DUKE STREET

Community Outreach Presentation

Public Meeting October 20, 2022

alexandriava.gov/DukeInMotion

This project is funded with Northern Virginia Transportation Authority (NVTA) regional revenues.



Welcome!





Questions followed by open house

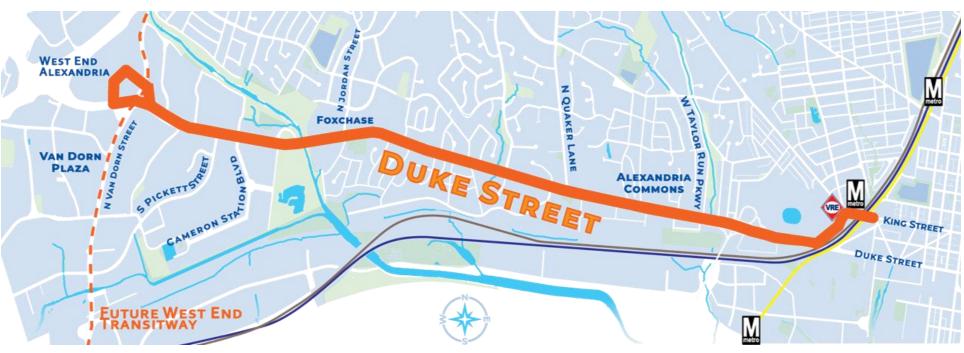


Project Overview



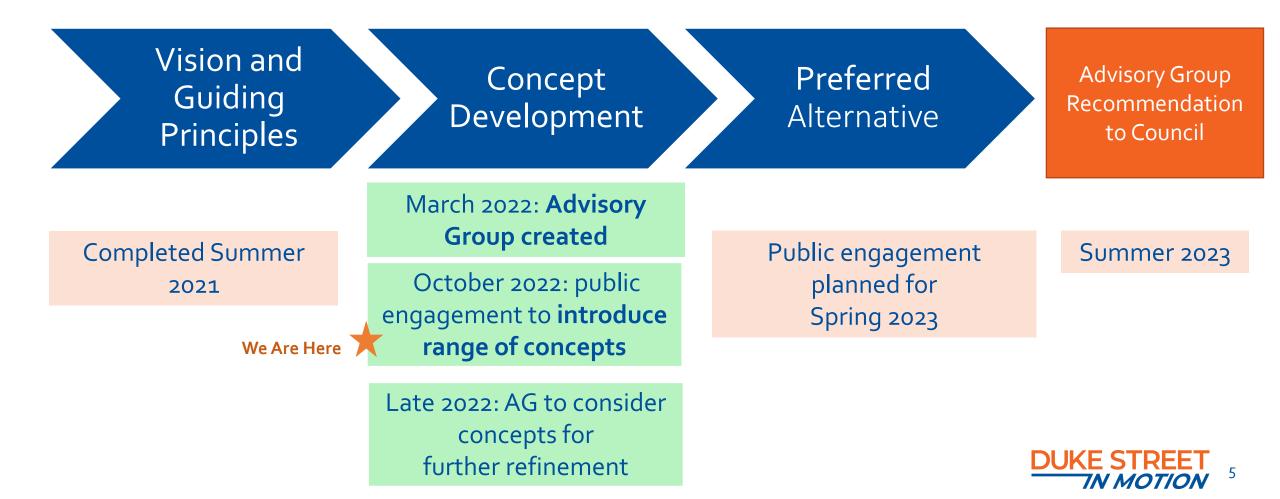
What is "Duke Street In Motion"?

Duke Street IN MOTION is a project focused on ensuring that **transit improvements** in the Duke Street corridor, from Landmark Mall to the King Street Metro Station, provide <u>efficient transportation</u> options that align with all <u>users' needs, wants, and expectations</u>.



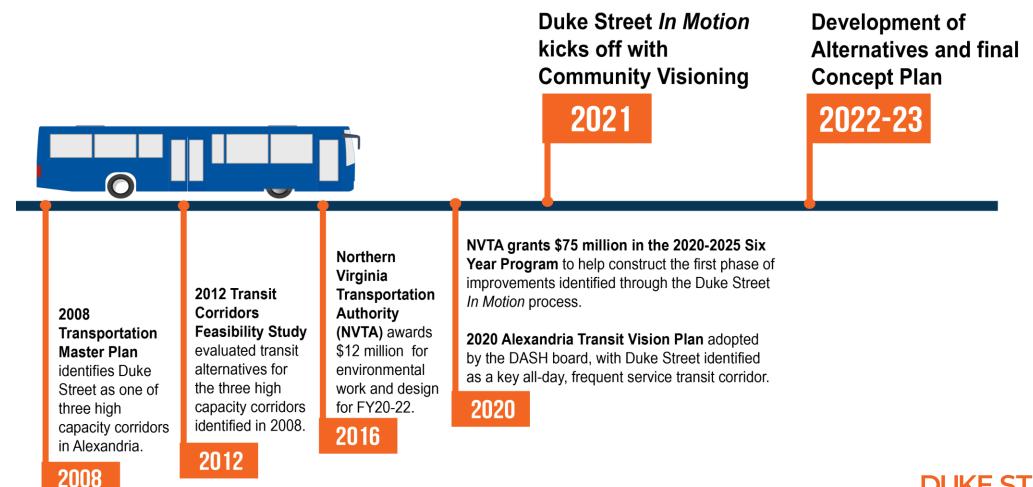


Duke Street in Motion Process



Project Purpose & Background

- Pursue high-capacity transit to achieve City sustainability and equity goals
- Reconsider concept plans in context of 2021 community visioning





What is Bus Rapid Transit (BRT)?

Buses that run more like trains











What do you see in Duke Street's future?

How do you want to get around?

Phase 1 Community Engagement (June 21-July 31, 2021)



1,785 feedback form responses



3,587 project handouts



6,393 received eNews blast



95,889 reached on social media



22 community pop-up events
(2,552 people reached)



92 webinar attendees DUKE STREET

Community Input in Phase 1

88% Want to see reduced traffic



47%

Would ride or would consider riding the bus more often with improvements A

55%

Want to see improved safety

A full summary is available at alexandriava.gov/DukeInMotion



Project Vision

This project will provide an **efficient and desirable bus rapid transit (BRT) option** along Duke Street **by improving the transit experience** for current and potential riders.

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.



Project Guiding Principles

	Convenient	Make bus travel more predictable, frequent, and comfortable
Ŏ	Efficient	Improve mobility for all Duke Street travelers
	Equitable	Use enhanced bus transit to support equitable access for a diversity of people and places
	Safe	Ensure safety and accessibility for those connecting to and riding the bus, as well as other travelers
	Vibrant	Create and enhance thriving and future corridor destinations that improve resident quality of life and boost the local economy
	Sustainable	Contribute positively to the environment, now and in the future



Duke Street Projects

WEST TAYLOR RUN INTERSECTION IMPROVEMENT ADAPTIVE TRAFFIC SIGNAL CONTROL DUKE STREET TRAFFIC MITIGATION PILOT







To learn more about all the ways the City is working to make Duke Street work better, please visit alexandriava.gov/transportation-planning/duke-street-projects.



Why Bus Rapid Transit on Duke Street?



Why BRT on Duke Street?

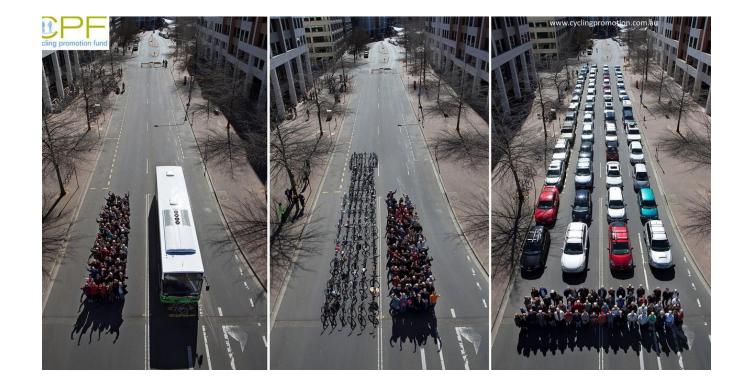
Greenhouse gas emissions

Air quality

Equity

Choices

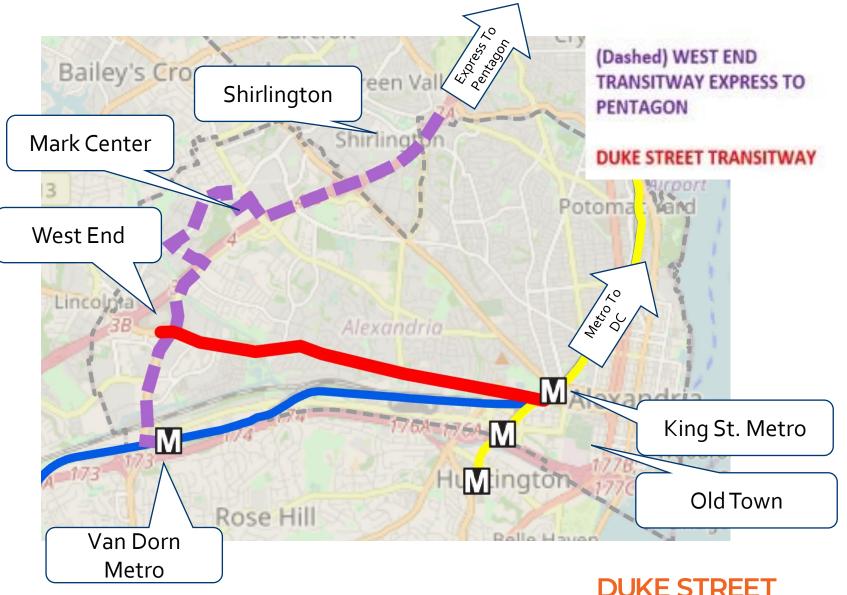
Congestion management





Factors for Success

- High frequency transit connections to major activity centers
- Core base ridership: ~3000/day
- Competitiveness with driving



15

7N MOTION

Placemaking and Livability





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Route 1 Before
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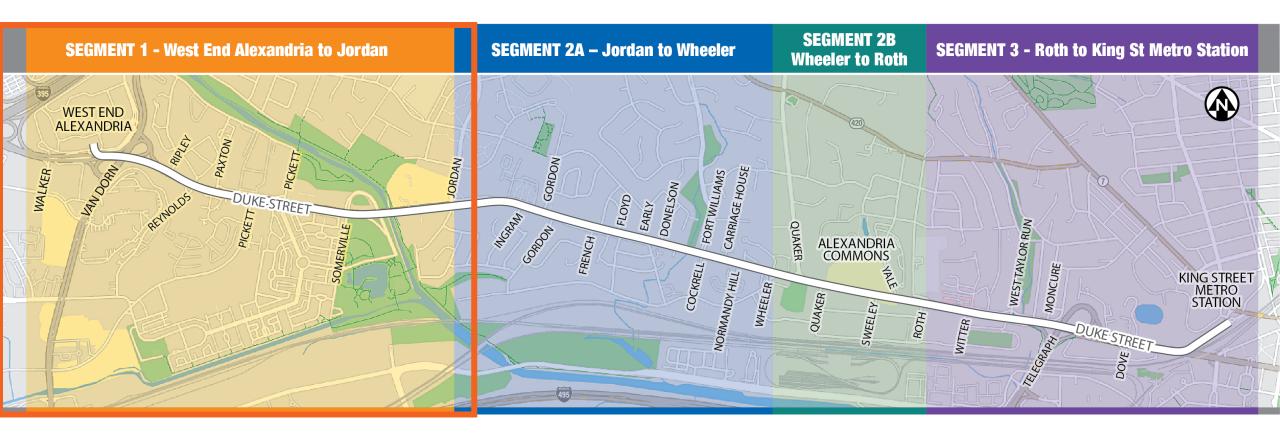
Route 1 After



Segment 1 Overview & Existing Conditions

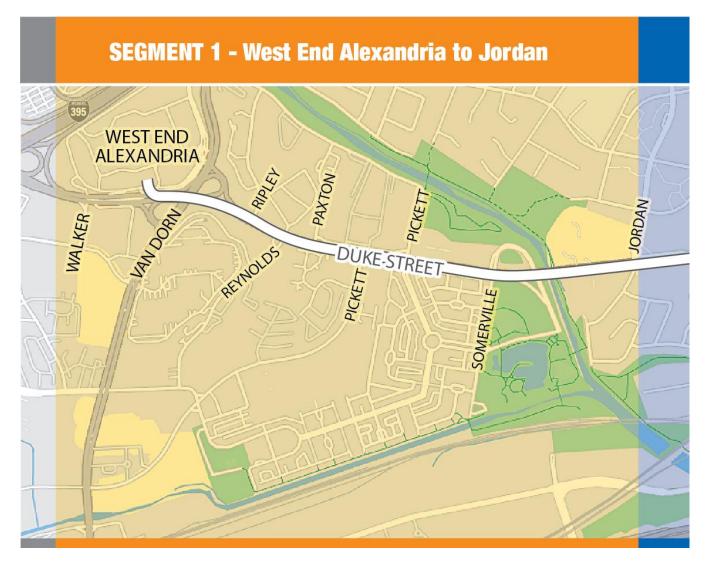


Corridor Segments





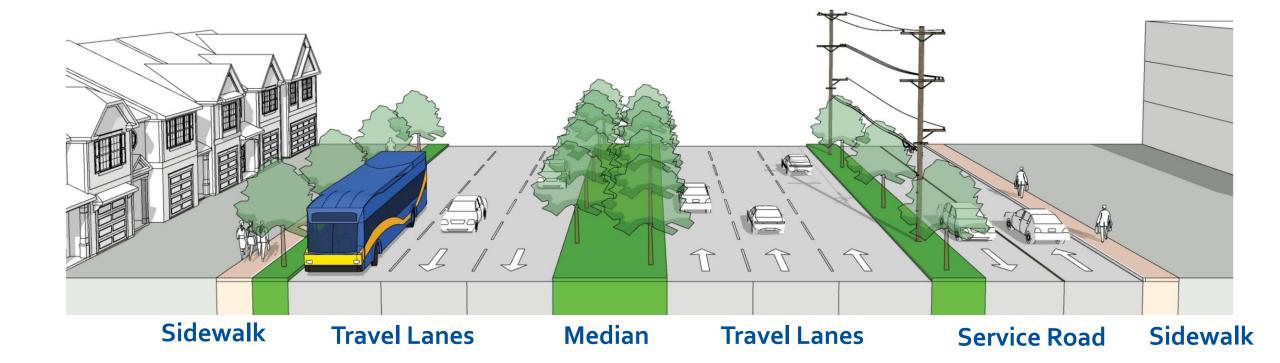
Segment 1: West End Alexandria to Jordan Street







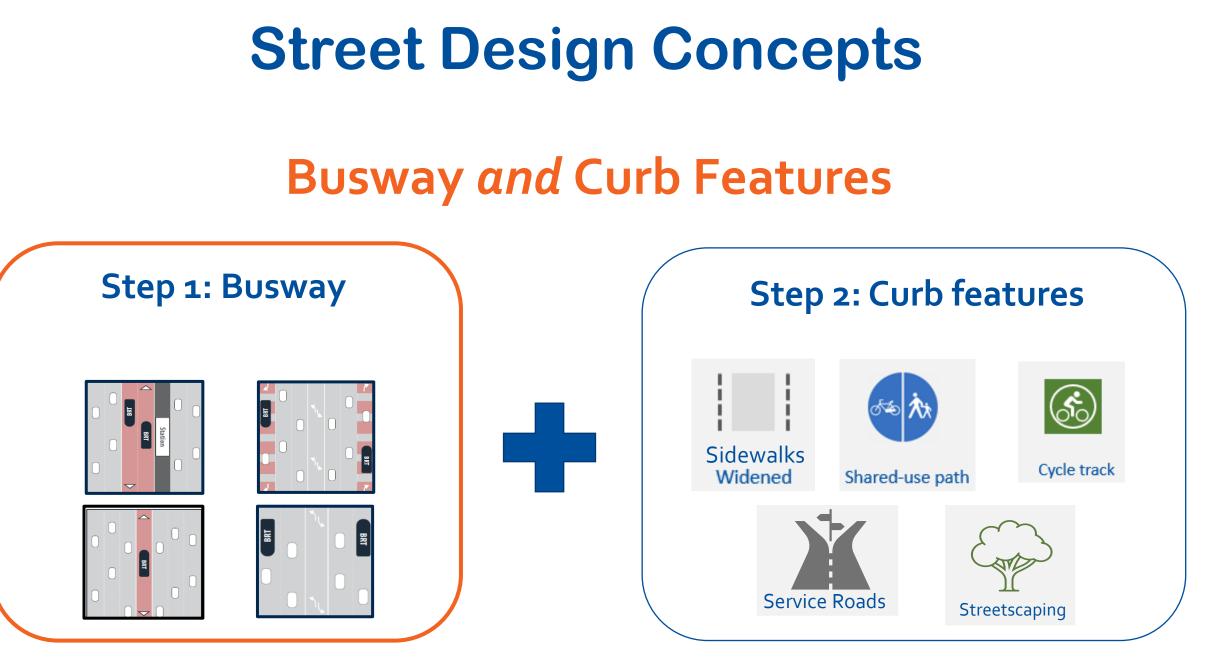
Segment 1: West End Alexandria to Jordan Street





Segment 1 Concepts

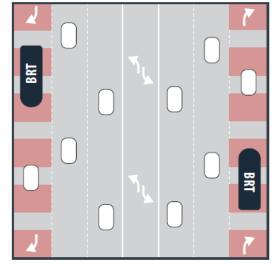






Bus Improvements Can Take Different Forms

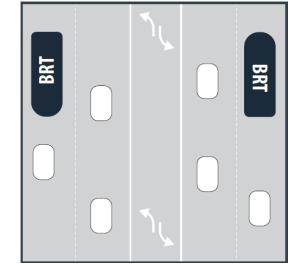
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Center Running

Curb Running

Bidirectional Lane

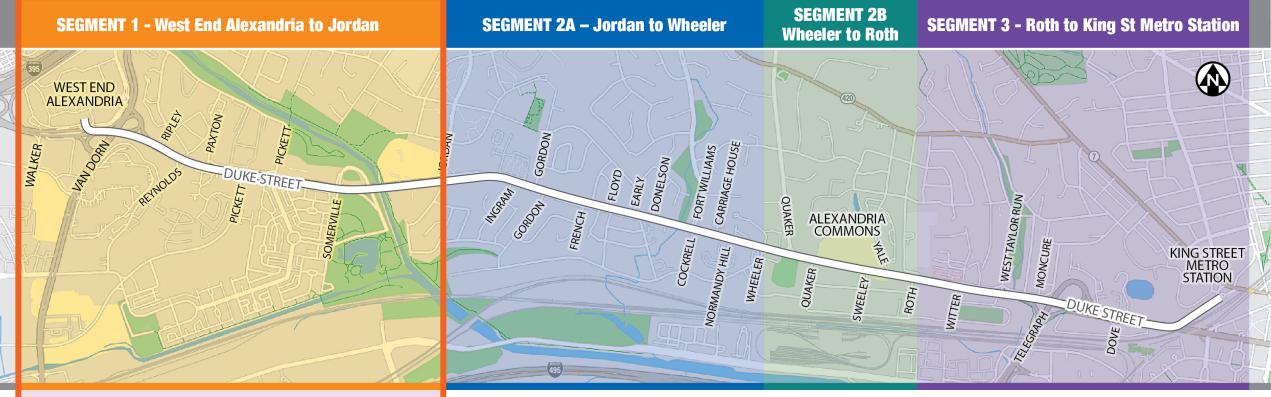


Mixed Traffic

A BRT can mix different treatments to make bus service faster and more reliable



Concept Summary



Segment 1

- Center running
- Curb running
- Mixed traffic

Segment 2A

- Center running
- Hybrid
- Mixed traffic

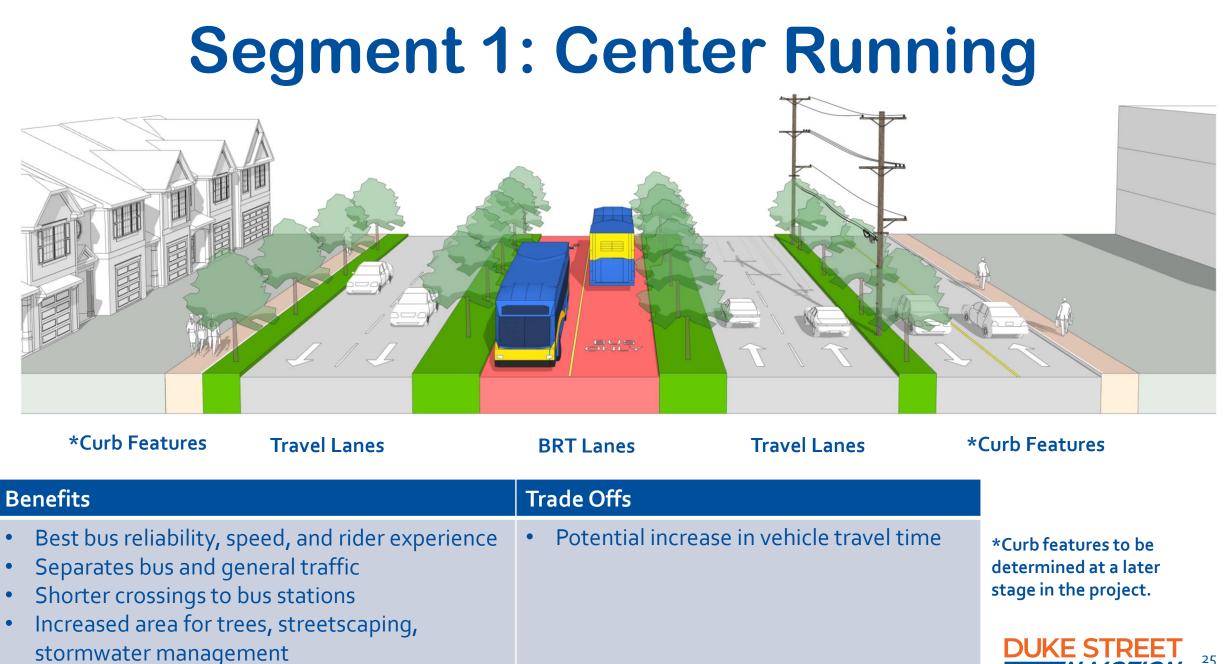
Segment 2B

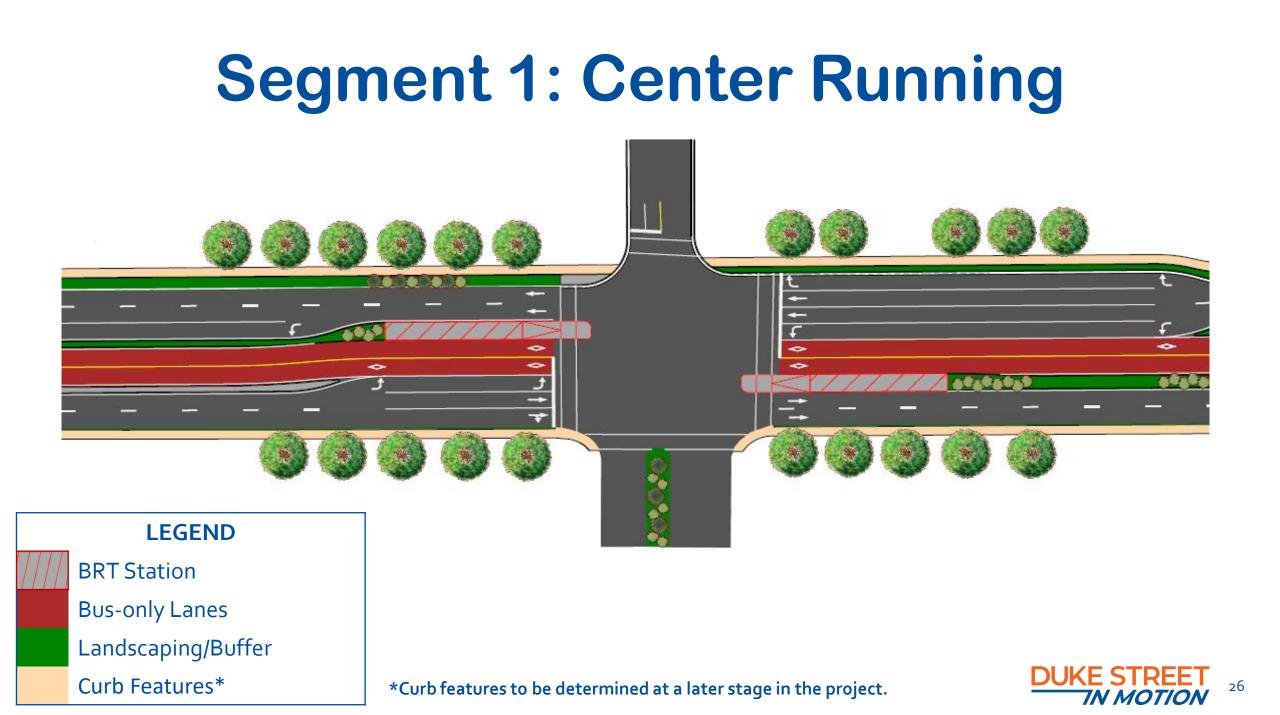
- Center running
- Bidirectional
- Mixed traffic

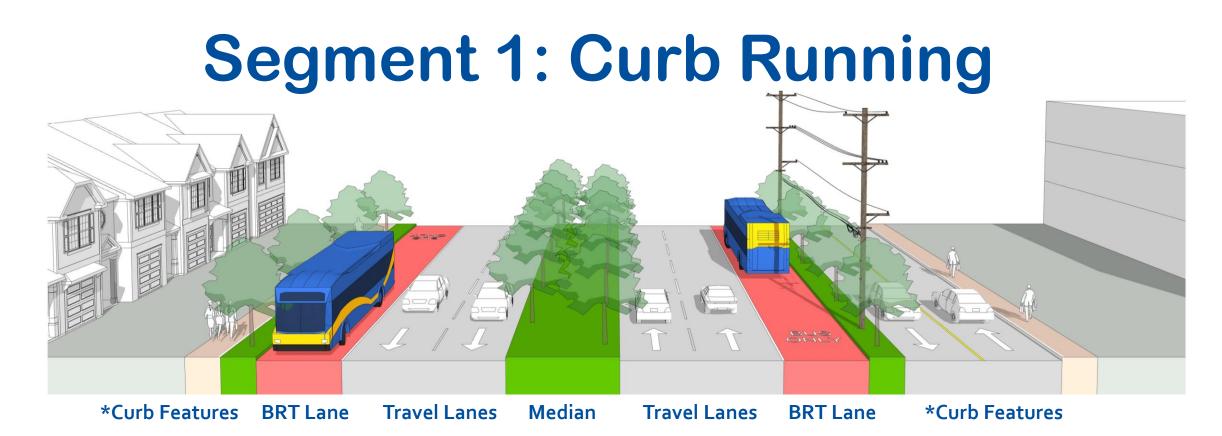
Segment 3

- Center running
- Curb running
- Mixed traffic



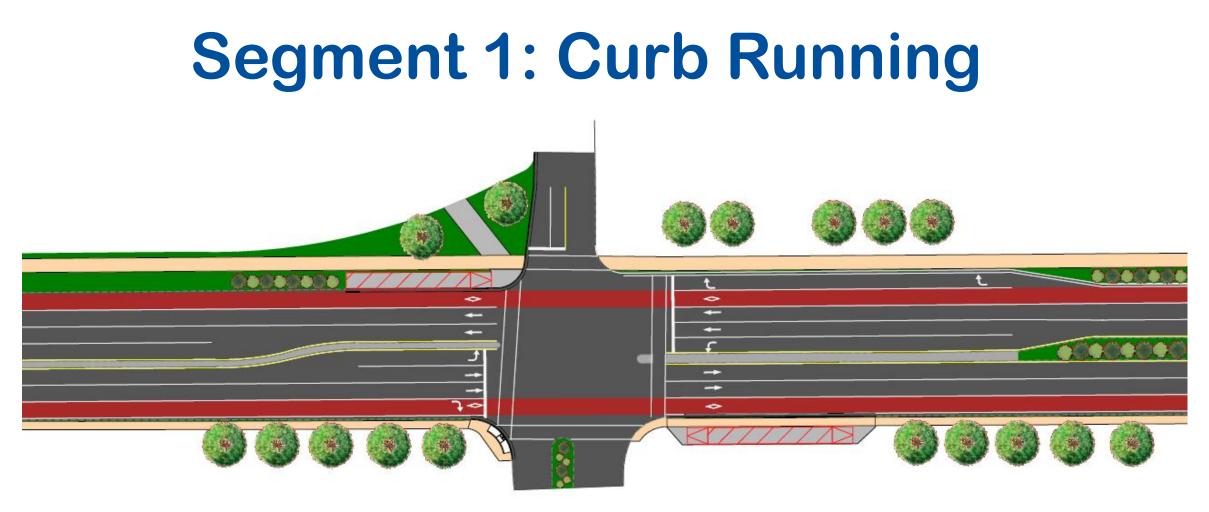






Benefits	Trade Offs	
 Improved bus reliability, speed, and rider experience Maintains median and tree canopy Separates bus from most vehicle traffic 	 Potential increase in vehicle travel time Right-turning vehicles use bus lanes, which reduces bus reliability 	*Curb features to be determined at a later stage in the project.



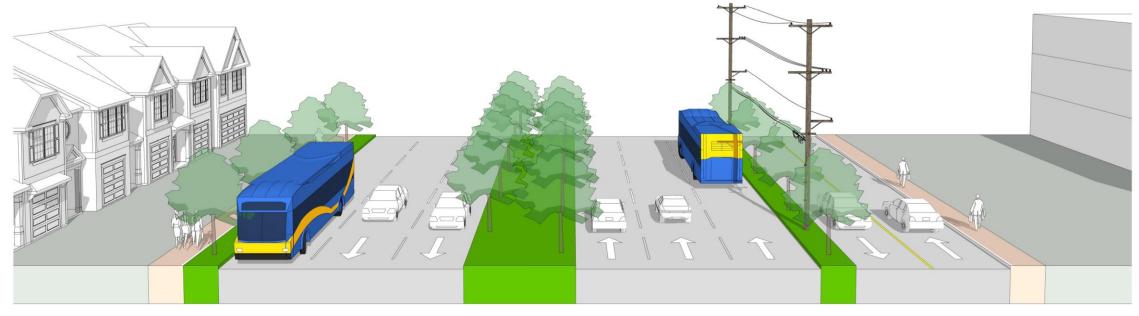




*Curb features to be determined at a later stage in the project.



Segment 1: Mixed Traffic



*Curb Features

Travel Lanes

Median

Travel Lanes

*Curb Features

res to be at a later project.



Segment 1: Mixed Traffic





Curb Features*

Concept Summary



Segment 1

- Center running
- Curb running
- Mixed traffic

Segment 2A

- Center running
- Hybrid
- Mixed traffic

Segment 2B

- Center running
- Bidirectional
- Mixed traffic

Segment 3

- Center running
- Curb running
- Mixed traffic



Next Steps



Upcoming Events







Webinar

• Oct 1

• Project website

Pop-up Events

Throughout October7-10 events

In-Person Meeting Dates/Locations

October 12	Segment 3 Meeting (a) Bishop Ireton School	6:30-8:30 PM	
October 17	Segment 2 Meeting @ Bishop Ireton School	6:30-8:30 PM	
October 20	Segment 1 Meeting @ Patrick Henry Rec Center	6:30-8:30 PM	
October 26	Open House @ Patrick Henry Rec Center	5:30-8:30 PM	

Focus Groups

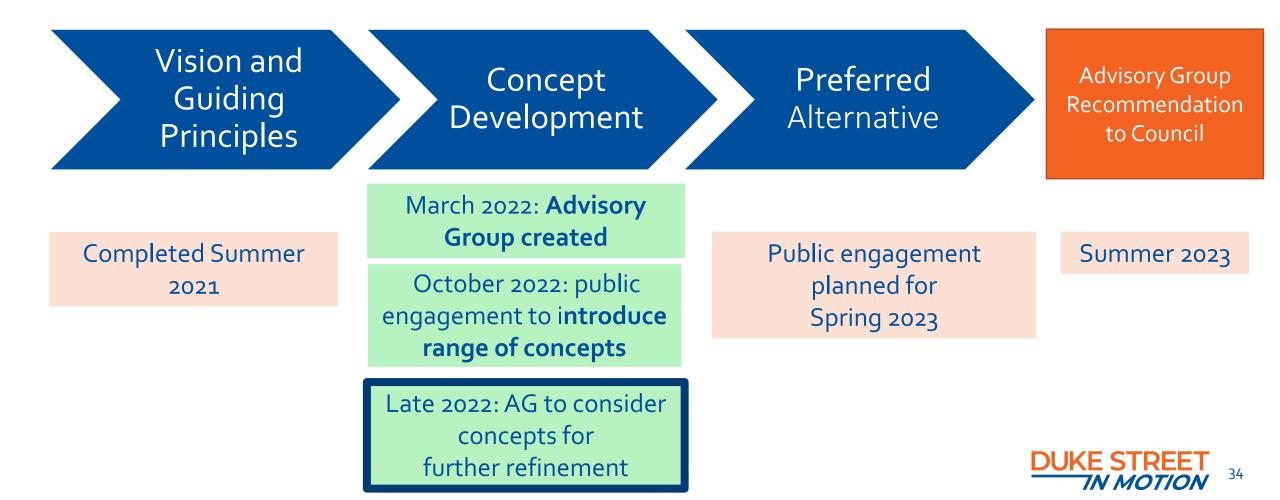
- 4+ events to target underrepresented groups
 - Renters
 - Transit riders
 - Youth
 - Spanish speakers
 - Businesses

In-Person Meetings

- Throughout October
- 4 in-person events
- Segment focused
- Open house for entire corridor
- Build your own Duke Street



Duke Street in Motion Process



Thank you!

→ Visit boards
→ Speak with Project Team
→ Complete feedback form



alexandriava.gov/DukeInMotion



Q&A

- One question per attendee
- The project team will be available afterwards for additional questions
- FAQs will be posted on the website
- Please provide comments using the feedback form

