

# Improvements to Nagog Hill Road

*Local Concerns Meeting Presentation*

*July 1, 2015*



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*Civil and Structural Engineers*



# Purpose of Meeting

- Provide overview of project
- Present a conceptual design
- Hear concerns abutters have that we may not be aware of
- Obtain comments and input on Conceptual Design from abutters before proceeding to 25% Design Plans



# Nagog Hill Road

## Existing Conditions

- Length of project is about 7,000 feet (1.3 Miles)
- Local Road
- Posted speed limit 20 & 30 mph
- Scenic Roadway
- Pavement widths vary between 17' and 25' (mostly about 20-22')
- Pavement condition is poor



# Nagog Hill Road

## Existing Conditions

- Substandard vertical profile in locations
- Roadway Right-of-Way varies (30 ft – 35 ft)
- Numerous stone walls, utility poles and mature trees
- Numerous environmentally sensitive areas
- Conservation land
- Mix of country drainage and closed drainage
- Poor sight distance at Fort Pond Road
- Unconventional intersection geometry at Newtown Road



# Design Objectives

## Do this...

- Design to posted speed limits (where possible)
- Improve failing pavement structure
- Improve sight distances, drainage and overall safety
- Provide consistent roadway width

## While doing this...

- Maintain Scenic Roadway character
- Minimize disturbances to wetlands, environmental resources and abutters
- Retain and protect stone walls
- Minimize impacts to existing trees



# Conceptual Design

- Full depth reconstruction or pavement reclamation
- Consistent 20-foot pavement width
- Improve vertical alignment
- Maintain existing speed limits
- 25 mph design speed between Acton Town Line and Nashoba Road (where possible)
- 35 mph design speed between Nashoba Road and Newtown Road (where possible)
- Improve intersection geometry and sight distances
- Provide soft shoulder for pedestrians, where possible
- Replace existing drainage
- Provide new signage



# Summary of What's Next

- Complete 25% Design Submission incorporating as many comments as possible from tonight's meeting
- Complete Environmental Permitting and Submit NOI
- Anticipated construction start is Spring 2017
- Estimated construction cost is \$2.1 million (2017 dollars)



# Questions/Comments

