



CITY OF ALEXANDRIA
Department of Transportation
& Environmental Services

Duke Street Transitway





CITY OF ALEXANDRIA
**Department of Transportation &
Environmental Services**

- **In June 2023, City Council requested staff to continue working with community on service road design.**
- **Staff recommends that the City Council approve:**
 - Conversion of Duke Street Access Road from *two-way* to *one-way* westbound between West Taylor Run Parkway & Cambridge Road, and
 - The updated concept plans for Phase I of the Duke Street Transitway.



Timeline

2008

Duke Street Identified as future transit corridor

2012

Transitway Concept Plans Approved

2018 & 2020

- \$12M Planning funding awarded
- \$75M funding awarded to build

2021

Phase I - Community Visioning

2022

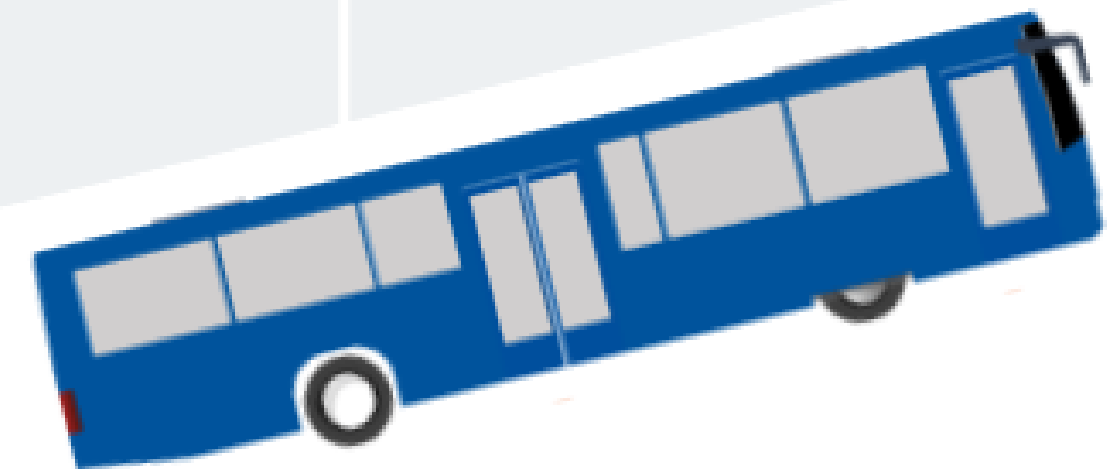
Phase II - Concept Planning - Community Priorities & Tradeoffs

2023

- Phase III -
- Concept Refinement & Curb Features
 - Council Action

2024

Phase IV - Service Road Community Discussions



Phase I Community Outreach Visioning



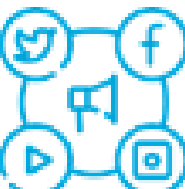
1,785 feedback form responses



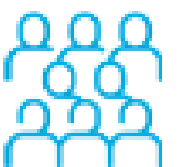
3,587 project handouts



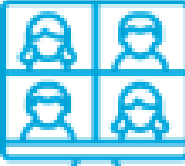
6,393 received eNews blast



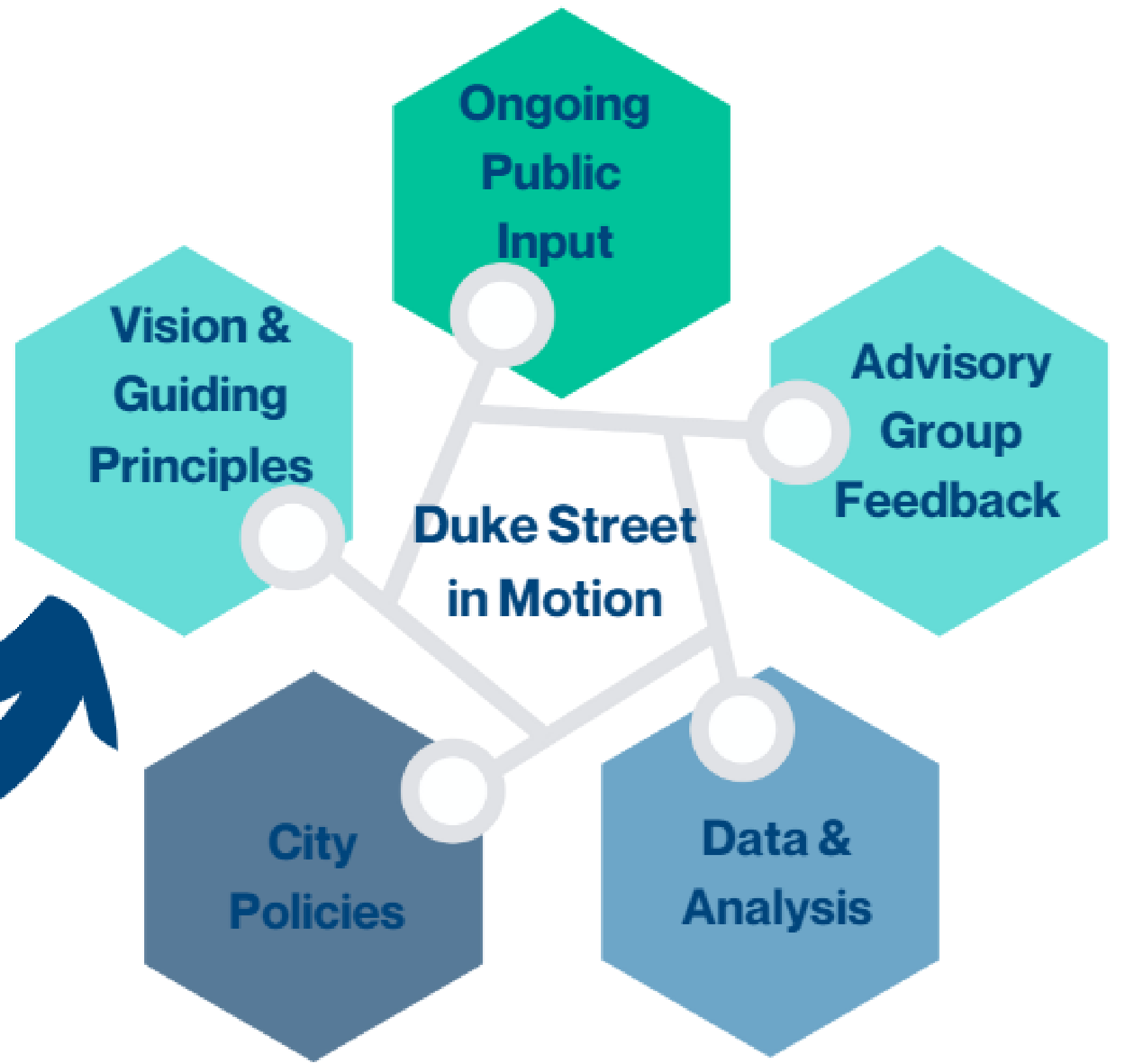
95,889 on social media



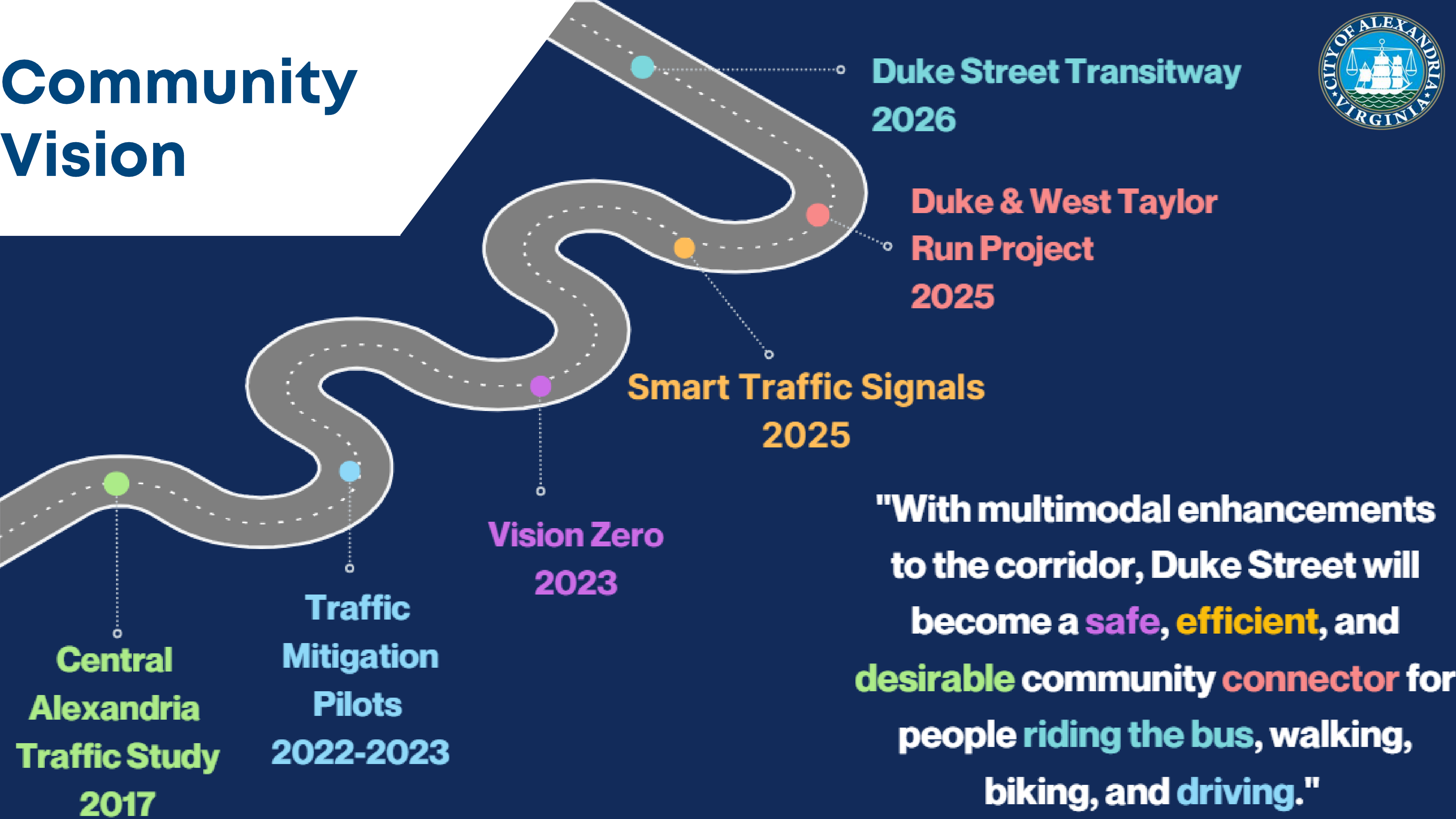
2,552 reached at **22** pop-ups



92 webinar attendees



Community Vision



**Duke Street Transitway
2026**

**Duke & West Taylor
Run Project
2025**

**Smart Traffic Signals
2025**

**Vision Zero
2023**

**Traffic
Mitigation
Pilots
2022-2023**

**Central
Alexandria
Traffic Study
2017**

"With multimodal enhancements to the corridor, Duke Street will become a **safe, **efficient**, and **desirable** community **connector** for people **riding the bus**, walking, biking, and **driving**."**



Community Outreach



Written Feedback

Feedback form + emails

- **3,445** feedback form responses
- **165** email comments



Duke Street Meetings

Open houses and public forums with Q/A components

- **12** hosted live meetings
 - **270+** attendees
- **3** webinars
 - **850+** views



Meetings Attended

Presentations and Q/A as part of other meetings

- **16+** community groups
- **7+** boards and commissions



Pop-up Events

Shared multilingual information throughout the corridor

- **37** events
- **3,950+** interactions
- **638** polls completed



Mailings

Postcards with project information and links

- **17,623** direct mailings



Businesses Contacted

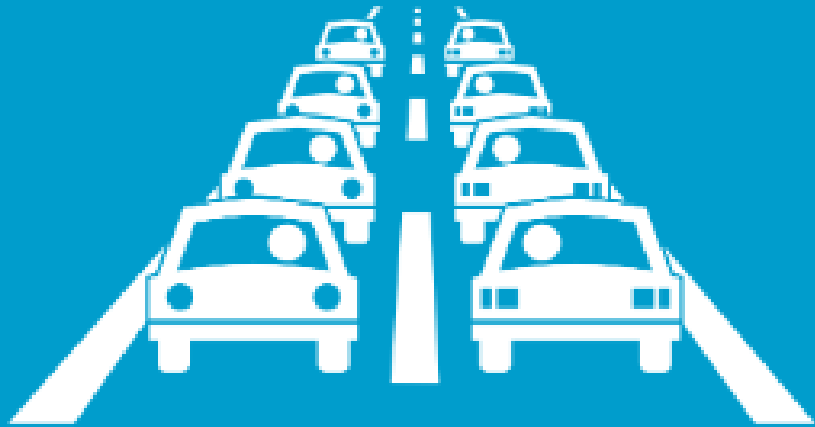
Drop ins, follow up calls, and emails

- **115+**



Community Feedback

Keep Duke Street Moving



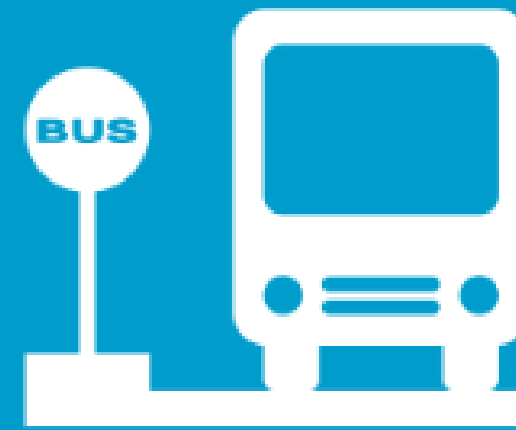
88% - Traffic congestion as major issue

Provide safe streets



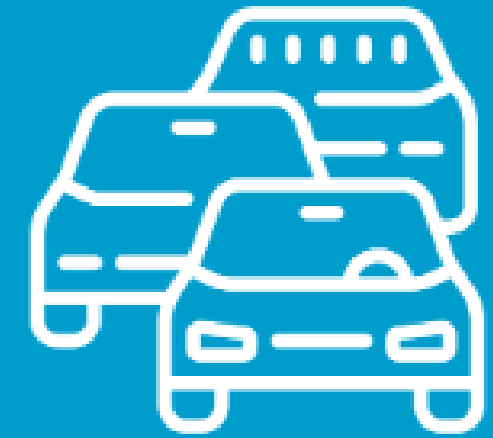
82% - Importance of improved intersection safety

Bus Stops & Amenities



68% of bus riders want safer access & 78% want better amenities

Residential Roads



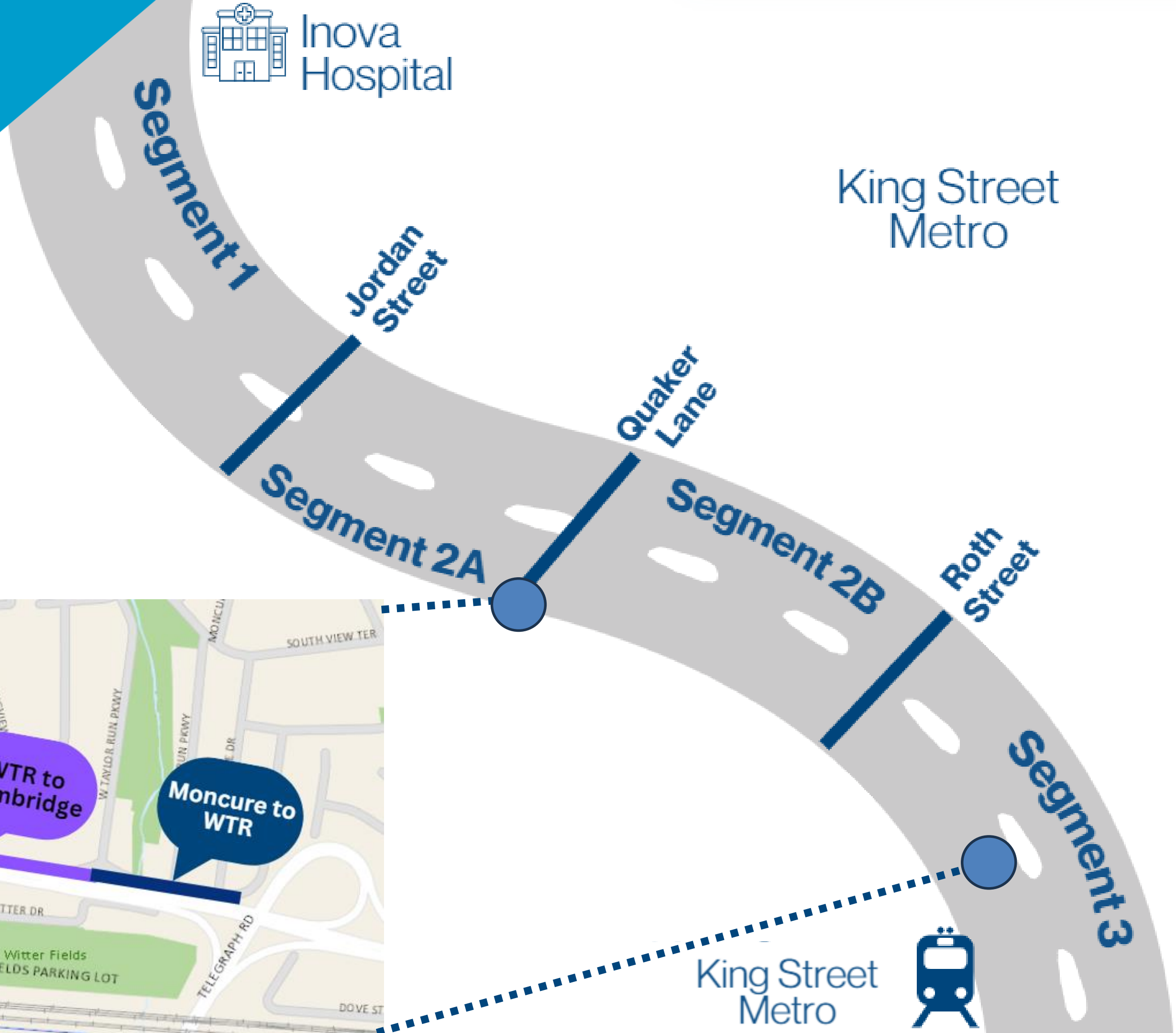
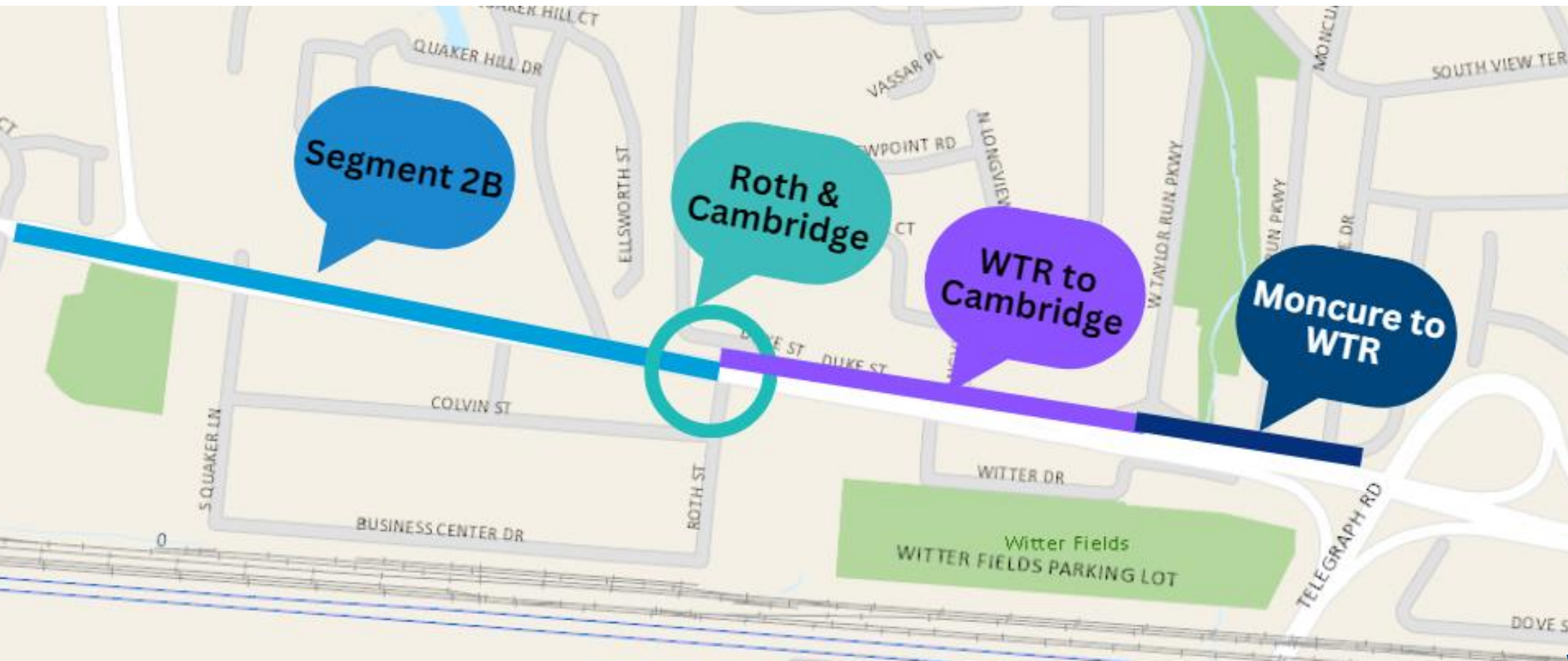
Reduce cut-through traffic on neighborhood streets

Location

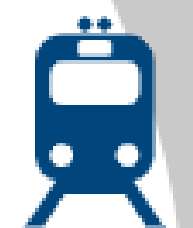


King Street
Metro

Segment 3



King Street
Metro





**Developed 8
design options
for services
roads for input**

Community Engagement



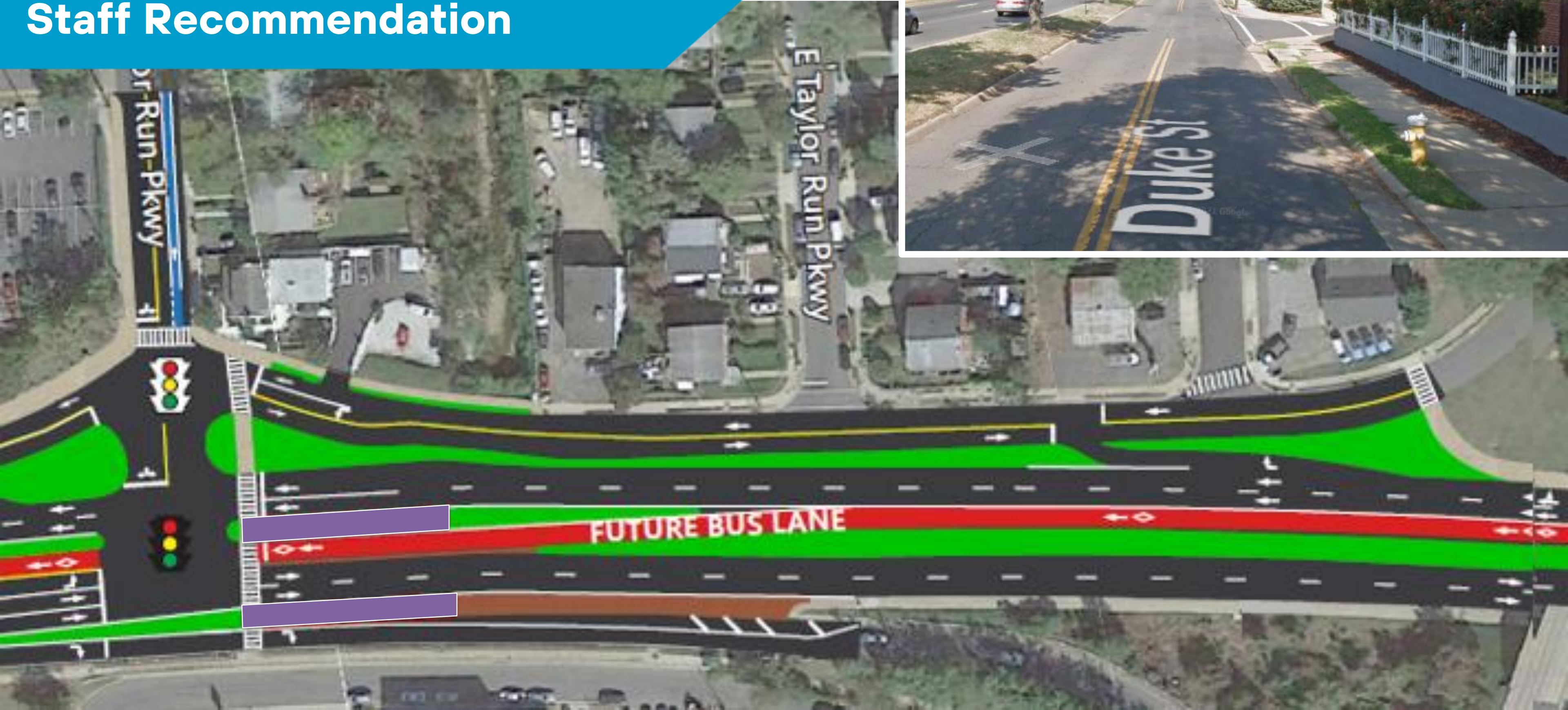
September 2023 - Present

- **3 Civic Association/HOA Meetings**
- **1 in-person Community Meeting with 75 attendees**
- **400+ responses to online feedback form**
- **4 Meetings with Community Leaders**
- **4 Community Newsletters**
- **6 Board & Commission Staff Updates**
- **2 City Council Oral Updates**
- **Numerous phone & email conversations with residents**

Outreach

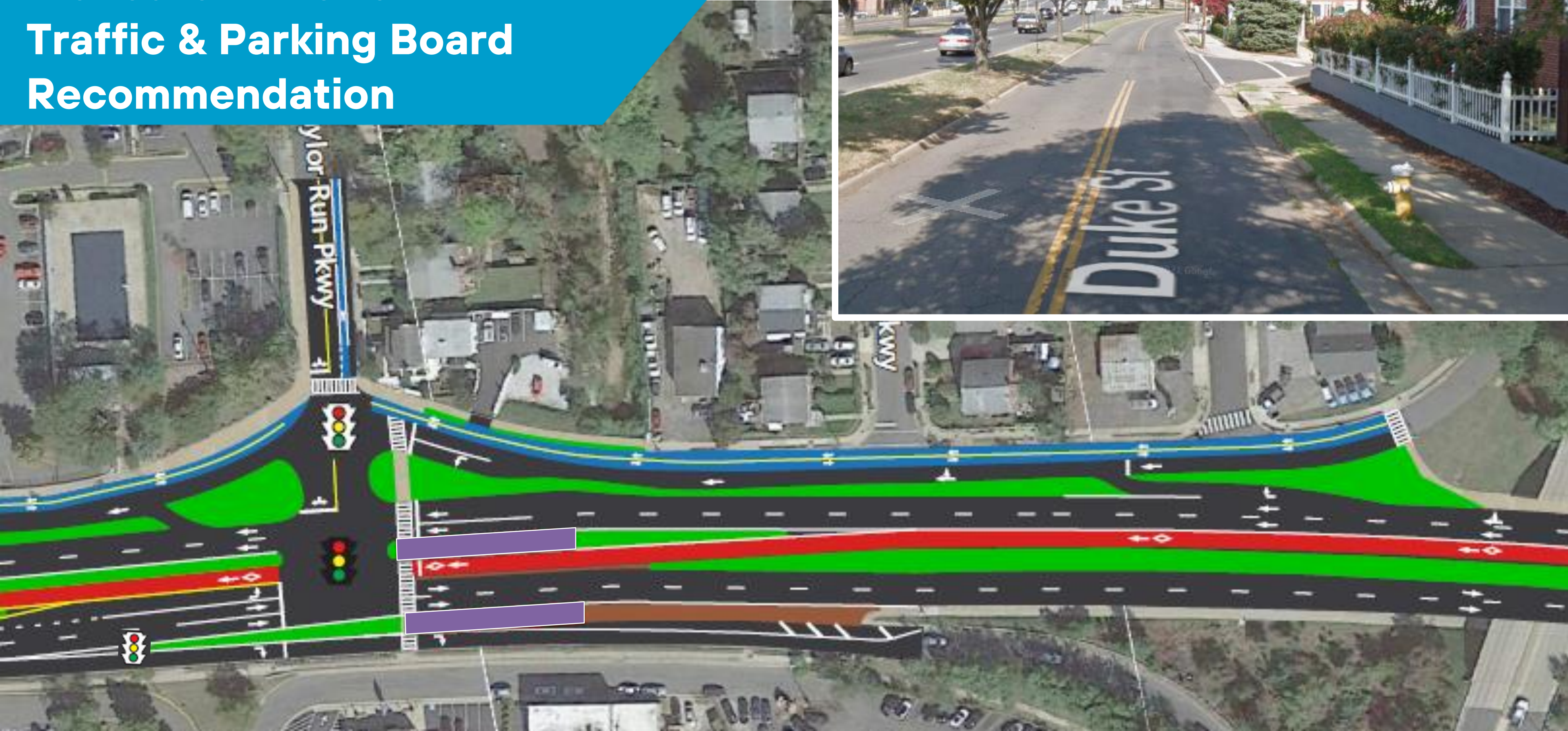
Location 1

Moncure Drive to WTRP:
Staff Recommendation



Location 1

Moncure Drive to WTRP:
Traffic & Parking Board
Recommendation



Community Input

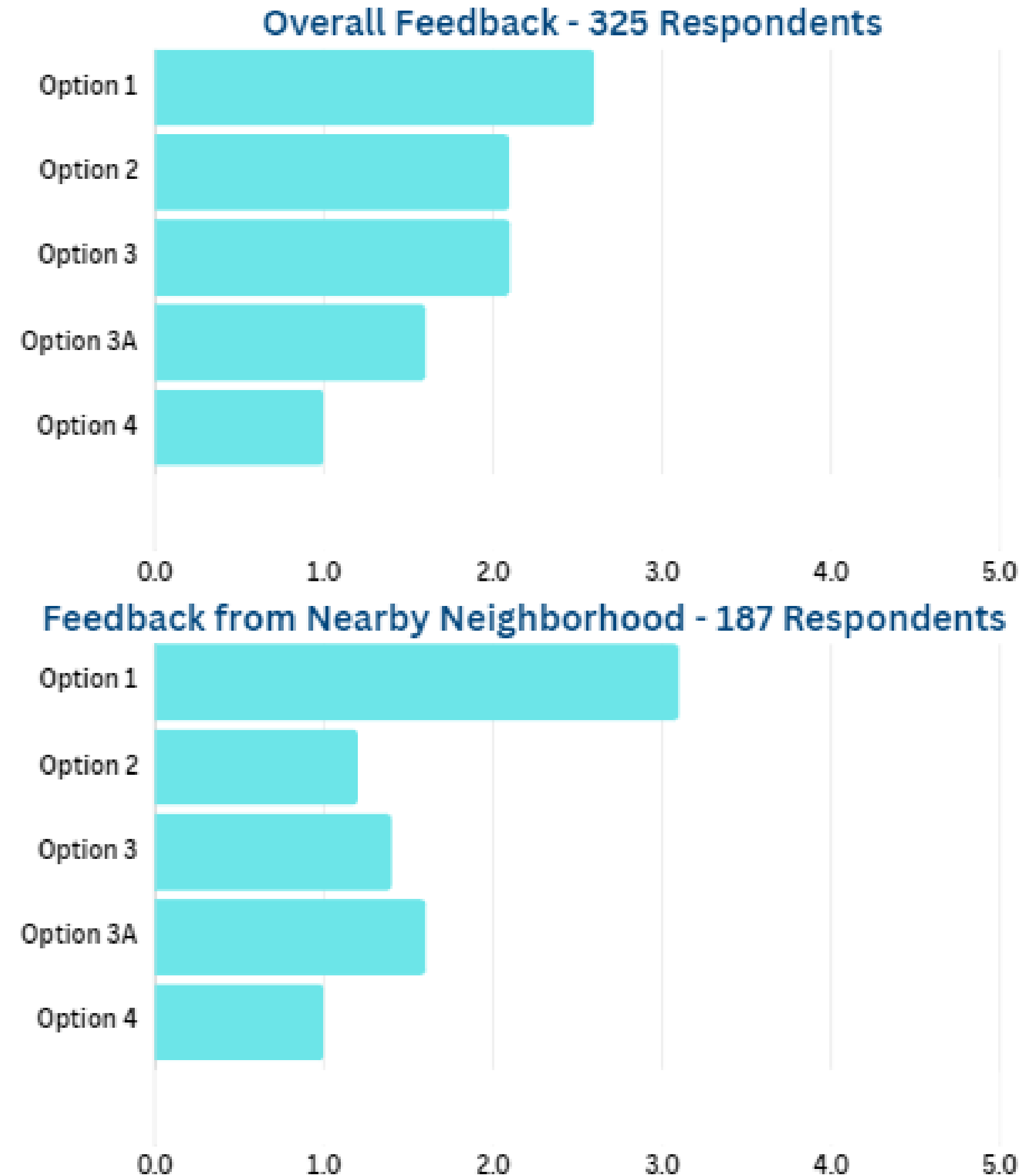
OPTION 1 – Two-way

OPTION 2 – One-way with cycle track

- Staff Recommendation: Option 1
- Taylor Run Citizen’s Assoc.: Options 1 or 3A
- People who live nearby prefer Option 1
- Ped/Bike Advocates - Options 2 or 3

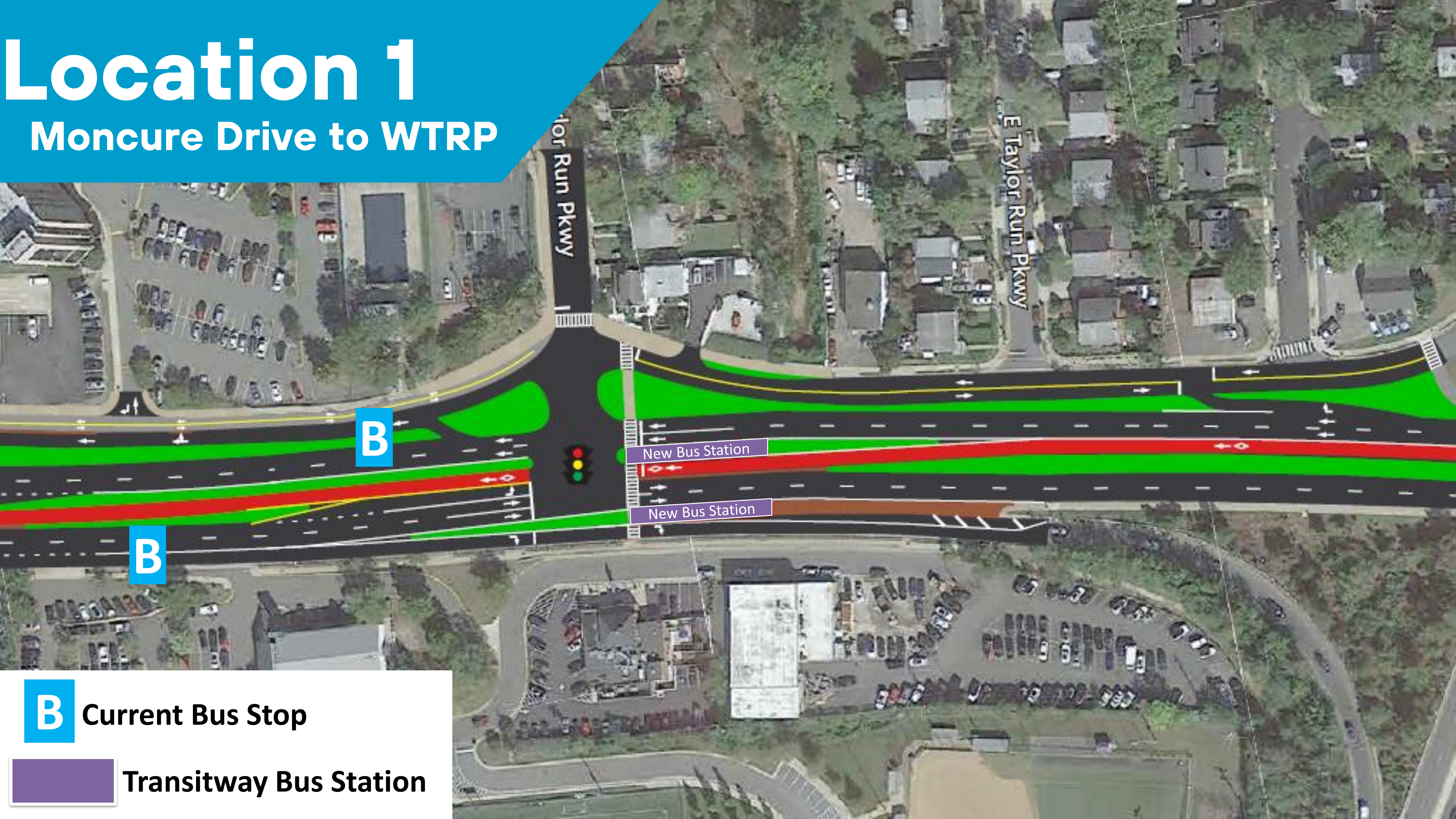
CONTINUING CONCERNS:

- Flooding
- Cut-through traffic on East Taylor Run



Location 1

Moncure Drive to WTRP

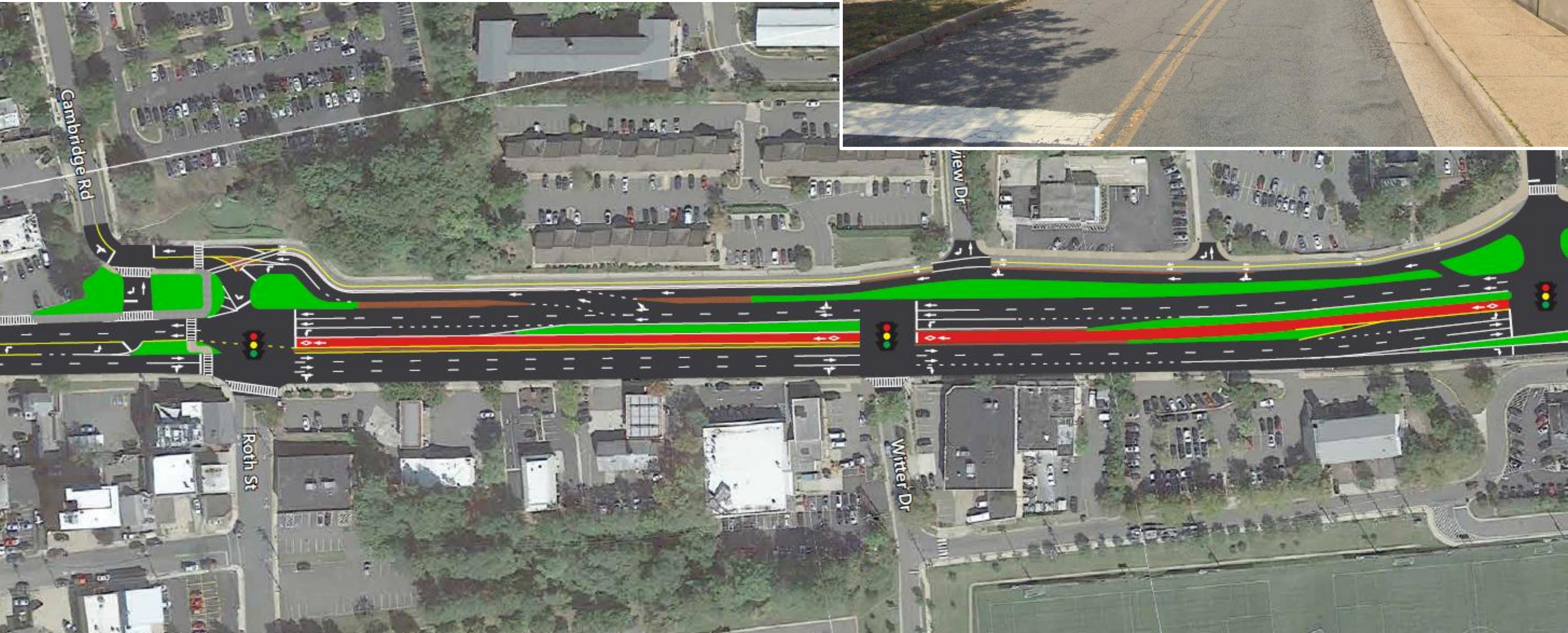


B Current Bus Stop

■ Transitway Bus Station

Location 2

WTRP to Cambridge Road



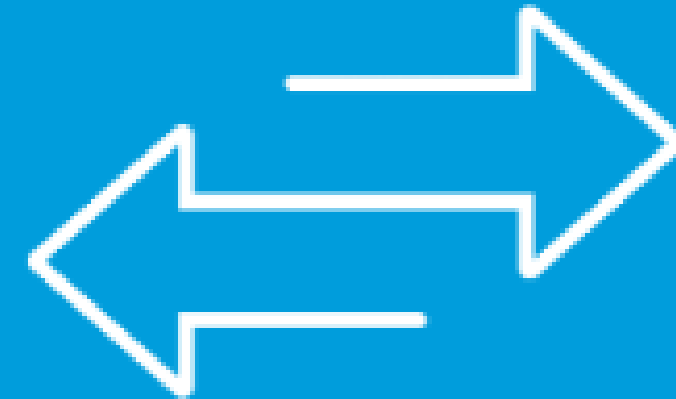
Community Input



Conflict Points for
Safety



Cambridge Road &
Overall
Intersection Level
of service



Service Road
Design

Over 250 responses to feedback form (85% from neighborhood)

- Safety was #1 priority

Location 2

WTRP to Cambridge Road





Location 2 Benefits

- Improves Safety by reducing conflict points **from 41 to 27**
- Reduces Cut Through Traffic by keeping Duke Street moving.
- Reduces Driver Delay by changing signal phasing
 - Wait times for drivers for the full intersection decrease from **more than 2 minutes** to **30 seconds**.
 - Wait times for drivers on Cambridge Road decrease from **more than 3 minutes** to a just **over 1 minute**.



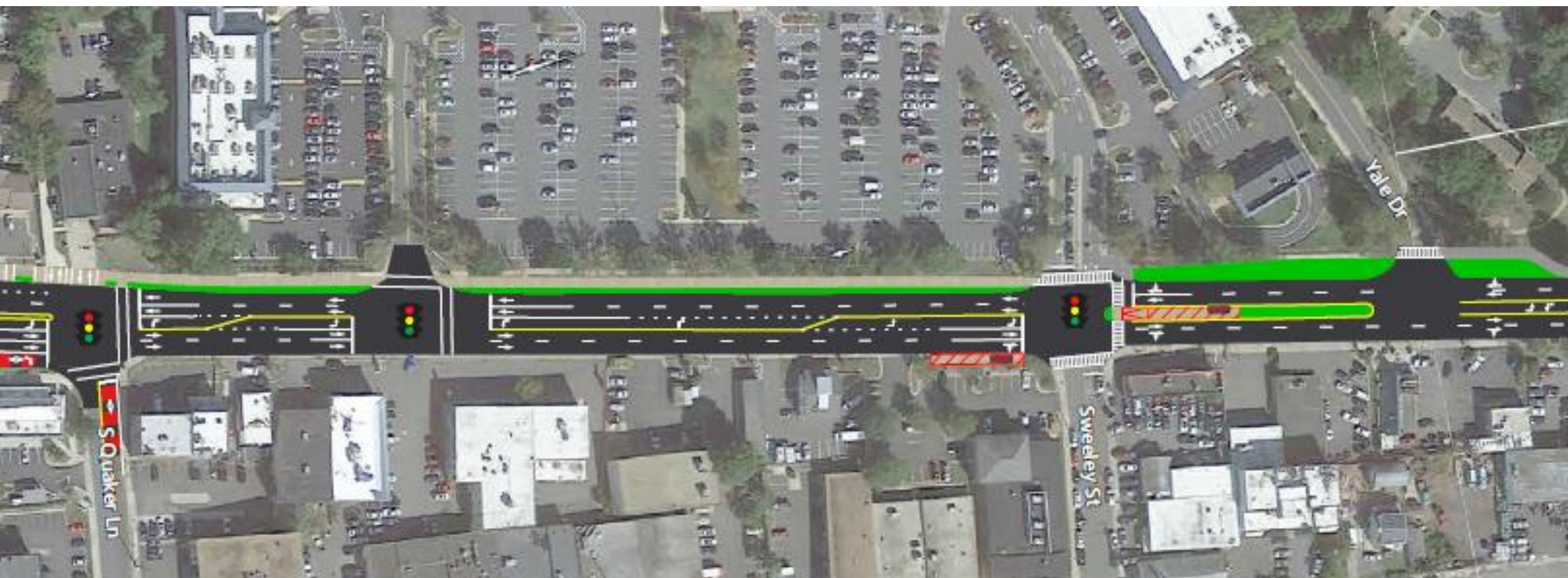
Location 2

Cambridge Road Intersection

Location 3

Segment 2B: Quaker to Cambridge

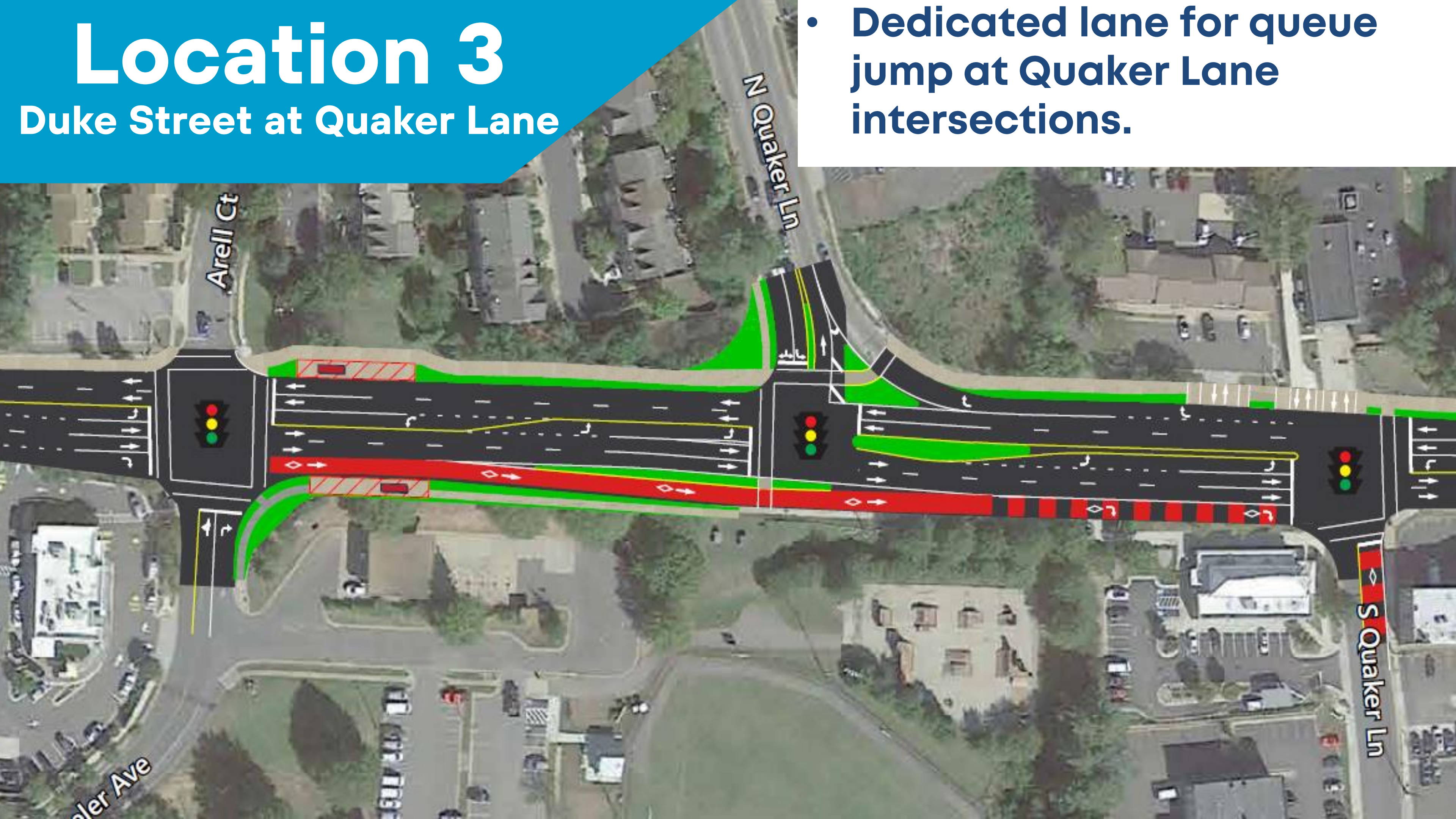
- Approved:
 - One-way dedicated lane.
- Proposed:
 - Mixed traffic with future full build.
 - Queue jump lanes at Quaker Lane.



Location 3

Duke Street at Quaker Lane

- Dedicated lane for queue jump at Quaker Lane intersections.





Staff Recommendation

That City Council:

- **Approve the conversion of the Duke Street service road from a two-way operation to one-way westbound between West Taylor Run Parkway and Cambridge Road, and**
- **Approve the updated conceptual plans for Phase I of the Duke Street Transitway.**