



Pedestrian and Bicycle Master Plan Update

City Council

April 16, 2016

Primary Project Objectives

- Update Pedestrian and Bicycle section of Transportation Master Plan
 - Improve safety for pedestrians and bicyclists
 - Provides priorities and focus
 - Similar to Transit Chapter of Transportation Master Plan
 - After plan adoption, second phase of detailed design and analysis, and public outreach to occur with projects
- Develop Complete Streets Design Guidelines
 - Design guidance for staff, developers, and community

Council Role

- Receive update on the draft Pedestrian and Bicycle Master Plan
- Hold a public hearing on the Pedestrian and Bicycle Master Plan and Master Plan Amendment
- Approve amendment to the Transportation Master Plan chapter of the Alexandria Master Plan, to replace the Pedestrian and Bicycle sections of the Transportation Master Plan

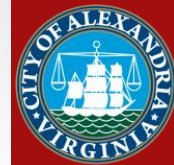
Civic Engagement



Pedestrian and Bicycle Master Plan

- Introduction
- Walking in Alexandria
- Bicycling in Alexandria
- Implementation
- Appendices
 - Civic Engagement Plan
 - Civic Engagement Summary
 - Progress Report
 - Case Study Areas
 - Funding Sources
 - Methodology
 - Prioritization Results

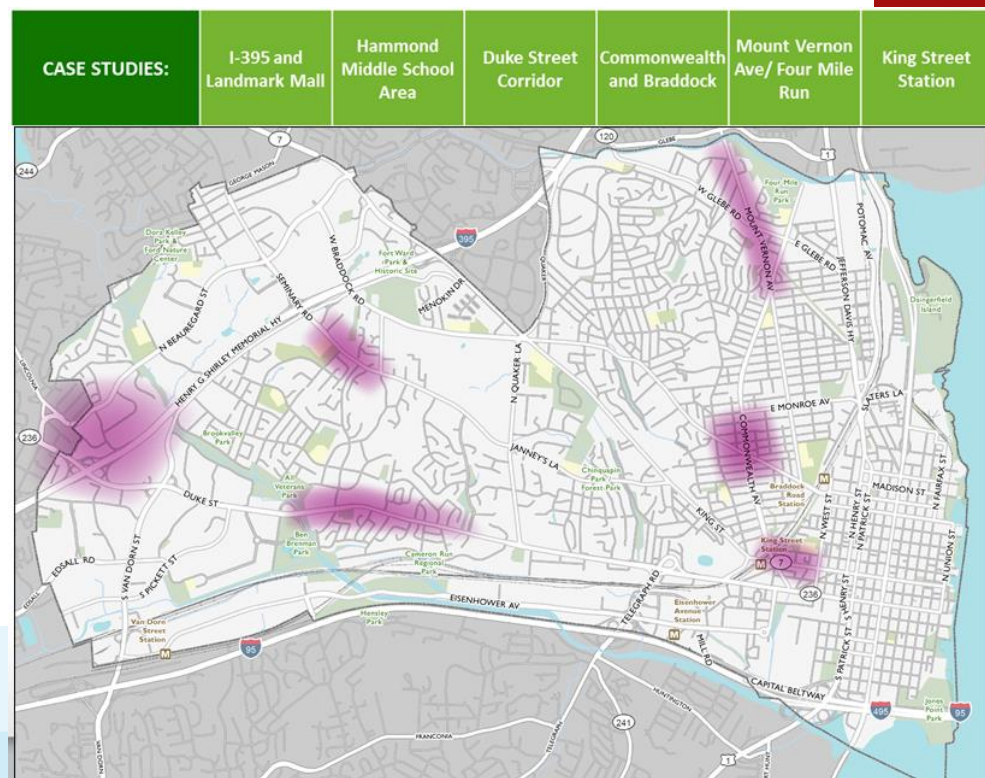
SUMMARY - Pedestrian Recommendations



Over 500 Facility Recommendations in Six Study Areas

Ten prioritized new sidewalk projects distributed throughout the City

- Nearly 4 miles of new priority sidewalks



Key Pedestrian Strategies

Engineering Strategies

- Apply the Complete Streets Design Guidelines for all new development and future capital improvement projects.
- Close sidewalk gaps and improve sidewalks where needed.
- Prioritize and standardize curb ramp upgrades and other ADA improvements.
- Reduce conflicts between bikes and pedestrians on sidewalks
- Maintenance and snow removal of pedestrian facilities

Program / Policy Strategies

- Conduct evaluation of traffic fatalities and develop a Vision Zero Program
- Pursue funding to oversee education and outreach for pedestrian safety
- Pursue funding for high priority pedestrian projects
- Partnerships with Health Department and Schools

SUMMARY - Bicycle Recommendations

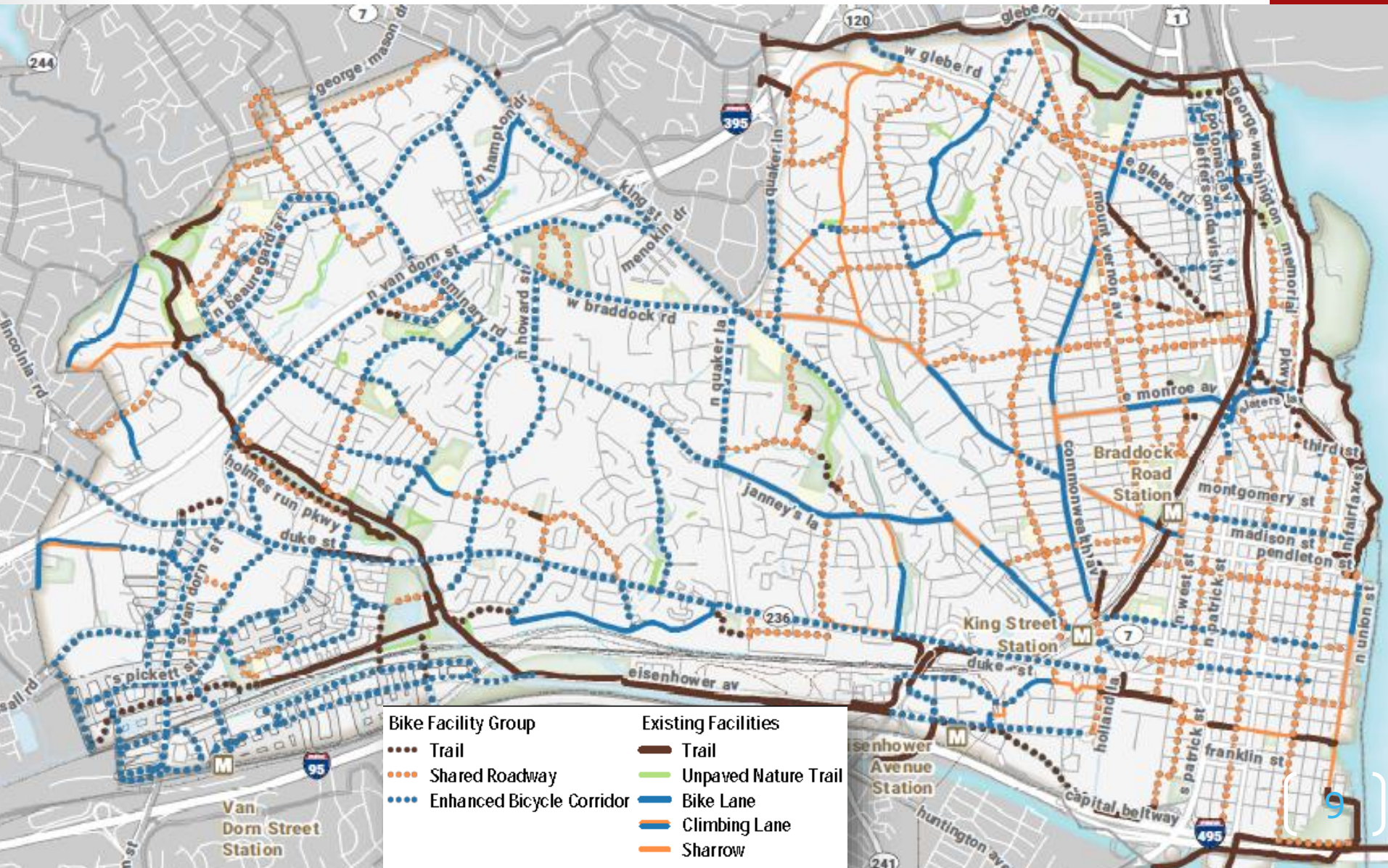
Over 88 miles of NEW Bicycle Facilities

- 44 miles of Enhanced Bicycle Corridors
- 36 miles of Shared Roadways
- 8 miles of New Trails

Continuous Connections to Major Destinations

- Mark Center
- Potomac Yard
- Mount Vernon Trail
- Old Town
- Van Dorn/ Eisenhower Metro
- Landmark Mall
- Beauregard / West End
- Shirlington

Proposed Bicycle Network



Key Bicycle Strategies

Engineering Strategies

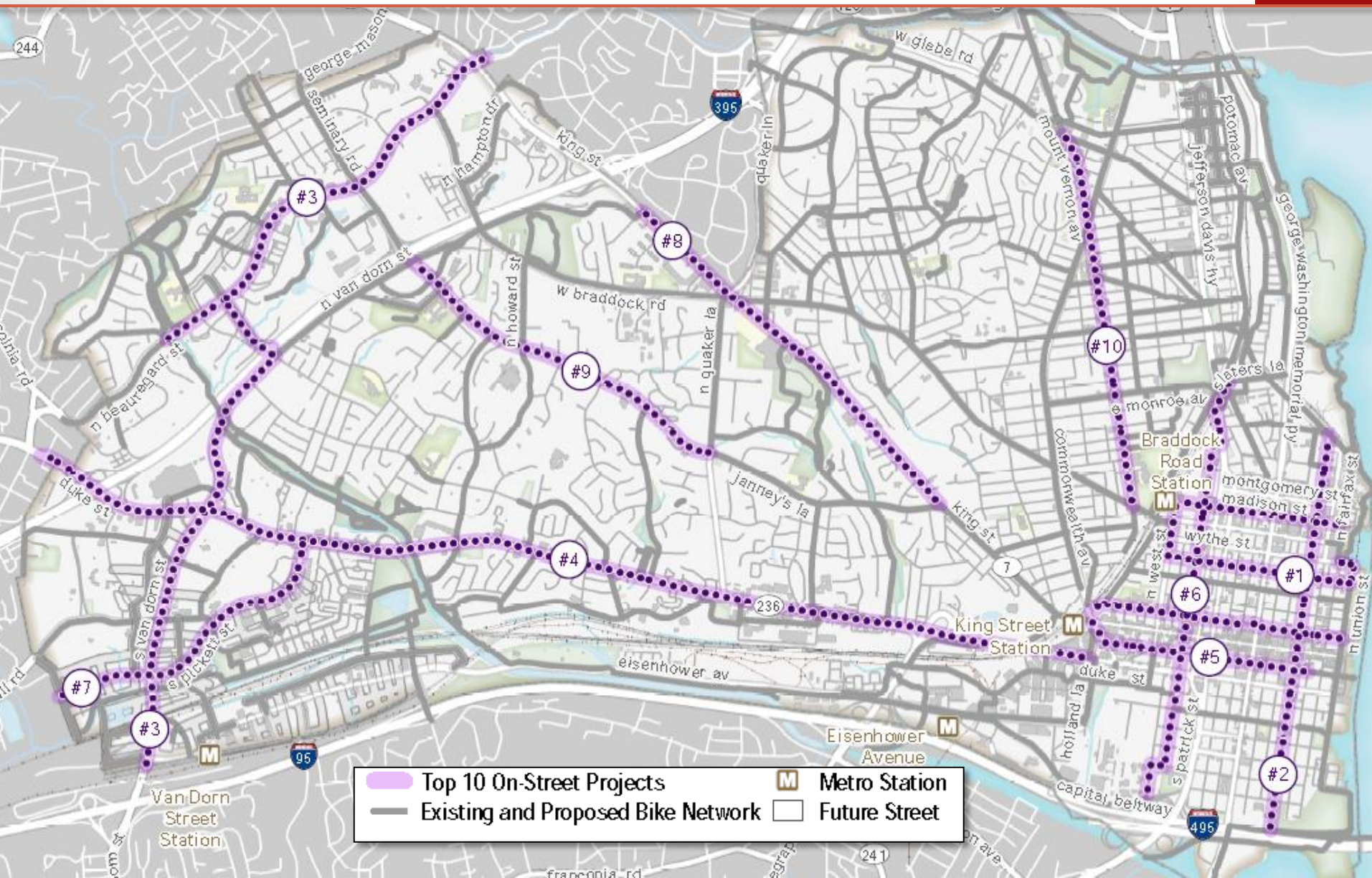
- Expand the on-street bicycle network through additional bike lanes, routes and shared lane markings
- Implement / evaluate protected bike lanes and neighborhood bikeways
- Improve access and safety for all users on trails, particularly at entrance / exit points
- Maintenance and snow removal of bicycle facilities
- Expand Capital Bikeshare system and seek additional operation funding opportunities

Program / Policy Strategies

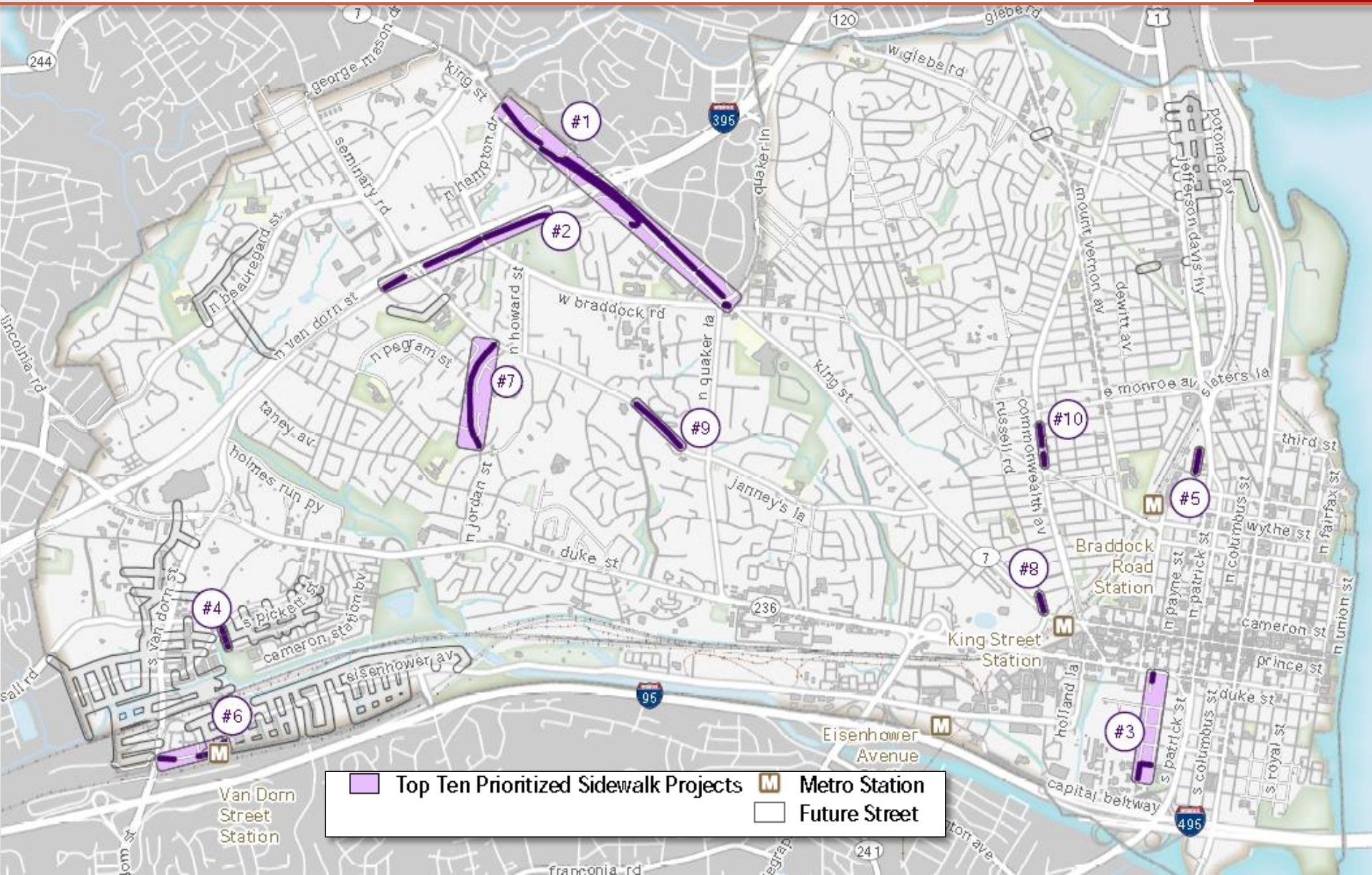
- Conduct construction inspections to ensure safe / accessible bike/pedestrian accommodations during construction
- Pursue funding for high priority bicycle projects
- Partnerships with Health Department and Schools
- Partner with Local Motion and Police to build upon the regional safety campaign
- Bicycle education, outreach and promotion to underrepresented groups

Implementation

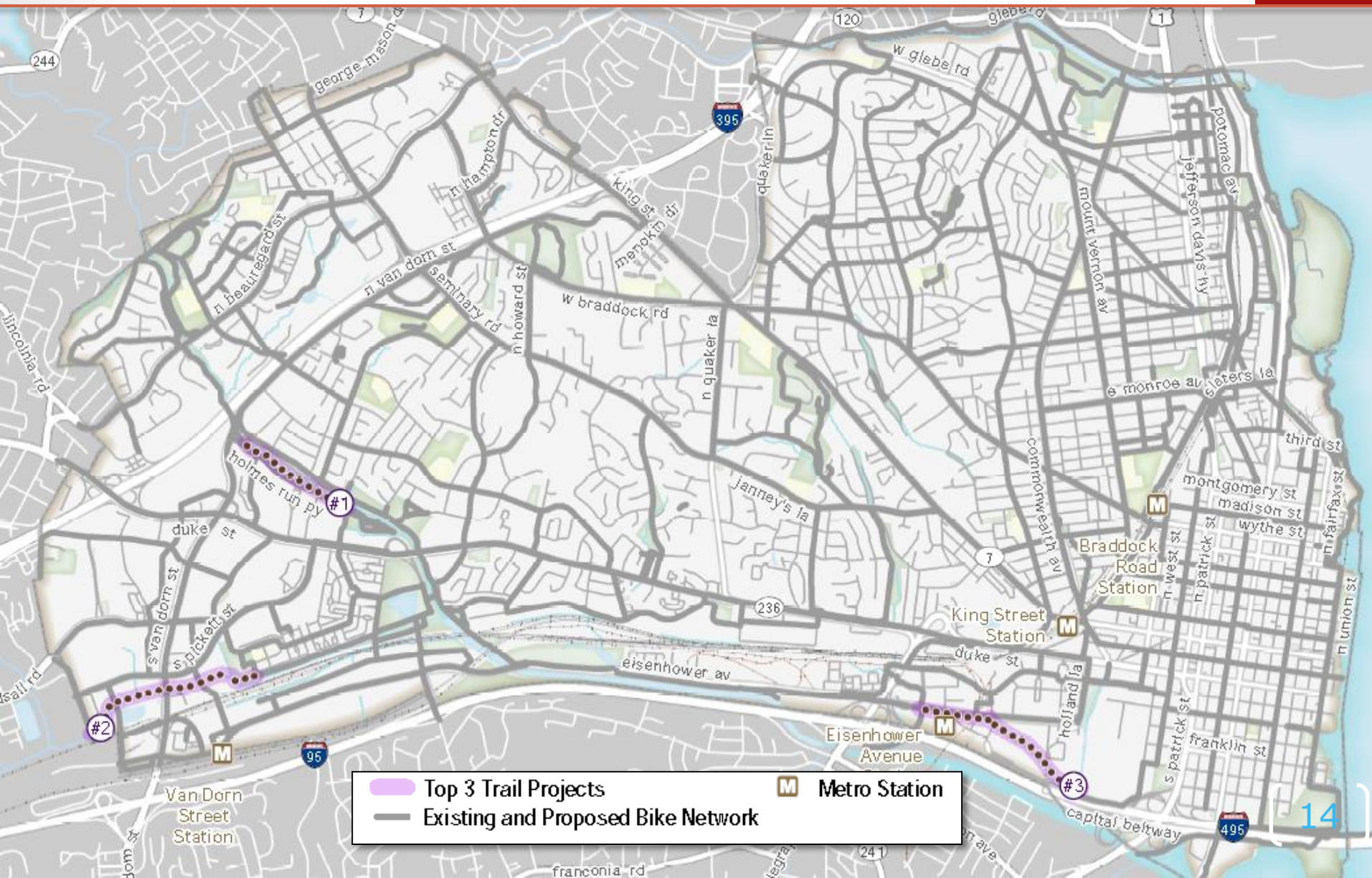
- Implement Project Priorities through City's budget process and grants
- Develop a Vision Zero policy and program
- Continue to implement pedestrian / bike improvements in coordination with development and street resurfacing
- Implement Case Study improvements through Complete Streets program and grants



Prioritized Sidewalk Projects



Prioritized Trail Projects



Priority Trail Crossing Improvements



Ad Hoc Advisory Committee



- February 25, 2016 - Endorsed approval of Pedestrian and Bicycle Master Plan, emphasizing:
 - Vision Zero initiative
 - Routine updates on status of plan / Report Card
 - City should pursue funding sources to implement the plan
 - Continue public engagement as projects are implemented

Transportation Commission Action



- March 16, 2016 - Endorsed approval of Master Plan Amendment with following:
- Pedestrian Engineering Strategy #5:
 - Add language to provide automatic pedestrian signals where feasible to minimize pedestrian delay
- Bicycle Program / Policy Strategy #12:
 - Include partnering with ACPS and include children as an underrepresented group
- Provide funding to implement the plan vision, goals, strategies and priority projects

Planning Commission Action

- April 5, 2016 - Approval of Master Plan Amendment with following:
- Pedestrian Engineering Strategy #5:
 - Add language to provide automatic pedestrian signals where feasible to minimize pedestrian delay
- Bicycle Program / Policy Strategy #12:
 - Include partnering with ACPS and include children as an underrepresented group

ALEXANDRIA COMPLETE STREETS DESIGN GUIDELINES



Vision

Streets are vital to the health, mobility, and accessibility of Alexandria's residents, workers, and visitors. Alexandria aspires to have a comprehensive, integrated transportation network with design that allows safe and convenient travel for people of all ages and abilities, including children, older adults and individuals with disabilities. The network should accommodate all users, including pedestrians, bicyclists, transit users, and motorists and incorporate green infrastructure to enhance the city's environmental quality.

Guiding Principles



**HEALTH AND SAFETY
FOR ALL USERS**



**NEIGHBORHOOD AND
ECONOMIC VITALITY**



**SUSTAINABLE
DESIGN**



**PLACEMAKING AND
NEIGHBORHOOD CHARACTER**



**ACCOMMODATE ALL MODES
OF TRAVEL**

ALEXANDRIA COMPLETE STREETS DESIGN GUIDELINES



Alexandria Street Typology

Alexandria's street typologies offer a balance between functional classification, adjacent land uses, and the competing needs of all modes of transportation. Each street typology prioritizes users and various design elements based on the context and character of the street. Within Alexandria's constrained public right-of-way, trade-offs must be balanced and should encourage healthy and active transportation options such as bicycling and walking.



ALEXANDRIA COMPLETE STREETS DESIGN GUIDELINES



Alexandria Street Typology

COMMERCIAL CONNECTOR

MAIN STREET

NEIGHBORHOOD RESIDENTIAL

PARKWAYS

SHARED STREETS

MIXED-USE BOULEVARD

NEIGHBORHOOD CONNECTOR

INDUSTRIAL

Street Overlays

TRANSIT STREETS BICYCLE NETWORK STREETS

HISTORIC STREETS AND ALLEYS



Next Steps

- **May:** Ordinance to amend the Alexandria Master Plan