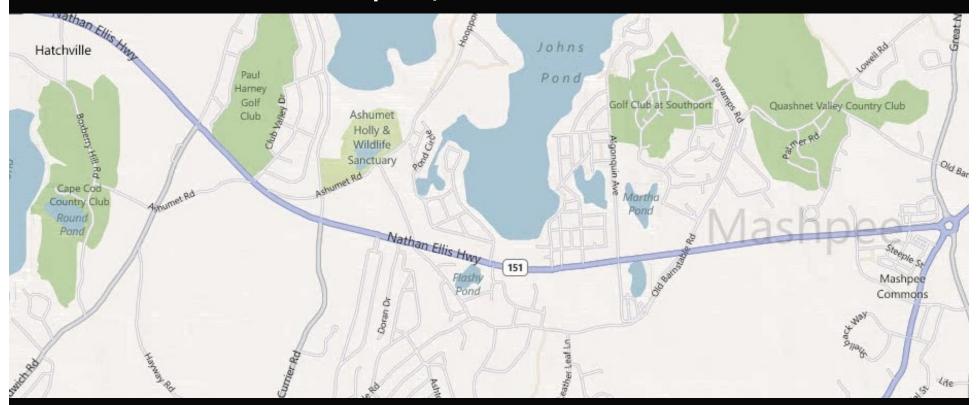
Nathan Ellis Highway (Route 151)

Mashpee, Massachusetts



DESIGN PUBLIC HEARING







PROJECT TEAM

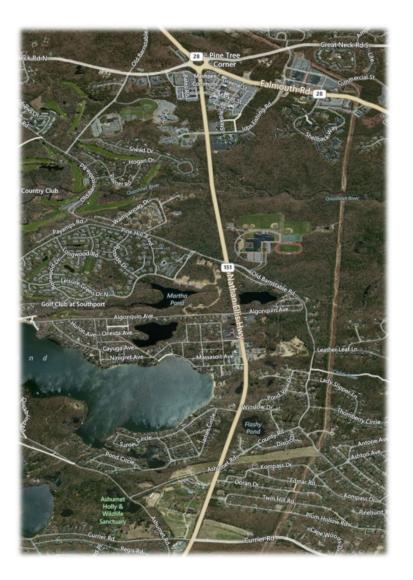
- Town of Mashpee
 - Catherine Laurent, DPW Director
- MassDOT
 - Tom Currier, Project Manager
- Stantec
 - Jill McLaughlin, Design Project Manager
 - Alan Cloutier, Lead Traffic Engineer





Meeting Agenda

- Introductions
- Existing Conditions
- Proposed Design
- Right-of-Way
- Environmental
- Construction
- Schedule
- Questions







Corridor Specifics

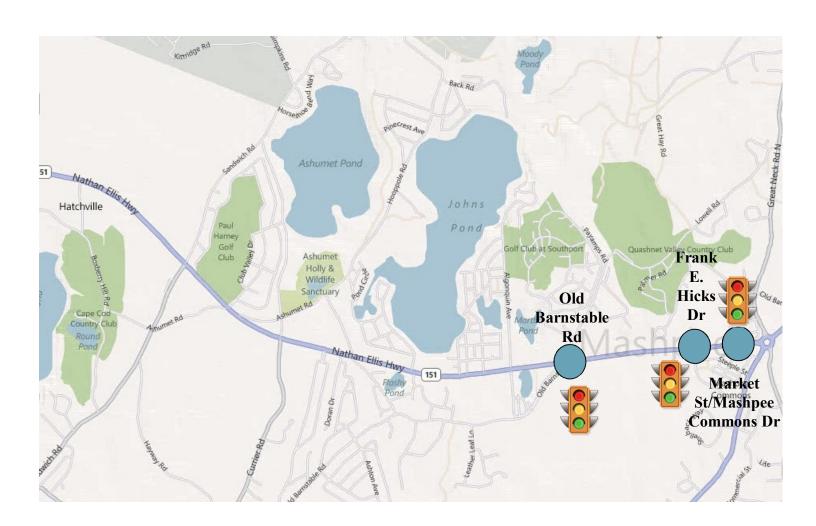
- Mix of commercial, retail, institutional and residential
- One lane each direction
- 45-50 mph posted speeds
- Minimal pedestrian and bicycle accommodations







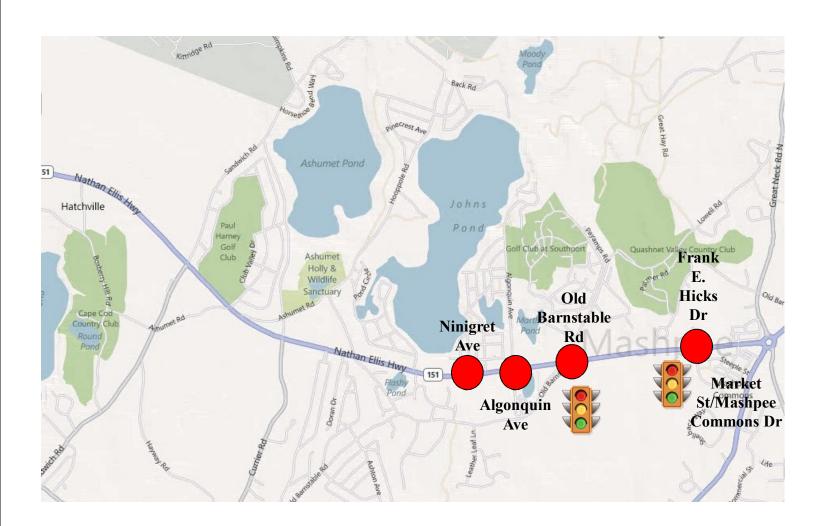
Signalized Intersections







High Crash Cluster Locations







Road Safety Audit (RSA)

- 4 Crash Cluster Locations
 - Top 5% in the Regional Planning Agency
- RSAs conducted:
 - July 2014
 - April 2018







Road Safety Audit Findings

- Findings
 - Inefficient signal timings and phasing
 - Many left turns in commercial section near Old Brickyard
 - Limited accommodations for pedestrians and bicycles
 - Sightline obstructions
 - High Speeds







Design Objectives

- Improve safety and mobility for <u>all</u> users
 - Healthy Transportation
- Upgrade Signal equipment
- Add or Extend Turn Lanes
- Pavement Markings & Signs
- Remove Sight Obstructions









Pedestrian and Bicycle Accommodations

SHARED USE PATH

--- SIDEWALK



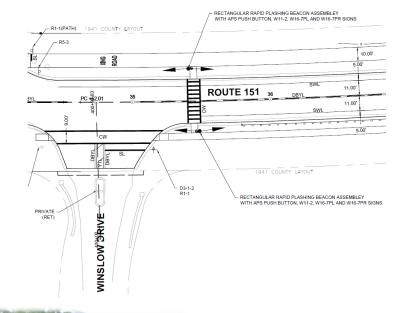






Crosswalks

- Crossings at signalized crossings
- RRFB and Crossing at James Circle/Winslow Drive



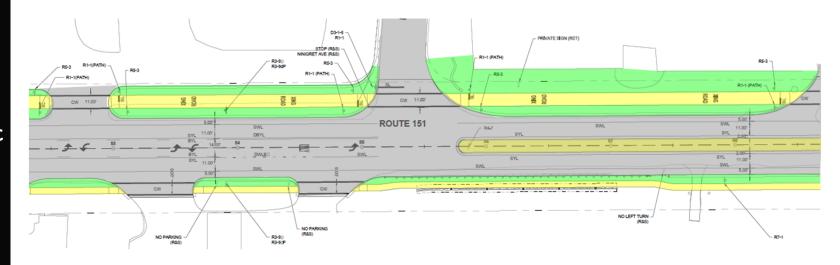






Commercial Area

- One Lane in Each Direction
- Center Turn Lane
- Median
- Left Turn Lane

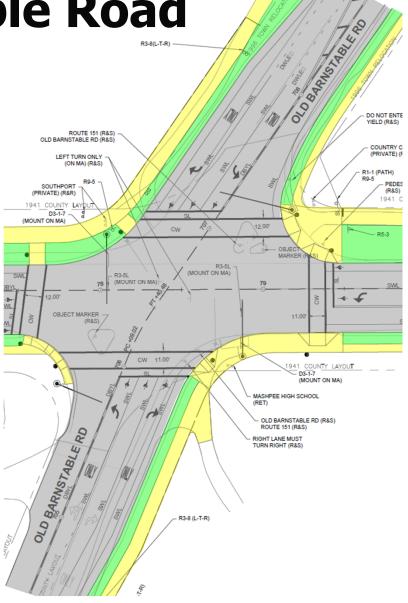






Old Barnstable Road

Adding
 exclusive
 left turn
 lanes on
 Old
 Barnstable
 Road







Job's Fishing Road Intersection

Adding exclusive right turn FRANK E. HICKS DR R1-1(PATH) R9-5 **ROUTE 151** SOUTH CAPE HEACH HEN SEABURY 151 POPPOWERSET TO MORTH SPEED -\
LIMIT \
(RET) JOB'S FISHING RD 151 WEST N. Falmouth Bourne

Stantec



Route 151/ Old Barnstable Road



2031 AM
No Build
D – 35 sec





WITH PROPER CLEARANCE INTERVALS

2031 AM Build D – 32 sec



Route 151/ Old Barnstable Road



2031 PM No Build D – 53 sec





WITH PROPER CLEARANCE INTERVALS

2031 AM Build D – 46 sec



Route 151/ Jobs Fishing/ Frank Hicks Drive



2031 AM No Build C – 33 sec





WITH PROPER CLEARANCE INTERVALS

2031 AM Build B – 18 sec



Route 151/ Jobs Fishing/ Frank Hicks Drive



2031 PM No Build F-109 sec

WITH PROPER CLEARANCE **INTERVALS**

> 2031 PM Build C - 33 sec





Route 151/ Mashpee Commons



2031 AM No Build C – 26 sec

WITH PROPER CLEARANCE INTERVALS

2031 AM Build C – 27 sec







Route 151/ Mashpee Commons



SOTH PERCENTILE CALLER

SOTH P

2031 AM No Build D – 44 sec

WITH PROPER CLEARANCE INTERVALS

2031 AM Build D – 36 sec

Stantec



Summary

- Shared use path and sidewalk improves access and safety for pedestrians.
- Shared use path and consistent shoulder improves access and safety for bicylists
- Targeted improvements improve safety for motorists
- Intersection turn lanes improve efficiency for drivers
- Turn lanes/center turn lane improves access for businesses.





Drainage Design

Closed DrainageSystem

Leaching Basins

Maintain Existing Outlet Points







Right-of-Way Impacts

- Temporary Easements
 - Grading/Slope Work
 - DrivewayReconstruction
- Permanent Easements
 - Sidewalk Construction
 - Work on Private Roads



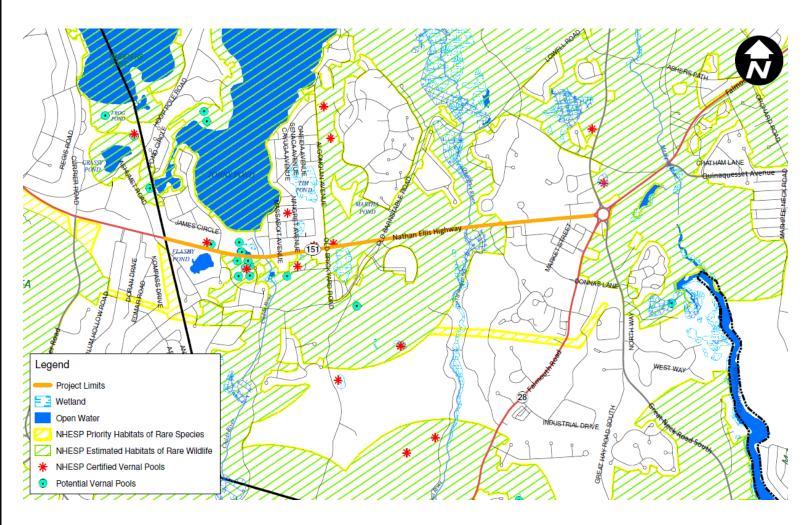






Environmental Permitting

Work in Wetlands



Stantec



Construction Staging

Off SeasonConstruction



 Alternating One Lane for Narrow Sections of Route 151

 48 Hours Notice for any work impacting access to driveways







Schedule

- Next Design Submission 75%
- TIP Year 2021/2022









Questions?



Please

- state your name
- spell your last name
- state your address

prior to asking your question

