

MassTrails: The Baker-Polito Administration's Trails Initiative

Massachusetts Association of Conservation Commissions
March 2019







Welcome to MassTrails

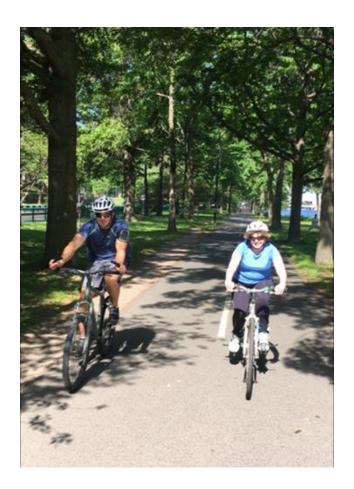
Trails are the intersection of conservation, community, transportation and recreation. They connect Massachusetts residents and visitors to the places in which we live, learn, work, shop and play.



MassTrails Vision



To expand and connect the Commonwealth's networks of off-road, multi-use pathways for people of all ages and abilities across Massachusetts.







MassTrails Initiative

- Environmental Protection and Recreation
- Sustainable Transportation
- Municipal Partnerships
- Public Health
- Economic Development
- Community Development
- Public safety











Different Kinds of Trails





Separated bike lanes; side paths



Shared Use Paths / Greenways



Unimproved, natural trails



Improved, unpaved trails



One Trails Team



- massDOT Collaboration between Energy and Environmental Affairs (EEA), Department of Massachusetts Department of Transportation Conservation and Recreation (DCR), and Massachusetts Department of Transportation (MassDOT)
- Direct support from the Governor's Office and Administration & Finance
- Meet every two weeks to discuss priorities, policies, & implementation.
- Engage with other state agencies on specific topics, such as trail permitting



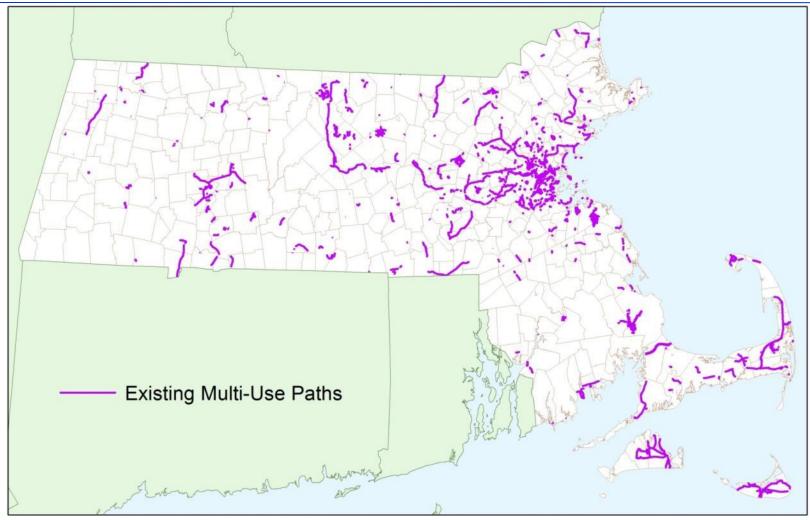






Existing Multi-Use and Improved Trail Map

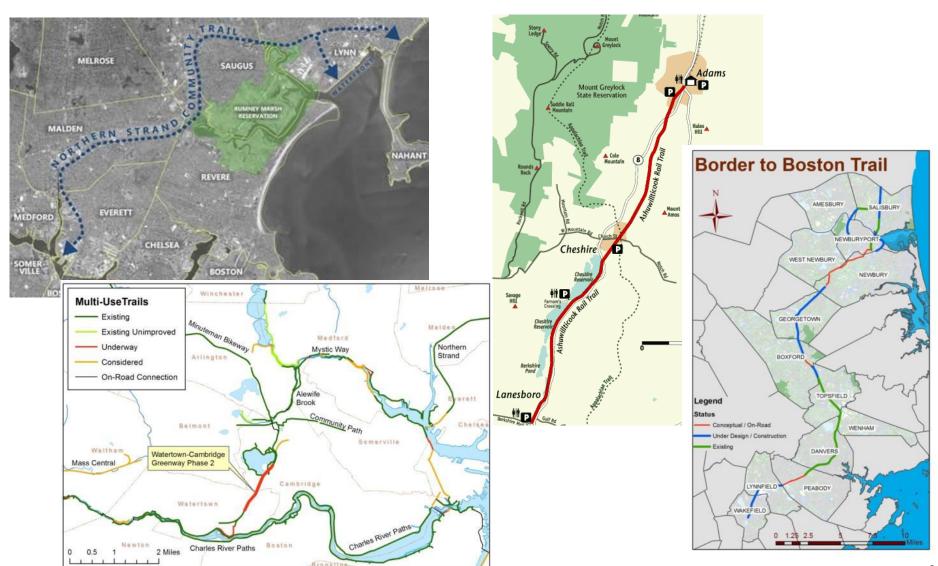






Building Networks Closing Gaps







Instead of this...





Can you imagine a road that just . . . ends?









And this...

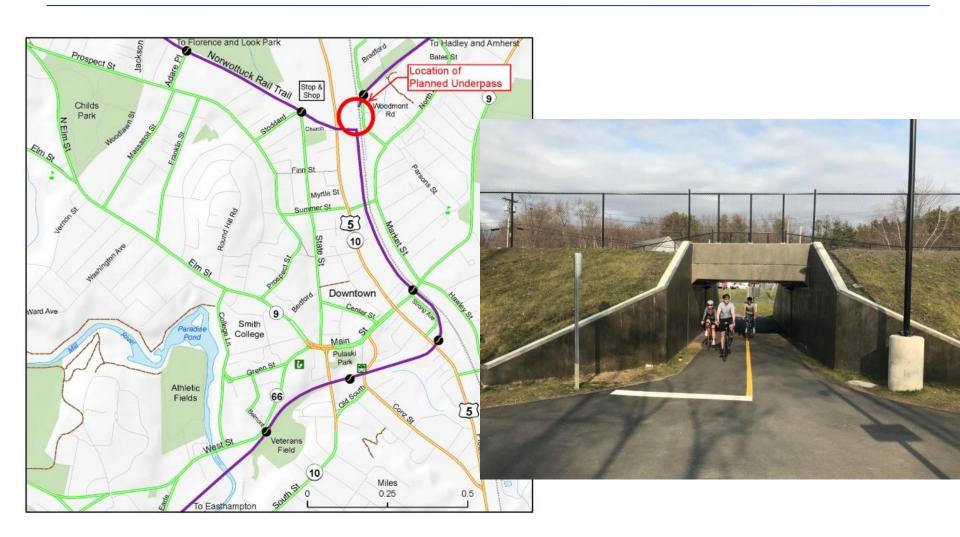






Close Gaps Northampton, MA







Building Networks: DCR Neponset River Greenway



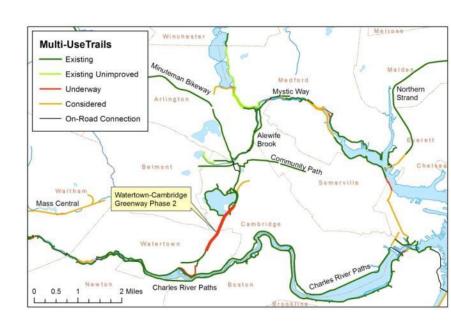




MassTrails Strategies



- To provide funding to municipalities and nonprofits to support the design, construction, and maintenance of all trail networks across the Commonwealth;
- Consolidate the public face and application processes for multiple trail funding programs into one user-friendly and simplified process.
- Provide access to technical expertise including publications and trainings
- Collaborate with municipalities through one inter-agency team
- Work to address persistent issues or barriers to Common Sense Trail development and maintenance, including Permitting.





Municipal Partnerships



- Cities and towns own the majority of paved trails in Massachusetts
- Multi-use, paved trails often promoted and advanced by municipalities
- Trails Team aims to become a better partner to cities and towns

Town of Wellesley

- Built more than 46 miles of biking and hiking trails to create a bicycle/pedestrian network
- The Fuller Brook Trail (shown) serves as the major sewer line, stormwater retention system, and an improved trail





"Build Out" of Key DCR Trail Corridors



- "Major Trails" line item in the Capital Budget
- Example Projects:
 - Conant Road Underpass on the Mass Central Rail Trail
 - Closing Gaps in the Mystic River Reservation
 - Expanding the Southern New England Trunkline Trail











Fix it First: Investment in Maintenance

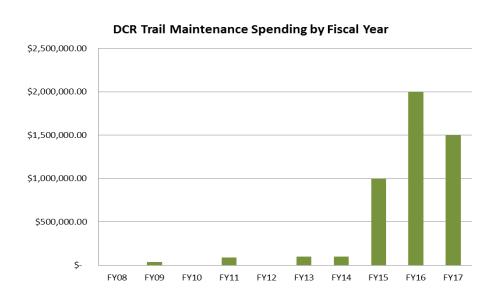


Under the Baker-Polito Administration, DCR has for the first time prioritized <u>maintenance</u> of the existing DCR trail system

The FY19 Budget provides \$800,000 to maintain existing DCR trails











What would you like to do?

Top tasks

Apply for a MassTrails Grant >

Build a Shared Use Path >

All other tasks

Learn about the MassTrails
Conference →

Find Trails in Massachusetts
State Parks *

Explore Regional On-Line Trail
Map →

Search Trail-Related
Resources →

Find Trail-Related Events >

www.mass.gov/masstrails



Tools for Trail Development: Planning and Design Guide





www.mass.gov/guides/shared-use-path-planning-and-design-guide



Core Funding Streams that Support Trails



- Federal Funding via MassDOT
 - Federal government pays 80%
 of construction cost
 - Massachusetts matches 20%
 - Allocated through the Capital Investment Plan (CIP) and MPO process
- EEA and DCR Capital Funding
 - Municipal grants





CAPITAL INVESTMENT PLAN



Recreational Trails Program



MassTrails Grant Program



MassTrails Grant Program Overview

MassTrails provides grants to support recreational trail and shared-use pathway projects across the Commonwealth. Grant amounts are dependent on the project and its needs, but generally range from \$10,000 to \$100,000 with grants of up to \$300,000 awarded to high priority projects.

Eligible grant activities include project development, design, engineering, permitting, construction, and maintenance of recreational trails, shared use pathways, and the amenities that support trails.



MassTrails Grants



- Funded through FY23 in the Governor's Capital Budget.
 - Authorized in the Environmental Bond Bill
- Funded by Federal Recreational Trails
- Applications were due February 1, 2019
 - 123 proposals were received requesting just under \$13 million







Coordinated Permitting and Mitigation



- Working to streamline environmental permitting & coordinate mitigation
- Working with MEPA & DEP to collaborate on permitting questions
- Trails network will provide clear signals about desired mitigation strategies





Bottom Line



- The new MassTrails Team meets on regularly to improve coordination across the Administration.
- Funding to municipalities for trail development has increased & increased again – from \$1.18 million to an expected \$5 million in FY2020 – 4x increase
- "MassTrails" was authorized in the Environmental Bond Bill & funded
- More than \$200 million will be invested thru MassDOT over the next five years.
- We are coordinating with environmental agencies & the private sector as part of the Trails Initiative, e.g. Malden River Trail System and Northern Strand
- More state & local trail projects needing Conservation Commission Review and Determinations and Orders of Conditions!



Massachusetts Association of Conservation Commissions Shared Use Path Planning and Design March 2, 2019



So I want to build a path...

How much will it cost?

Where should it go? What do I need to plan for?

Do I have to design it a certain way?

How do we build it? How will it be maintained?

Where do I even start?

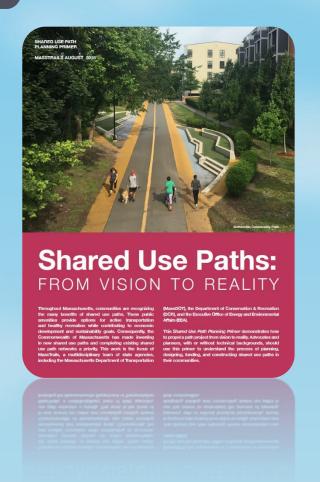


Building a Shared Use Path

- Where do I start?
 - Planning Primer
 - Cost Estimator Tool
- Planning & Design Guide (SUPPDG)
 - Planning
 - Design
 - Maintenance



Planning Primer



Goal: propel your path project from vision to reality, regardless of your technical background

Use: understand the process of planning, designing, funding, and constructing shared use paths





Cost Estimator Tool

	Shared Used Path Design Guide Cost Estimator		MASS THE PROPERTY OF THE PARTY		
PROJECT INPUTS - PAGE 1 OF 2 PROJECT DESCRIPTION			CLICK INFO		
What year is the project expected t	o begin construction?	2020	0		
2 Should the estimate include cost of	f engineering design and/or traffic control?	Design	0		
3 How many distinct segments of pa Input a number between 1 and 4 What is the length of the segment What are the existing conditions of What type of path is being propose What material will the shaved used What material will the thoulders b What is the width of the path? (79) What material will a path be	### ### ### ### ### ### ### ### ### ##	3 Segment 3 Segment 3 3,000 ft 3,000 ft ar, flat Clear, flat Trail (w/ Rail with Trail phalit Asphalit Asphalit	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		PATH
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What is the extent of landscape res 18 How many parking spaces will be s What will be the material of the s	provided?	Moderate 25 Typical Aspha	o o	}	LANDSCAPING AND AMENITES
19 Will the path require lighting along 19a If not along the entire length, wh 19b If there is lighting, should securi	at length requires lighting?	Yes 200 ft No	0	}	LIGHTING AND SECTION
	CHECK FOR ERRORS	Click Button proceeding	n before		
	CHECK FOR ERRORS ←	Treesafing			
19 State the publications in glocal strong 124 Even along the entire laught, we 128 Evident it lighting thought excent		74c a 2co a 2m	0 0	1	DINTHOLD OF THE COLUMN TWO COLUMN

Goal: Quickly estimate the cost of potential shared use path projects to help plan and assess feasibility

Use: make a "planning-level" cost estimate, help choose a path alignment, and begin to plan for funding the project

So I want to build a path...

Where do I even start?

How much will it cost?

Where should it go? What do I need to plan for?

Do I have to design it a certain way?

How do we build it? How will it be maintained?



Planning & Design Guide



Goal: Learn how to plan, design, fund, and construct your project

Use: plan for the people the path serves, meet design standards and best practices, and ensure the project succeeds



MASS TRAILS

Who will use the guide?





What do people need from the guide?

Proponents

A process guide and checklist

Building the case for a path, what it will cost, who to work with, questions and challenges to expect

Consultants

Library for planning & design

Compiled planning and design experience, lessons learned, goals and aspirations

DCR

Standards for design and maintenance

Maintenance,
landscaping,
drainage,
widths,
materials,
encroachment
resolution

MassDOT

Coordination with agencies & standards

Project
Development,
Complete
Streets, ROW,
Environmental,
Landscaping,
Districts, ADA



Goals of the guide

Create a useful resource: make a guide and a toolbox

Create more proponents: make the process easier

- Create more projects: make the projects easier
- Create more users: support statewide priorities and goals





Building a Shared Use Path

Planning

Design





Building a Shared Use Path

Planning

- For the Process For Design
- For Users

- For Networks
 For Funding

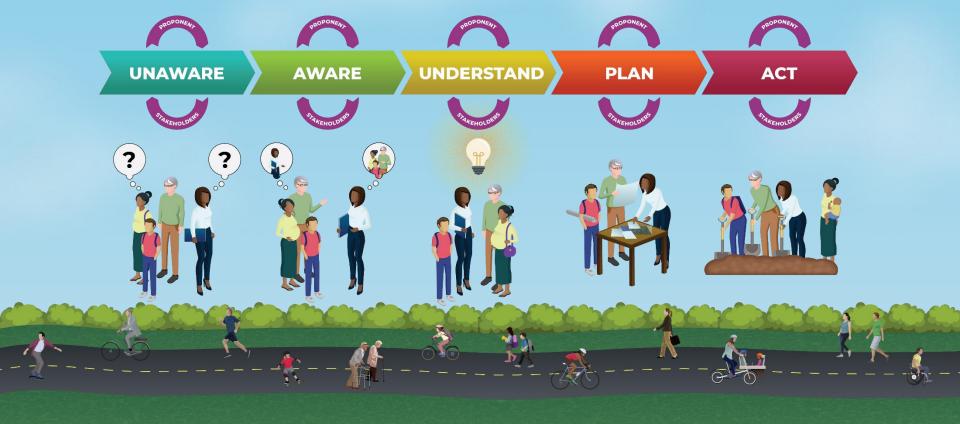




Planning for the Process

- Vision
- Common Goals
- Local Context

- Agency Coordination
- Public Engagement
- Project Feasibility





All paths should be:

Useful

Safe

Secure

Comfortable

Enjoyable

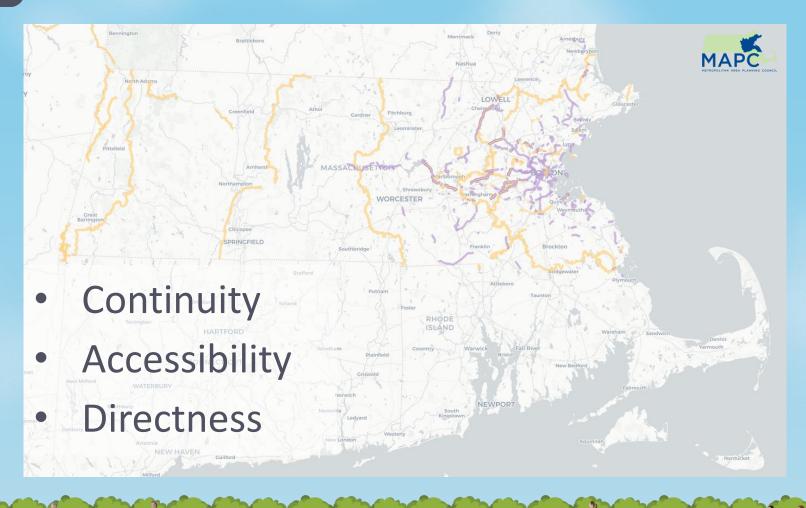
Inclusive







Planning for Networks

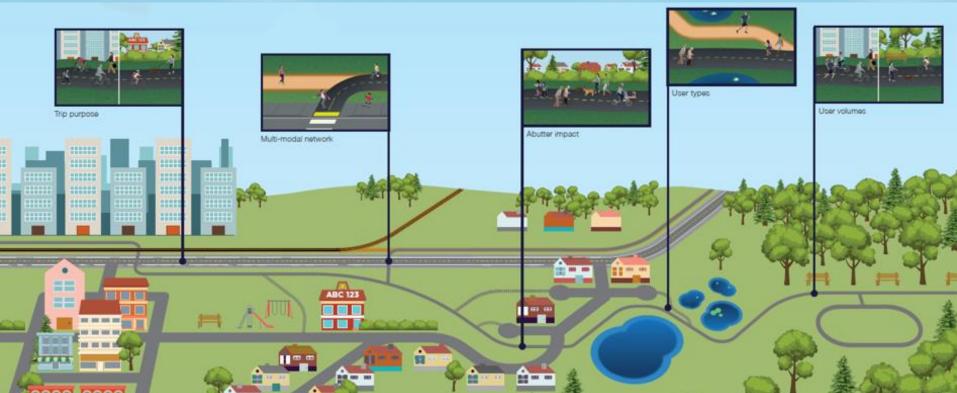




Planning for Users

- How will the path expand the multi-modal network?
- Who will use it?
- How will people use it?

- How many people will use it?
- How will it impact abutters?

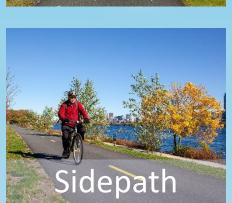


Planning for Design

Core concepts for all paths

- Safety
- Security
- Comfort
- Enjoyability





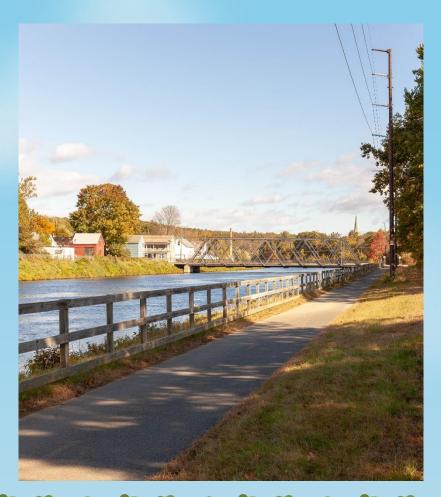






Planning for Design

- Land
 - Right-of-Way
 - Environmental
 - Railroads & Utilities
- Route
- Feasibility







Planning for Funding

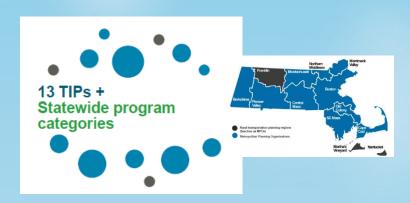
- Cost
 - Cost Estimator Tool
 - Professional Estimates

- Funding
 - MassTrails Grants
 - Complete Streets
 - Federal/state programs
 - Private partnerships





CAPITAL INVESTMENT PLAN



Recreational Trails Program





Building a Shared Use Path

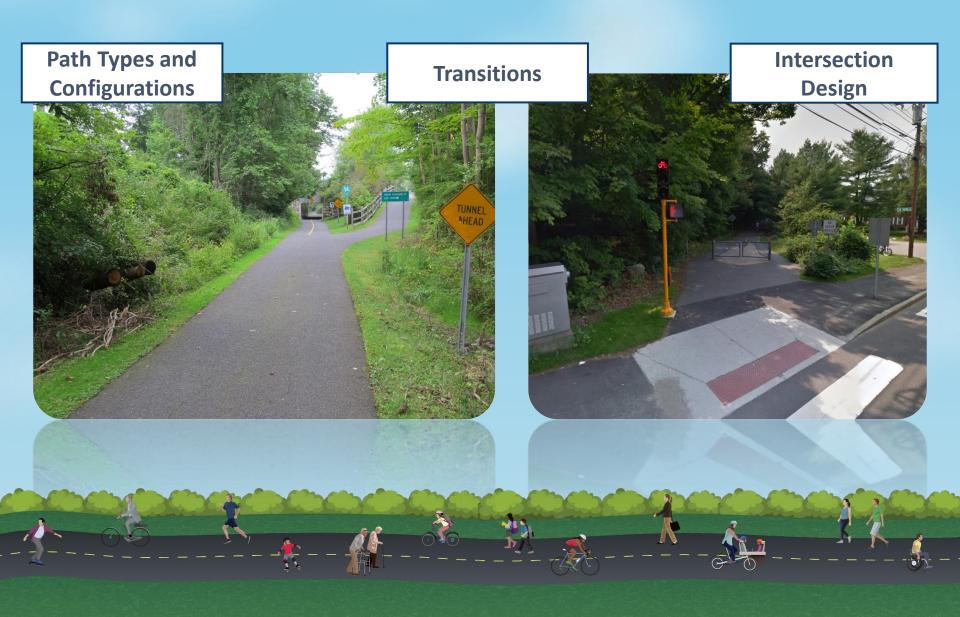
Design

- Geometry
- Path Experience
- Design Elements





Design | Geometry





Design | Path Experience





Design | Elements

- ADA & access
- Surfaces/Materials
- Signage & Wayfinding
- Pavement Markings
- Drainage

- Wetlands
- Rail Corridors
- Utility Corridors
- Emergency Access





Construction and Maintenance



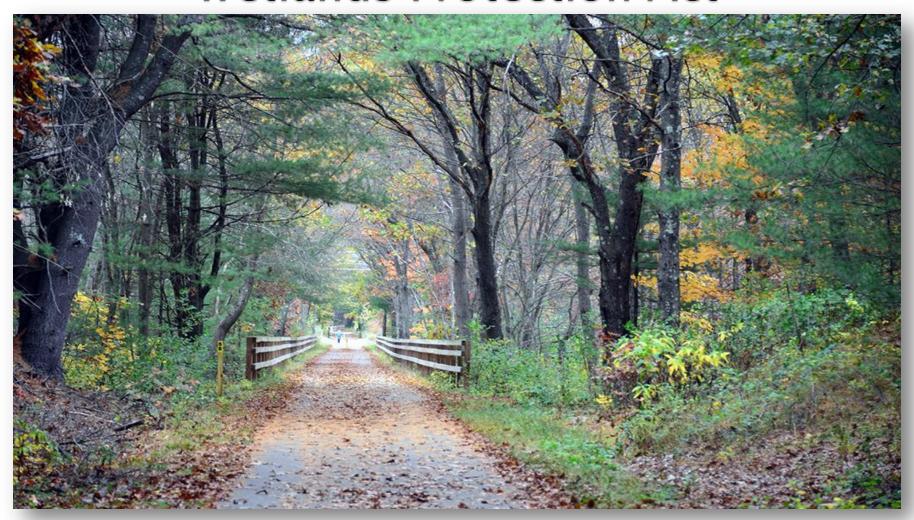


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Multi-use Path & Trail Permitting under the Wetlands Protection Act



- Environmental impact avoidance and minimization measures are required by MEPA, the Wetlands Protection Act (WPA), Water Quality Certification (WQC), Chapter 91 and permits under the Army Corps' authority (404 and the Rivers and Harbors Act) require of impacts.
- Avoidance includes reasonable alternatives (e.g. route, design dimensions and/or location) and the employment of best management practices (BMPs).
- Impacts which cannot be avoided must be minimized through the use of BMPs.
- Mitigation must be provided for impacts that cannot be avoided or minimized (i.e. replication, restoration, compensatory flood storage, etc.)

- Multi-use trail layouts can impact wetland resources and must meet performance standards.
- Multi-use trails are subject to stormwater regulations to the maximum extent practicable. 310 CMR 10.05(6)(m).

- Performance standards for "limited project" may be waived at the *discretion* of the issuing authority in these circumstances:
- As maintenance and improvement of existing public roadways and shoulders 310 CMR 10.53(3)(f) provided the improvement is widening less than a single lane.

- Within a resource area, bike paths and trails are elevated on pilings and permit the "reasonably unobstructed flowage of water and adequate light to maintain vegetation", 310 CMR 10.53(3)(j).
- Bike paths within Riverfront Area and outside of other resource areas provided:
 - Adverse impacts are minimized, generally paved area not to exceed 10' except in previously altered areas
 - Access is not located in vernal pools or fenced in a manner to impede the movement of wildlife. (310 CMR 10.53(6)

Recommendations: Inter-agency Coordination

- MassDEP, MassDOT and DCR have agreed to collaborate during the planning phase. Early project coordination will help identify problem areas and explore potential solutions. Selection of paths which are most likely to succeed will avoid wasted time, effort and money.
- MassDOT and DCR could collaborate early with local Conservation Commissions on projects.
- Roll out coordinated communication with Conservation Commissions about this Trails Initiative (as part of the Shared Design Guide & otherwise).
- MassDEP will:
 - Contribute to MassDOT's Shared Use Path Design Guide
 - Communicate with Conservation Commissions via MACC.
 - Offer guidance to Conservation Commissions where warranted.



- Trail Guide to be completed and circulated
- Continued collaboration between agencies
- Continued Collaboration with MACC.
- Questions?