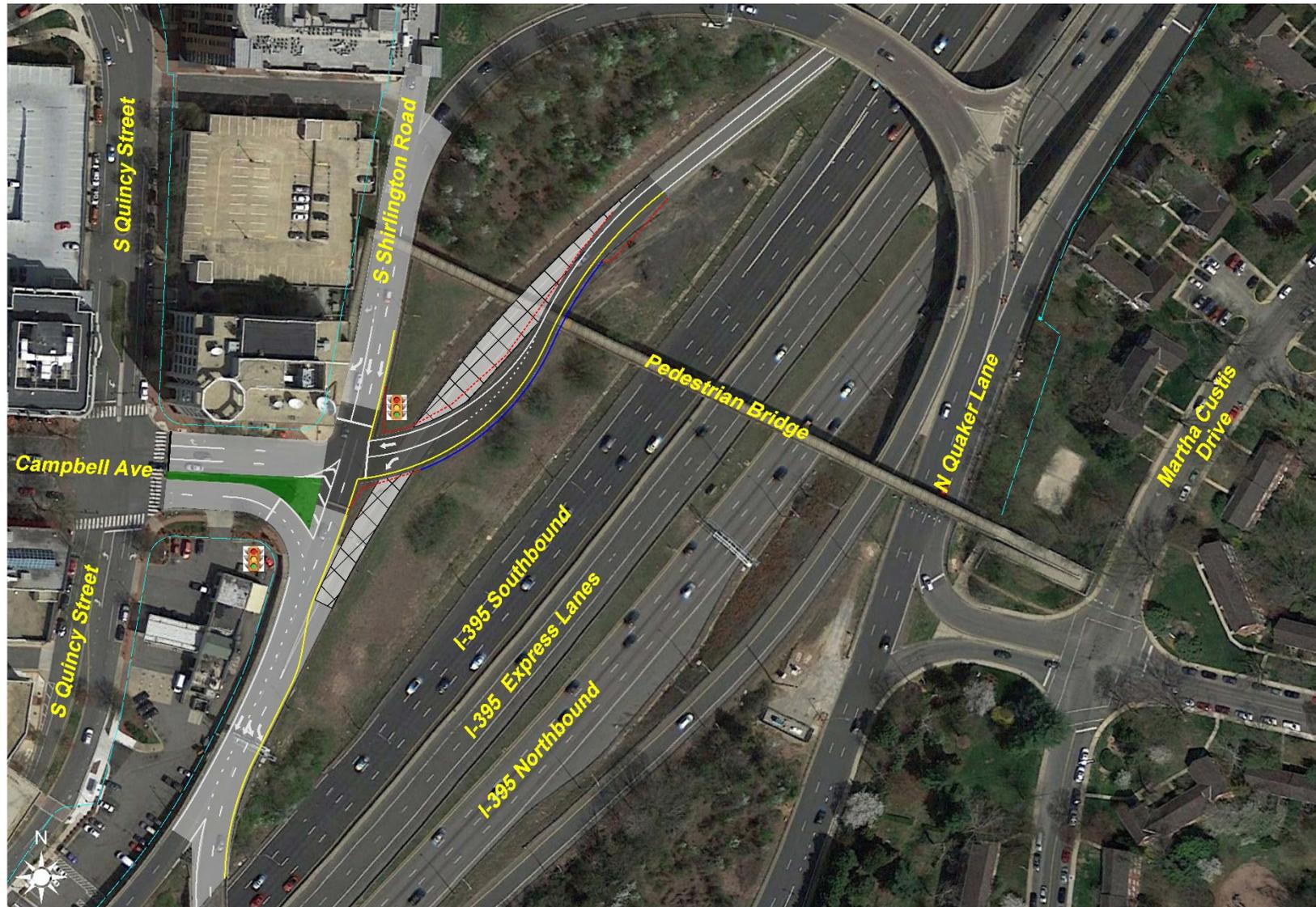
# Alternative S-6: Create Signalized Intersection with I-395 SB Off-Ramp & Campbell Ave



## Existing Conditions:

- Campbell Ave traffic has short weave area to continue into rotary (area shown in red)
- Queue jumpers
- Some I-395 southbound traffic exits for Quaker Lane but then merges back onto I-395 SB

# Alternative S-6: Create Signalized Intersection with I-395 SB Off-Ramp & Campbell Ave



## Proposed Alternative:

- Convert I-395 SB off-ramp to an intersection with Campbell Avenue to:
  - Control speeds
  - Remove weaves

# Two Example Improvements



The recommended improvements may combine alternatives:

- **Alternative S-3: Add Lane to Arlington Mill Drive Exit**
- **Alternative S-4: Create Signalized T-intersection with Rotary & Quaker Lane**

# Two Example Improvements



The recommended improvements may combine alternatives:

- **Alternative S-5: Create Signalized Intersection with I-395 NB Off-Ramp & Gunston Road**
- **Alternative S-6: Create Signalized Intersection with I-395 SB Off-Ramp & Campbell Avenue**

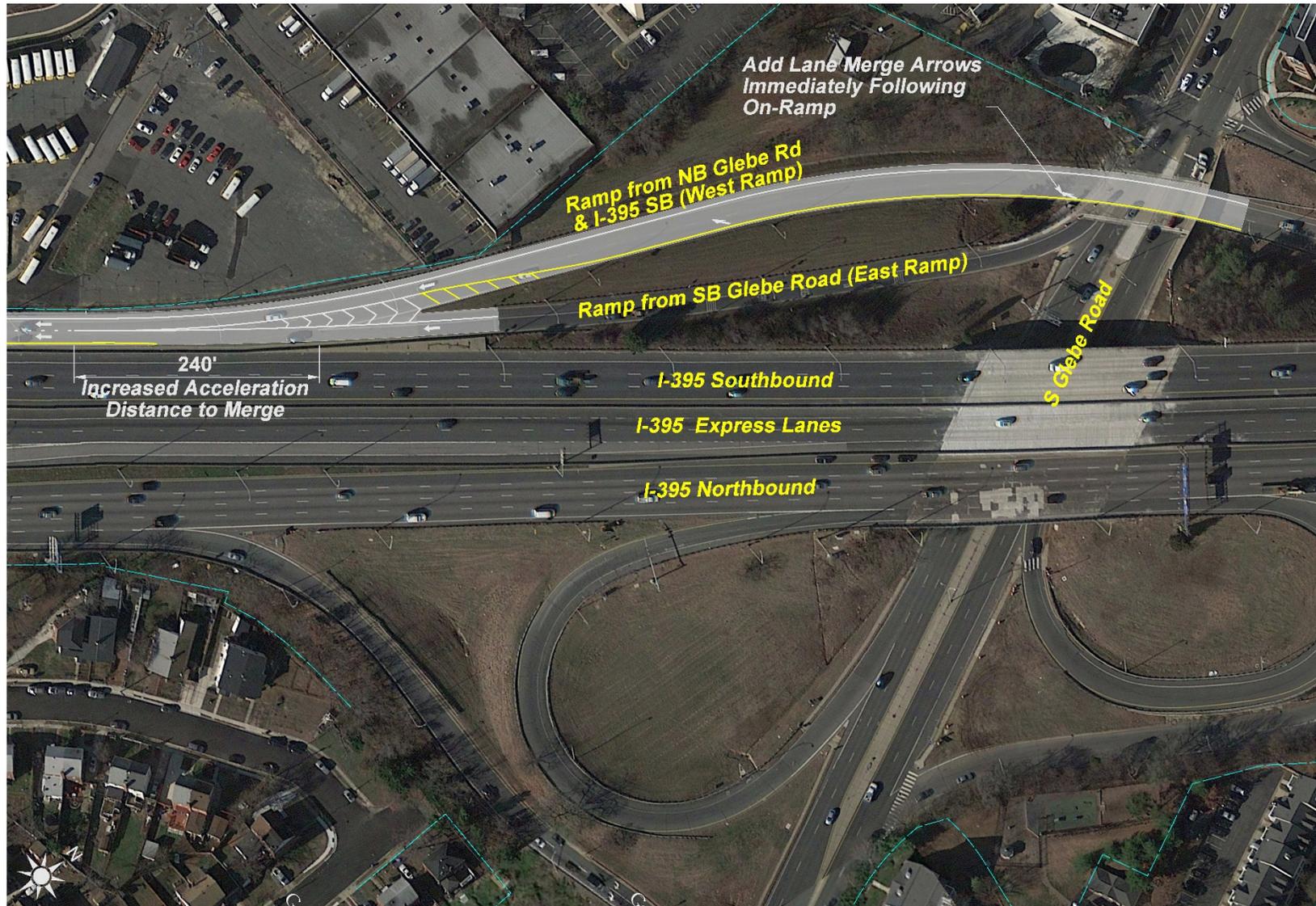
# Alternative G-1: Merge 2-lane West Ramp to 1-lane



## Existing Conditions:

- Queued traffic on the East Ramp has an extremely short acceleration distance (<100') to get up to speed with the West Ramp
- High speeds of traffic on the West Ramp increases the difficulty for the East Ramp to successfully merge after stopping
- Limited sight distance for East Ramp
- Crash Hot Spot

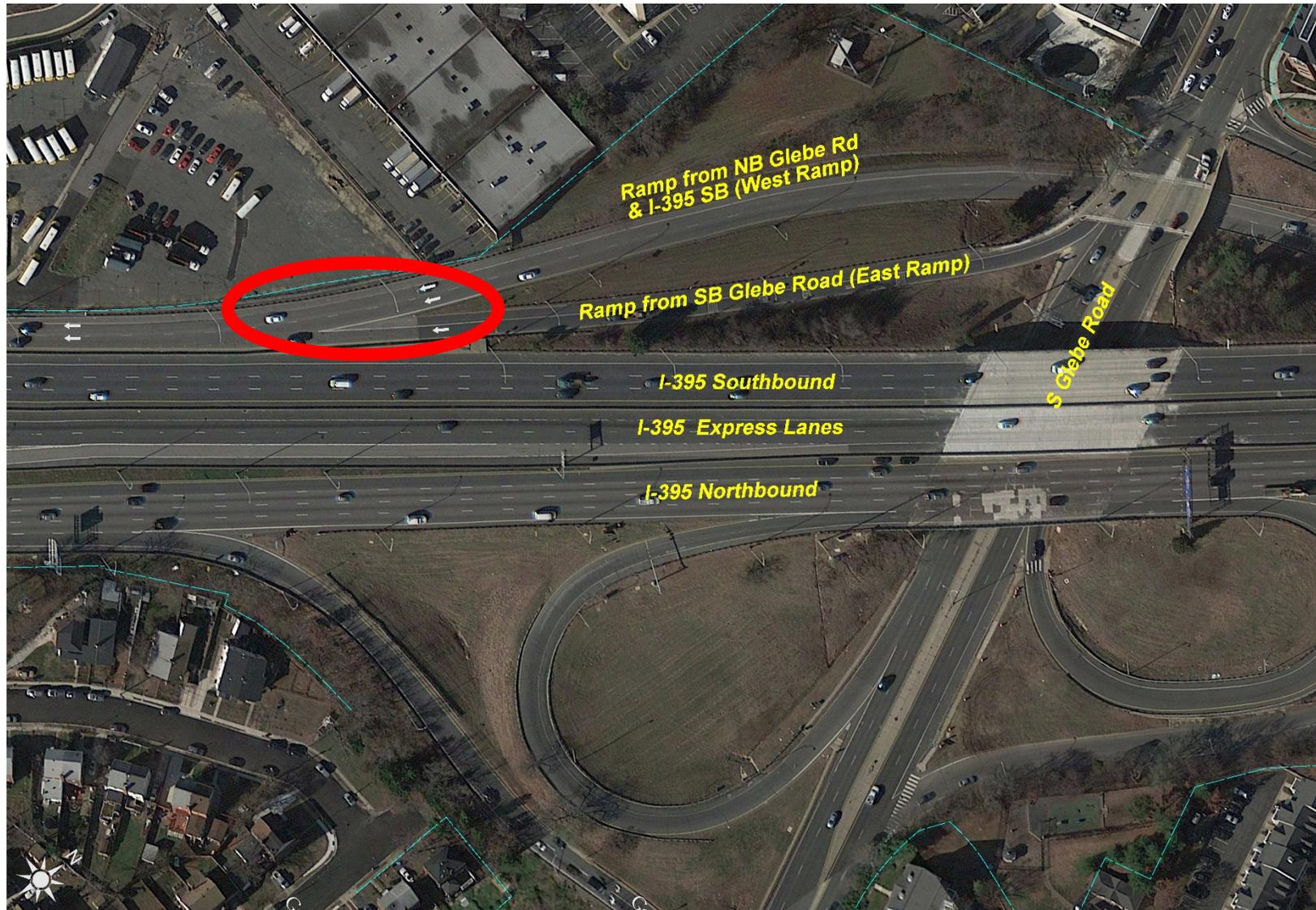
# Alternative G-1: Merge 2-lane West Ramp to 1-lane



## Proposed Alternative:

- Merge 2-lane West Ramp to 1-lane prior to East Ramp to increase acceleration distance to merge

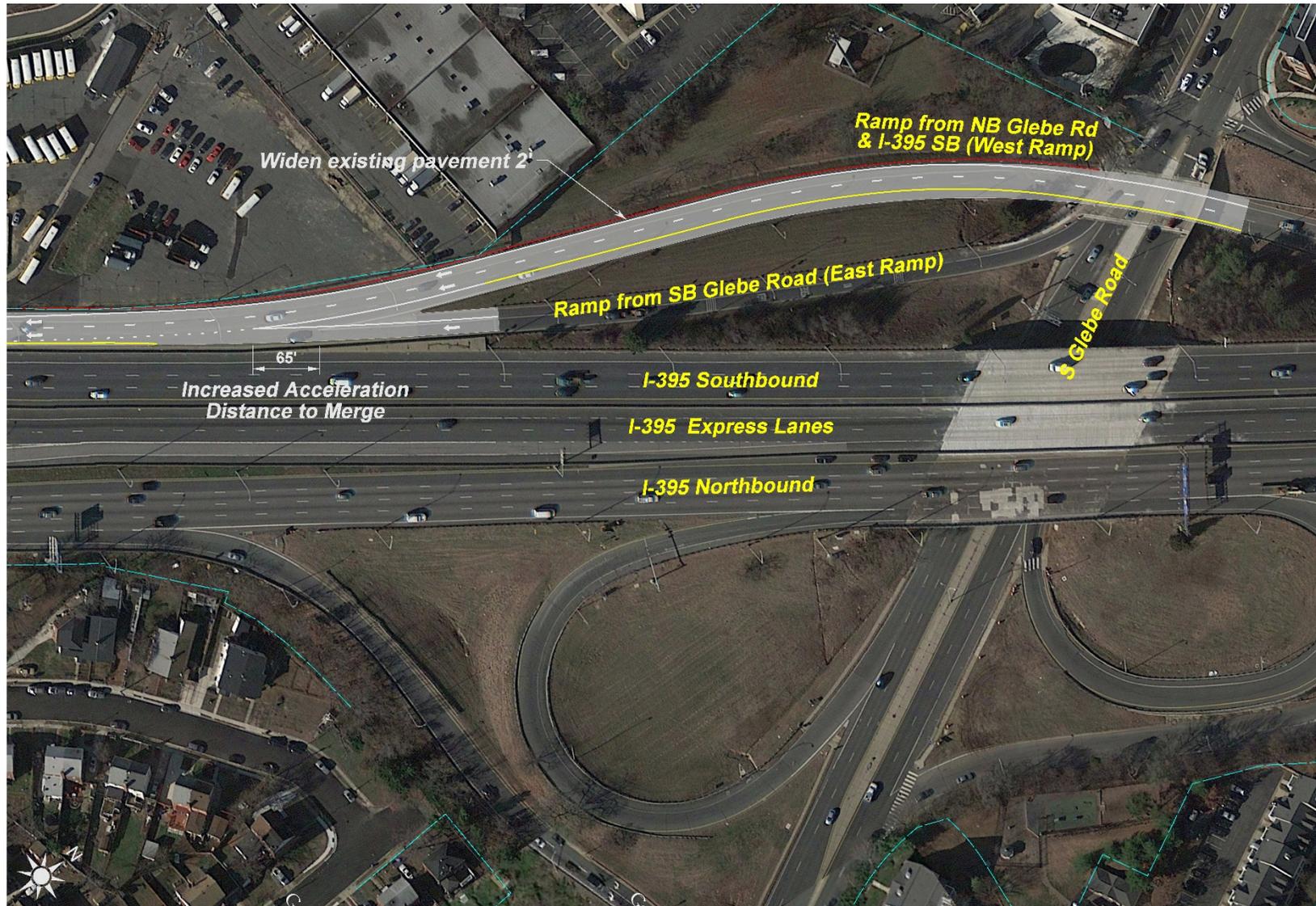
# Alternative G-2: Shift West Ramp to Shoulder



## Existing Conditions:

- Queued traffic on the East Ramp has an extremely short acceleration distance (<100') to get up to speed with the West Ramp
- High speeds of traffic on the West Ramp increases the difficulty for the East Ramp to successfully merge after stopping
- Limited sight distance for East Ramp
- Crash Hot Spot

# Alternative G-2: Shift West Ramp to Shoulder



## Proposed Alternative:

- Shift West Ramp to right shoulder to increase acceleration distance to merge

# General Improvements

- **Repair and replace existing interchange lighting**
- **Refresh pavement markings**
- **Increase or move advanced signing in areas where short weave lengths exist**
  - **Arlington Mill Road and I-395 SB split**
- **Clear overgrown vegetation to increase sight distance and decision timing**

# Agenda

- Introductions
  - Nicholas Roper, P.E.
- Study Purpose & Status
  - Olivia Daniszewski, E.I.T.
- Selected Alternatives
  - Tim Ramey, P.E.
- **Schedule & Funding**
  - **Olivia Daniszewski, E.I.T.**
- Questions & Answers

# Schedule & Funding

- **Interim Public Information Meeting** **May 21, 2018**
- **End of Public Meeting Comment Period** **May 31, 2018**
- **Analysis of Alternatives** **Summer 2018**
- **Final Public Information Meeting** **Fall 2018**
- **Issue Final Report** **Late Fall 2018**
- **Budget** **\$1.6 Million**

# Next Steps for the Study

- Operational Analysis
- Cost Estimates
- If funded, this effort could move forward as a Project.



# Questions?

- **Mail comments to Olivia Daniszewski at the address below or email [meetingcomments@vdot.virginia.gov](mailto:meetingcomments@vdot.virginia.gov)**
- **Please include “I 395 Shirlington Interchange Improvements Study” in the subject line**
- **If you have any further questions, please contact:**

**Olivia Daniszewski,  
EIT**

**Preliminary  
Engineering**

**4975 Alliance Dr  
Fairfax, Va 22030**

**703-259-2318**