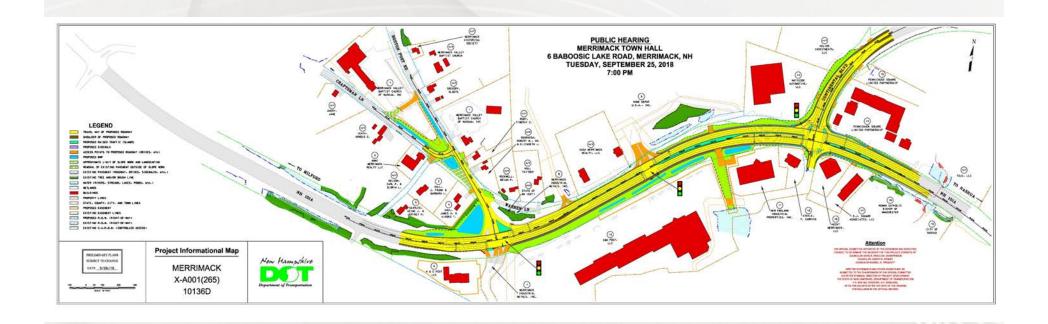
Merrimack 10136D Widening of NH 101A

Public Hearing

September 25, 2018







- NH 101A Project Area
 - 3 Westbound Lanes
 - 2 Eastbound lanes
 - Raised/Painted Medians to Develop Turn Lanes
 - Three Signalized Intersections
 - Boston Post Road/Connections Drive
 - Home Depot Drive
 - Continental Boulevard
 - Over 42,000 vehicles per day (weekdays)
 - Sidewalk on North (Westbound) Between Boston
 Post Road and Continental Boulevard Both
 sides east of Continental Boulevard
 - No Pedestrian Crossings of NH 101A



- Project Components
 - NH 101A and Continental Boulevard Intersection
 - Capacity Improvements
 - Sidewalk Connectivity
 - Pedestrian Access Improvements
 - Boston Post Road/Craftsman Lane
 - Traffic Calming
 - Safety



- NH 101A and Continental Boulevard Intersection
 - Adds third EB through-lane
 - Adds 2nd right-turn lane from Continental Boulevard to NH 101A WB
 - Adds right-turn lane from NH 101A WB to Continental Boulevard



Merrimack 10136D Widening NH 101A and Intersection Improvements INVESTMENTS PENNICHUCK SQUARE NATICOOK Right Turn to AUTOMOTIVE. 2nd Right LLC Turn to Continental Blvd. NH 101A PENNICHUCK SQUARE LIMITED PARTNERSHIP New Hampshire 3rd EB Thru Lane

- Proposed Benefits Continental Blvd.
 - Average Peak Hour Delay at Continental Blvd.
 - Future Year No Build
 - Average Delay 193.4 seconds
 - Future Year Build
 - Average Delay 61.3 seconds
 - Nearly 70% Reduction in Average Delay Across the Intersection
 - Incorporate Pedestrian Phase
 - Clearance Interval Modifications as Necessary

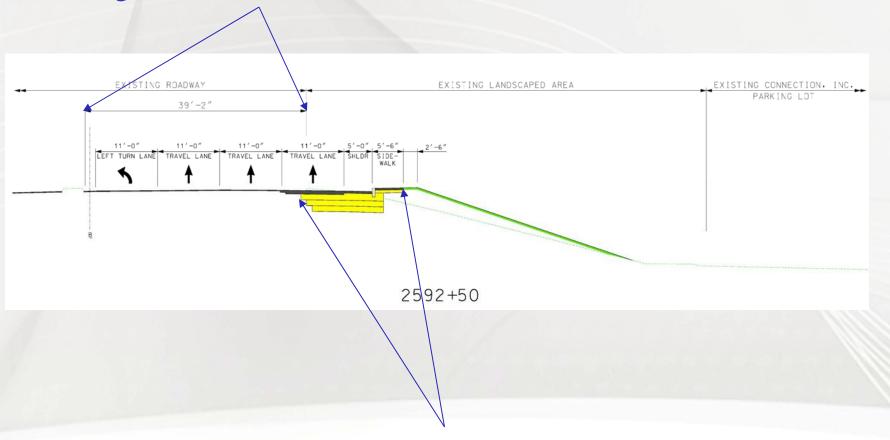


- Sidewalk connectivity between Continental Blvd. and Boston Post Road
 - Adds southerly sidewalk between Continental Boulevard and Boston Post Road
 - Crosswalks provided across NH 101A at Continental Boulevard and Boston Post Road
 - Bike accommodations improved at Continental Boulevard intersection



Widening NH 101A and Intersection Improvements

Existing Left Turn Lane, 2-Travel Lanes, and Shoulder



Widening and New Sidewalk

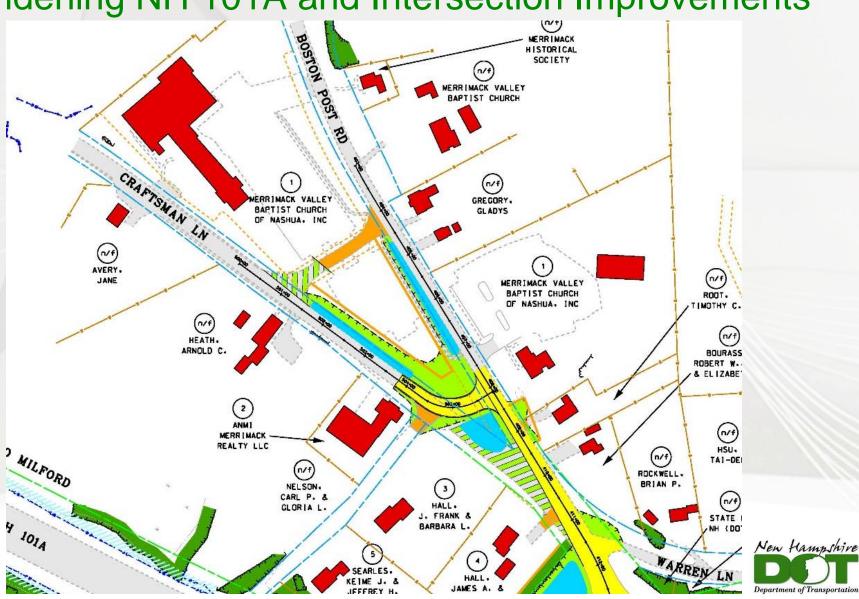






- Craftsman Lane traffic calming
 - Reconfigures Boston Post Road / Craftsman Lane intersection
 - Discourage westbound 101A traffic using Craftsman Lane as a bypass
 - Reduce speeds on Craftsman Lane
 - Discontinue public Right-of-Way through church parking lot
 - Improves safety and circulation of the parking lot

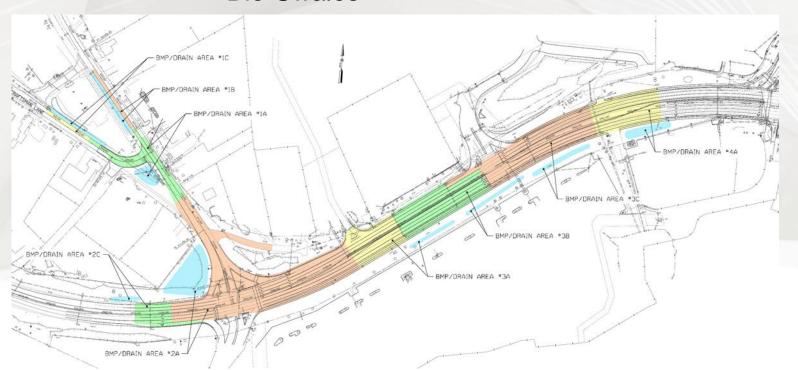




- Stormwater Management
 - New Municipal Separate Storm Sewer Systems (MS4) Regulations – Increased Treatment Requirements
 - Treatment for 100% of Impervious Area Within Project Limits
 - Existing Treatment System Continental Blvd to East
 - Outlets to the Pennichuck Brook



- Stormwater Management
 - 9 Proposed Best Management Practices (BMPs)
 - » Detention Pond
 - » Bioretention Ponds
 - » Bio-Swales



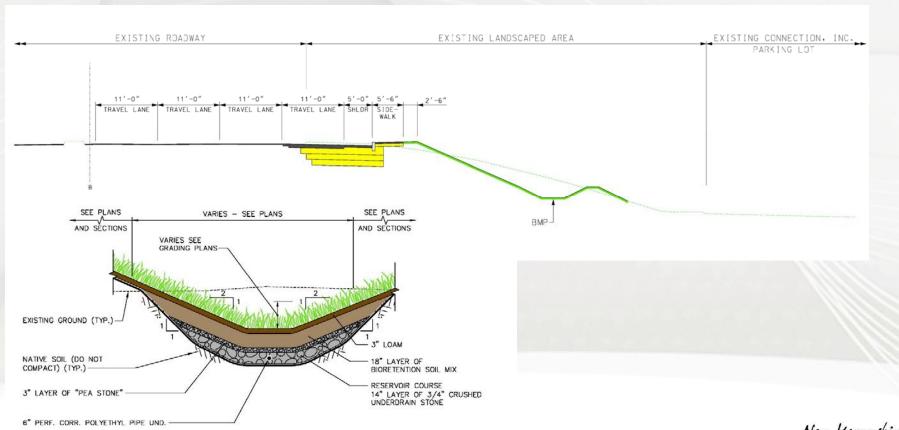


- Stormwater Management
 - Bioretention Systems
 - Higher Treatment Efficiencies of Key Pollutants
 - Utilizes Natural Filtering Media
 - Shallow Dry Systems
 - Low MaintenanceLandscaping/Vegetation
 - Overflow Structure Piped to Outlet
 - May be Lined with Underdrain –
 Piped to Outlet
 - Infiltration Groundwater Recharge



Widening NH 101A and Intersection Improvements

• Example Stormwater BMP Section





- Construction Duration
 - 2 Seasons
 - Minimize traffic impacts
 - Significant utility work
- Construction Impacts
 - Preliminary Geotechnical Investigation Ledge Removal
 - Requirements on Vibration and Noise
 - Maintain Drive and Business Access



- Traffic Control During Construction
 - Majority of work to outside portion of roadways
 - Maintain lane configuration off work hours
 - Daily lane closures (Off Peak)



- Utility Coordination:
 - Utility verifications on-going
 - Known aerial and underground private and public utilities within the project corridor
 - Relocations in accordance with NHDOT's Utility Accommodation Manual



- Right of Way Impacts:
 - Narrow Strip Acquisitions Continental Blvd Intersection (7 Parcels)
 - Supports New Lanes and Sidewalks
 - Permanent Easements
 - Future Maintenance and Access
 - Drainage
 - Traffic Signal Mast Arms
 - Retaining Walls
 - Temporary Easements (Not Shown)
 - Construction Access
 - Driveway Matches
 - Contractor Staging/Storage (Shown on Parcel 6)

