



Acceler-8

Southborough-Westborough

Flanders, Parkerville, Cordaville & Woodland Roads

I-90 Bridge Replacements

Public Information Meeting

April 28, 2021

Public Meeting Notes and Procedures

Notification of Recording

- This virtual public meeting will be recorded. The Massachusetts Department of Transportation may choose to retain and distribute the video, still images, audio, and/or Q&A transcript.
- By continuing attendance in this virtual public meeting, you are consenting to participate in a recorded event.
- All recordings and the Q&A transcript will be considered a public record.
- If you are not comfortable being recorded, please refrain from typing questions and comments in the Q&A box, or you may choose to excuse yourself from the meeting.

Other Important Notes

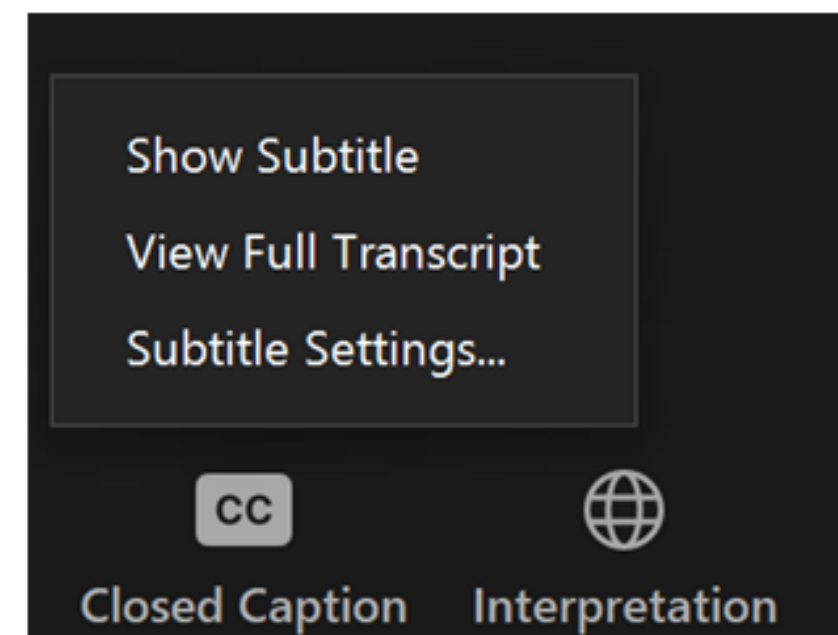
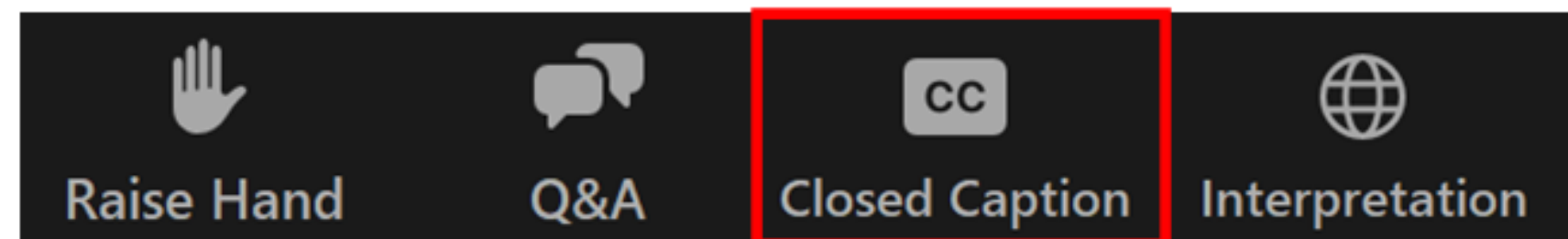
- Please note that you will be automatically muted and your video turned off upon entering the meeting. The meeting will be open to questions and answers at the end of the presentation.
- Please state your name prior to asking a question or commenting.

IT Questions throughout this presentation

- Please email Amanda Poggenburg – apoggenburg@reginavilla.com

How To Use Zoom Captioning

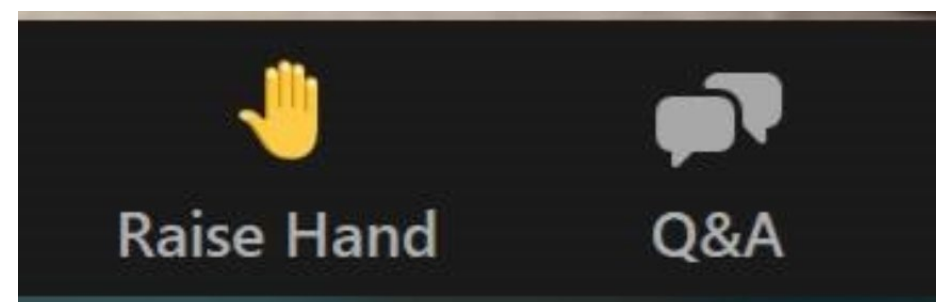
- You can view closed captions by clicking the **Closed Captions** feature and selecting from the options shown.
- **Show Subtitle** will display a caption at the bottom of the screen.
- **View Full Transcript** will display the meeting's audio transcription in a window to the right.



Questions and Answers

Instructions

- To comment, please click the “**Raise Hand**” button (see below). Kindly wait for the moderator to recognize and call on you before speaking, you will be unmuted at this time.

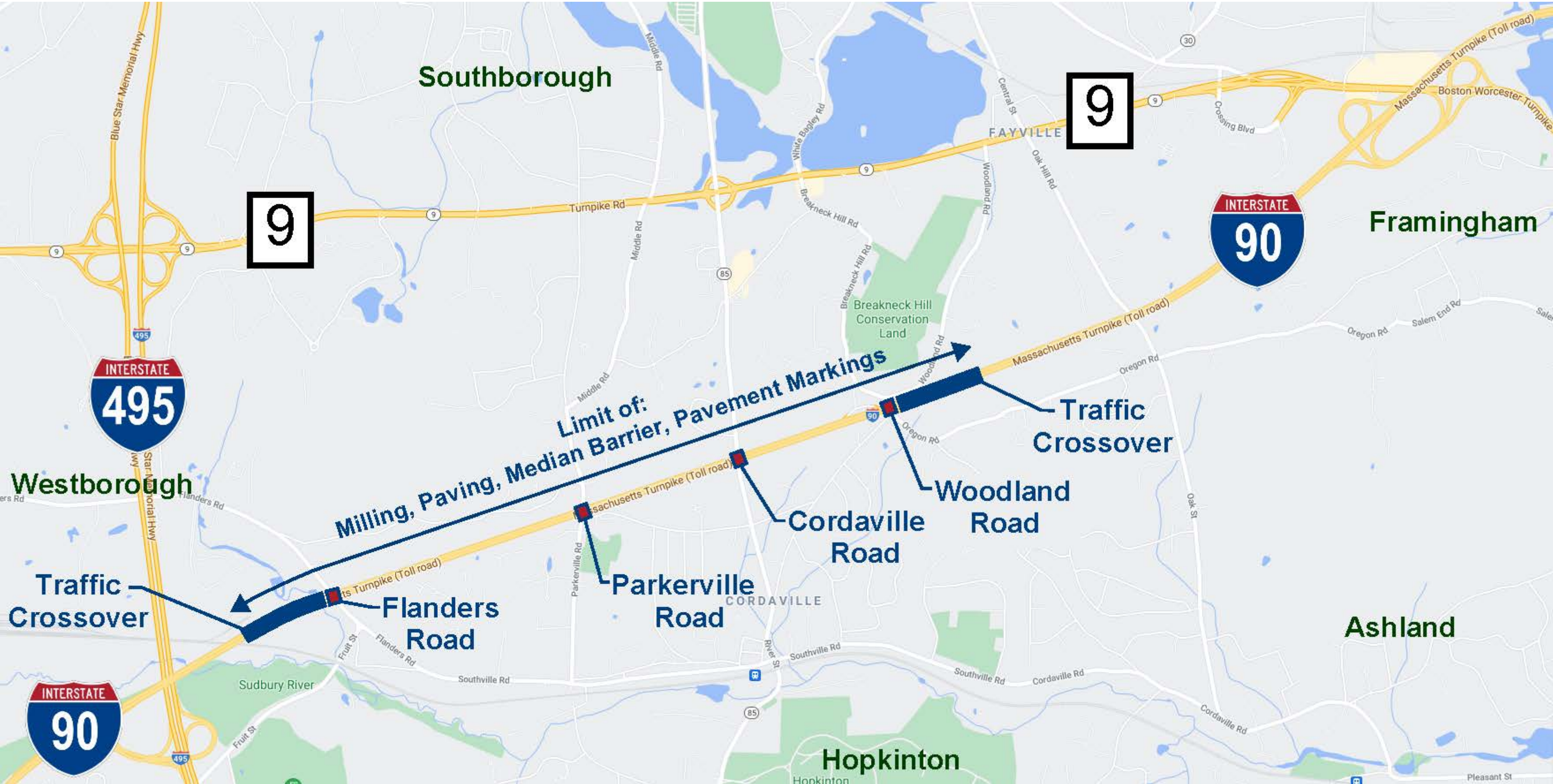


- If you prefer to type your question in the Q&A box it will be answered in the order received and read out by the moderator to the project team.
- To ask a question via phone, dial *9 and the moderator will call out the last 4-digits of your phone number and you will be unmuted when it is your turn.

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

Project Limits

Generally located between I-495 and Route 9





**Why is this
project
needed?**

Existing Bridge Conditions

Deteriorating abutment walls and bridge decks, rusting and corroding steel



What the Project Will Accomplish

- Replace 8 failing bridge decks and superstructures
 - Increase life of each bridge (75 Years)
- Improve clearance to local roadways below
- Increase Cordaville Road underpass width
- Rehabilitate abutments on Parkerville, Flanders and Woodland Roads
- Upgrade I-90 median barrier
- Upgrade I-90 driving surface and pavement markings
- Upgrade shoulder protection
 - New shoulder barrier & guardrail



How are we
constructing
the project?

Why We Chose the Design-Build Approach

MassDOT always seeks ways to minimize impacts to the public. The benefits of Design-Build (in this case Accelerated Bridge Construction) are:

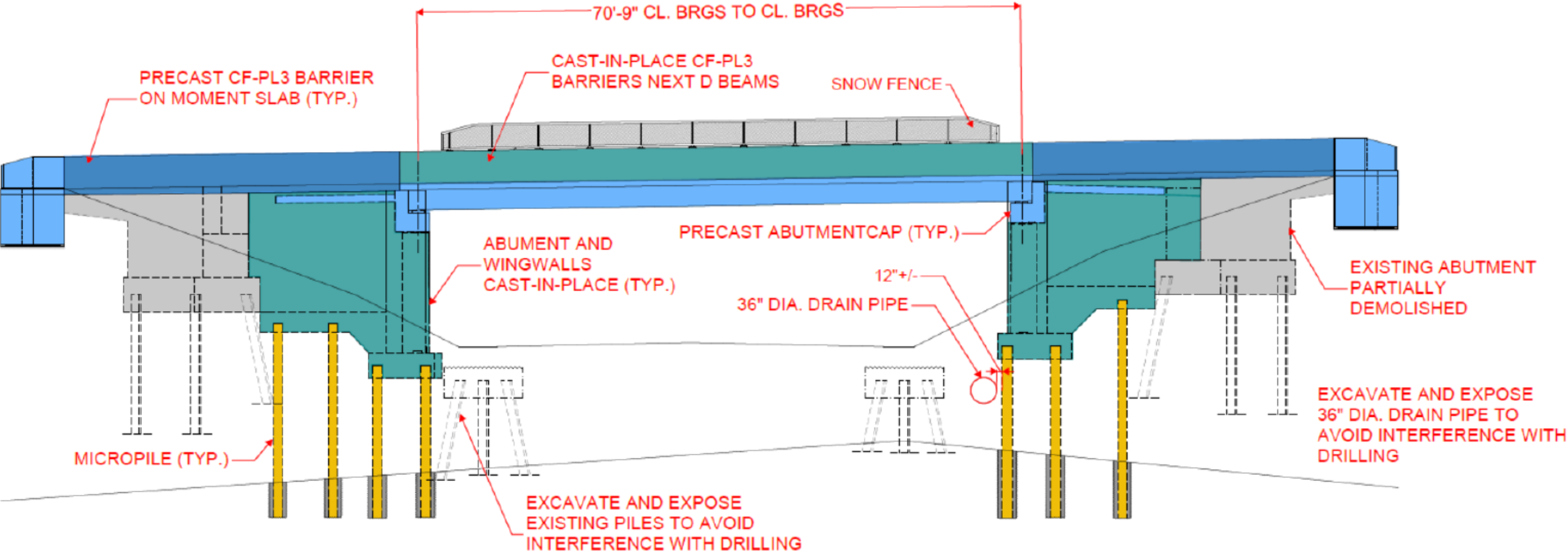
- One entity is responsible for both final design and construction
- Reduces the time needed to carry out the project – in this case from 3-4 years to 8 weekends
- Promotes collaboration between the engineers, contractor, and MassDOT staff

Accelerated Bridge Construction (ABC) Benefits

- Uses pre-cast elements, such as abutment caps
- Shortens construction duration
- Reduces traffic impacts on I-90 and local roads



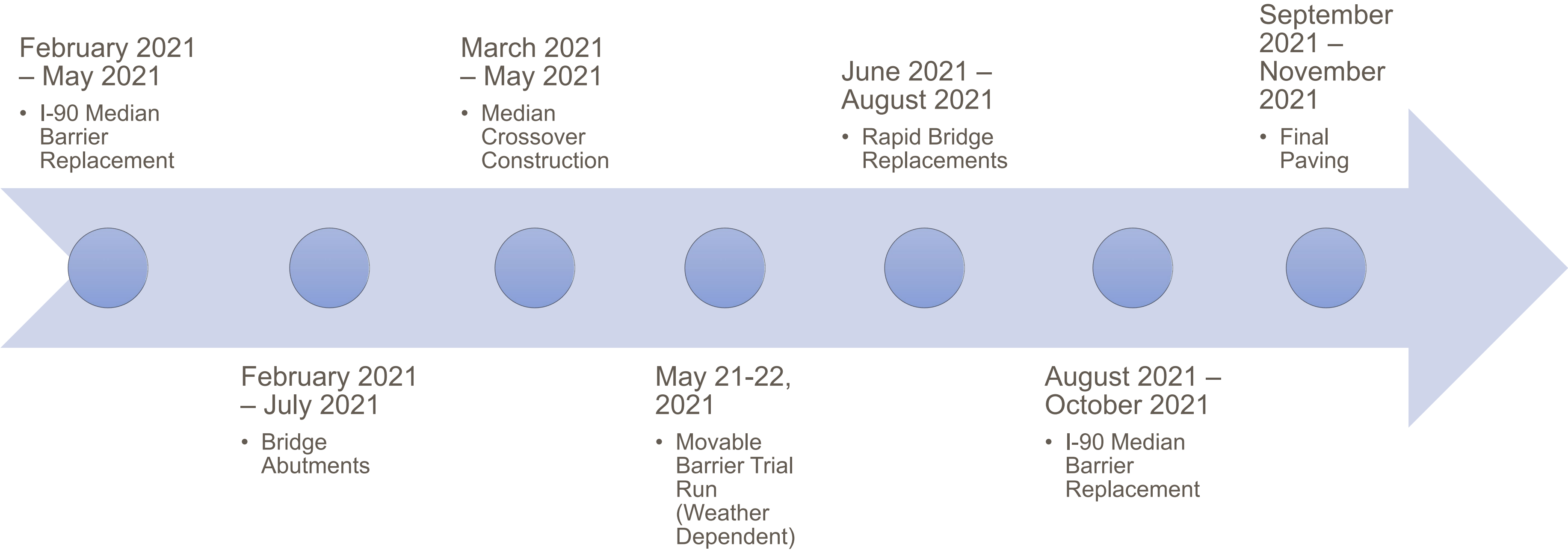
Cordaville Road Complete Bridge Replacement





**What is the
anticipated
schedule?**

Significant Construction Work Timeline



Construction Staging by Weekend

				56 Hour Work Window			
MassDOT I-90 Southborough - Westborough Acceler-8 Construction Sequence							
Wknd No.	Primary Work	Primary	Hwy.	Start	24 hrs per day over Weekend		End
	Location	Operation	Direction	FRI @ 9pm	SAT	SUN	MON @ 5am
Test	Trial Implementation of Traffic Crossovers		WB	5/21/2021	5/22/2021	5/23/2021	
	Alternate Date for Trial Test		WB	6/4/2021	6/5/2021	6/6/2021	
1	Woodland Road	Bridge Replacement	WB	6/18/2021	6/19/2021	6/20/2021	6/21/2021
2	Cordaville Road	Full Bridge Replacement	WB	6/25/2021	6/26/2021	6/27/2021	6/28/2021
3	Parkerville Rd & Flanders Rd	Bridge Replacements	WB	7/9/2021	7/10/2021	7/11/2021	7/12/2021
4	Woodland, Cordaville, Parkerville & Flanders	Waterproof & Pave	WB	7/16/2021	7/17/2021	7/18/2021	7/19/2021
5	Woodland Road	Bridge Replacement	EB	7/23/2021	7/24/2021	7/25/2021	7/26/2021
6	Cordaville Road	Full Bridge Replacement	EB	7/30/2021	7/31/2021	8/1/2021	8/2/2021
7	Parkerville Rd & Flanders Rd	Bridge Replacements	EB	8/6/2021	8/7/2021	8/8/2021	8/9/2021
8	Woodland, Cordaville, Parkerville & Flanders	Waterproof & Pave	EB	8/13/2021	8/14/2021	8/15/2021	8/16/2021

- ❖ Weekend replacement times: 9:00 PM on Fridays to 5:00 AM on Mondays
- ❖ Dates subject to change due to weather and other considerations

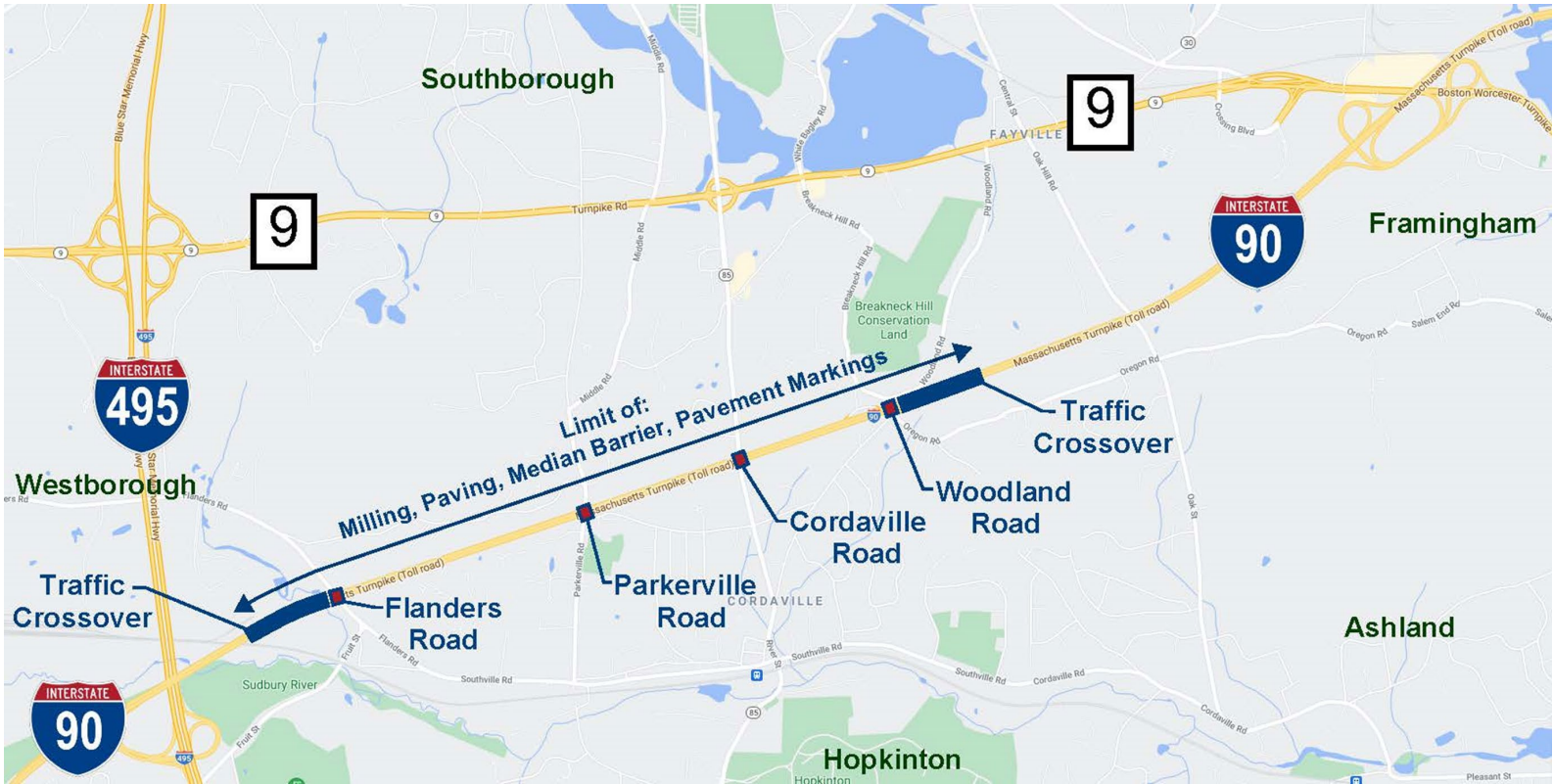
How We Chose the Weekends

MassDOT evaluated the lowest traffic volume months of May, June, July and August. The following factors were taken into consideration:

- Bridge replacement must be completed by September 2 - ahead of the Labor Day weekend
- Avoid Mother's Day, Memorial Day, and July 4th weekends – all lanes remain open during these weekends
- After removing the holiday weekends, the project team has 14 remaining weekends available to complete the 8 bridges, which allows flexibility for potential weather and other impacts
- Schedule Parkerville Road bridge work to avoid impacts to the Mary E. Finn Elementary School during the school year
 - Team is coordinating directly with the school
- Establish the 56-hour weekend shutdown times from 9:00 PM Friday to 5:00 AM Monday based upon:
 - Hourly traffic volumes
 - Congestion and queue lengths
 - Travel time impacts
 - Diversion analysis

May 21-22 I-90 Movable Barrier Trial Run

May 21-22 Movable Barrier Trial Run		
	Fri	Sat
	May 21	May 22
I-90 Westbound	Closed at 7:00 PM, traffic shifts to eastbound side	Opens at 6:00 PM
Bicycle access	N/A	N/A
Pedestrian access	N/A	N/A



- Trial run duration anticipated to be 23 hours
- Timeframe:
 - 7:00 PM on Friday, May 21 to 6:00 PM on Saturday May 22 – OR, if weather dictates
 - 7:00 PM on Saturday, May 22 to 6:00 PM on Sunday, May 23
- Should weather or other conditions cause the entire weekend to be canceled, the trial run will be held the weekend of June 4 using the same weather dependent windows (see above)



**What are the
impacts on
I-90?**

Movable Barrier

- Traffic will be shifted across the median and a zipper barrier will separate opposing vehicle movements
- Lanes will be reduced from 3 to 2 where traffic is shifted in the work zone



Multiple Work Areas During Weekend Traffic Set-ups

- Traffic is shifted at the crossover points.
- At the same time as one bridge is being replaced, work is ongoing at the other bridges on the same side of the highway to prepare for future replacements.
- May 21-22 trial run will begin at 7:00 PM on Friday and end at 6:00 PM on Saturday.
- Replacement weekend traffic shifts will begin at 9:00 PM on Friday and be removed by 5:00 AM on Monday for each bridge replacement.



Pre-Cast Components

Trucks delivering pre-cast bridge components will be staged along I-90 and local roads.

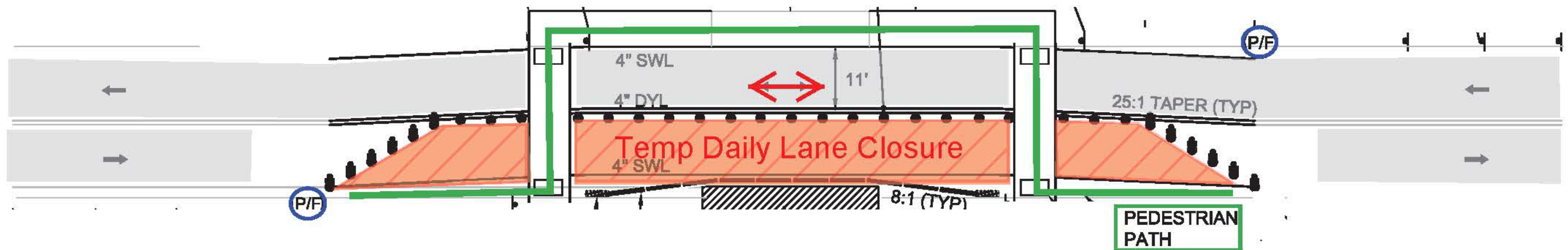




**What are the
impacts to your
neighborhood
local roads?**

How We Manage Travel During Bridge Abutment and Foundation Work

- During work hours, generally 7:00 AM to 3:30 PM, Monday through Friday, one alternating lane of travel is maintained
- Bicycle and pedestrian travel is maintained at all times
- After work hours, the roadway is reopened to two lanes of travel – one in each direction



Noise and Dust Mitigation

- **Noise**

- Site specific noise control plan will be implemented
- Conducted baseline noise survey to characterize the existing noise conditions
- Project noise control plan
 - Anticipated construction noise will be calculated consistent with the FHWA Roadway Construction Noise Model
 - Identify noise mitigation strategies in advance to reduce noise levels as much as possible prior to performing the work in the field
- Noise sensitive work
 - Bridge demolition from late Friday into early Saturday during bridge replacement weekends
 - Overnight work along entire project limits for crossover, median barrier, milling, paving and pavement marking operations

- **Dust**

- The contractor is required to submit a detailed dust control plan, including spraying water, which will be strictly enforced



**Progress to
date**

Off Site Pre-Cast Facility



Local Road Progress – Work Ongoing Since February



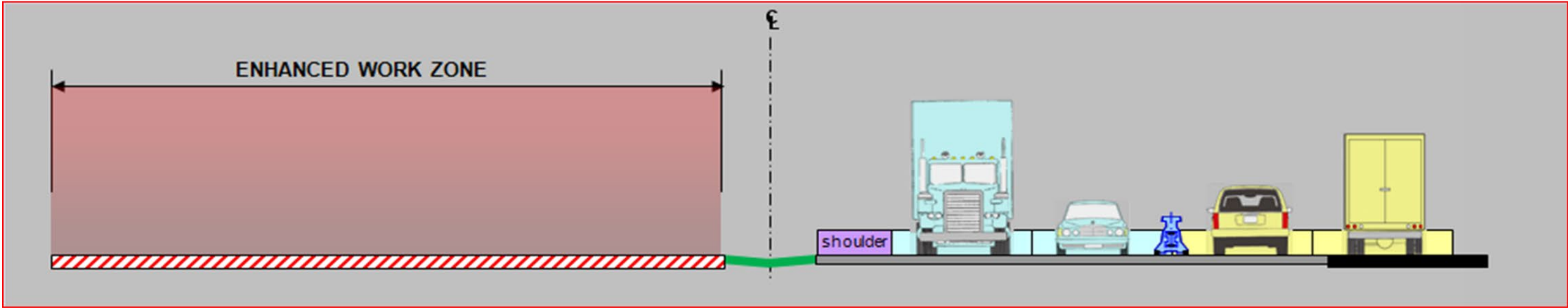


**How will the
road user be
affected?**

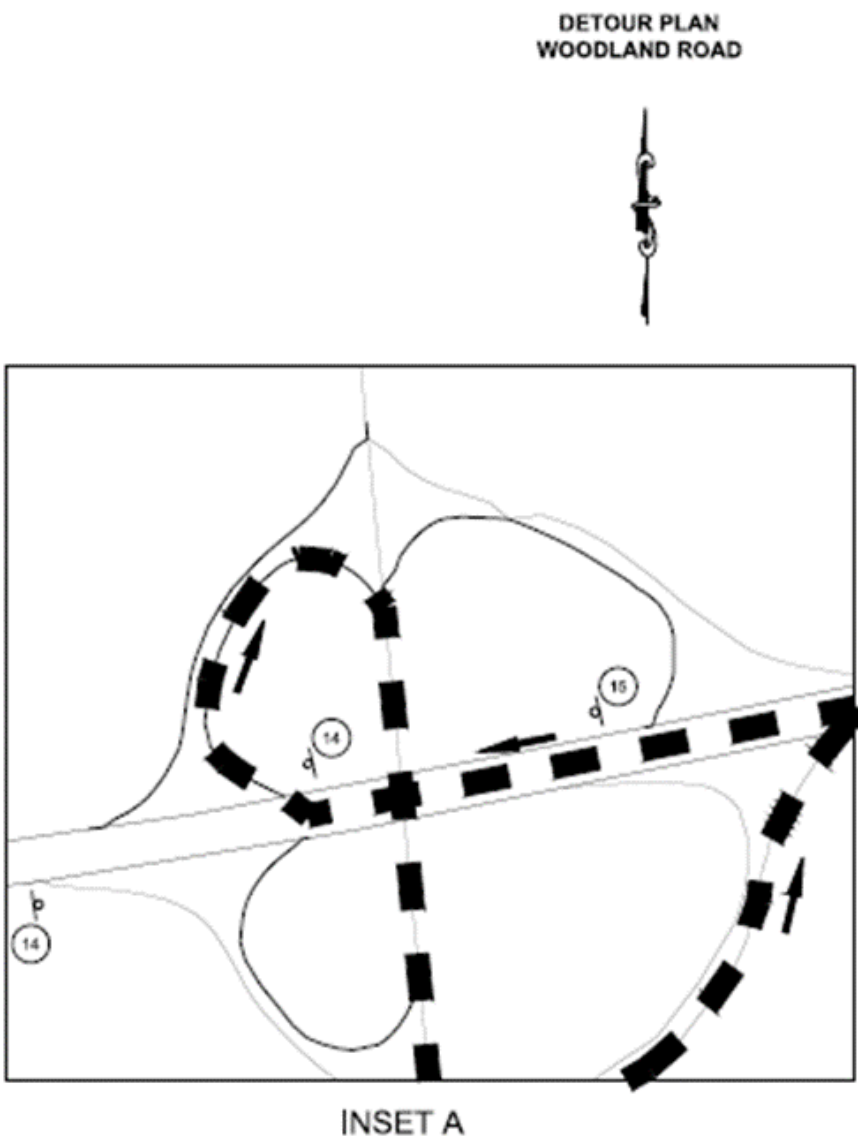
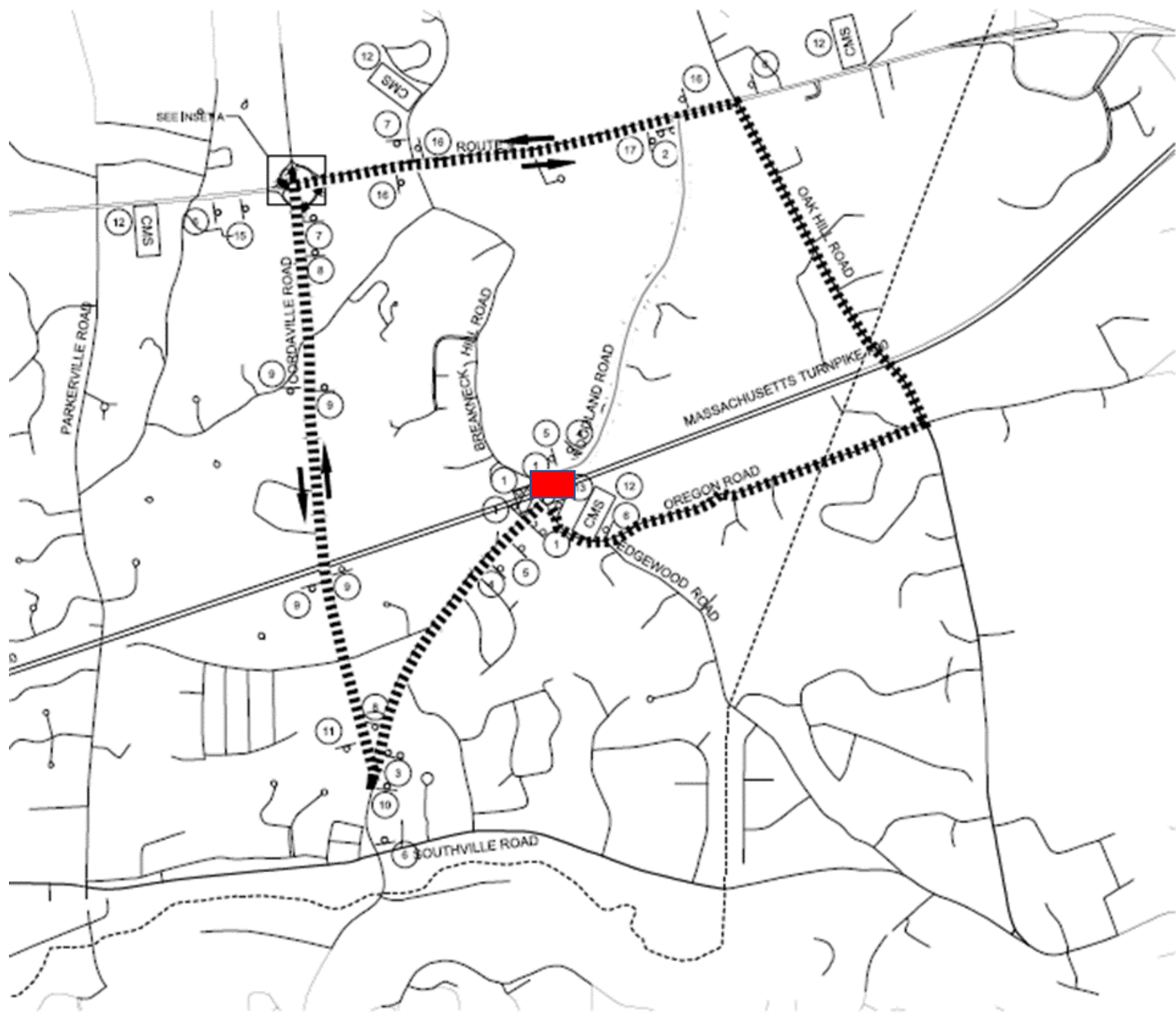
I-90 and Local Road Impacts During Bridge Replacements

- I-90 traffic will be shifted to the opposite side of the roadway using a median crossover
 - 2 lanes in each direction and a shoulder will be provided in each direction
 - Opposing traffic movements will be separated by a movable barrier
- Local roads under the bridges will be closed during the weekend and traffic detoured
- These local roads are rural/suburban and no pedestrian or bicycle accommodations are currently provided or will be available during detours

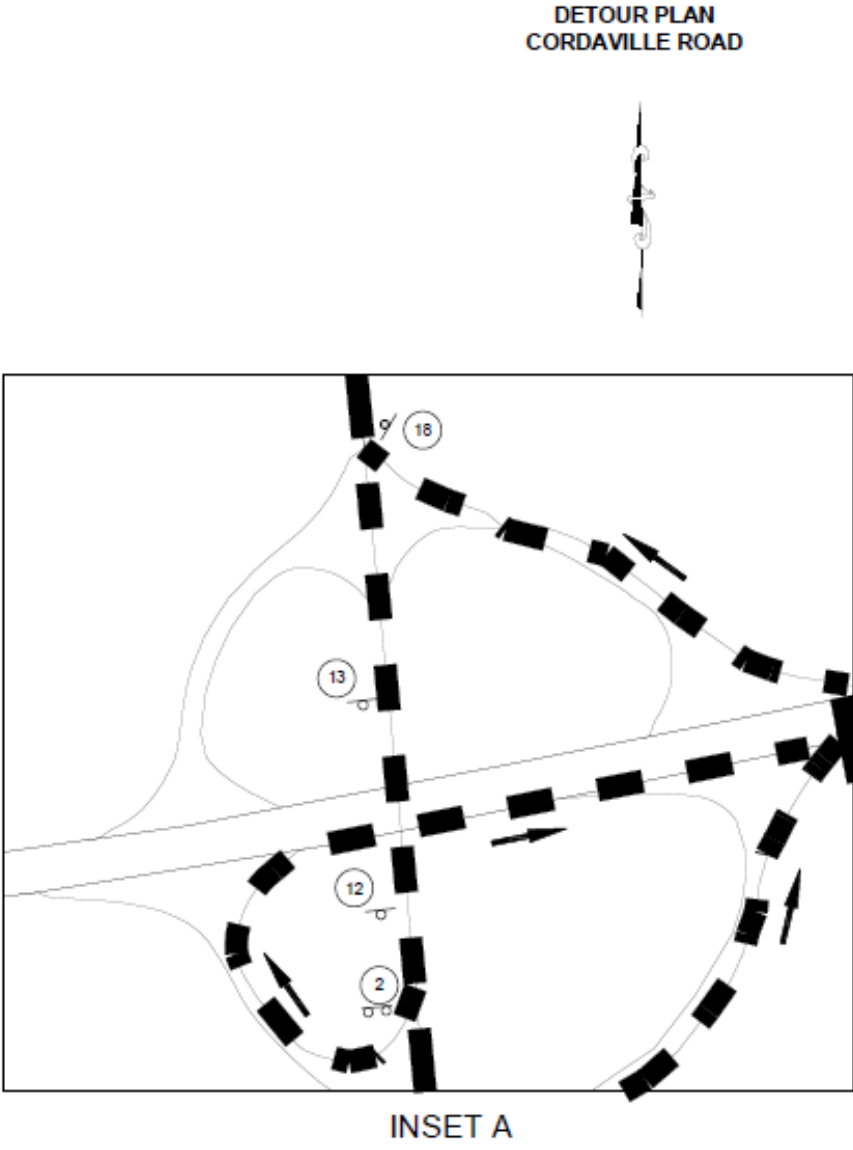
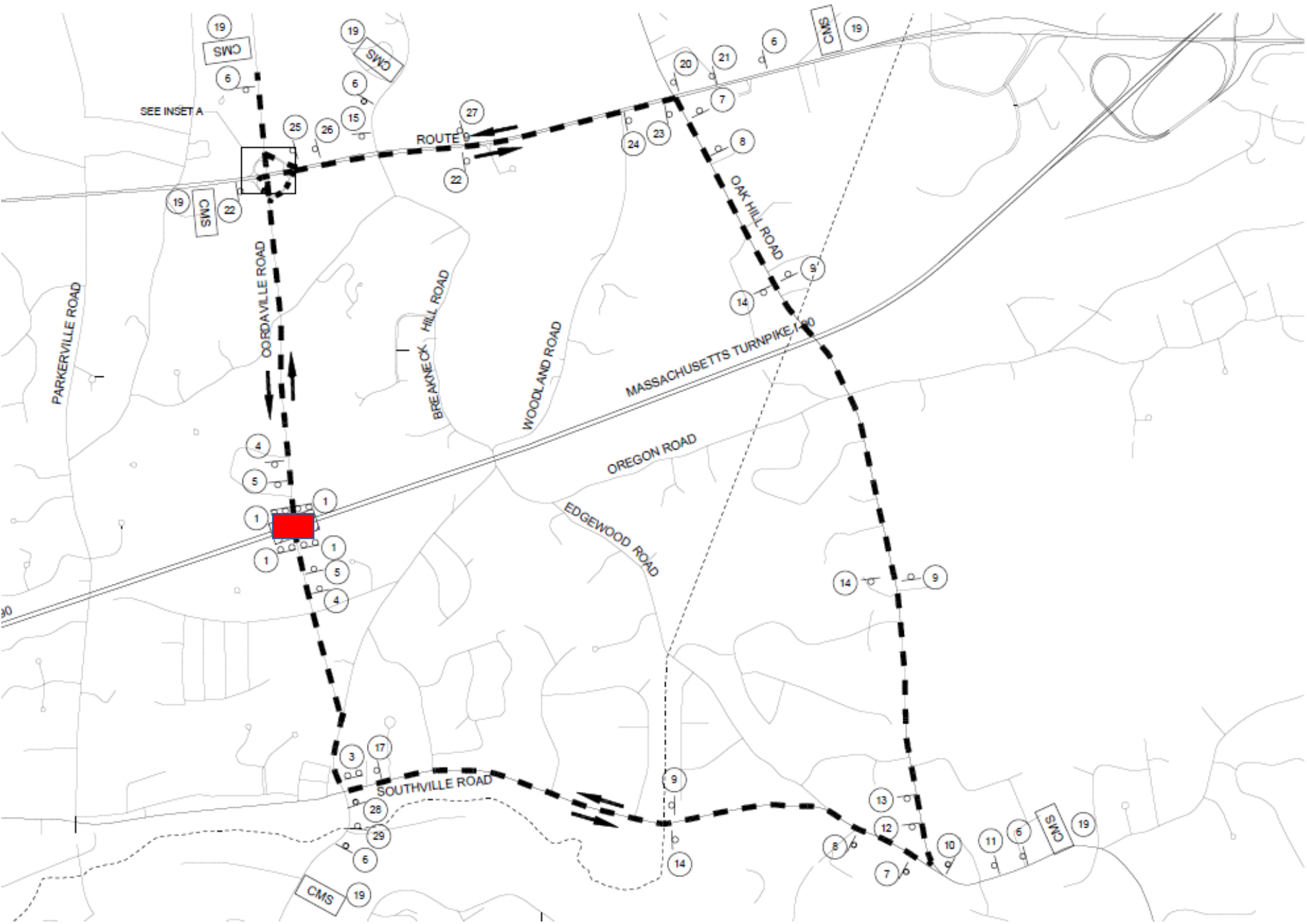
Use of Movable Barrier Similar to I-93 Fast 14 & Comm Ave Bridge on I-90



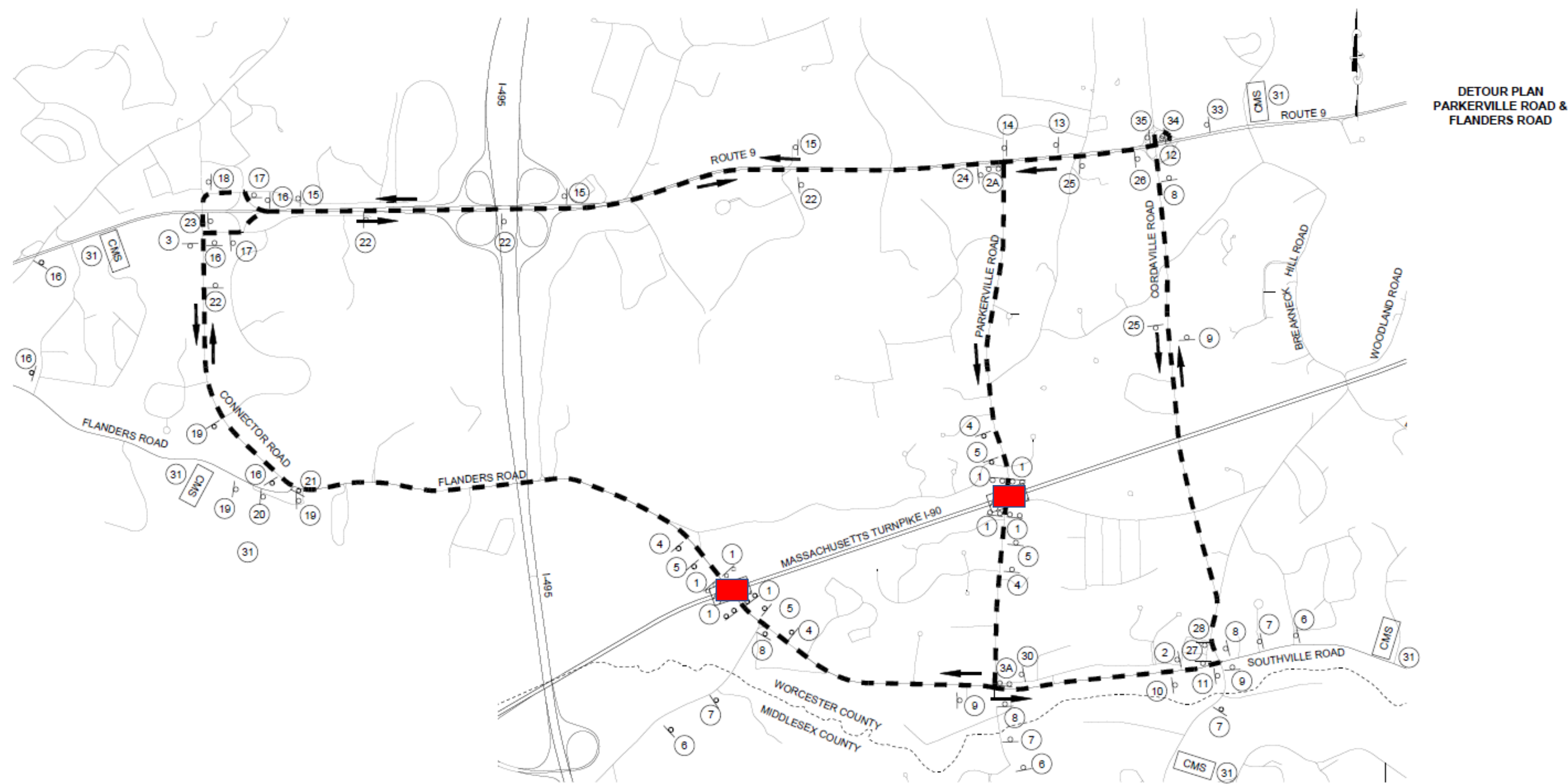
Local Detour Plans for Woodland



Local Detour Plans for Cordaville



Local Detour Plans for Flanders & Parkerville Roads



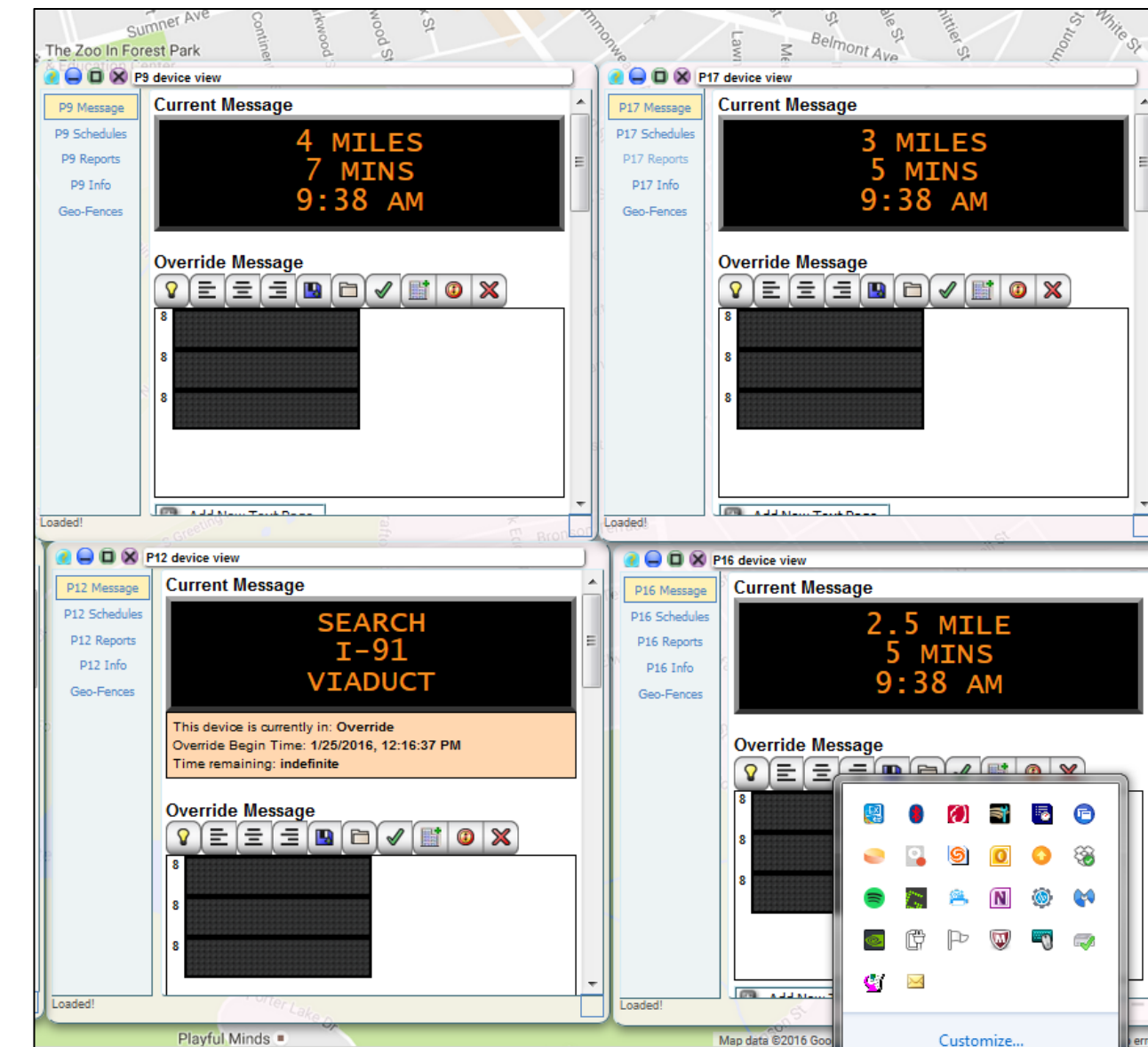
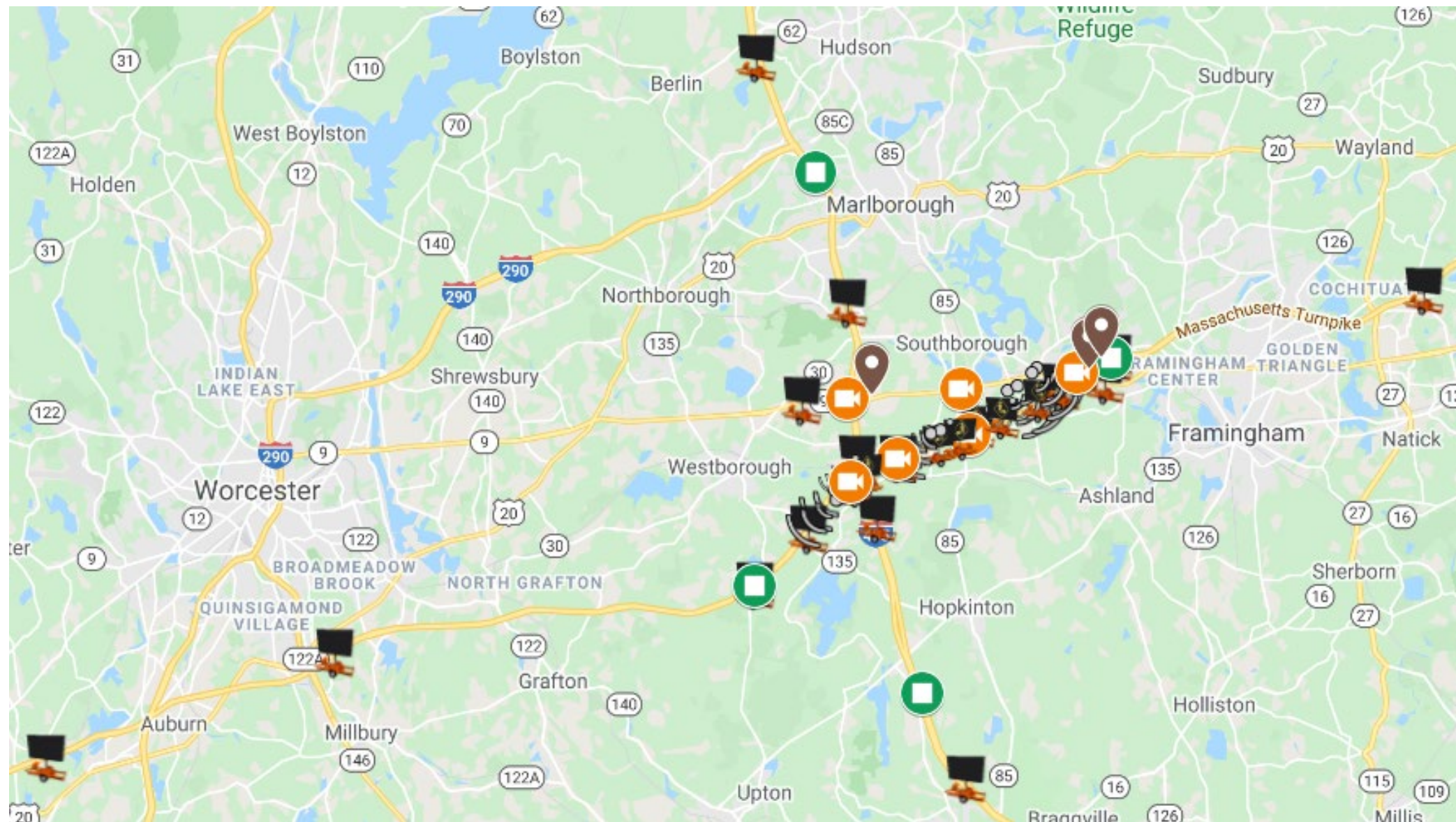


**How we'll
keep you
informed and
how you can
reach us**

Real Time Traffic Management

Alerts drivers to expected travel time to destination

Allows drivers to choose to take an alternate route, if desired



- Real Time Traffic Management (RTTM) systems, Regional PCMS and “Go Time” info
- Distance/Time info provided at multiple locations along the Mass Pike, I-495 and Route 9

How We'll Keep You Informed

- Alternating biweekly general construction and bridge abutter email updates through May, shifting to weekly updates in June prior to and during bridge replacements
- Dedicated project website
 - www.mass.gov/Acceler8Bridges
- Email advisories for traffic impacts and other impacts following team confirmation of weekend replacements
- Social media, 511 and media updates
- Highway Operations Center statewide signage activated
- Comprehensive email contact list
 - Email contact list includes other area projects, Chambers, TMAs, trucking and travel industries, local and regional elected officials, town departments, etc.
- Public information meetings
 - April 28, 2021 general update meeting
 - Bridge abutter specific meetings
 - Briefing for specialty groups such as organ transplant transports, ambulances, trucking, etc.

Planning Your Travel? Contact 511

Mass511

Plan the Right Route for Your Commute

Before you leave and on-the-go

- Live and personalized traffic reports
- Freeway travel times and speeds
- Construction, closures, and crashes
- Interactive traffic map on mass511.com

Call 511

for live reports anytime

My Mass511

for advance alerts by text or email

1. Visit mass511.com
2. Select **Register**
3. Check your email to confirm
4. Create **New Routes** for your needs



How to Reach Us

For emergencies:

- Call 9-1-1

For questions, comments, and concerns:

- Email us at A8@dot.state.ma.us

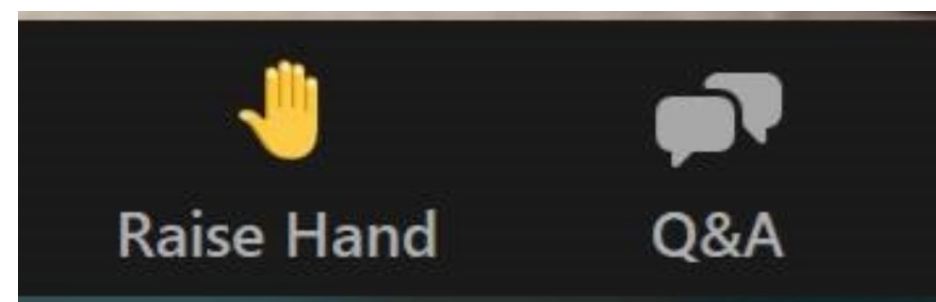
For project updates and more information:

- Visit the website at <http://www.mass.gov/Acceler8Bridges>
- where you can also sign up for the project email list to receive meeting notices and advisories.

Questions and Answers

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Thank You

Acceler-8

I-90 Bridge Replacements

April 28, 2021

