

# Wolfeboro 29615

## NH Route 28 Improvements

Public Advisory Committee Meeting

December 5, 2019



# Agenda

- Welcome and Introductions
- Public Involvement Plan & Public Advisory Committee
- Design Process
- Project History & Concerns
- Project Scope & Key Considerations
- Schedule & Next Steps

# Welcome and Introductions

- Town of Wolfeboro
  - Dave Ford, PE,  
Director of Public Works
  - Matt Sullivan,  
Director of Planning and Development
- NHDOT
  - Don Lyford, PE,  
Project Manager
  - Tobey Reynolds, PE,  
Chief of Roadway
  - Stephanie Micucci,  
PE, Project Engineer
  - Jason Ayotte, PE,  
Project Engineer

# Public Involvement Plan

- Identify Project Team, Project Advisory Committee, & Stakeholders
- Explain the NHDOT Project Development Process and the Context Sensitive Solutions (CSS) process;
- Establish communication methods & schedule
- Communicate project status & project information

# Project Advisory Committee (PAC) Roles & Responsibilities

- Share local knowledge
  - Existing Conditions
  - Concerns
  - Future Planning
- Communicate with community groups and neighbors about the project
- Provide guidance and feedback to the project team
- Work together and build consensus to make decisions

# Design Process

- Data Collection & Evaluation\*
- Alternatives Analysis and Design\*
- Evaluate impact/effect on resources
- Identify and Select Preferred Alternative\*
- Conduct Public Hearing
- NEPA Evaluation and Documentation
- Final Design\*
- Environmental Permitting
- Right-of-Way Acquisition

\*Project Advisory Committee Input Requested





# Anticipated PAC Schedule

Year	Month/Time	Description
2019	December	Project Advisory Kick-Off & Introduction
2020	January/February	Existing Conditions, Environmental Resources & Design Constraints
	May/June	Develop & Evaluate Design Alternatives (Additional Meetings As Required)
2021	One Meeting prior to Public Hearing	Review Selected Alternative
2021-2024	Project Final Design Decisions & Details	PAC Meeting Scheduled as necessary to decide on Final Design details (Lighting, Landscaping, etc.)
2024	Construction Updates	PAC Meetings Schedule as necessary for Major Milestones or Construction Notices

# Discussion

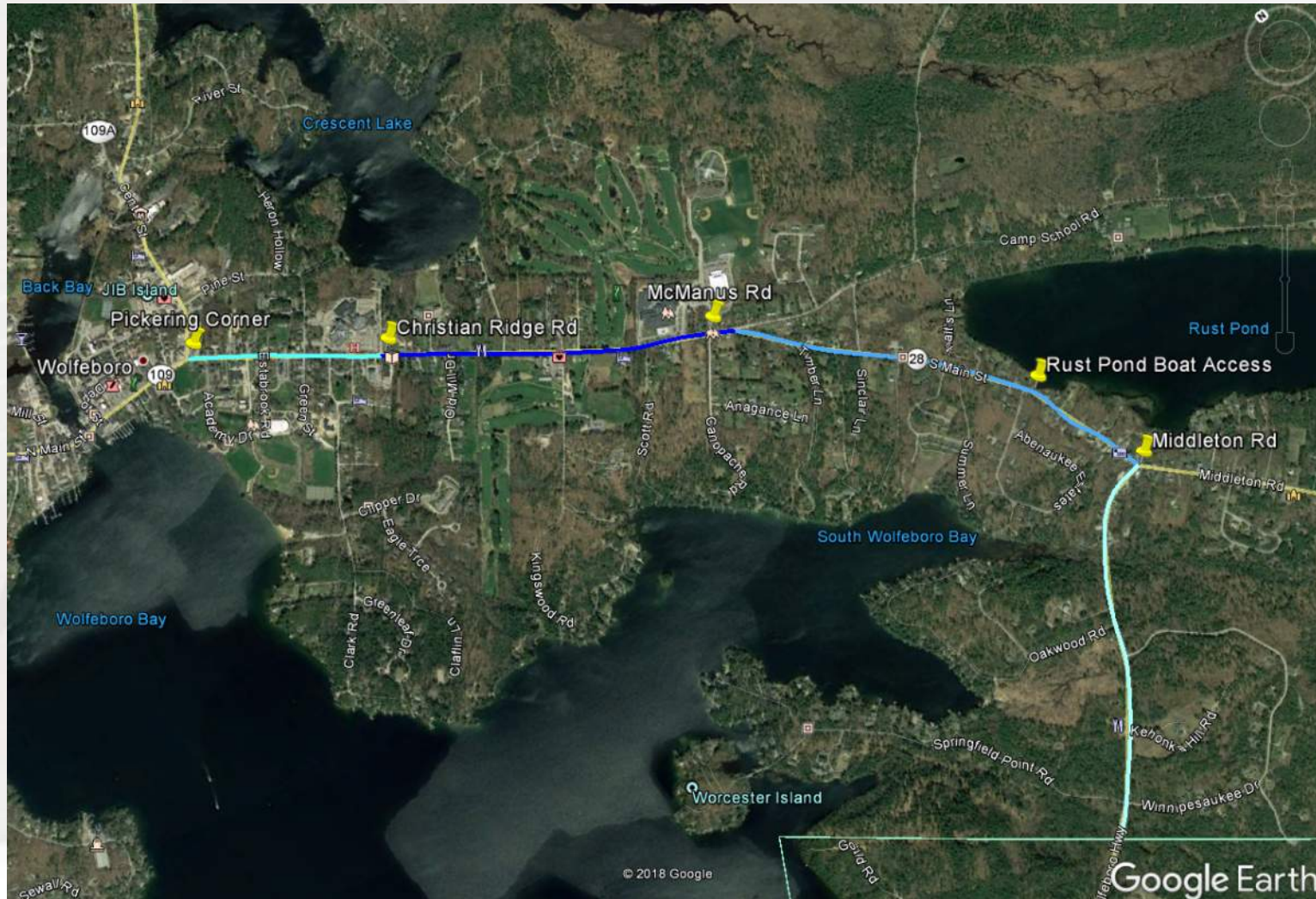




# Project History

- Town of Wolfeboro Master Plan 2007
- Corridor Study 2010 - 2017
  - Traffic Study & Alternatives
  - Public Forums 2010 & 2018
  - Steering Committee
- Planning Report Recommendations 2018

# Wolfeboro 29615 – NH Route 28



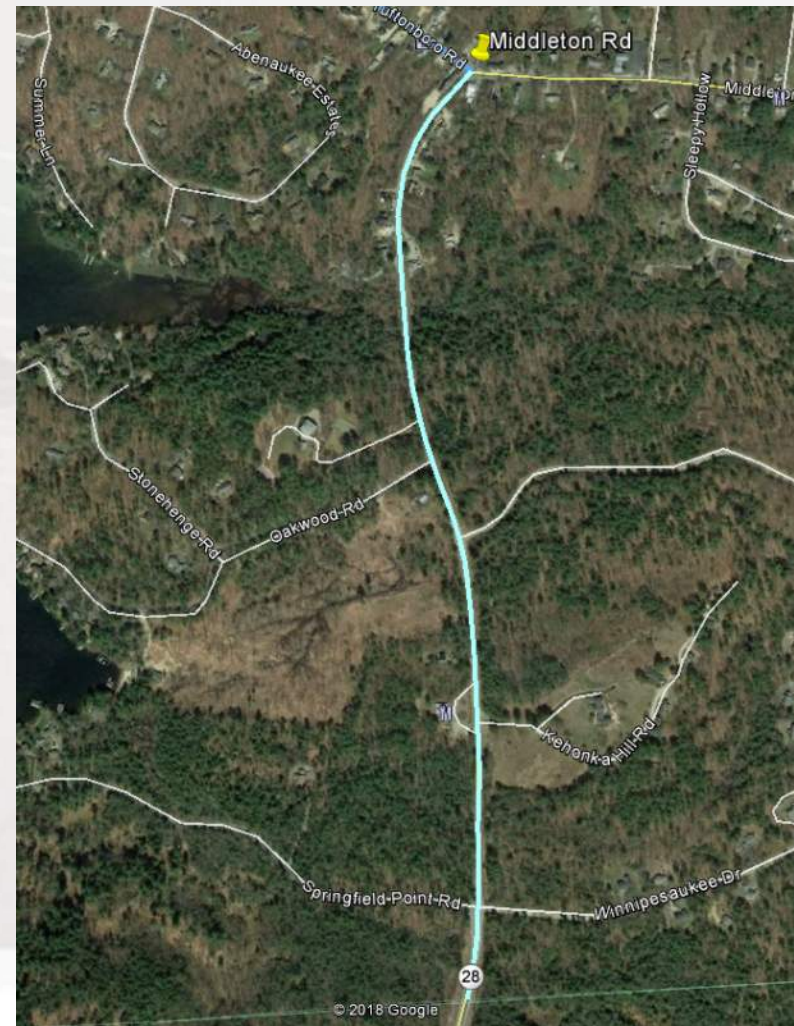


# Project Issues & Concerns – Segment 1

- Roadway Condition
- Shoulder Width
- Vertical Geometry



Location: NH 28 Looking North





# Project Issues & Concerns – Segment 2

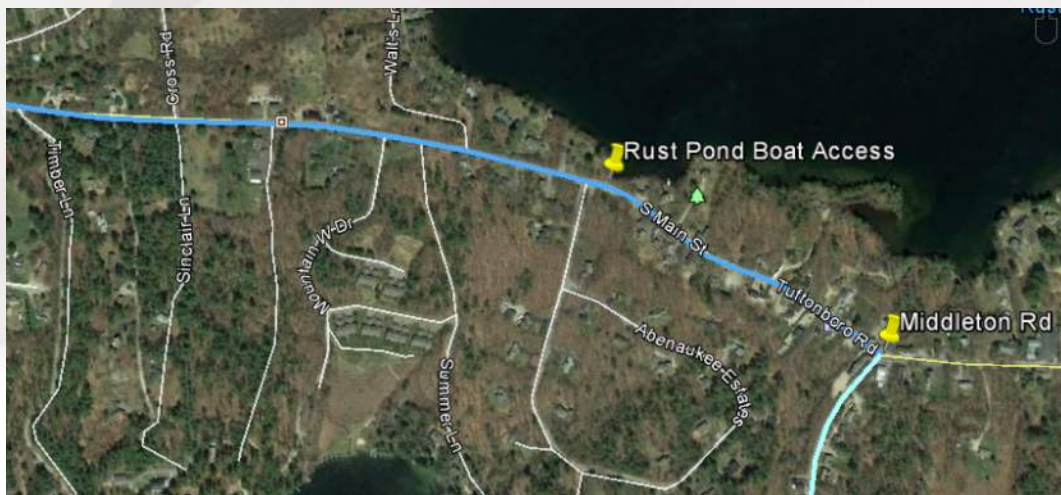
- Roadway Condition
- Drainage
- Middleton Rd. Int. -  
Sight Distance
- Shoulder Width
- Rust Pond Boat Access



Location: NH 28 Looking South (Rust Pond Access)



Location: NH 28 Looking South (Middleton Rd.)  
Google





# Project Issues & Concerns – Segment 3

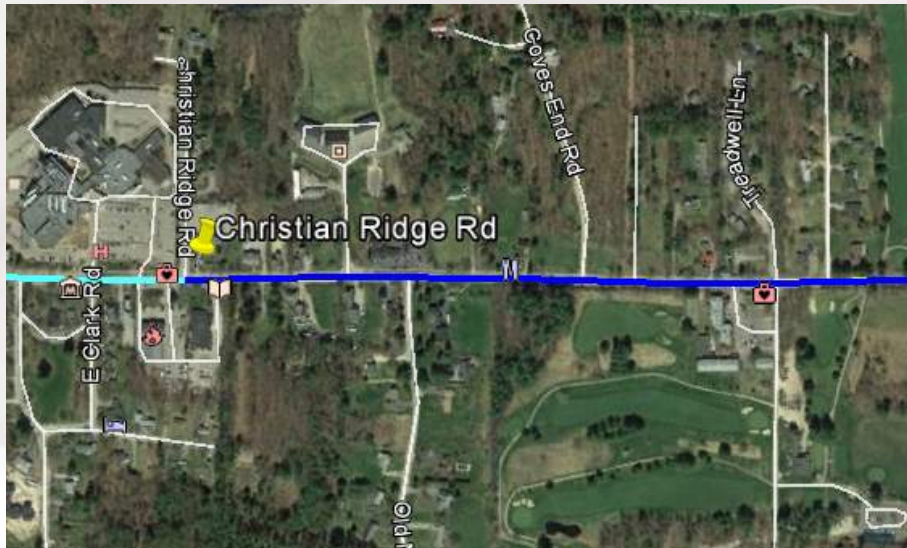
- Pleasant Valley Road Int. – Geometry & ISD
- McManus Rd. Int - Congestion



Location: N



Location: NH 28 Looking North (McManus Rd.)



# Project Issues & Concerns – Segment 3

- Roadway Condition & Drainage
- Shoulder Widths
- Crosswalks Locations & Lighting



Location: NH 28 Looking South (Christian Ridge Rd.)

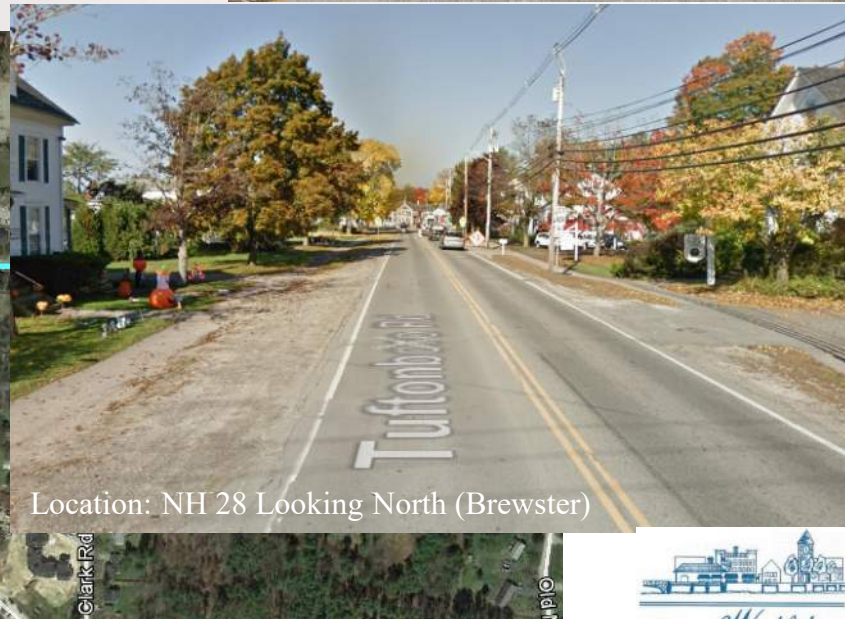
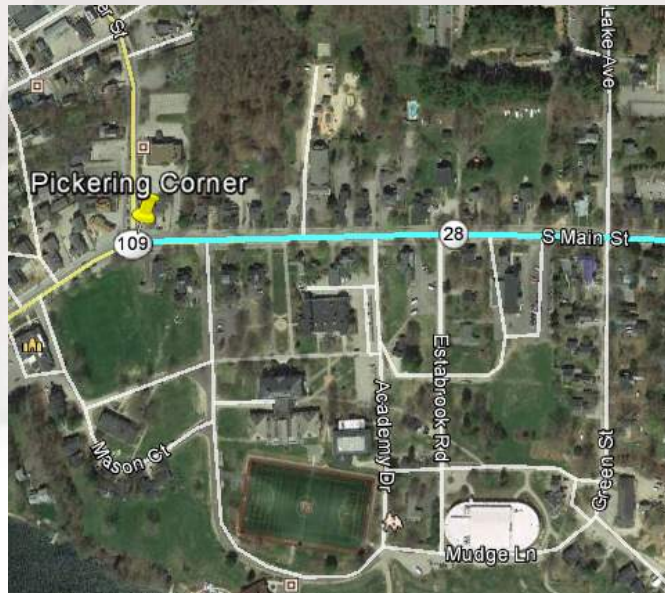


Location: NH 28 Looking South (Kingswood Golf Club)



# Project Issues & Concerns – Segment 4

- Maintain Historic Character
- Crosswalks
- Shoulder Widths
- Roadway & Drainage Conditions



# Project Issues & Concerns – Segment 4

- Pickering Corner –  
Congestion & Safety
- Sidewalks &  
Crosswalks
- Poorly defined drive  
entrances
- Lack of Village  
Character



Location: NH 28 Looking South (Pickering Corner)



Location: NH 28/109 Center Street Looking North



# Purpose & Need

- Pavement Condition
- Drainage
- Mobility
- Congestion and Safety



# 2018 Town Planning Report Recommendations

- Segment 4 – Pickering Corner
  - Preferred: Unsignalized Intersection
  - Option: Roundabout, if reduced impacts to Brewster & Businesses
- Segment 4 – Hospital, Safety Building & Library
  - Preferred Typical Section: 2 Lane Roadway to accommodate Sidewalk & Panel
  - Recommended: Relocate Crosswalks, Church Pull-off & Signing

# 2018 Town Planning Report Recommendations

- Segment 3 – Town Library to Pleasant Valley
  - Preferred: “T” Intersection for Pleasant Valley & Improve Safety of Golf Course Crossing
  - Recommended: Improve Crosswalks & Speed Reduction
- Segment 1+2 – Middleton Rd to Alton Town Line
  - Preferred: Pavement Markings & Minor Alignment Adjustments for Middleton Rd Intersection
  - Recommended: NH 28 Shoulder Widening



# Conceptual Estimate



## WOLFEBORO 29615 - NH ROUTE 28 SUMMARY OF CONSTRUCTION COSTS (2019 \$\$)

	SEGMENT 4 LIBRARY TO PICKERING CORNER	SEGMENT 3 TIMBER LANE/PLEASANT VALLEY RD TO LIBRARY	SEGMENT 2 MIDDLETON RD TO TIMBER LANE/PLEASANT VALLEY RD	SEGMENT 1 ALTON TOWN LINE TO MIDDLETON RD	
Typical Section	11'-5' w/ SW Both Sides	11'-5' w/ SW Both Sides	11'-5' w/ SW West Only	11'-5' (No Curb)	
NH ROUTE 28	NH Route 28 Length (ft)	2500	5700	4600	4700
	Hot Bituminous Pavement	\$ 230,600	\$ 525,700	\$ 424,200	\$ 433,500
	Base Materials	\$ 305,600	\$ 696,700	\$ 562,300	\$ 574,500
	Concrete Removal	\$ 133,400	\$ 304,000	\$ 245,400	\$ 250,700
	Sidewalk/Curb	\$ 189,900	\$ 432,800	\$ 174,700	\$ -
	Drainage	\$ 299,000	\$ 681,700	\$ 322,100	\$ 329,100
	Incidental	\$ 17,000	\$ 38,700	\$ 31,200	\$ 31,900
	Landscaping/Lighting	\$ 299,900	\$ 683,700	\$ 551,800	\$ 563,800
	NH ROUTE 28 SUBTOTAL	\$ 1,475,400	\$ 3,363,300	\$ 2,311,700	\$ 2,183,500
	PROJECT ROADWAY	Cost to tie in minor roads	\$ 126,500	\$ 128,975	\$ 100,375
Pleasant Valley (T Int. Concept)		\$ -	\$ 318,000	\$ -	\$ -
Cut/Fill/Fine Grading/Tree Removals/Etc.		\$ 174,600	\$ 551,420	\$ 273,286	\$ 279,227
Erosion Control		\$ 88,825	\$ 182,749	\$ 126,919	\$ 125,613
Maintenance of Traffic		\$ 124,355	\$ 255,848	\$ 177,686	\$ 175,858
Water Quality BMPs		\$ 225,000	\$ 300,000	\$ 225,000	\$ 225,000
Roadway Subtotal (Includes Minor Roads)		\$ 2,214,680	\$ 5,100,292	\$ 3,214,966	\$ 3,063,447
Traffic Signals (Safety Complex)		\$ -	\$ -	\$ -	\$ -
Culverts (Stream Crossings)		\$ -	\$ -	\$ 180,000	\$ 120,000
Utilities (Adjustments Only)		\$ 12,000	\$ 14,000	\$ 8,000	\$ -
Construction Admin. Items (SWPP, Trailer, OTJ, Adjustments, Mob., Etc.)		\$ 312,868	\$ 664,858	\$ 422,237	\$ 410,634
Subtotal		\$ 2,539,548	\$ 5,779,150	\$ 3,825,203	\$ 3,594,081
Construction Engineering (10%)		\$ 271,955	\$ 577,915	\$ 367,022	\$ 356,936
Wetland Mitigation/ARM		\$ 12,698	\$ 57,792	\$ 38,252	\$ 35,941
Contingency (15%)		\$ 407,933	\$ 866,872	\$ 550,533	\$ 535,403
CONSTRUCTION TOTAL*	\$ 3,232,134	\$ 7,281,729	\$ 4,781,010	\$ 4,522,360	
SAY	\$ 3,300,000	\$ 7,300,000	\$ 4,800,000	\$ 4,600,000	
Cost per LF	\$ 1,300	\$ 1,280	\$ 1,040	\$ 970	

PRELIMINARY - FOR SCOPING PURPOSES ONLY  
November 1, 2019

CORRIDOR TOTAL = \$ 20,000,000

\*NOTE: AVAILABLE TYP CONSTRUCTION FUNDING = \$7.3M (2019 \$\$)





# Project Scope

- Limited Project Length due to Ten Year Plan Funding Constraints (Only \$7.3M in 2019 Construction Dollars)
- Focus on Segment 3 & 4 Improvements between Pleasant Valley Road and Pickering Corner based on Town Planning Report
- Total Cost Estimated \$10.6M
- Project Improvements are shaped by PAC & Public Input

# Discussion



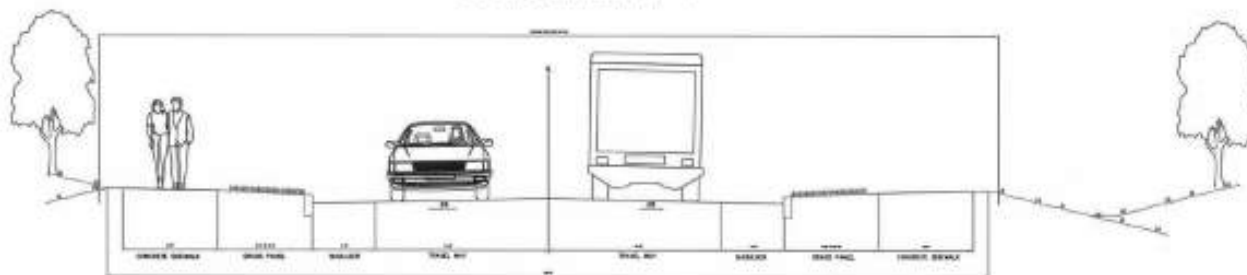


# Key Considerations

- Address Poor Pavement Condition
  - Remove Concrete Slab & Reconstruct Roadway
  - Pavement & Closed Drainage
- Evaluate Typical Section
  - Bicyclists & Pedestrians



## SEGMENT 4

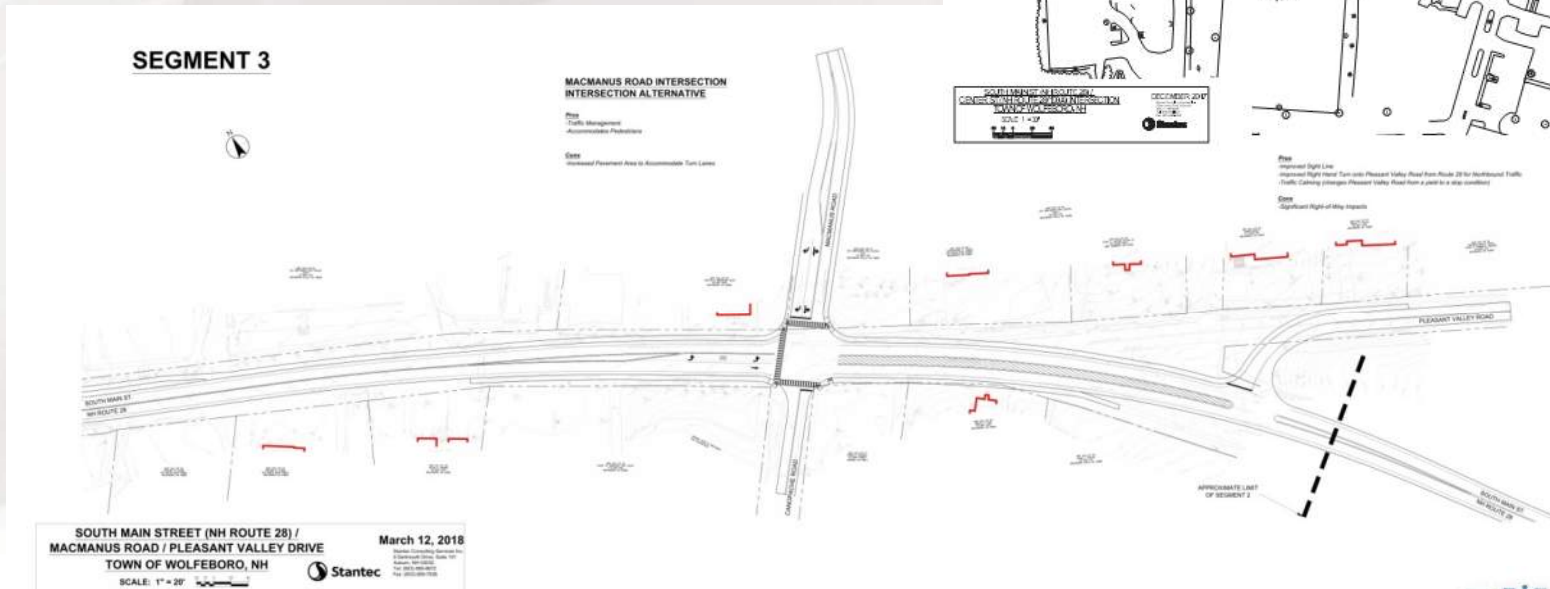
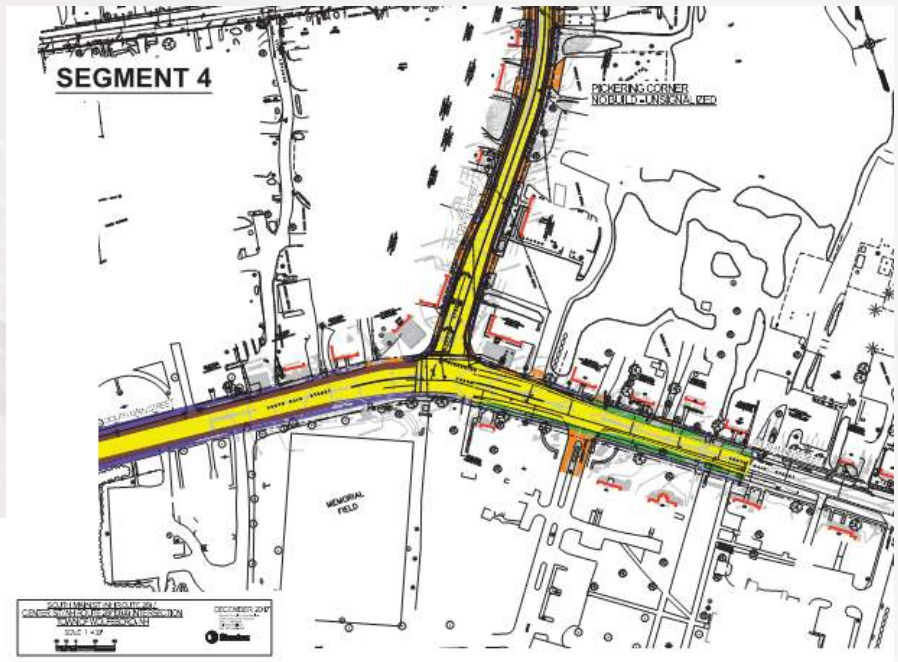


MAIN STREET - ROUTE 28  
SEGMENT #4 - PICKERING CORNER TO CHRISTIAN RIDGE ROAD  
TYPICAL SECTION WITH GRASS PANEL  
NOT TO SCALE



# Key Considerations

- Congestion
  - Pickering Corner
  - McManus
  - Pleasant Valley



# Key Considerations

- Speed & Traffic Calming
- Uncontrolled Pedestrian Crossings



Location: NH 28 Looking South



Location: N. State Street (US 3) Concord, NH



Location: NH 28 near Brewster



# Key Considerations – Potential Impacts

- Natural Resources
  - Wetlands
  - Water Quality
- Cultural Resources
  - Historic Features
    - Buildings
    - Neighborhoods



Location: S. Main Street Drainage (Skelley Property)



Location: Clark House Museum



# Key Considerations – Potential Impacts

- Right-of-Way
  - Temporary & Permanent Easements
  - Right-of-Way Acquisition
- Utilities
  - Aerial
  - Underground
  - Public and Private



Location: NH 28 Looking North (Brewster)

# Schedule & Next Steps

	<b>PUBLIC INVOLVEMENT</b>	<b>PROJECT DEVELOPMENT</b>
<b>2019</b>	<b>Project Advisory Committee Meetings (December)</b>	<b>Research Environmental Resources &amp; Design Constraints</b>
<b>2020</b>	<b>Project Advisory Committee Meetings Public Informational Meetings Neighborhood Stakeholder Meeting</b>	<b>Develop &amp; Evaluate Design Alternatives Evaluate Environmental Impacts (wetlands, water quality, etc.) Present and Receive Feedback on Design Alternatives</b>
<b>2021</b>	<b>Public Hearing</b>	<b>Publish Environmental Study</b>
<b>2021-2024</b>	<b>PAC &amp; Public Official Meetings (Project Updates, As Needed)</b>	<b>Final Design Right-of-Way Acquisitions / Easements Environmental Permitting</b>
<b>2024</b>		<b>Anticipated Start of Construction</b>

# Contact Information

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  - Donald.Lyford@dot.nh.gov





Questions?