

# Transportation Commission

November 15, 2023  
7PM



# Notice

The November 15 meeting of the Transportation Commission is being held in the City Council Workroom on the second floor of City Hall (301 King Street, Alexandria, Virginia, 22314) and electronically. Members of Transportation Commission and staff are participating either in-person or from a remote location through video conference call on Zoom. The meeting can be accessed by the public in-person or via Zoom



# Commission Members

- **Leslie Catherwood** – Resident East
- **Casey Kane** – Traffic and Parking Board, Eisenhower West/Landmark/Van Dorn Advisory Group
- **Tim Lovain** – Resident East with Transportation Expertise
- **Jody Manor**- Planning Commission
- **Jim Maslanka**– Resident West
- **Melissa McMahon** – Planning Commission
- **Matthew McManus** – Resident West, DASH Advisory Committee
- **Murat Omay** – DASH Board
- **John Chapman** – Council (non-voting)
- **Kirk McPike** – Council (non-voting)
- **Vacant** – Environmental Policy Commission



# Public Comment Period

Agenda Item #1



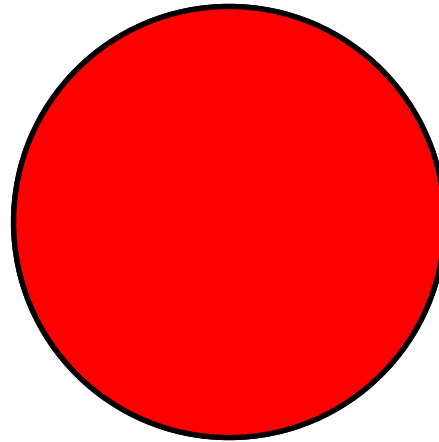
# Public Comment

- For speakers not discussing items related to the public hearings.
- For virtual attendees:
  - Raise hand or press \*9
  - Mute or unmute press \*6
  - 3 minutes per speaker



## 3 Minute Timer

*Announcement will sound automatically when time is up*



# **Transportation Commission Minutes: October 18, 2023**

Agenda Item #2



# Smart Mobility Update

Agenda Item #3







# ALEXANDRIA SMART MOBILITY

## Program Update

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November 15, 2023

[AlexandriaVA.gov/SmartMobility](https://alexandriava.gov/smartmobility)

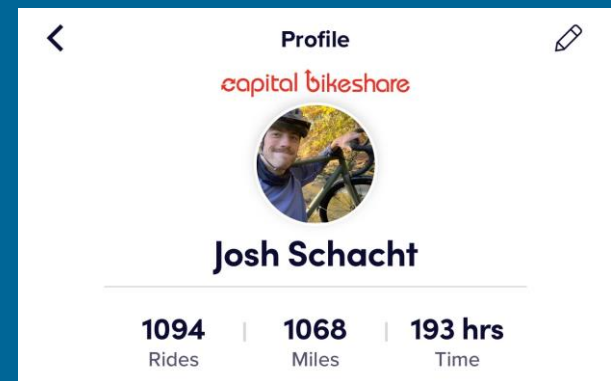


# ALEXANDRIA SMART MOBILITY

## Program Update

November 15, 2023

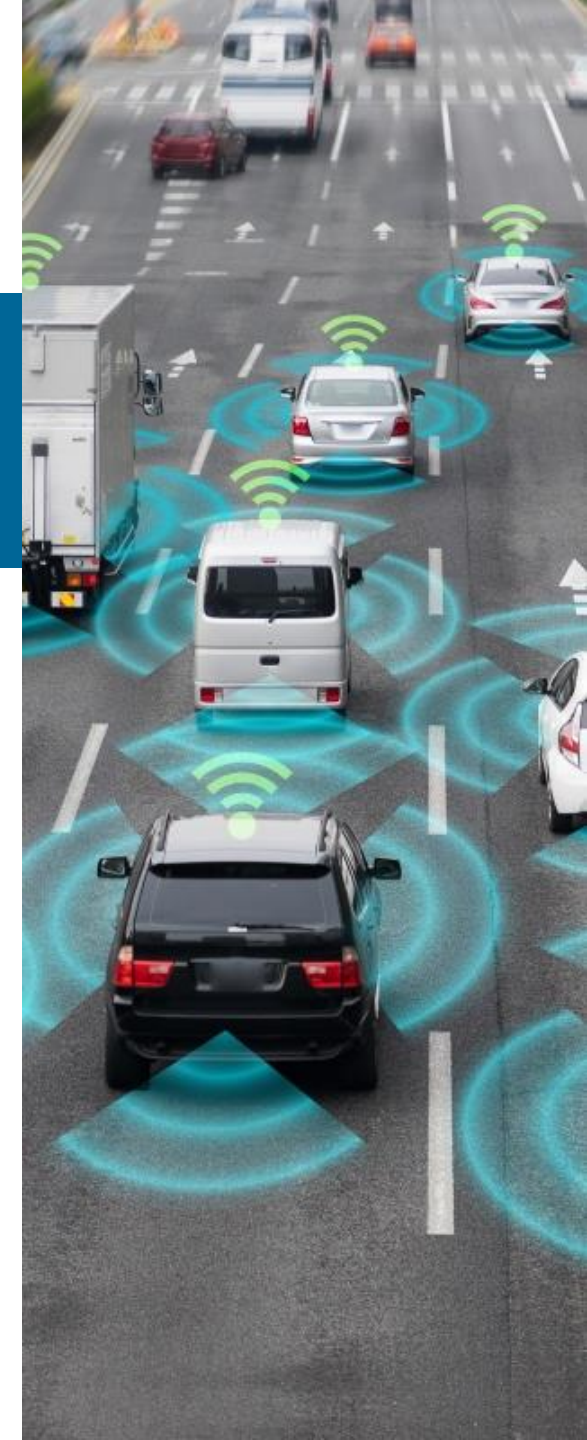
[AlexandriaVA.gov/SmartMobility](https://alexandriava.gov/SmartMobility)





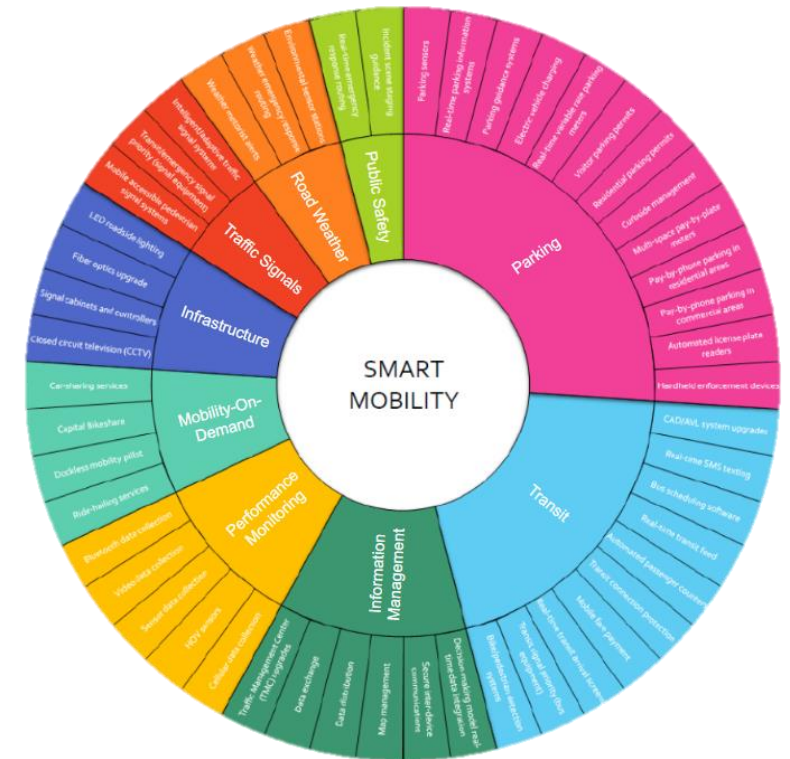
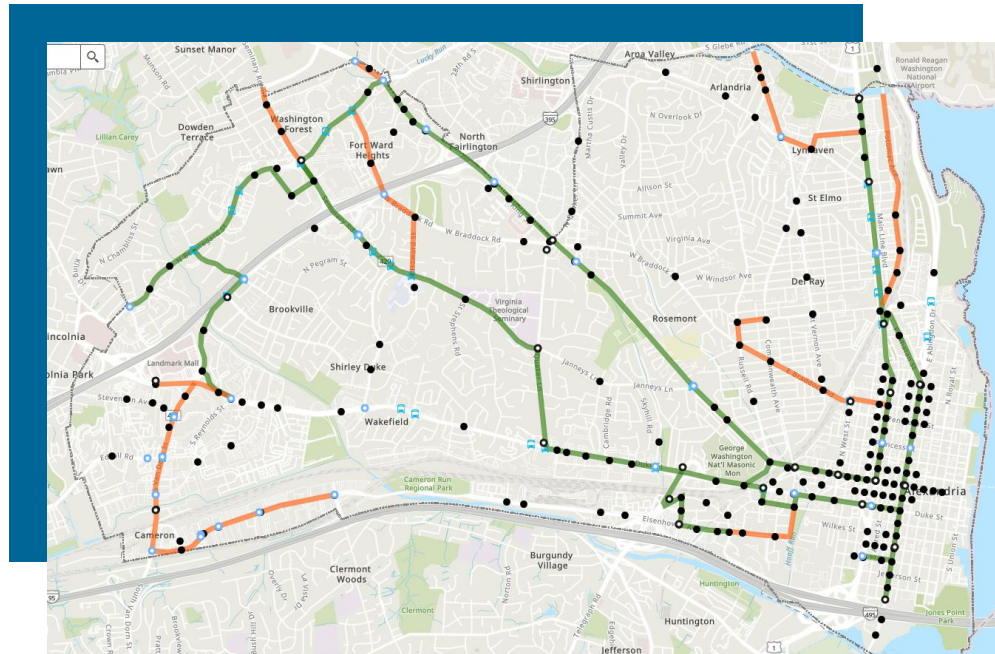
# Embracing Technology to Manage Our Transportation System

Smart Mobility exists at the intersection of technology and transportation. This program brings in new technologies and organizes data to better orchestrated city-wide traffic patterns to improve trip reliability and increase travel options. It also strives to provide individual travelers with information they need to take safer and more enjoyable trips.



Alexandria has made a significant investment in Smart Mobility over the last 10 years.

- Fiber for traffic signals
- CCTV cameras
- Parking apps
- Transit Signal Priority
- Micro-mobility management



These projects have paved the way for our work today.



# The Present: Current Priorities

**TRANSIT**



**PARKING**



**TRAFFIC SIGNALS**



**MOBILITY ON DEMAND**



**INFRASTRUCTURE**



**PUBLIC SAFETY**



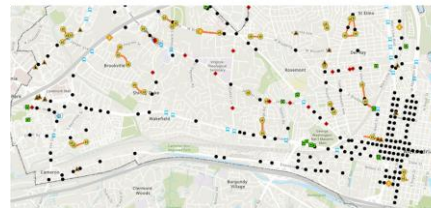
**ROAD WEATHER**



**PERFORMANCE MONITORING**



**INFORMATION MANAGEMENT**



## Guiding Principles

- Safety
- Mobility
- Forward-Looking
- Sustainability
- Traffic Management
- Transparency

# The Present: Current Projects

## VTTI Smart Intersection Deployment

**Where:** Potomac Avenue and E. Glebe Road

**When:** Installed November 6, 2023

**What:** 5 devices were installed to measure safety conditions like near misses, driver and pedestrian behavior, and traffic volumes

**Why:** This process provides valuable safety information about the intersection near the new metro station. It also serves as an evaluation of different tools that could be used elsewhere in the city and solidifies a partnership with the Virginia Tech Transportation Institute.



**VT** VIRGINIA TECH  
TRANSPORTATION INSTITUTE

City of Alexandria  
Smart Intersection Deployment  
Phase 1 - Statement of Work  
January 2023



## The Present: Current Projects

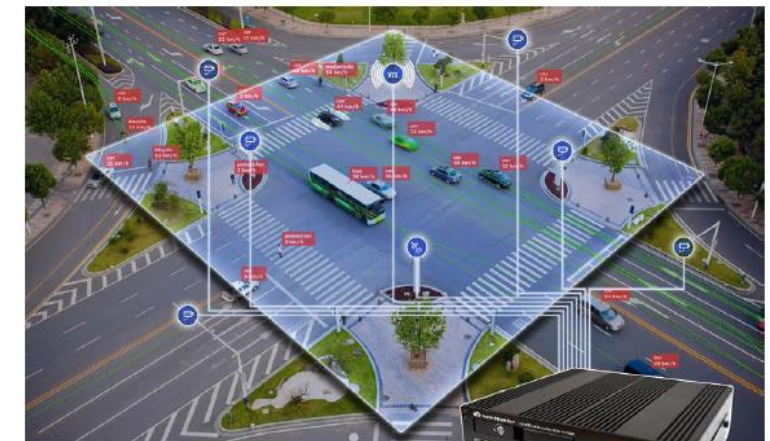
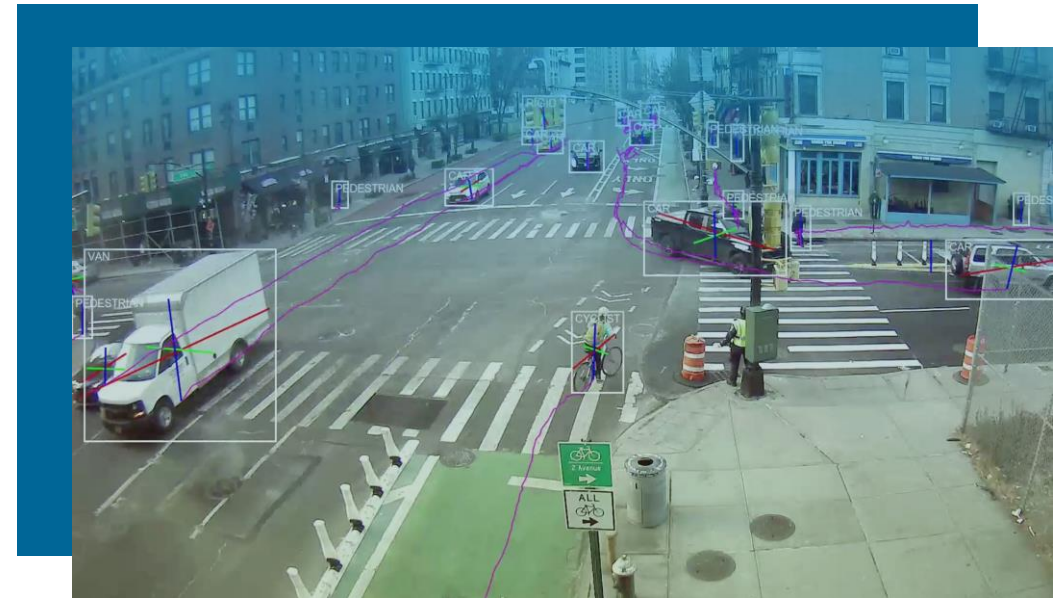
Safety and Volume Data

**Where:** E. Braddock Road and N. West Street, multiple locations

**When:** December 2023

**What:** 2 additional devices that collect traffic behavior and safety information.

**Why:** These pilots help us understand how dangerous an intersection is before collisions occur. They also help to make traffic data collection safer, cheaper, and easier.



Thunder ITSP-T600-AI

## The Present: Current Projects

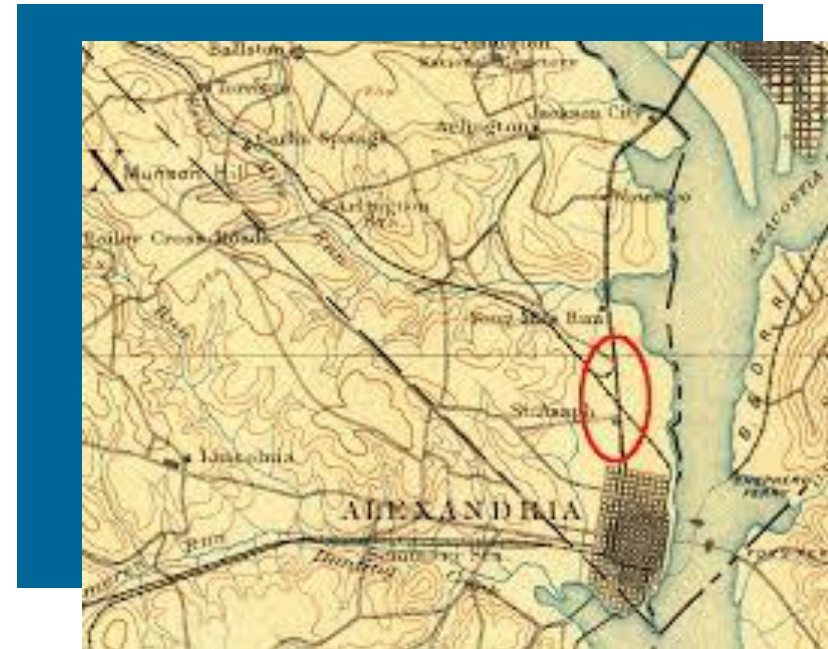
### Connected Vehicles

**Where:** Potomac Yard area

**When:** 2028 (proposed)

**What:** Vehicle-to-Infrastructure devices that allow for key safety and signal phase data to be exchanged between cars and intersection controllers.

**Why:** This technology can alert drivers of dangers road conditions and reduce congestion by optimizing approach speeds to traffic lights. It also will build key infrastructure to prepare for potential future autonomous vehicles.



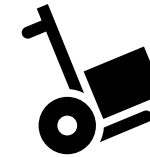


# The Future: Forward-Thinking Priorities



## Autonomous Vehicles Preparedness

- Supporting policy that empowers Alexandria with local permitting and enforcement
- Promoting data sharing for transparency around safety and equity



## Dynamic Asset Management

- Building a full inventory of signs, signals, controllers, and tech
- Change management processes to keep inventory up to date
- Maintaining a live list of asset needs to help triage efforts

# Action Item: Consideration of Endorsement of CMAQ/RSTP Grant Application

Agenda Item #4



# CMAQ / RSTP FUNDING

- Funding requests are bundled to provide NVTa maximum flexibility, increasing its ability to fund more projects
- Alexandria typically receives a larger share of CMAQ funding

## CMAQ

Funds projects that reduce emissions and improve air quality.

- New Projects that Reduce Emissions
- Operating Costs for Initial 3 Years of New/Expanded Service
- Non-Motorized Capital Projects
- Transportation Demand Management

## RSTP

More flexible funds for projects that improve or preserve transportation infrastructure:

- General Non-Motorized Capital Projects
- Research & Studies
- Bike/Ped Improvements, Trails, ADA Upgrades
- Transportation Demand Management
- Intelligent Transportation Systems (ITS)
- Shelters and Stations



# Previous Funding Totals

Typical **CMAQ**  
funding amounts:  
**\$2.1M – \$2.8M**

Typical **RSTP**  
funding amounts:  
**\$1.0M – \$1.45M**

Year	Funding
FY 2021	\$4,280,860
FY 2022	\$4,000,000
FY 2023	\$4,300,000
FY2024	\$5,278,845
FY 2025	\$4,449,892
FY 2026	\$6,008,226
FY 2027	\$4,804,589
FY 2028	\$4,550,554
FY 2029	\$4,914,995



# Timeline & Process

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- |               |  |
|---------------|--|
| November 15   | • <b>Transportation Commission Consideration</b>                   |
| December 12   | • City Council Consideration                                       |
| January, 2024 | • City submits funding request to NVTa                             |
| Spring 2024   | • NVTa makes funding determinations and transmits approvals to CTB |
| June 2024     | • CTB incorporates projects into Six Year Plan for approval        |



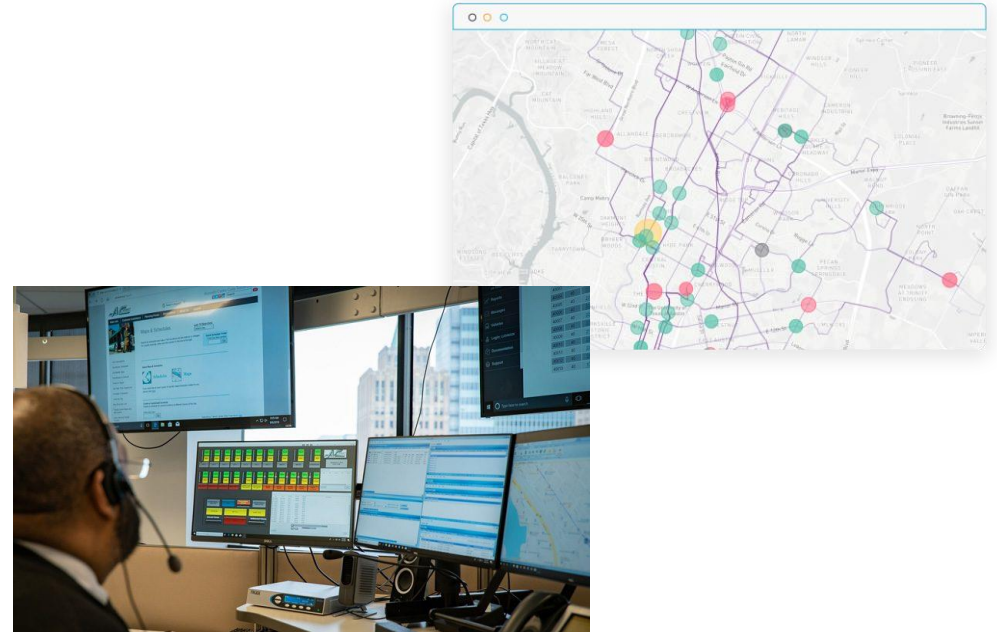
# FY30 CMAQ / RSTP Request

Project Name	FY 2030
DASH Technology	\$1,000,000
Mt. Vernon Avenue North	\$1,000,000
Multimodal Access Study	\$500,000
Safe Routes to School	\$1,500,000
DASH Charging	\$1,000,000
<b>TOTAL</b>	<b>\$5,00,000</b>



# DASH Technology

- CAD/AVL (Computer-Aided Dispatching & Automated Vehicle Locator)
  - Active Service Monitoring
  - Driver Communications
  - Operational Metrics
  - Real-Time Customer Information
- Current system installed 2015
  - 10-year useful life



# Mt. Vernon Avenue North

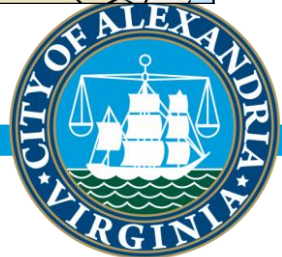
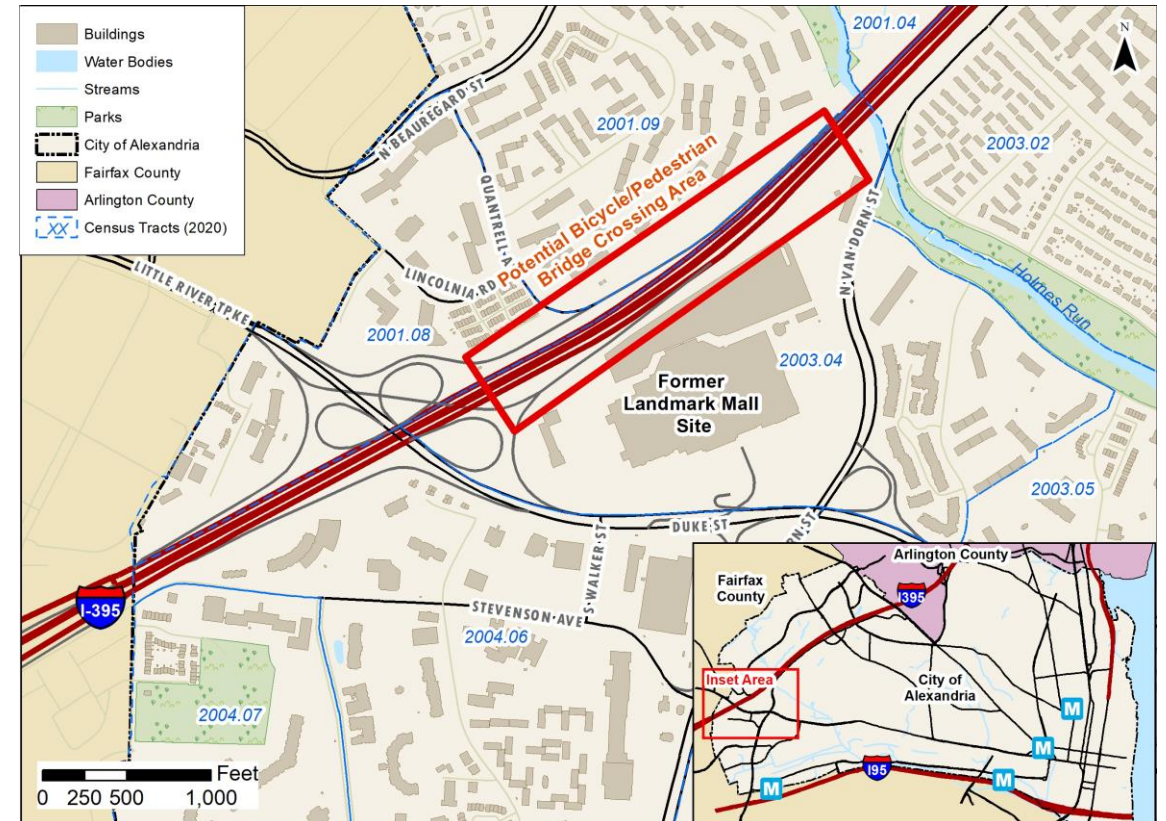
- Safety Improvements in Arlandria
- Focus on Mount Vernon at Glebe Road intersection
- Recommended in Small Area Plan
- Capital intensive





# Multimodal Access Study

- Multiple connections needed and recommended in the Landmark/Van Dorn Small Area Plan or other Small Area Plan
  - I-395 Bridge to the West End
  - Access over Backlick Run
  - Access over rail tracks



# Safe Routes to School

- Capital intensive “long-range” recommendations
- Specific measures not yet determined
  - Flexibility for future needs



# DASH Charging

- DASH Goal:  
100% Zero Emissions Fleet by 2037
- Requires add'l charging capabilities
- On-Route Opportunity charging
- Fast-Charging



# Recommendation

- That Transportation Commission endorse the FY 2030 CMAQ/RSTP funding request to City Council for an application of up to \$5M

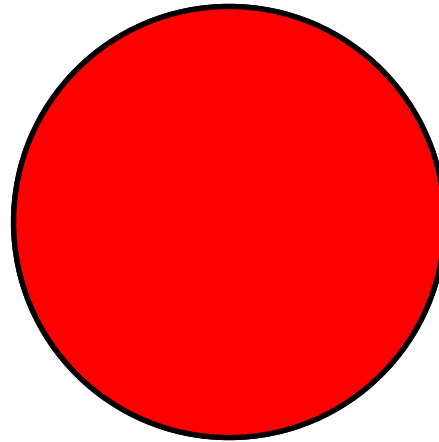


# Public Hearing



## 3 Minute Timer

*Announcement will sound automatically when time is up*



# Commissioner Discussion



# Commissioner Updates

Agenda Item #5





# Commission Members

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- **Oleksandr Faryga** – Environmental Policy Commission
- **Casey Kane** – Traffic and Parking Board, Eisenhower West/Landmark/Van Dorn Advisory Group
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# Items for Consent

Agenda Item #6



# Other Business

- December Meeting
- Discussion Topics for 2024



# Adjourn Transportation Commission Meeting

Next meeting: December 20, 2023

