

Nathan Hale
Greenway



Public Information Meeting



January 18, 2017 - Coventry
&
January 25, 2017 - Bolton





Please complete
the Nathan Hale Greenway
Questionnaire!

(Paper & Electronic Versions available)

<https://www.surveymonkey.com/r/NathanHaleGreenway>

Meeting Agenda & Goals

Nathan Hale
Greenway



Agenda

- Brief Overview of Multi-Use Paths & Greenways
- Project Background and Goals
- Project Components and Process
- Initial Findings and Design Considerations
- Feedback / Q&A

Public Meeting Goals

- Provide Project Information
- Solicit Feedback
- Answer Questions
- Build Project Support

What is a Greenway?

Nathan Hale
Greenway



Corridors of protected open space managed for conservation and recreation purposes.

- Often follow natural land or water features
- Link reserves, parks, cultural features, historic sites with each other and with populated areas such as downtowns, neighborhoods, community centers and schools



Greenway Goals

Nathan Hale
Greenway



- Increase Community Health & Wellness
- Provide a safe experience for all users to enjoy the trail
- Provide Recreational Opportunities
- Promote Local Economy
- Preserve Cultural & Environmental Resources
- Enhance Sense of Community – “Sense of Place”
- Connectivity / Link points of interest
 - Environmental Resources
 - Cultural / Historic Resources
 - Open Spaces
 - Additional trail spurs that link points of interest
 - Scenic Vistas
- Educational Opportunities
 - Environmental Resources
 - Cultural Resources
 - Historical Resources



Greenway Benefits

Nathan Hale
Greenway



- Increased property value
- Strengthening local economy (tourism)
- Promote healthy living
- Improve air and water quality
- Transportation alternative - pedals and feet
- Hands on environmental classrooms
- Connects people and places



“ Trails and greenways provide what many Americans seek — close to-home recreational areas, community meeting places, historic preservation, educational experiences, natural landscapes and beautification. Both trails and greenways help communities build pride by ensuring that their neighborhoods are good places to live, so that children can safely walk or bike to a park, school, or to a neighbor’s home. Trails and greenways help make communities more attractive and friendly places to live. ” CT DEEP

Nathan Hale Greenway - Background

Nathan Hale
Greenway



History of the Project

- ConnDOT originally purchased land for the relocation of Route 6 in Bolton, Coventry, and Andover in 1986.
- When CTDOT abandoned the project it was decided to give most of the land that was purchased back to the Towns.
- The only condition was that this land needs to be utilized as “open space” and not sold.

Nathan Hale Greenway

Nathan Hale
Greenway



The proposed **Nathan Hale Greenway** will utilize a portion of the land purchased by the State to relocate Route 6. The ROW purchased from the State was transferred to the respective towns.

This trail will create further opportunities to link the Nathan Hale Greenway with the Hop River Trail / East Coast Greenway and would establish a recreational facility network of **such substantial magnitude** that it would attract users from outside the region, promoting local tourism.

Part of a Bigger Network

- East Coast Greenway
- Hop River Trail
- Charter Oak Greenway
- “Missing Link”
- Bolton Greenway Extension

National – East Coast Greenway

Nathan Hale
Greenway

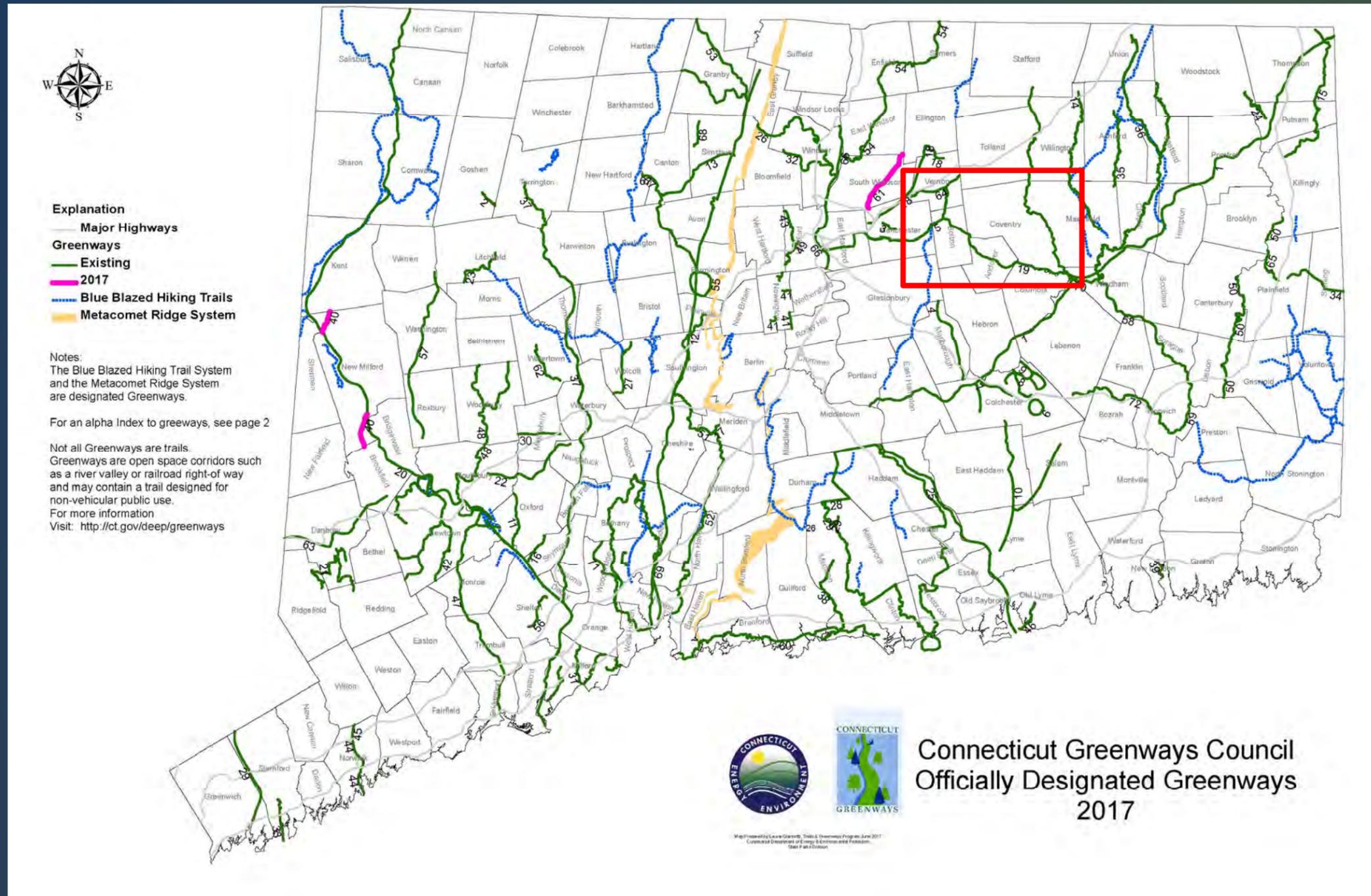


- **Bike Route from Maine to Florida**
- The **East Coast Greenway vision** is for a long-distance, urban, shared-use trail system linking 25 major cities along the Eastern Seaboard between Calais, Maine, and Key West, Florida.
- It will serve non-motorized users of **all abilities and ages**. A 2,900-mile long *spine route* will be accompanied by 2,000 miles of *complementary routes* that link in key cities, towns, and areas of natural beauty. This green travel corridor will provide cyclists, runners, walkers, and other active-transportation users with a low-impact way to explore the Eastern Seaboard.
- “In December 2017, our Greenway Council approved 22 new segments as official stretches of East Coast Greenway. The segments total nearly 40 miles and include pieces of trail in nine states, from half-mile additions in Connecticut and Massachusetts to an eight-mile stretch in Titusville, Florida.” *ECG website*



State – Connecticut Greenways

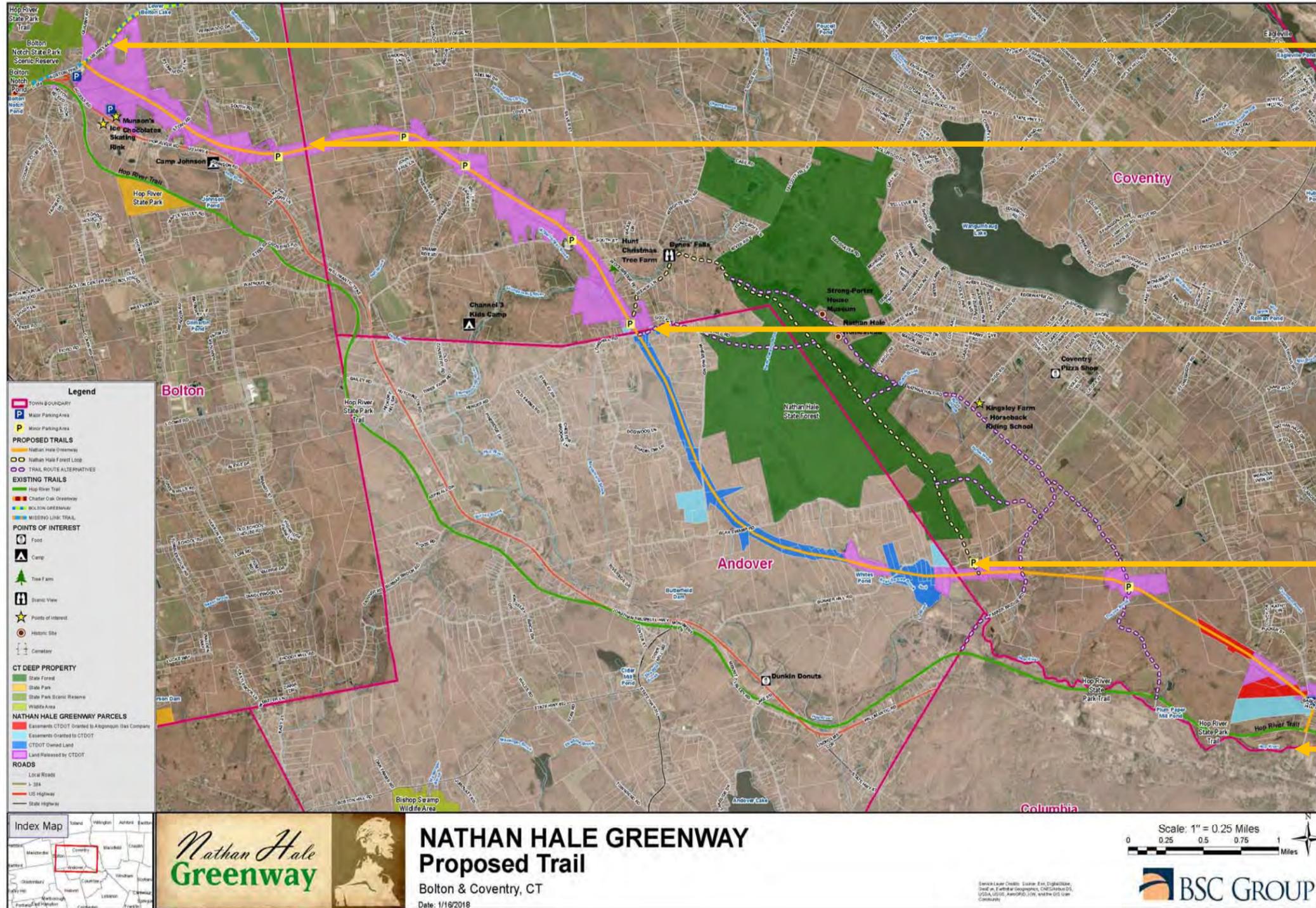
Nathan Hale
Greenway



Connecticut Greenways Map

Local – Project Limits

Nathan Hale
Greenway



Bolton

- 1.8 miles

Coventry – North

- 2.8 miles

Coventry – Nathan Hale Forest

- 2.4 miles

Coventry – South

- 3.3 miles



Goals of the Nathan Hale Greenway Study

Nathan Hale
Greenway

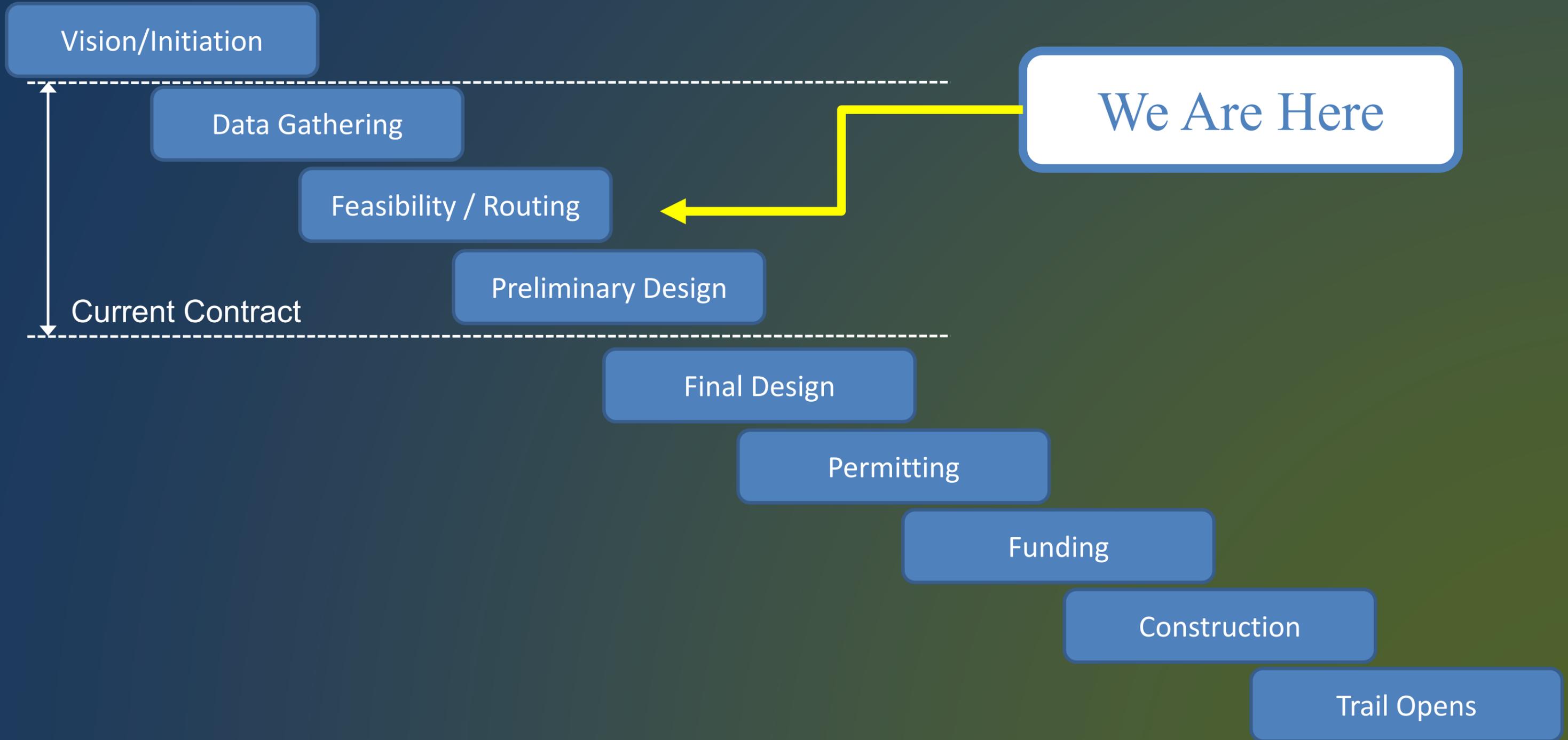


- Establish existing conditions / base mapping
- Determine likely right-of-way needs and impacts
- Determine likely environmental impacts
- Estimate construction costs
- Link points of interest
 - Scenic Views / Vistas
 - Provide Educational Opportunities for Cultural / Historical / Environmental Resources
- Establish a preferred route alignment for the Trail
- Provide concept plans and drawings
- Facilitate the ability to pursue and obtain funding

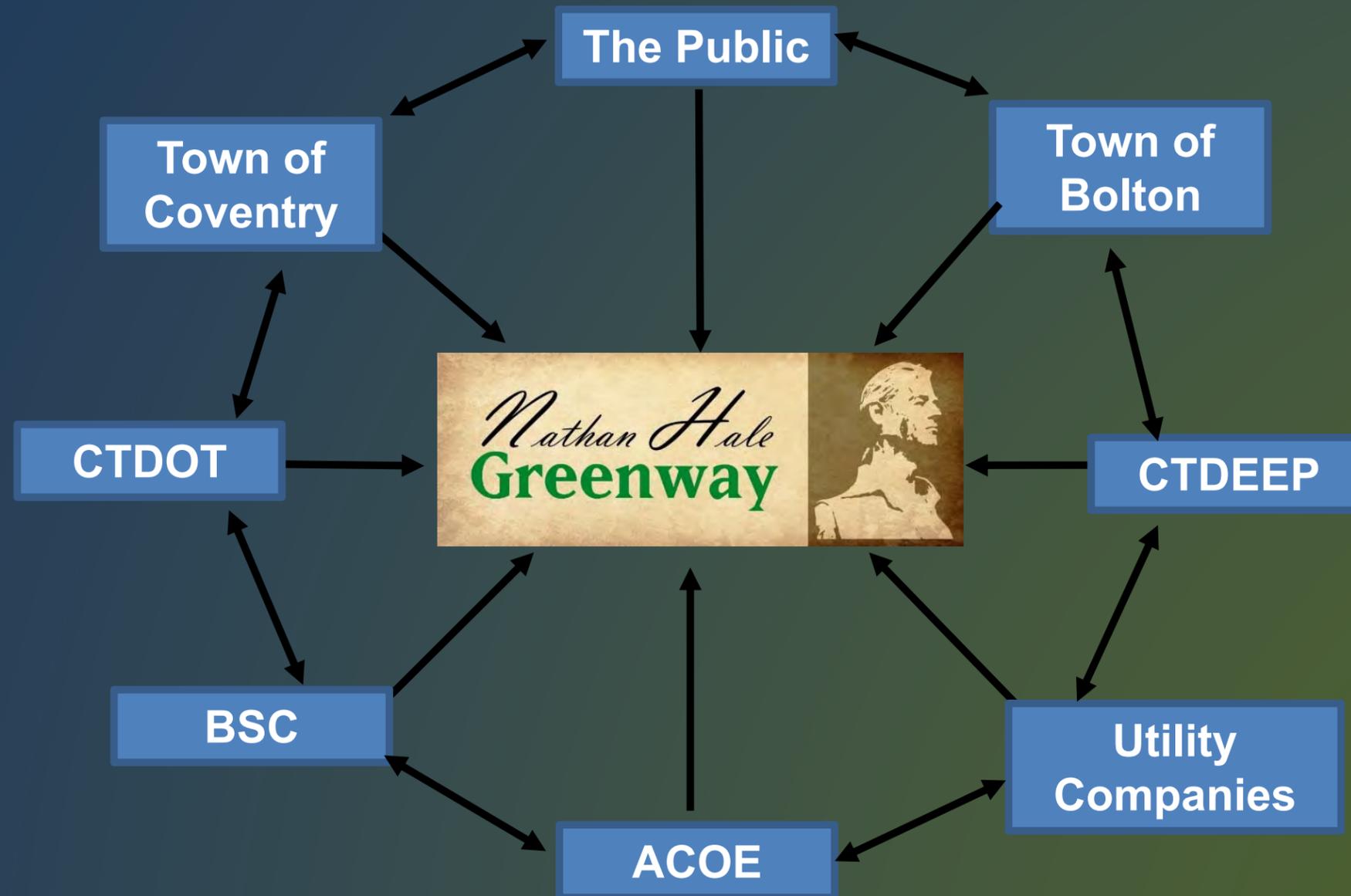


Project Process

Nathan Hale
Greenway



Project Stakeholders



Project Approach

Nathan Hale
Greenway



Data Gathering

- Analyze existing plans / Compile GIS
- Investigate and review existing conditions and possible routes
- Perform a site walk along the entire corridor / GPS Data collection

Feasibility / Routing Study

- Analyze practicability of potential routes / Prepare Initial Layout Plans
- Perform an opportunities and constraints analysis
- Determine amenities (kiosks, benches, signs, bike racks, trash cans)
- Define a preferred route based on constraints and input from the community

Preliminary Design

- Survey as required
- Prepare Preliminary Design Plans
- Provide a Cost Estimate

Project Approach

Nathan Hale
Greenway



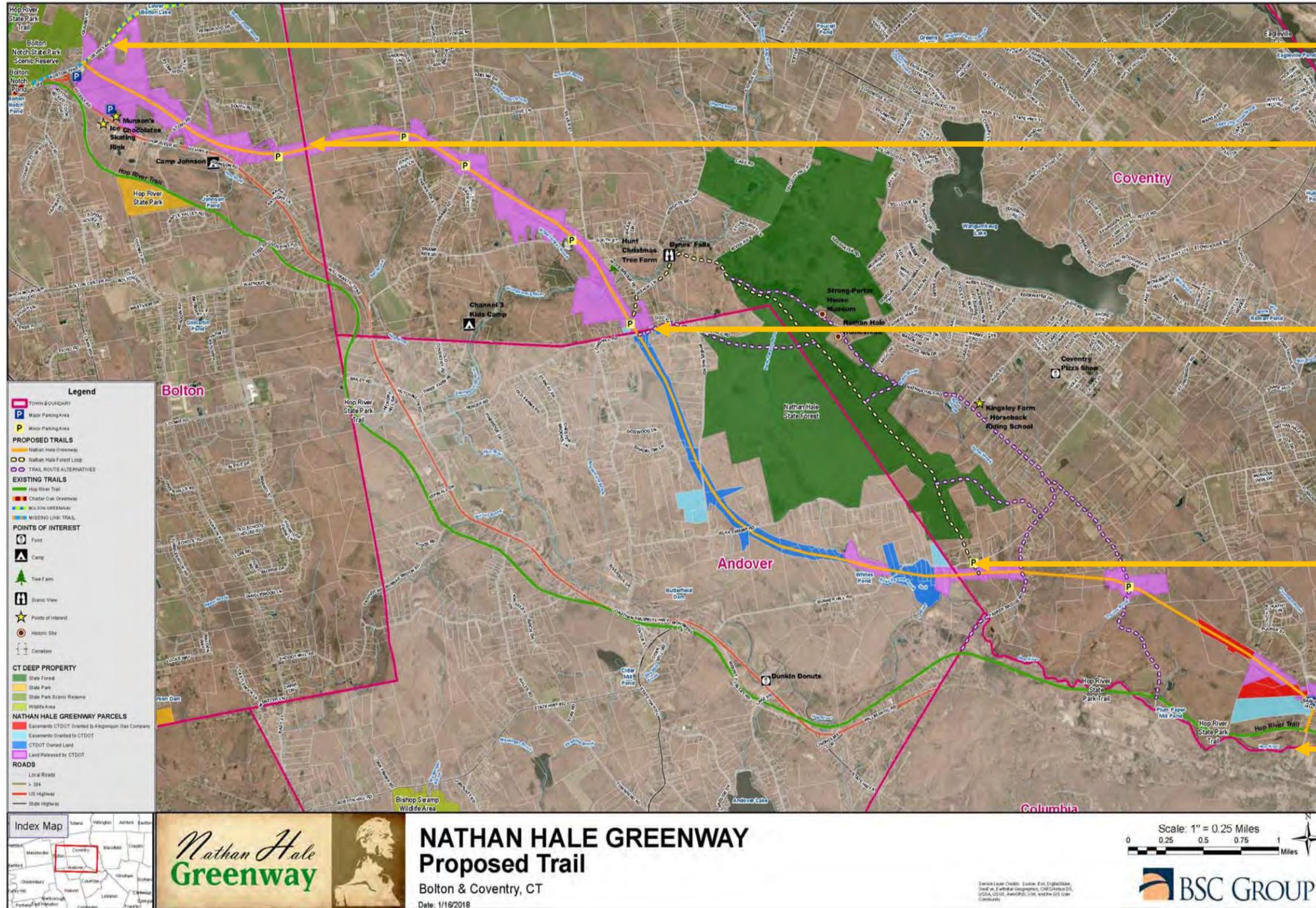
Site Walk / GPS Data collection

- Real time data collection
- Cloud based / Shareable
- Identify & Record:
 - Historic and natural resources
 - Points of interest
 - Existing trails
 - Points of potential conflict



Local – Project Limits

Nathan Hale
Greenway



Bolton

- 1.8 miles – Off-Road
- 2 segments

Coventry – North

- 2.8 miles – Off-Road
- 4 Segments

Coventry – Nathan Hale Forest

- 2.4 miles
- Route TBD
- Mix of Off & On Road

Coventry – South

- 3.3 miles – Off-Road
- 2 Segments



Route Selection Criteria

Nathan Hale
Greenway



- ↓ Construction Cost
- ↓ Constructability
- ↓ Right of Way Concerns
- ↓ Environmental Constraints
- ↓ Potential Permitting Impacts
- ↓ Stakeholder Concerns
- ↓ Public Concerns
- ↑ Cultural and Natural Resources
- ↑ Recreational Opportunities
- ↑ Scenic Value
- ↑ Accessibility
- ↑ Proximity to Points of Interest
 - Inside corridor
 - Within close proximity
- ↑ Safety
- ↑ Security

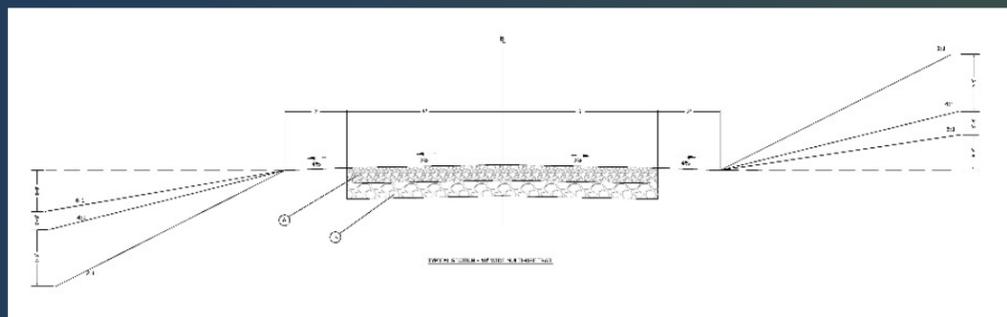
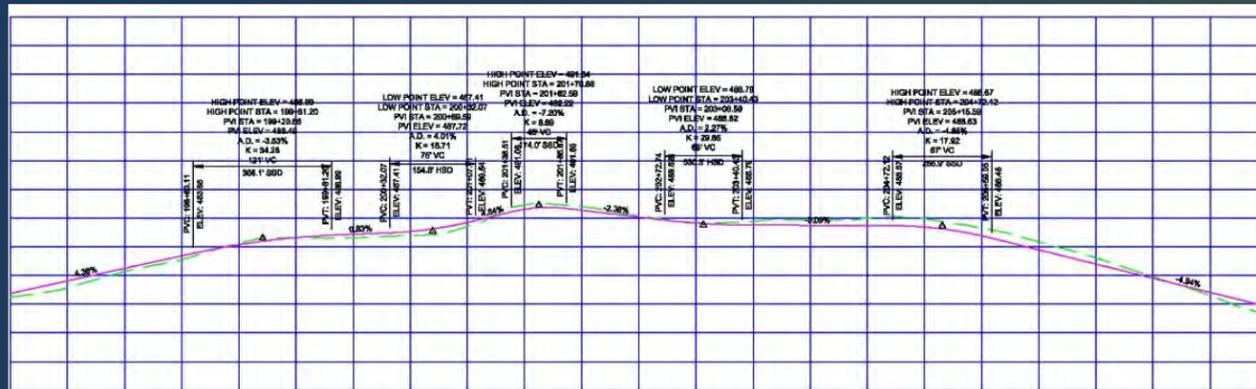
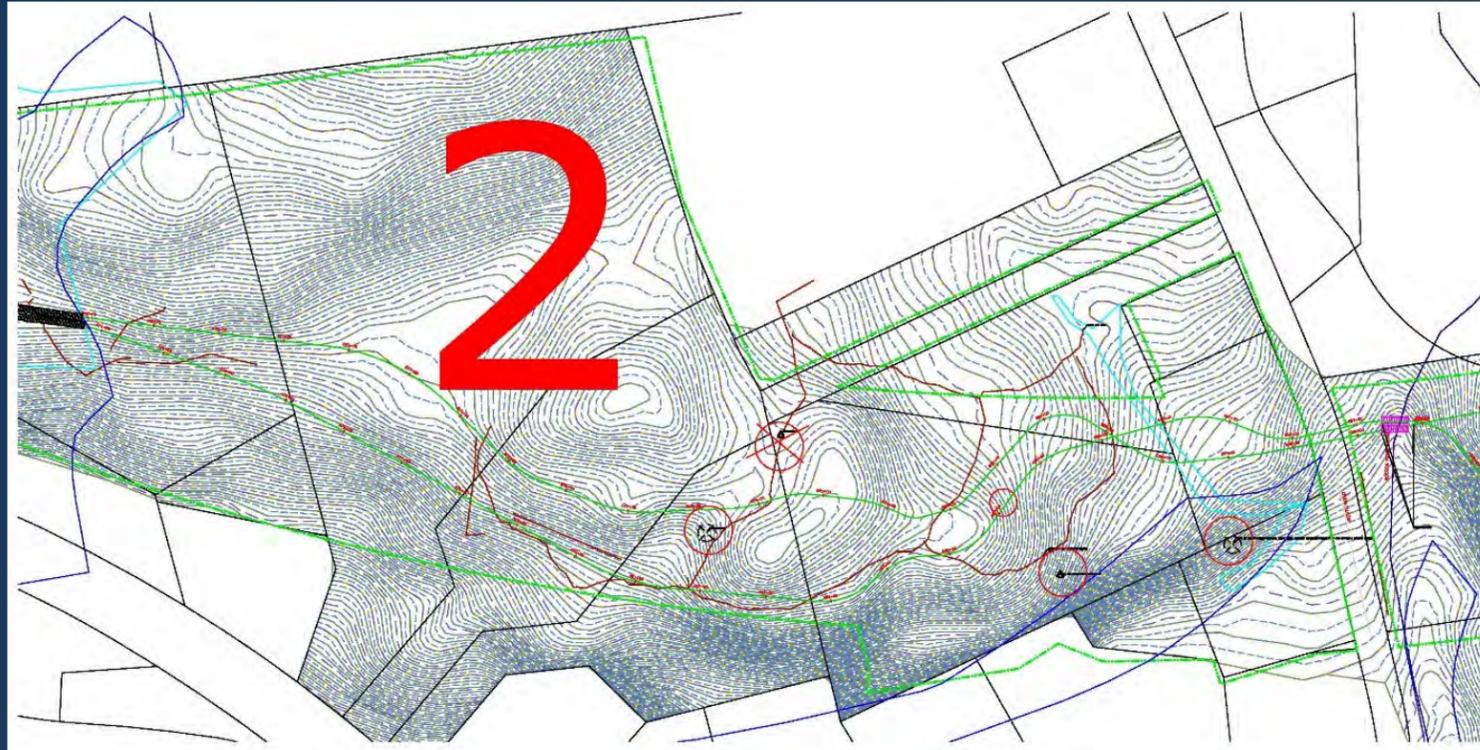
Route Selection

Nathan Hale
Greenway



- Unique Project since the corridor is predefined
 - It is the most Feasible Alternative!
- Determination of segments to aid in analysis
- Review of Points of Interest or Constraint within each Segment
- Determine alignment alternatives within corridor
 - Challenging topography
 - Balancing environmental impacts with scenic value
- Determine construction costs

Route Selection



Bolton

- 1.8 miles – Off-Road
- 2 segments

Coventry – North

- 2.8 miles – Off-Road
- 4 Segments

Coventry – Nathan Hale Forest

- 2.4 miles
- Route TBD
- Mix of Off & On Road

Coventry – South

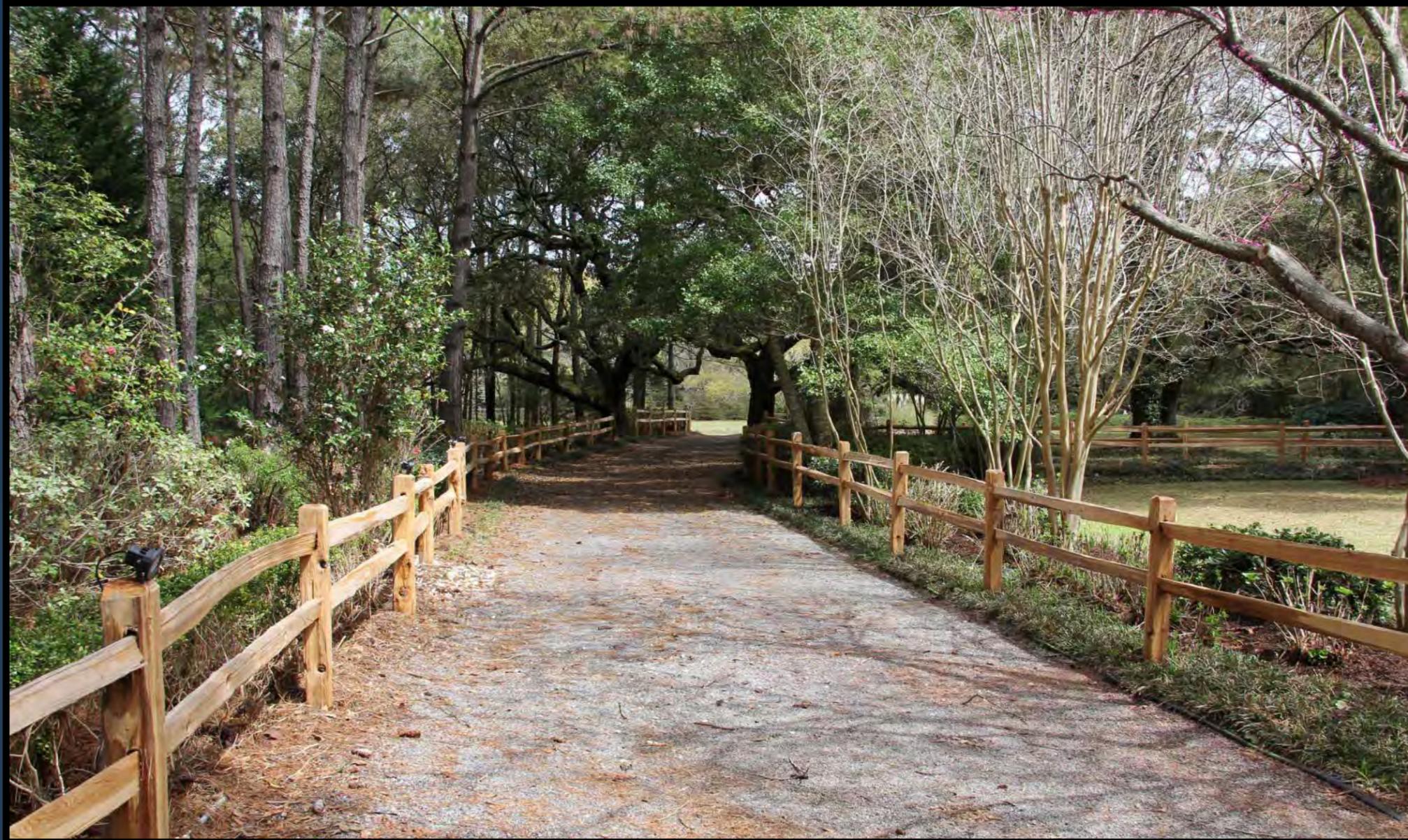
- 3.3 miles – Off-Road
- 2 Segments

Project Corridor

Nathan Hale
Greenway

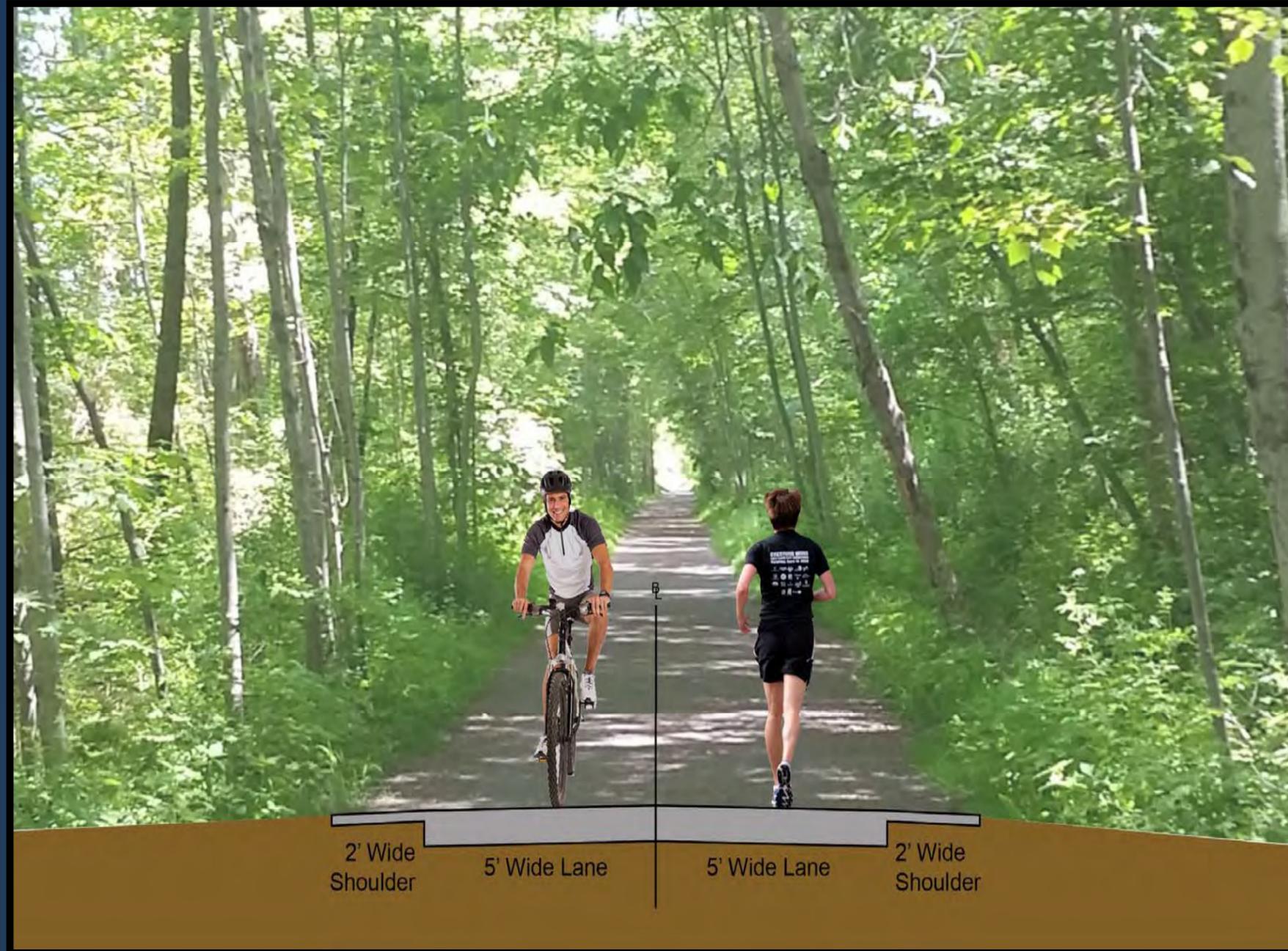


Establishing Corridor Theme & Texture



Off-Road Option

Nathan Hale
Greenway



2' Wide
Shoulder

5' Wide Lane

5' Wide Lane

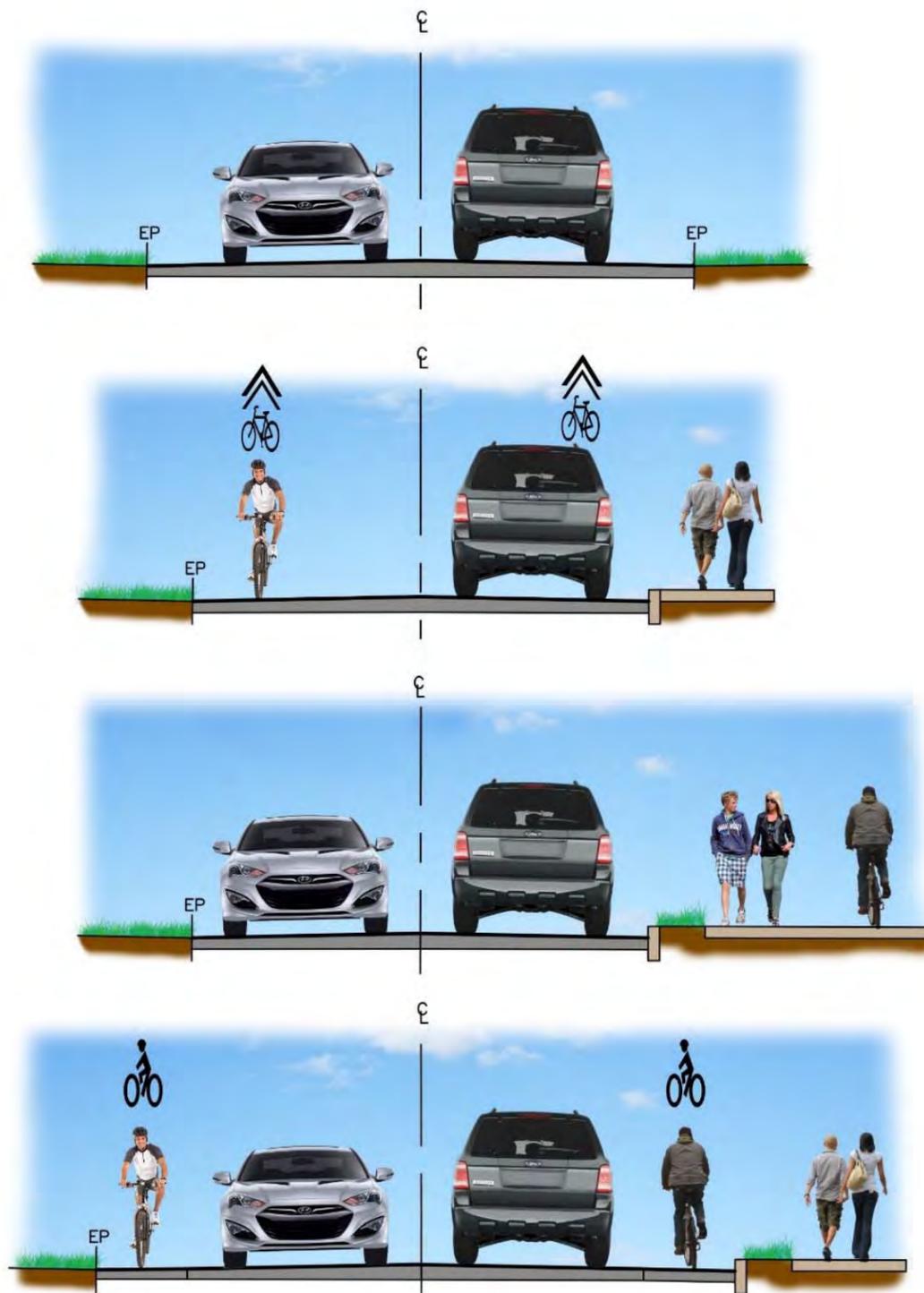
2' Wide
Shoulder

- Similar to Hop River Trail & Airline Trail
- Approximate Cost:
\$350,000 / mile
to
\$500,000 / mile

On-Road Options



Increasing
Cost /
Increasing
ROW
Impacts



Existing Road

Option 1

Bike - Shared Road

Pedestrian - Bituminous Sidewalk

Option 2

Bike & Pedestrian – Shared Use Side Path

Option 3

Bike – Road Widening / Dedicated Bike Lane

Pedestrian - Bituminous Sidewalk

On-Road Options

Nathan Hale
Greenway



Shared Lanes

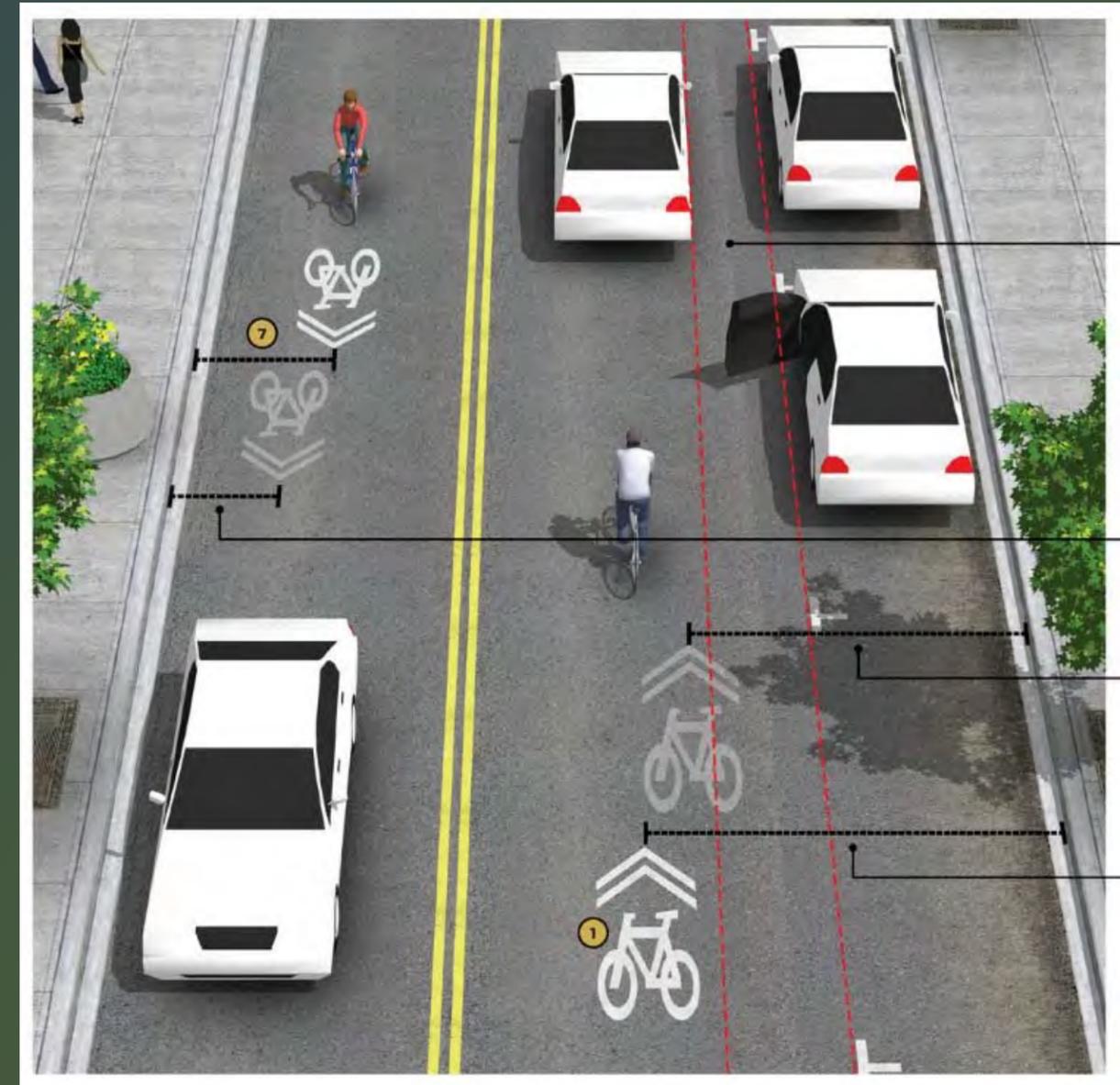
- Bike may be operated on all roadways except where prohibited by statute.
- There are no bicycle specific designs for shared roadways but various features can make shared lanes more compatible for bicycling.

Shared Lane Marking – “Sharrows”

- The shared lane marking is not a facility type, it is a pavement marking with a variety of uses to support a complete bikeway network.
- Not appropriate on roads with speeds over 35 mph

Benefits

- Road markings used to indicate a shared lane environment for bicycles and automobiles.
- Reinforce the legitimacy of bicycle traffic on the street,
- Recommend proper bicyclist positioning
- May be configured to offer directional and wayfinding guidance.



On-Road Options

Nathan Hale
Greenway



Conventional Bike Lane

- Bike lanes are most helpful on streets with $\geq 3,000$ motor vehicle average daily traffic.
- Bike lanes are most helpful on streets with a posted speed ≥ 25 mph.
- Designated for Bike Use Only – Bike Travel Lane - No Parking Allowed

Conventional Bike Lane Benefits

- Increases bicyclist comfort and confidence on busy streets.
- Creates separation between bicyclists and automobiles.
- Increases predictability of bicyclist and motorist positioning and interaction.
- Visually reminds motorists of bicyclists' right to the street.



On-Road Options

Nathan Hale
Greenway



Shared Use Side Path

- Minimum 10' wide path recommended
- Minimum 5' separation distance recommended
- Minimum 2' lateral offset from obstacles (e.g. mailboxes, utility poles)
- Maintain consistent path width and features
- Follow existing road alignment



On-Road – Potential Roadways

Nathan Hale
Greenway



Nathan Hale Road



Bunker Hill Road

Access & Safety

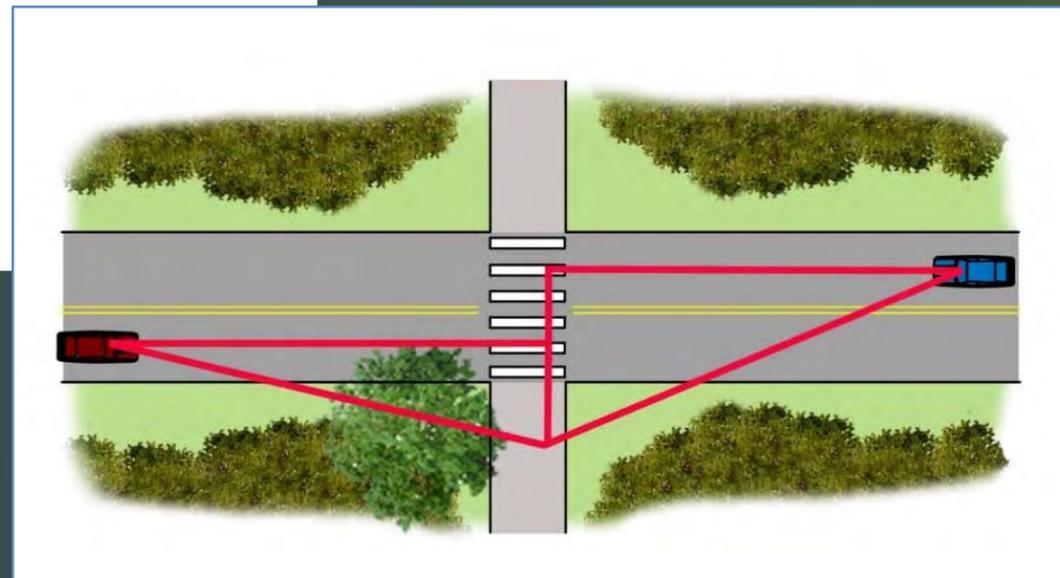
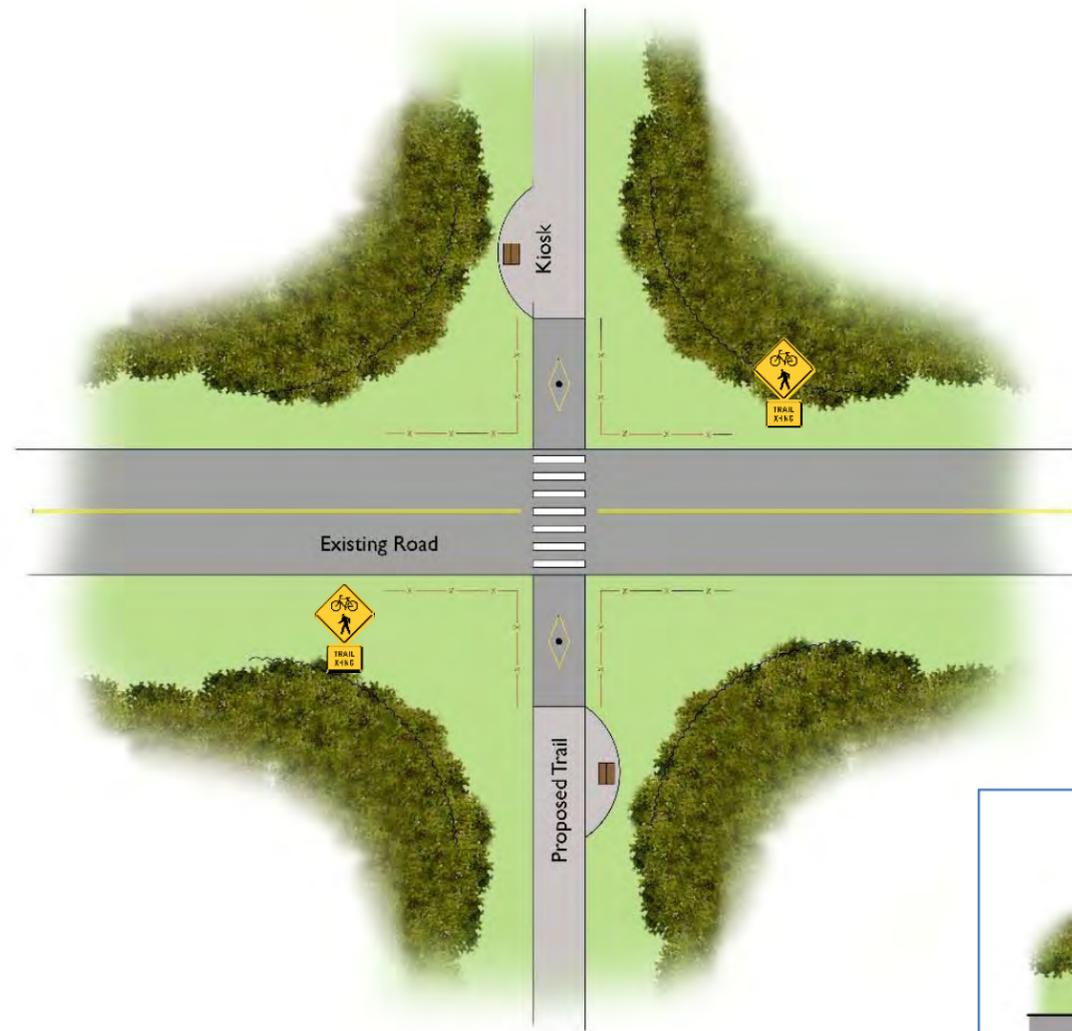


- Coordination with Fire, Police, & Maintenance to understand protocols and access needs for equipment
- Mix of Off-Road & On-Road Facilities
- Pavement Markings, Signage, Pedestrian Activated Signals
- Need for Rail / Fencing



Typical Trail / Roadway Crossing

Nathan Hale
Greenway



Typical Trail / Roadway Crossing



Trailhead – Major

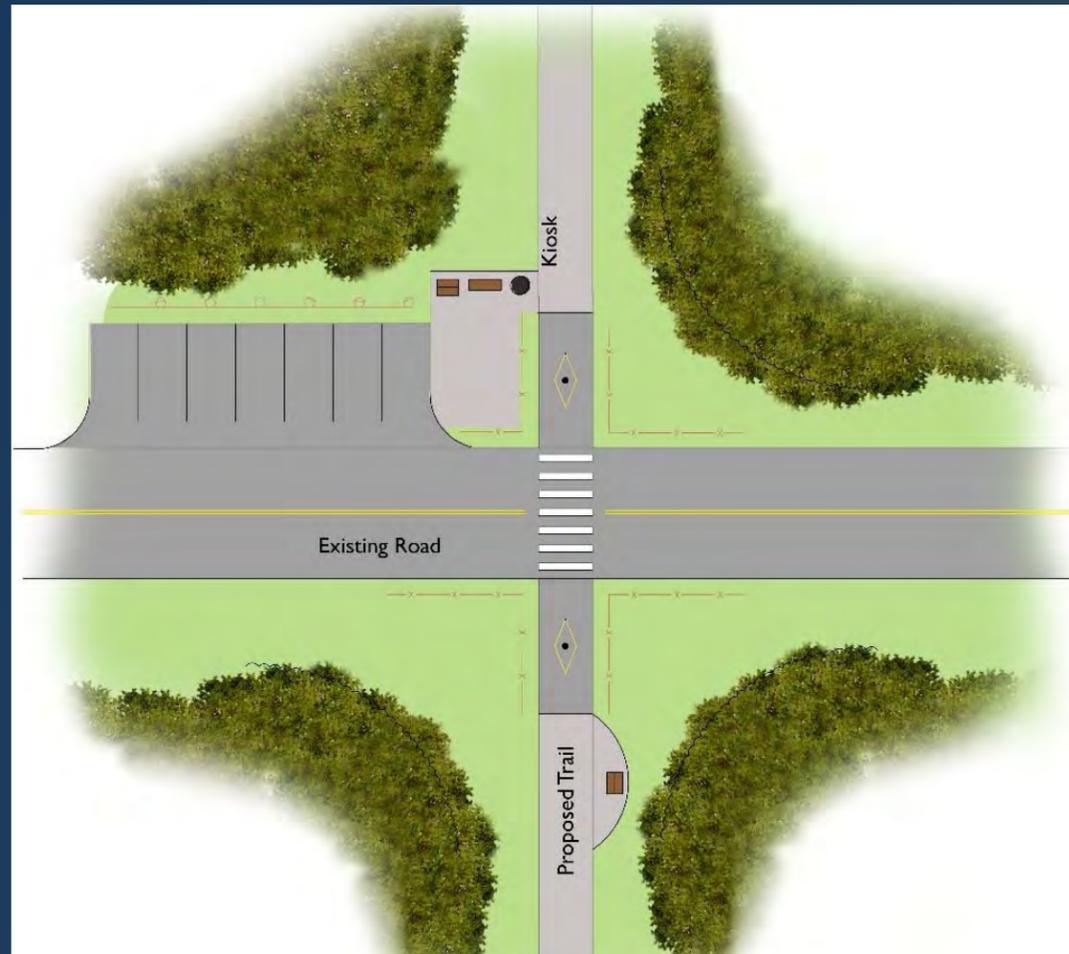


Potential Locations

- Route 44 – Connection to Missing Link / Hop River Trail
- Route 6 - Vicinity of Munson's Chocolate
- Nathan Hale Forest - TBD
- Pucker Street – Connection to Hop River Trail

- 10+ Parking Spaces
- Dedicated drive
- Gathering location / destination
- May include additional amenities such as picnic area

Trailhead – Minor



Potential Locations

- South Road
- Brewster Street
- Swamp Road
- South Street
- Woodbridge Road
- Bunker Hill Road
- Hop River Road

- 3-6 Parking Spaces
- Pull-in Parking
- Convenient access
- Limited amenities

Trailhead

Nathan Hale
Greenway

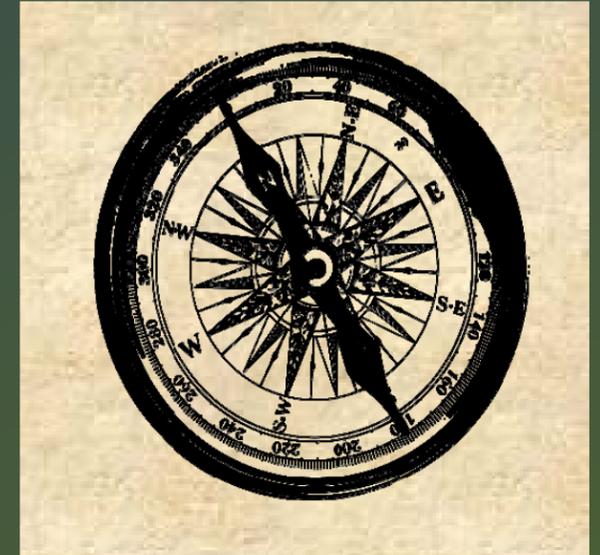
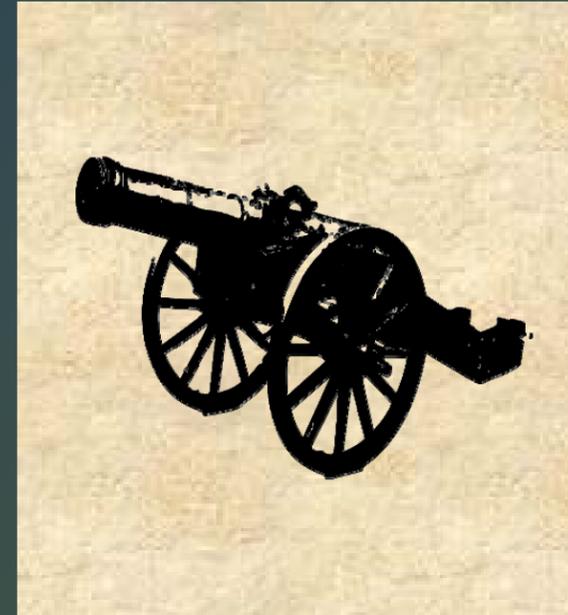


Greenway Branding / Logo Options

Nathan Hale
Greenway



Nathan Hale
Greenway



Nathan Hale
Greenway



Nathan Hale
Greenway



Enhancements and Amenities

Nathan Hale
Greenway



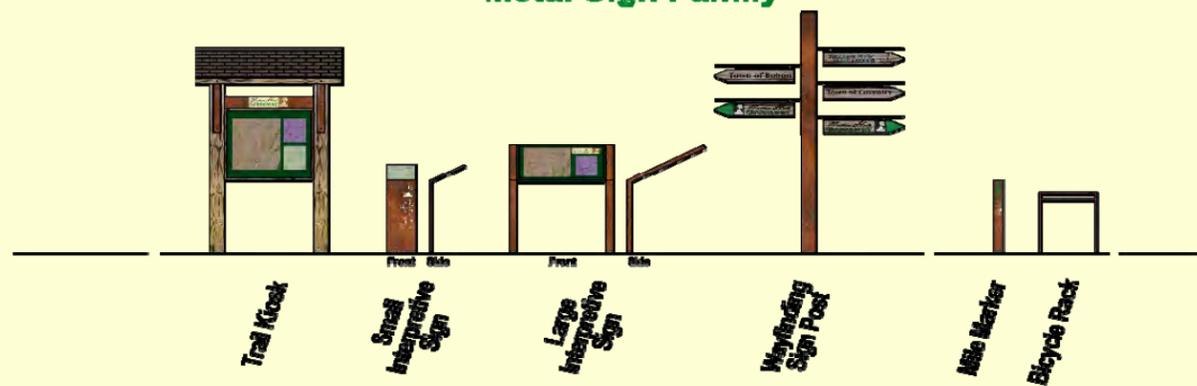
- Benches
- Bike racks
- Bike repair stations
- Gates
- Trash and recycling
- Interpretive signing
- Informational kiosks
- Wayfinding
- Docks
- Landscaping
- Trailheads
- Parking areas
- Seating nodes
- Corridor consistency for ease of maintenance

Wayfinding Options

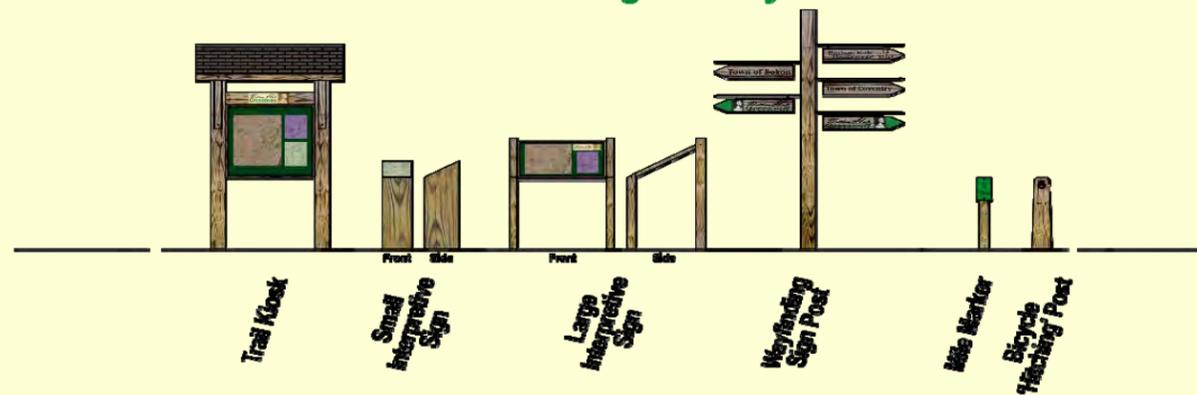
Nathan Hale
Greenway



Metal Sign Family



Wood Sign Family



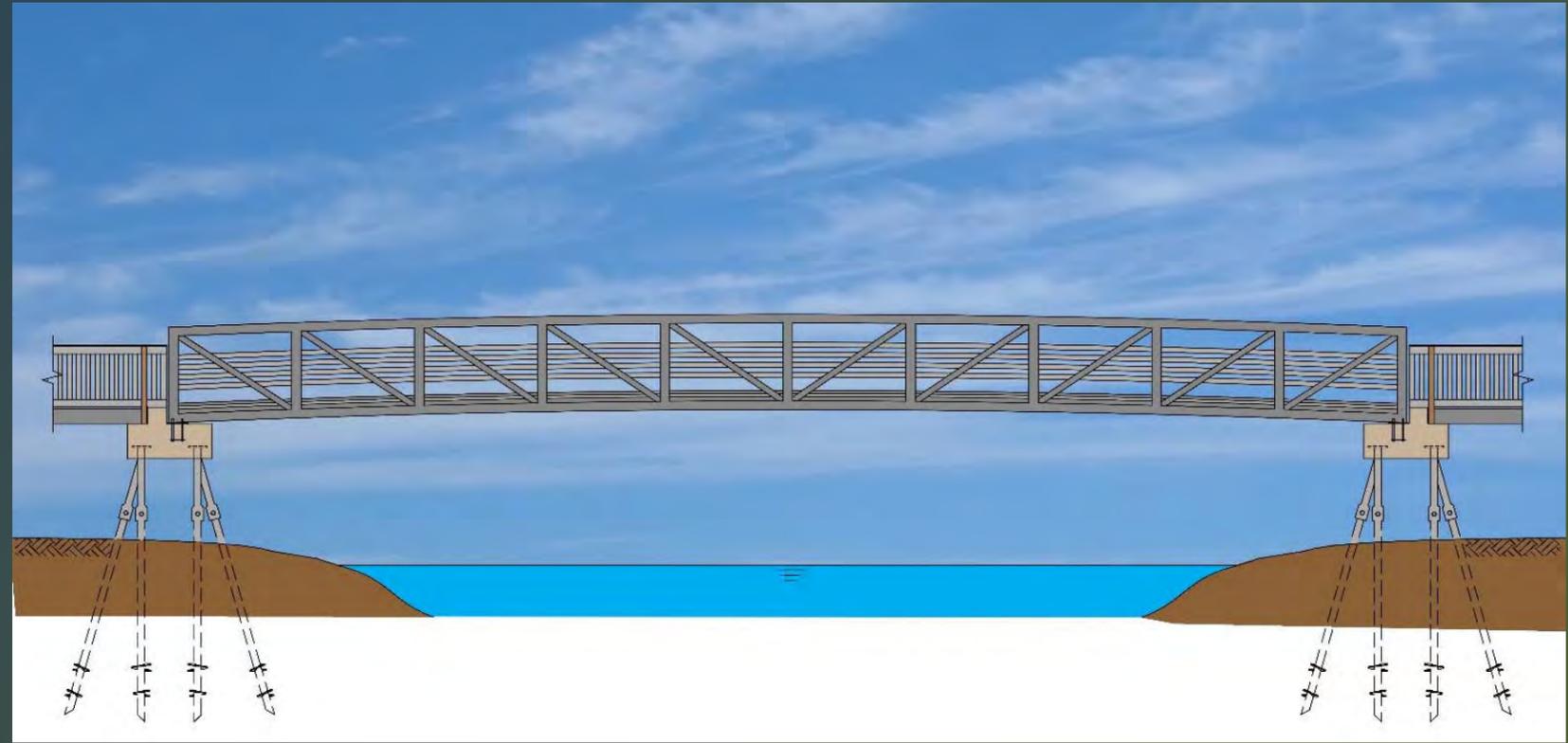
Informational/Educational Signing

Nathan Hale
Greenway



Water & Wetland Crossings

Nathan Hale
Greenway



Stone Walls & Split Rail Fences

Nathan Hale
Greenway





Feedback / Question & Answer



Thank You!

E-mail:

NathanHaleGreenway@bscgroup.com