

George T. Snyder Trail

Design Update

August 6th, 2020



Project Objectives

- Provide a shared-use path from Chain Bridge Road (Route 123) to Draper Drive
- Improve regional trail connectivity.
- Provide a context-sensitive design solution that limits impacts to environmental resources, right-of-way, and utilities.

Project Status

- Design is approaching 65%
 - Trail/Bridge/Retaining Wall Design
 - Hydrology and Hydraulics/Drainage Design
 - Stormwater Management
 - Lighting
 - Landscaping
 - Erosion and Sediment Control

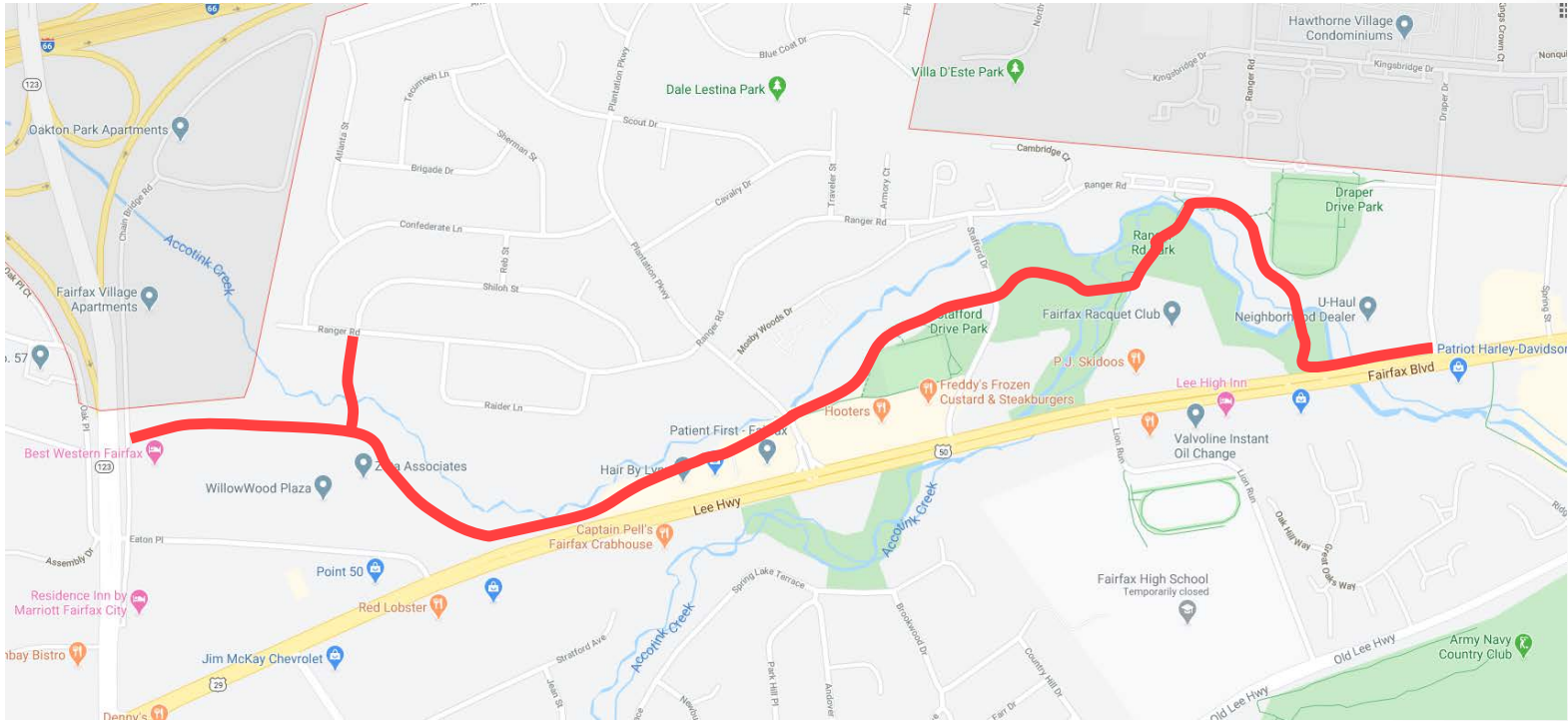
Public Outreach

- Four Advisory Group Meetings
 - May 2019, August 2019, December 2019, August 2020
- City Staff Meetings with Stakeholders
 - Mosby Woods, Cambridge Station & Mosby Woods Condominium - August 2020
- Public Hearing – September 2020

Preliminary Design Overview

- Trail
 - 10-ft wide
- Five trail bridges
- Concrete Boardwalk
- Stormwater Management / Drainage Improvements
 - Swales and inlets
- Lighting
 - At intersections / connections

Project Location



Preliminary Design Overview

- Bicycle/Pedestrian Bridges
 - Accotink Creek - Four crossings
 - Unnamed Tributary – One crossing
 - 14-ft clear width
 - Thru-truss design, weathering steel
 - Concrete decks



Preliminary Design Overview

- Boardwalk
 - Bridge approaches within floodplain
 - Type and appearance



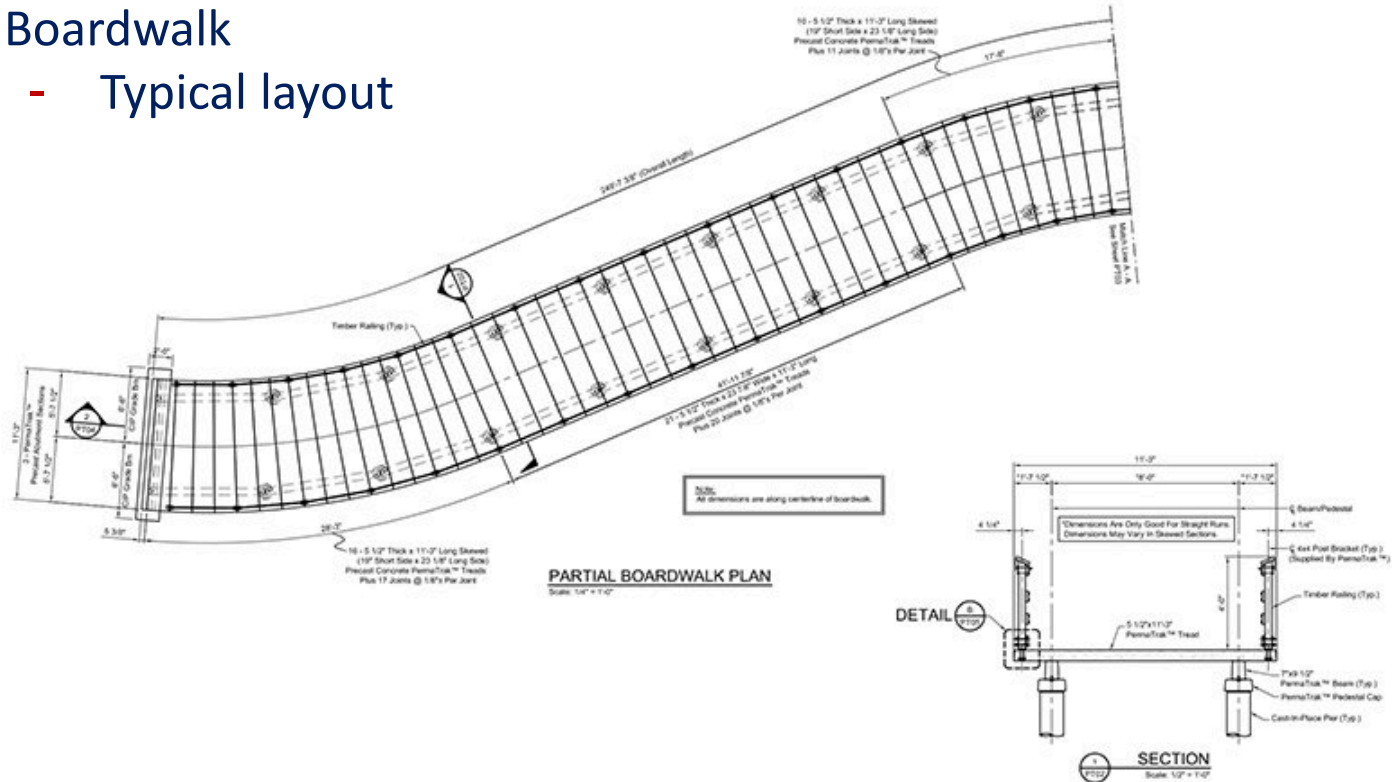
Site Context



Deck: Concrete planks, 14-ft clear width (left), savannah brown color (top right), wood texture (bottom right)

Preliminary Design Overview

- Boardwalk
 - Typical layout



Preliminary Design Overview

- Boardwalk
 - Railings

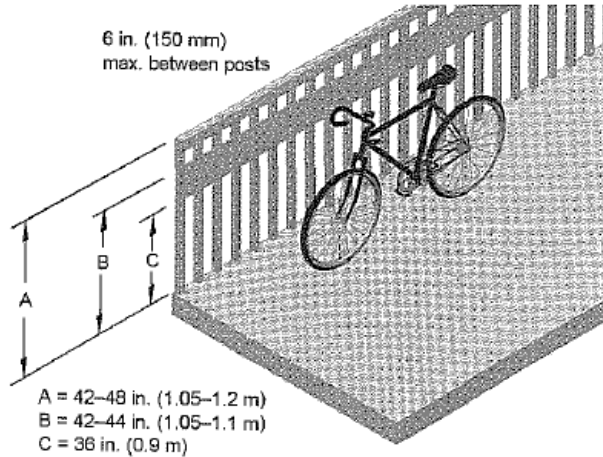
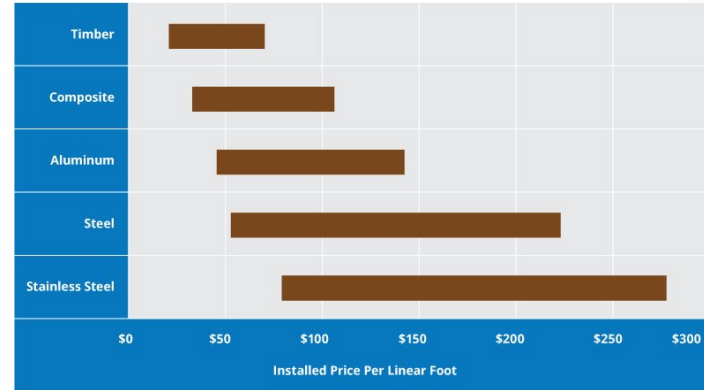


Figure 5-11. Bridge Railing

Source: AASHTO



Aluminum with mesh panels



Stainless Steel with tensioned cable

Preliminary Design Overview

- Retaining Walls
 - Required between trail and private properties to minimize property impacts
 - Use to limit grading impacts to forested area
 - Segmental block walls
 - Variable Height (3' to 17')



Preliminary Design Overview

- Lighting
 - Intersections and trail junctions
 - King K703/803 Solitaire w/ flat lense
 - Dark-sky Friendly



Preliminary Design Overview

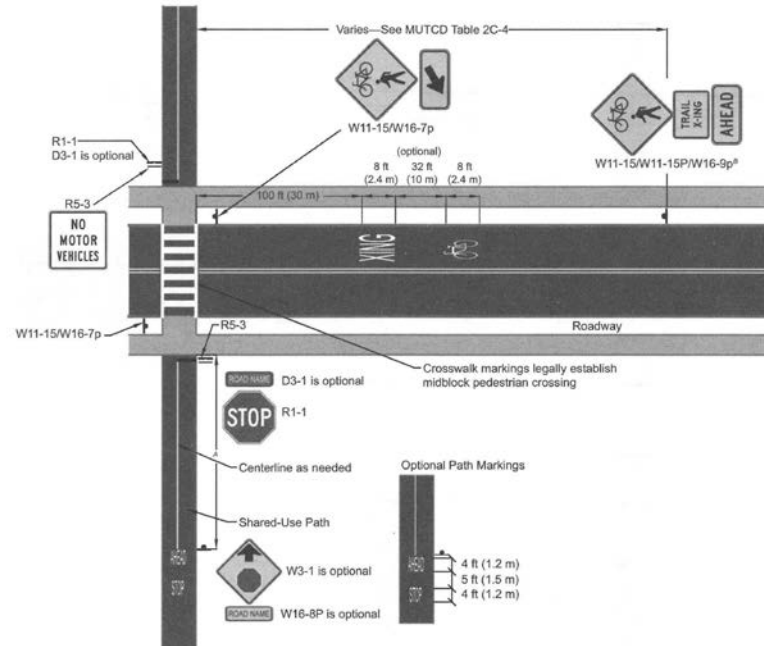
- Intersections



Example of raised crosswalk



Typical bollard layout, with center removable bollard



Notes:

- ^A Advance warning signs and solid centerline striping should be placed at the required stopping sight distance from the roadway edge, but not less than 50 ft (15 m).
- ^B W11 series sign is required, supplemental plaques are optional.

Figure 5-19. Example of Mid-Block Path—Roadway Intersection—Path is Stop Controlled for Bicyclists

Preliminary Design Overview

- Safety Considerations
 - Safety railing on retaining walls
 - Trail buffer
 - Intersection lighting
- Project Aesthetics
 - Treatment for retaining wall
 - Lighting
 - Landscaping

Typical Plant Selection

- Native species
 - Grasses and Perennials
 - Evergreen Shrubs
 - Ornamental Shrubs
 - Small Flowering Trees
 - Large Shade Trees

Questions?