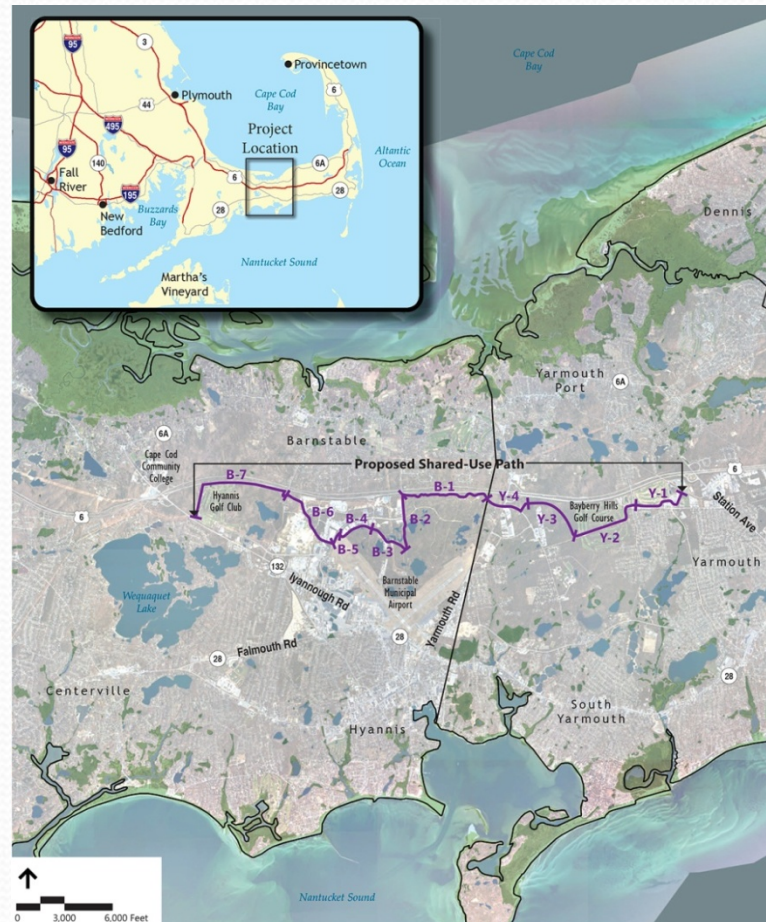


CAPE COD RAIL TRAIL EXTENSION YARMOUTH/BARNSTABLE



Barnstable/Yarmouth CCRT Extension Project Location





PROJECT GOALS

- Shared Use for all pedestrian activities
- Achieve desired design standards
- Satisfy safety and accessibility standards for all users.
- Provide Connectivity to desired destinations



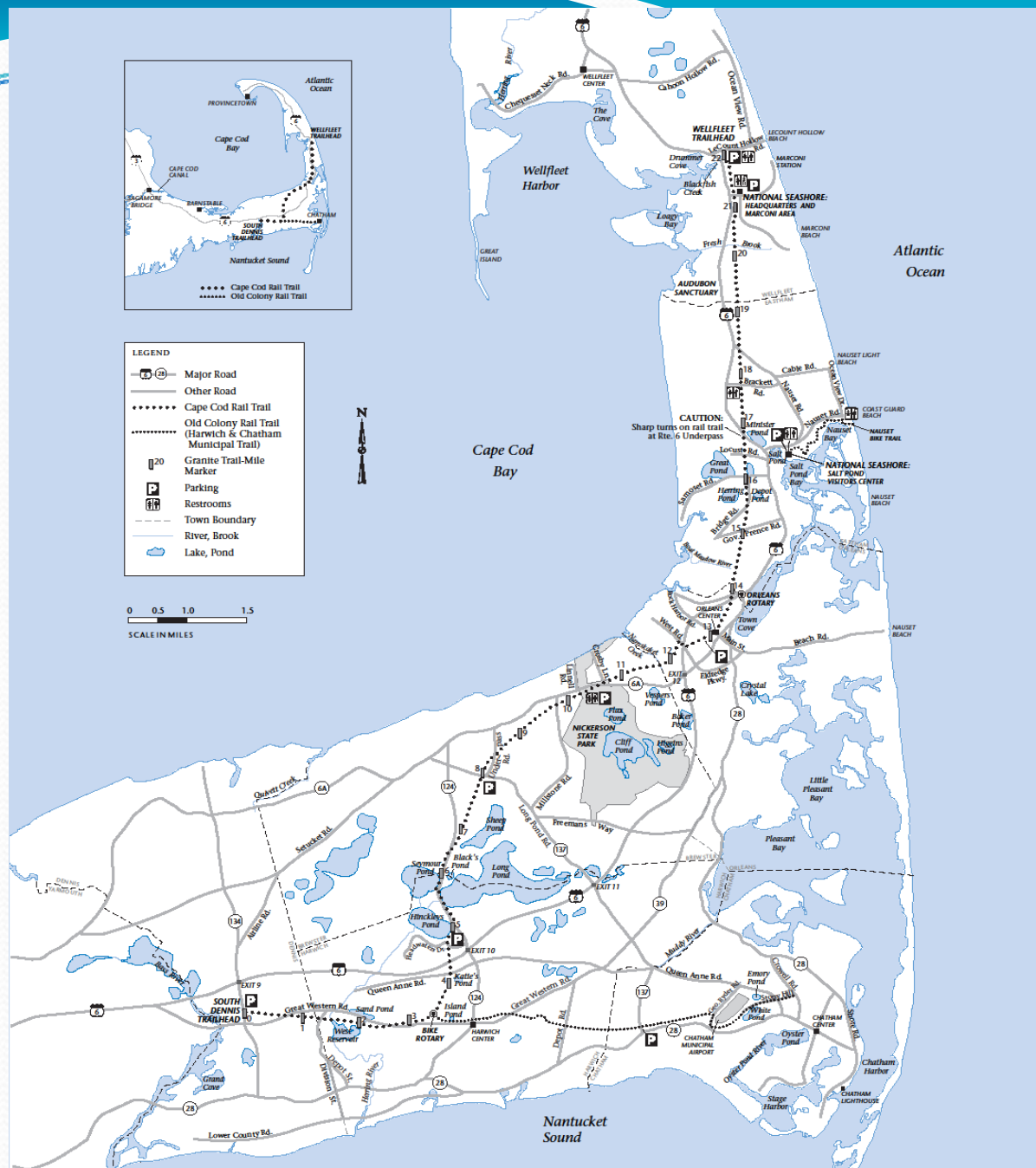
Project Task Force

- Town of Barnstable
 - Lindsey B. Counsell (Bike Path Chairman)
 - Alisha Parker (Growth Management Department)
 - Jo Anne Miller Buntich (Growth Management Department)
 - Ruth Weil and David Houghton (Town Attorneys)
- Town of Yarmouth
 - George Allaire P.E. (DPW)
- MassDOT
 - Pamela Haznar P.E.(District 5 Projects Development)
- Cape Cod Commission
 - Martha Hevenor
 - Glenn Cannon
- Commonwealth of Mass State Legislature
 - Senator Daniel Wolf
- VHB
 - Joe Magni P.E.



Original Cape Cod Rail Trail

- Original Construction (22 miles)
 - Dennis to Wellfleet (1977)
- Connectivity
 - National Seashore
 - Audubon Sanctuary
 - Nickerson State Park
 - Eight (8) Parking Lots
 - Orleans Center



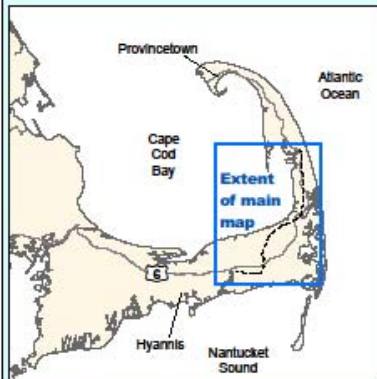


Cape Cod Rail Trail Rehabilitation Project

- **Lead Agency:** Department of Conservation and Recreation
- **Project Costs:** \$5.0 Million
- **Two Phase Construction Schedule**
 - Phase 1 (2005)
 - -Dennis to Nickerson State Park
 - Phase 2 (2007)
 - Nickerson State Park to South Wellfleet

Cape Cod Rail Trail Improvements

Trail Reconstruction
Fall 2005 - Spring 2007



PHASE 2

**CLOSED FOR
RECONSTRUCTION
Fall 2006 - Spring 2007**

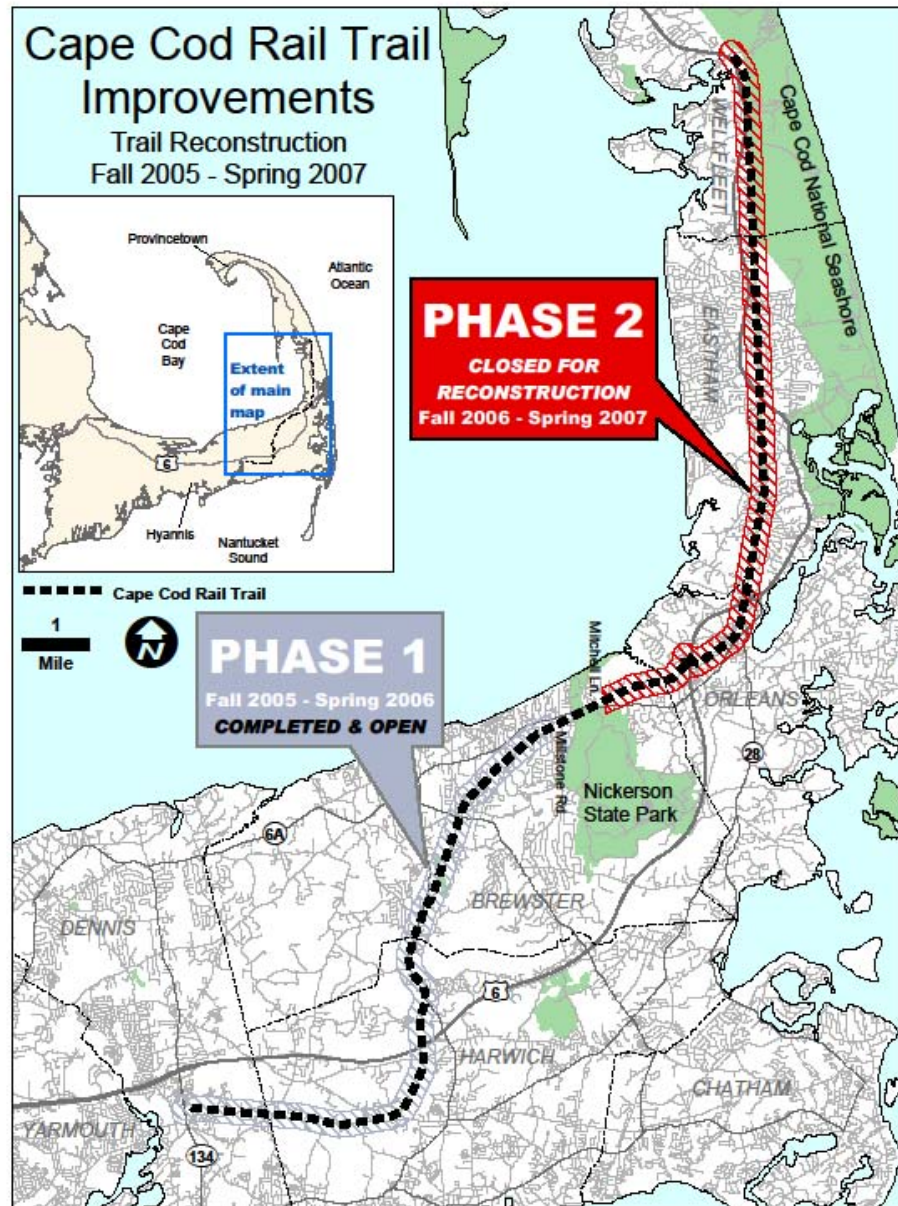
--- Cape Cod Rail Trail

1
Mile



PHASE 1

Fall 2005 - Spring 2006
COMPLETED & OPEN





Cape Cod Rail Trail Extension

Dennis to Yarmouth

- **Limits**

- Dennis (Route 134) to Yarmouth (Station Ave.)

- **Project Costs**

- \$8.0 Million
- State Transportation Improvement Program

- **Project Schedule**

- Design Completion: Summer 2014
- Construction: Fall 2014 to Fall 2016

Yarmouth/Dennis CCRT Extension

25% Design Development

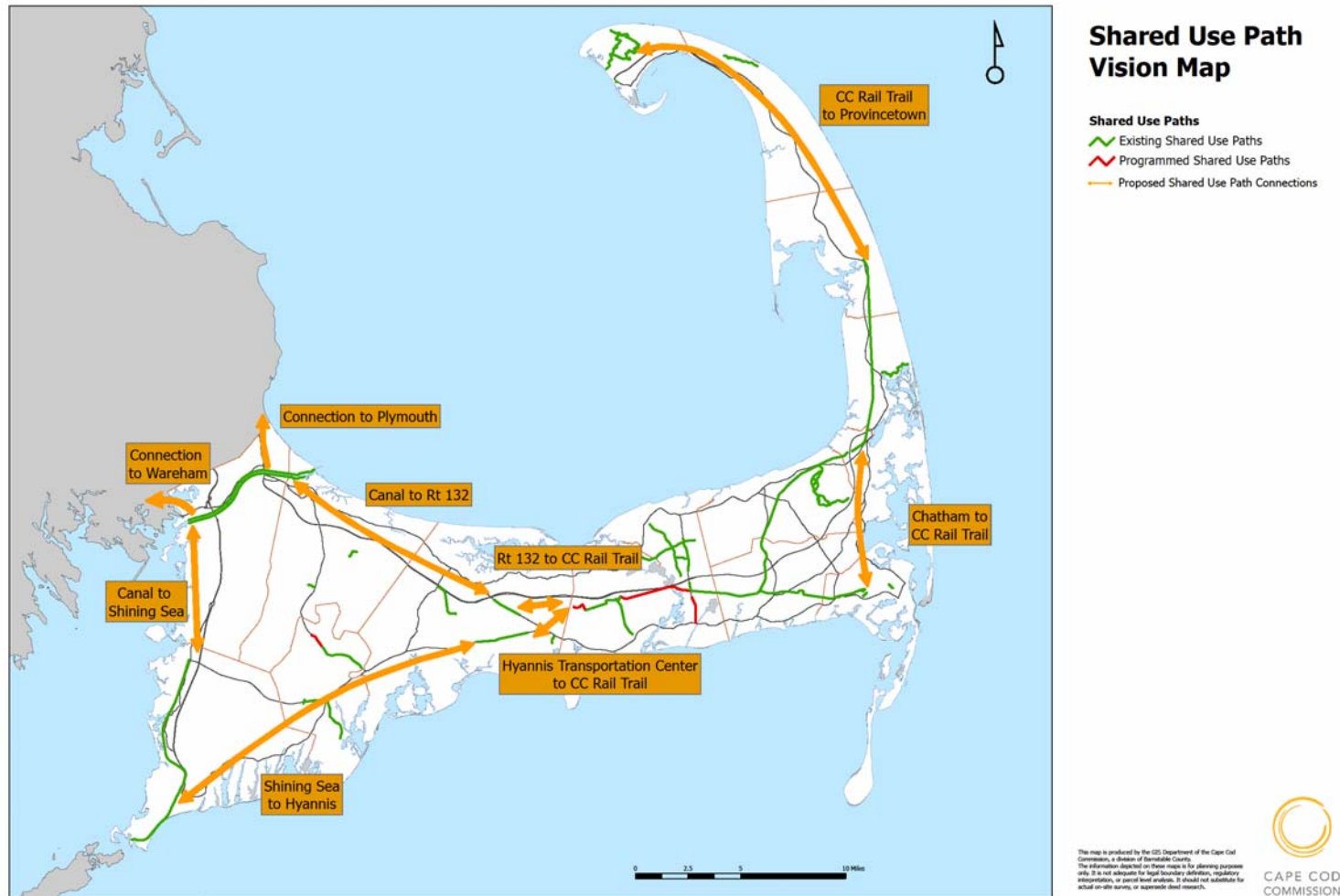




Cape Cod National Seashore Bicycle Feasibility Study

- Planning Team
 - National Park Service
 - Cape Cod Commission
 - 15 Cape Cod Communities
 - Planning/Design Consultant (VHB)
- Study Goals
 - Identify Potential Bike System Improvements
 - Identify Top 40 Projects for further development

Cape Cod Region Shared Use Path Vision Map



Commonwealth of Massachusetts

General Laws

- **Mass General Laws:** Chapter 90E; Section 2a
 - “accommodation of bicycle and pedestrian traffic in the planning, design, and construction, reconstruction or maintenance of any project undertaken by the (MassDOT).”
- **MassDOT Standards**
 - Addition of 4' Shoulders for Bike Accommodations
 - Addition of 5' Shoulders for Bike Lanes



Cape Cod Rail Trail East/West Extension

Station Avenue, Yarmouth to
Iyannough Road (Route 132),
Barnstable

Dennis/Yarmouth/Barnstable CCRT Extension



Barnstable/Yarmouth CCRT Extension: Alternative 1



Barnstable/Yarmouth CCRT Extension: Alternative 2



Barnstable/Yarmouth CCRT Extension: Alternative 3



Barnstable/Yarmouth CCRT Extension: Alternative 4



Barnstable/Yarmouth CCRT Extension: Alternative 5



Barnstable/Yarmouth CCRT Extension: Alternative 6



Cape Cod Rail Trail Extension

Station Avenue in
Yarmouth to Route 132
in Barnstable

Yarmouth/ Barnstable,
Massachusetts

Prepared for **Towns of Barnstable and Yarmouth**

Prepared by **Vanasse Hangen Brustlin, Inc.
Watertown, Massachusetts**

Fall, 2012

Cape Cod Rail Trail Extension Preferred Alternative



Bridge Crossing

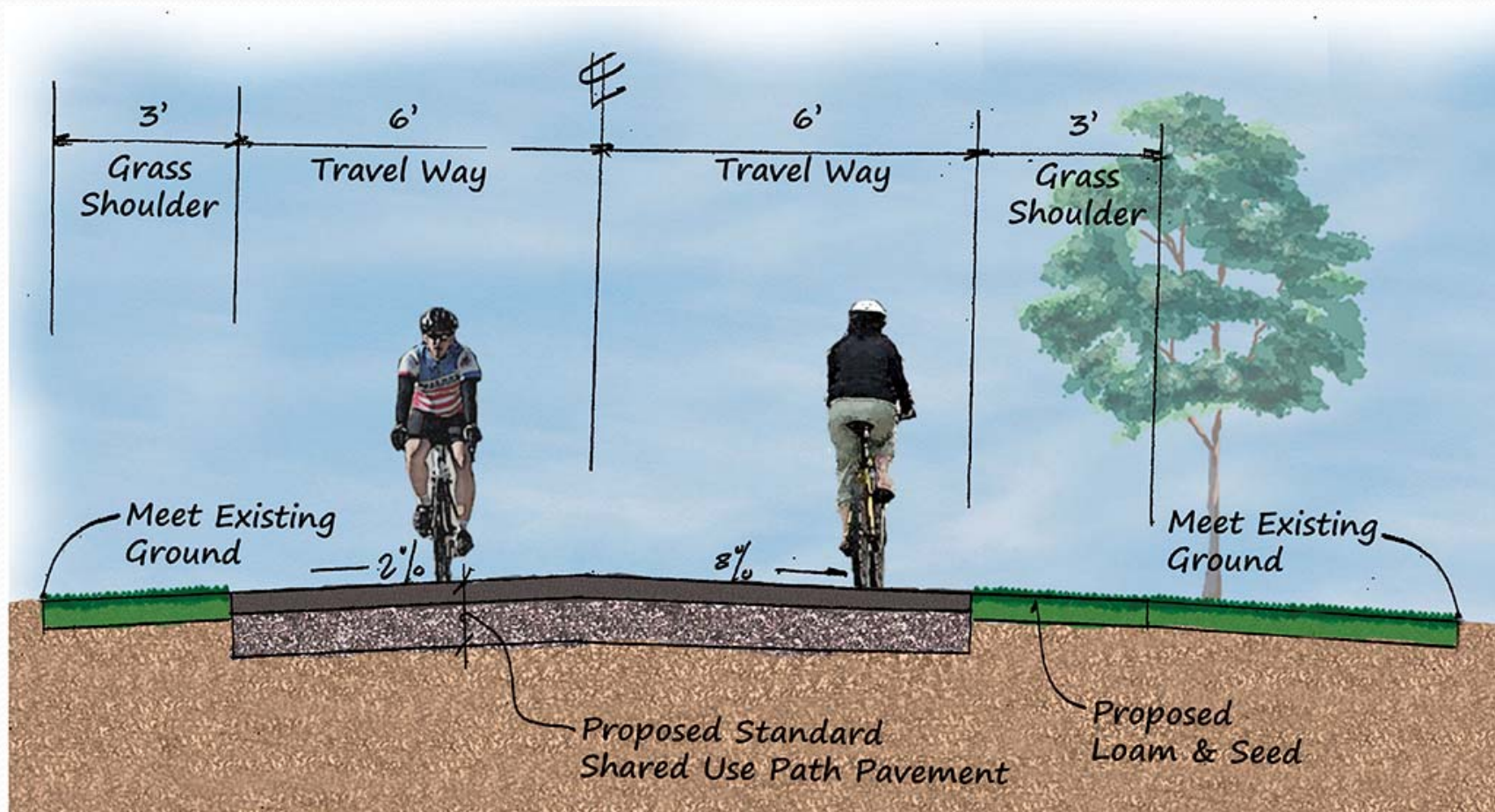


Proposed view looking South
along Route 134 in Dennis, Massachusetts

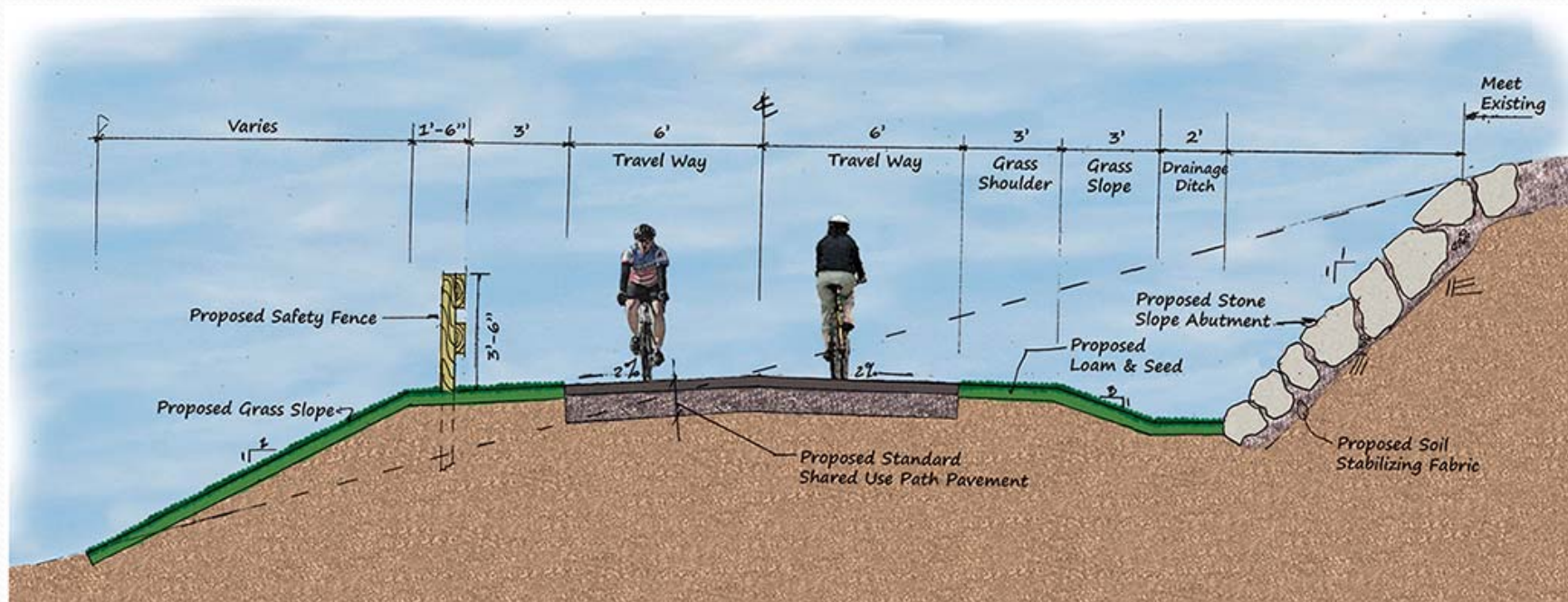


Existing

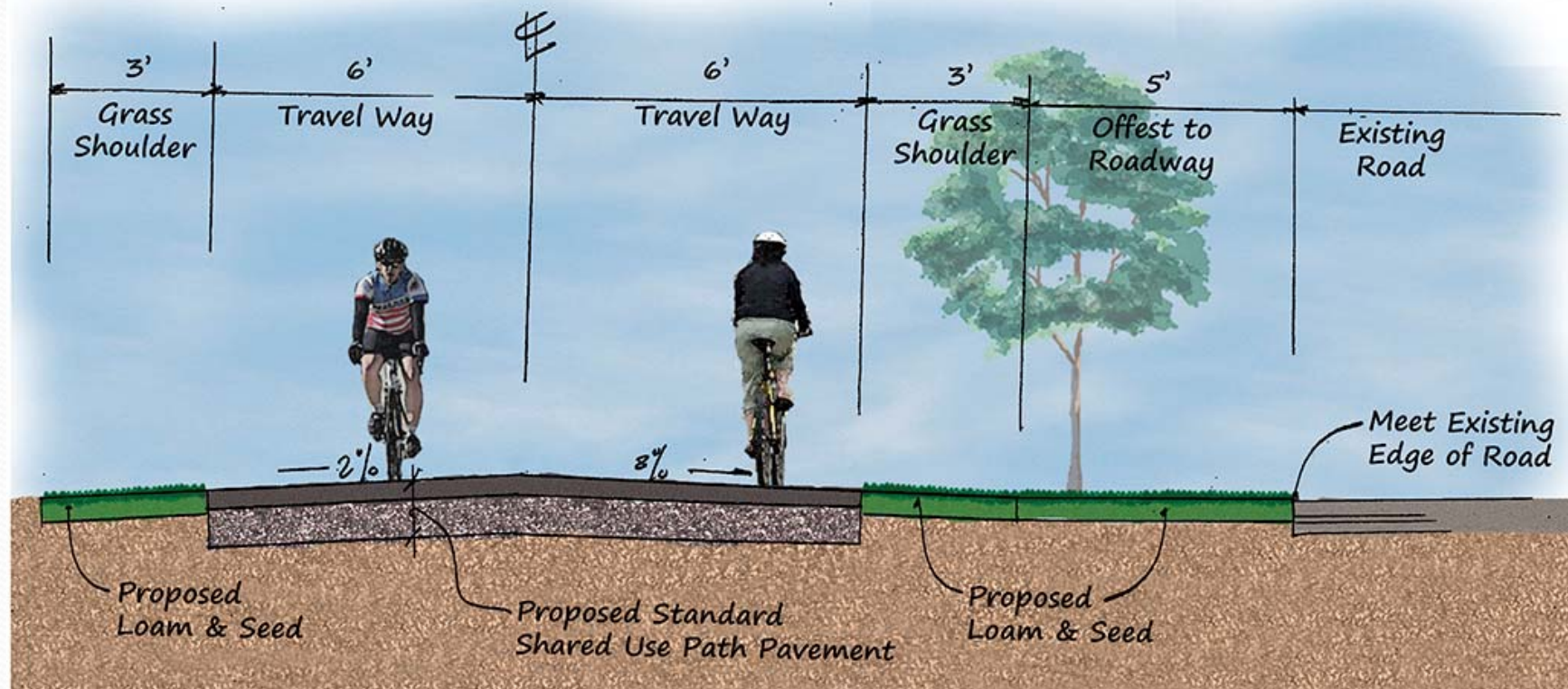
Typical Section



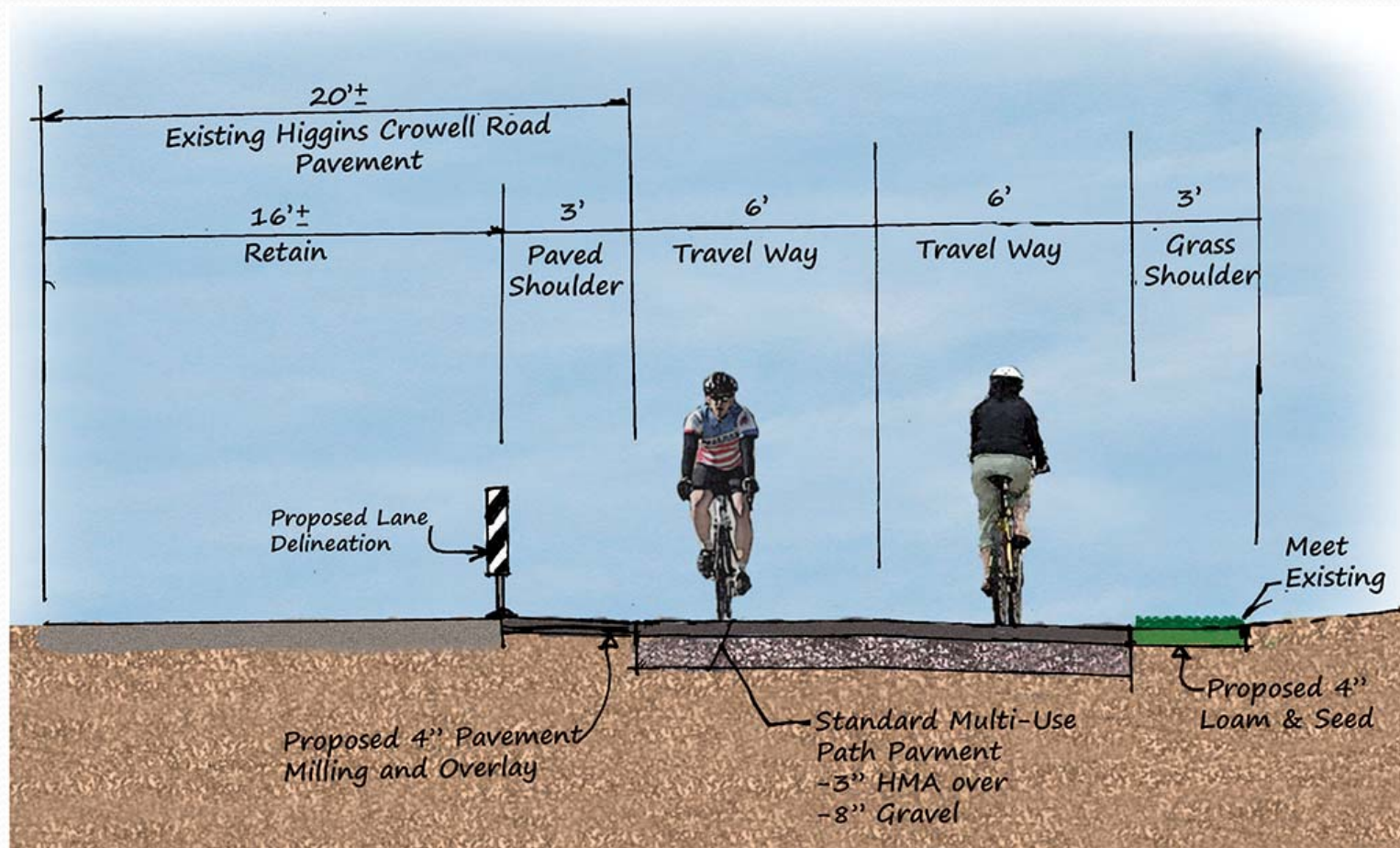
Typical Section



Typical Section



Typical Section





Cape Cod Rail Trail Extension Preferred Alternative Construction Costs

- Single Phase Project: **\$11,070,000**

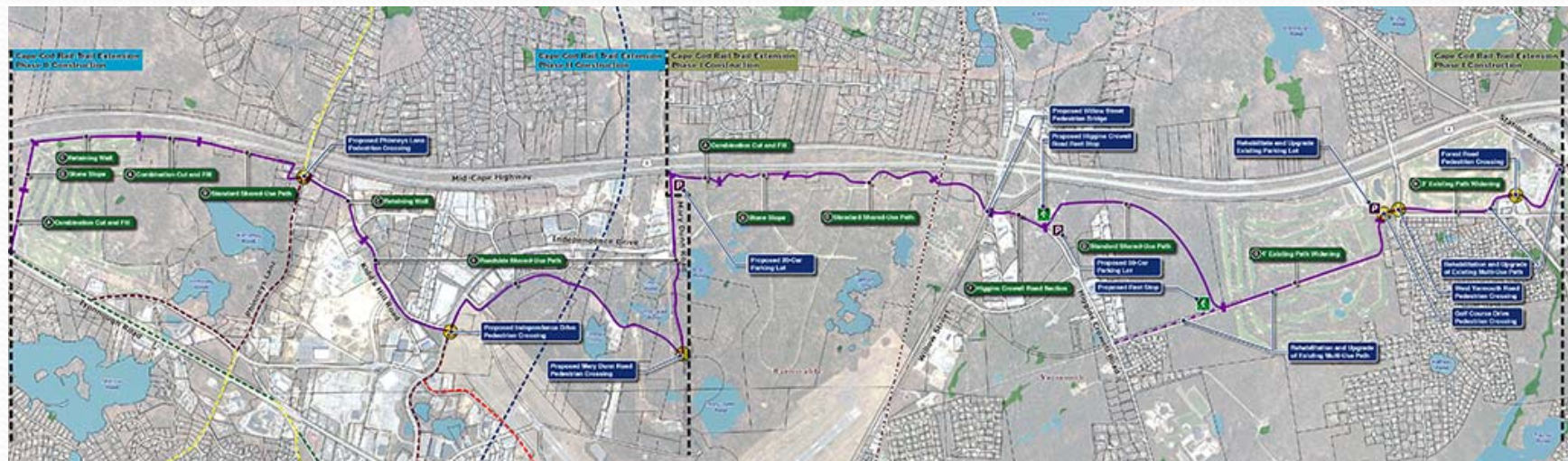


Cape Cod Rail Trail Extension

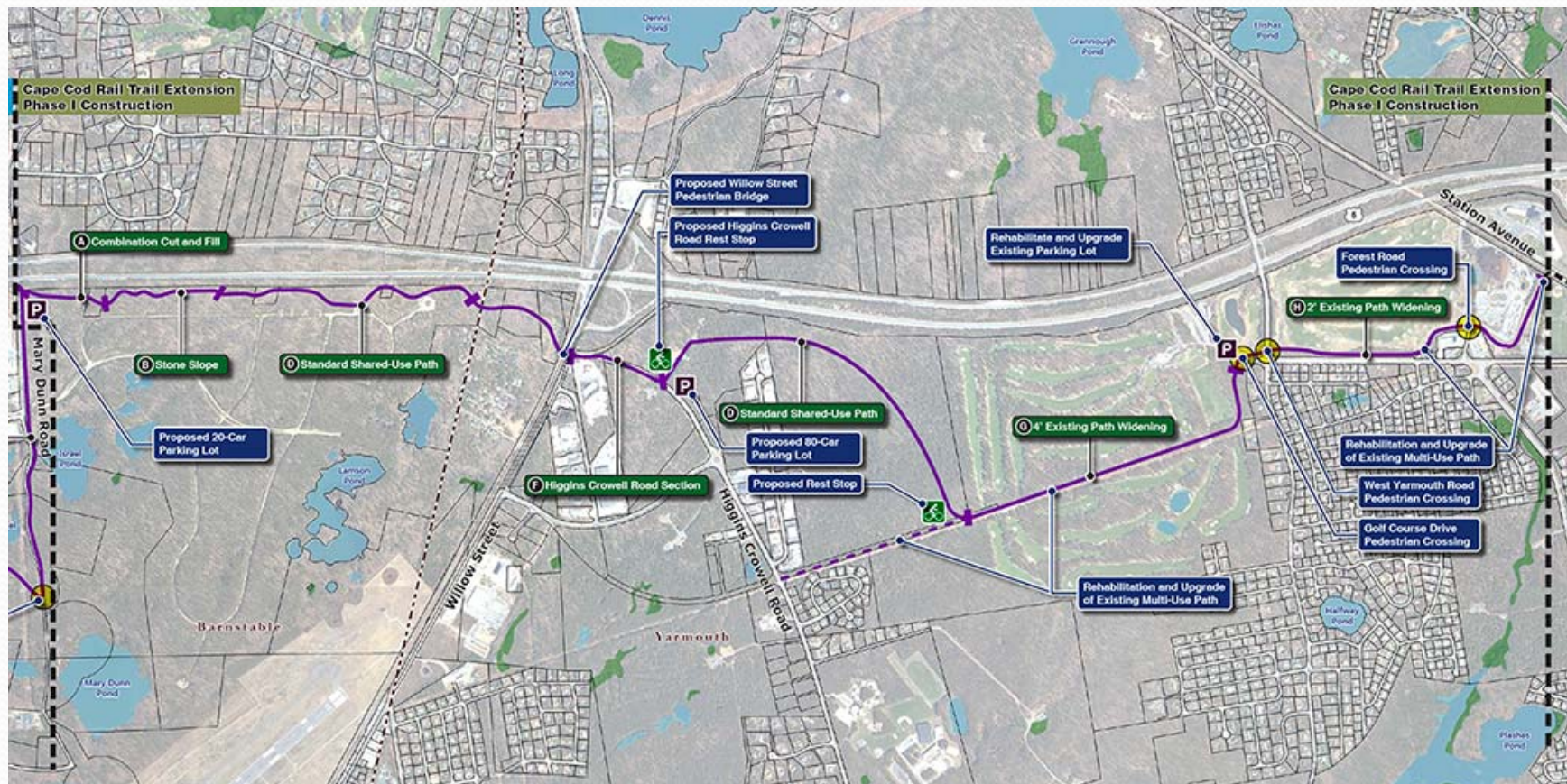
Two Phase Project

- Two Phase Project
 - Phase 1: Station Avenue to Mary Dunn Road
 - Phase 2: Mary Dunn Road to Route 132

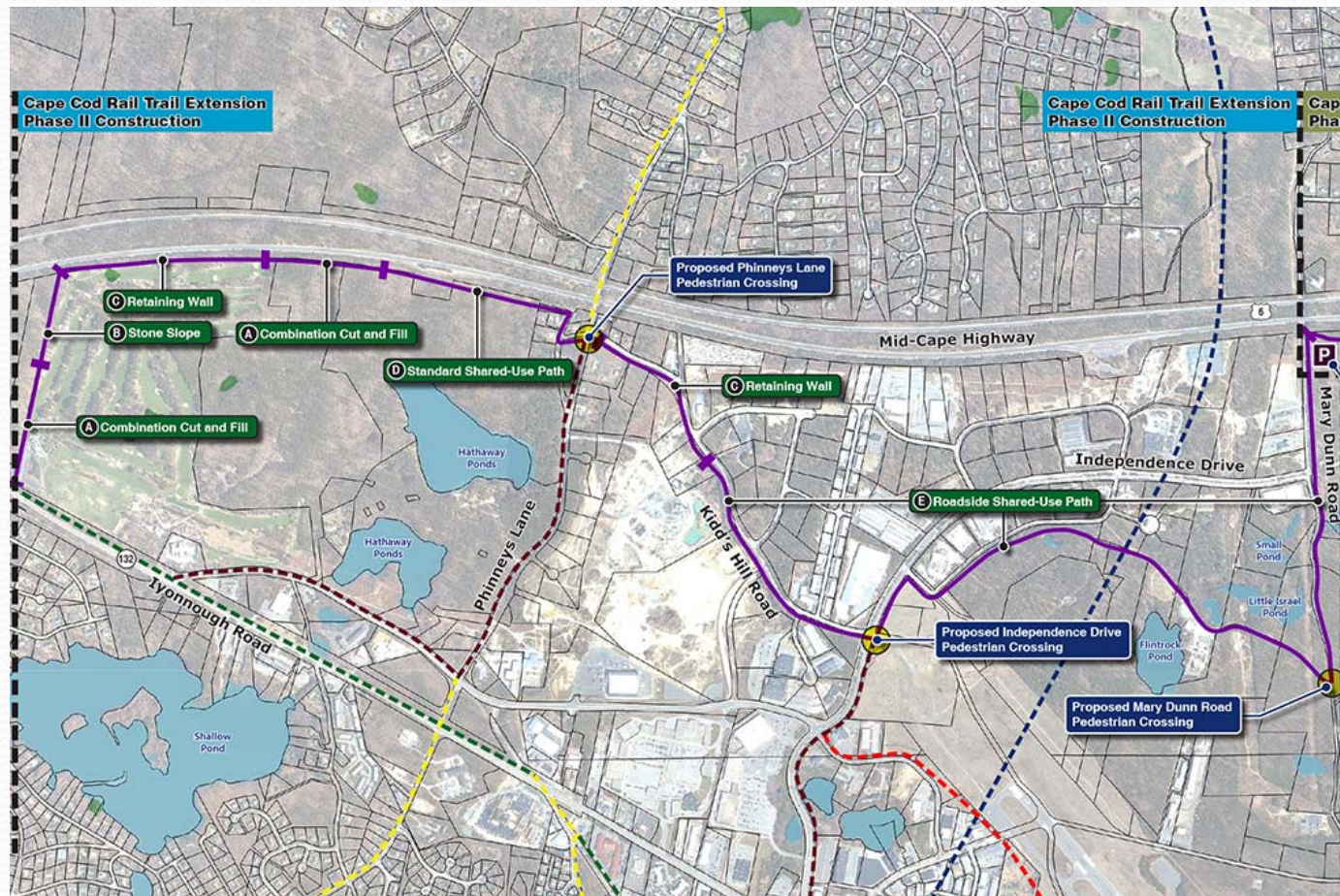
Cape Cod Rail Trail Extension Two Phase Project



Phase 1: Station Avenue (Y) to Mary Dunn Road (B)



Phase 2: Mary Dunn Road to Route 132

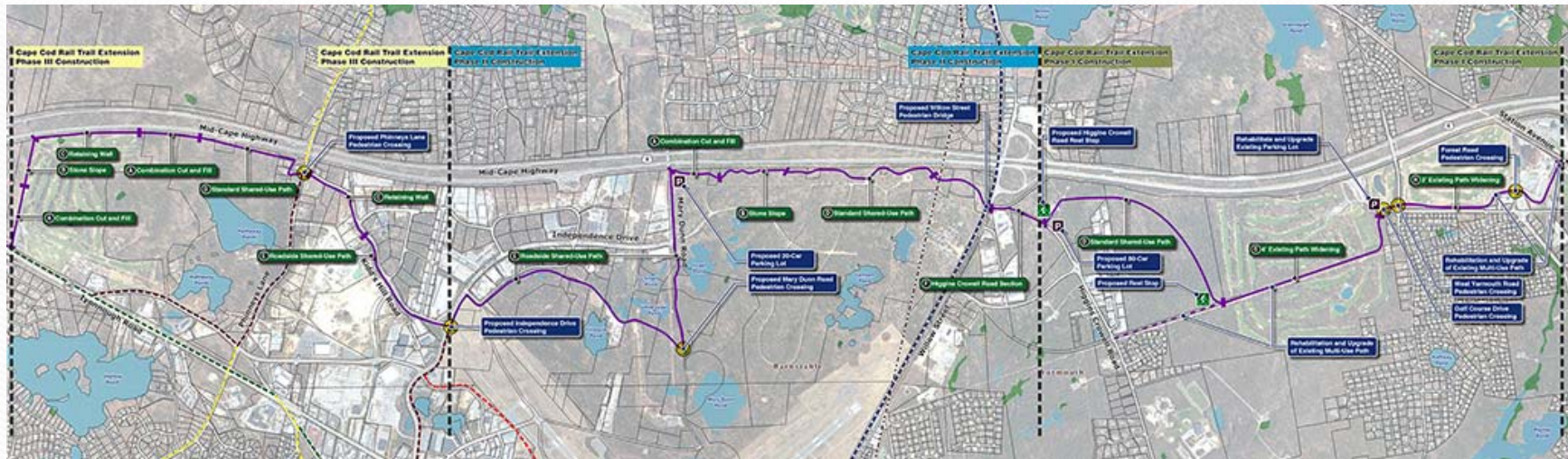


Cape Cod Rail Trail Extension

Two Phase Project: Project Costs

- Two Phase Project:
 - Phase 1: Station Avenue to Mary Dunn Road: **\$6,440.000**
 - Phase 2: Mary Dunn Rd. to Route 132: **\$4,630,000**

Cape Cod Rail Trail Extension Three Phase Project

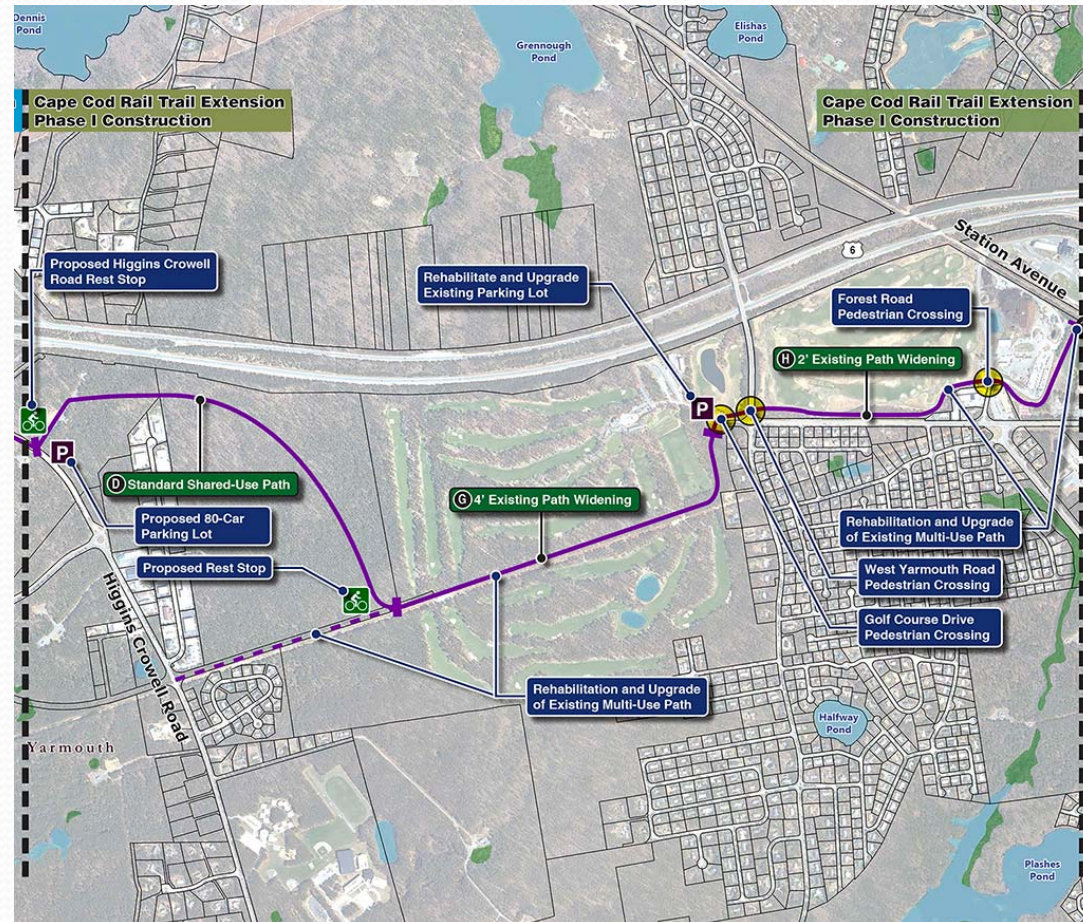




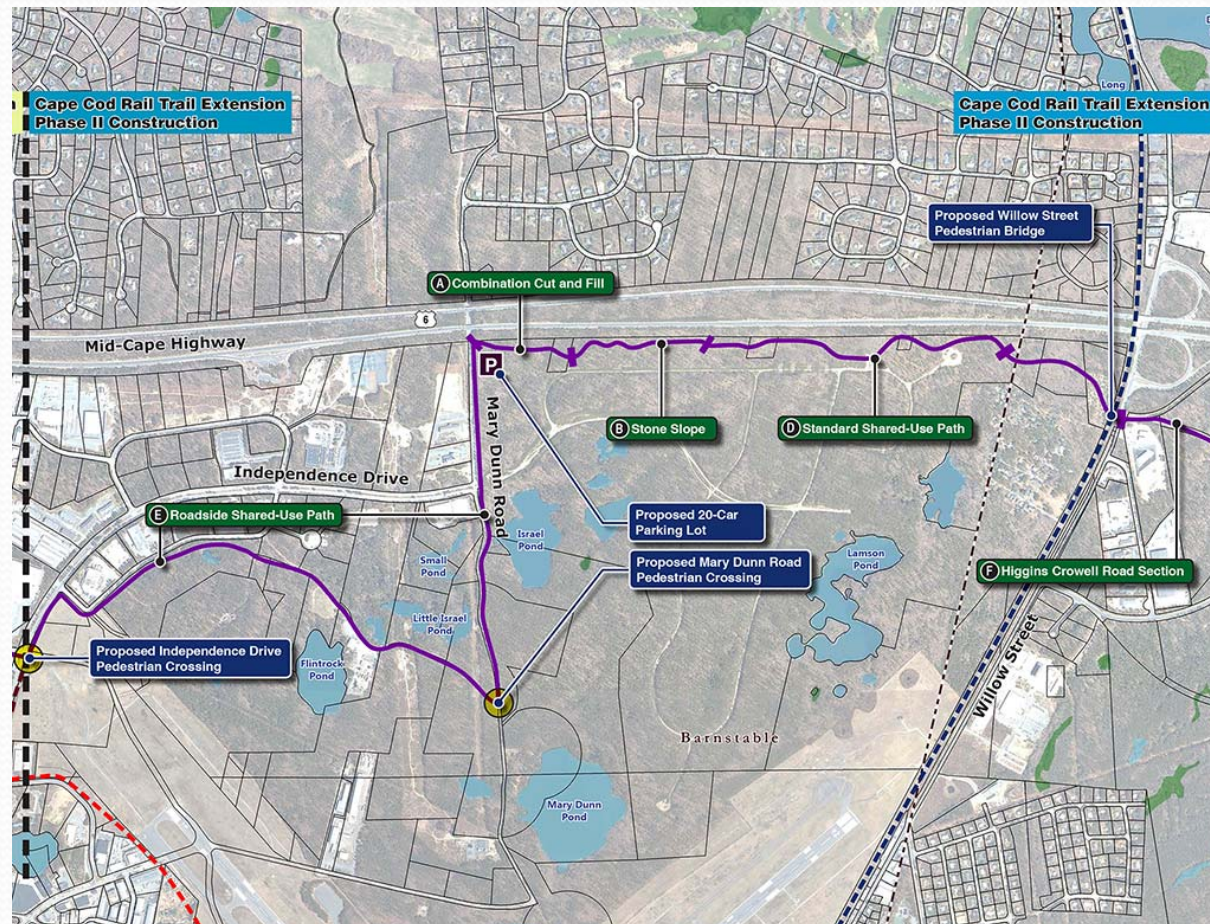
Cape Cod Rail Trail Extension Three Phase Project

- Three Phase Project
 - Phase 1: Station Avenue to Higgins Crowell Road
 - Phase 2: Higgins Crowell Road to Independence Drive
 - Phase 3: Independence Drive to Route 132

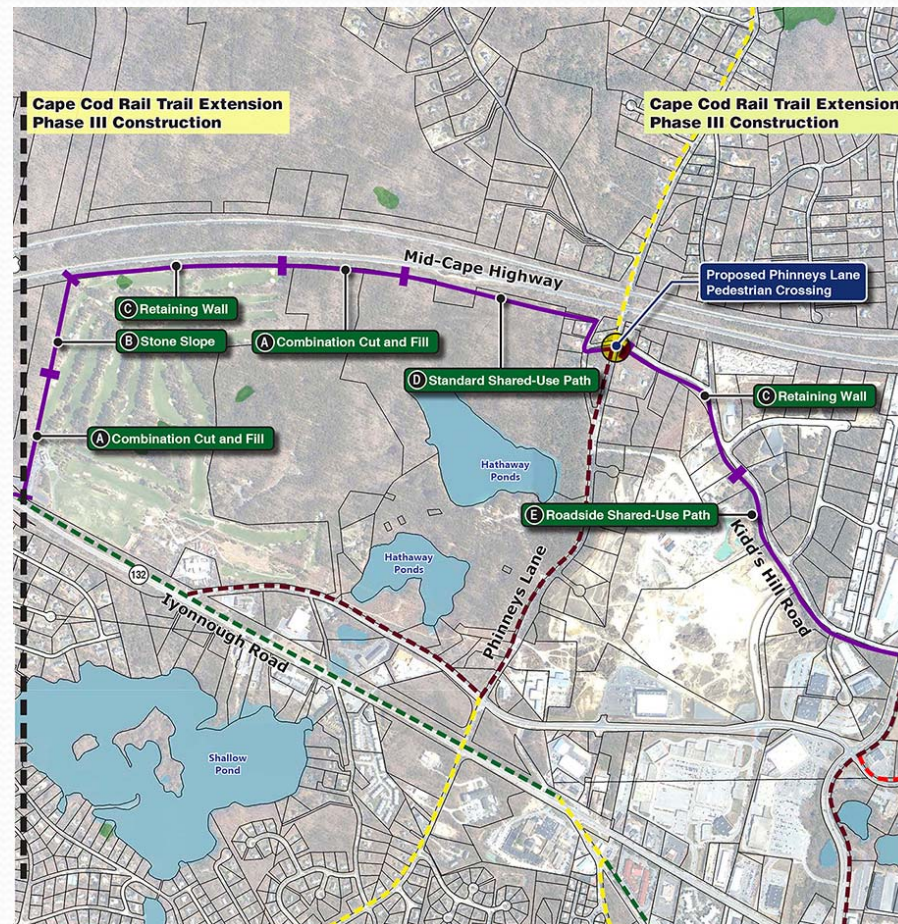
Phase 1: Station Ave to Higgins Crowell Road



Phase 2: Higgins Crowell Road to Independence Drive



Phase 3: Independence Drive to Route 132





Cape Cod Rail Trail Extension

Three Phase Project: Project Costs

- Three Phase Project:
 - Phase 1: Station Ave. to Higgins Crowell Rd.: **\$2,520,000**
 - Phase 2: Higgins Crowell Rd to Kidd's Hill Rd: **\$5,410,000**
 - Phase 3: Kidd's Hill Road to Route 132: **\$3,140,000**



Future Project Development

- **Step 1:** MassDOT and the Cape Cod Commission select preferred project phasing scenario.
- **Step 2:** Prepare and submit Project Initiation Form.
- **Step 3:** MassDOT Project Review Committee programs the preferred alternative
- **Step 4:** JTC and MPO Approval of Program Funds
- **Step 5:** Commence Project Design Development



Potential Project Schedule

Activity

- PIF Submission
- MassDOT PRC Approval
- CCMPO Funding Approval
- Survey/Design/Permits
- Construction

Date

Spring, 2013

Summer, 2013

Fall, 2013

2014 to 2017

2017 to 2019