King Street Complete Streets Project

Community Meeting #3

April 21, 2016

Meeting Activities

- Housekeeping – Sign-In, Email List, Comments Forms
- Staff Presentation
- Questions and Comments
- Voting Exercise
- Next Steps

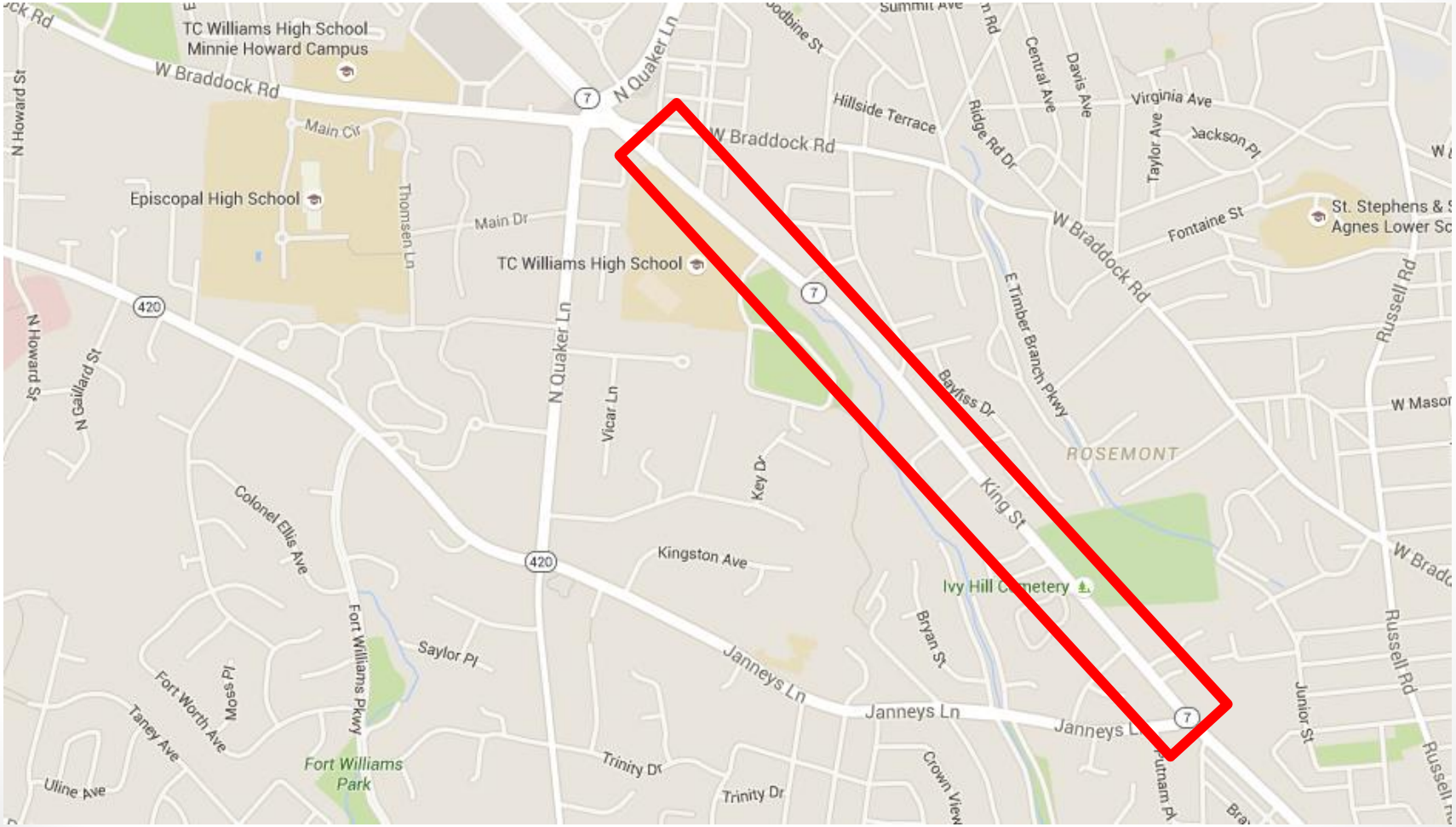
Project Overview

- King Street resurfacing this summer
- Complete Streets Policy
- Tonight: Gain feedback on recommended design option

Project Goals

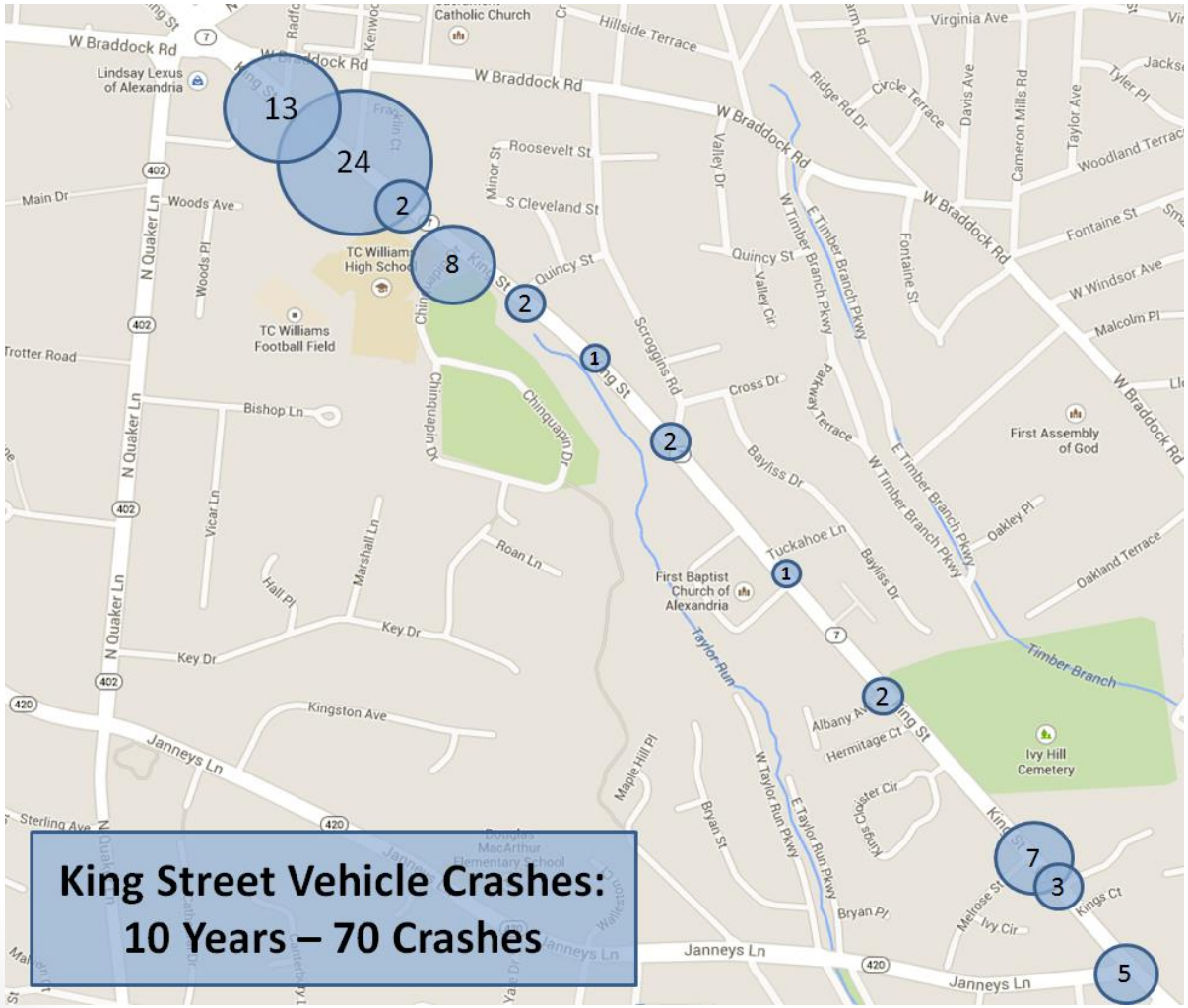
- Provide facilities for people who walk, bike, ride transit or drive cars
- Improve the safety and convenience for all street users
- Implement City Council adopted plans and policies

Project Limits: Radford St. to Janney's Ln.



King Street
Existing Conditions

Data Collection



*No bicycle or pedestrian crashes reported

- Average 85th percentile speeds:
  35mph=42
  25mph=33
- AM Peak ~750vph
- PM Peak ~650vph
- Traffic Study

Public Outreach Process

- November 17, 2015 – Public Meeting #1
  - Received feedback on issues/concerns
- January 15, 2016 – Meeting with TC Williams PTA
- February 11, 2016 – Public Meeting #2
  - Presented 3 options – feedback
- February 12th – 29th – AlexEngage Poll Open
- February 15, 2016 – Alexandria BPAC Meeting
- February 23, 2016 – Meeting with Melrose Area residents
- March 8, 2016 – Meeting with Kings Cloister Area Residents
- March 16, 2016 – Transportation Commission Update
- March 28, 2016 – Traffic and Parking Board Update
- April 11, 2016 – North Ridge & Taylor Run Citizens Associations

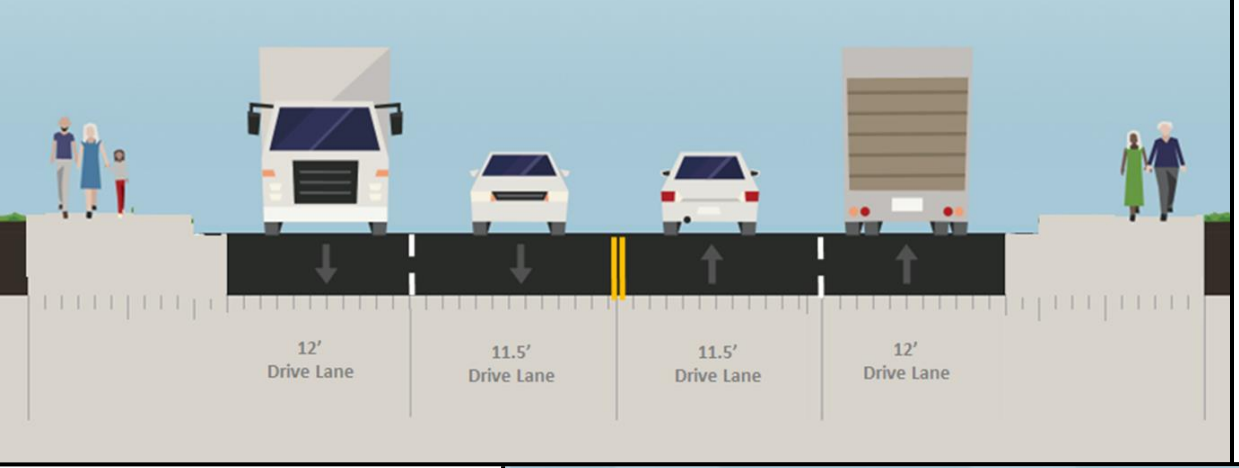
Summary - What we heard

What We Heard – main themes
Difficult to cross King Street
Pedestrian safety concerns near school
Vehicle speeds along King Street are high
Street crossings are long
Not enough time to cross at lights
Maintain travel times
Unsafe for people who bike
Difficult to access bus stops
Improvements needed at intersections
Need to change character of the roadway

King Street Community Comments

	Comments
1	Install protected bike lanes
2	Install green bike lanes at T-intersections
3	Add Bikeshare station between King Street Metro and TC Williams
4	Connect bike network to side streets
5	Lower speed limits to 25mph
6	Maintain speed limit on King (single speed)
7	Redesign the intersection at Scroggins Rd
8	Scroggins a problem for cyclists due to uphill/vehicle blind spot
9	Improve streetscape and provide shade for pedestrian at TC Williams where trees don't grow
10	Provide planting strip at Church and Lexus dealership
11	Add bike lanes
12	Utility poles inhibit pedestrians in front of Ivy Hill Cemetery
13	Need sidewalk buffer/planting strip in front of Ivy Hill Cemetery
14	Overall speed on King is too fast for cycling
15	Provide road diet with two travel lanes, left turn lanes and bike lanes (or buffered bike lanes)
16	Reduce speed to make Scroggins more accessible
17	Aggressive driving in right turn lane of Janney's from King
18	Install more crosswalks
19	Focus less on bikes and more on encouraging public transit
20	Need barriers to prevent cars from going into the bike lanes (turning right from Janneys onto King)
21	Left turn onto King from West View is very hard due to traffic volumes
22	Add bike lanes to narrow King and provide calming/lower speeds
23	Consider pedestrian island at Scroggins and King
24	Traffic and bicycle safety concerns on King from Janneys to TC Williams
25	Add protected bike lanes
26	Lights needed for pedestrian safety at scroggins
27	Consider road diet
28	Extend curbs at Scroggins to reduce vehicle speeds
29	Install pedestrian refuge islands
30	Address general landscape concerns
31	Install speed indicator signs
32	Preserve/expand green space
33	Focus on EB King Street (near TC Williams) where this is poor biking conditions due to low visibility and hills
34	Consider parent drop-off/pick-up access at TC Williams
35	Install all walk phase at Kenwood and King
36	Install curb extensions at Kenwood and King
37	Improve circulation on Chinquapin Dr
38	Install a speed triggered light
39	Provide left only and through & right lanes on Kenwood
40	Consider increase in traffic volume from Woodbine/Memory Care development
41	Install more traffic lights along King
42	Provide "All Walk" phase at Kenwood and King and at Kenwood and Braddock
43	Provide median on King St
44	Add more greenscape and buffer for sidewalks
45	Reduce speed to make it easier to access and exit driveway safely
46	Consider cut-through traffic on Scroggins if speeds are reduced on King
47	Consider impact on driveway access if there are bike lanes on King
48	Evaluate left turn signals near TC Williams
49	Installed Flashing SCHOOL SPEED sign on King Street
50	Control traffic volumes

*Over 250 comments regarding this project submitted

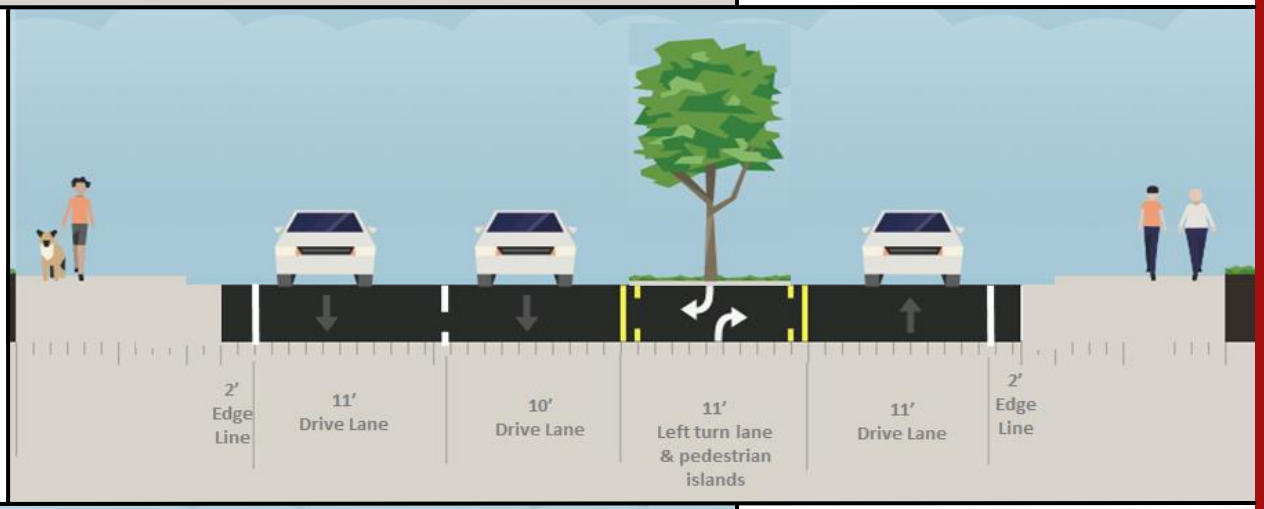


Option 1

Complete Street Maintenance

Option 2

Pedestrian & Accessibility Intersection Enhancements

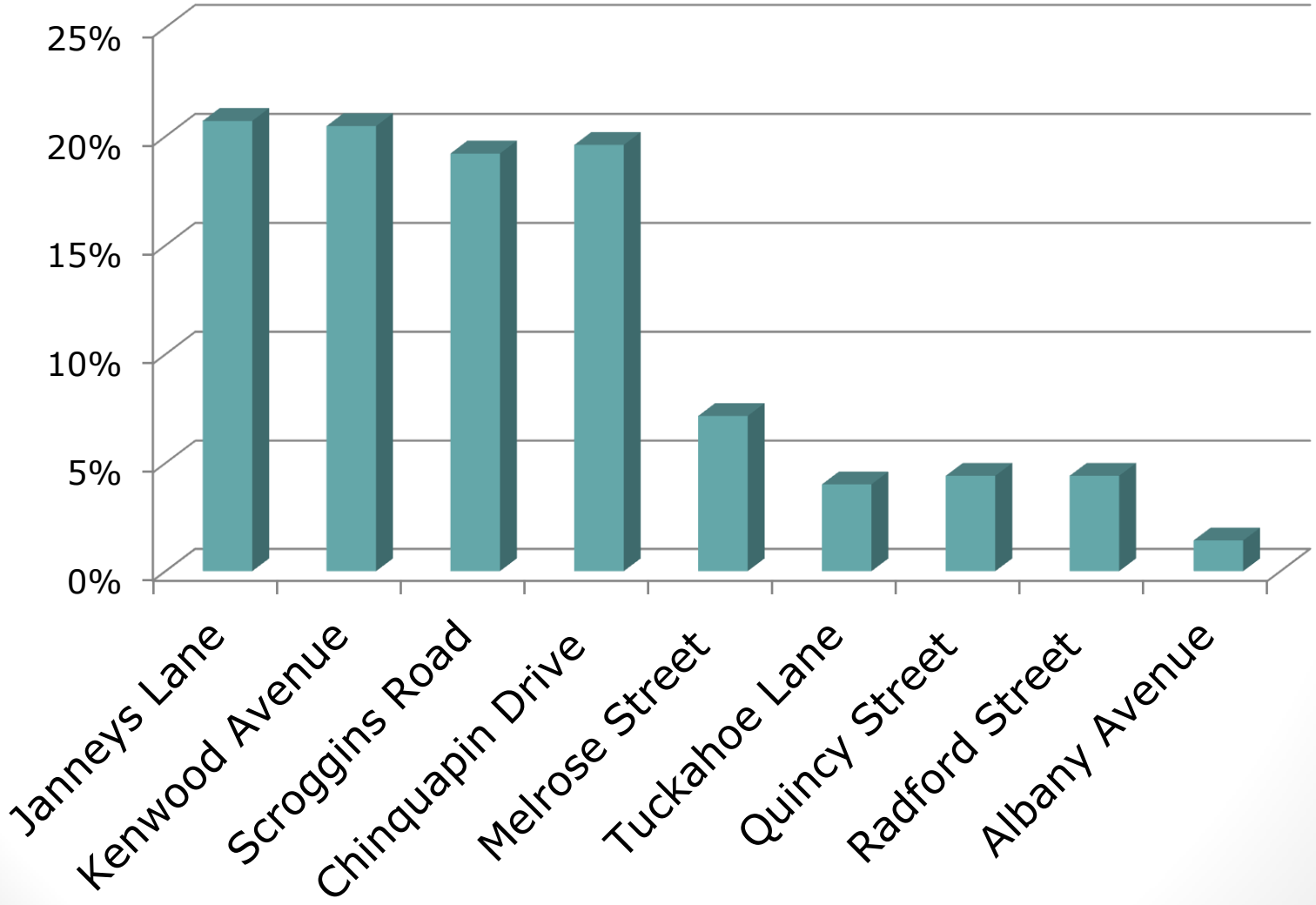


Option 3

Complete Street Corridor Improvements

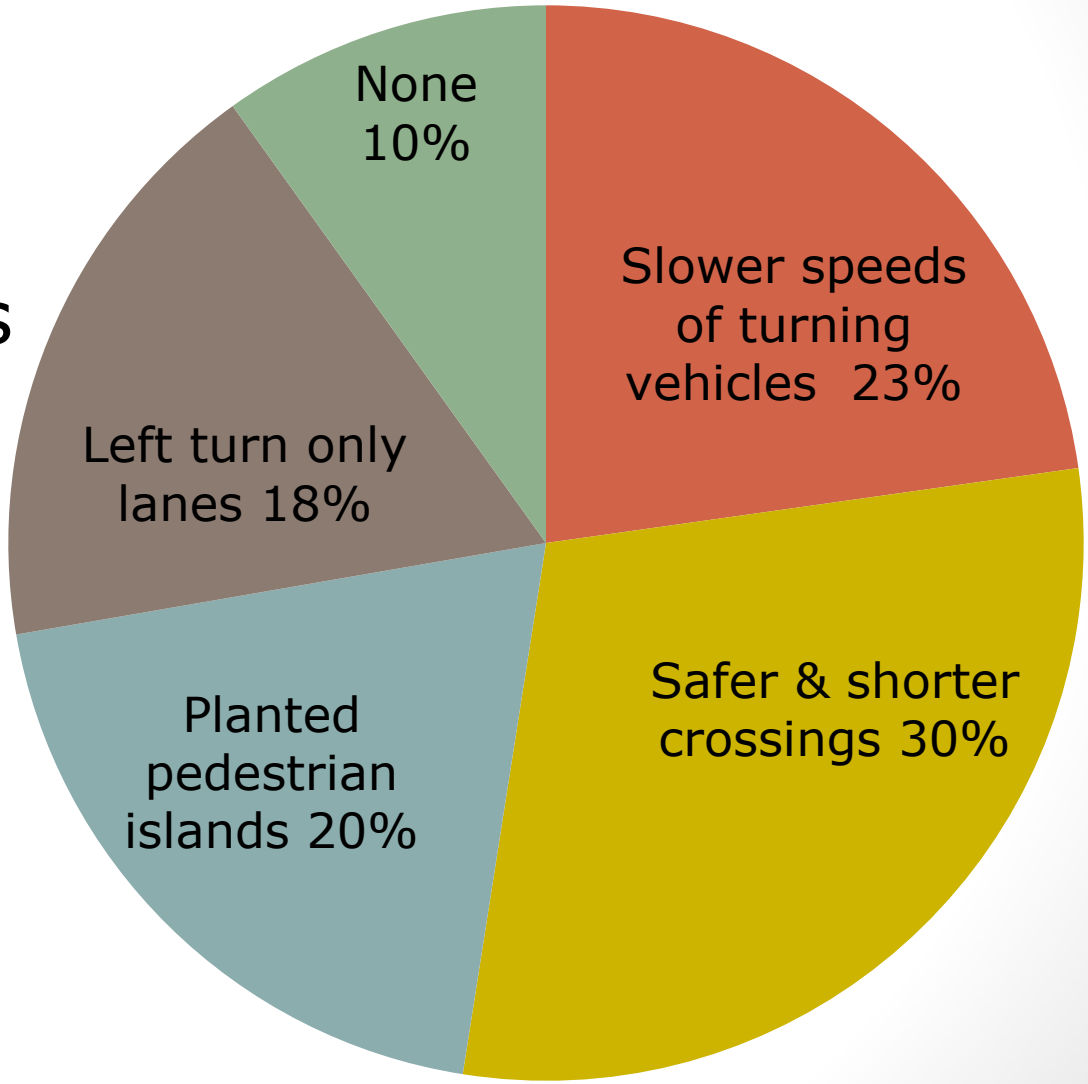
AlexEngage Results

- What intersections are in need of the most improvements?



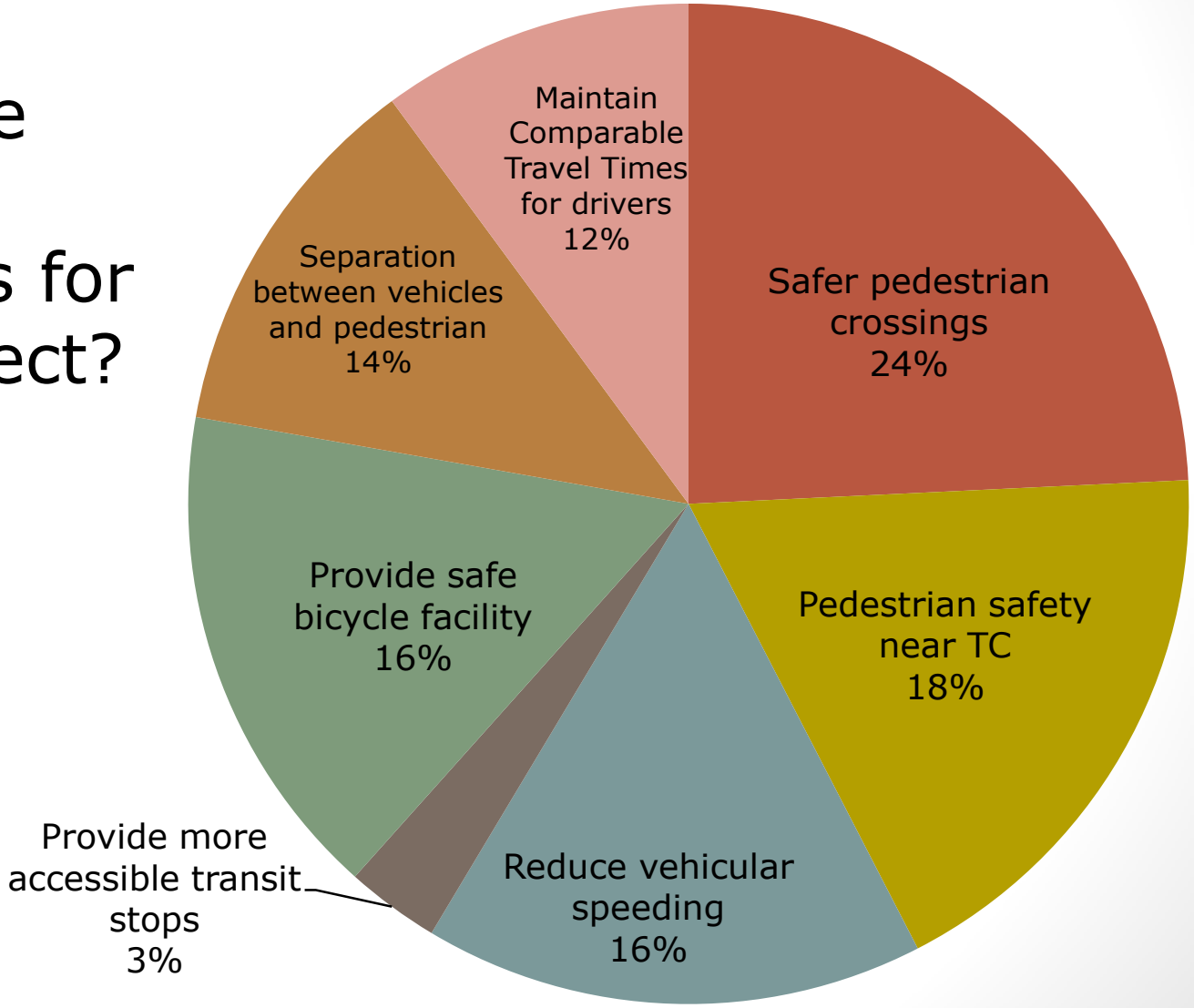
AlexEngage Results

- Which intersection safety improvements are most important to you?



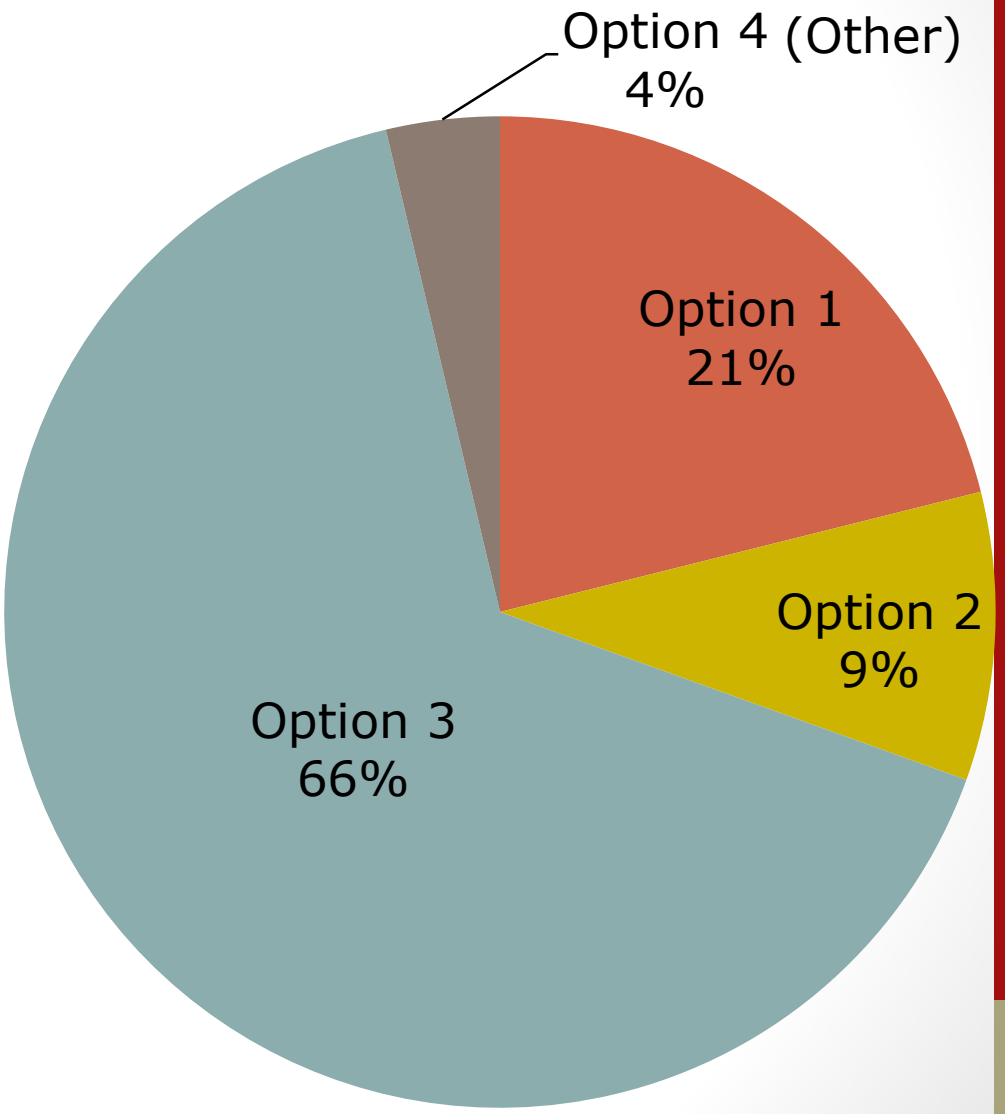
AlexEngage Results

- What are your top priorities for the project?



AlexEngage Results

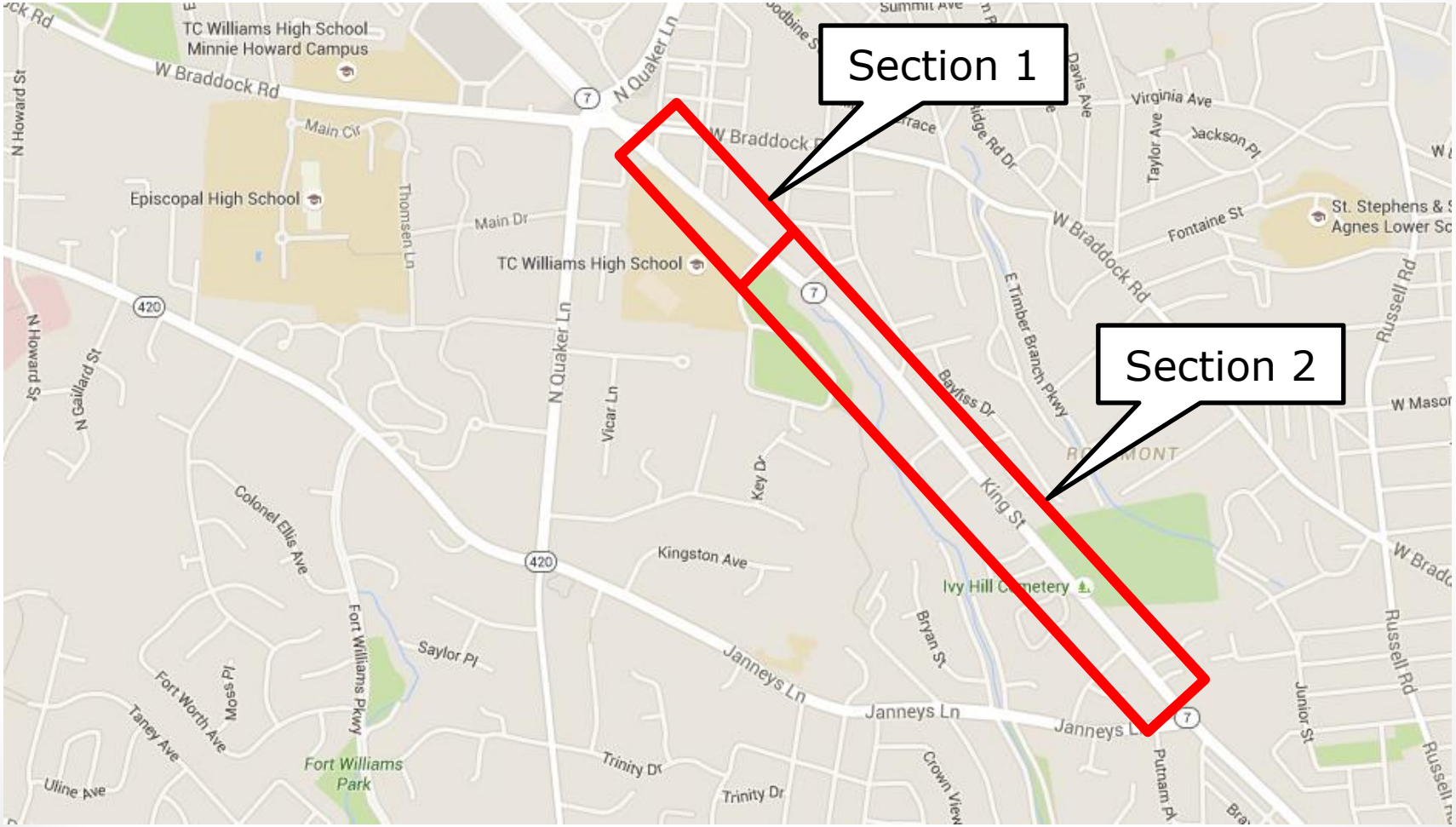
- 760 people responded to survey
- 200 people who live "in area" responded
- 215 additional comments



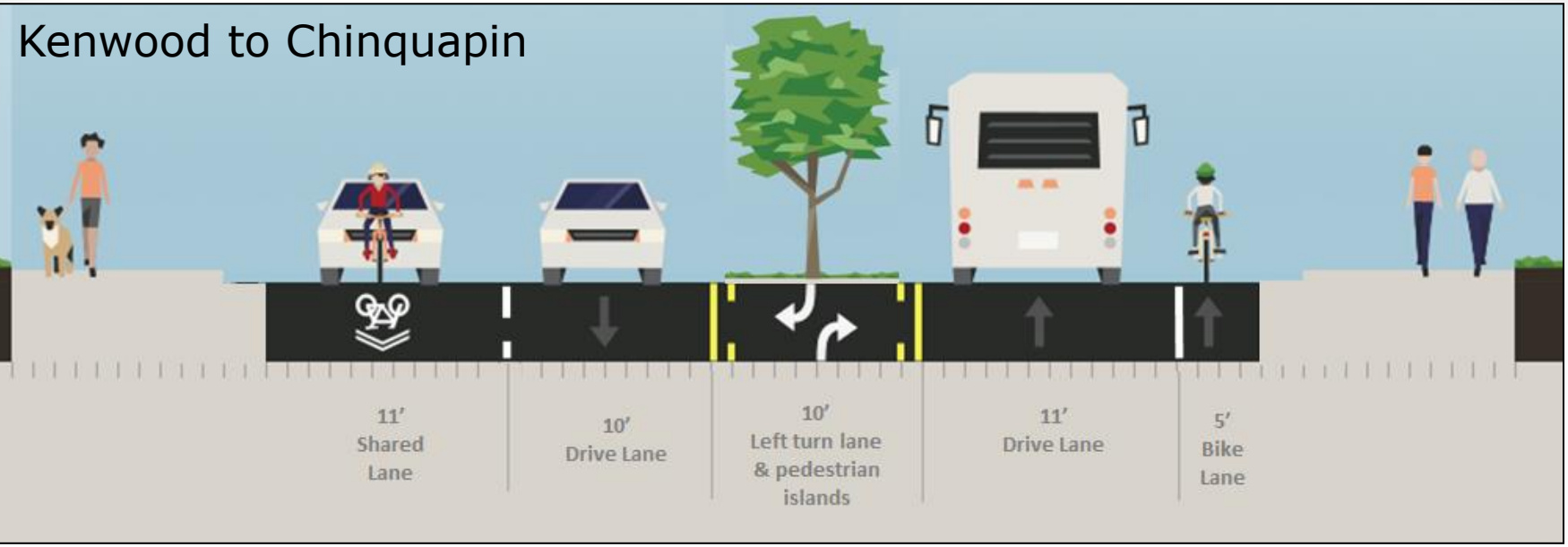
Staff Proposes Complete Street Design Option 3

- Staff proposes to move forward with the design elements presented in **Option 3 – Complete Street Design** because:
  - Meets all of the project goals
    - Space on the street for all roadway users
    - Provides the most safety benefits
    - Addresses City Council adopted plans
  - Community input largely supports this option
  - Design provides the most safety benefits for the community

Project Limits: Radford St. to Janney's Ln.

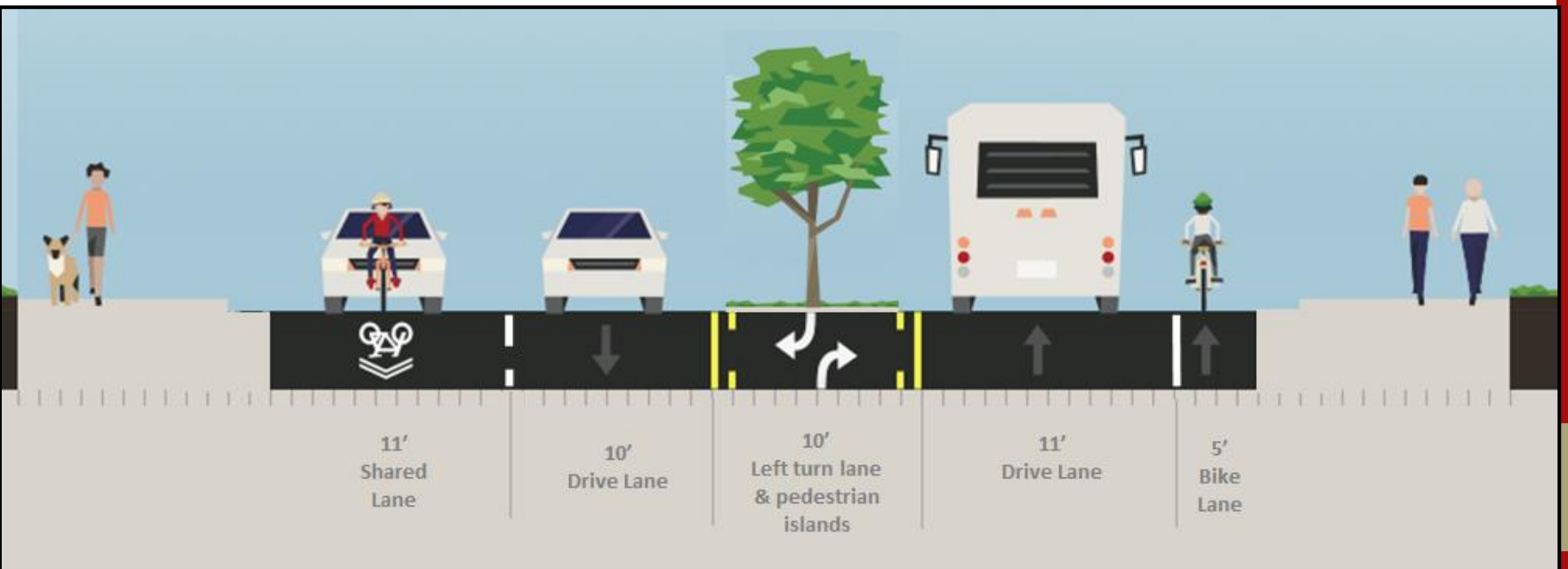


Complete Street Design: Complete Street Corridor

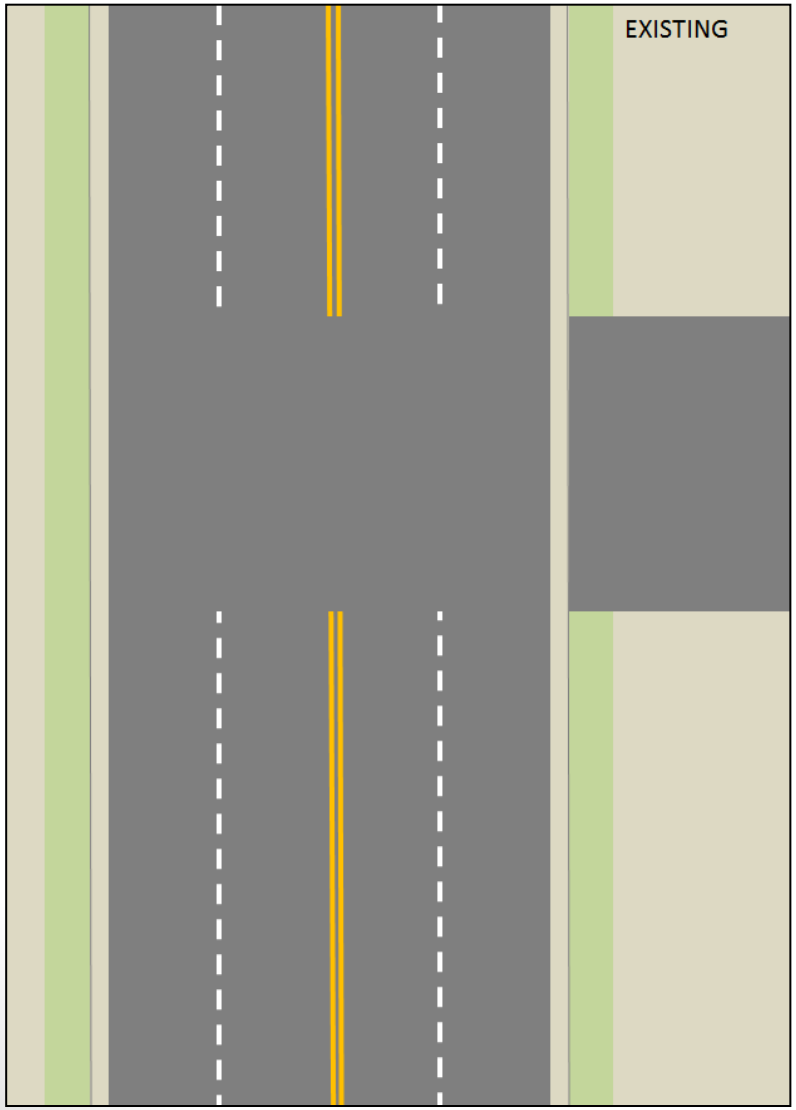


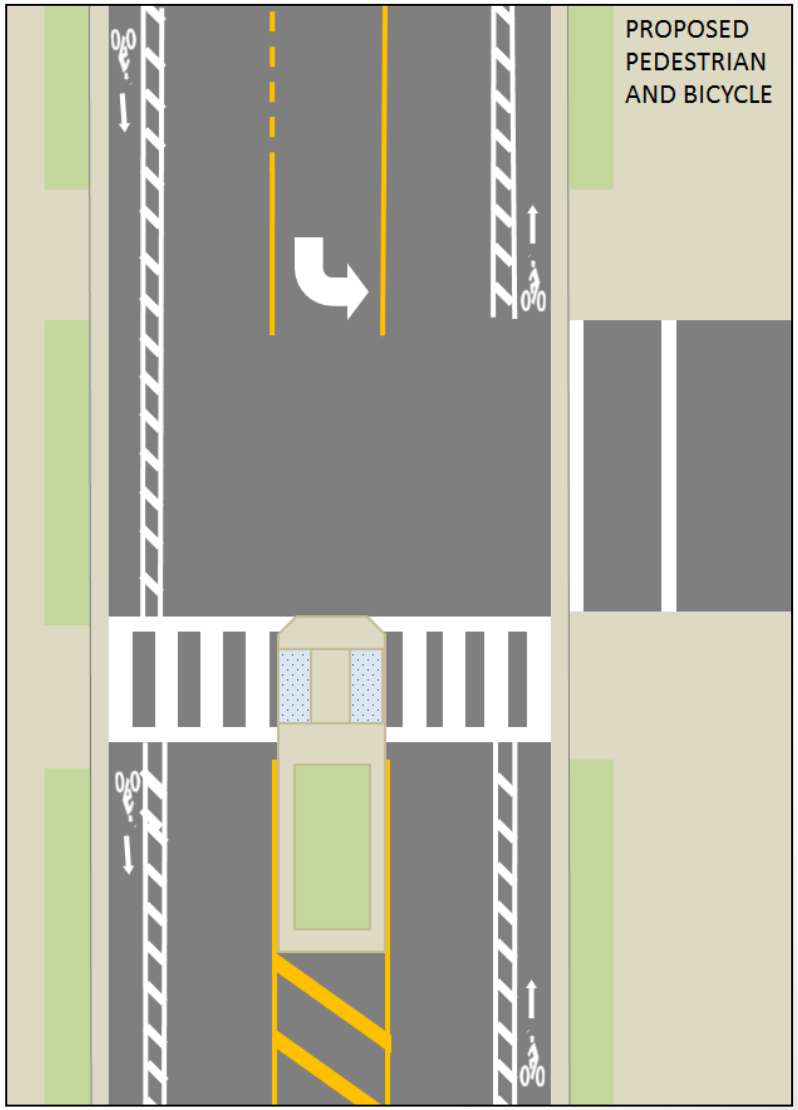
Complete Street Design: Considerations

- Eastbound travel time increases by 7s in the AM peak (3s in PM peak)
- Westbound travel time increases by 13s in AM peak (11s in PM peak)
- Provides separation between vehicles and sidewalk
- Provides designated space on street for all users for most of corridor
- Changes character of the corridor
- Provides major pedestrian improvements at Kenwood Avenue for increased safety at school



Typical Intersection – Option 3
Albany, Tuckahoe & Quincy



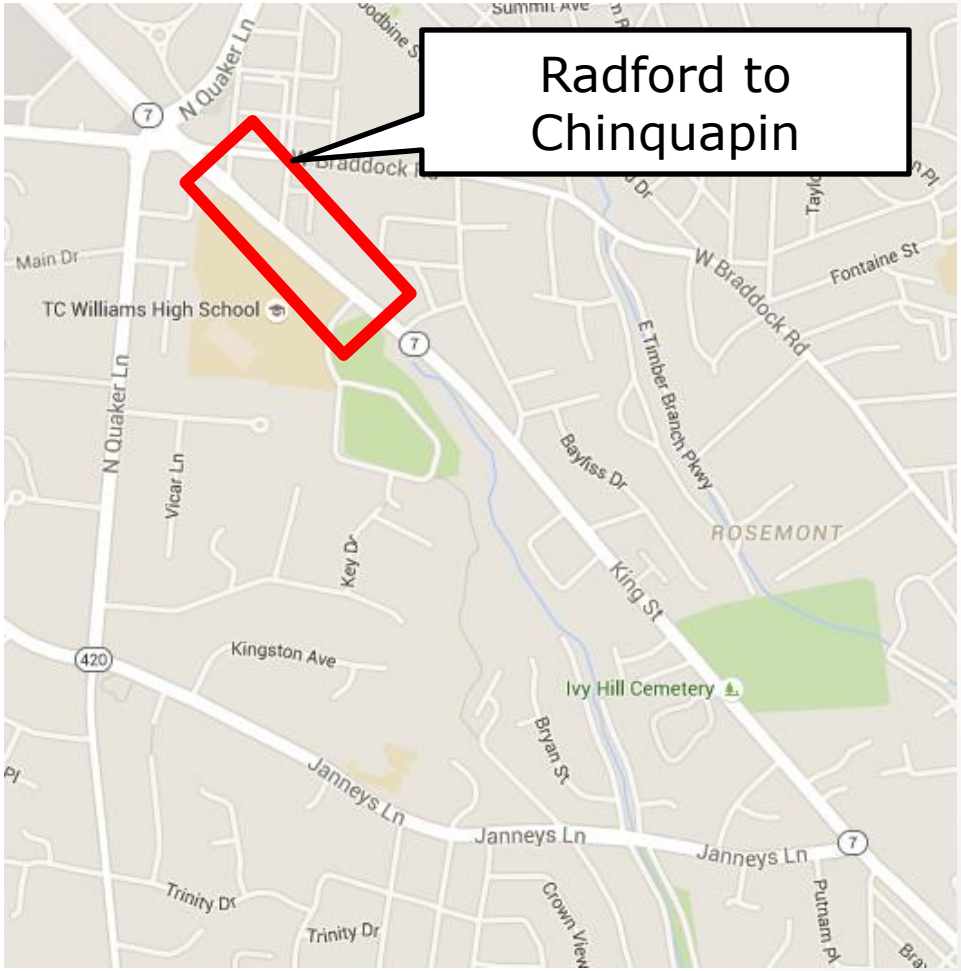


Complete Street Design Corridor Concept

What could it look like?

Detailed Street Section – Radford to Chinquapin

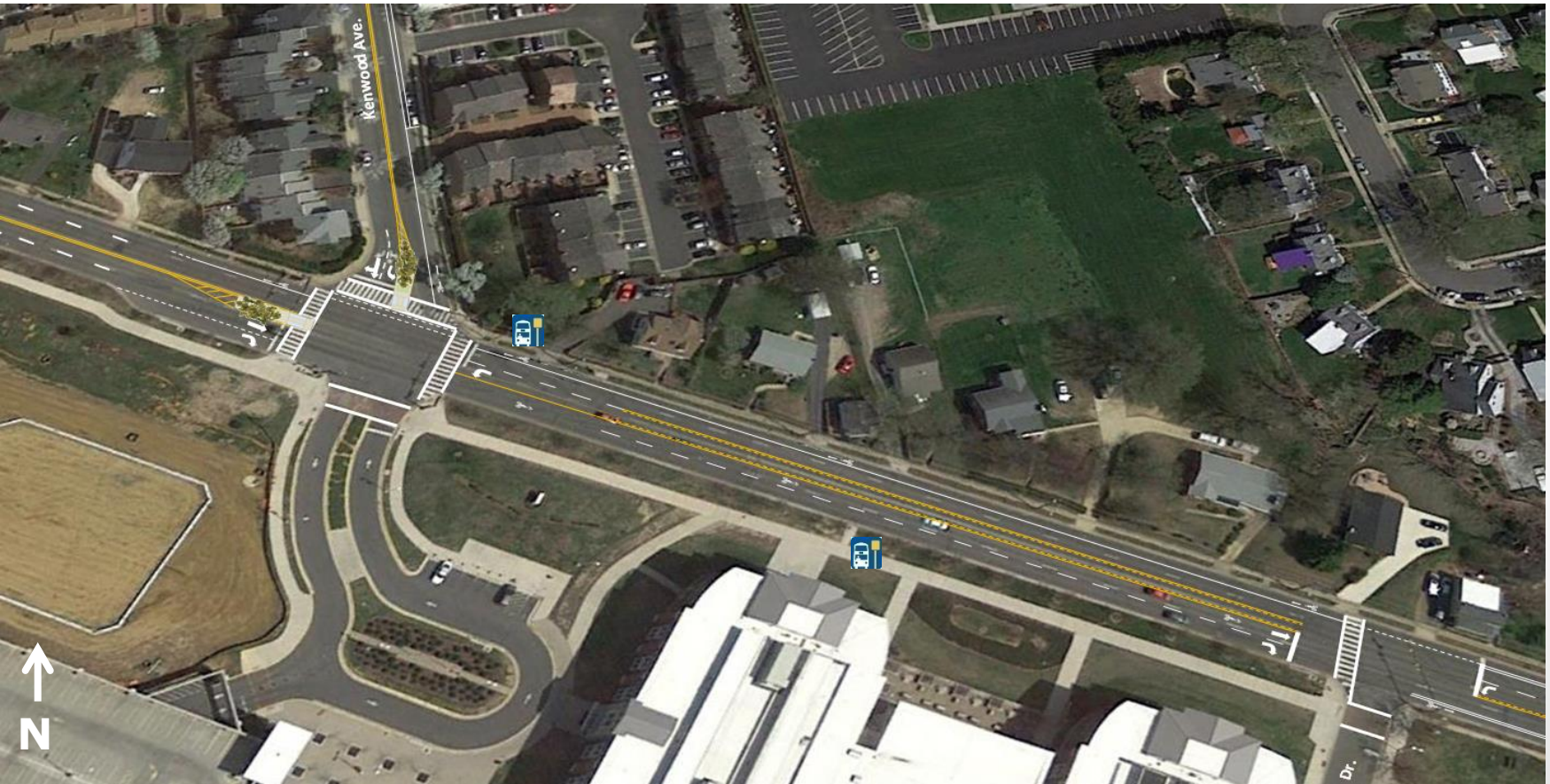
- 2 Eastbound Lanes
- 1 Westbound Lane with bike lane
- Westbound left turn lanes into TC at Kenwood and Chinquapin



Two pedestrian refuge islands at Kenwood

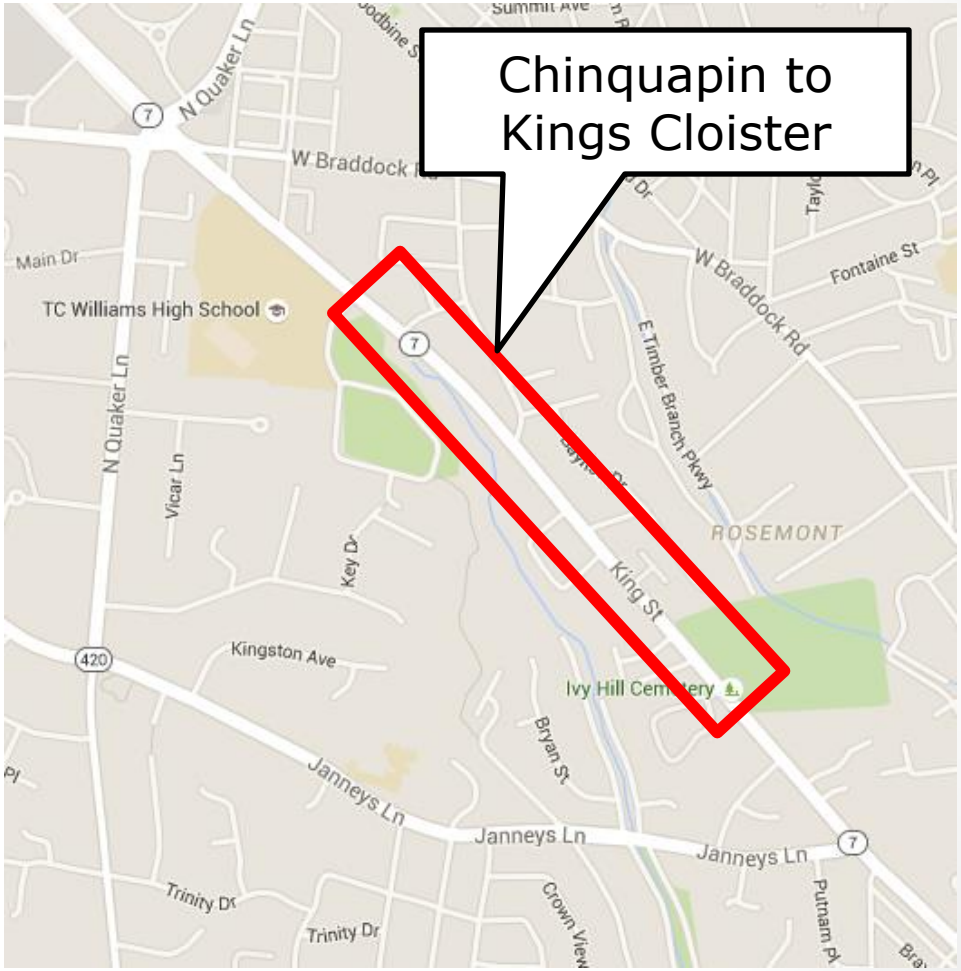
- New lane designation at Kenwood and Chinquapin
- Ban left EXCEPT buses onto Kenwood
- Improved signal timing

- Maintain two eastbound travel lanes with right turn lanes into TC and Chinquapin
- Provide one westbound turn lane with left lanes into TC and Chinquapin
- Provide Westbound bike lane to Kenwood



Detailed Street Section – Chinquapin to Kings Cloister

- One lane eastbound and westbound with center/left turn lane
- Buffered bike lanes
- Planted pedestrian islands and crosswalks at intersection with bus stops



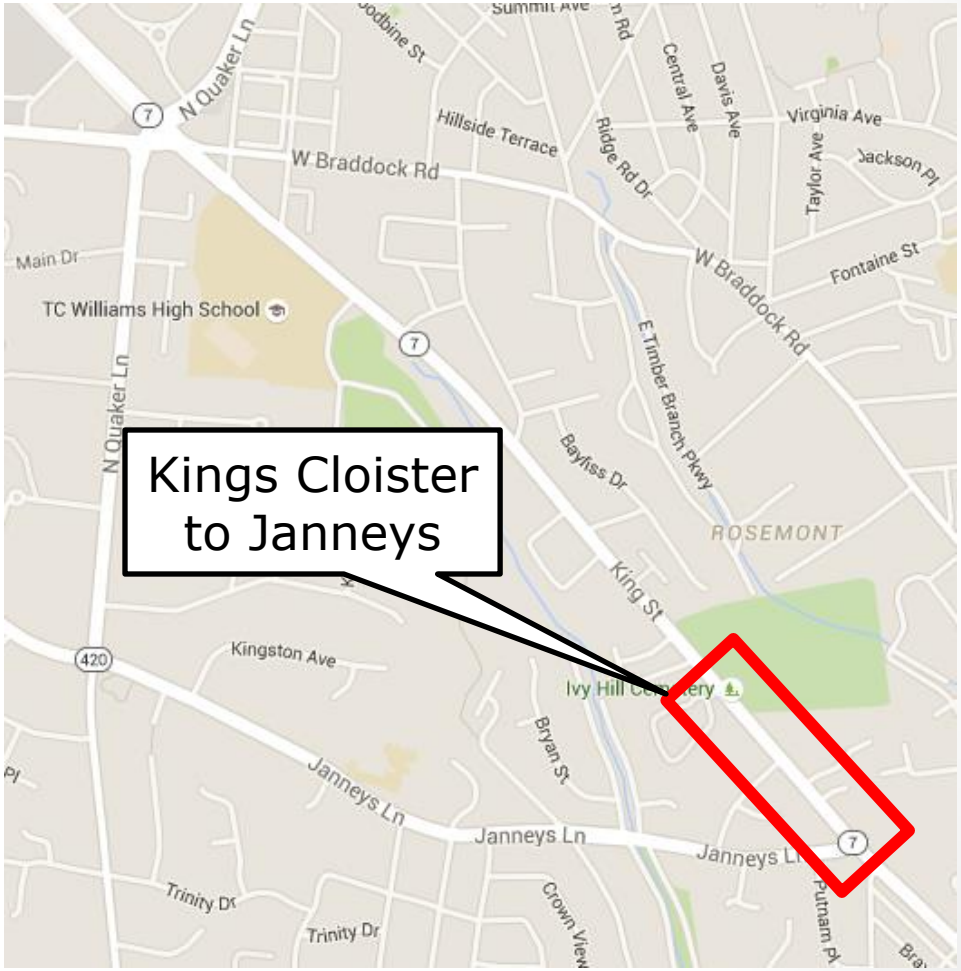
Scroggins Road – Concept 1

Scroggins Road – Concept 2

- One travel lane in each direction with center/left turn lane
- Planted pedestrian islands with crosswalks at Quincy, Tuckahoe & Albany
- Buffered bike lanes

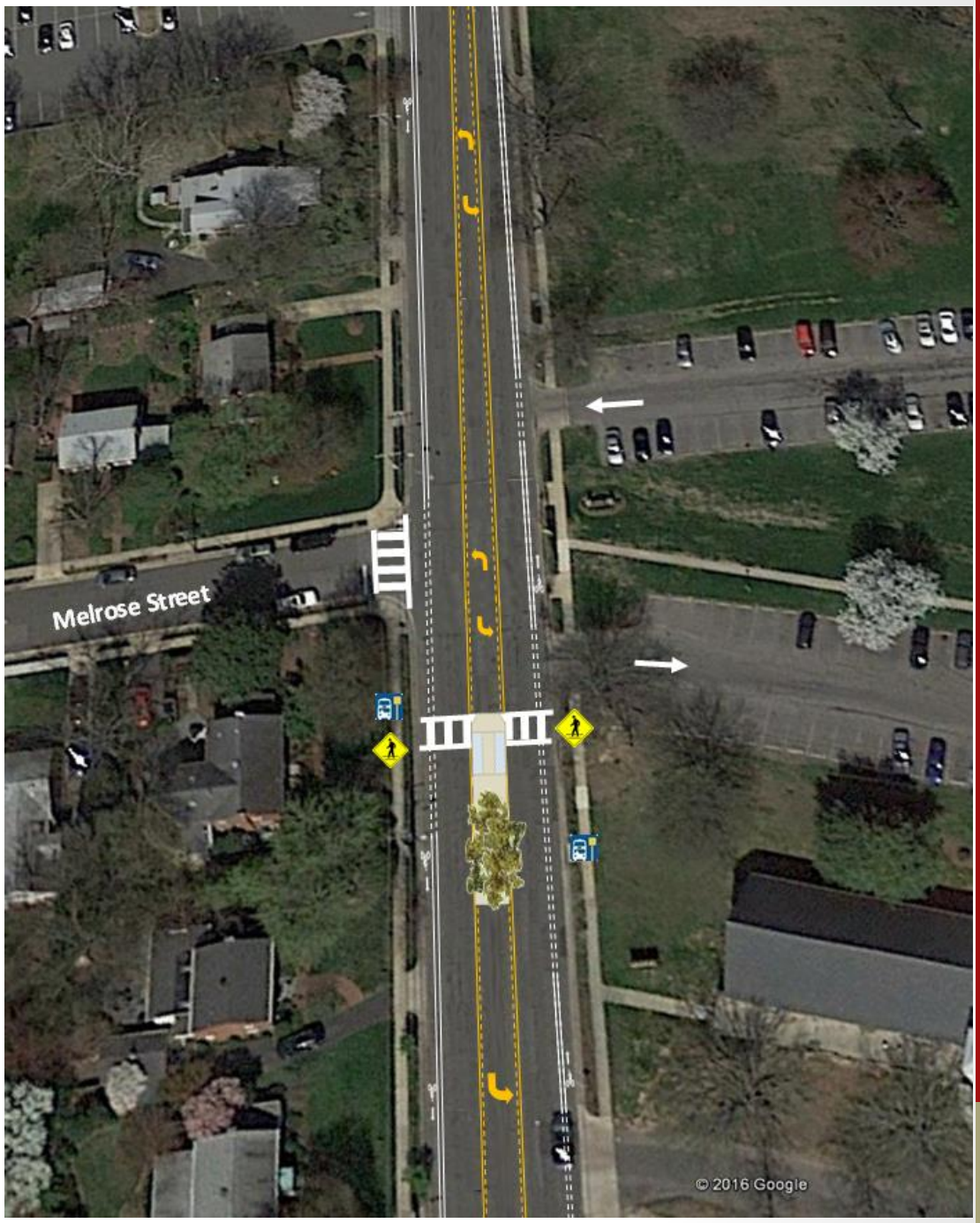
Detailed Street Section – Melrose to Janneys

- One lane eastbound and westbound with center/left turn lane
- Buffered bike lanes
- Planted pedestrian islands and crosswalks at intersection with bus stops



Melrose Street

- Replace two existing crosswalks with one
- Provide planted pedestrian refuge island and rapid flashing beacon
- Relocate EB bus stop
- Provide left turn lanes to get in and out of driveways and side streets



Janneys Lane

- Maintain right turn lane
- Remove bike lane buffer

Safety Benefits of Complete Street Design

- **Pedestrians**
  - Shorter, safer distances to cross the street
  - Lower vehicular speeds
  - Greater buffer from moving vehicles
  - Accessible crossings and bus stops
- **Bicyclists**
  - Dedicated space to ride on the street
  - Lower vehicular speeds
  - Reduced conflicts with pedestrians and vehicles
  - Provides missing link in citywide bike network
- **Drivers**
  - Lower vehicular speeds
  - Center turn lane reduces rear-end crashes
  - Center turn lane eliminates the need to change lanes and reduces sideswipe crashes
  - Increases sight distance and reduces left-turn turn crashes
  - Easier to exit side streets and driveways

Safety Benefits of Complete Street Design

- **Operational**
  - Separates left-turning traffic and reduces delays
  - Provides opportunity for vehicular traffic to pass buses at stops
- **Other**
  - Pedestrian refuge islands provide opportunity for streetscape
  - Creates a more residential character to the street
  - Lower vehicle speeds encourage more pedestrian and bicycle activity and safer driver behavior
  - Minimal travel time delays to drivers

Community Concerns Regarding Complete Street Design

- Reduce speed limits from 35 mph to 25 mph
  - Optional addition to plan
- Turns in and out of driveways and side streets
  - Center turn lane and slower speeds
- Traffic back up at Janneys Lane
  - Right turn lane
- Congestion along corridor and traffic diversion to other neighborhoods
  - Traffic study and consistency with Federal Highway Administration study
- Turns from Scroggins Road
  - Two design options
- Need for traffic signal at Scroggins Road
  - Signal not warranted but baseline data was collected
  - Future traffic calming project with resurfacing
- Safety and access at T.C. Williams
  - Redesign of Kenwood intersection, turn bans, new turn lanes into TC Williams

Questions about the Project

Voting Exercise

Scroggins Road Intersection

- ☐ Shorten crossing distance (Option1)
- ☐ Maintain left and right turn lanes onto King Street (Option 2)
- ☐ No opinion

Scroggins Road – Concept 1

Scroggins Road – Concept 2

Voting Exercise

Kenwood Avenue Intersection

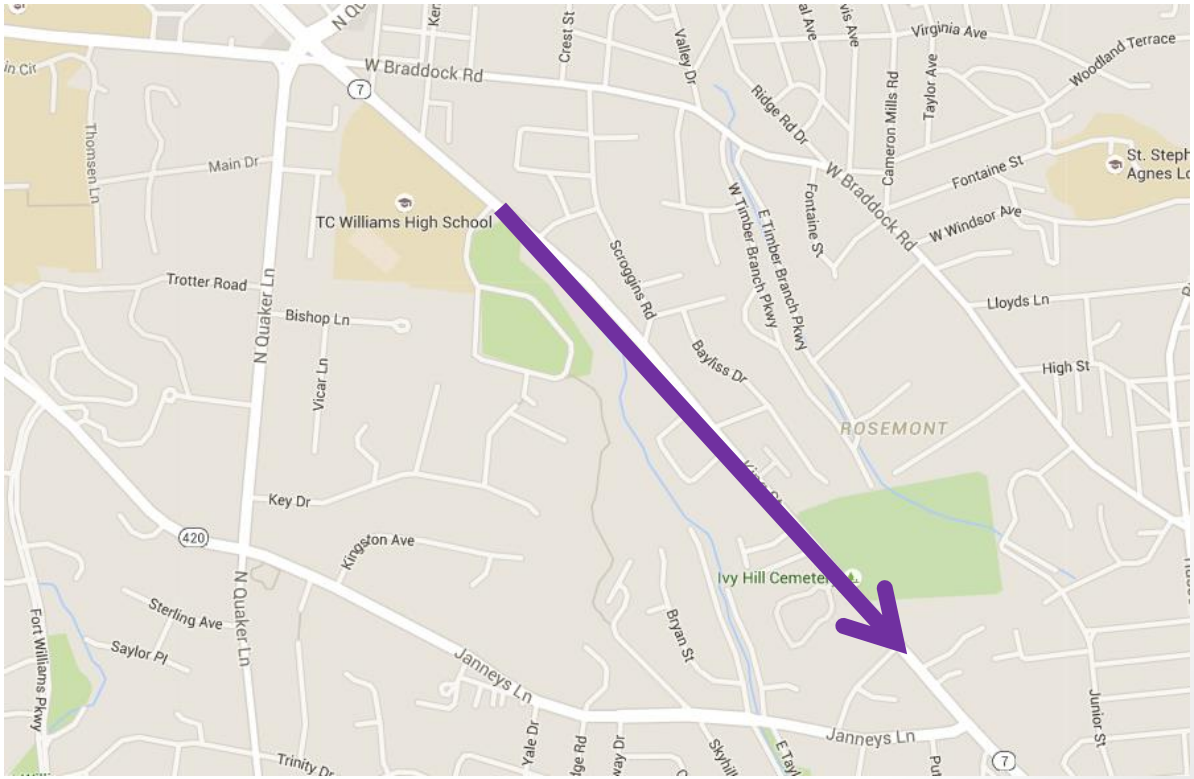
- ☐ Ban lefts onto Kenwood except buses at all time
- ☐ Ban lefts onto Kenwood except buses during the peak times
- ☐ Ban lefts onto Kenwood except buses never
- ☐ No opinion

*12 turns in both AM and PM peak

Voting Exercise

Speed Limits

- ☐ Maintain 35mph speed limit
- ☐ Propose 25mph speed limit with project
- ☐ Change to 25mph if post–implementation evaluation shows that street is appropriate for 25mph speed limit
- ☐ No opinion



.8 miles at:
35mph= 1m 21s
25mph= 1m 54s

Voting Exercise Results

Scroggins Road Intersection	
Shorten crossing distance (Option1)	16
Maintain left and right turn lanes onto King Street (Option 2)	32
No opinion	5
Kenwood Avenue Intersection	
Ban lefts onto Kenwood except buses at all time	6
Ban lefts onto Kenwood except buses during the peak times	16
Ban lefts onto Kenwood except buses never	17
No opinion	13
Speed Limits	
Maintain 35mph speed limit	17
Propose 25mph speed limit with project	25
Change to 25mph if post–implementation evaluation shows that street is appropriate for 25mph speed limit	8
No opinion	2

Next Steps

- Additional community input welcomed
  - https://www.alexandriava.gov/86423
- Staff to refine recommended design option
- Traffic and Parking Board – Public Hearing – Monday, May 23
  - https://www.alexandriava.gov/TrafficParkingBoard
  - City Hall Council Chambers, 7:30 pm
- Implementation – Summer 2016

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