Central Ohio Greenways Board Meeting
Wednesday, July 21, 2021
1:30pm – 3:00pm
Microsoft Teams Meeting

1. **Welcome & Introductions** – Letty Schamp, COG Chair

2. **Legislative Updates** – Joe Garrity

3. **RAISE** – Melinda Vonstein & Stephen Patchan

4. **Easton Fellow Project Reviews** – Easton Fellows

5. **MORPC Program Updates**
   a. Rapid 5

6. **Working Group Reports**
   a. Trail Development – Laura Ball, Working Group Chair
      i. Trail Count Program
      ii. Urban Greenway Design Guide
   b. Marketing & Communications – Adrienne Joly, Working Group Co-Chair
      i. Trail Town Project
      ii. Passport Program
   c. Operations & Access - Catherine Girves, Working Group Chair
      i. Easton Trail Head
      ii. Outreach Guidelines
   d. Partnership – Bill Habig, Working Group Chair
      i. Economic Impacts of Trails

7. **Other Business and Closing**

Next Meeting
September 22, 2021 | 2:00 – 3:00
Gahanna Multiuse Trials Review

PRINCE KWARTENG-CROOKLYNN
JULY 21, 2021
Introduction

- Easton Future Vision Fellow
- School: The Ohio State University (Knowlton School)
- Program: City and Regional Planning (Grad. Level)
- Host Community: City of Gahanna
- Project: Multiuse Trails Review
Multiuse Trails Review

- Prioritization of the trails
- Proposed trails: 15 segments
- Methods:
  1. Prioritization
     - Criteria
       (Safety, Connectivity, Equity, Health & Environment, and Public input)
2. Public engagement
   ▶ Gahanna Citywide Online Survey
   ▶ Focus groups (City of Gahanna and Bike and Trails Advisory Committee)
Why do you use the trail?

- I don’t use the trails: 2%
- Planned parks and recreation programs: 12%
- Transportation: 19%
- Recreation: 75%
- Exercise/Health: 91%

If you don’t use any of the trails mentioned above, what discourages you from using them? (Check all that apply)

- There is no access point available: 18%
- Unsure of how to access the trail: 42%
- Not located in a convenient location: 60%
- Unsecure, Not safe: 13%
- Difficult to navigate: 5%
Which areas would you like to see expansion of our future trail network? Please kindly refer to the map above.

Area A: 35%
Area B: 7%
Area C: 21%
Area D: 12%
Area E: 22%
Area F: 3%

Are there adjacent communities you would like our trails to be connected to? (Check all that apply)

- Easton: 37%
- Westerville: 26%
- New Albany: 26%
- Whitehall: 5%
- Blacklick/Jefferson Twp: 6%
Multiuse Trails Review....Cont’d

Economic & Health Impact Assessment

Programming
Thank you!
Easton Trail Town Project
Project Scope and Deliverables

• **Guidebook for implementing Trail Town practices at Easton**
  • Partnerships
  • Assessment and Research
  • Connection to the Trail
  • Marketing
  • Development

• **Other Marketing Deliverables**
  • Passport program toolkit
  • Toolkit for a tactical urbanism event
Partnerships

• Guidance on establishing partnerships to support the Trail Town initiative
  • Wide range of groups in and around Easton including cycling groups, community groups, advocacy groups, businesses, etc.
• Establish a network of Trail Town certified businesses
• Create an Easton Trail Town task force who will be responsible for community engagement and implementation
Assessment and Research

Research on existing conditions in and around Easton

- Existing infrastructure and bike facilities
- Information on surrounding communities

Guidance for conducting further assessment

- Community feedback and focus groups
- Business surveys
Guidance on creating both a physical and cultural connection to the trail

- Basic supportive infrastructure
- Major infrastructure and bike facilities
- Public art and other cultural connections
- Sustainable features
- Separated into short-, medium-, and long-term recommendations
Marketing

Branding
Print materials
Digital promotion
Events and outreach
  • Event recommendations
  • Passport program
  • Tactical urbanism event
Development

• Recommendations on how future development at Easton can better meet trail users’ needs
  • Emphasis on how development can be more equitable and meet the needs of the broader community, not only Easton visitors

• Considerations for creating benchmarks to evaluate the success of the Trail town initiative at Easton
  • Benchmarks should be guided by community feedback

• Funding sources for development, particularly bike facilities
MULTI-USE PATH IN CITY OF WHITEHALL
Propose trail routes
Connect Whitehall Community Park to the rest of the community
Create designated route for pedestrians and cyclists
Connect to regional trail network
The existing trails in the community are not connected.
COMMUNITY ENGAGEMENT

BARRIERS TO REGIONAL PARK SYSTEM

- Lack of transportation options
- Safety
- Proximity to home or work
- Lack of amenities
SUGGESTIONS TO ENHANCE PARK VISITS AND TRAILS

- Designated sidewalks/bike lanes
- Connecting paths leading to parks
- Linking parks and trails to regional trails
PROPOSED TRAILS
<table>
<thead>
<tr>
<th>SEGMENT ID</th>
<th>SEGMENT</th>
<th>LENGTH</th>
<th>ESTIMATE $500,000 Mile Per</th>
<th>PROJECT COST</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-B</td>
<td>Community Park through Poth Rd to Defense Supply Center</td>
<td>+/-2.1m</td>
<td>1,050,000</td>
<td></td>
</tr>
<tr>
<td>B-C</td>
<td>East Broad to Whitehall Community Park</td>
<td>+/-117ft</td>
<td>11,079.55</td>
<td></td>
</tr>
<tr>
<td>C-D</td>
<td>Community Park through Poth Rd to Defense Supply Center</td>
<td>+/-1.33m</td>
<td>665,000</td>
<td></td>
</tr>
<tr>
<td>D-E</td>
<td>Defense Center to 5th Ave</td>
<td>+/-1817ft</td>
<td>172,064.40</td>
<td></td>
</tr>
<tr>
<td>D-H</td>
<td>North Yearling to Defense Center</td>
<td>+/-2576ft</td>
<td>243,939.40</td>
<td></td>
</tr>
<tr>
<td>F-G</td>
<td>Poth Rd through East Broad, along Fairway Boulevard to East Main Street</td>
<td>+/-2.5m</td>
<td>1,250,000</td>
<td>3,392,083</td>
</tr>
</tbody>
</table>
The proposed routes will connect to businesses and shopping centers and residential areas.
The project will improve safety by providing a continuous off-street or low volume on-street route alternative for bicyclists and pedestrians to reduce potential for crashes.
Help improve physical activity
30.6% of Whitehall residents are obese.
https://livabilityindex.aarp.org/search#Whitehall+OH+USA
Promote active lifestyle
Improve personal health
Improve public health
It will ensure that all residents have other transportation options available to them.

15.8% of households without vehicles will be able to access jobs and businesses via trails.

Thank you
JANCO SWART
EASTON FUTURE VISION FELLOW
Food Forest Project Update
SUCCESSFUL MODELS

Beacon Food Forest
Seattle, WA

Festival Beach Food Forest
Austin, TX

Philadelphia Orchard Project
Philadelphia, PA

Bloomington Community Orchard
Bloomington, IN

Basalt Food Park
Basalt, CO

Food Forest Layers
- Canopy Layer: Tall trees and other forest trees provide food, shelter, and habitat for birds, insects, and other organisms. Smaller trees, shrubs, and vines can also provide food and habitat for some organisms, as well as plants that provide nutrients back to the soil.
- Understory Layer: Deciduous and shade-tolerant trees such as beech, poplar, and maple.
- Shrub Layer: Shrubbery, flowering, woody, and herbaceous plants that provide food and habitat for some organisms.
- Herbaceous Layer: Flowers, vegetables, and culinary medicinal herbs such as garlic, mint, and dandelions. The presence of these plants can attract pollinators and benefit soil health.
- Root Layer: Shallow roots of forest trees and other plants provide food for smaller organisms, including insects and soil animals.
- Fungal Layer: Fungi and mycorrhizal roots break down dead organic matter and feed on the nutrients released.
- Ground-Cover Layer: Ground cover is essential for erosion control and weed suppression. This layer protects the subsoil and helps retain moisture.
- Vine Layer: Vines, such as Passion Flower, can climb up trees and branches, providing food, medicine, and habitat.

FOOD FORESTS REPLICATE AN EXISTING NATURAL ECOSYSTEM, WHILE CREATING SPACE FOR COMMUNITIES TO PARTICIPATE AND LEARN ABOUT THE ABUNDANCE OF THEIR BIODIVERSE, NATURAL ENVIRONMENT.
THREE CORE COMPONENTS

Connect Communities

The Alum Creek Trail connects several neighborhoods in Northeast Columbus. There is great potential to build on these existing connections to further integrate programs and amenities along the trail.

Promote Sustainability

Communities are preparing for a future centered around climate justice. The sites along the Alum Creek Trail can shed light on urban cooling, water regulation, biodiversity, and urban tree canopy coverage.

Empower Through Education

Through existing community organizations and educational institutions situated along the trail, there is great potential for public-private partnerships - integrating educational programming centered around sustainability, urban agriculture, and permaculture.
EXISTING COMMUNITY GARDEN, CURRENTLY IN THE EARLY STAGES OF CONSTRUCTION AND PLANTING

SITUATED ON EXISTING PUBLIC LAND, DIRECT TRAIL ACCESS, AND SUFFICIENT PARKING FOR COMMUNITY EVENTS

SITUATED ON UNDERUTILIZED PUBLIC LAND, DIRECT TRAIL ACCESS

A PARTNERSHIP WITH KIPP COLUMBUS TO PROVIDE STUDENTS LEARNING OPPORTUNITIES AND HANDS-ON EXPERIENCE
CONTACT INFORMATION

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ACKNOWLEDGEMENTS

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Laura Ball, COG Trail Development Working Group Chair
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Introduction

The Urban Greenways Design Guide outlines the various and appropriate design recommendations for implementing trails. Appropriate trail design is contextual, factoring in land use, topography, demography, and other relevant considerations. To ensure that appropriate trail design is implemented within Central Ohio, The Central Ohio Greenways Board has developed this Urban Design Greenways Design Guide.

The Central Ohio Greenways (COG) Board serves as a formal committee of the Mid-Ohio Regional Planning Commission’s (MORPC) Sustainability Advisory Committee (SAC). Board members represent the public, private, and non-profit sectors. The COG Board’s focus is to expand the regional trail system, increase trail accessibility, improve branding and marketing, and establish new public, private, and non-profit partnerships. This focus is reflected in the COG Regional Trail Vision.

The COG Regional Trail Vision features a world-class network of trails easily accessible to every Central Ohioan, and its mission is to increase greenway trail mileage and use of trails for recreation & transportation needs. With Central Ohio being on track to become a region of up to 3 million people by 2050, the region must prepare for an increased demand for walkable neighborhoods, multi-modal transportation options, and economic opportunities. Trails are a critical element of a diverse transportation system & livable communities, and capitalizing on limited opportunities requires regional support and coordination.

In 2018, the COG Board developed a vision to add approximately 500 new trail miles in Central Ohio. New miles will extend existing trails, fill gaps in trail corridors, connect neighborhoods to job centers, and create a truly interconnected network useful for both transportation and recreation. Since then, COG has continued to build support for implementing the Vision through projects such as the 2019 Clarity Report, the 2020 Prioritization Effort, and the 2021 Impact of Trails Study. These projects have set the stage for implementation by identifying a strong regional desire for more trails, and also revealing a clear need to invest in lower income and minority neighborhoods. Urban connections such as east-west connections near roadways as well as linkages from neighborhoods to jobs are needed in Central Ohio to provide a well-connected trail network for all.

The Urban Greenways Design Guide is a resource for local communities and their trail design partners, offering recommendations for envisioning trails in urban spaces that are safe, accessible, beautiful, and inviting.
**URBAN GREENWAY CONTEXT**

Central Ohio Greenways understands urban greenways to be high quality protected trails that provide transportation and recreation opportunities for all people in urban and suburban environments. They can be located along roadway corridors, along riverfronts, or abandoned corridors. The greenways protect uses from other urban transportation uses such as transit, vehicle, and trains while providing a scenic and comfortable atmosphere. The following greenway examples provide inspirational recommendations for how diverse places can implement greenways in various contexts.

**Linear Park**

Linear parks are creative ways to introduce greenspace into urban areas by taking advantage of excessive right-of-way or roadway width. They can transform wide roadway corridors into public greenspace useful for active and passive recreational, active transportation, and public space gathering. Linear parks with high quality trails can stitch together small urban parks to create the feel of a large public park. The greenspace surrounding the trail provides protection from pollution, noise, and vehicles while also creating an opportunity for public art, playgrounds and outdoor gatherings.

Kennedy Greenway - Boston, MA
Commercial Corridor

A greenway in a commercial setting has the potential to dramatically increase economic development opportunities and property values. The comfortable pedestrian and cyclist environment encourage travel to shopping destinations on bike or foot, reducing the need for parking lots and expansive dedicated motor vehicle space. Protected greenways promote safe active transportation opportunities around and through the corridor and can comfortably connect to transit options.

Atlantic Ave Greenway - Boston, MA
Mixed-Use District

Urban greenways in mixed-use areas provide an additional form of transportation to connect areas across communities. Making connections on neighborhood streets offers a safer environment for an urban greenway where road speeds are slower.
Residential Neighborhood

Incorporating urban greenways on residential boulevards provide recreation and transportation opportunities near residential homes. Residential boulevards tend to be wider in their design and ideal to incorporate trail infrastructure.

West Orange Trail - Winter Garden, FL
URBAN GREENWAY TYPES

Urban greenways are located in urban environments and provide users with safe, typically protected trails, for recreation and transportation needs. The following examples illustrate various greenway facilities types implemented in diverse urban contexts.

Median Greenways

Median greenways are located in the middle of a roadway and are physically separated from vehicle traffic by a barrier, curb, or buffer on either side.

Opportunities

- Replace under utilized center turn lanes
- Serve as a pedestrian refugee island on wide corridors
- Separated uses: Sidewalks for access to businesses; greenway for travel through a corridor.
- Avoid safety concerns associated with unsignalized right vehicle turns
- Free the curb lane for other urban transportation needs such as transit boarding, loading, and parking.

Challenges

- Managing intersection crossings
- Managing turning movements
- Maintaining access to essential driveways from both directions on vehicle travel
Downtown Street
9th Avenue and Delancey St
New York, NY

Shopping District
Spring Garden Street Greenway
Philadelphia, PA

Residential/Mixed-Use Boulevard
W Orange Trail
Winter Garden, FL
Shared Use Path

Shared use paths are physically separated from motorized vehicular traffic by an open space, curb, or barrier and may be used by pedestrians, bicyclists and other non-motorized users.

Opportunities

- Green storm water infrastructure between curb and the greenway may also provide natural scenery for trail user
- May be more cost effective than a traditional concrete sidewalk

Challenges

- Managing trail user conflict
- Managing intersections and crossings
Downtown Street
Indianapolis Cultural Trail
Indianapolis, IN

Commercial Street
Route 347
New York, NY

Neighborhood Street
Murphy Parkway
Powell, OH
Rail Trail

A multi-purpose, public path or paved trail created in place of an inactive railroad corridor. Linear rail corridors provide unique opportunities to convert linear abandoned spaces into trails and parks.

Opportunities

• Revitalization and repurpose abandoned corridor
• Typically, dramatically separated from other transportation
• Scenic linear parks are possible due to wide rights-of-way
• The typically long corridors can connect at the regional, state, and national levels

Challenges

• Maintenance of vegetation and trail areas
• Trail access
• User isolation
• Wayfinding
Downtown Area
Dequindre Cut
Detroit, MI

Commercial area
Beltline
Atlanta Georgia

Residential Area
Shepard Rail Trail
Columbus, OH
Rail-with-Trail

A Rail-with-Trail is similar to a rail trail, in that it takes advantage of an existing linear corridor, however a Rail-with-Trail runs parallel to an active commuter or freight rail line. In Central Ohio the Rail-with-Trail intent could also be achieved by building a trail parallel to a fixed route transit line such as a Bus Rapid Transit corridor.

Opportunities
- Activate an under-utilized rail corridor
- Scenic linear parks are possible due to wide rights-of-ways
- Provide comfortable connection to active commuter transit lines
- Provide protection from most other transportation uses
- Connect trails at the regional, state, and national levels

Challenges
- Maintenance of vegetation and trail areas
- Trail access
- User isolation
- Wayfinding
- Protection from rail uses
Downtown Area
2nd Ave Cycle Track
Seattle, WA

Commercial Area
Charlotte Trolley Trail
Charlotte, NC

Residential Area
Camp Chase Trail
Columbus, OH
Protected Bike Lane

A portion of the roadway that has been designated for cyclists only. Bike lanes enable cyclists to ride at their preferred speed with no interference from traffic conditions. Bike lanes are typically one-way facilities located parallel to the curb. A bike lane used as part of a Central Ohio Greenway trail must offer safe protection from other users. Buffer, barriers, grade changes, another protection may be used. Identification of bike lanes can include color treatments, pavement markings (bicycle stencil or directional arrow), stripping, signage, and intersection treatments. To fulfill the purpose of the greenway, in addition to the bike lane high quality sidewalk or other appropriate pedestrian accommodation must be made.

Opportunities

- Quick implementation: modify pavement marking and add low cost barriers
- Cost effective
- Reduce vehicle lane widths to encourage lower vehicle speeds
- Prevents trail user conflict

Challenges

- Managing intersections and trail crossings
- Maintenance of the bike lane
- Protection from high speed vehicles
- Accommodating natural and scenic elements
- Managing conflicts within parked car door zones
Downtown Street
Raised bike lane
Cambridge, MA

Commercial St
One-way protected bike lane
New York, NY

Residential
Raised & protected bike lane
Vancouver, BC
Cycle Track

Cycle tracks are physically separated from other uses and run parallel to the roadway. Cycle tracks are typically two-way and can be at street level or elevated. Additional pavement markings such as a bicycle stencil and directional arrow can be used directly on the cycle track to signal travel directions. Typically, the cycle track is a different color from the sidewalk to distinct the various uses and contains a protective barrier protecting users from motorized traffic. **As with bike lanes a sidewalk or other pedestrian facilities must be combined with the cycle track to fulfill the purpose of an urban greenway.**

**Opportunities**

- Cost effective
- Quick implementation if using existing infrastructure and drainage
- Reduce vehicle lane widths to encourage lower vehicle speeds
- Prevents trail user conflict
- Reduced need to cross vehicle traffic if destinations mostly located on one side of the corridor

**Challenges**

- Managing bicycle turning movements
- Maintenance of the bike lane
- Protection from high speed vehicles
- Accommodating natural and scenic elements
- Managing conflicts within parked car door zones
Downtown
Contra-flow
Dunsmuir, Vancouver

Commercial
Two-way protected
Charlotte, NC

Residential
3rd St Cycle Track
Columbus, OH
Bike Boulevard

Bike boulevards are shared roadway bike facilities on low-volume, low-speed residential streets on which motorized vehicles yield to cyclists. They leverage traffic calming & reduction strategies, signage & pavement markings, and intersection crossing interventions to discourage through-traffic of motorized vehicles in favor of providing a convenient & comfortable riding experience to cyclists & pedestrians. Bike boulevards go by several different names and vary greatly in terms of their individual design elements, but they all share the common theme of reducing motor vehicle traffic to prioritize active transportation modes. Bike boulevards are an essential component of an effective urban cycling network.

Opportunities

• Prioritizes bike travel
• Can be implemented with non-infrastructure interventions
• Serve as trail connectors through neighborhoods
• Utilize signage & boulevard names to formalize bike routes

Challenges

• Constrained to low-traffic, residential streets
• Managing intersections with major arterials
• Traffic calming interventions may be needed
• Enforcement of low speed limits
Residential
Signage Enhancements
Portland, OR

Residential
Traffic Calming
Tuscon, AZ

Residential
Olentangy Trail Connector
Columbus, OH
DESIGN CONSIDERATIONS

The following considerations are intended to illustrate typical urban greenway concerns and infrastructure options that has been used locally and across the world to solve the common concerns.

Conflict Zones

Trail Crossings

Refuge Islands
Summit St., Columbus, OH

The minimum width of a refuge island that accommodates bikes, strollers, etc. and fully protects pedestrians is 6-ft, though 8-10 feet is preferred. That said, narrower islands are preferable to nothing in certain contexts.

More info

Rectangular Rapid Flashing Beacon
St. Petersburg, FL

The unique stutter flashes of RRFBs elicits an enhanced response from drivers at high-volume pedestrian and/or cyclist crossings where driver compliance is low, and if powered via a solar panel, RRFBs have very low maintenance demand.

More info

Colored Pavement Markings
Long Beach, CA

Colored pavement painted the standard green with reflective markings and skid-resistant surfaces most effectively increase road-adjacent bike lane visibility and reinforce priority to bicyclists in conflict areas.

More info
Tunnels
Mill Creek MetroParks Trail Link
Austintown, OH

The Mill Creek bikeway tunnel is a 300-foot long illuminated passage that connects the MetroParks trail underneath I-76. It cost $2.75 million to both remove the previous bridge connector and construct the tunnel.

More info

Bridges
High Trestle Trail Bridge, Madrid, IA

A successful trail bridge will have railings of no less than 42 inches, an approach that’s wider than the width of the trail to avoid bottlenecks, unobstructed sight lines, and a memorable design that’s mindful of the local context and history.

More info

Intersections

Bicycle signal
Salt Lake City, UT

Bicycle signals better inform bicyclists about how to enter intersections safely & legally compared to pedestrian signals, especially where separated bike lanes join roads, bike movements are contra-flow, or high bike volumes necessitate leading cyclist intervals or “all-bike” signal phases.

More info
Roundabouts
New Albany, OH

Roundabouts do not accommodate bike lanes and often increase difficulty for bicyclists and pedestrians, but where they exist, vehicle speeds should be managed to allow experienced riders to safely share the road, and ramps to pedestrian crosswalks should be installed to allow less experienced riders to easily dismount and cross the roundabout.

More info

Curb Extensions
Kansas City, MO

Curb extensions narrow the roadway to slow vehicle speeds and turns, shorten pedestrian crossing distances and increase their visibility, increase available space for street furniture and transit stops, and enhance the multi-modality of the roadway in general.

More info

Driveways

Trail Priority Driveway Crossings
Yarra, Melbourne, Australia

Where possible, trail users should be given priority at trail-roadway intersections to keep vehicle speeds low and minimize stop-and-start instances for bicyclists.
Transit

**Bus Bulbs**
Summit St
Columbus, OH

Bus bulbs should have a minimum length of one bus-length, with a width of at least 6-ft. These allow buses to stop and board passengers without needing to leave and then re-enter the travel lane, ensuring faster and more reliable transit movement.

[More info](#)

**Shared Bus/Bike Lane**
Boston, MA

Shared bus/bike lanes are low-comfort bike facilities, so they should only be implemented on low-speed (< 20mph) and low bus-volume streets, as well as streets where no space is available for dedicated bikeways.

[More info](#)

**Floating Transit Stop**
Seattle, WA

Like bus bulbs, floating transit stops allow buses to board passengers without leaving the travel lane, but they’re also separated from the sidewalk by a dedicated bikeway, eliminating conflicts between bicyclists and transit vehicles at stops.

[More info](#)
Buffers and Barriers

Sound Buffers

Sound Wall
Scottsdale, AZ

Sound walls must be tall enough to fully block the line of sight to adjacent noise sources in order to force sound waves above or around the wall, allowing the wall to provide a perceivable noise reduction.

More info

Street Tree Buffers
Brooklyn, NY

For vegetation to obstruct noise, it must be dense enough to be visually impenetrable. Though street tree buffers are rarely so dense, the tree canopy, visual relief, and restorative feel they provide are highly valuable benefits.

Scenic Visual Buffers

Parklet
Des Moines, IA

Parklets convert curbside areas into community seating & gathering spaces. They should be at least 6-ft wide with vertically visible barriers between them and vehicle travel, with a flush transition with the sidewalk and lack of obstruction of stormwater runoff.

More info
Safety Barriers

Car Parking - Door Zones
Oakland, CA

“Dooring” accounts for 12-27% of all urban car-bike collisions, making it a very common crash type. Door zones should provide at least 4 feet of separation between cyclists and parked cars.

Concrete Barriers
Salt Lake City, UT

Low-lying concrete barriers should be paired with vertical elements, like flex posts, to visually alert their presence to motorists and avoid collisions between vehicles and barriers.

Landscaped Barriers
Coral Gables, FL

Landscaped buffers or planter boxes physically and visually separate bike lanes from travel lanes, as well as provide aesthetic value and potential stormwater capture benefits.

Space Buffers
Austin, TX

Buffers should be at least 18 inches wide, with those 3-feet or wider marked with interior diagonal cross hatching or chevrons to discourage occupying the space. That said, the buffer is considered part of the bike lane, where bicyclists can pass or avoid door zones.
Utilitarian Amenities

Bike Storage / Repair

**Bike Depot**
Westerville, OH

The Westerville Bike Depot sits in Hanby Park along the Ohio-to-Erie trail. Here, trail users can find water fountains, bike racks, restrooms, lockers, picnic area, and a fireplace. With intermodal connections, the depot can serve both as a restful stopping point and a connector to the surrounding area.

More info

**Covered Bike Parking**
Portland, OR

Bike shelters provide some protection from rain and the sun, especially when outfitted with green roofs. With the addition of maintenance stations or information panels, these amenities can increase awareness of and support for active transportation.

More info

**Intermodal Bike Storage**
Washington, DC

Intermodal bike stations can provide both long- & short-term storage, and when located within 50-feet of a transit stop or station, they can remove the need to use bus racks and readily facilitate modal shifts.

More info
Wayfinding makes the urban landscape legible, helping people to interpret their surroundings and orient themselves directionally. Accessible methods incorporate multi-sensory feedback to reach travelers of all abilities.

More info

Wayfinding also guides & directs people through the physical environment, ensuring that conflict points between travelers in different modes are minimized, and giving users a sense of well-being, safety, & security.

More info

Recognition signage, when designed creatively & uniquely, can attract travelers and even add to the aesthetic of the trail. When paired with historical or nature-related information, it can serve as a restful & interesting stopping point.

More info
Lighting

Solar-Powered Lighting
Whittier, CA

Given that fatal bike accidents are more likely to occur in dark conditions, lighting trails & bikeways is a key step to preventing collisions & enhancing the security of users. Solar-powered lighting is ecologically-friendly and requires little maintenance.

Public Facilities

Public Restrooms
Austin, TX

Regular public restrooms along greenways are more than an amenity -- they are a necessity for trail planning & infrastructure that is inclusive of those with all digestive conditions and thus accessible to people of all ages & abilities.

Rest Areas
Azusa, CA

Rest areas along trails should provide seating, like benches and tables; bike parking; water fountains; and other restorative amenities. They should also incorporate informational signage and locate near a scenic vista.
Natural, Scenic, & Comfort Amenities

Scenic Amenities

Riverfronts
Batelle Riverfront Park, Columbus, OH

Riverfront parks are dynamic greenspaces that can offer picnic-style seating areas, tables, scenic views, blueway entrances, and multi-use paths winding along flood-prone river-banks, unlocking space that's otherwise undevelopable.

Planter Boxes
Cannon Cycle Track, Hamilton, Ontario

Planter boxes provide bike lanes with more protection than flex posts, and can also offer aesthetic and ecological benefits as well. However, care should be taken to ensure they’re anchored to the ground and not conflicting with street-parking.

Vegetation
Fairfax, VA

Vegetation must be sufficiently dense so as to be visually impenetrable in order to provide a perceivable level of noise reduction from nearby sources. Trail vegetation can also result from natural habitat restoration projects.
Green Storm Water Management

Bioswales
Indianapolis Cultural Trail, Indianapolis, IN

Bioswales are a linear type of rain garden well-suited for the narrow space between the sidewalk and curb. They're vegetated, mulched, or xeriscaped channels that slow, infiltrate, and filter stormwater flows as they move them from one place to another.

More info

Public Art

Murals
Beltline Greenway, Atlanta, GA

Murals and public art are invaluable forms of creative placemaking that imbue focal points along trails with a sense of definition and identity. They can express the area’s culture, heritage, or history, or simply add color and variety to the visual environment.

Sculptures
Kennedy Greenway, Boston, MA

Sculpture trails serve as open-air, active art galleries. The trail or multi-use path acts as guides leading users from sculpture to sculpture, blending nature with structural art.
Benches / Rest Areas

Scenic Seating
Black Hills, SD

Rest area seating is well-suited for clearings across from scenic views generated from topographical variety, gatherings of wildlife, or lush forests.

Rest Area
British Columbia, Canada

Rest areas are necessary components of a trail system that aims to be accessible and inclusive for people of all ages & abilities.

Education

Interpretive Signage
Platte River Greenway, Denver, CO

Interpretive signage is a form of storytelling, expressing themes of history, environment, or culture. Interpretive signs should visually stimulate visitors’ interest, telling a sequenced story as they lead users from one story to the next.

More info
Research has shown that people continue to walk & bike during winter months, provided that trails are cleared for them to do so. As such, pre-treating paths or trails with anti-icing mixtures and clearing snow can unlock trails during winter months.

Trail alerts warn users about incoming topographical changes, like steep hills or sharp turns. They also inform users about codes or regulations that govern the trail.

Trail counters are highly-sophisticated technology capable of detecting and counting trail users that pass by. They are invaluable tools for understanding trail volumes and maximizing information when seeking resources for trail infrastructure and improvements.
References


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