

Pedestrian / Equestrian Bridge over Ipswich River Bradley Palmer State Park



DCR Public Meeting
June 29, 2011 6:30 p.m.– 8:00 p.m.
Ipswich Town Hall



Commonwealth of Massachusetts

Governor

Deval L. Patrick

Lieutenant Governor

Timothy Murray

Energy and Environmental Secretary

Richard K. Sullivan, Jr.

Department of Conservation and Recreation Commissioner

Edward M. Lambert, Jr.



DCR Mission Statement

*To protect, promote and enhance our
common wealth of natural, cultural
and recreational resources.*

Overview

- History - Bradley Palmer, Esq. donated the land to the Commonwealth of Massachusetts between 1937 and 1944.
- 721 acres
- 83,000 visitors to park last year



Facilities and Activities

- Miles of walking, biking, and horseback trails; equestrian events; accessible trails
- Bradley Palmer mansion, barn, and garage
- Colonial farmhouse
- Wading pool



Recent Park Enhancements

- Handicap accessible trail
- 3 Historic Curatorships – including mansion
- Trail improvements
- Future improvements to the wading pool



Purpose of Meeting

- Review project goals/public benefits
- Present project scope/elements
- Describe project schedule
- Provide information on construction impacts and mitigation plans
- Answer questions and provide contact information

Project Goals / Benefits

- Improve public safety by structurally restoring a bridge that functions as a vital trail link in the DCR Bradley Palmer State Park and Willowdale Forest
- Upgrade visitor experience in the area



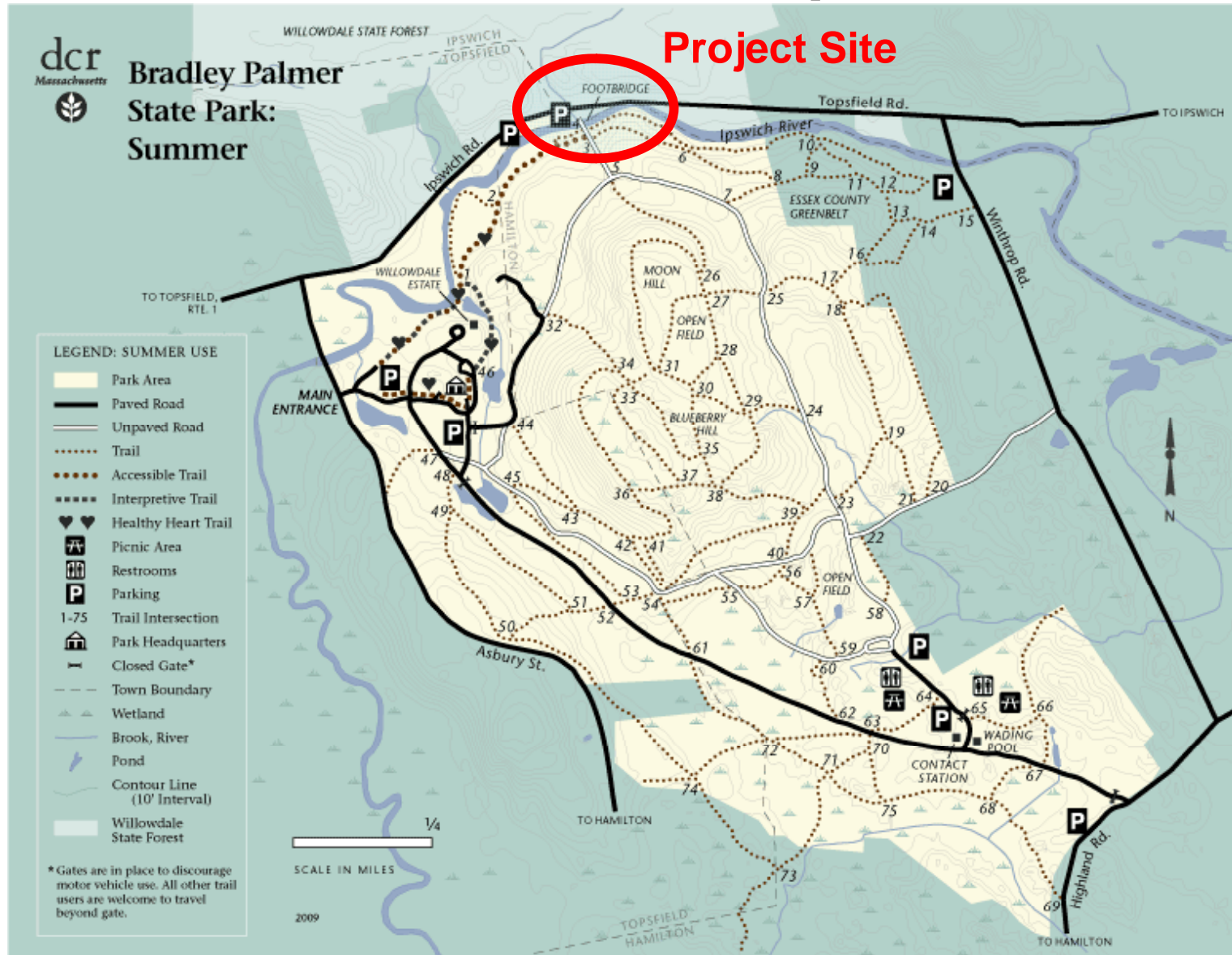
Project Funding

- Commonwealth of Massachusetts Accelerated Bridge Program (ABP)
- Construction Project Cost: \$347,100

Project Team

- Structural Design, Project Management: Simpson Gumpertz and Heger Inc.
- Structural Inspection: C&C Consulting Engineers, LLC
- Underwater Inspection: Childs Engineering
- Environmental Permitting: Epsilon Associates, Inc.
- Contractor: T Ford Company, Inc.

Locus Map



Description of Bridge

- Two-span steel-beam pedestrian / equestrian bridge with wood deck on masonry abutments and a masonry pier
- Year of construction unknown



Existing Conditions

- Steel beams are in good condition
- Wood deck and railings are deteriorating
- Large portion of stone-masonry pier is missing, causing a public safety hazard

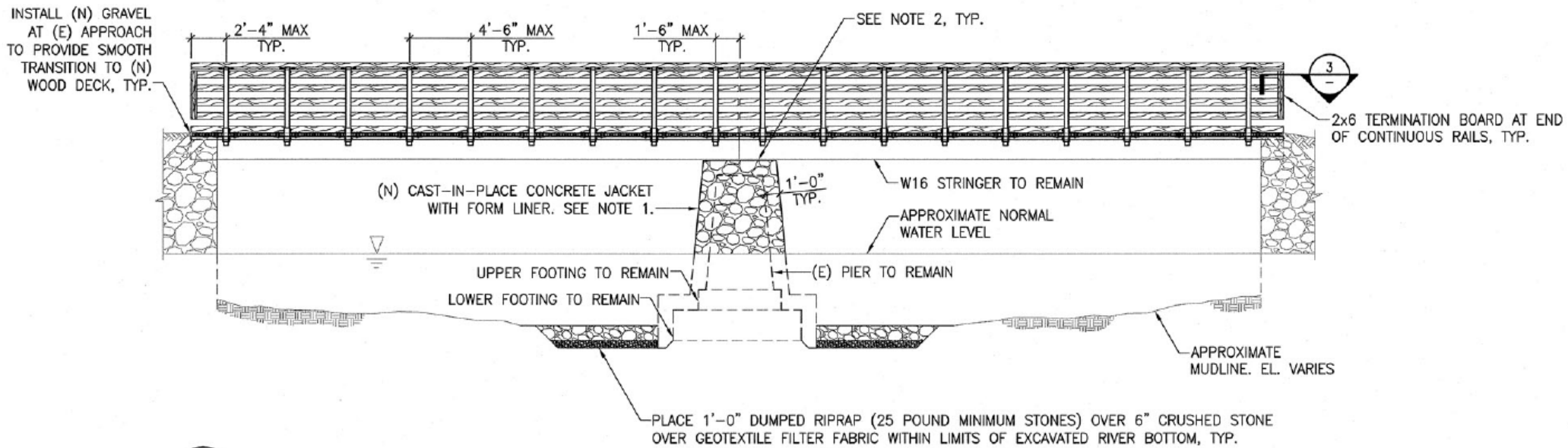


Considerations for Design

- Minimize construction duration and cost
- Working near the water
 - Minimize environmental impacts
 - Maintain recreational boating during construction

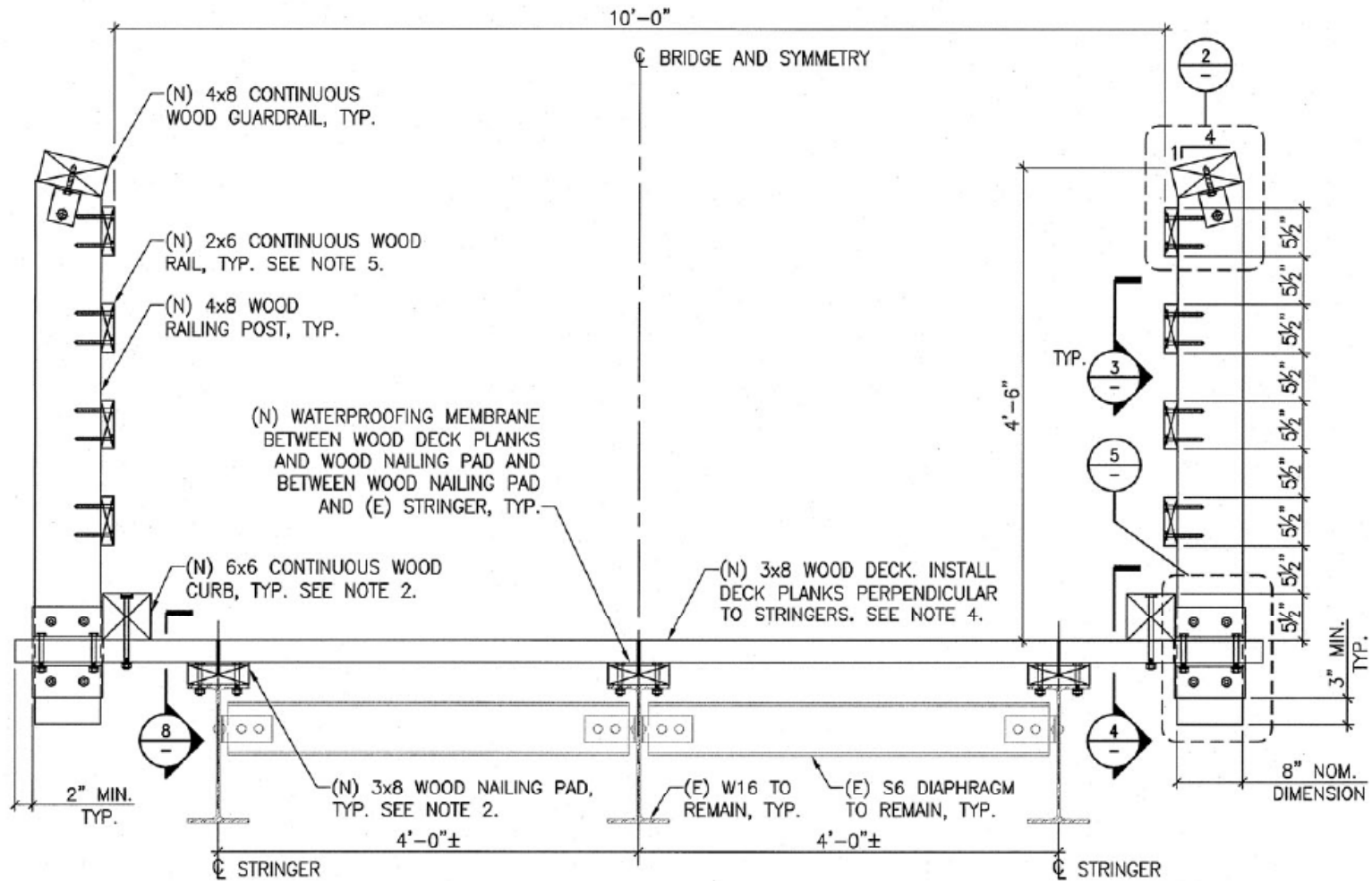
Project Scope / Elements

- New reinforced concrete pier “jacket”
- Stone riprap protection around pier
- New wood deck and railings



2 PROPOSED EAST ELEVATION
3/16" = 1'-0"

Bridge Design



1 SECTION - EXISTING STRINGERS WITH NEW WOOD DECK AND 4'-6" RAILING
S-3 1"=1'-0"

Bridge Design



Similar proposed wood deck and railing details from a recently completed ABP project

Anticipated Project Construction Schedule

- Notice to Proceed: June 2011
- Construction involving work in river and around wetland resources: July 1 – October 1, 2011
- Work completed: November 2011

Special Considerations / Mitigation During Construction

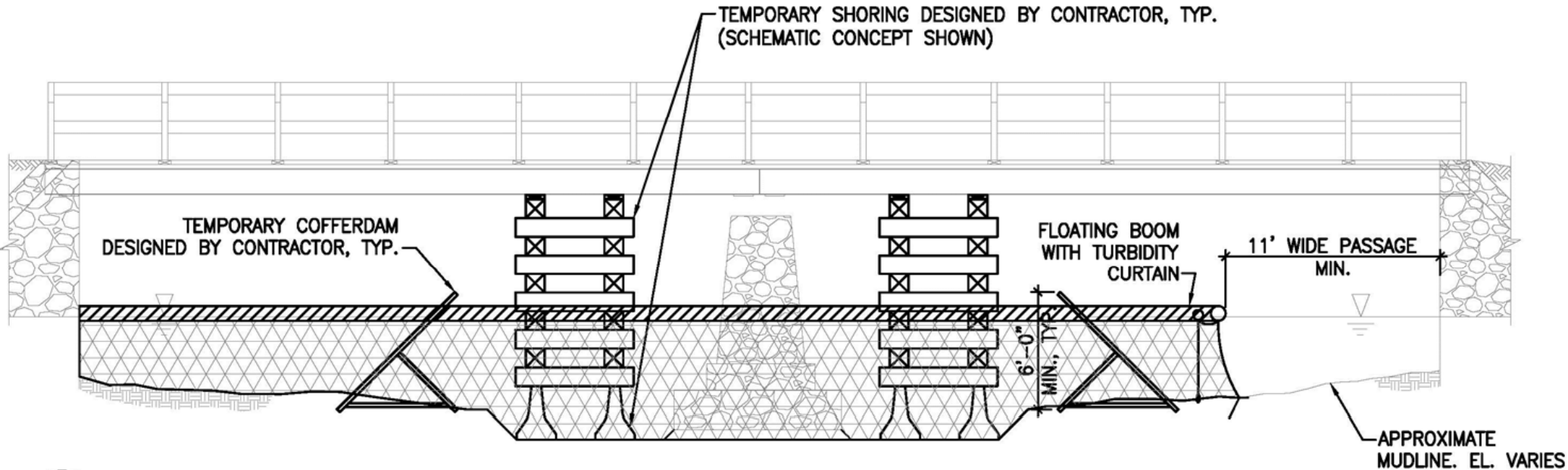
- Visitor Impacts
 - Parking along Ipswich Rd. limited
 - Trail access will be maintained
 - Parking still available inside Bradley-Palmer State Park
- Boaters
 - 11-ft-wide access minimum

Special Considerations / Mitigation During Construction

- Noise abatement
 - No night or weekend work proposed
- Environmental impacts on river banks
 - Erosion control measures at dewatering basin
- Environmental impacts on river aquatic life
 - Pier work done “in the dry” (Portadam or equal)
 - Floating turbidity curtain surrounding work area

Special Considerations / Mitigation During Construction

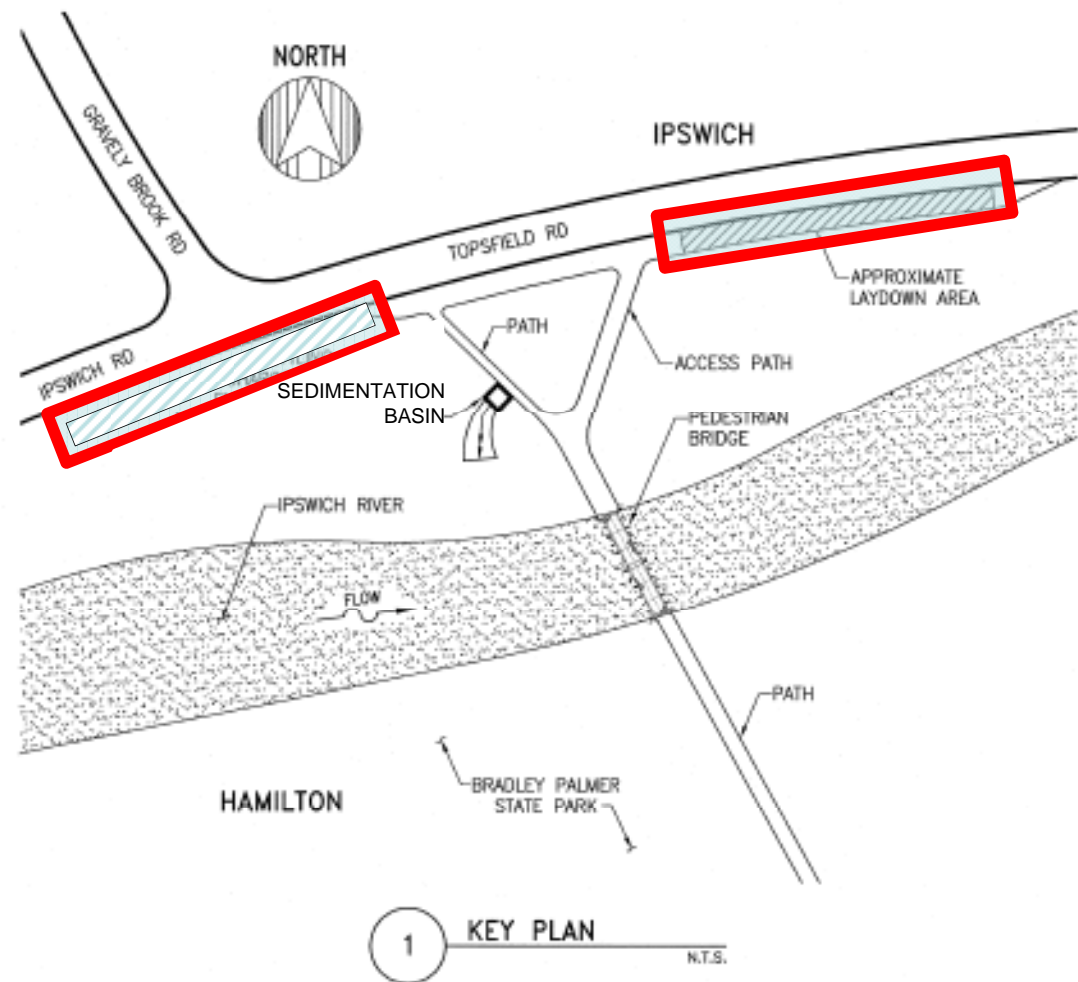
- 11" Wide Boat Passage



2 CONSTRUCTION ELEVATION $\frac{3}{16}'' = 1'-0''$

Special Considerations / Mitigation During Construction

- Contractor Access
 - Contractor **lay-down and staging area** will be located on south side of Topsfield and Ipswich Roads
 - Construction vehicles will access the bridge site using the existing paths



Questions & Answers

Additional Information

For more information:

– Web:

<http://www.mass.gov/dcr/news/publicmeetings/bridgematerials.htm>

If you have questions, concerns, or suggestions:

– phone: 617-626-4974

– e-mail: dcr.updates@state.ma.us

– Note: Public comments submitted to DCR by email or letter will be posted on the DCR website in their entirety, and no content, including personal information, will be redacted.