

# Welcome!

*Intersection Improvements at  
Main Street (Route 28) and North Main Street and Old Main Street  
Yarmouth | Project File No. 608568*

## Public Information Meeting

**Yarmouth Town Hall Meeting Room,  
1146 Route 28, Yarmouth, MA 02664  
October 9, 2018 | 7:00PM – 9:00 PM**



*Intersection Improvements at  
Main Street (Route 28) at North Main Street  
and Old Main Street  
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# Introduction

- *Thomas Currier, PE – Supervising Project Manager- MassDOT*
- *Stephen Farr, PE - Nitsch Engineering*
- *Birendra Gurung, PE, PTOE – Nitsch Engineering*



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# Project Team



## ***MassDOT District 5***

Project Proponent

## ***Consultant Engineering Firm***

Responsible for Design

## ***MassDOT's Highway Division***

Responsible for administering the Design Process and providing Resident Engineer Services

## ***Federal Highway Administration***

Federally Funded Project

# **Project Background**

- 1. Nitsch received Design Contract NTP on Wednesday July 26, 2017.*
- 2. Nitsch Engineering conducted a field observation visit on Wednesday, October 5, 2017.*
- 3. Nitsch & MassDOT worked on Conceptual Design and a Conceptual Design Report (CDR) was completed on November 21, 2017.*
- 4. The Project is funded Through the 2021 Highway Safety Improvement Program (HSIP) funds.*
- 5. Estimated Total Construction Cost \$2.7 Million.*
- 6. Projected Advertisement for Construction in November 2021*
- 7. Estimated Construction Duration 24 months.*

# Project Background Cont..

- *The 2014 Top Crash Locations Report identifies:*
  - 🕒 *The study intersection of Main Street (Route 28) and North Main Street and Old Main Street as the 50<sup>th</sup> highest crash location in the state.*
- *A Road Safety Audit (RSA) for the intersection Main Street (Route 28) and North Main Street and Old Main Street was conducted On December 2, 2016. RSA identify problems and help develop solutions for locations with traffic safety issues.*



# Project Area



**Why do we need  
this project?**



# Existing Issues

- *High Crash Location: Route 28 at North Main Street and Old Main Street Ranked #50 in MA.*
- *Lane Configurations: No protected left-turn phase on Route 28 eastbound or westbound and not enough left-turn storage.*
- *Intersection Geometry: Station Avenue intersects with North Main Street at Acute angle under "YIELD" control, creates poor sight distance.*
- *There is no ADA / MAAB compliance.*
- *There is no Bicycle / pedestrian accommodation.*
- *Traffic signal equipment visibility / Outdated signal equipment.*

## Existing Issues Cont..

- *Driveway access management: Municipal parking lot curb cut on Route 28 is too long, creating many vehicle conflict points, and lead to vehicles jockeying during high volume times.*
- *Parking access management: Parked vehicle backing onto North Main Street from an angled parking space is an unsafe condition.*
- *Inadequate and non-compliant Signage.*
- *Pavement / Drainage Issues.*

# Existing Condition



# Project Goals

- *Improve Intersection Safety*
- *Improve / Provide Pedestrian Accommodation*
- *Improve / Provide Bicycle Accommodation*
- *Maintain acceptable Level of Service while improve safety by introducing protected left-turn phases.*
- *Provide new Pavement Marking*
- *Provide new signage*
- *Reconstruct Roadway to Improve Drainage System*
- *Minimize ROW Impacts*

# Proposed Design



# Proposed Design – Traffic Analysis

Main Street (Route 28) at North Main Street and Old Main Street

	2027 No-Build			2027 Build		
Peak Hour	V/C	Delay	LOS	V/C	Delay	LOS
AM	0.82	33.5	C	0.85	40.2	D
PM	1.37	49.2	D	0.99	53.6	D

AM – Weekday Peak Hour 8:00 AM – 9:00 AM

PM – Weekday Peak Hour 4:00 PM – 5:00 PM

# Proposed Design – Traffic Analysis

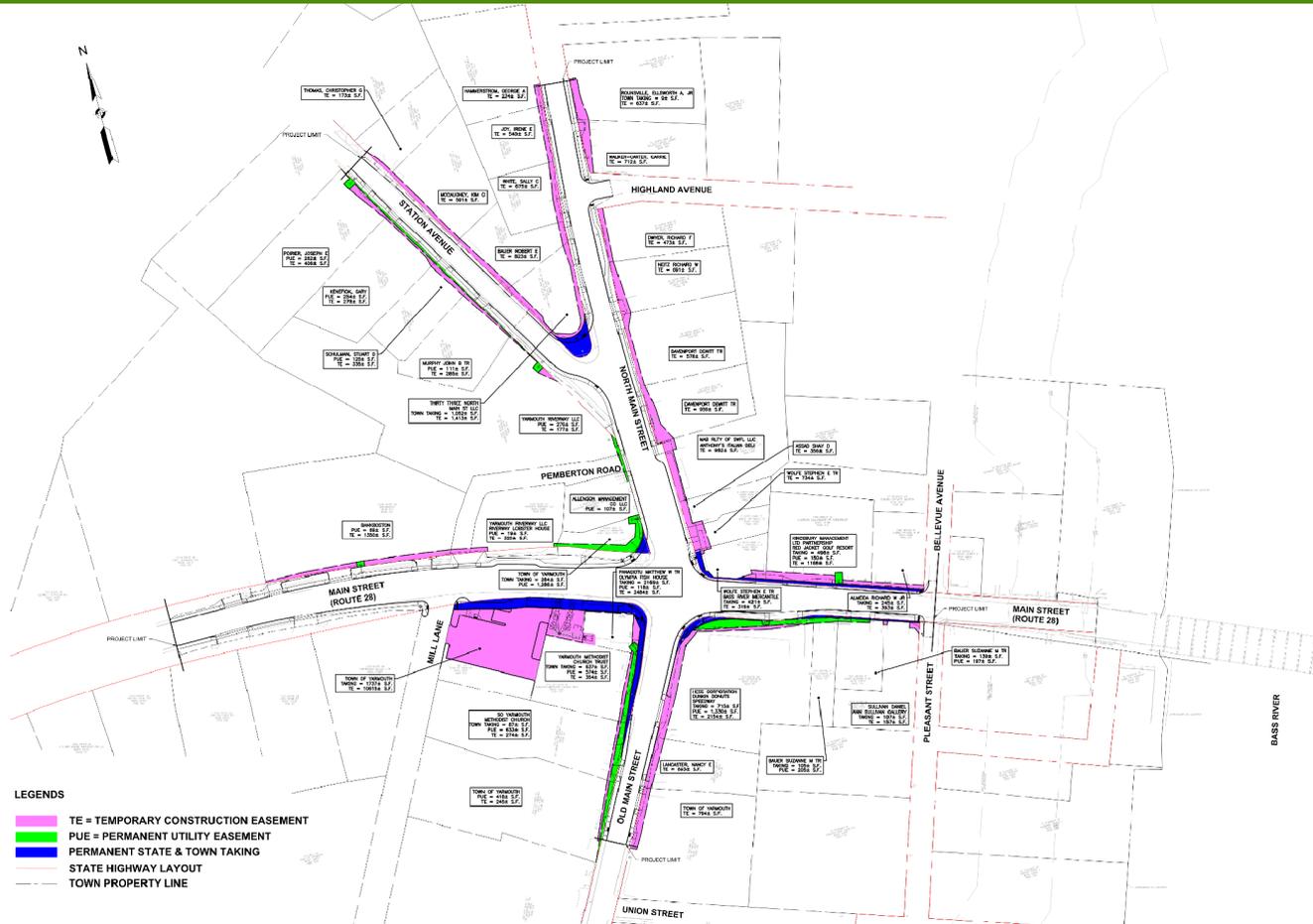
## North Main Street at Station Avenue

	2027 No-Build			2027 Build		
Peak Hour	V/C	Delay	LOS	V/C	Delay	LOS
AM	0.01	0.3	A	0.01	0.2	A
PM	0	0.1	A	0	0.1	A

AM – Weekday Peak Hour 8:00 AM – 9:00 AM

PM – Weekday Peak Hour 4:00 PM – 5:00 PM

# Right of Way Impact



- LEGENDS**
- TE = TEMPORARY CONSTRUCTION EASEMENT
  - PUE = PERMANENT UTILITY EASEMENT
  - PERMANENT STATE & TOWN TAKING
  - STATE HIGHWAY LAYOUT
  - TOWN PROPERTY LINE

PLANS PREPARED BY:  

[www.nitscheng.com](http://www.nitscheng.com)  
 7 Center Plaza, Suite 430  
 Boston, MA 02108  
 T: (617) 238-6963  
 F: (617) 238-6422

**RIGHT OF WAY IMPACT**  
 SCALE: 1" = 50'

## **Project Improvements**

- *Construct Roadway / Intersection (Milling & Overlay / Full Depth Box Widening)*
- *Realignment of Station Avenue.*
- *New accessible Pedestrian ramps and crosswalks.*
- *Construct New / Reconstruct existing sidewalks.*
- *Construct two-way Bicycle and Pedestrian Shared-use Path.*
- *Install new traffic signal equipment with optimized phasing and timing.*
- *New pavement markings and signage.*
- *Install New / Reset Existing Granite Curbs.*
- *Improve Drainage Conditions.*
- *Utility Poles Relocation.*

# Preliminary Project Schedule

25% Design Submitted on  
July 20, 2018

Design Public Hearing  
TBD (Winter 2019)

100% Design Submittal  
January, 2020

Public Information Meeting  
October 9, 2018

75% Design Submittal  
May, 2019

Advertisement  
November, 2021

PS&E Submittal  
October, 2020

Construction Starts  
Spring, 2022

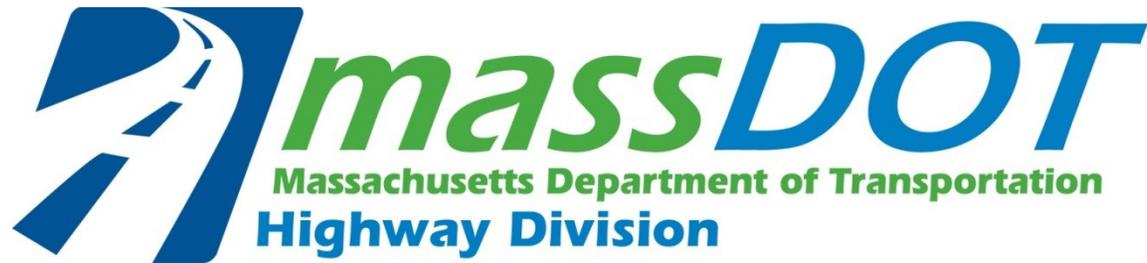
# Next Steps

- *MassDOT is Reviewing 25% Design Submission*
- *Design Public Hearing TBD*
- *75% Design Submission Scheduled to be made on May, 2019*

# Contact Information



- *Contact Person: Thomas Currier, PE – Supervising Project Manager*
- *Email: [Thomas.currier@dot.state.ma.us](mailto:Thomas.currier@dot.state.ma.us)*
- *Tel: (857)-368-9348*



# Thank You

## Q&A

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