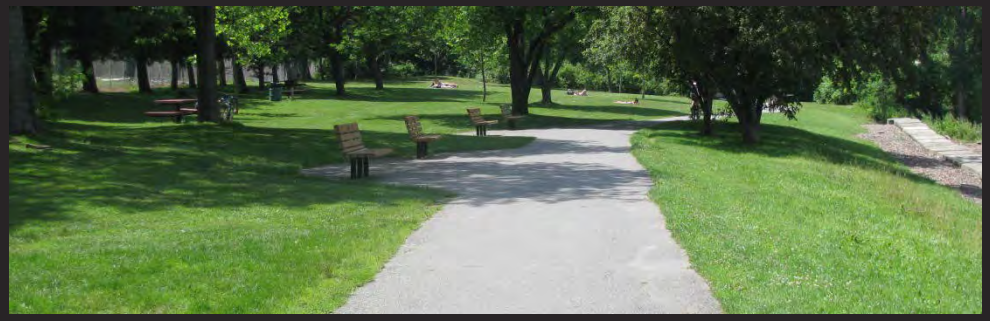
Burlington Bike Path Rehabilitation
Project Overview

City of Burlington

Department of Parks and Recreation



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Project Map – Sections 0-16

Bike Path Overview

- 8 mile route from Queen City Park Road to the Winooski River.
- Links six major waterfront parks, along with the Burlington High School, and the central Waterfront district, and many other local attractions.
- Built 27 years ago as one of the first in New England.
- Not constructed to today's standards, requires restoration.

Queen City Park Road
Path Entrance

Winooski River Bridge

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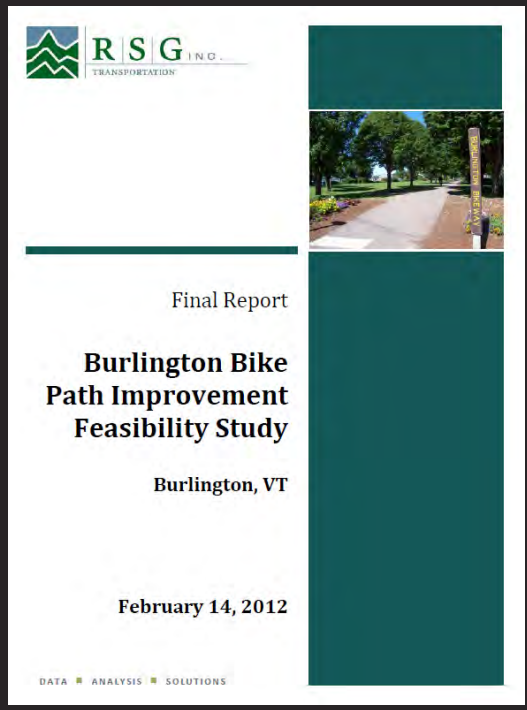
Bike Path Overview

- Critical for alternative transportation goals, health and wellness of residents, and tourism industry.
  - An economic generator: 30% of trail users come from outside Chittenden County and spend $4.5 million locally each year.
  - Utilized by an estimated 150,000 bicyclists, walkers, joggers and in-line skaters annually.
- Previous work from the 2012 Burlington Bike Path Improvement Feasibility Study will be carried forward through this project.
- The Bike Path is Burlington's most popular amenity.



Communication

- Website: www.BTVBikePath.com
- Bi-Weekly Updates
- Email Distribution List (Join on the project website!)
- Public Meetings
  - Conceptual Improvements Presentation - October 15th
    - Review Process, Alternatives, Schedule, Public Input
  - Public Informational Meeting – December
    - Present the Approved Preferred Alternative

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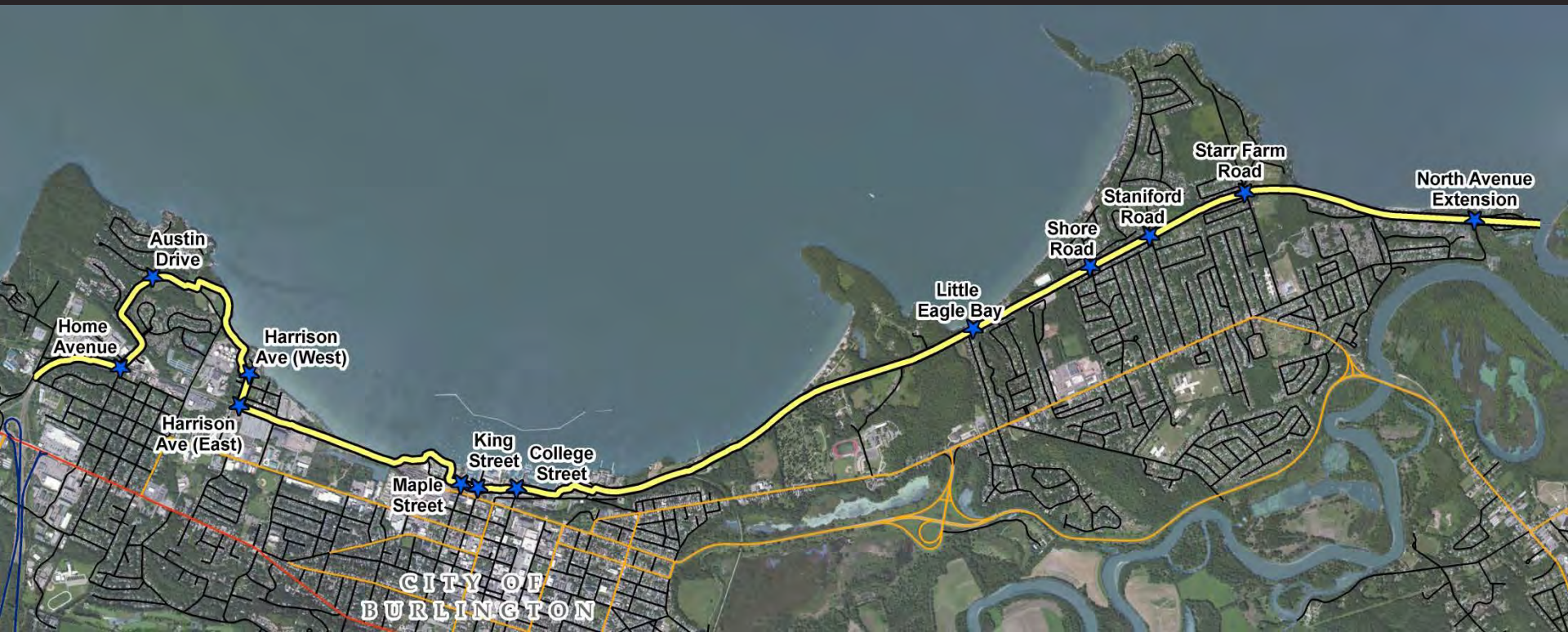
Project Signs

- Public Notice Signs Located at Various Locations Along Path
- 2013-2014 Fieldwork

Intersections Scoping Study

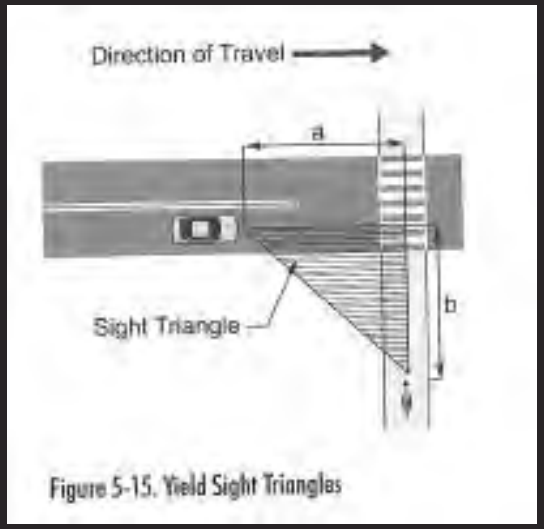
- Develop Improvements for 12 at-grade Path Crossings



Intersections Scoping Study

VS.

- Evaluated Existing Conditions
- Yield Analysis
  - Can Yield Sign be Used in Place of Stop Signs?
  - Only Select Crossings Reviewed for Yield Signs Based on City Input
  - Calculated Sight Triangle Legs
  - Path Design Speed of 20 MPH
  - CCRPC Speed Study Conducted



AASHTO Design Reference

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Yield Sign Analysis Results

Crossing	Calculated Bike Path Leg (ft)	Observed Bike Path Leg (ft)	Acceptable for Yield?
Harrison (West)	125	0	No
Harrison (East)	125	0	Yes
College Street – 10 mph	95	100	Yes
College Street – 25 mph	90	65	No
Lake Street	85	85	Yes
Little Eagle Bay Road	140	10	No
Beachcrest Drive – 10 mph	140	15	No
Beachcrest Drive – 25 mph	130	5	No
Leddy Beach (South)	95	20	No
Leddy Beach (North)	95	60	No
Shore Road	130	10	No
North Avenue Extension – 10 mph	140	20	No
North Avenue Extension – 25 mph	130	10	No

Intersections not included here:

- Home Avenue
- Austin Drive
- Maple Street
- King Street
- Staniford Road
- Starr Farm Road

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Intersections Scoping Study

- Develop Improvement Plans (Near and Long Term)
- Solicit Public Input
  - Alternatives Presentations – August 20th
  - Taking Public Feedback until August 28th
- Select Improvement Alternatives – September 6th
- Develop Summary Report with Recommendations – September
- Final Approval of Scoping Report October 2013

Rehabilitation Project Development Process

- Phase A – Project Definition
  - Preferred Alternatives, Conceptual Design
- Phase B – Project Design
  - Preliminary and Final Design
- Phase C – Construction
- Schedule
  - Phase A – Sections 1-16
  - Phase B – Preliminary Design: Sections 1-16
  - Final Design: Sections 6-10
  - Construction: Sections 6-10

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Project Development Process

Phase A – Project Definition

- Predesign Workshops:
  - Mtg #1: Parks & Rec Kickoff – 7/22/13
  - Mtg #2: DPW, CEDO, CCRPC – 8/1/13
  - Mtg #3: Mayor's Office, CEDO Director – 8/21/13
- Design Team Fieldwork (July - September)
  - Field Survey
  - Environmental
  - Pavement Rehabilitation & Design
  - Geotechnical Subsurface Exploration (GeoDesign)

Project Development Process

Phase A – Project Definition

Pavement
Sampling
Test Pits

Project Development Process

Phase A – Geotechnical Soil Borings

Geoprobe Track-Mounted Drill Rig (5’ Wide)

Project Development Process

Phase A – Project Definition

- Natural Resources Identification
  - Desktop Investigations
    - Wetlands, Rare, Threatened & Endangered Species (RTE)
  - Fieldwork
    - Wetland and Stream Delineation, Field Assesment
- Resource Identification Report (RIR)
  - Compilation of all Environmental Data

Project Development Process

Phase A – Project Definition

- Major Property Owner Meetings
- Master Planning
- Alternatives Investigation
- Conceptual Improvements Public Meeting – October 2013
- Conceptual Plans (25% Design) – December 2013
- End Phase A

Project Development Process

Phase B – Project Design

- Begin Phase B – January 2014
- Preliminary Plans (60% Design)
- Formal Property Owner Visits/Impact Discussions
  - Major Property Owners, Neighborhood Meetings
- Final Plans (85% Design) – May 2014
- Contract Plans & Specs/Bid Docs (100% Design)
  Advertise Project – June 2014

Project Development Process

Phase C – Construction

- Construction Administrative Period
- Public Outreach
- Mobilization & Construction – Fall of 2014 - 2015
- Construction Oversight

Schedule

- Current Schedule:
  - Phase A – Project Definition

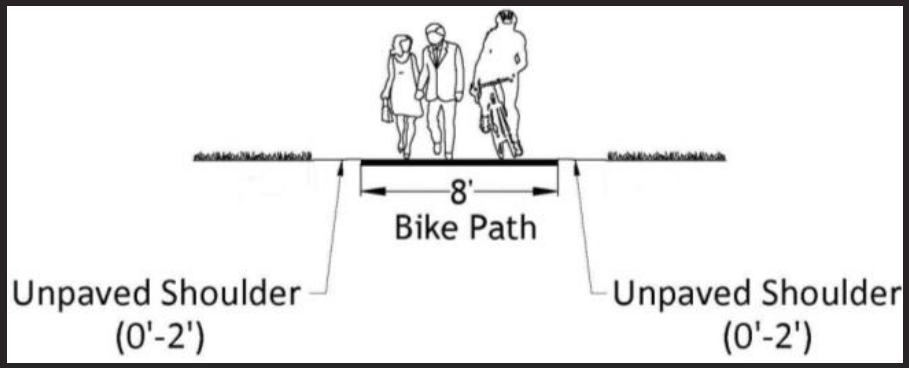
    Complete End 2013
  - Phase B – Project Design

    Complete Mid-2014
  - Phase C – Construction

    September 2014

Design Considerations

- Existing Typical Section



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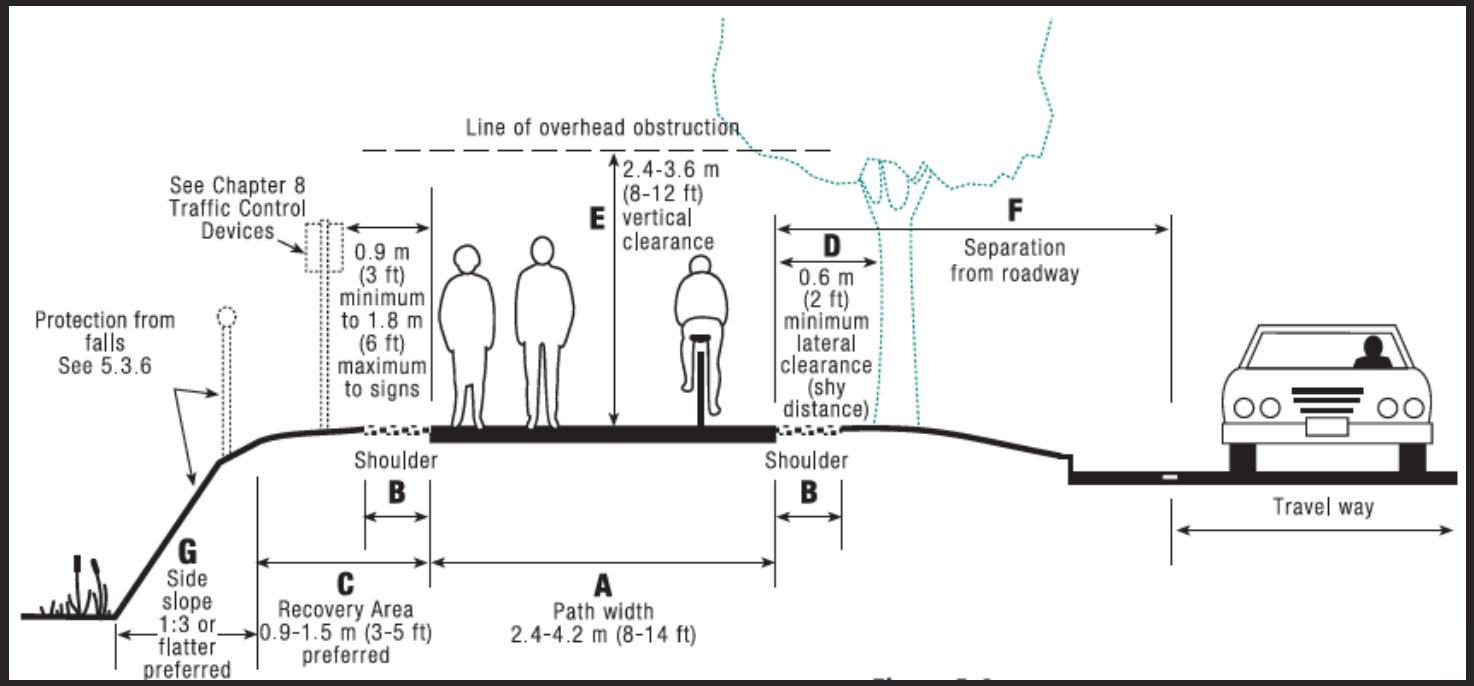
Design Considerations

- Typical Section – VTrans 2002 Bike/Ped Manual
- Goal is to widen path to 11 ft with 2 ft gravel shoulders



Design Considerations

- Roadway Connections
  - Home Avenue/Austin Drive
  - Harrison Avenue
- These connections will include on-road improvements
  - Potential on-road bicycle facilities
  - Possible improvements to existing pedestrian facilities
  - Enhanced Wayfinding/Signage/Striping

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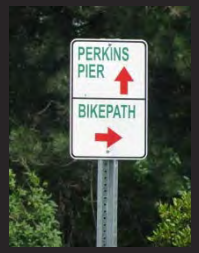
Design Considerations

- Flood Impacts and Shoreline Protection

Design Considerations

- Existing Crossings

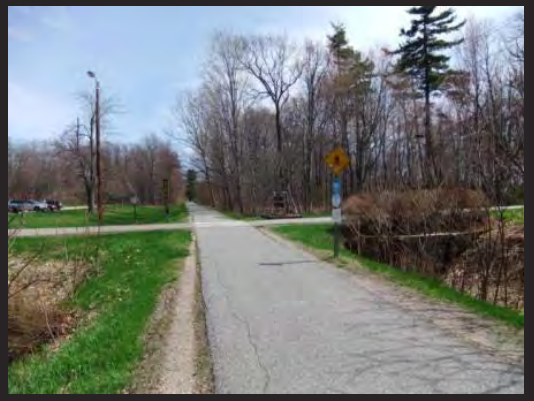


Snack Shack

College St

Lake St

King St



Leddy Park

Design Considerations

- Signage

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Design Considerations

- Access / Connections

Access to North Beach/Campground

Consider Formal Connections, and Wayfinding Signs

Informal Connection – South of Lakeview Cemetery

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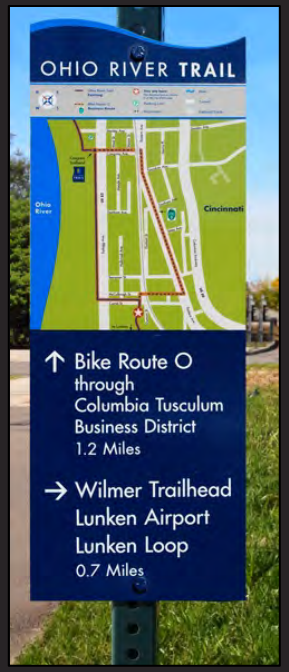
Vision / Inspiration / Placemaking



Wayfinding

Information Kiosks

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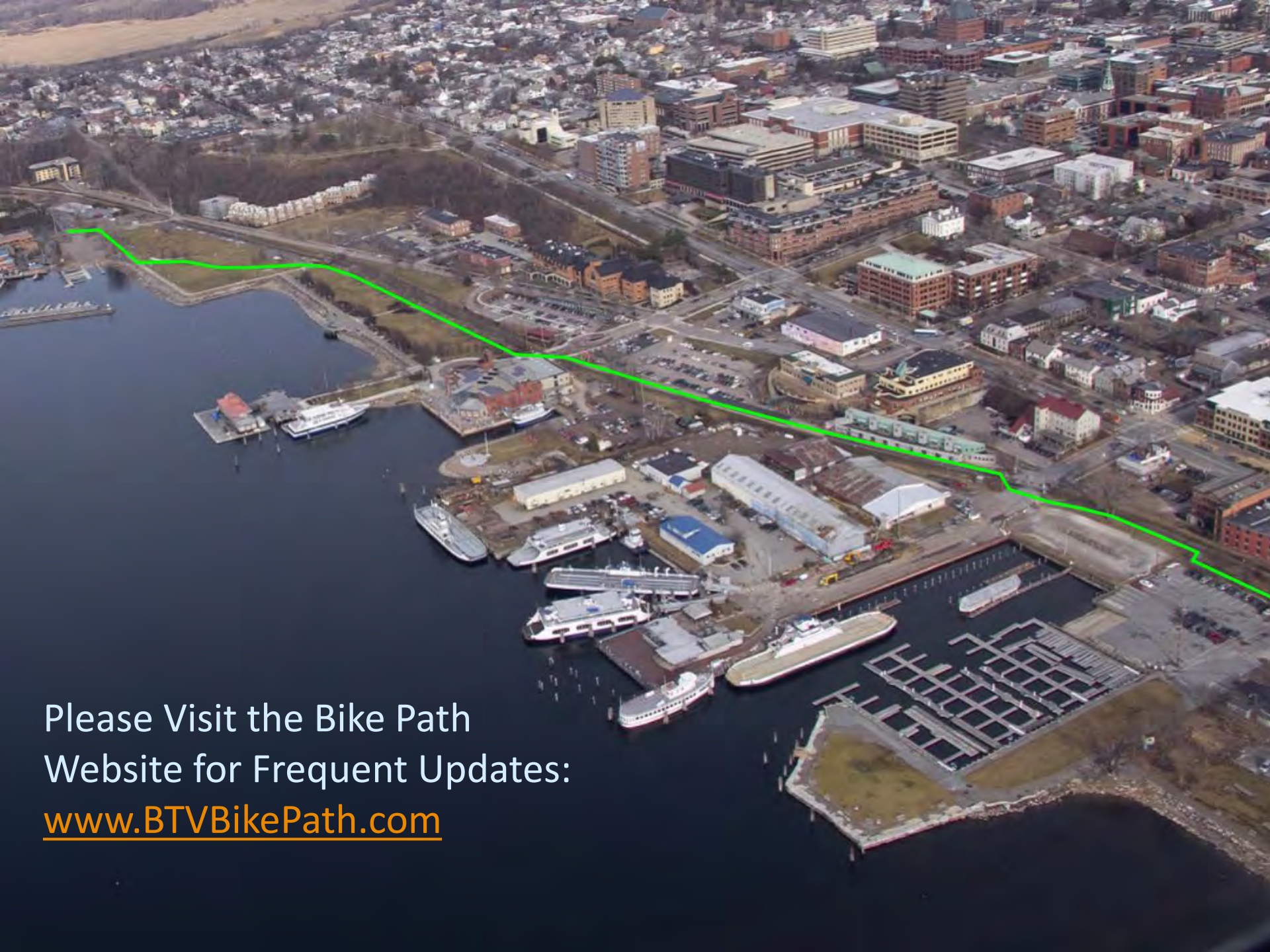
Vision / Inspiration / Placemaking

Gateways

Seasonal Restroom

Workout Stations



Please Visit the Bike Path Website for Frequent Updates:
www.BTVBikePath.com