King Street-

Bradlee Safety &

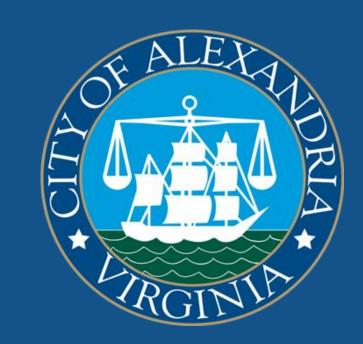
Mobility

Enhancements

City of Alexandria

Department of Transportation & Environmental Services

May 16, 2024 Virtual Meeting



Agenda



Project Background

Project Goals

Community Engagement

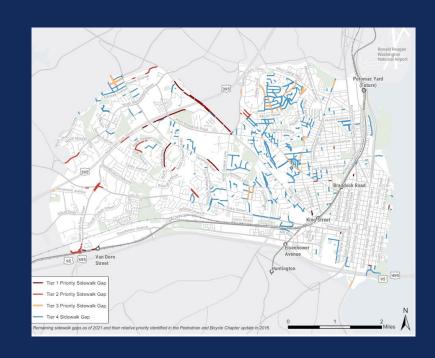
Preferred Concept

Alternatives Analysis

Interim Improvements

Upcoming Activity

Project Background



2016

Pedestrian & Bicycle Chapter of
Transportation Master Plan.
Identifies study area as priority
sidewalk & bicycle gap location
in the City.



2021

2021 Alexandria Mobility Plan reaffirms study area as priority sidewalk & bicycle gap location in the City.



2022

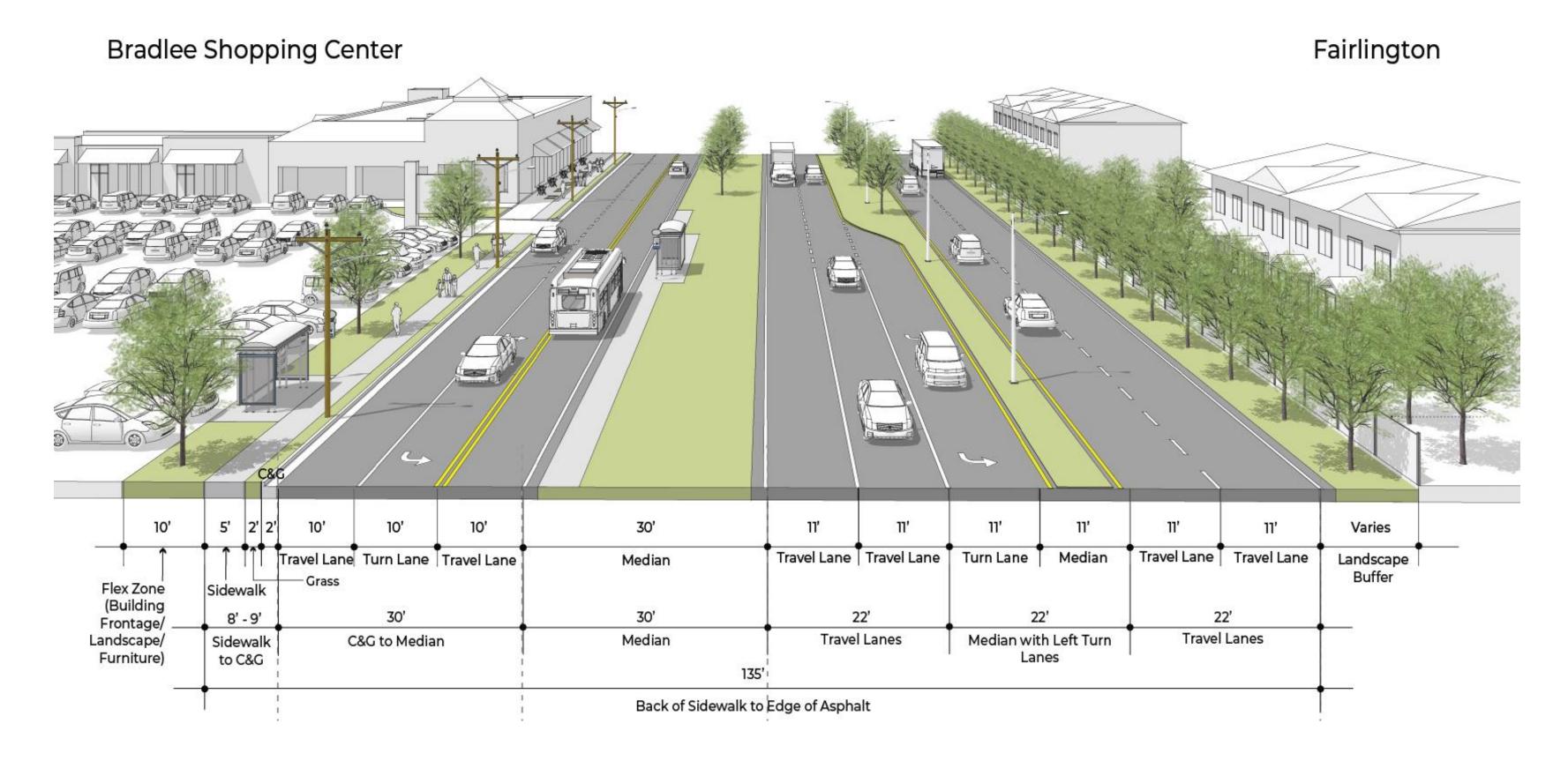
Citywide Crash Analysis identifies the study area as a street within the city's High Injury Network.

36TH STS 35TH ST S **Arlington County** City of Alexandria CENTRE PLZ N EARLY ST KELLER AVE BRADLEE SHOPPING CENTER OSAGE ST KENWOOD AVE W BRADDOCK RD

Project Location



Existing Cross-Section



Project Goals

Improve mobility, safety, and access for all roadway users of all ages, abilities and modes of travel.

Install safer pedestrian access and bicycle facilities to connect to surrounding network.

Maintain or enhance existing transit facilities.

Improve existing stormwater treatment.









Community Engagement

2 Feedback Forms

Over 1,000 interactions



In Person Events

Pop-Ups, Community Festival & Bus Stop chats

8 Staff Presentations

Meetings with HOA & Civic Associations

Digital Engagement

Social Media Posts, direct email notifications, website updates

Project Timeline

We Are HERE



Project Initiation

Data GatheringStaff Analysis

Issue
Identification

Phase 1communityengagementDesign TeamHiredData Analysis

Concept Development

Initial ConceptDevelopmentPhase 2 communityengagementData Analysis

Concept Refinement

Continued AnalysisPhase 3 communityengagementConcept Selection

Short-TermImprovements

Seek Construction Funding

Identifyapplicablefunding sourcesand prepareapplications

Summer 2023

Fall 2023

Winter 2024

Spring 2024

Summer 2024

Community Priorities

Most frequently mentioned items



More trees and shade

327 mentions

Wider sidewalk space separated from vehicles

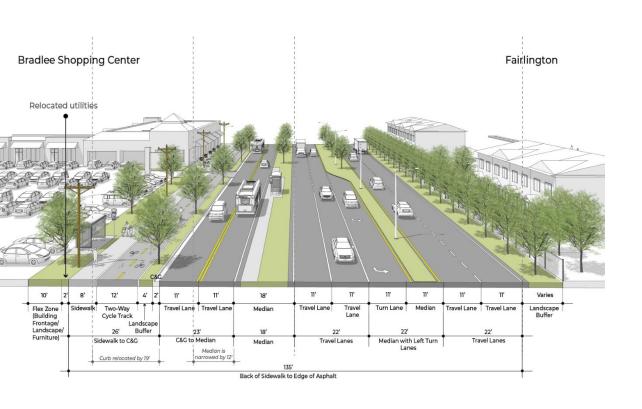
236 mentions

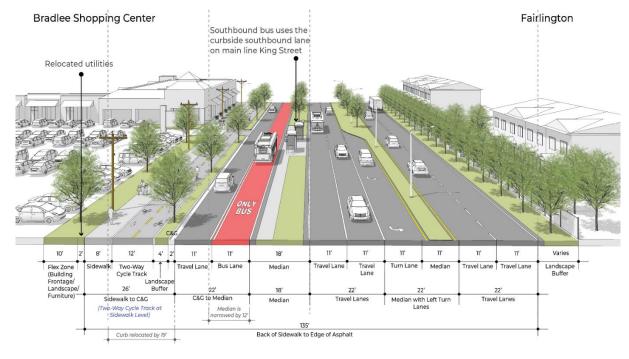
Stormwater treatment

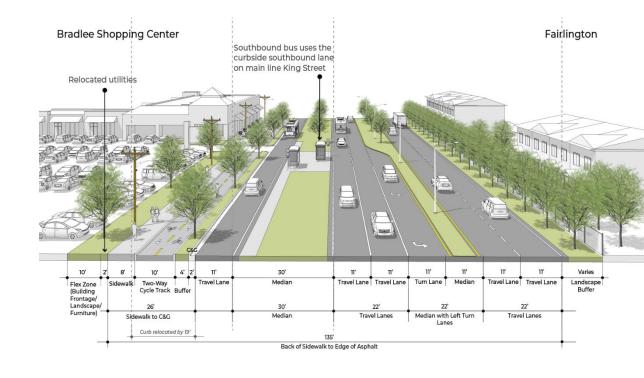
173 mentions

Space for larger bus shelters and stops 161 mentions

Alternative Concepts







Alternative 1

Two-Way Traffic with Transit

Alternative 2

One-Way Traffic & Bus Lane

Alternative 3

One-Way Shared Traffic



Alternative eliminated based on feedback from public engagement

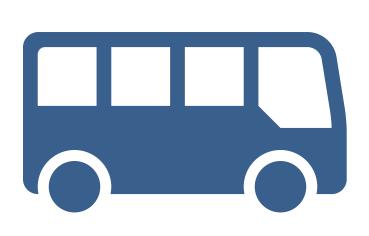
Alternatives Analysis



Traffic Delay



Safety



Transit



Selecting The Preferred Alternative

Metric	Alternative 1	Alternative 2
Traffic Delay	Equal	Benefit
Safety	Similar	r Benefit 🗼 🕂
Transit	prevent being stu	benefit to ouses from uck behind e access road
Bicycle Facilities	Equal	Benefit

Alternative 1:Two-Way Traffic with Transit



Alternative 2:One-Way Traffic with Transit and Bus



Menokin Dr

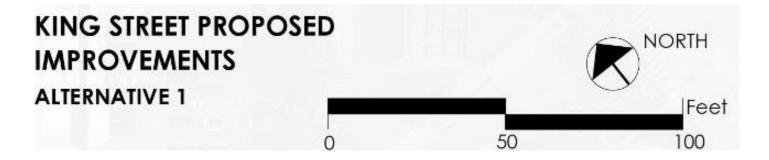
N. Dearing St

Taylor Street

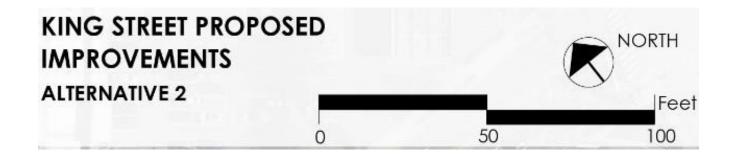
N. Quaker Ln



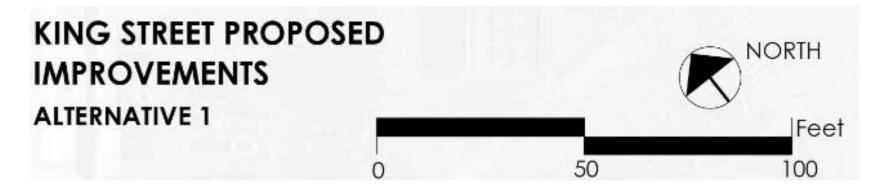


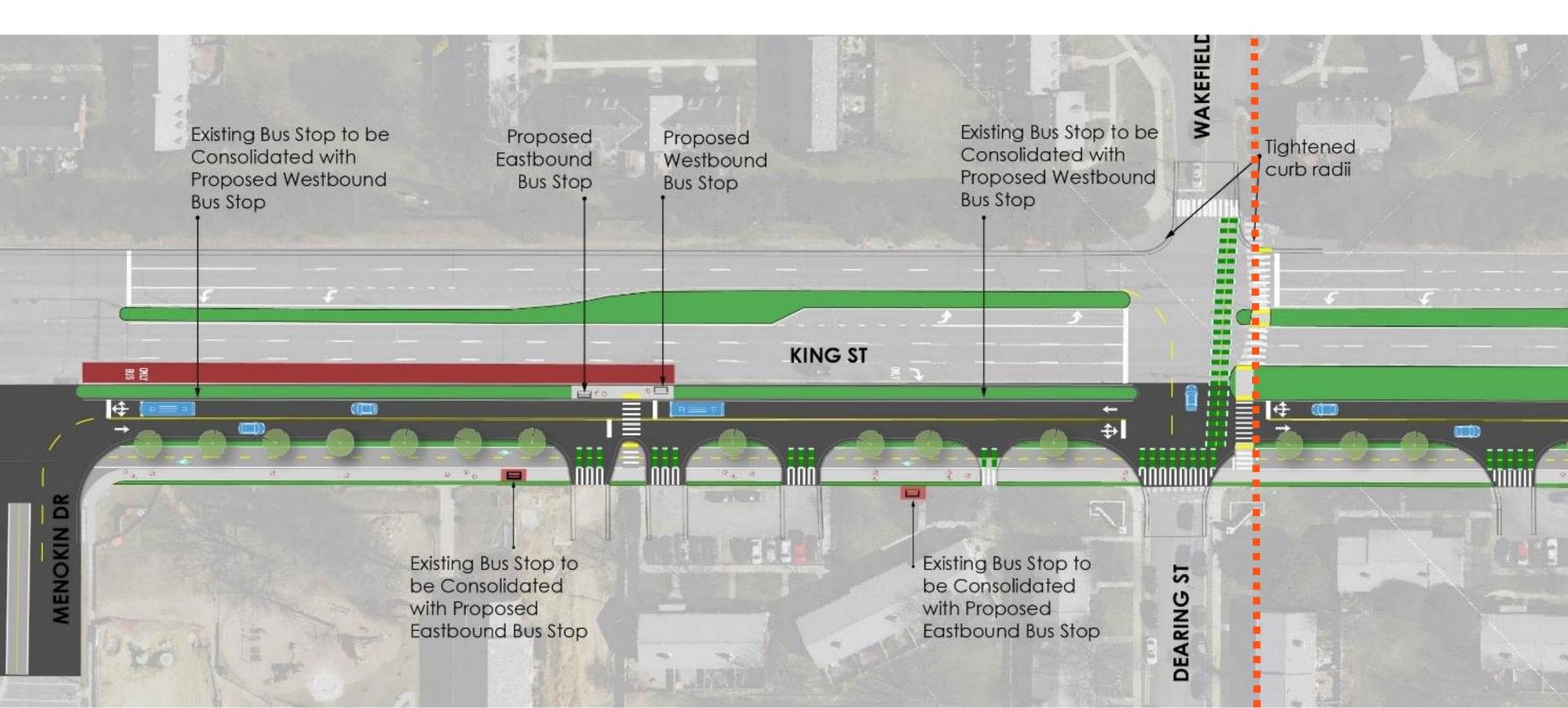


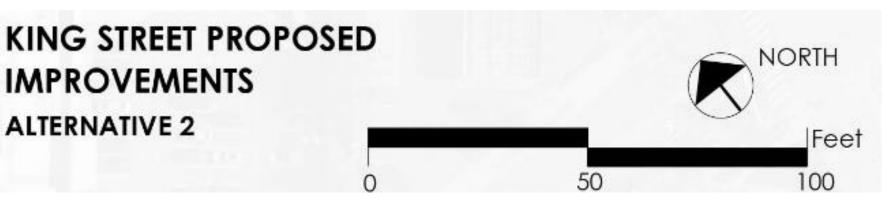


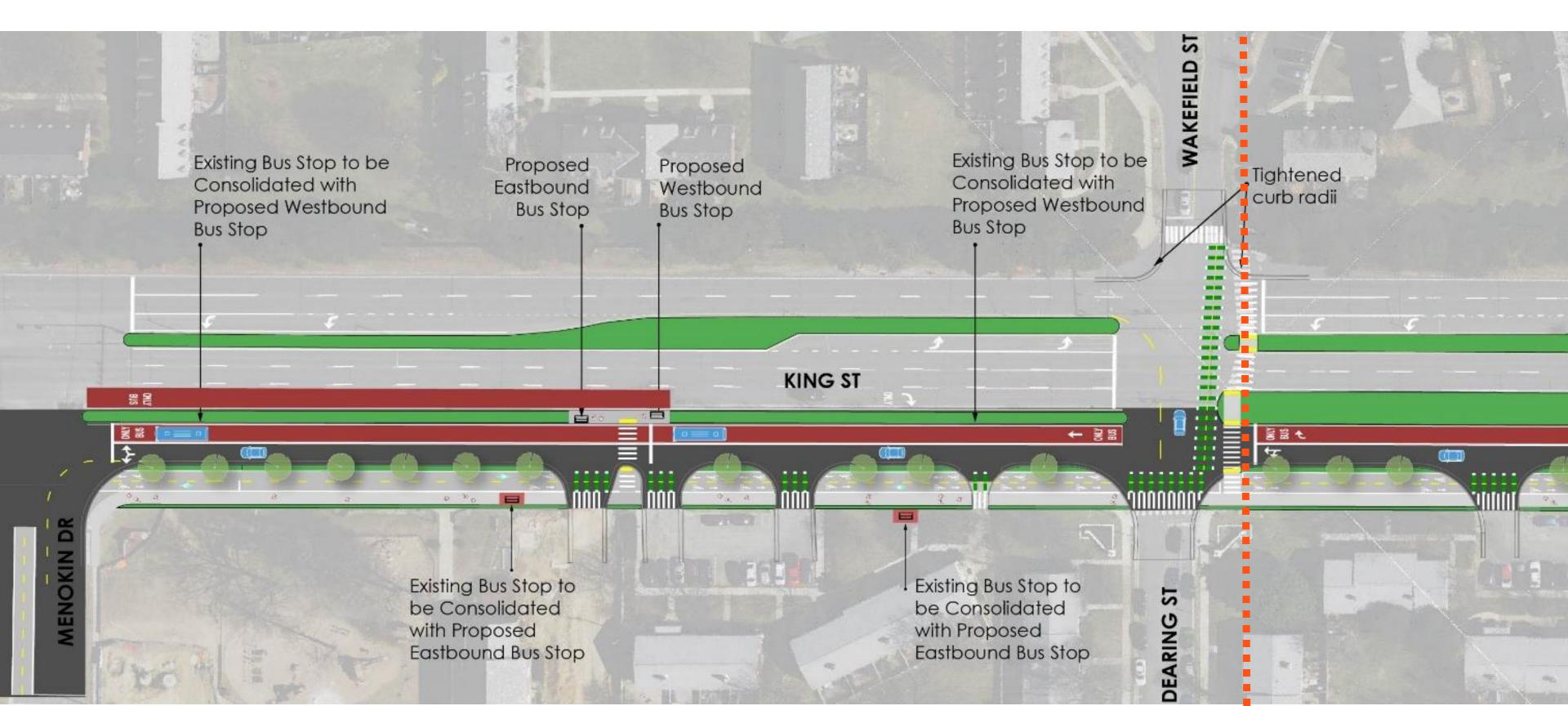












Access Road looking West near the McDonald's Driveway





From King Street, Looking at North Dearing Street





Additional Treatments



Stormwater Treatment



Signal Timing Adjustments



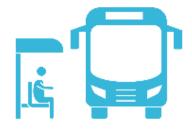
Transit Signal Priority



Leading
Pedestrian
Intervals



Hardening Pedestrian Refuges



Consolidated & Enhanced Bus Shelters



Pedestrian Lighting



Increased Canopy
Cover Over
Sidewalk and Cycle
Track



Protected Cycle Track and Sidewalk



Dedicated Bicycle Crosswalk Across King Street

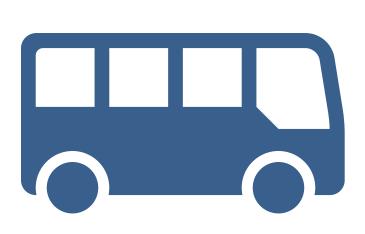
Alternatives Analysis



Traffic Delay

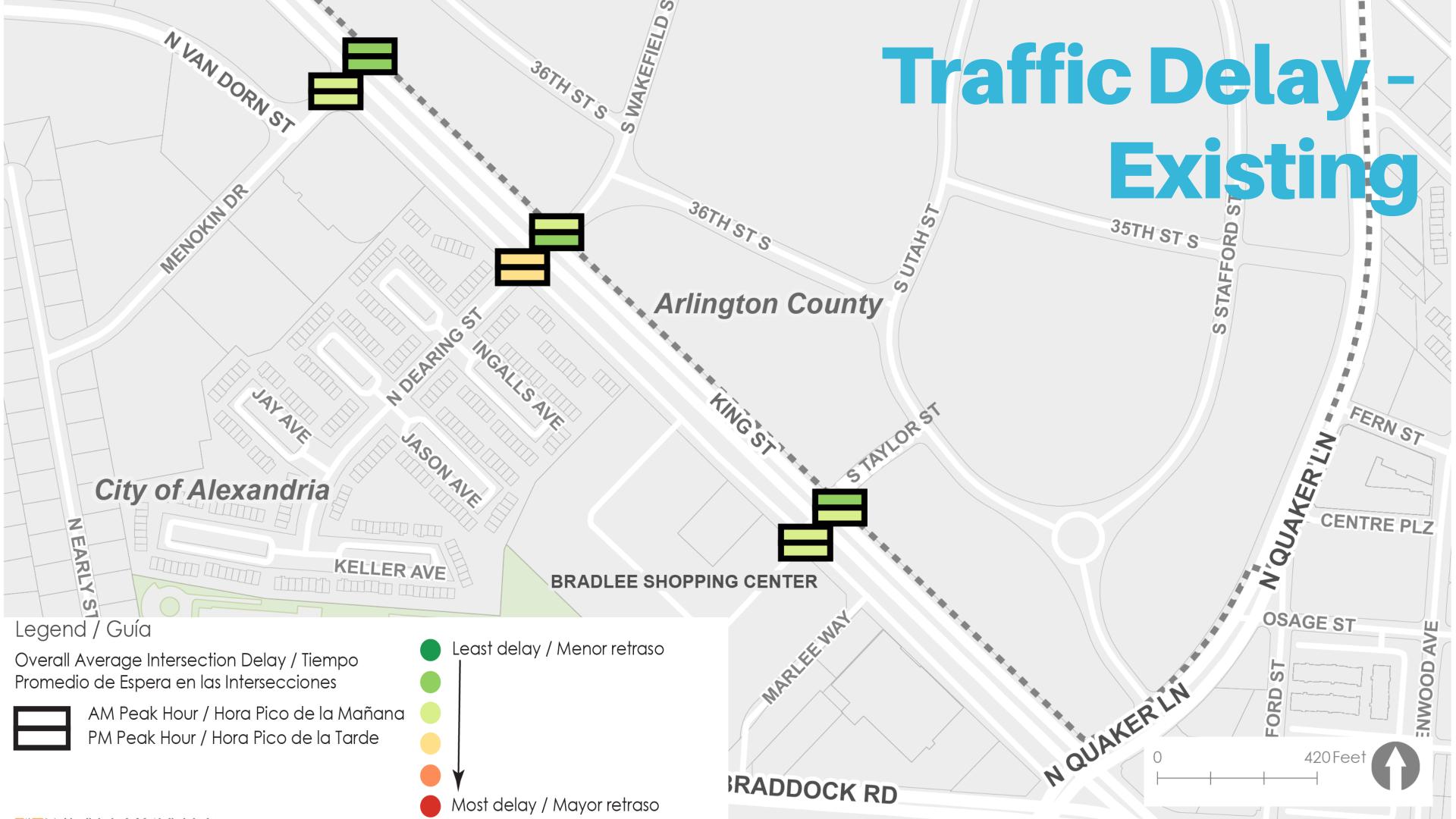


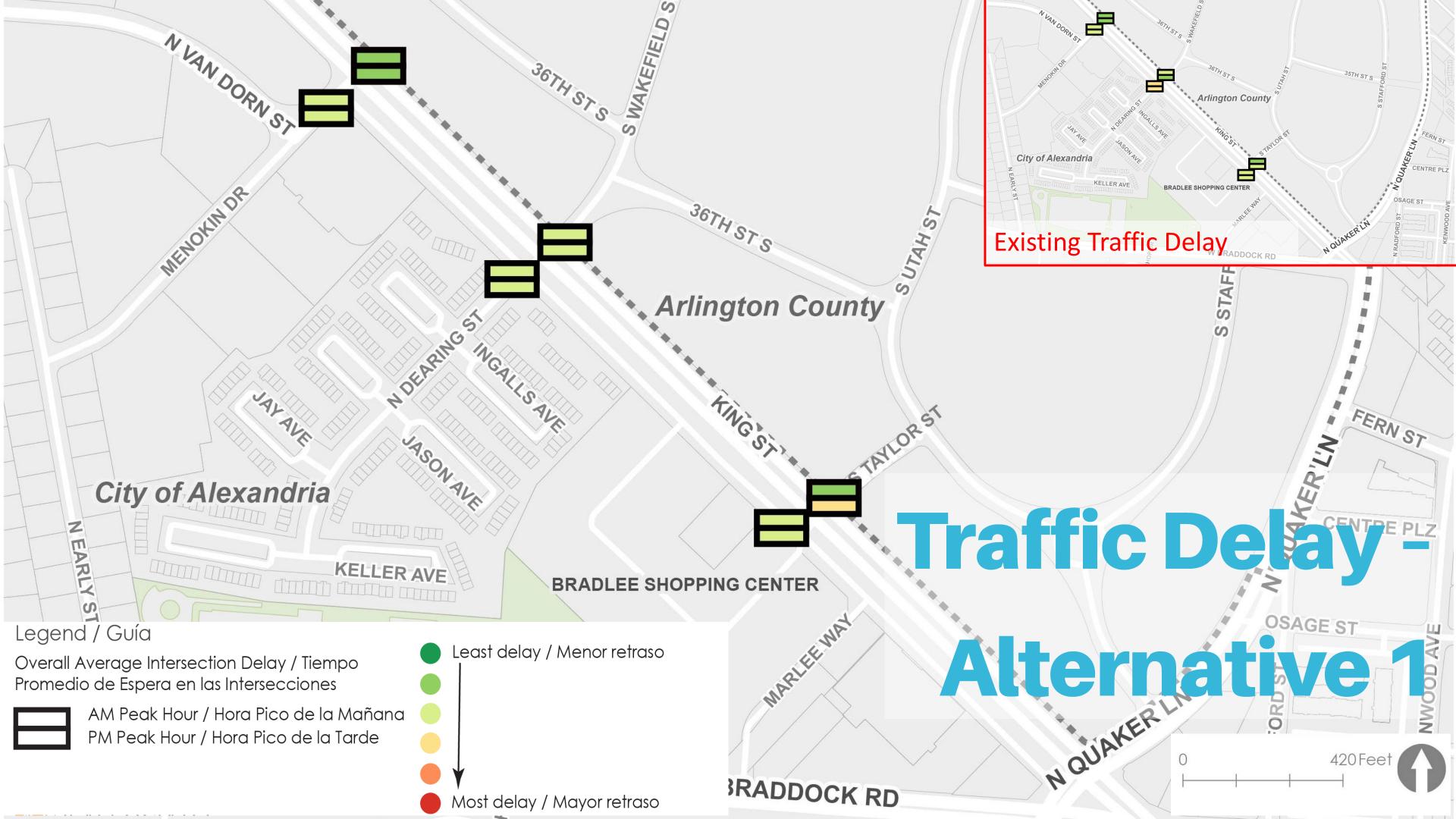
Safety

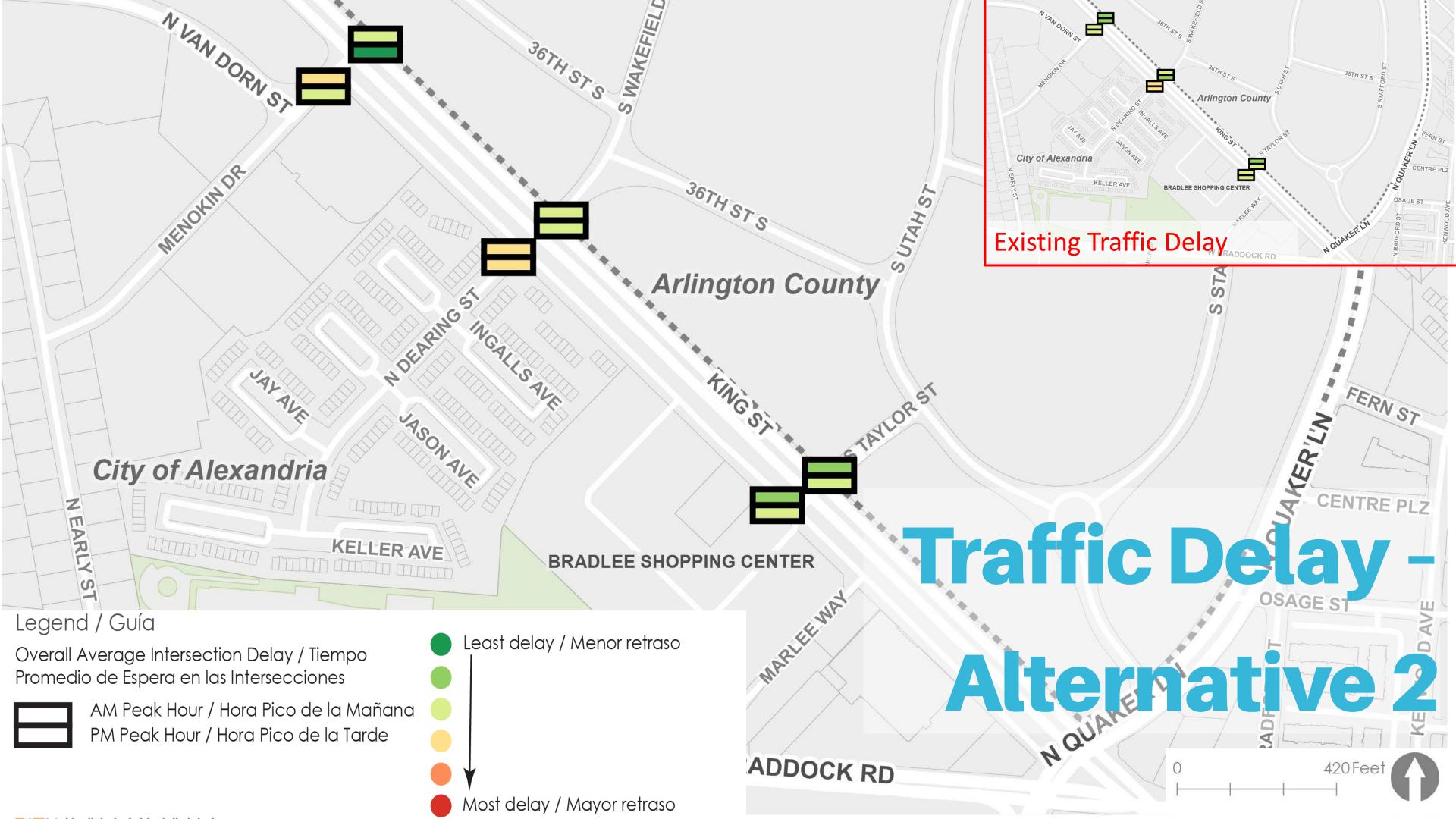


Transit









Safety - Crash Reduction Factors



Median Pedestrian Islands



Crosswalk Lighting



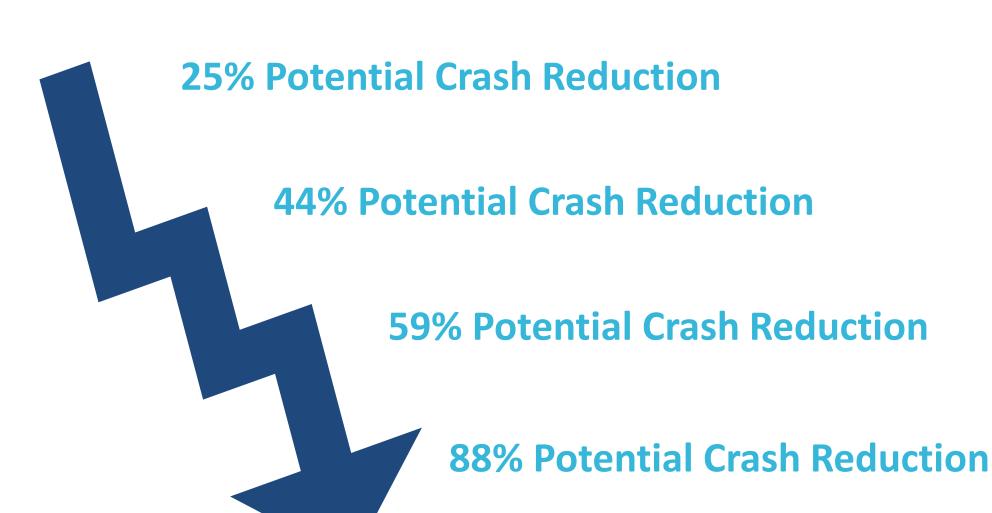
Leading Pedestrian Intervals



Add or Upgrade Sidewalk

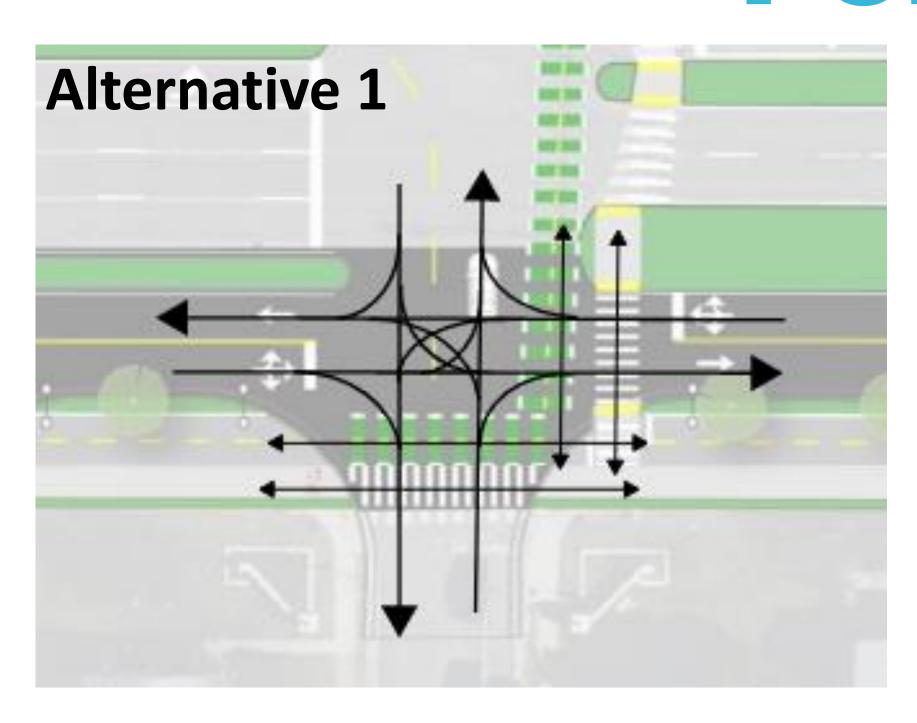


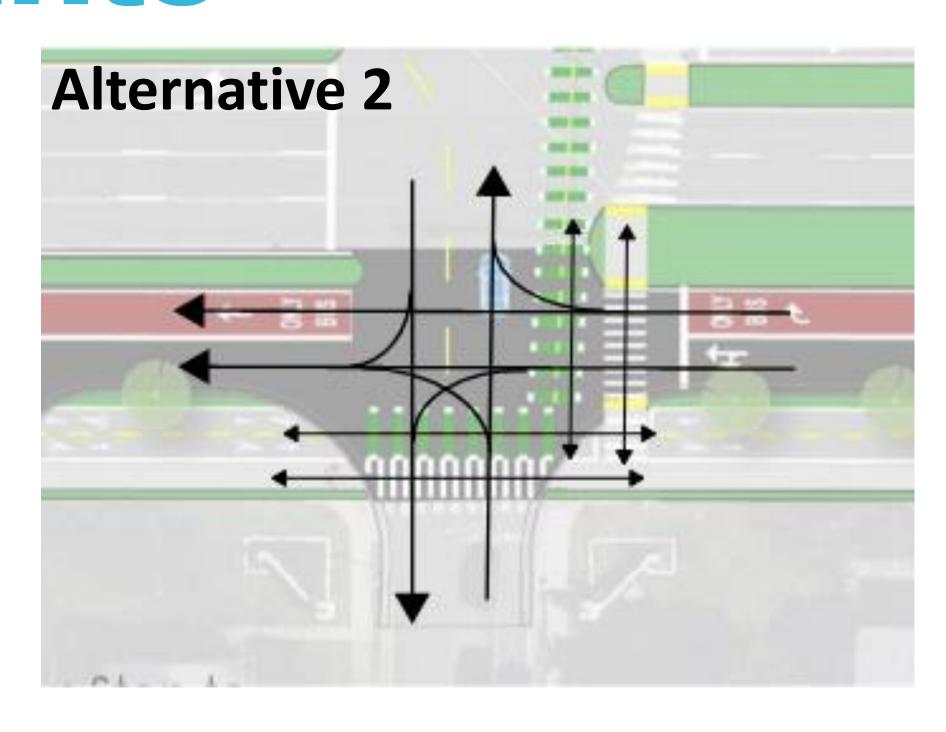
New Signal Phasing



96% Potential Crash Reduction

Safety - Potential Conflict Points





Transit - Bus Delay Due to Vehicles

PM Peak Traffic

Conditions



Existing Conditions



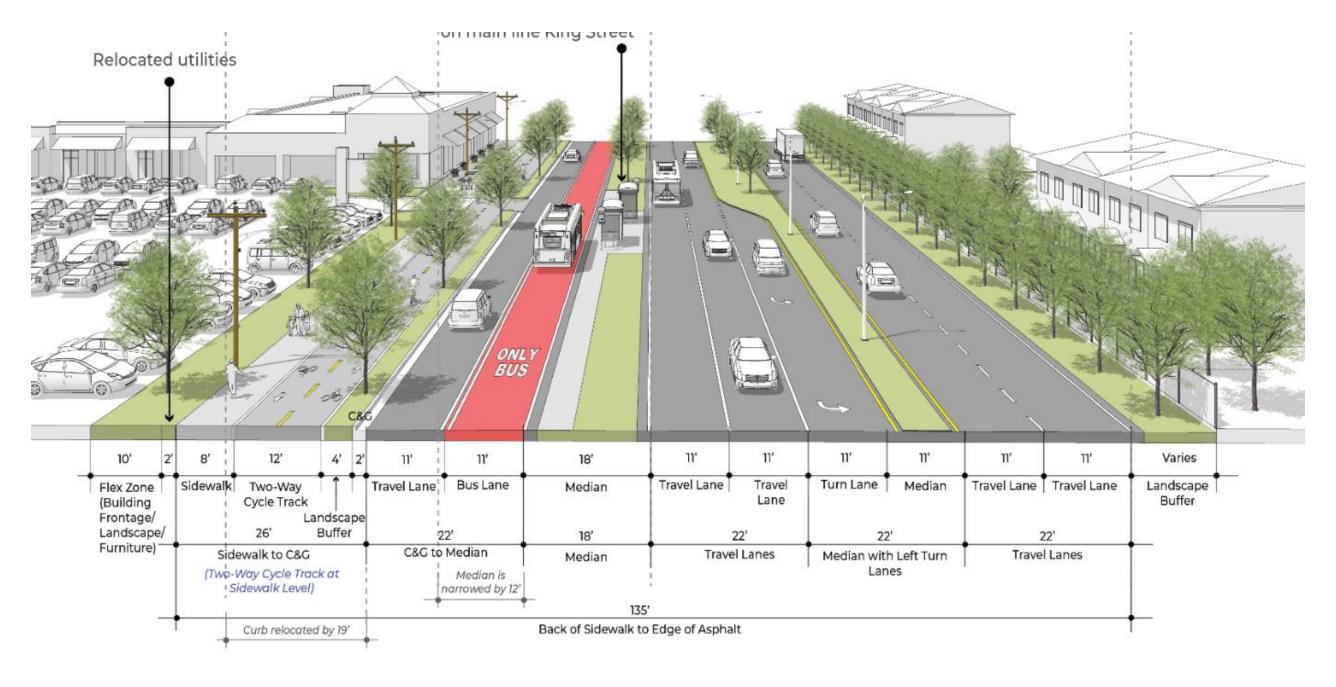
Alternative 1





Alternative 2: One-Way

Traffic & Bus Lane



Interim Improvements Toolbox



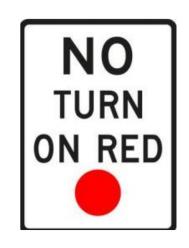
Tree Plantings



Curb Radii Tightening



Signal Timing Adjustments



No Turn On Red Signs



Bicycle Wayfinding Signs



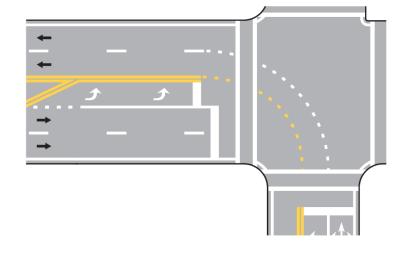
Sharrows



Speed **Feedback** Signs



Pedestrian Refuge Islands With Flex Posts



Intersection Lane Markings

Upcoming Activity

Interim Design

Summer: Hire design team for interim improvements and identify funding

City Council Fall 2024

Traffic & Parking Board
June 2024

Seeking Funding

Summer: Identify and seek funding sources for long term improvements



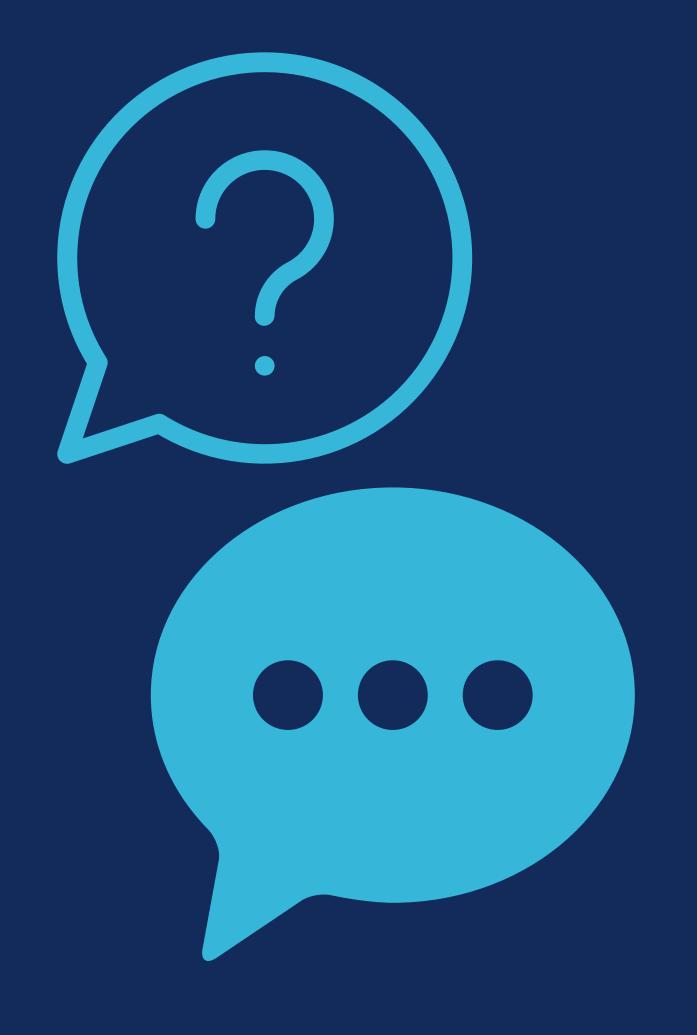


Visit the shared project website at:

www.alexandriava.gov/go/4769



Sign up to receive email updates for the project - link on the project website.



Questions & Comments

Sara Brandt-Vorel

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