

Trolley Line Trail Design Sketchbook

FOR DISCUSSION

TROLLEY LINE TRAIL COMMITTEE

MAY 14, 2020

A photograph of a dirt path winding through a forest. The path is covered with fallen leaves and small stones. On the right side of the path, a large tree trunk is visible, marked with a small blue rectangular tag. The background is filled with dense green foliage and trees.

TRAIL DESIGN SKETCHBOOK PROPOSAL

...a trail design guide or “sketch book” of ideas through photos, line-drawings, and graphic renderings to assist local staff with trail design decisions

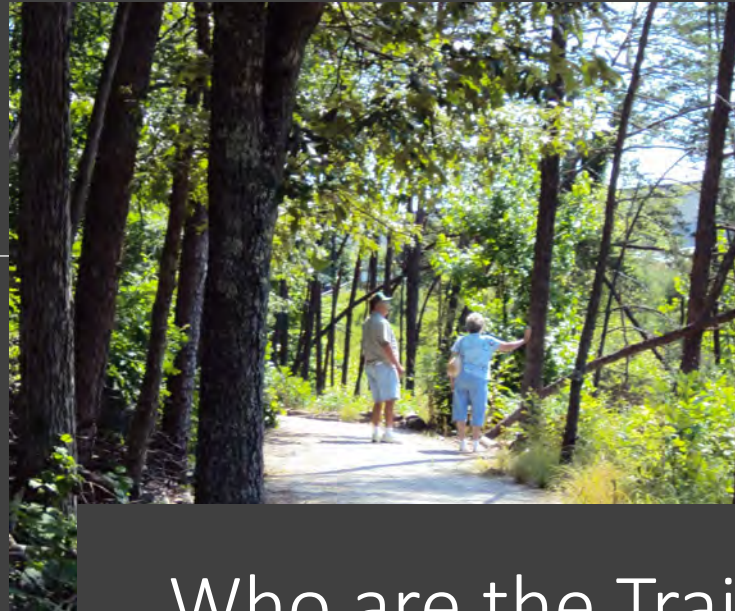
...a resource, to stimulate discussion on various design elements, and enhance multi-jurisdictional coordination

EXPLORING THE POSSIBILITIES

Sketchbook Ideas (for discussion)

- Types of Trail Users
- Trail Corridor Character: setting and context
- Trail Elements: structures, features, amenities, trailheads
- Trails and Green Infrastructure
- Universal Design / Accessibility





Who are the Trail Users?



Trail Character and Context

Rural vs developed; natural setting (field, forest, stream); on-road vs off-road; active utility operations



Schuylkill River Trail



Tobacco Heritage Trail

Trail Elements



Trail
Surface
Design



Bridges and
Underpasses



Road
Crossings



Amenities,
Facilities,
and Trail
Services



Trail Art



Signage
and
Wayfinding

Trail Surface

Trail Surface: asphalt, crushed stone, concrete, pavers



Washington & Old Dominion



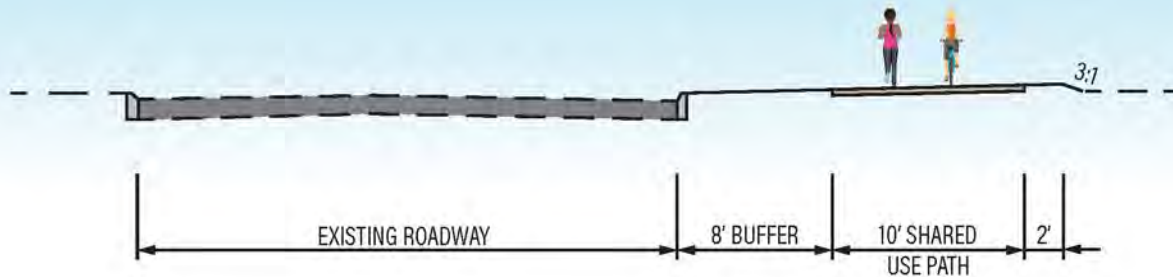
Dahlgren Railroad Heritage Trail



Great Allegheny Passage

Trail Design - Cross Sections

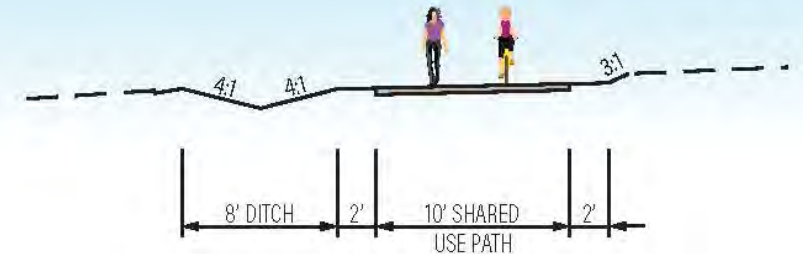
TYPICAL A



NOT TO SCALE

Adjacent to Roadway

TYPICAL D

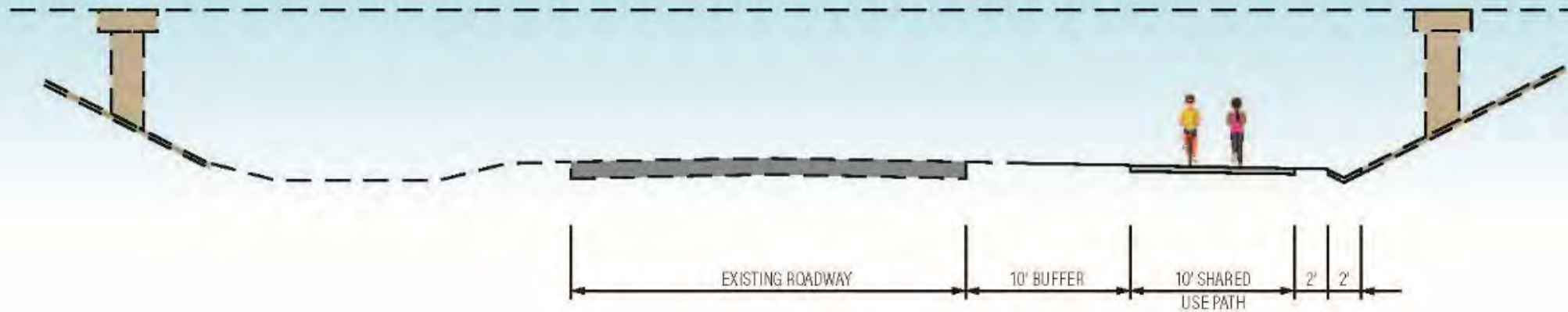


NOT TO SCALE

Off-road; Trolley Line Right-of-Way

Bridges and Underpasses

TYPICAL E



NOT TO SCALE

Example: Trail Underpass



Greenwood Road & I-295 Underpass

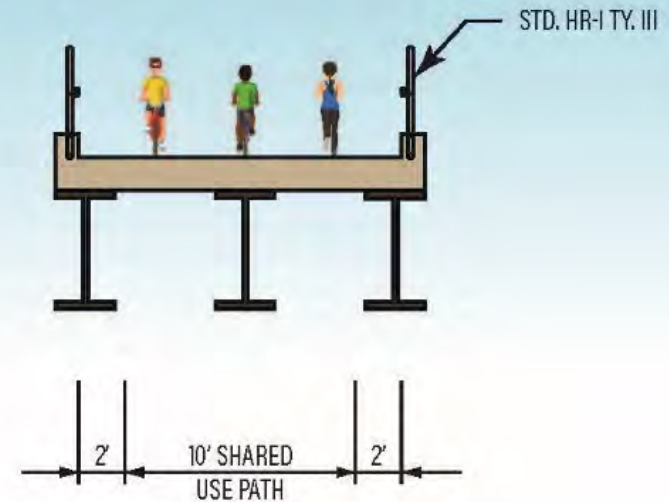


Emerald Trail & I-95 underpass; Jacksonville, FL

Bridges and Underpasses



TYPICAL G



NOT TO SCALE

Example: Trail Bridge



Chickahominy River & Trolley Line Right-of-Way

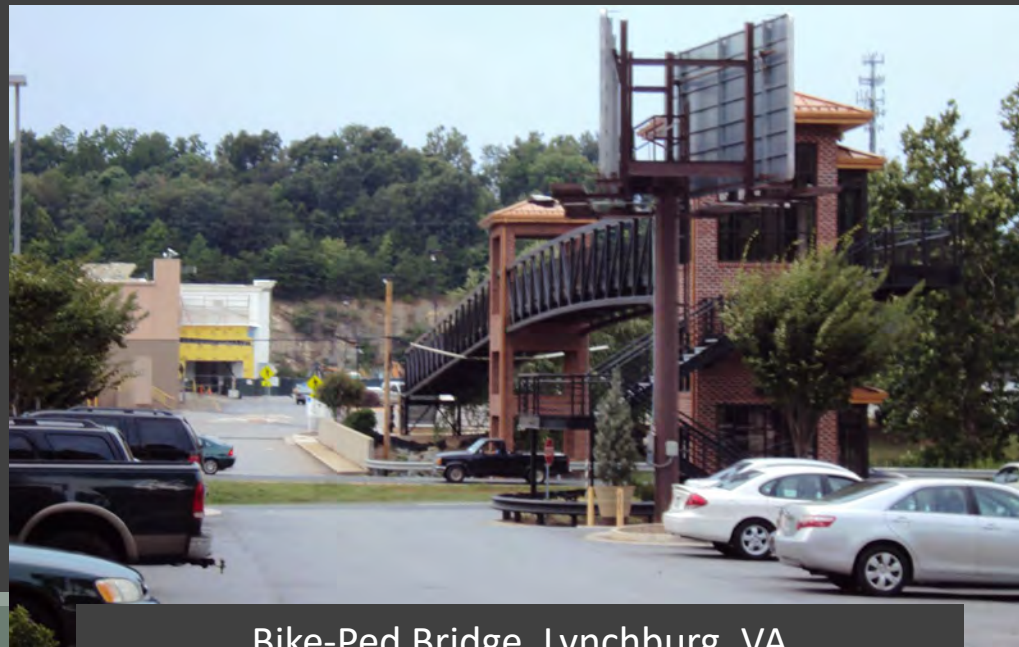


Tobacco Heritage Trail, Meherrin River

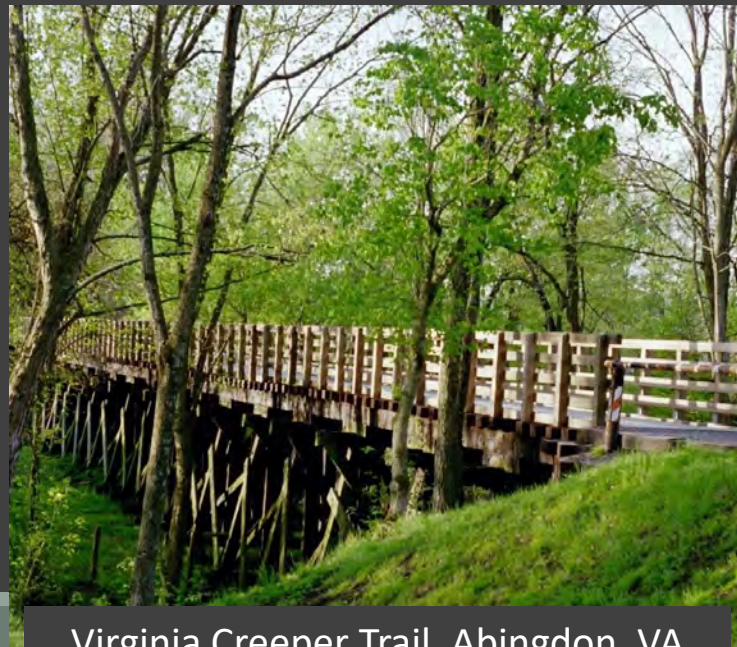
Bridges



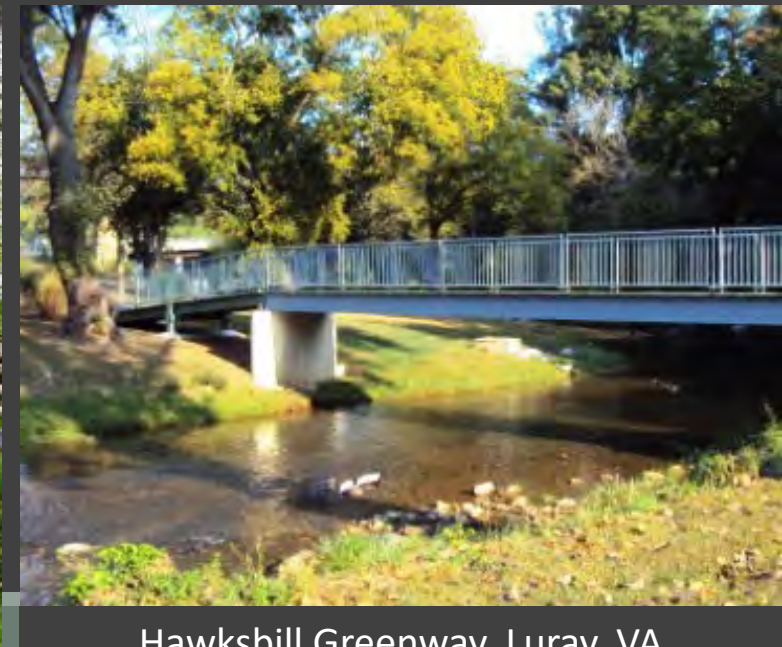
Tobacco Heritage Trail, Meherrin River



Bike-Ped Bridge, Lynchburg, VA



Virginia Creeper Trail, Abingdon, VA



Hawksbill Greenway, Luray, VA

Example: Boardwalks



Road Crossings

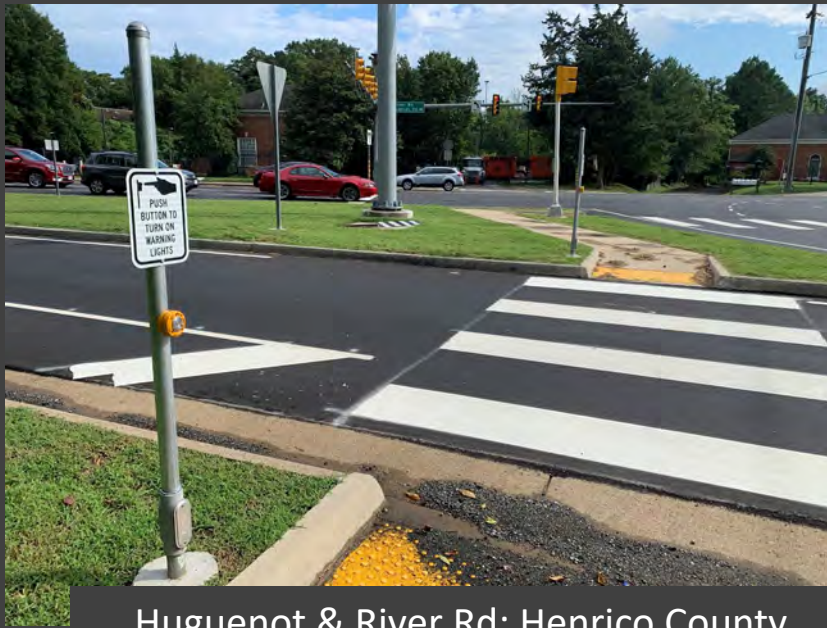


High Bridge Trail, Farmville



Tennessee Central Trail

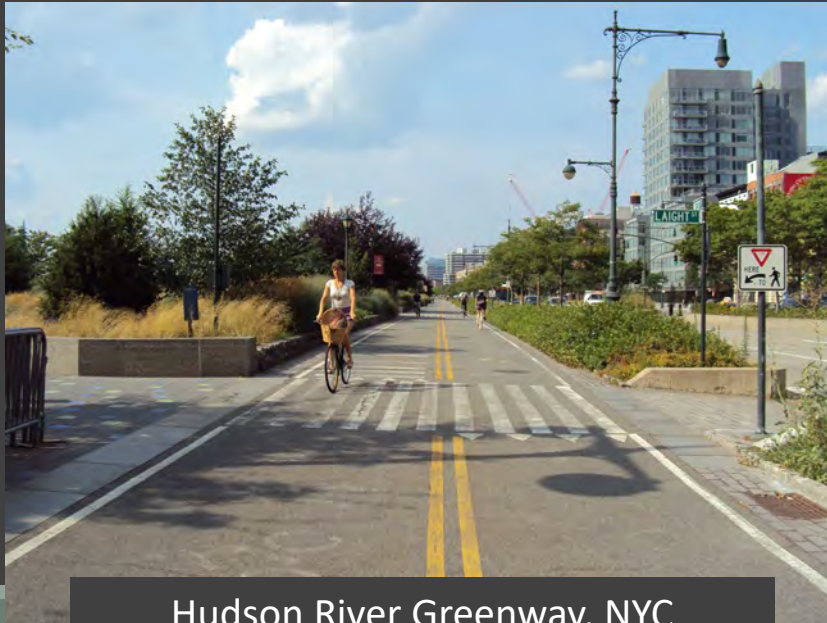
Road Crossings



Huguenot & River Rd; Henrico County



Route 5 & Virginia Capital Trail



Hudson River Greenway, NYC

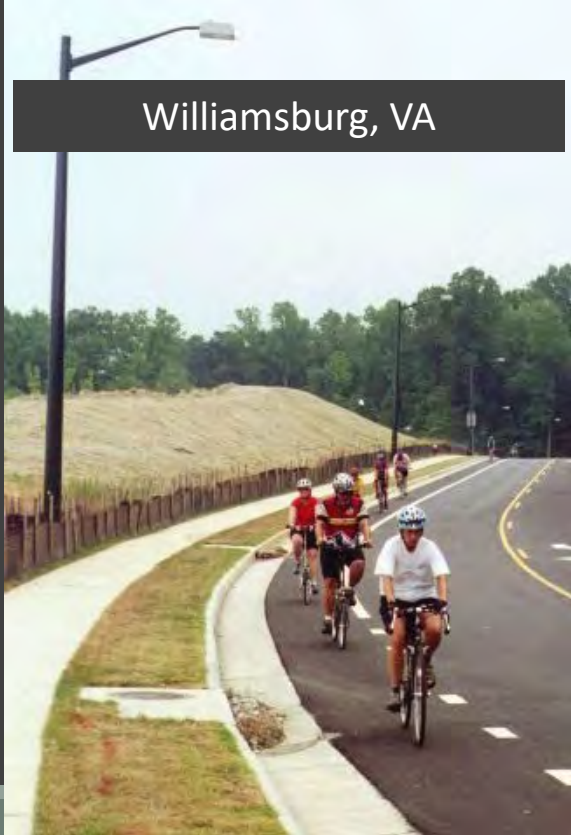


Evans Creek Rd & Tobacco Heritage Trail



On-Road Elements

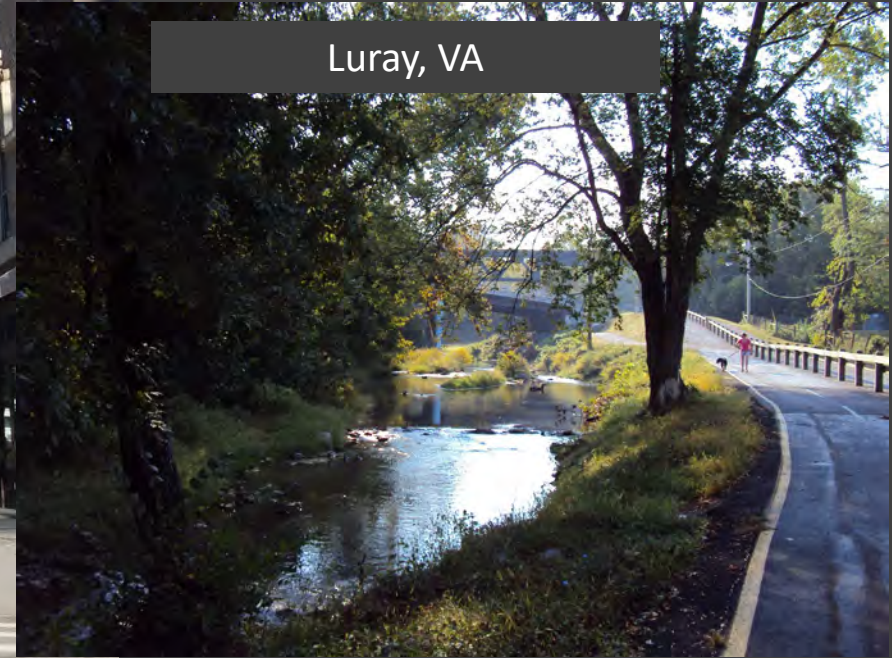
Williamsburg, VA



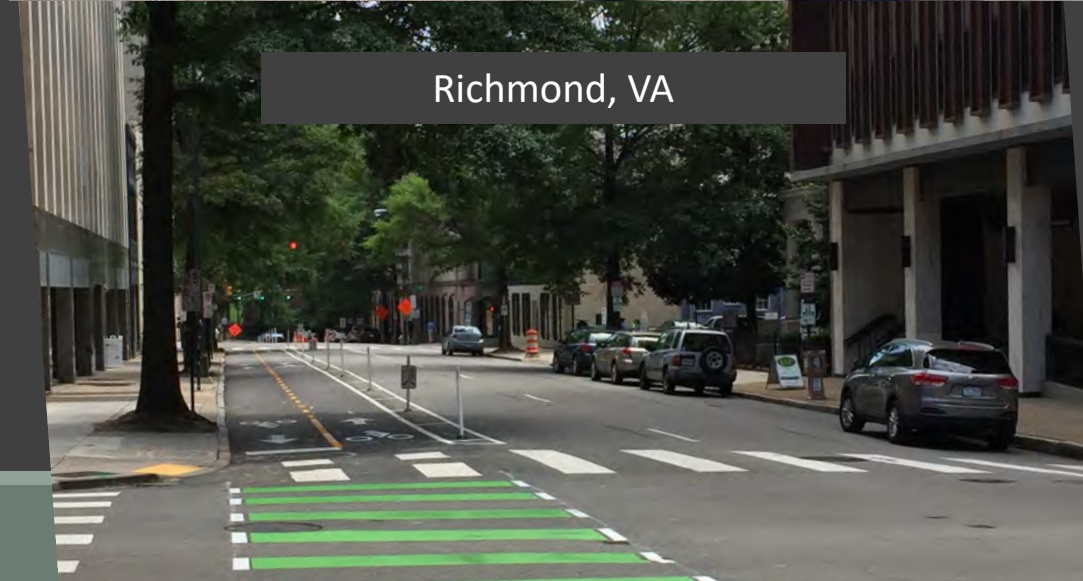
Manhattan, New York City



Luray, VA



Richmond, VA



Rockbridge County, VA





Bollards and Gates





Amenities

Trailside Amenity Structures





Trail Art



Trail Rest Areas



New River Trail



Washington and Old Dominion Trail



Trailside Services



Great Allegheny Passage



Great Allegheny Passage



Washington and Old Dominion Trail



Signage and Wayfinding



Tobacco Heritage Trail

Examples: Signage



Examples: Signage



1. Informational
2. Directional and Wayfinding
3. Regulatory
4. Interpretive



Trailhead Design

Example: Hanging Rock Battlefield Trail





Trailhead Design

Example: Jackson River Trail



Area of Special Consideration

Trails in Powerline Right-of-Way



Washington and Old Dominion Trail

Area of Special Consideration

Trails Adjacent to
Residential
Development



Washington and Old Dominion Trail

Trails and Green Infrastructure

Green infrastructure refers to an interconnected network of natural areas and open space that protects ecosystem functions and contribute to clean air and water.

– Mark Benedict and Ed McMahon, 2006

Trail Corridors & Ecosystem Service

- Stormwater management
- Conservation of forests and riparian areas
- Wildlife habitat



Example: Gambles Mill Eco-Corridor



The project includes four key components:

- construction of a multi-use recreational trail
- removal of invasive plants
- management of storm water
- restoration of Little Westham Creek

“The trail-restoration project turned into a stream-restoration project, which will ultimately result in the planting of 9,000 new trees, and provide space for teaching,”

- Rob Andrejewski, University of Richmond, Director of Sustainability

Accessibility



Photo courtesy U.S. Access Board



- Architectural Barriers Act (ABA) of 1968
- Americans with Disabilities Act (ADA)
- Rehabilitation Act of 1973

DISCUSSION

- Could a design sketchbook support local trail planning efforts? If so, how?
- Who are your audiences?
- What content should be included?
- What format should be considered?





National Park Service
Rivers, Trails and Conservation Assistance
Ursula Lemanski, AICP
703-431-7728