



Design Public Hearing

Bridge Replacement of Route 27 (North Main Street) over Route 9 (Worcester Street) and Interchange Improvements

Virtual Meeting | Thursday, June 15, 2023 | 7:00 PM

Project File No. 605313



Zoom webinar controls



- Listen in English



- Ask a question and share comments



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- Use the View button in the upper right-hand corner to adjust the meeting view settings to your preference



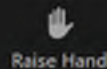
Live Transcript

- Closed captioning automatically generated by Zoom

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Q&A



Interpretation



Live Transcript

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Public meeting notes and procedures

Notification of video recording

- This virtual public hearing will be recorded. The Massachusetts Department of Transportation may choose to retain and distribute the video, images, audio, and/or chat transcript.
- All parts of this hearing are considered public record.
- By continuing attendance with this virtual public hearing, you are consenting to participate in a recorded event.
- If you are not comfortable being recorded, please turn off your camera and keep your microphone muted, or you may choose to excuse yourself from the meeting.

Important notes

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

All questions and comments are welcome and appreciated, however we do request that you refrain from any disrespectful comments.

Notice of MassDOT's policy on diversity and civil rights

- All MassDOT activities, including public meetings, are free of discrimination.
- MassDOT complies with all federal and state civil rights requirements preventing discrimination based on sex, race, color, ancestry, national origin (limited English proficiency), religion, creed, gender, sexual orientation, gender identity or expression, or veteran's status.
- 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!

Introduction – Presentation Participants

- **MassDOT Project Manager**
 - Lawrence Cash, P.E.
 - Ashish Patel
- **MassDOT District 3**
 - Ann Sullivan
 - Lori Shattuck
- **MassDOT ROW Agent:**
 - Melissa O'Day
- **MassDOT Producers**
 - Joe Yoo
 - Christopher Klem
- **Consultant Design Team**
 - Joseph Johnson, P.E, PTOE
 - Christopher Howard, P.E.
- **Town of Natick**
 - James Errickson

Introduction – Recent Public Outreach

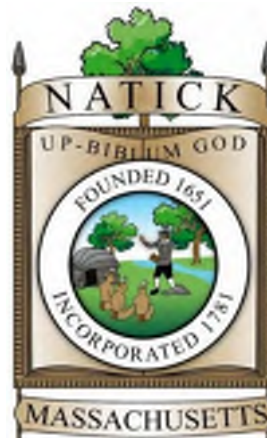
- **Natick Report**
 - Posting on May 18th
- **Metro West Daily News**
 - Posting on June 1st and June 8th.
- **Project Website**
 - <https://www.mass.gov/info-details/design-development-route-27-over-route-9-interchange-improvements-natick>
- **MassDOT Facebook and Twitter**
 - facebook.com/massdotinfo/
 - twitter.com/MassDOT



METROWEST
DAILY
NEWS



U.S. Department
of Transportation
Federal Highway
Administration



Design Public Hearing Natick – Route 27 over Route 9 Interchange

What is happening?

The purpose of this hearing is to provide the public with the opportunity to become fully acquainted with the proposed bridge-replacement project and interchange improvements. All views and comments submitted in response to the hearing will be reviewed and considered to the maximum extent possible.

How will this affect you?

The proposed project consists of replacing the structurally deficient Bridge No. N-03-020 which carries North Main Street (Route 27) over Worcester Street (Route 9) and includes the reconfiguration of the interchange to a modified Diverging Diamond Interchange (DDI) configuration. The reconfiguration will provide safety improvements, reduced traffic congestion through the interchange and improved bicycle and pedestrian facilities using separated shared-use paths and sidewalks. The project length is approximately 3,000 feet along Route 9 and 2,100 feet along Route 27. The work will also include proposed transit stops along Route 27 and Route 9 along with reconstructed sidewalks, drainage improvements, traffic signals, retaining walls, utility relocations, signing, roadway lighting and landscaping.

When

Thursday, June 15th, 2023
7:00 PM

Attend

www.mass.gov/info-details/design-public-hearing-natick-route-27-over-route-9-interchange



Visit <https://www.mass.gov/info-details/design-public-hearing-natick-route-27-over-route-9-interchange> for more info



To ensure its meetings are accessible, MassDOT reasonably provides translation, interpretation, modifications, accommodations, alternative formats, and auxiliary aids and services. To request such services, please contact MassDOT's Chief Diversity and Civil Rights Officer at 857-360-6588 or MassDOT.ChiefDiversity@dot.state.ma.us. For adequate time to process such request, please make them as early as possible, ideally 10-15 days prior to the event.

Project inquiries may also be emailed to massdotprojectinfo@dot.state.ma.us. Please submit any written statements regarding the proposed undertaking to: Carrie A. Levesque, P.E., Chief Engineer, MassDOT, 10 Park Plaza, Boston, MA 02116, Attention: MAJOR PROJECTS, PROJECT FILE NO. [FILE NO. 606212]



Agenda

- 01 Project Location
- 02 Project History
- 03 Project Needs & Goals
- 04 Design Alternatives
- 05 Proposed Design
- 06 Right-of-Way Discussion
- 07 Construction Impacts
- 08 Next Steps
- 09 Questions & Answers



Project Location



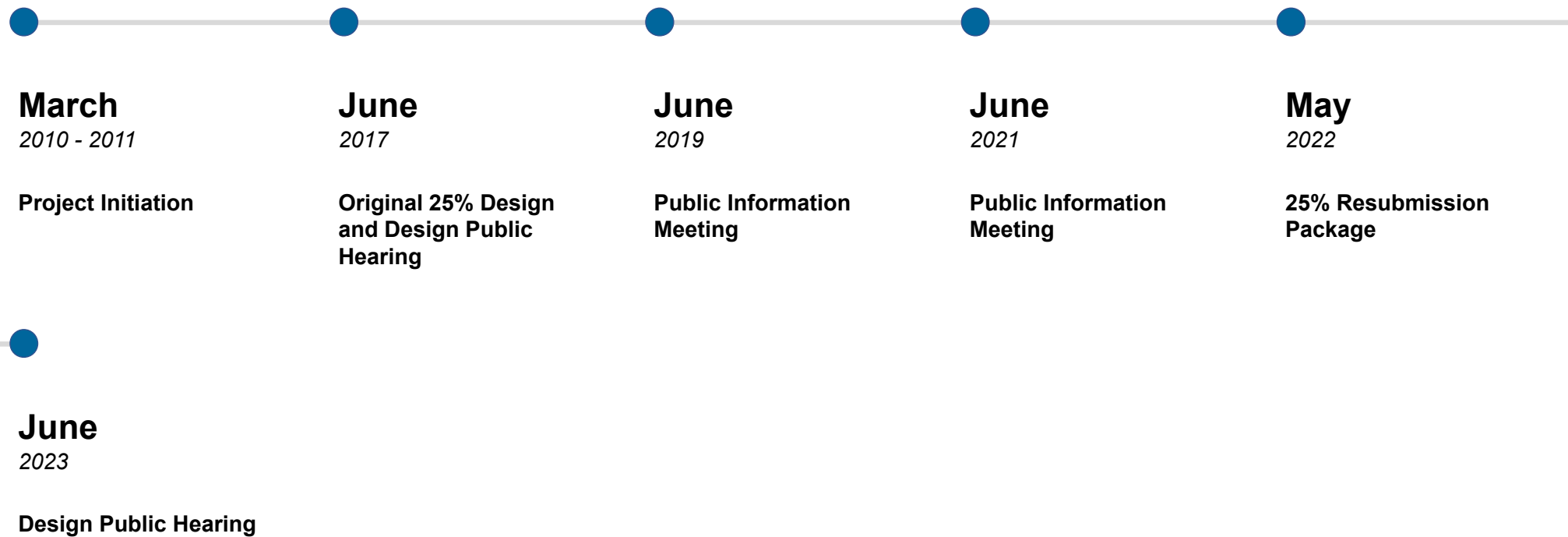
ROUTE 9

65,000
Vehicles / Day

ROUTE 27

23,000
Vehicles / Day

Project History – How did we get here?



Project Costs

Funding Sources

- Federal Aid Funding
- MassDOT
- FY 24 Schedule
- Expedited ROW

Anticipated Project Costs

- \$81 Million (Design Build)





**Why was this
project
initiated?**

Project Needs & Goals

 **Bridge Replacement**

 Increase Safety

 Improve Mobility

 Improve Congestion



Project Needs & Goals

 Bridge Replacement

 **Increase Safety**

 Improve Mobility

 Improve Congestion

404

354

2010 - 2013

2016 - 2018



Project Needs & Goals

 Bridge Replacement

 Increase Safety

 Improve Mobility

 Improve Congestion



Project Needs & Goals

-  Bridge Replacement
-  Increase Safety
-  Improve Mobility
-  Improve Congestion



Project Needs & Goals – Improve Congestion



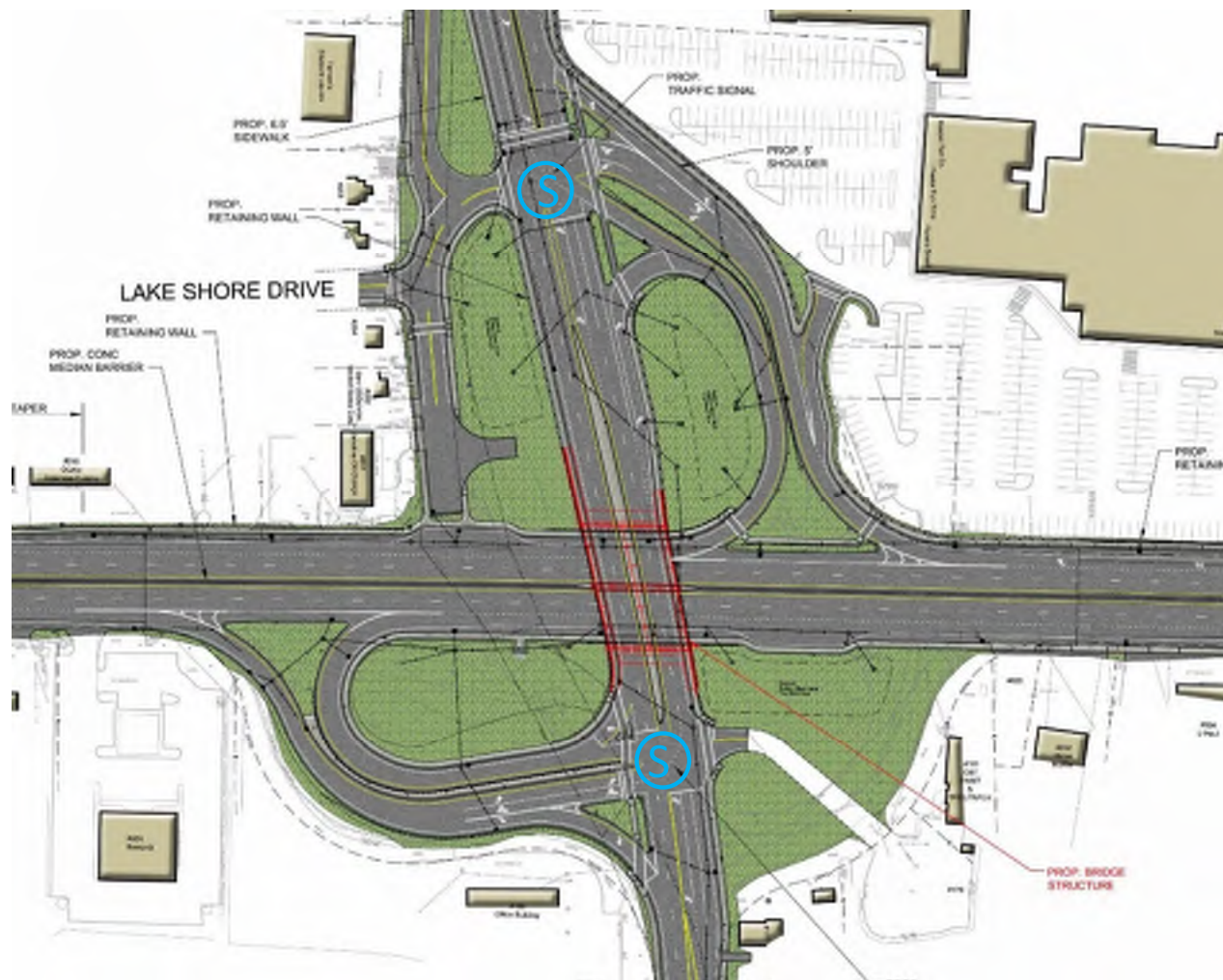


**What
alternatives
were
considered?**



Initial 25% Design (June 2017)

- Safety
 - Pedestrian Facilities
 - Bicycle Facilities
- Traffic Congestion
 - U-Turns
 - Diverted Trips
- Multi-Phase Traffic Signals
Could Increase Congestion



Guiding Principles



Replace Bridge Structure



Improve Safety for All Users



Provide Multi-Modal Accommodations



Enhance Mobility for All Users



Improve Congestion



Support Natick's Quality of Life

Options Evaluated

Single Point Urban
Interchange



Signalized 'Circle'



'Teardrop' Interchange



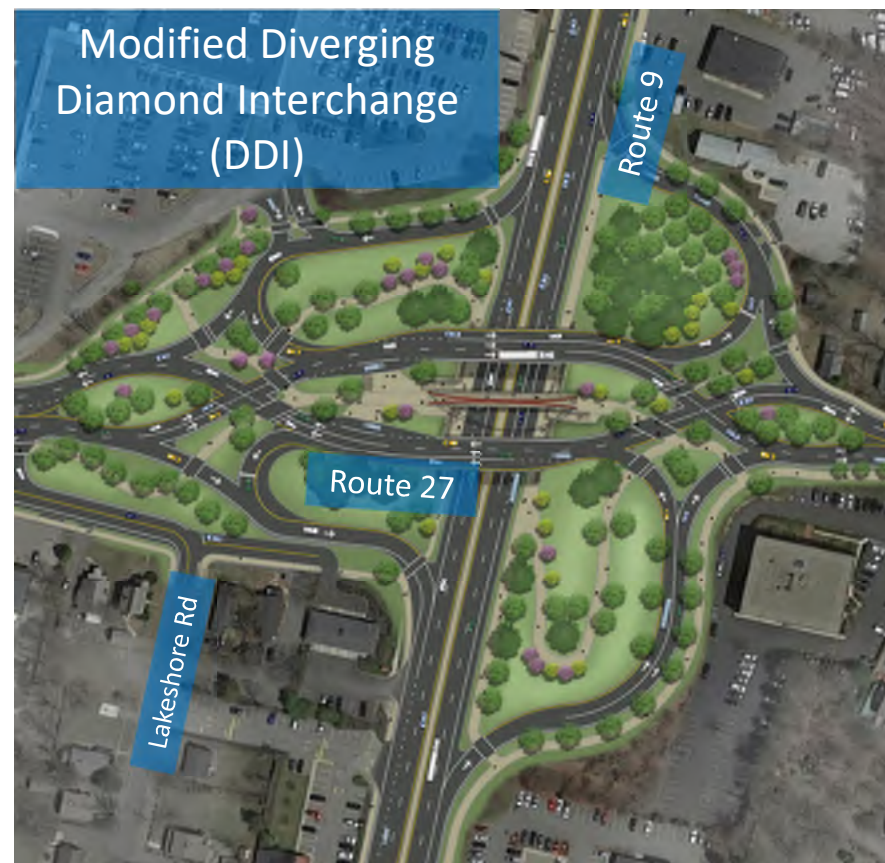
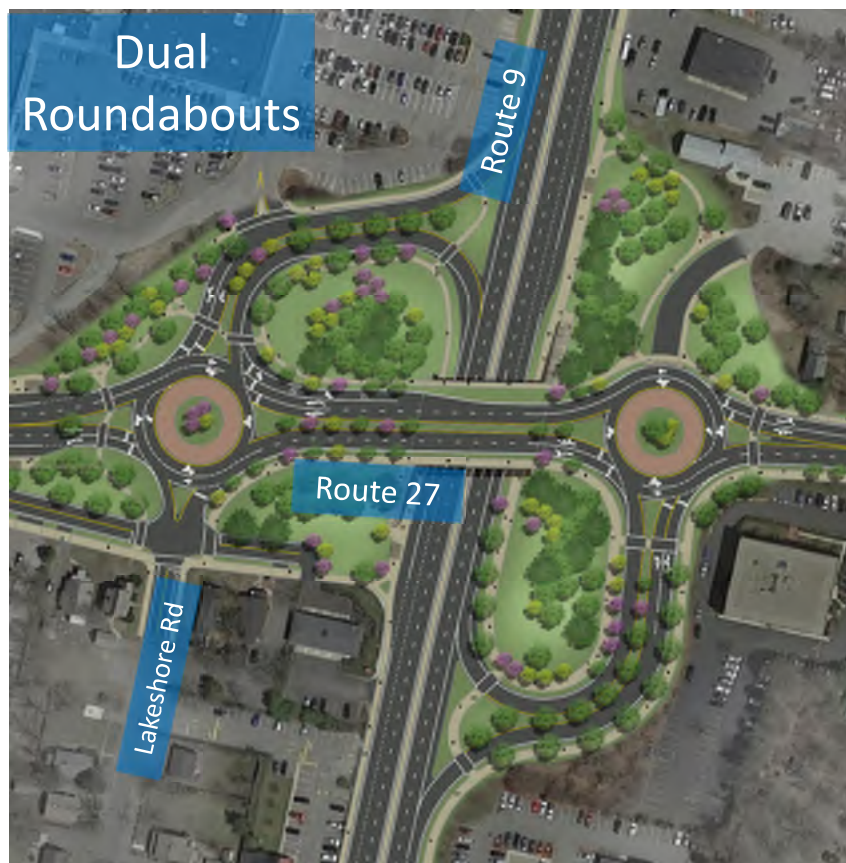
Partial Cloverleaf
Interchange (V1)



Partial Cloverleaf
Interchange (V2)



Preferred Alternatives



Public Meeting (June 2019)

CONCEPTUAL DESIGN COMMENT FORM

605313 Bridge Replacement & Interchange Improvements at Rt 27 (North Main St) Over Rt 9 (Worcester St), Natick

Name (optional)

Email (optional)

Category	25% Concept Traffic Signals	Concept 1 Roundabouts	Concept 2 Modified Diverging Diamond	Comments
Overall Safety	Red	Yellow	Green	Pedestrian Safety + traffic flow is important. Keep people moving with controlled incidents.
Pedestrian Accommodation	Red	Green	Green	I like the pedestrian/bike paths and controlled cross signals.
Bicycle Accommodation	Red	Green	Green	
Transit Options	Yellow	Green	Green	
Traffic Operations (congestion & delay)	Red	Yellow	Green	Synchronized signals + added acceleration lanes will assist traffic flow + should reduce accidents.
Community Health	Yellow	Green	Green	Reduced stress is best. Open "green" areas is appealing on the eye + looks more natural. Great choice for a suburban community like Natick.
Accommodation of Route 9 U-Turns	Yellow	Green	Green	Smooth flow with good traffic signs illustrating clear directions for drivers will reduce incidents.
Neighborhood Connectivity	Yellow	Green	Green	Everyone will benefit using easy to follow pedestrian paths.
Business Access/Egress	Green	Green	Green	Currently Rt 9 creates a connection barrier especially for kids.
Construction (Duration / Impacts)	Yellow	Yellow	Green	Building around the existing bridge would greatly reduce daily driving impact.
Aesthetics	Red	Yellow	Green	Pedestrian paths lined with trees is pleasing to the eye as opposed to a single urban interchange with neither or no recreation paths.

Please provide any additional comments here or on the back of this form:

Great job in creating a complex interchange and focusing on safety + community aspects. Thank you.



June 12, 2019

Dual Roundabout

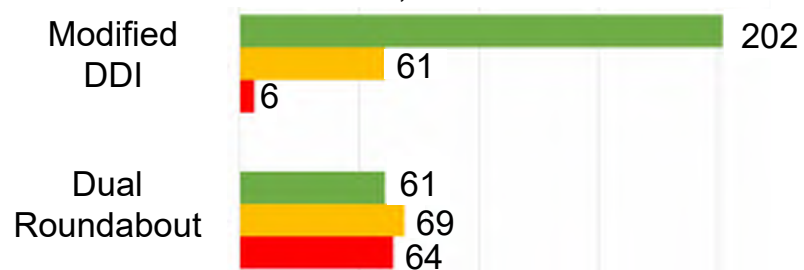


Modified Diverging Diamond



Public Information Meeting Preferences
June 12, 2019

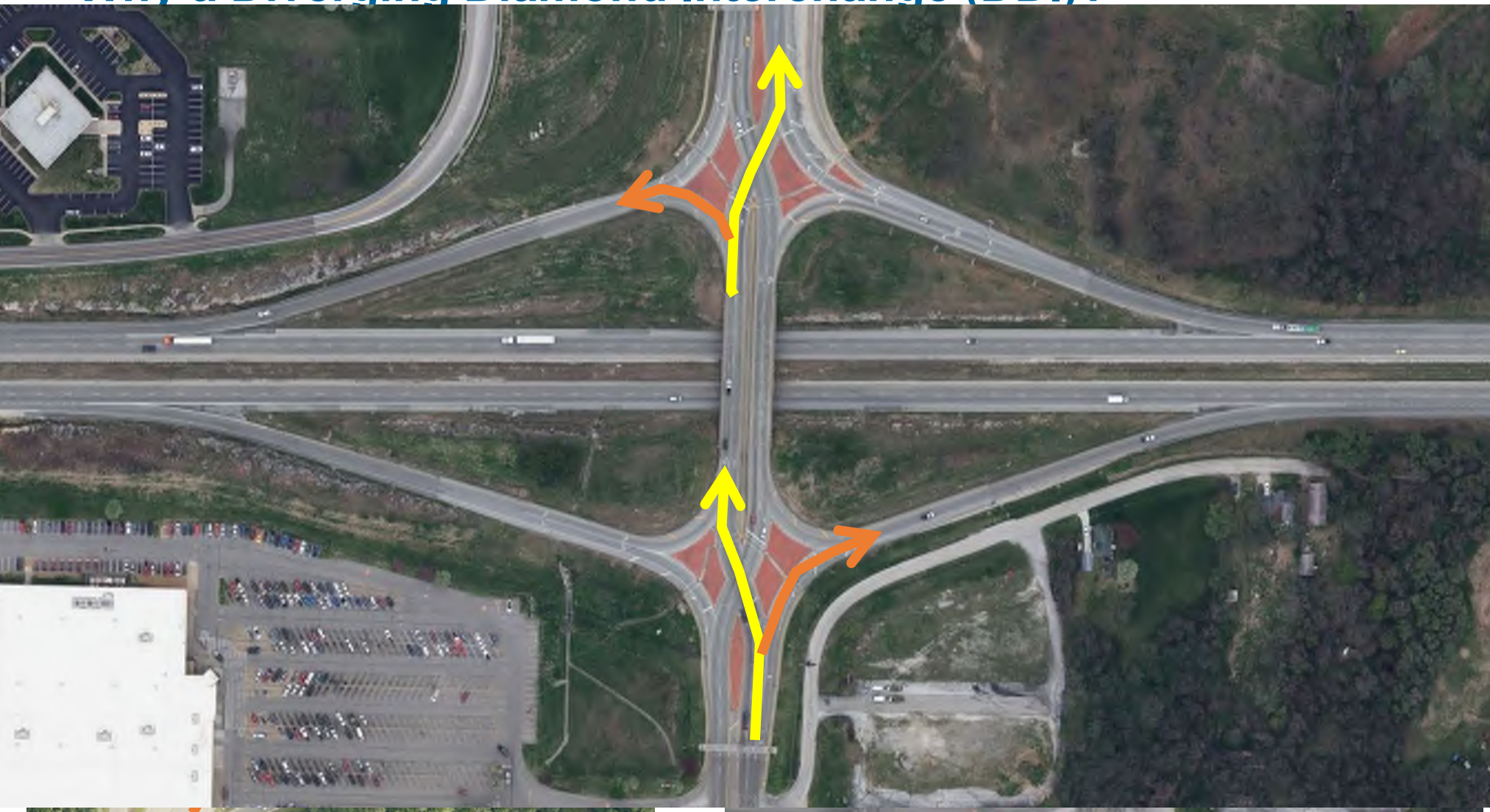
- = Positive Reaction
- = Neutral Reaction
- = Negative Reaction



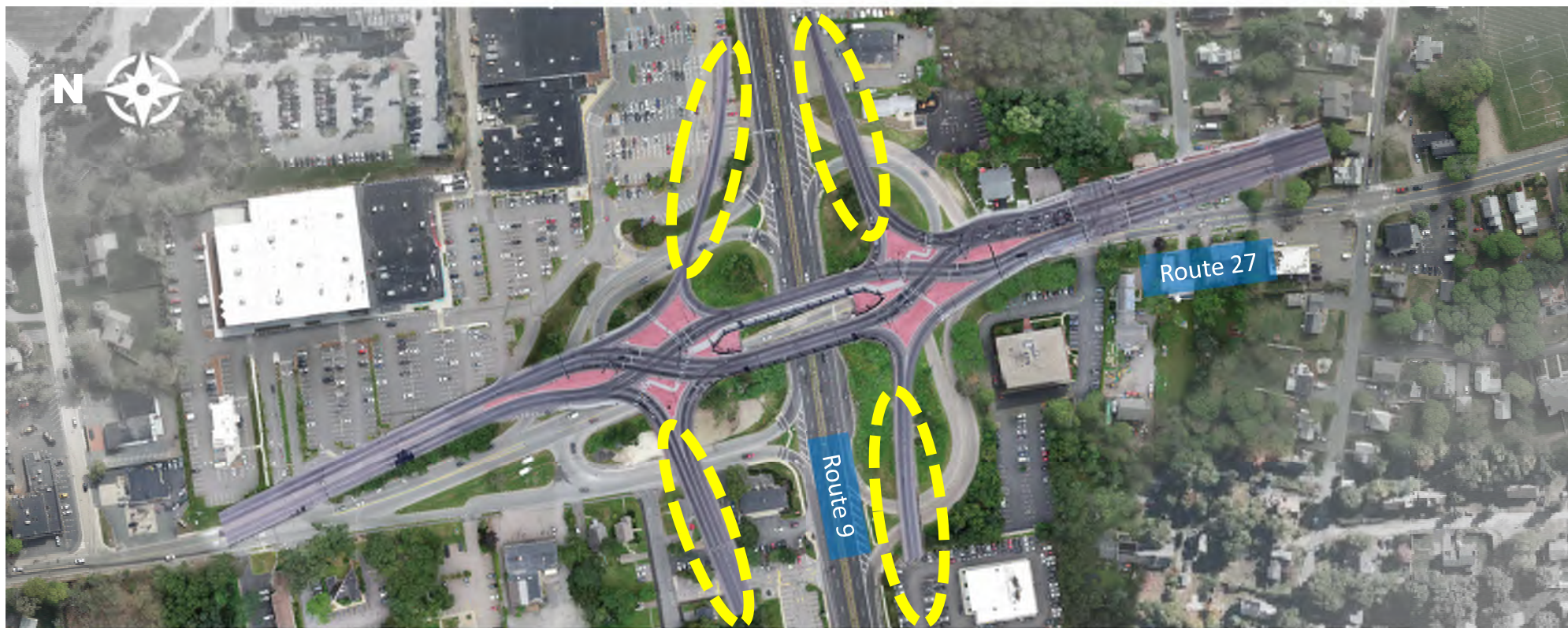


**What are we
proposing?**

Why a Diverging Diamond Interchange (DDI)?



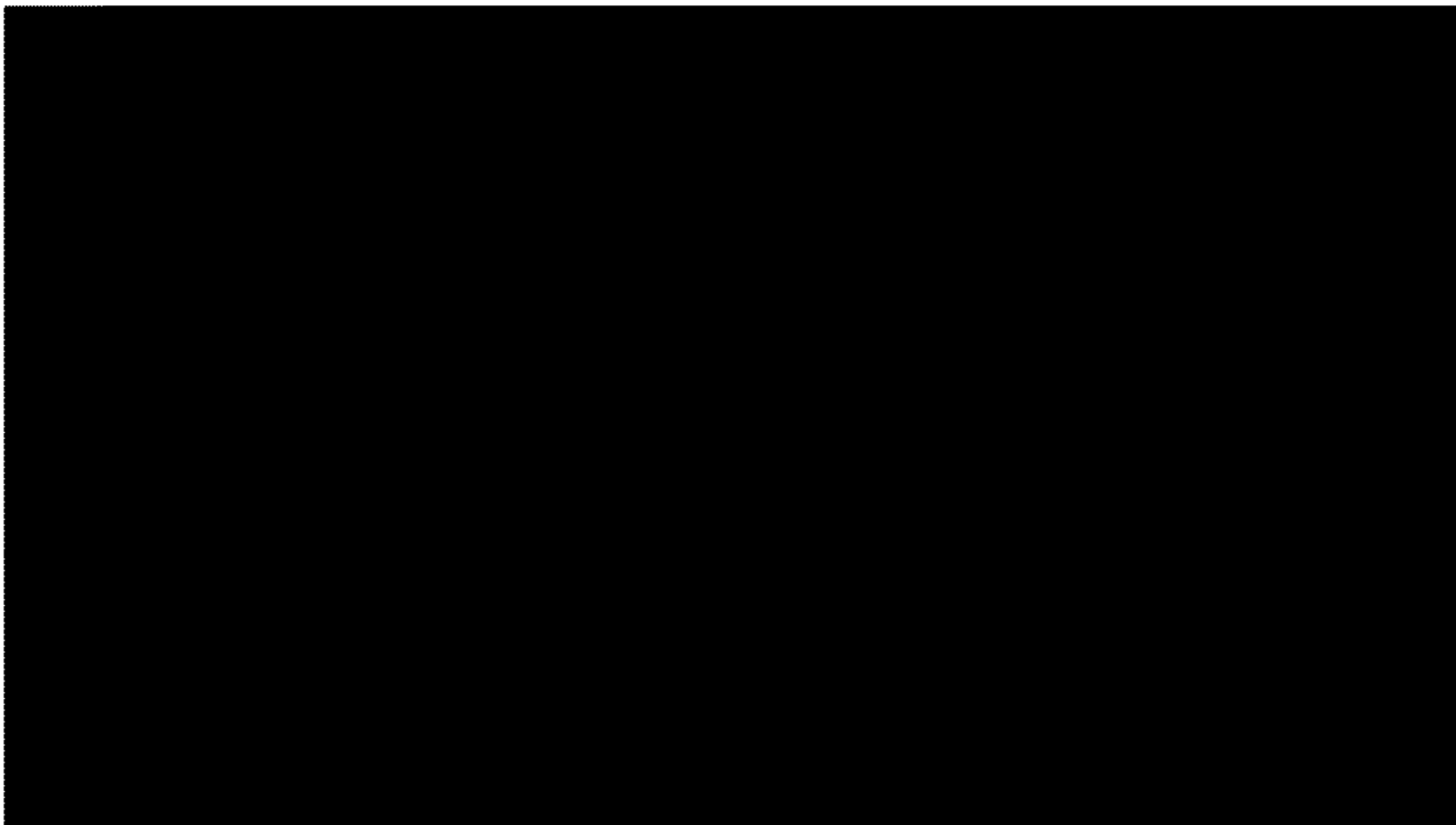
Traditional Diverging Diamond Interchange



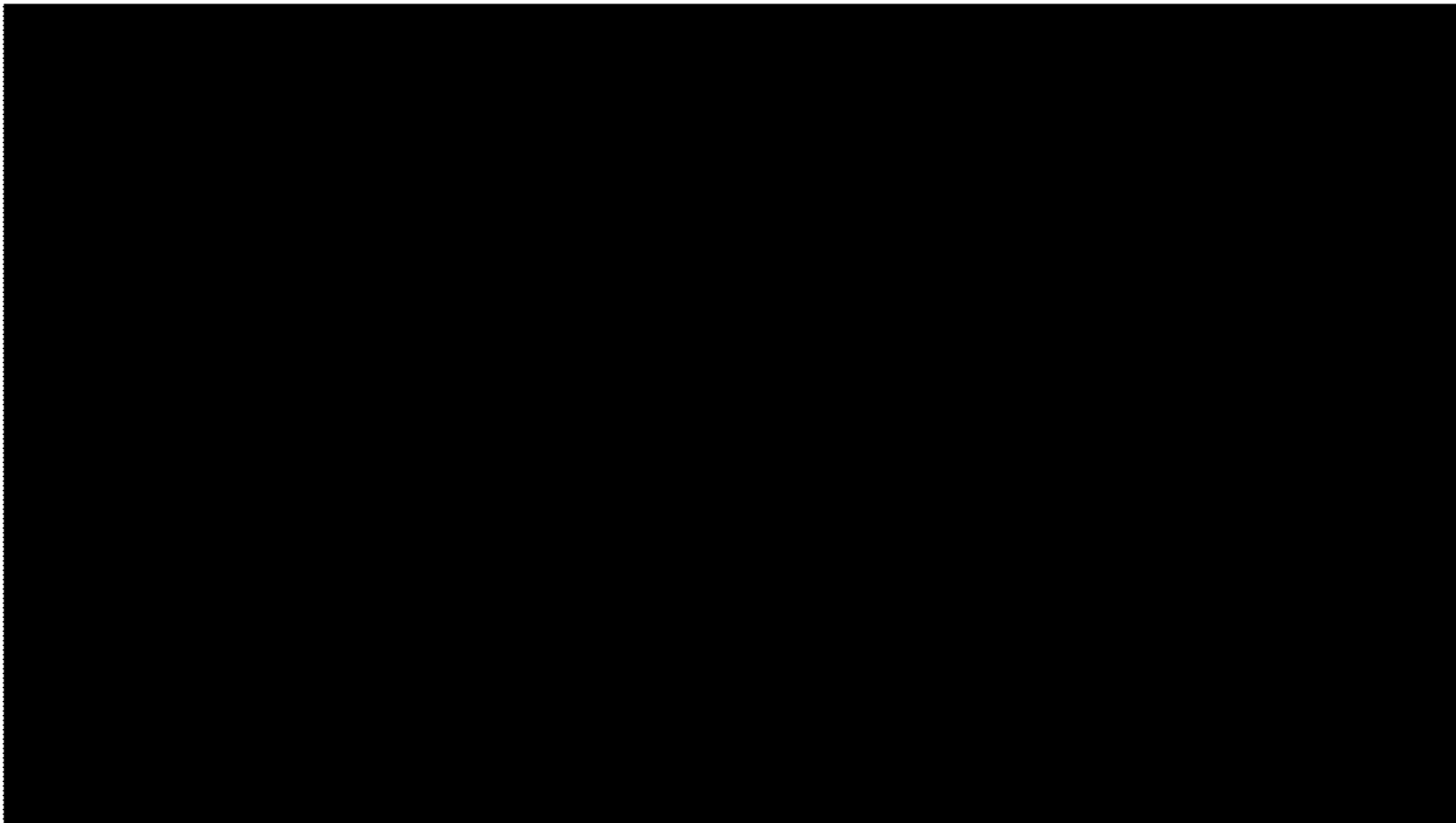
Modified Diverging Diamond Interchange



Route 9 to Route 27 Drivers Perspective



Route 27 Southbound Drivers Perspective

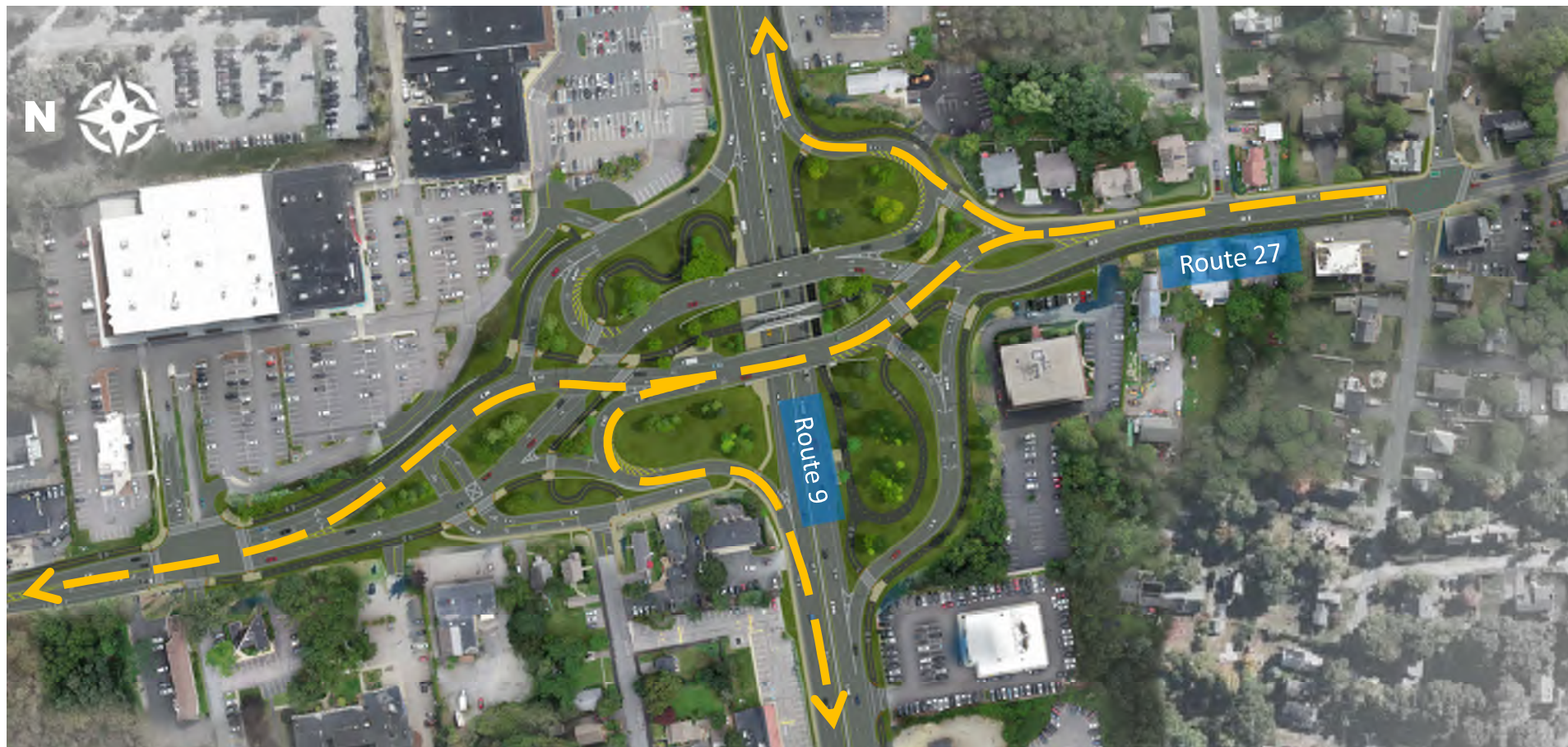


Project Integration



Modified Diverging Diamond

RT 27 NB – Vehicle Flow



Modified Diverging Diamond

RT 27 SB – Vehicle Flow



Modified Diverging Diamond

RT 9 – U-Turns



Bicycle and Pedestrian Accommodations

Route 27 SUP Network



Bicycle and Pedestrian Accommodations

Route 9 SUP Network



Proposed Bus Stops






Route 9 & 27 Transit Stops



Modified Diverging Diamond

Bicycle/Pedestrian Network

Shared Use Path = 
Sidewalk = 
Bus Stop = 



Additional Design Aspects



Proposed Drainage

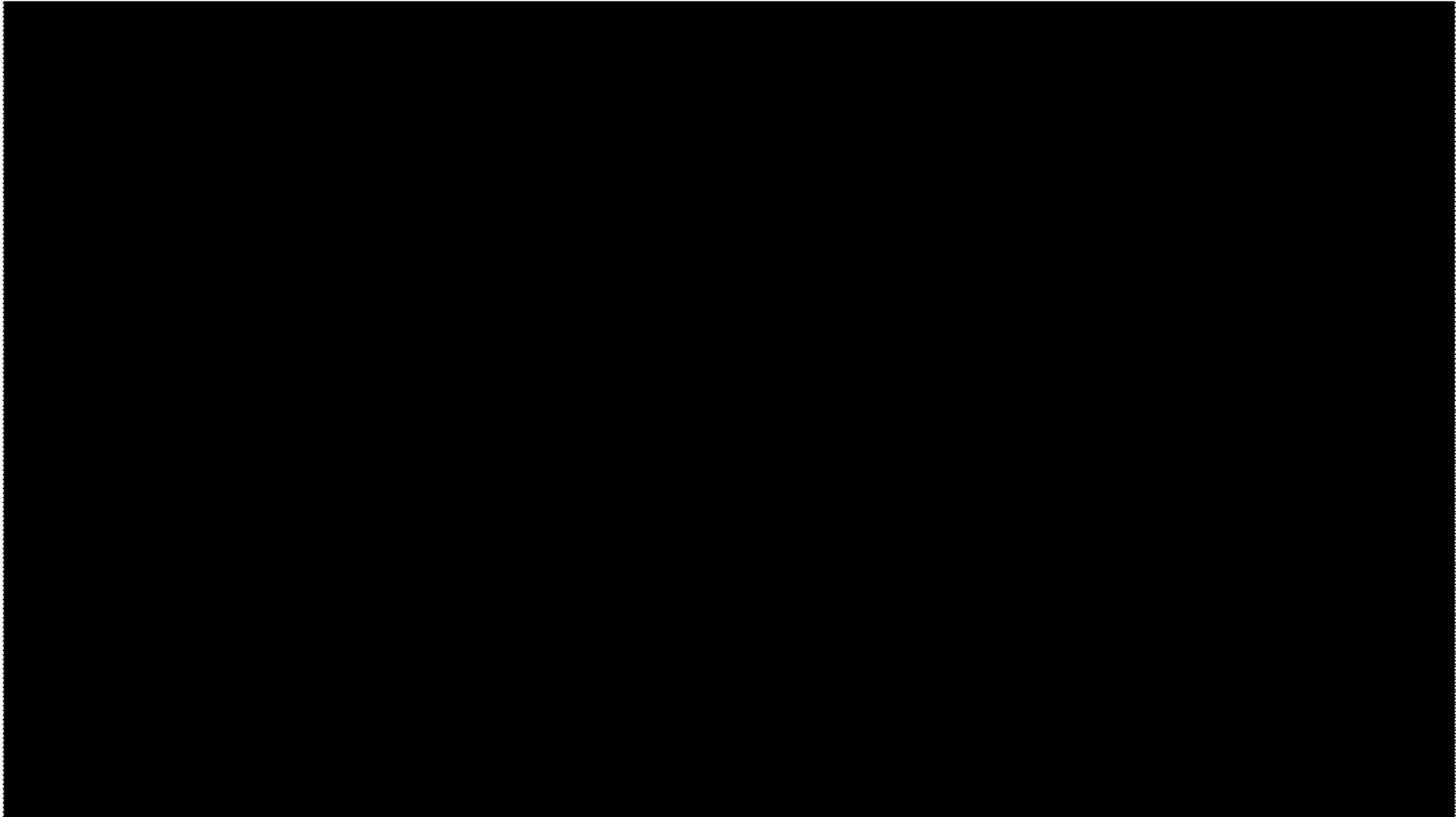


Design Progression

- Lakeshore Road Access
- Refined design with MassDOT and other design firms
- Mitigated right-of-way impacts
- Reevaluated post-COVID traffic patterns
- Extensive utility and geotechnical investigations



Project Overview





**How will your
property be
impacted?**

Preliminary Right of Way (ROW) discussion 25% Design Public Hearing

- MassDOT is responsible for acquiring all necessary rights in public land for design, construction, and implementation of this project.
 - Fee takings, permanent easements and/or temporary construction easements may be required.
- Affected property owners have been or will be contacted by personnel from the MassDOT ROW Bureau or consultants representing the responsible agency.
 - Property owners are protected under Massachusetts General Laws, primarily Chapter 79.
- Preliminary ROW drawings will be available upon request for public review and comment.



**What are the
environmental,
cultural
resource, and
community
impacts?**

Environmental Impacts

- MassDOT continues to coordinate with the MEPA Office to determine reviews that may be required.
- No work within or alteration of jurisdictional wetland resource areas.
- Stormwater and runoff management during construction.
- Installation of construction phase erosion and sedimentation control measures.
- Installation of post-construction stormwater control measures.



**What is the
construction
approach?**

Temporary Traffic Measures

- The bridges will be built offline to minimize impacts to existing traffic
- Design-Build contractor will present intended traffic management plan to the public before construction



Construction Impacts

- Access to be maintained during Construction:
 - Existing pedestrian facilities
 - Businesses
 - Lakeshore Road
 - Existing traffic during peak travel times
- Temporary traffic measures:
 - Pedestrian detours
 - Nighttime rolling roadblocks or lane closures on Route 9
 - No planned road closure on Route 27.



Project Delivery: Design-Build Procurement

- Design-Build combines design and construction services into a single contract
 - Authorized for Department use under MGL 149A, subsection 14 - 21
- Allows the contractor and designer to work together on all phases of the project
 - Promotes innovation
 - Expedites project delivery and completion
- Best Value Design-Build (BVDB) procurement
 - Project awarded based on the highest overall value considering both quality and cost
 - Phase I – short-list best qualified teams as determined by response to Request for Qualifications (RFQ)
 - Phase II – submission of technical and price proposals in response to Request for Proposals (RFP)
 - During Phase II, Alternative Technical Concept process is utilized to allow the incorporation of innovation and flexibility into the Technical Proposals. RFP will include performance specification requirements for the Base Technical Concept (BTC), wherein the proposers can propose an ATC which meets or exceeds these requirements.

Our next steps



Summer 2023

Finalize 25% plan and special provision documents for Design-Build procurement



Fall 2023

Request for Qualifications issued to bidders.



March 2024

Request for Proposals issued to bidders.
Project Advertisement



Summer/Fall 2024

Notice to Proceed Issued to selected MassDOT Contractor



Fall 2024

Public Outreach Meeting



**How will we
keep you
informed?**

How to reach us

- Visit the project website at:

<https://www.mass.gov/info-details/design-development-route-27-over-route-9-interchange-improvements-natick>

or use the QR Code:



- For project information visit the MassDOT Upcoming Events for Highway Division website at:

<http://www.mass.gov/orgs/highway-division/events> or use the QR Code:



- Submit email comments to:

MassdotMajorProjects@dot.state.ma.us

- Submit written comments to:

Carrie Lavallee, P.E., Chief Engineer

MassDOT

10 Park Plaza

Boston, MA 02116

Attention: Major Projects, PROJECT FILE NO. 605313



Questions and answers

Questions and answers



- “Raise your hand” to be unmuted for verbal questions (Alt + Y if using a phone)



- 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.



Thank You

Bridge Replacement & Interchange Improvements at Route 27 over Route 9

Virtual Meeting | Thursday, June 15, 2023 | 7:00 PM

Project File No: 605313

