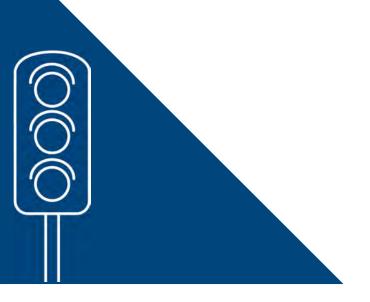


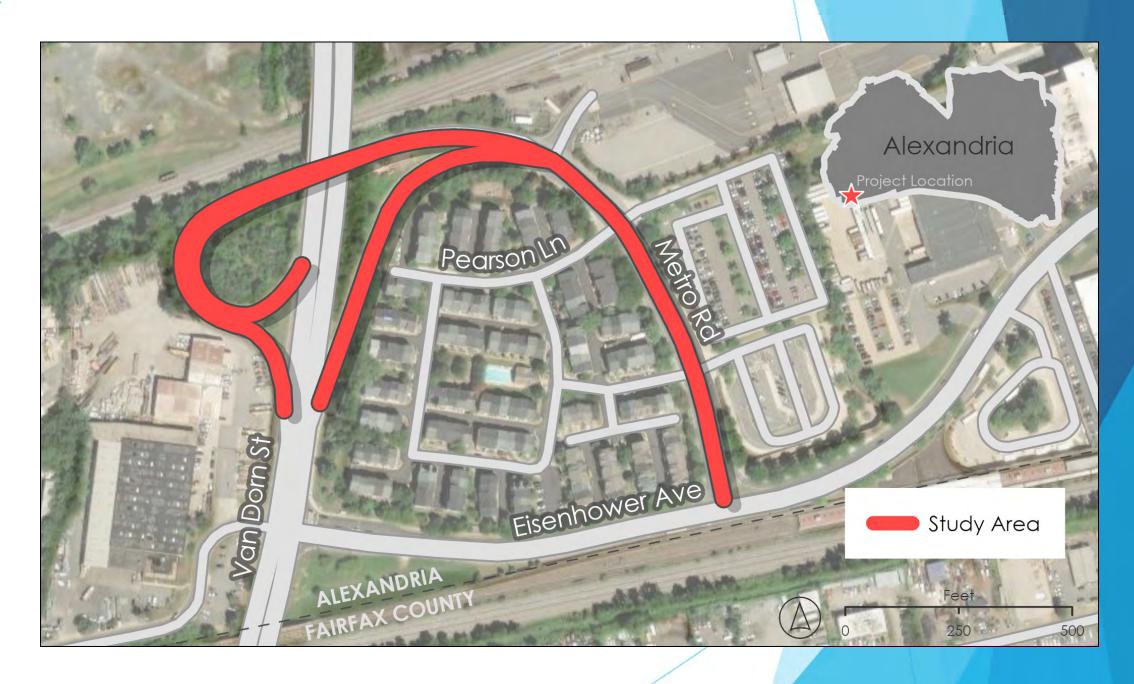
Metro Road Improvement Project

March 25th, 2025



Study Purpose

- Evaluate Metro Road between Van Dorn Street and Eisenhower Avenue
- Mitigate existing and future concerns from upcoming projects and developments
- Develop a plan to be implemented with repaving



Project Goals



Improve Safety for all users, Reduce Speeds, Limit Noise



Keep Buses and Shuttles moving



Reduce backups and congestion



Improve and maintain access on Metro Road

Metro Road

What we've heard

Speeding

Crossing the Road to Metro

Pedestrian
Safety and
Access

Poor sight distances

Metro Road Curve Safety

Increased traffic

Moving Traffic Efficiently Pearson Lane Traffic Signal

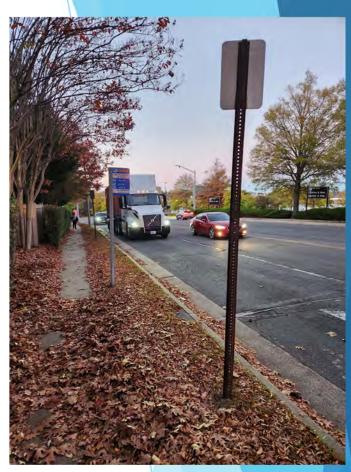
Noise

Mixture of bus traffic

Heavy/Com mercial Vehicles

Pavement Conditions



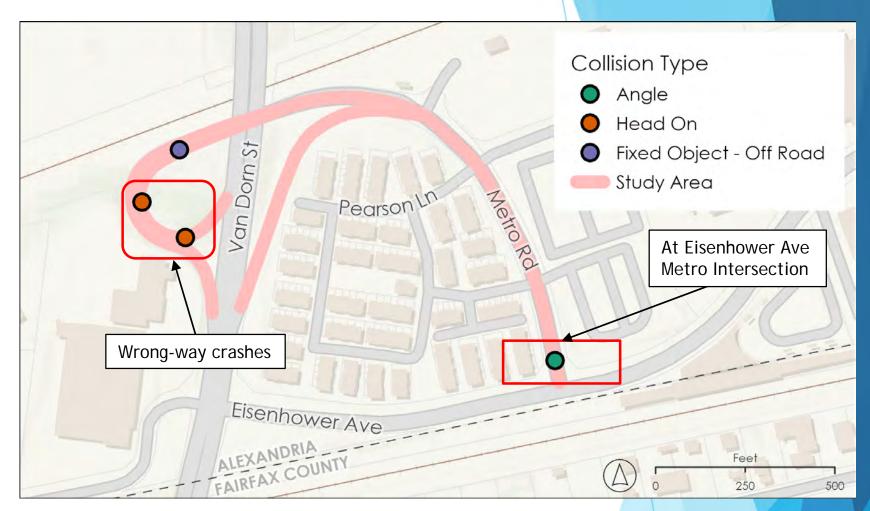




Existing Conditions

What we've found

- **80% of all Metro Road traffic** is traveling towards Eisenhower Avenue
- 20% of the current makeup of all vehicles on Metro Road are heavy vehicles.
- Poor pedestrian level of comfort due to no space between travel lanes and crossing Metro Road
- > Speeding in excess of the 25 MPH speed limit
- Wrong-way crashes within the ramp area
- Inadequate sight distance at Pearson Lane
- Red light running at Summers Grove Road and Metro Road during off-peak hours





Future Conditions

What we need to plan for

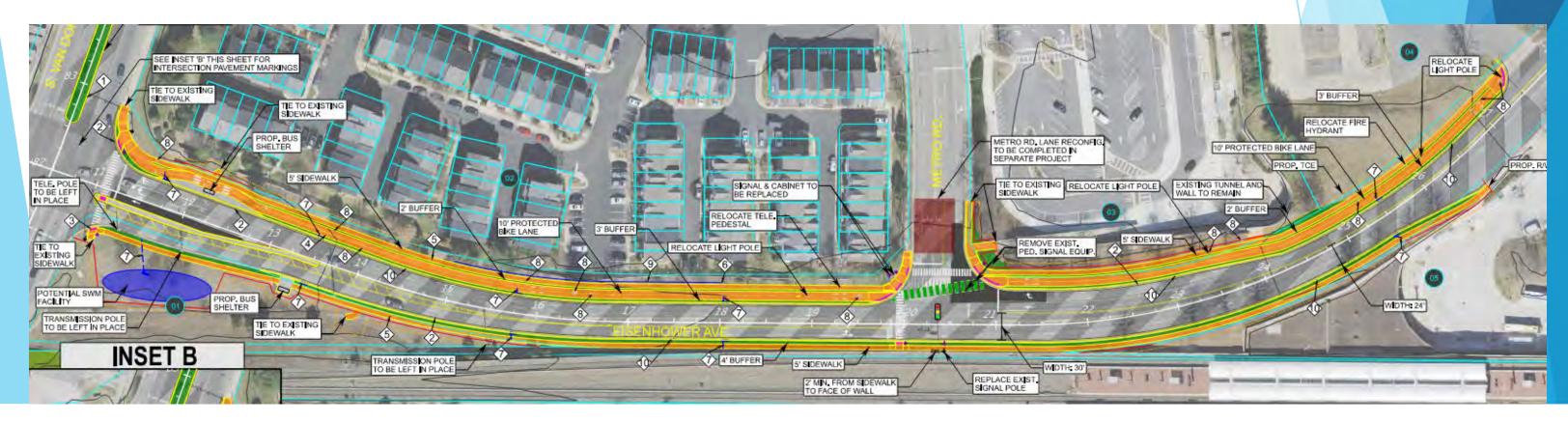
Eisenhower Ave Transportation Study – *Approved* Corridor wide improvements and left-turn re-route project

- Increases from 3,000 vehicles to 7,000 vehicles per day on Metro Road with a decrease of volume on Eisenhower Avenue.
- ▶ 60% of all Metro Road traffic would be traveling towards Eisenhower Avenue

Future Development on Eisenhower Avenue and at nearby Vulcan Site

West End Transitway – Design Underway Increased bus service





Improvements

Reducing speed and re-paving can *reduce* roadway noise

Improvements	Concern Addressed
Reconfigure lanes and provide buffers	Reduce SpeedingImproves Pedestrian SafetyImproves sight distances
Install High-Visibility Crosswalks	• Improves Pedestrian Safety
Retime traffic signals for both vehicles and pedestrians	 Reduces delay Reduce red-light running Give pedestrians longer crossing times Moving Traffic Efficiently
Speed Feedback Signs	Reduces Speeding
Install device separators (flexiposts or curbing)	Prevents wrong-way drivingPrevents illegal turnsReduce Speeding
Trim Back Vegetation Within Ramp	 Improves sight distances
Barrier Markers and New Pavement Markings	 Improves visibility and reduces wrong-way driving











Other Suggestions

What else we heard

Pearson Lane and Metro Road Traffic Signal?

- Does not meet volume or safety traffic signal warrants
- Safety & sight distance can be improved through markings, signage, or reconfiguration
- Future delay increases only slightly on Pearson Lane with no signalization

Northbound Van Dorn Street Ramp Closure? Will evaluate during the upcoming Van Dorn Street Project, issues expressed:

- High-speed approach
- Poor sight distance onto Metro Road
- Unsafe pedestrian crossings



Northbound Van Dorn Street Ramp to Metro Road



Ramp Curve Improvements

Centerline hardening via flexi-posts

- Reduce drivers going the wrong way
- Reduce the speeds on and off Van Dorn Street

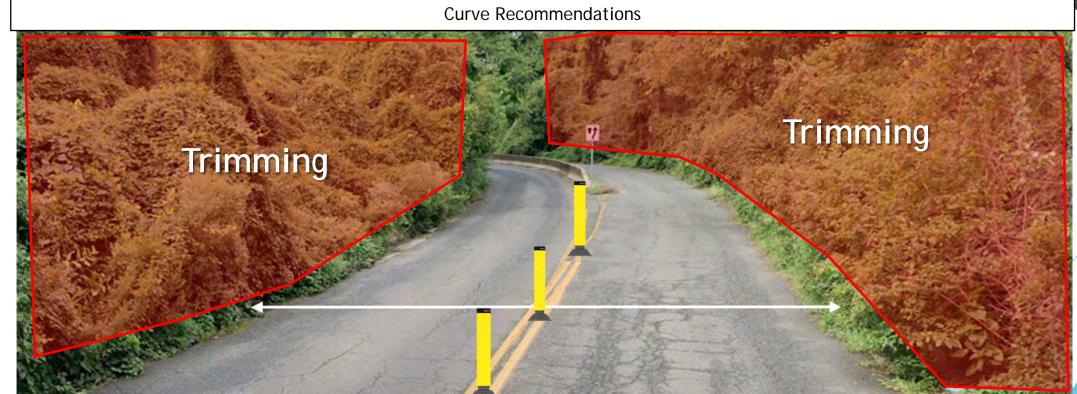
Install barrier reflectors

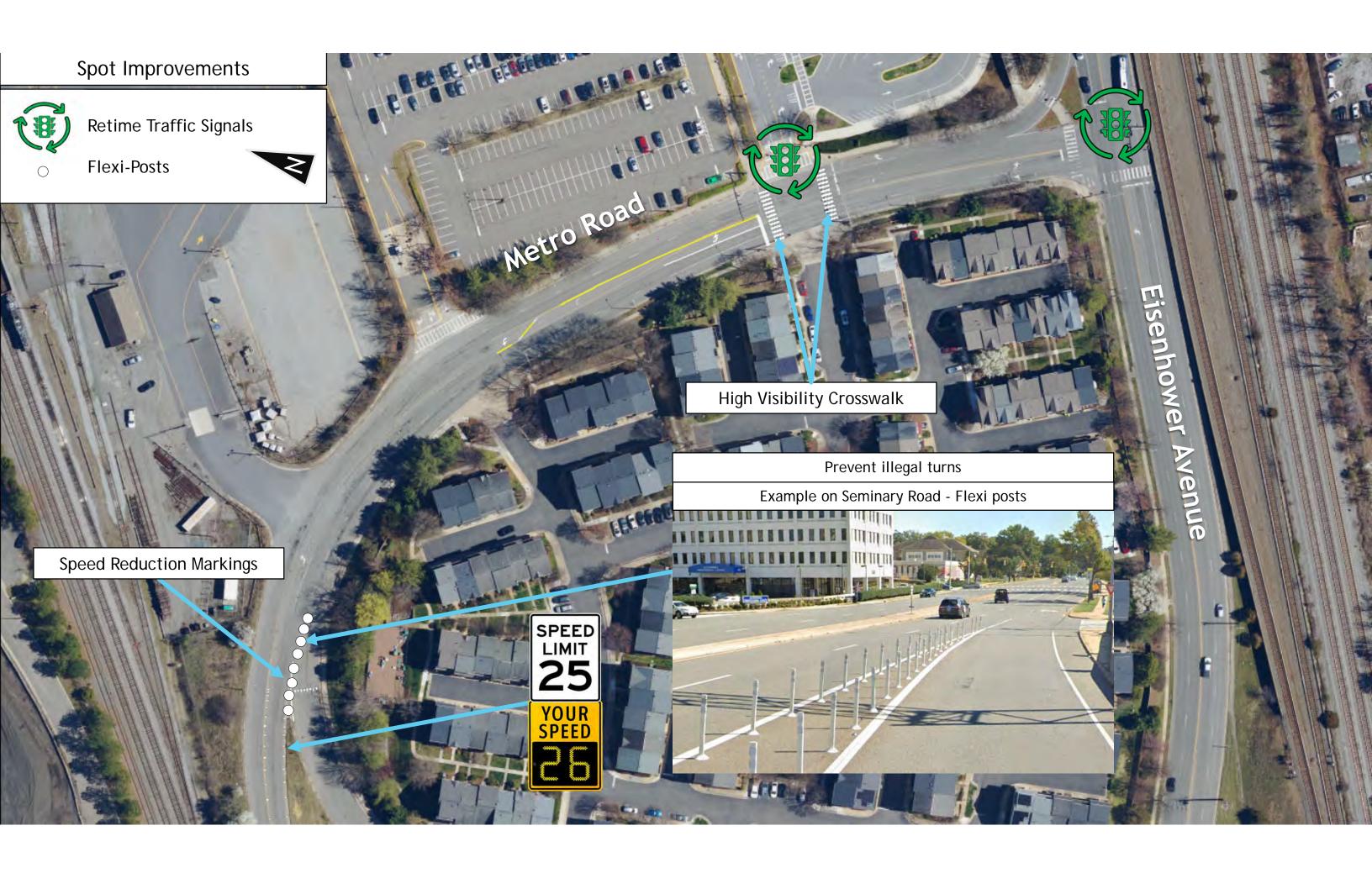
Improve visibility at night or when it rains or snows

Trim back vegetation

Improve how drivers see around curve







Metro Road Reconfiguration Options

Why? Repurpose space to improve safety, reduce speeds, and comfort for all roadway users while maintaining operations.

Both options:

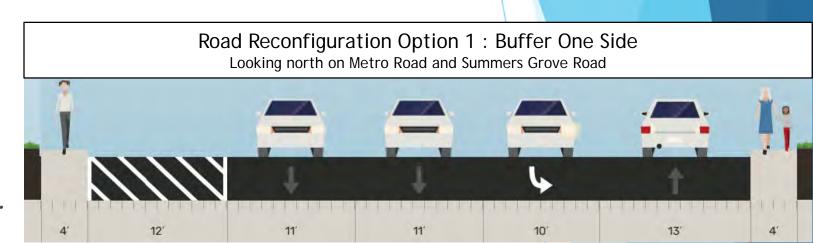
- Keeps all left-turn lanes as it is today.
- Keeps two southbound travel lanes from Pearson Lane to Eisenhower Avenue
- Average ±10 second time difference between today and future.
- No substantial back-ups on Metro Road.

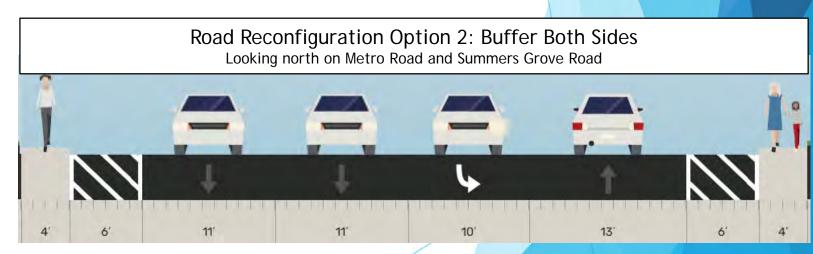
Option 1: Buffer West Side

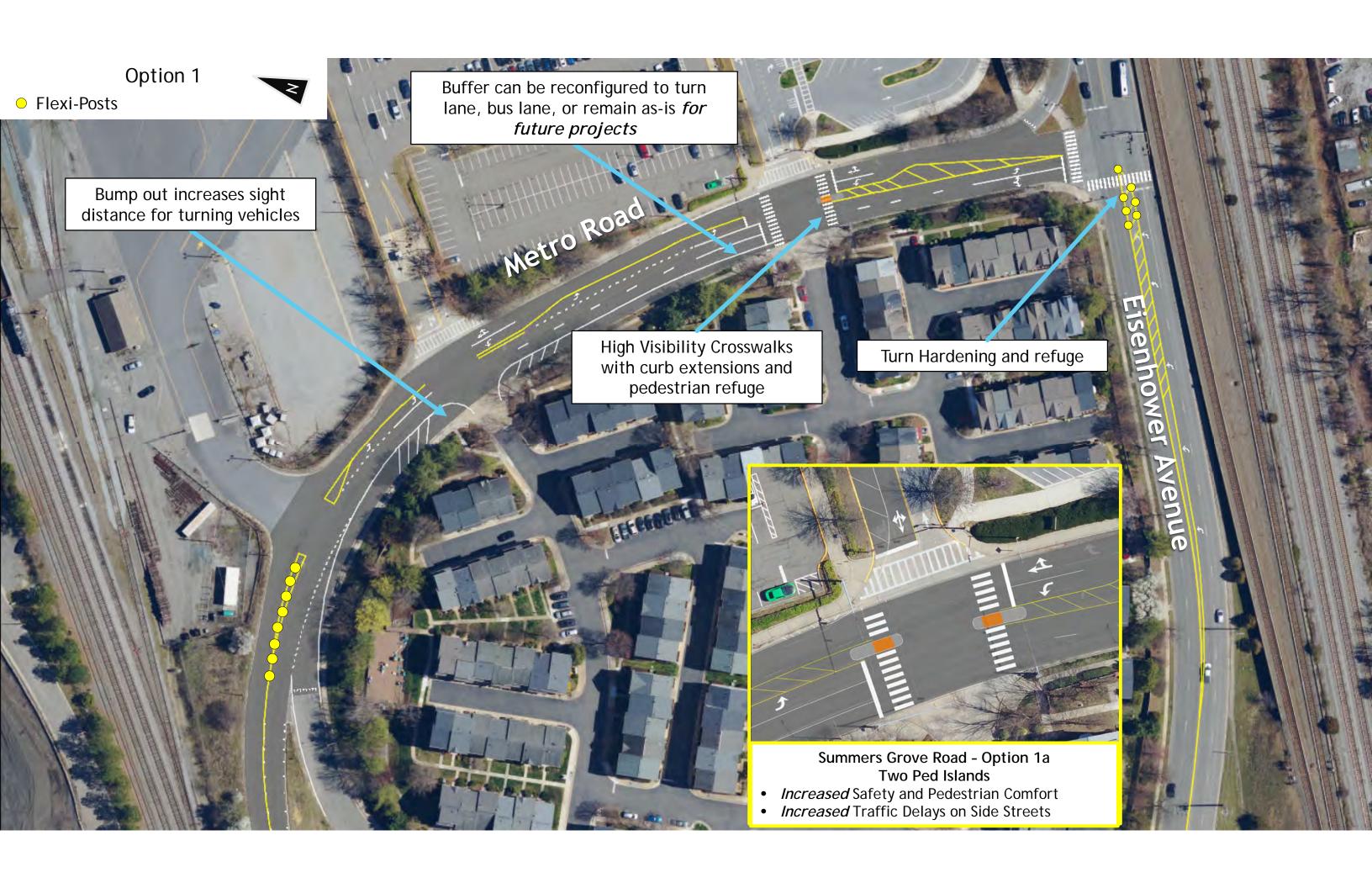
- Increases buffer between Summers Grove residences and travel lane
- Can reduce speeds entering Metro Road from Van Dorn Street
- Buffer could be repurposed in the future

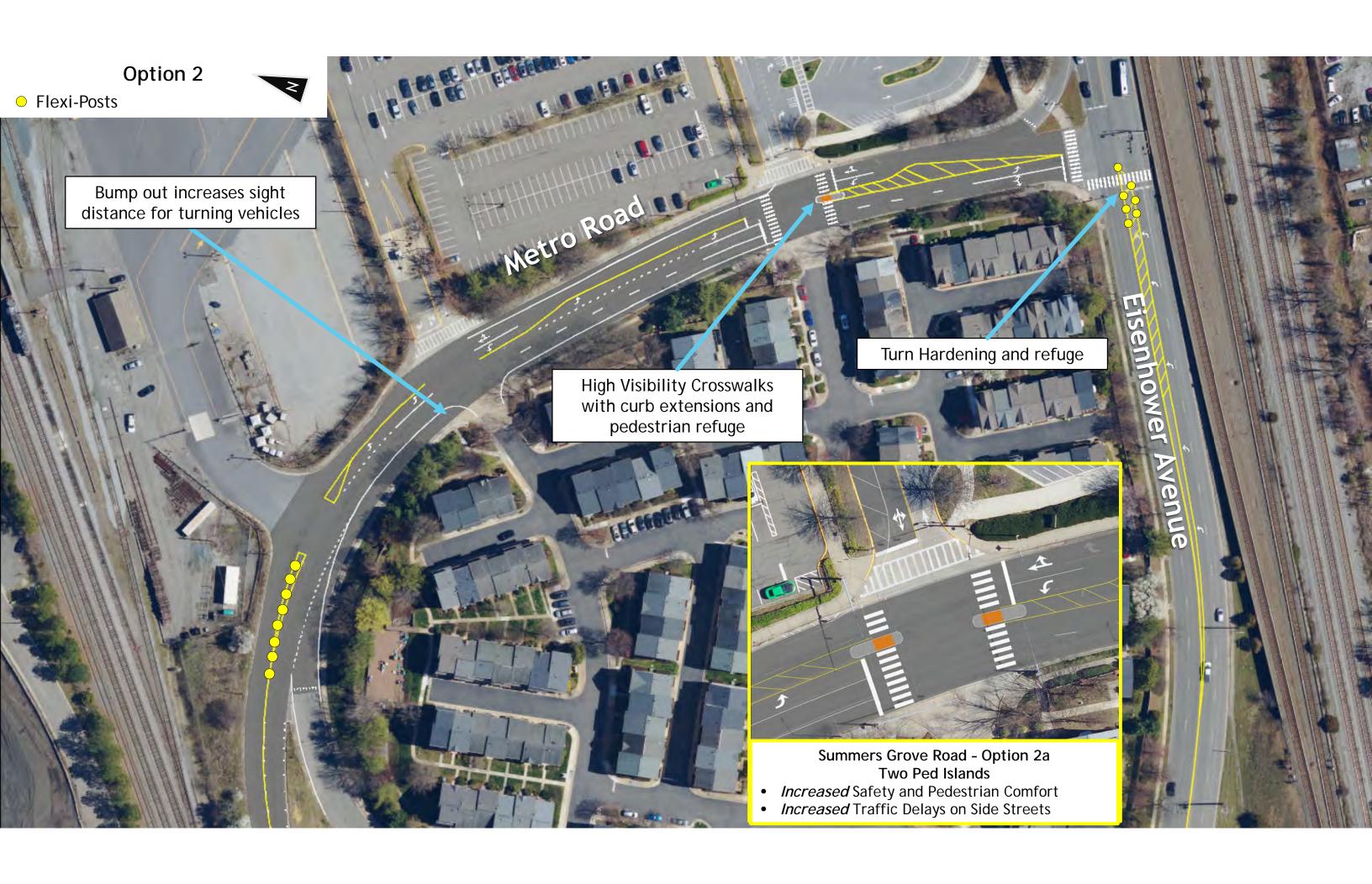
Option 2: Buffer Both Sides

- Increases comfort and safety for pedestrians on both sides
- Can reduce speeds entering Metro Road from ramp area or from Eisenhower Avenue









One-Lane between Pearson Lane and Summers Grove

Exploring other ideas

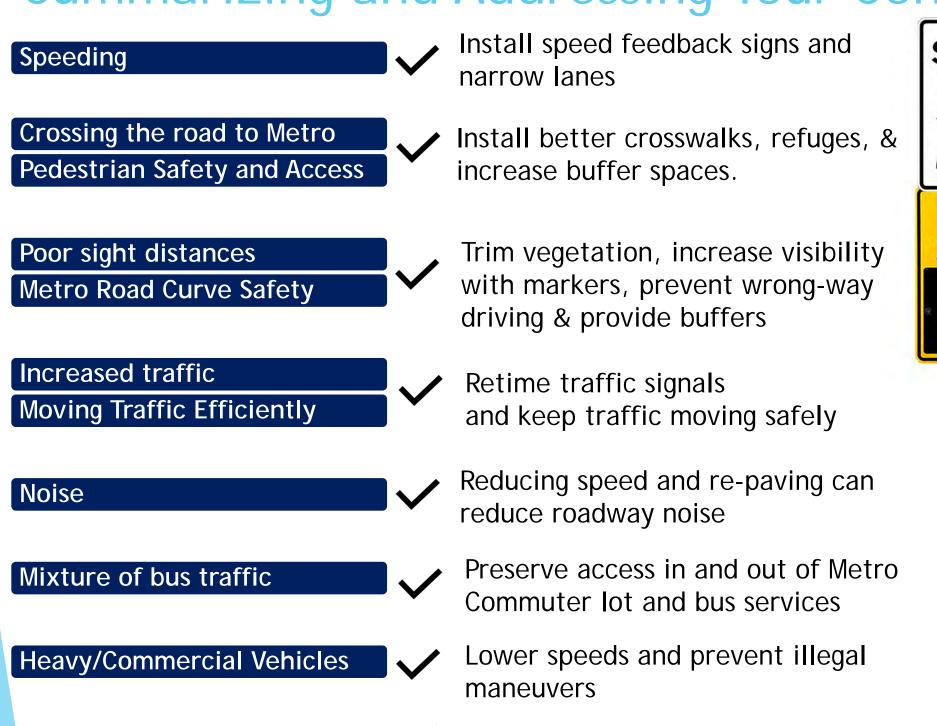
Why? Further reduces southbound speeds, less lanes for all users to cross, and better opportunities for pedestrian crossings.

Estimate to increase delays by an **average ±15 seconds** between today and in the future with **noticeable southbound queueing** on Metro Road between Pearson Lane and Summers Grove.



Summarizing and Addressing Your Concerns

Repave and restripe the road



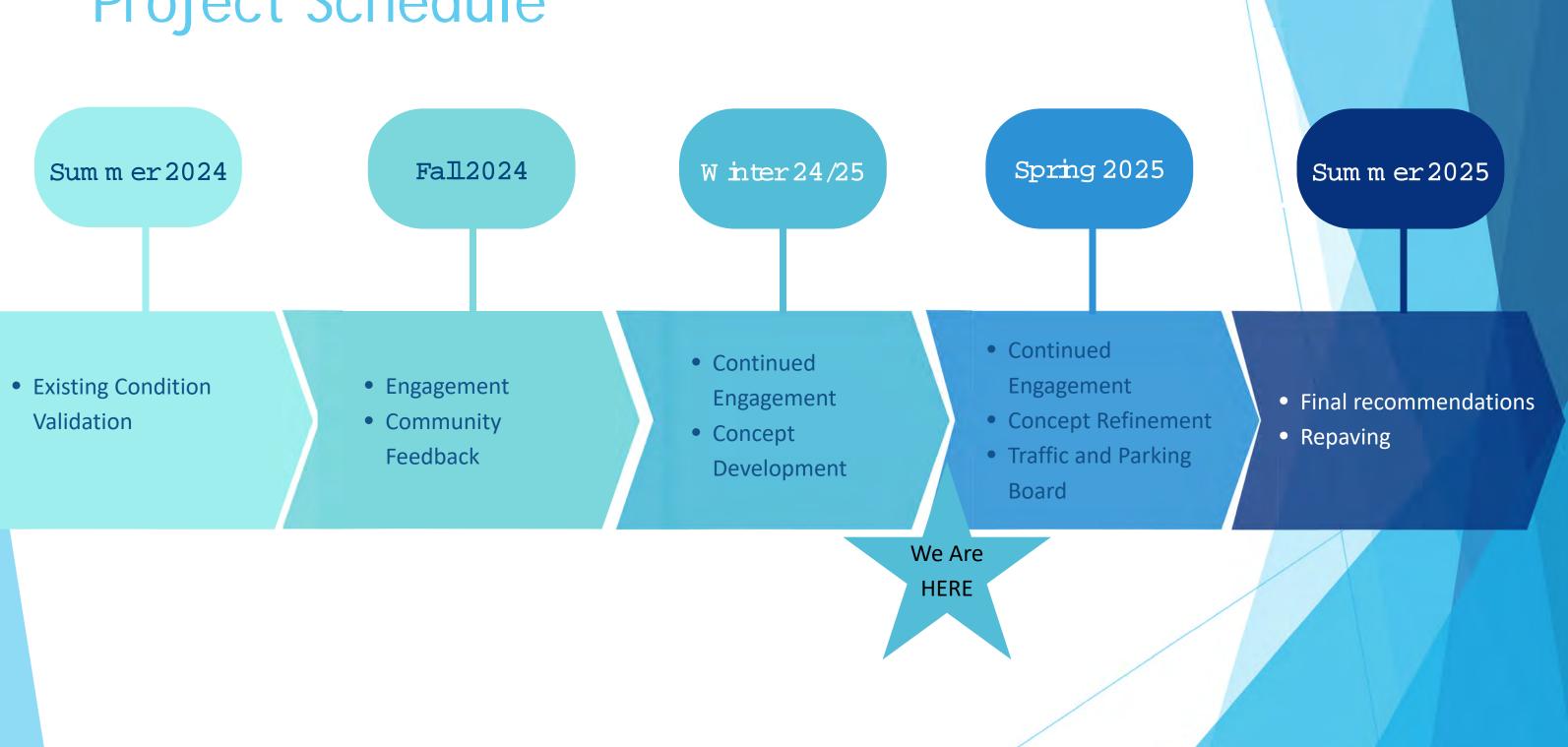
Pavement Conditions

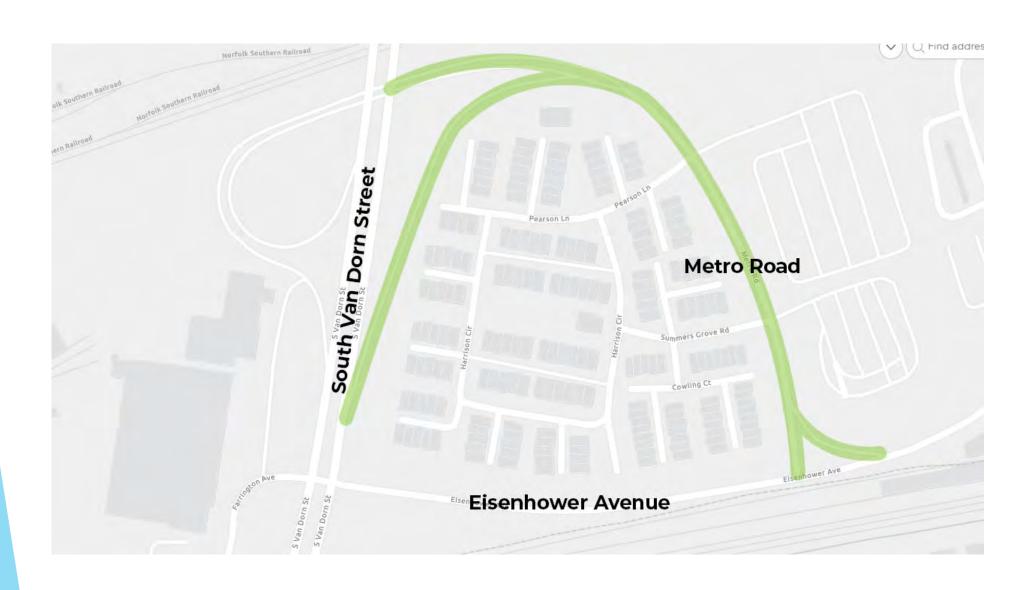






Project Schedule





Contact & Project Information



https://www.alexandriava.gov/transportation-planning/project/metroroad-improvements



Questions?

