# Broadneck Peninsula Trail Phase III

Community Meeting
December 3, 2018 6:30 PM
Windsor Farm Elementary School
591 Broadneck Road, Annapolis, MD 21409









### **Phase III**

#### **Project Team**

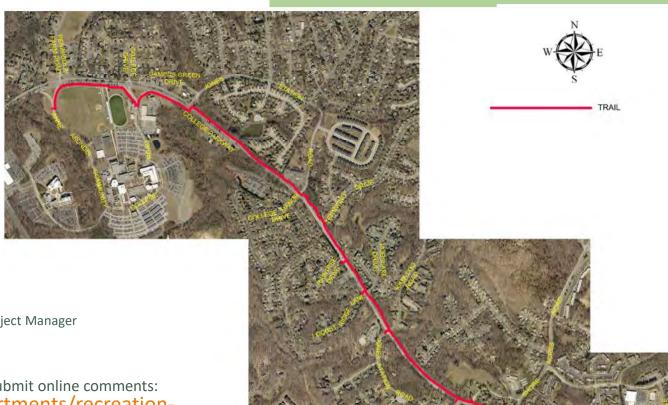
Dawn Thomas, CPRP
Capital Project Manager
Department of Recreation and Parks
410-222-7317, x 3537
rpthom00@aacounty.org

Robert M. Fernandez, P. E. Project Manager Department of Public Works 410-222-7938 pwfern83@aacounty.org

Consultant: Pennoni Associates, Peter J. Stone, Project Manager

#### **Comments**

Website for additional information and to submit online comments: <a href="https://www.aacounty.org/departments/recreation-parks/parks/trails/broadneck-trail/comment-form/index.html">https://www.aacounty.org/departments/recreation-parks/parks/trails/broadneck-trail/comment-form/index.html</a>



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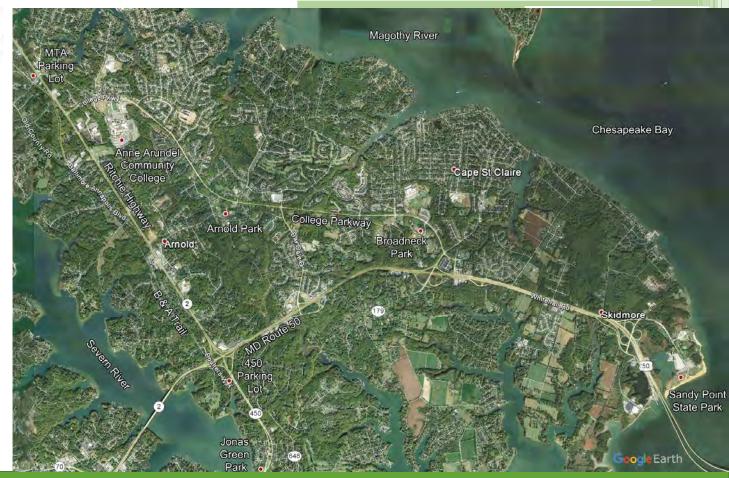
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# Broadneck Peninsula Map





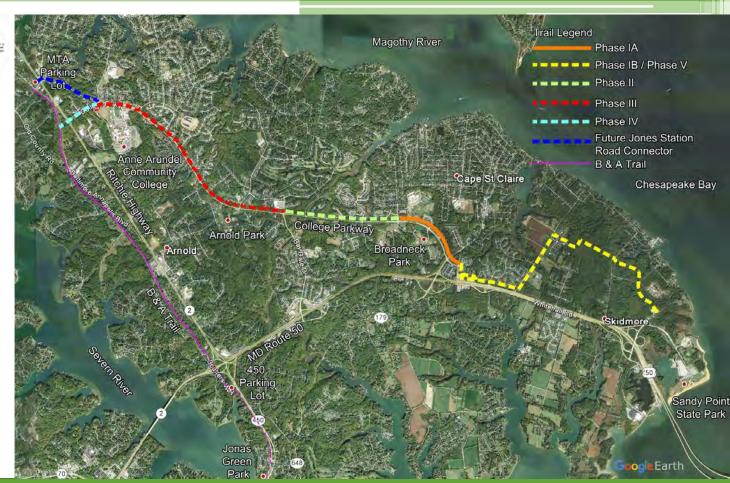
# Broadneck Peninsula Map with Trails

#### **STATUS OF PHASES**

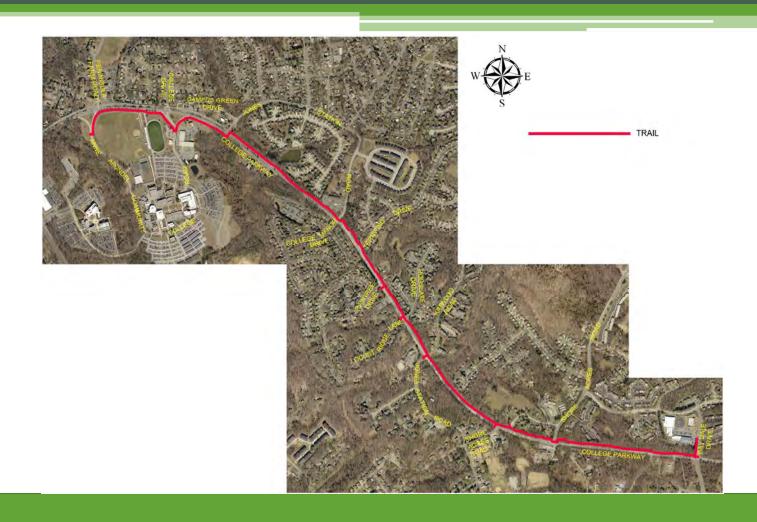
<u>Phase IA</u> - Complete <u>Phase IB/Phase V</u> – Under Design <u>Phase II</u> – Under Construction

#### **Phase III** – Under Design

<u>Phase IV</u> – Not Programmed <u>Jones Station Connector</u> – Under Design



### **Phase III**



#### **Phase III**

#### **STATUS OF PHASE III**

- Feasibility Study Complete April 2017
- Initial Public Meeting July 2017
- Schematic Design Complete May 2018
- Design Development/Construction Documents Start June 2018
- Submit DD Package November 2018
- Submit Permits January 2019
- Submit Construction Documents January 2019
- Award Contract July 2019 (Subject to County Council Approval and Appropriation of funds)
- Construction Start Fall 2019 (Subject to County Council Approval and Appropriation of funds)

#### Master Plan Goals

- Minimize conflict with other forms of transportation.
- 2. Maximize existing County owned land to minimize conflicts with private property owners.
- 3. Minimize environmental impacts.
- 4. Align trail to take advantage of natural features.
- Design a multi-use trail that can accommodate a wide range of users.

#### MASTER PLAN BROADNECK PENINSULA TRAIL

Prepared for:

Anne Arundel County, Maryland

Janet S. Owens, County Executive
Dennis M. Callahan, Director, Department of Recreation & Parks
John B. Brusnighan, Director, Department of Public Works

Prepared by:

Human & Rohde, Inc. Landscape Architects / Land Planners Towson, Maryland

April, 1999

# Changes To Plans Since July 2017 Public Meeting

**Jones Station Road Crossing** 

- Trail to cross immediately east of this intersection
- Crossing to utilize existing median for pedestrian refuge
- New traffic signal proposed with associated pedestrian signals
- Road improvements to lengthen left turn lane onto Jones Station Rd from College Parkway



#### **College Parkway Crossings**

- Unsignalized Pedestrian Crossings have been added at Raintree Drive and Locust Ridge Lane
- Crossings include sidewalk ramps, pavement marking, signage, and pedestrian refuge islands midway across College Parkway



### **Example Pedestrian Refuge Island**





#### **College Parkway Crossings**

- Pedestrian Crossing has been added at Jones Station Road/Kimwood Drive
- Crossing include sidewalk ramps, pedestrian traffic signals, pavement marking, and signage



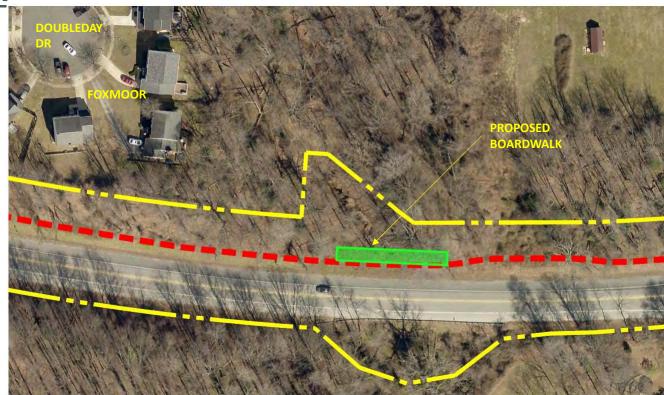
#### **College Parkway Crossings and Connection to Freshfield Lane**

- Pedestrian Crossings have been added at Shore Acres Rd.
- Crossings include sidewalk ramps,
   pavement marking, signage, and pedestrian
   refuge islands midway across College
   Parkway
- A connection to Freshfield Lane has been provided.



#### **Additional Boardwalk**

- Located between Kimwood and Shore Acres, just east of initial boardwalk
- Limits disturbance to an area that will require further drainage improvements under a separate project
- Approximately 120' long



## **Alignment along AACC**

- Adjusted alignment to limit impact to campus
- Road crossings minimized



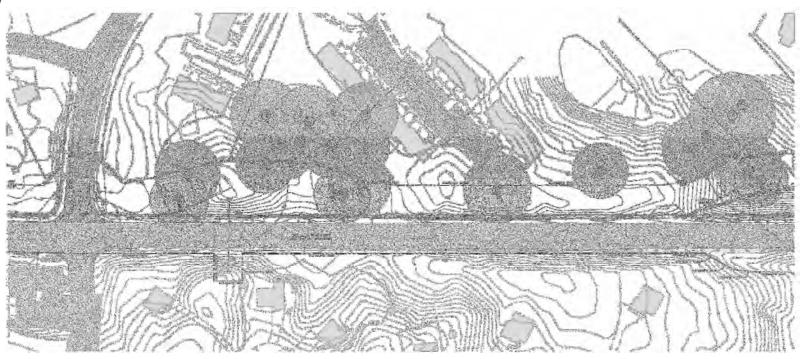
# **Tree Preservation**

#### **Design Process**

- 1. Site Inventory
- 2. Preliminary Alignment
- 3. Design Standards
- 4. Schematic Design
- 5. Design Development
- **6. Construction Documents**

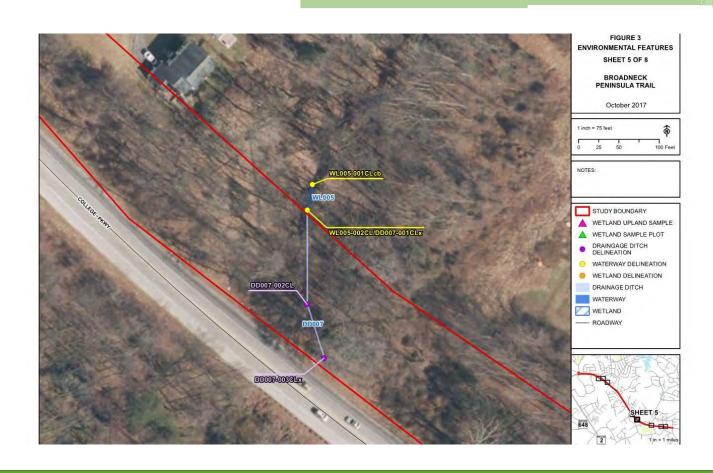
#### 1. Site Inventory

- Existing topography
- Existing Boundary
- Existing Utilities



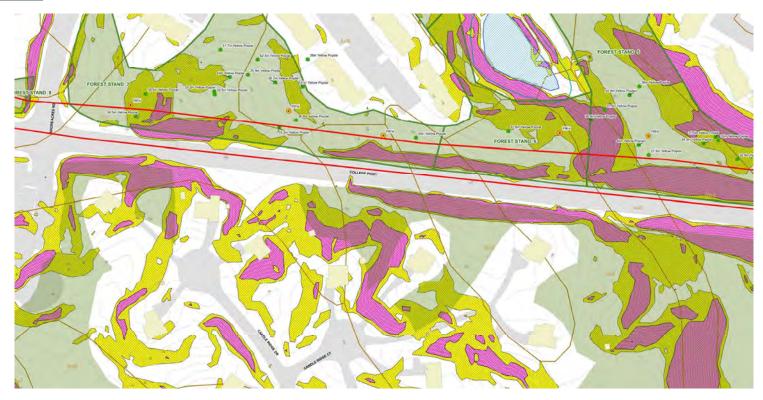
#### **Site Inventory**

• Wetlands and Streams



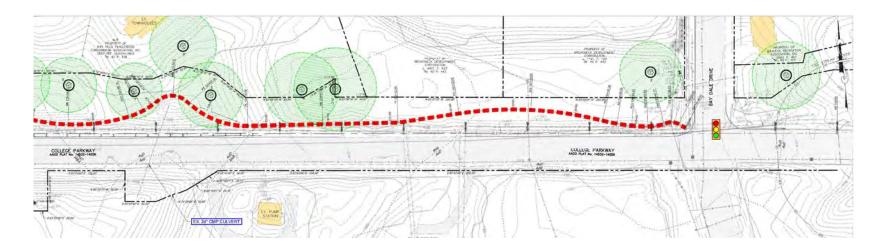
#### **Site Inventory**

- Wooded Areas
- Specimen Trees



#### 2. Preliminary Alignment

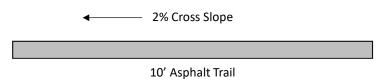
Site Inventory allowed a preliminary alignment to be established which showed a general location of the trail and features to be considered during design.

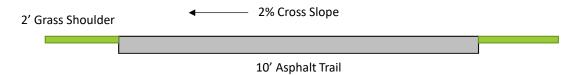


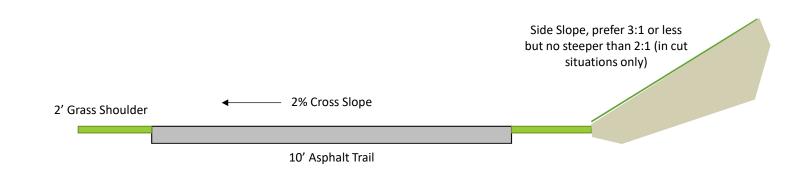
#### 3. Design Standards

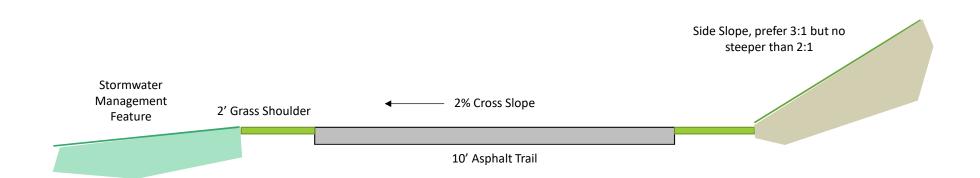
- Trail Width
- Trail Cross Slope
- Trail Shoulders
- Side Slopes
- Stormwater Management Requirements
- Walls
- Running Slope
- ADA compliance
- Forest Conservation and Wetlands

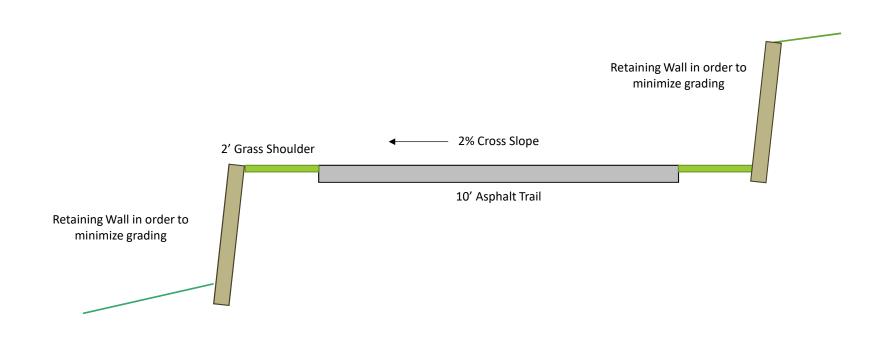
10' Asphalt Trail



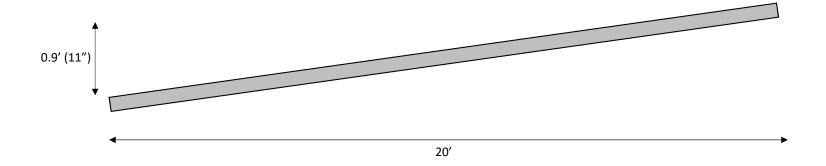








• Maximum running slope (4.5% or less)

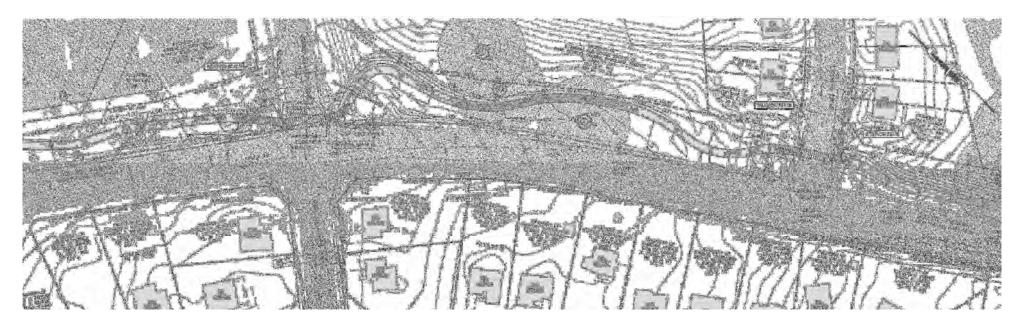


#### **Design Approach**

- Separate the trail from the road as much as possible.
- Minimize/eliminate wetland and stream impacts.
- Design trail to have as shallow a slope as possible
- Preserve specimen trees.
- Limit clearing to the minimum needed for trail and SWM construction.
- Limit work on steep slopes.
- Use of linear stormwater features.
- Limit cost and maintenance of stormwater management.

#### 4. Schematic Design

- Preliminary Site and Grading Plans
- Define footprint of trail and associated grading and clearing



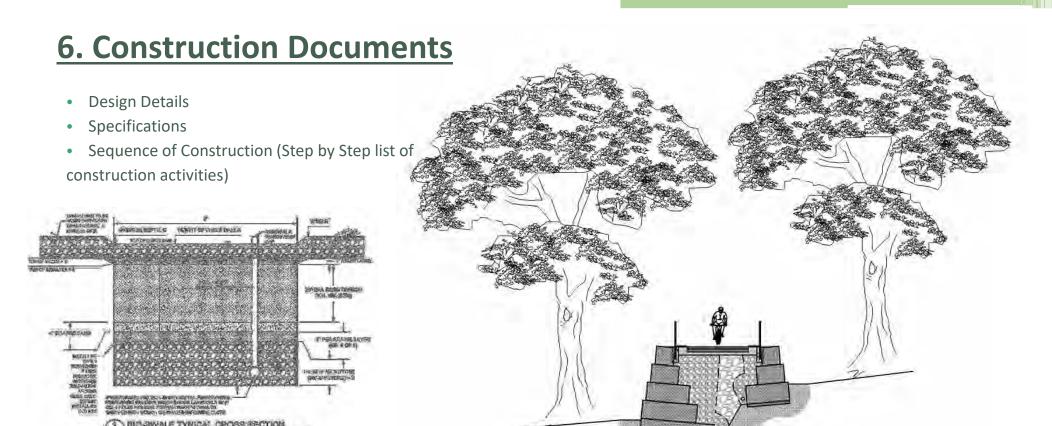
#### 5. Design Development

- Incorporation of walls and other features to limit clearing
- Refine and Finalize Stormwater Management Design
- Examples of walls and boardwalks (no lighting proposed with trail)



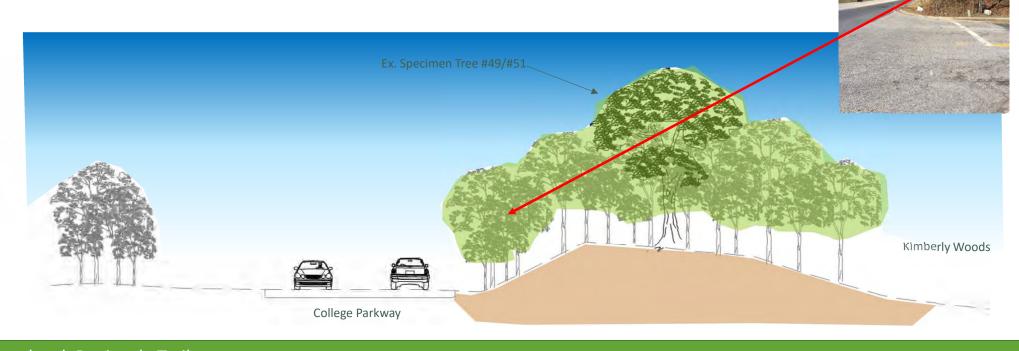


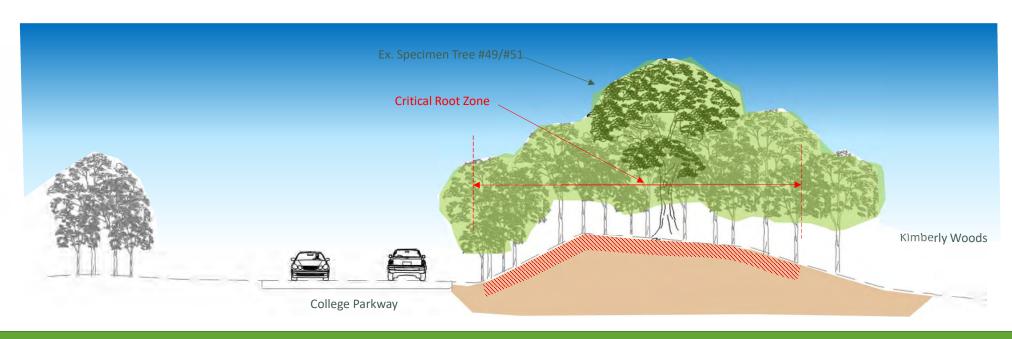


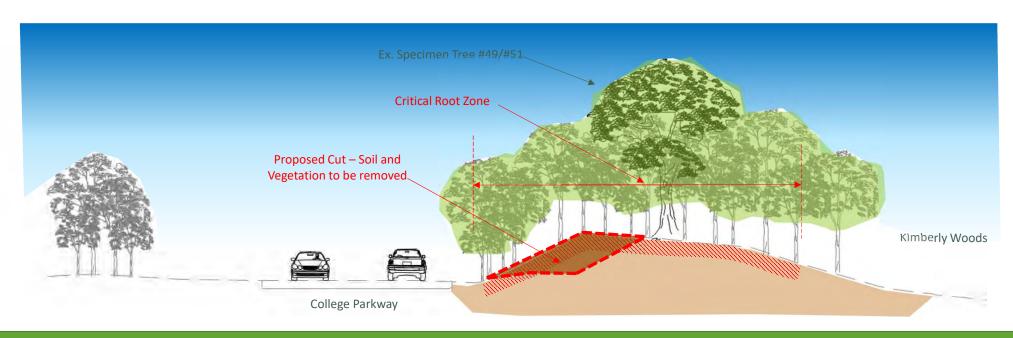


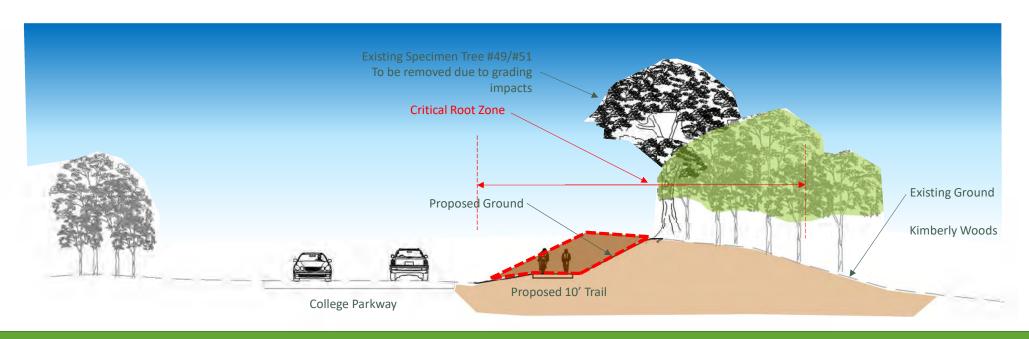


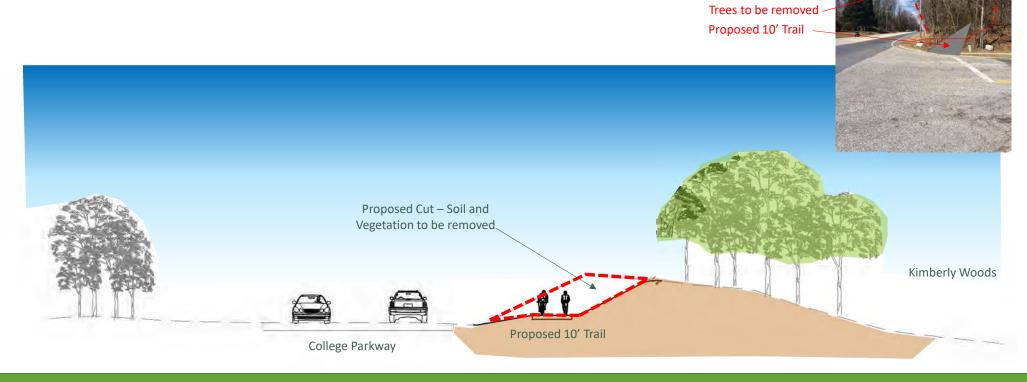










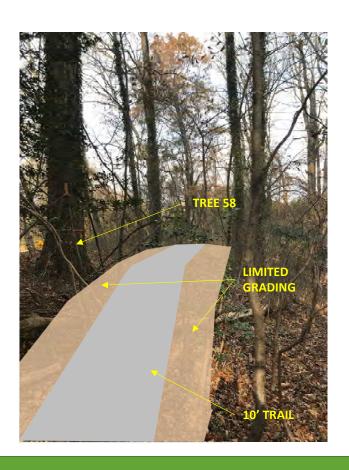












#### **Tree Preservation Approach**

- Detailed tree preservation plans around Specimen trees
- Root Pruning
- Structural soil









#### **Tree Preservation Approach**

- Use of air excavation equipment
- Underdrains for air and water
- Limiting heavy equipment within the critical root zone







# **Tree Preservation Examples**

Broadneck Trail Phase I







# **Tree Preservation Examples**







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# Questions?



