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Closed captioning automatically generated by Zoom





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1-888-799-9666





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- If you are not comfortable being recorded, please turn off your camera, and keep your lacksquaremicrophone muted, or you may choose to excuse yourself from the meeting.

Other Important Notes

- Your microphone and webcam are automatically disabled upon entering this meeting. lacksquare
- The meeting will be open to questions and answers at the end of the formal presentation. lacksquare
- Please take time to respond to our survey! Your feedback is important. lacksquare





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- We welcome the diversity from across our entire service area. If you have any questions or concerns, please visit https://www.mass.gov/nondiscrimination-in- transportation-program to reach the Office of Diversity and Civil Rights.

Thank you for joining our meeting. We appreciate your participation!



Panelists

MassDOT Project Team

- Adetoyin A. Olaoye, Project Manager
- Andrew Wilkins, EIT, Highway Design
- Olivia Murphy, Highway Design
- Fangyun Xi, EIT, Traffic Design
- MassDOT Meeting Facilitators
 - Leah Grodstein, Meeting Producer
 - Roy Kirwa, Meeting Producer
- **Cape Cod Commission** \bullet
 - Steven Tupper, PE, Deputy Director
- **Howard Stein Hudson** \bullet
 - Bob Stathopoulos, PE, PTOE, Traffic Engineering Technical Leader



Language Translation Speakers

- American Sign Language
 - Michael Herschberg
 - Meaghan Cooney



Public Outreach

- 1. Newspaper
- The Bourne Enterprise
- Cape Cod Times
- 2. MassDOT Social Media
- Facebook
- Twitter



Serving Cape Cod Communities Since 1895



- 3. Thanks to the following for sending notice of this meeting:
- Cape Cod Commission
- Registry of Motor Vehicles
- Council on Aging



CAPE COD TIMES





Agenda

- **01** Introduction
- 02 Background
- 03 Proposed Design
- 04 Impacts
- **05** Q&A





Poll #1

How often do you use the intersection? [Select all that apply]

- ✓ Daily
- ✓ Weekly
- ✓ Weekends
- ✓ Occasionally
- ✓ Seasonally
- \checkmark I don't travel through this intersection





Introduction

- The Bourne Rotary
 Improvements project seeks to
 improve the traffic operations
 and safety through the rotary
 through short-term
 improvements with minimal
 impacts.
- No Right of Way Impacts

 (No land takings are proposed
 as part of this project
 temporary or permanent).





Bourne – Cape Cod Canal Bridges Program

- This meeting is NOT to discuss the Cape Cod Canal Bridges Program Project.
- Cape Cod Bridges Program:
- Bourne Rotary Improvements:
- Public Meeting Information: <u>https://www.mass.gov/cape-bridges</u>



• Public Comment Portal:

https://pima.massdotpi.com/public/comment/

project-comment-dynamic?project_id=13868







This meeting IS to discuss the Bourne Rotary Improvements Project



How did we get here?

August 2019

Project Need Form September 2020

Project Review Committee and Project Initiation Form September 2020

Approved

February 2022

Update Meeting with State and Local Representatives

June 2022

25% Design Submission



Funding

- The total estimated project cost is approximately \$1,800,000.
- The Federal Highway Administration will fund 80% of the total construction cost.
- MassDOT will fund 20% of the total construction cost.





Source: Microsoft





Why was this project initiated?

Poll #2

What are your biggest concerns about this rotary? [Select all that apply]

- ✓ Lane Weaving
- ✓ Vehicle Collisions
- ✓ Traffic Congestion
- ✓ Speeding
- ✓ Facilities for People Walking or Biking
- ✓ Other
- ✓ Not sure





Project Background

- The Bourne rotary serves as one of the two entrances vehicular to Cape Cod and the gateway to the Bourne Bridge. This rotary serves as an evacuation route.
- The rotary has been identified as a high crash location with concerns raised over safety and traffic congestion.
 - According to the Cape Cod Crash Dashboard: Bourne Rotary ranked #1 for 2018-2020 for circular intersections.
 - 236 crashes
 - The posted speed limit entering the rotary is 25 miles per hour.



Source: Google Street view





Traffic Operations Concerns



MAJOR CONFLICT AREA

Major conflict between movements:

- Bourne Bridge to Sandwich Road and
- Route 28 NB to Sandwich Road or Route 28 NB to Bourne Bridge



Safety Concerns – Crash Types & Locations (2009-2012)



KEY LEGEND

ANGLE
 SIDE SWIPE
 REAR END
 TURNING MOVEMENT
 SINGLE VEHICLE
 HEAD ON



Safety Concerns – Crash Severity & Locations (2018-2020)



#1 top crash location in the Cape Cod region (Source: Cape Cod Commission)

CRASHES IN CURRENT EXTENT



KEY LEGEND

PROPERTY DAMAGE (91.95%)
NON-FATAL INJURY (7.2%)
UNKNOWN (0.42%)
NOT REPORTED (0.42%)







What do we want to accomplish?

Project Goals

- Improve Safety & Traffic Congestion lacksquare
 - New pavement markings
 - Signage
 - Adjusting roadway geometry
- **Short-term** improvements prior to any major changes advanced by the Bridge project. ullet



Source: Microsoft



Source: Microsoft





What are the benefits of rotary retrofits?

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Rotary Retrofit Example – Otis Rotary Before After







Rotary Retrofit Example – Concord

Before



After





Rotary Retrofit Example – Middleborough

Before



After





Improved Safety Conditions

Location		Before Crash Data Range	Before Number of Crashes	After Crash Data Range	After Number of Crashes	% Reduction of Crashes
Greenfield	Rt 2 at I-91	2005-2007	55	2009-2011	42	24%
West Springfield	Rt 5 and Rt 20	2012-2014	105	2016-2018	83	21%
West Springfield	Rt 5 and Rt 147	2012-2014	44	2016-2018	27	39%
Bourne	Otis Rotary (Rt 28 at Connery Ave)	2012-2014	93	2017-2019	73	22%

Disclaimer: This was a high-level data gathering effort that used a buffer around each rotary to select crashes around the intersection. Results are localized crash data at similar rotaries. We don't want to draw any general conclusions from this data since it was not curated or analyzed in detail.







Existing Bourne Rotary







Proposed Bourne Rotary Retrofit



MASSACHUSETTS DEPARTMENT OF TRANSPORTATION



Four Lanes; lanes separated by rumble strip

Three entering

Proposed Layout (Cont.)

- Shared use path updated to meet ADA standards.
- Distance from roadway increased for pedestrian safety.



SECTION A





Proposed Layout (Cont.)

- Two lanes for Eastbound traffic to enter Sandwich road.
- Rumble strip separates traffic entering Sandwich road from traffic continuing through the rotary.



SECTION B





SECTION C





How will bicyclists and pedestrians be impacted?

Pedestrian/Bicycle Impacts

- Shared use path in the northwest quadrant will be moved to accommodate the additional lane.
- Ramps will be built as per ADA standards.
- No exclusive facilities for people biking within the project limits.
- Access for people walking and biking will be maintained throughout construction.









What are the environmental, cultural resource, and comunity impacts?

Environmental Impact Evaluation

- Wetlands and Biological Resources
 - No impacts to regulated wetlands.
- Recreational and Cultural Resources Areas
 - No impacts to Inventoried Property.
 - No impacts to protected open space.

• Permitting

- Early Environmental Coordination Checklist to be submitted in February 2023.
- National Environmental Protection Agency (NEPA) Categorical Exclusion Checklist to be submitted at 100% design.









Construction Approach

- Completed within one construction season.
- Vehicle and Pedestrian access maintained.
- Coordinate roadwork with the Town of Bourne. \bullet
- Maintain access to all adjacent businesses.
- Lane closures may be needed during off-peak periods.
- No summer work during the Cape Cod Summer Moratorium.





Our next steps



Respond to comments from Public Meeting December 2022



Prepare and submit 75%/100% Design January 2023



Final Design Summer 2023



Receive necessary permits

Summer 2023



Construction Fall 2023 through Fall 2024





How will we keep you informed?

How to reach us?

- Submit written comments to: Carrie Lavallee, P.E. Chief Engineer **MassDOT** 10 Park Plaza Boston, MA 02116 Attention: PROJECT MANAGEMENT, PROJECT FILE NO. 610542
- Submit email comments to: MassDOTProjectManagement@dot.state.ma.us
- For project information visit the MassDOT Design Public Hearing web site at:

https://www.mass.gov/massdot-highway-design-public-hearings or use the QR Code:







Questions and discussion

Questions and Answers





Submit your questions and comments using the Q&A button



Please state your name before your question



Please share only 1 question or comment at a time, limited to 2 minutes, to allow others to participate



To ask a question via phone, dial *9 and the moderator will call out the last 4-digits of your phone number and unmute your audio when it is your turn



Please take a few minutes to complete the survey after the meeting to let us know how your experience was with this virtual meeting

All questions and comments are subject to disclosure for public records. Please use these functions for project related business only.





