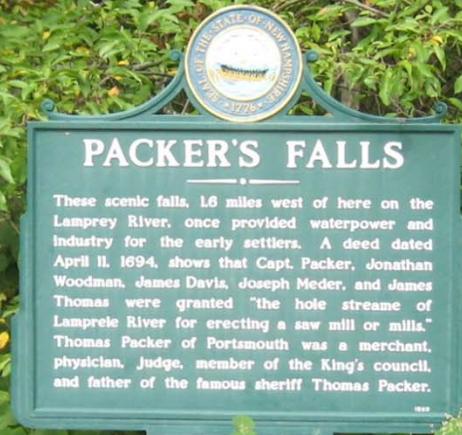


Durham-Newmarket 13080-A

NH Route 108



Transportation Enhancement Project

Project Update

March 6, 2013



Agenda

- Introductions
- Technical Presentation
 - Project Limits
 - Existing Conditions
 - Project Goals
 - Project Challenges
 - Property impacts
 - Environmental Issues
- Project Costs and Schedules

Project Team

- Design Consultant - CHA - Clough Harbour and Associates
- In-house staff design review and guidance
- In-house Right-Of-Way staff
- In-house Environmental staff
- In-house Utility Relocation/Coordination

Technical Presentation Agenda

- Thank you and introductions
- Color Plan Review
- Project Overview
- Review of Existing Conditions
- Project Goals
- Project Constraints / Controls
- Project Challenges
- ROW Impacts
- Environmental Issues
- Cultural Issues
- Looking Ahead

Color Plan Review

- Review of Color Legend
 - Travel Lanes – Yellow
 - Shoulders – Brown
 - Slope Limits – Darker Green
 - Driveway Construction Limits – Orange
 - Wetlands – Blue Hatch
- Plan Orientation – North to the right

Project Limits

- Overall Corridor – Route 108
 - Newmarket to Durham – 3.65 miles
 - Bay Road to north of Durham Point Road
 - 2 Contracts – A & B
- Contract A
 - 1.17 miles
- Contract B (to be presented at a later date)
 - 2.48 miles

Project Limits

- Contract A
 - 1.17 miles
 - 300' north of Stagecoach Road to
 - 300' north of Longmarsh Brook Bridge
 - Includes Bennett Road & Longmarsh Road intersection match
- Includes “Flats” Area
 - Station 572+00 to 617+00



Existing Conditions

- Roadway Classification
 - Rural, Major Collector
 - Provides a linkage between cities, larger towns and other traffic generators
 - Durham & Newmarket
- Speed Limit (Design Speed)
 - 45 mph – Southern limit to just prior to Bennett Road
 - 35 mph – Prior to Bennett Road to Northern limit

Existing Conditions

- Existing Typical Section
 - 11' Travel Lanes
 - 0' – 4' Shoulders – mainly Gravel
- Project Corridor / Evolution of NH Roads
 - Horizontal Alignment
 - Vertical Alignment
 - Sandwich of extremely flat terrain (less than 0.3%) between rolling terrain
 - Cross Slope / Superelevation



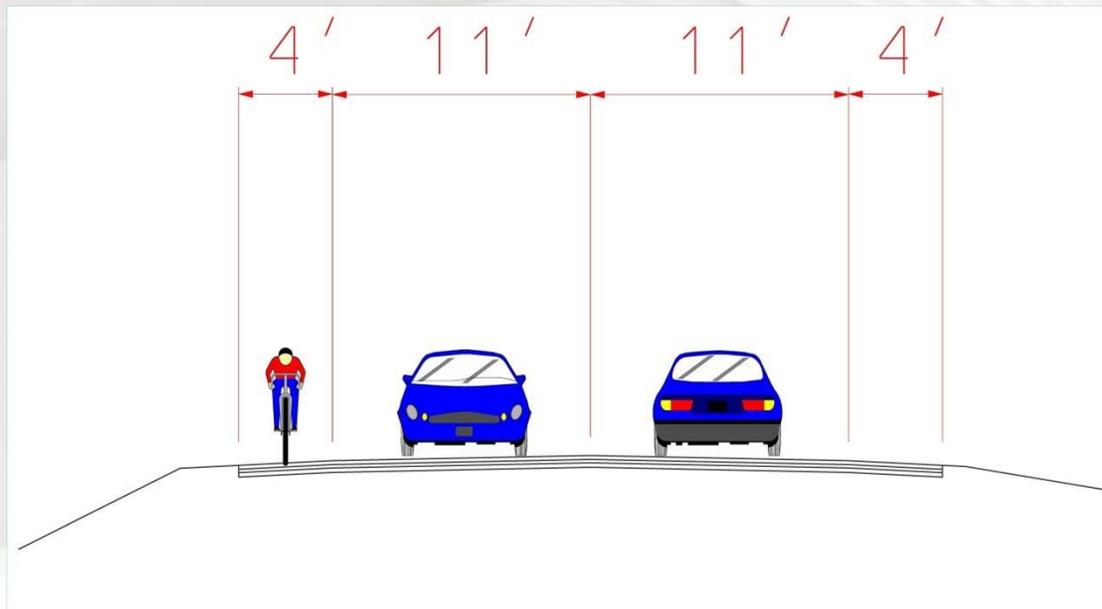
Project Goals

- Provide additional width for:
 - Vehicles
 - Bicycles
 - Pedestrians



Project Goals

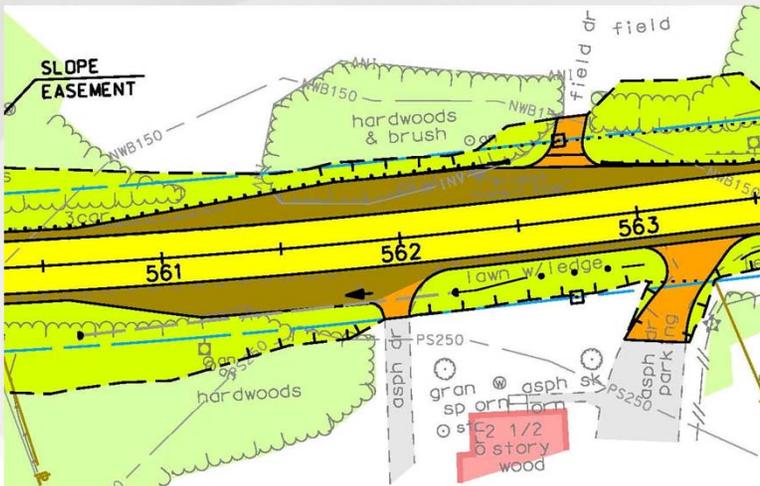
- Proposed Typical Section
 - 11' Travel Lane with 4' Paved Shoulder



Project Goals

- Formalize and improve Wildcat Transit Bus Pull Offs

Contract A: 8 locations



Project Goals

- Improve the following:
 - Pavement Condition / Structural Box
 - Clear Zone / Side Slopes / Guardrail
 - Drainage – open and closed systems



Project Constraints / Controls

- Closely Mimic Existing Geometry
- Right-of-Way (ROW)
- Wetlands
- Utility Poles



Project Constraints / Controls

- Rock Outcroppings
 - Station 568+00 RT
 - Station 619+00 LT
 - Station 628+00 LT
 - Station 636+00 RT
- Existing Bridge over Longmarsh Brook (Profile Control)



Project Challenges

- Balancing improvements to Route 108 against impacts to properties
 - Horizontal Alignment
 - Closely mimics existing layout
 - Vertical Alignment
 - Improving sight distances – Crest & Sag
 - Creating vertical geometry in the “Flats”
 - Reclaiming existing pavement / profile control

Right-of-Way Impacts

- Avoid or minimize ROW impacts through design alternatives
 - Modified ditch sections
 - Re-routing drainage
- Unavoidable in all locations

Right-of-Way Impacts

- Easements
 - Permanent and Temporary
 - Drainage
 - Slope
 - Stone Wall
 - Driveway
 - Sight Line
- Acquisitions – minimized but 1 required

Environmental Issues

- Wetland Impacts
 - Minimized using 4:1 slopes
 - Clearing to Slope Limits
- Prime Turtle Habitat



Blanding's Turtle

Environmental Issues

- Invasive Species Program
 - Started Fall 2011
- Vegetation Management



Japanese Knotweed



Dense Roadside
Vegetation

Cultural Issues

- Historic District
 - Doe-Mooney-Dame-Stevens Farms
- Stone Walls
 - Reconstruction



Looking Ahead

- Finalize Design
- Utility Coordination
- Environmental Permitting
- ROW Process
- Prepare for Contract Advertising
- Construction

Current Project Cost and Schedule

13080-A

- \$2.42 million
 - 80% Federal / 20% State
 - No Town funds
- Final Design plans – Ongoing
- Right of way acquisition – Ongoing
- Advertise project for bids – **April 1, 2014**
- Begin Construction – June 2014

Current Project Cost and Schedule

13080-B

- \$4.6 million
 - 80% Federal / 20% State
 - No Town funds
- Final Design plans – 2013 / 2014
- Right of way acquisition – 2013 / 2014
- Advertise project for bids – **September 9, 2014**
- Begin Construction – April 2015

Coordination with Town

- Municipal Work Zone Agreement (MWZA)

Thank You

Plans and presentation are available on
Internet

<http://www.nh.gov/dot/projects/specifics.htm>