



# Overview: An Urban Shared Bike Ped Path and Sidewalks with Cycletracks in McLean

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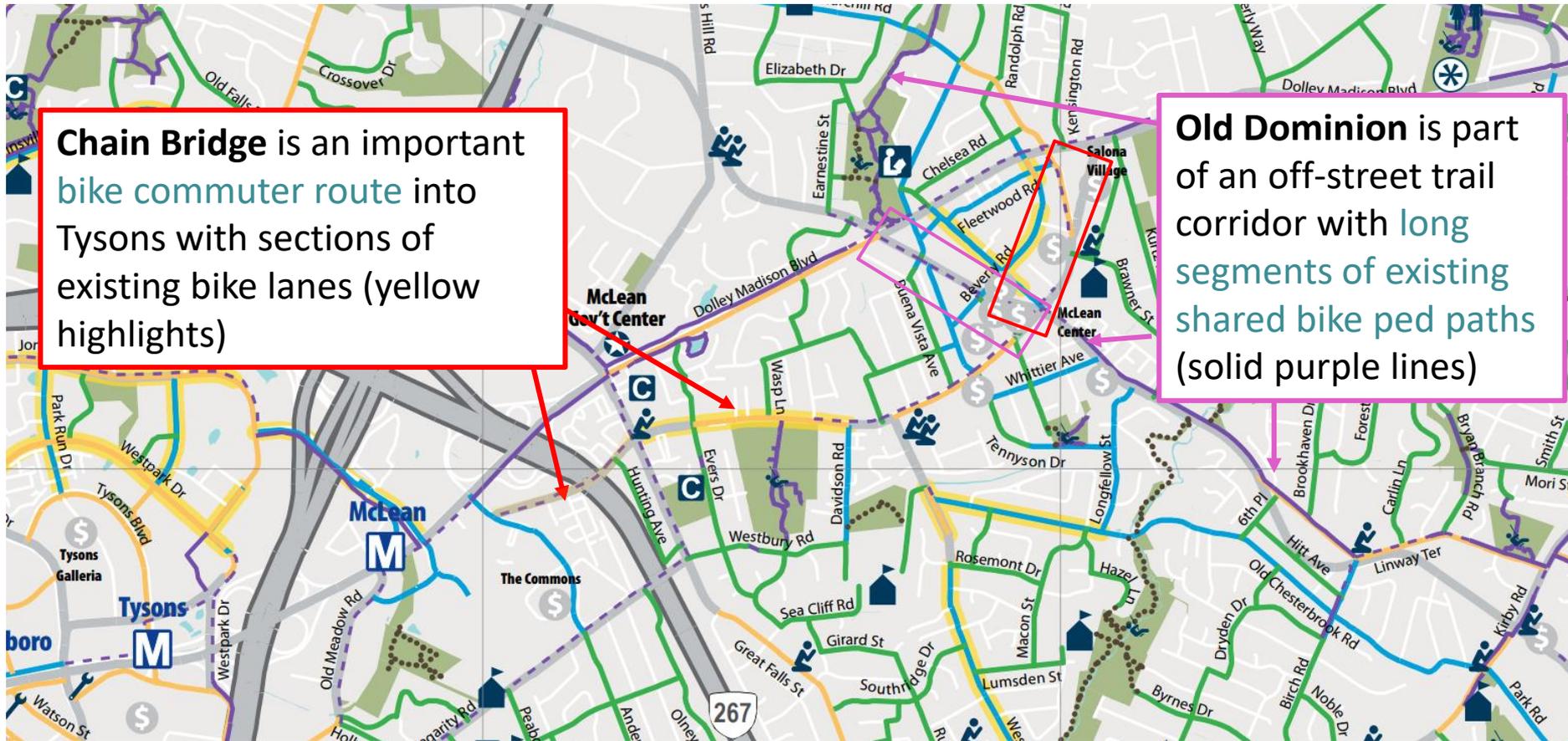


## Agenda and Purpose

1. Explain why the **Comp Plan** recommends different facilities for Old Dominion Drive and Chain Bridge Road
2. Describe the proposed **designs** for each facility
3. Explore **intersection treatments** to understand interactions between bikes and peds – how are interactions managed, how designs minimize conflict, and how are cyclists effectively slowed at conflict points
4. Review **draft recommendations** and address remaining concerns so that staff can build these details into the Design Guidelines



# Active Transportation Network Needs Differ by Location...





## What is an Urban Shared Ped Bike Path?

- Desirable along **regional trail corridors**
- Appropriate in **lower to medium density commercial or residential areas** such as McLean CBD **if 10+ft wide and with low user volumes** (less than 50 bike/ped users per hour - Old Dominion currently has 20 bike/ped users per hour at peak)
- Fully protected from vehicles and therefore **comfortable for users of all ages and abilities**
- **Not just a wide sidewalk** – wider facility, wider curb ramps and crosswalks, vertical clear zones and special signage
- **Not just a suburban Shared Use Path** – sawcut concrete or paver surface, lower design speed (8mph vs 18 mph), urban aesthetics
- Cyclists that prefer to travel fast will likely chose to bike on-street instead

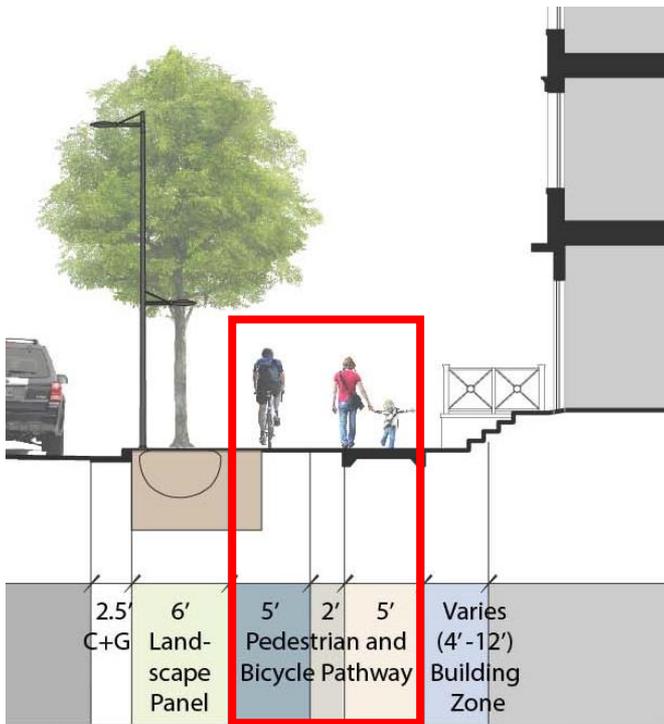


# What is a Sidewalks with Cycletracks Design?

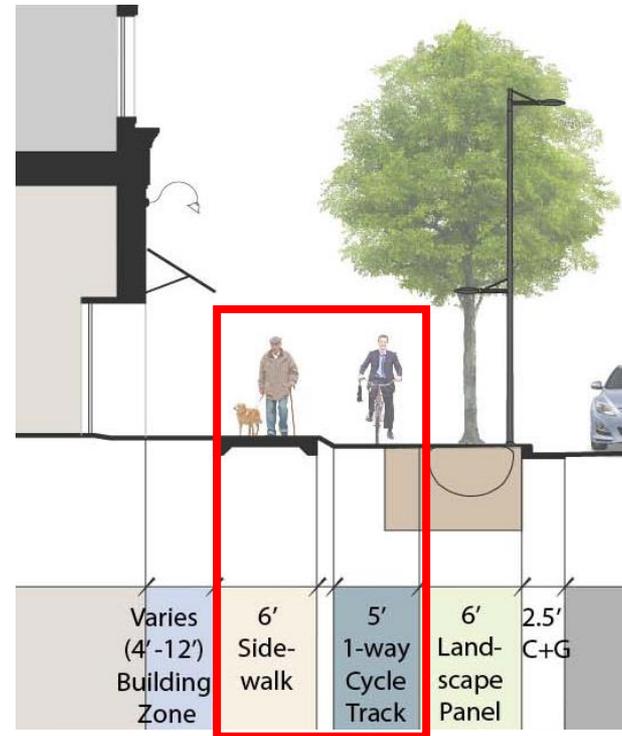
- Separation of bike and ped users desirable in high density commercial or residential areas
- Comfortable for bike/ped users of all ages and abilities even with very high user volumes (W&OD has around 300 per hour at peak)
- Fully protected from vehicles, bike-friendly ramps, vertical clear zones and bike lane signage needed (bicycle signals are currently not legal in Virginia)
- ADA detectable separation from sidewalk needed – ideally vertical (keeps pedestrians more efficiently out of the bike path, 1ft tactile surface at a minimum)



# Street Cross-sections – Avenue



Avenue 1: Old Dominion –  
Urban Shared Ped Bike Path



Avenue 2: Chain Bridge –  
Sidewalks with Cycletracks



## Old Dominion Drive: Urban Shared Ped Bike Path Design



# Comprehensive Plan and Staff Guidance Old Dominion Drive Ped Bike Path - Summary

- **Width** – 12-foot wide, buffered from the street by trees and furnishings
- **Paving materials** – Recommend one material for the entire width (mix of pavers and concrete). Do not recommend a change down the middle to delineate space for bikes and peds. This is appropriate given the existing and future anticipated volumes and the overall width of the facility.
- **Special signage and markings** – Bikes Yield to Pedestrian; Slow
- **Intersection treatment** – Wide ramps and wide crosswalks (equal to the width of the facility) that meet VDOT Road Design Manual Shared Use Path ramp requirements.
- **Driveway Crossings** – Facility continues across minor driveways with same paving treatments and at the sidewalk grade, where feasible



# Old Dominion - Urban Shared Ped Bike Path Example





# Old Dominion - Urban Shared Ped Bike Path Example



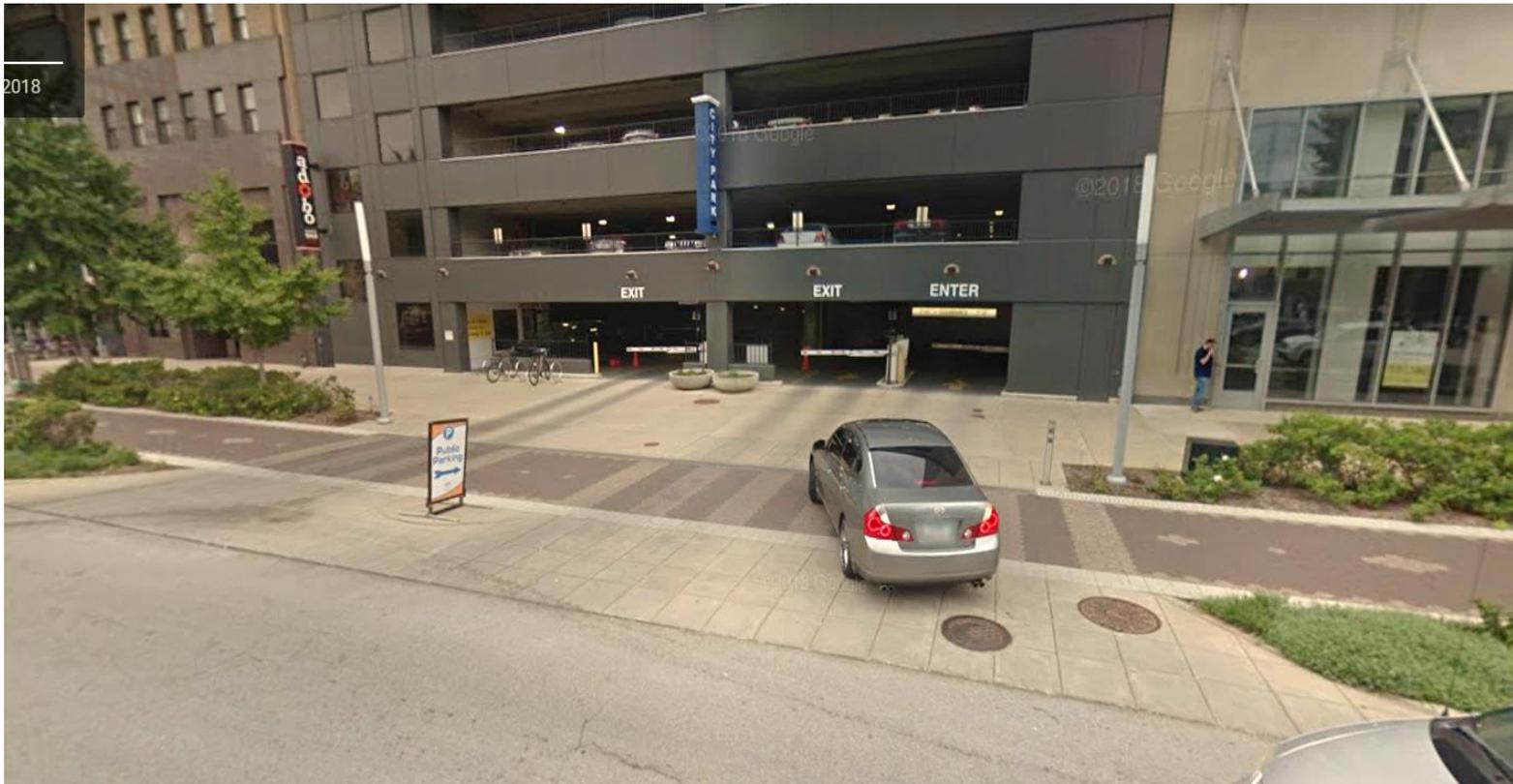


# Old Dominion - Urban Shared Ped Bike Path Example - Intersection Design



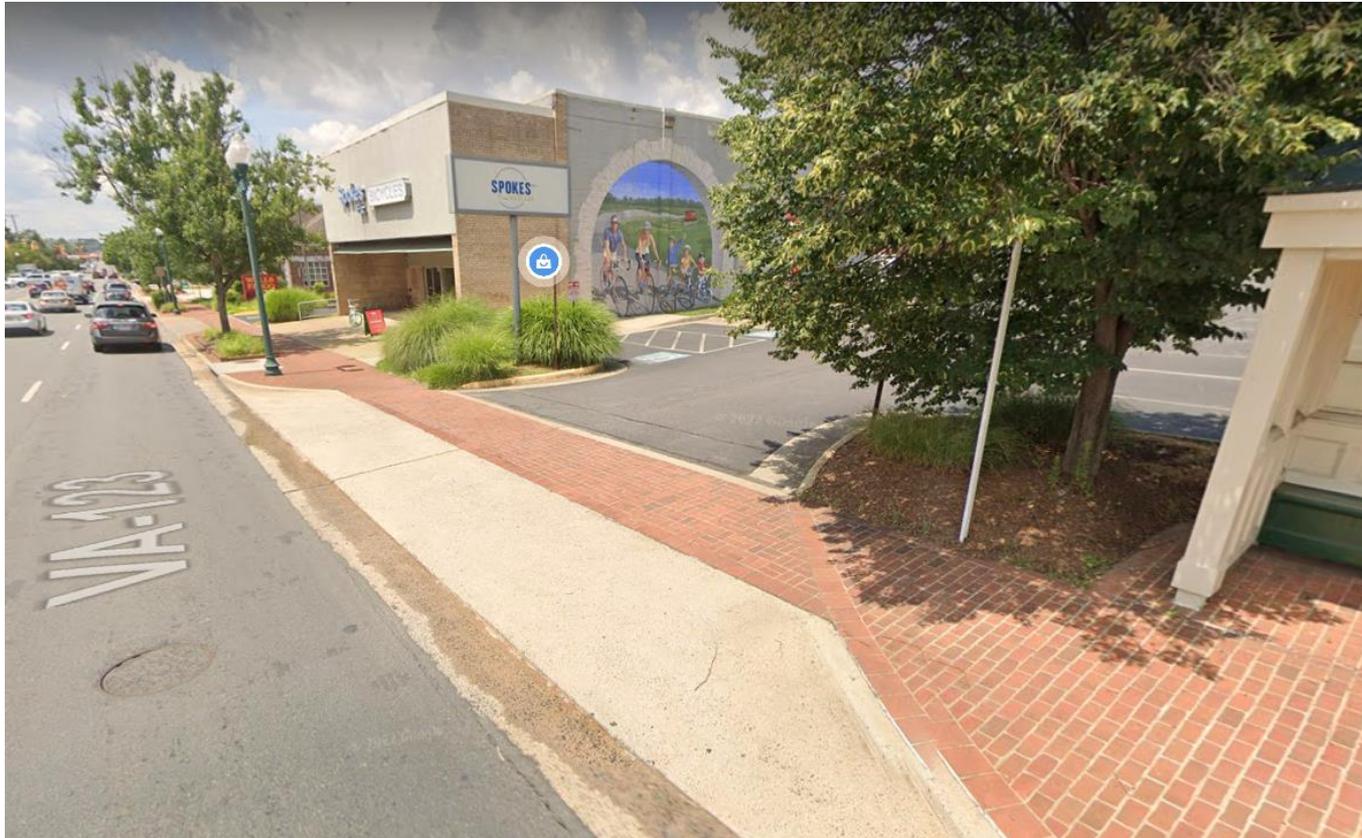


# Old Dominion - Urban Shared Ped Bike Path Example – Driveway Design





# Old Dominion - Urban Shared Ped Bike Path Example – Driveway Design



Note: Proposed facility would be twice as wide. This is a local example of a raised driveway from the Town of Vienna

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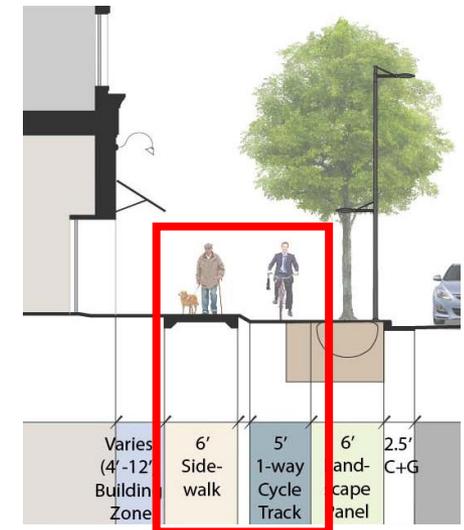
## Chain Bridge Road : Sidewalks with Cycletracks Design



# Comprehensive Plan and Staff Guidance

## Chain Bridge Road: Sidewalks with Cycletracks

- Width – 6-foot sidewalk, 5-foot on-way cycletrack, 1-foot ADA separation (low curb or detectable material), buffered from the street by trees and furnishings.
- Paving materials (cycletrack) – concrete (with saw cut joints) or asphalt
- Paving materials (sidewalk) – mix of pavers and concrete
- Intersection treatment – Plaza design
- Driveway Crossings – Facility continues across minor driveways with same paving treatments and at the sidewalk grade



Avenue 2: Chain Bridge – Sidewalks with Cycletracks



# Chain Bridge – Sidewalks with Cycletracks





# Chain Bridge – Sidewalk with Cycletrack Example



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# Chain Bridge – Sidewalks with Cycletracks Example





# Chain Bridge Intersection Design – Preferred Option

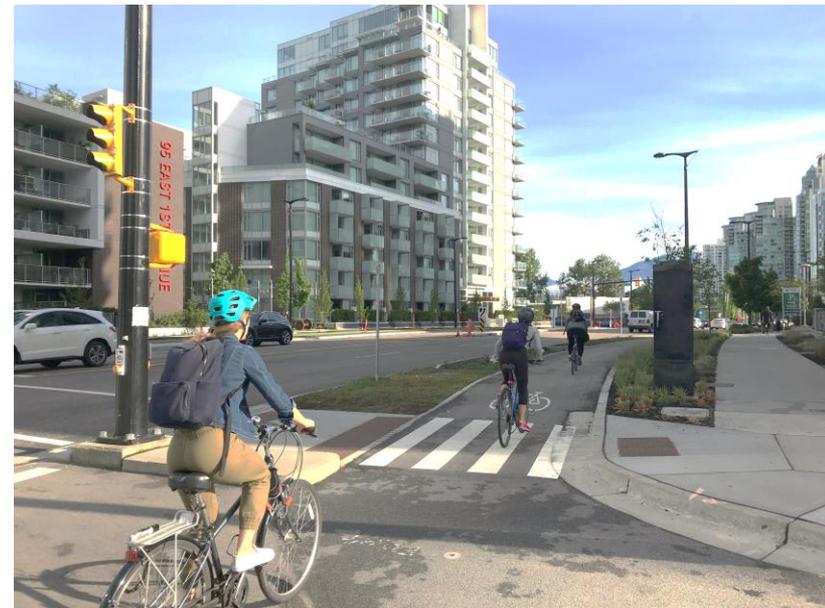
- Mixed yield zones (plazas) at intersections
  - Intuitive for all users, especially for visually impaired
  - Calms bicycle speeds at conflict points
  - Placemaking opportunity
- Design Elements:
  - Bikes Yield to Peds signage entering plaza,
  - Wide curb ramps and wide crosswalks (similar to a shared bike ped path)
  - Highly visible: Ideal location for aesthetic treatments, space for public art





# Chain Bridge Intersection Design – Alternative Option

- Full separation of peds and bikes
  - Supports higher bicycle speeds at intersections
  - Highest pedestrian and bicycle comfort
  - Not as intuitive for visually impaired pedestrians
- Design Elements:
  - High visibility crosswalks and yield markings across cycletrack
  - Curb ramps down to cycletrack or cycletrack ramps up to sidewalk level – truncated domes needed in both case
  - Yield to Peds signage





# Chain Bridge – Sidewalks with Cycletracks – Driveway Design





# Chain Bridge – Sidewalks with Cycletracks – Driveway Design

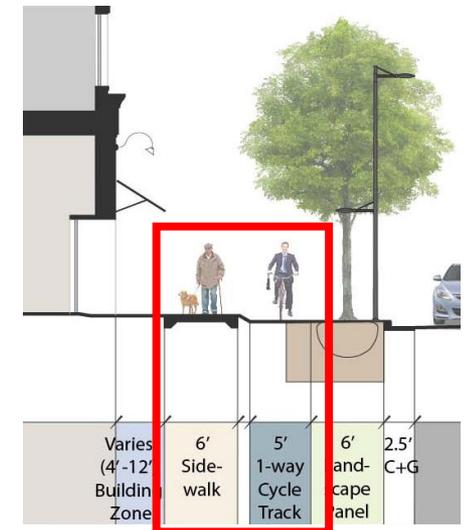




# Comprehensive Plan and Staff Guidance

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Avenue 2: Chain Bridge – Sidewalks with Cycletracks



# ActiveFairfax Transportation Plan

- Update countywide active transportation network
  - Merge and update 2018 Countywide Trails Plan, 2014 Bicycle Master Plan
  - Make connections to planned facilities in activity centers
  - Policy and programmatic recommendations
- Timeline: 2020 – 2024 (public engagement on draft network planned for fall 2023)
- Website:  
[www.fairfaxcounty.gov/transportation/bike-walk/activefairfax](http://www.fairfaxcounty.gov/transportation/bike-walk/activefairfax)





Thank you! Questions?

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