



## Intersection Improvements at Montgomery Street, Granby Road, And McKinstry Avenue

### *25% Design Public Hearing*

Virtual Meeting - Zoom | March 2, 2022 | 6:30 PM – 8:00 PM

Project No.609061





# Zoom controls



- Drop down menu to check microphone and speakers



- Ask a question and share comments



- Raise your hand



- If you are unable to access the internet or are having technical problems, please call into the meeting at 1-646-876-9923, Webinar ID: 893 3606 4752



If you have trouble with the meeting technology during the presentation, please call:

1-888-799-9666

Closed captioning automatically generated by Zoom



Unmute



Start Video



Q&A



Raise Hand

Leave



# Public meeting notes and procedures

## Notification of Record Retention

- The Massachusetts Department of Transportation may choose to retain and distribute the still images, Q&A, attendees and/or chat transcript.
- By continuing attendance with this virtual public meeting, you are consenting to participate in public record retention
- All chat & Q&A transcript will be considered a public record.

## Important notes

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

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



# Introductions

- **Municipality – City of Chicopee** – Douglas Ellis, City Engineer
- **Municipality – City of Chicopee** – Elizabeth F. Batista – DPW Superintendent
- **MassDOT Highway Division** - Responsible for administering the Design Process and providing Resident Engineer Services
- **MassDOT Project Manager** – Jonathan Freeman
- **MassDOT ROW Bureau** – Angela Steinman (State ROW)  
Nikki Peters (Community Compliance)
- **MassDOT District - 2** – Laura Hanson (District Projects Engineer)  
Thomas Ruta (Assistant District Projects Engineer)
- **MassDOT Producers** – Courtney Sulerud & Joseph Yoo
- **Design Consultant** – VHB – Van Kacoyannakis
- **Stenographer** - Greg Tarbox



# Public Hearing – Advertisement & Outreach

- **Newspaper Advertisements**

This Design Public Hearing was advertised in two local newspapers:

- ***The Republican*** on February 16, 2022, and February 23, 2022
- ***Chicopee Register*** on February 18, 2022, and February 25, 2022

- **Coordination with the City of Chicopee**

City officials were involved in the process of design public hearing.

- **Social Media**

MassDOT Twitter - Advertisements for this hearing were posted on the official MassDOT Twitter account.

City of Chicopee – Mayor’s Facebook Page

City of Chicopee – Police Facebook Page

City of Chicopee – City Website



# Agenda

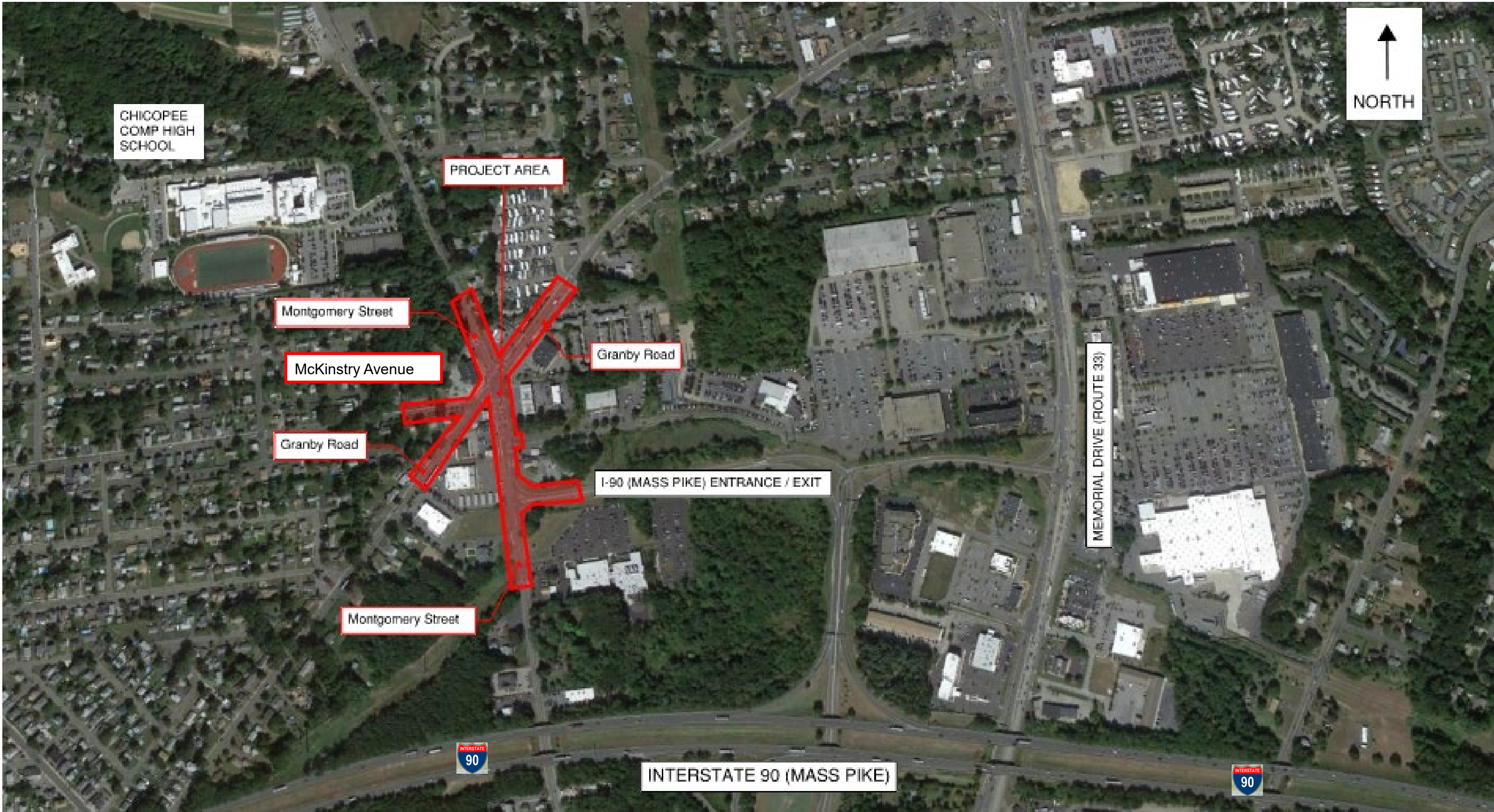
- Project Area
- Existing Conditions
- Project Goals
- Proposed Improvements
- Right of Way Discussion
- Environmental Permitting
- Construction Impacts
- Project Schedule
- Contact Information
- Questions & Answers





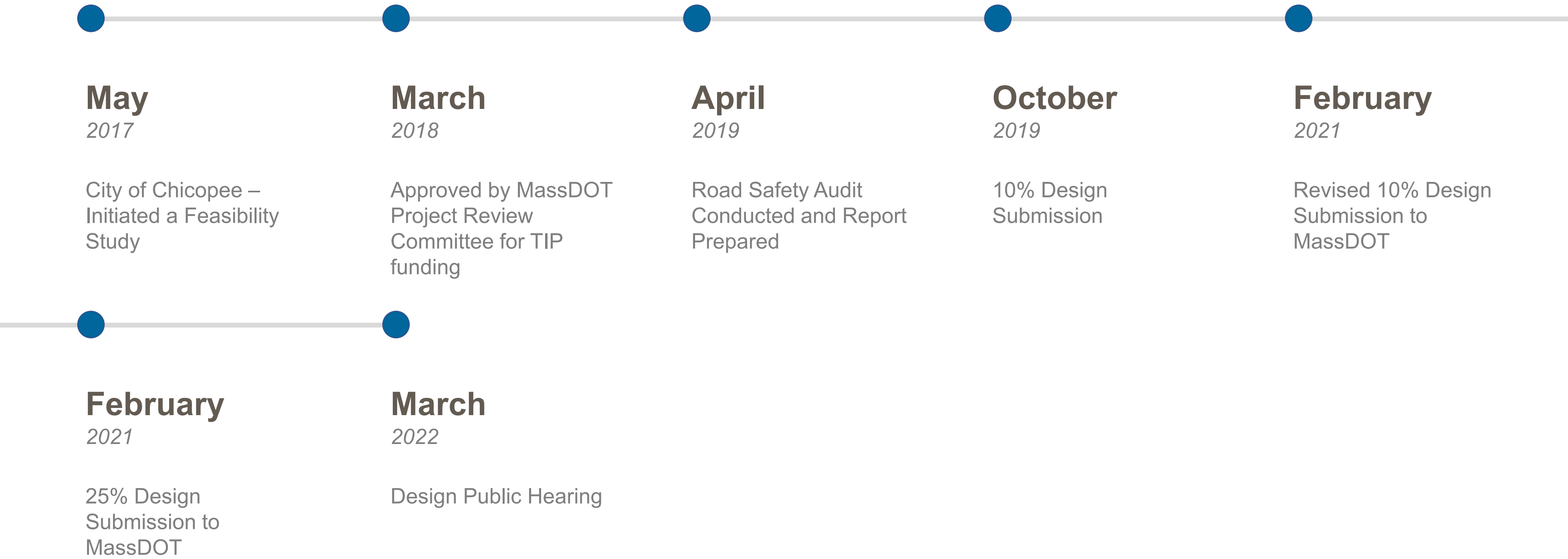
Project Area

Montgomery Street, Granby Road, and McKinstry Avenue





# How did we get here?







**Why was this  
project  
initiated?**



# Existing Conditions

Traffic Congestion

Crosswalks and sidewalk not ADA compliant

Safety –Needed Pedestrian / Bike Accommodations







**What do we  
want to  
accomplish?**



# Project Need and Purpose

- Reduced congestion
- Improved safety for all modes of transportation
- Mobility improvements for pedestrians & bicyclists
- Access Management
- Pavement rehabilitation





# Safety Improvements

- Replace traffic signals and unsignalized intersection with Roundabouts
- Prohibition of left turns to/from Shopping Center driveway
- Pedestrians and Bicyclists full access within project limits.







**What  
alternatives  
were  
considered?**



# Alternative Considerations

- How to address the challenges at hand
  - Safety
  - Congestion
  - Lack of pedestrian and bicycle facilities
  - Right-of-way
  - Numerous driveways
  - Antiquated signal equipment
- Numerous layouts were vetted



# Types of Roundabouts

## Single Lane Roundabout

- I-90 Entrance / Exit at Montgomery Street (23,711 vehicles/day)
- McKinstry Avenue at Granby Road (24,925 vehicles/day)

## Mixed Lane Roundabout

- Granby Road at Montgomery Street (38,061 vehicles/day)

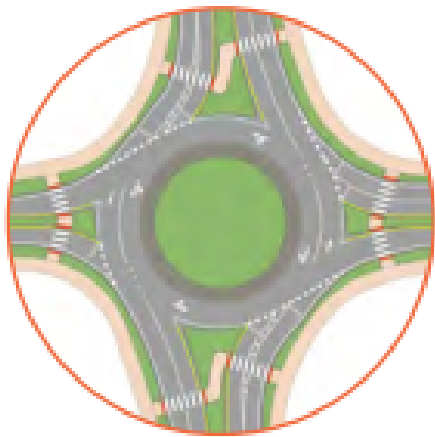
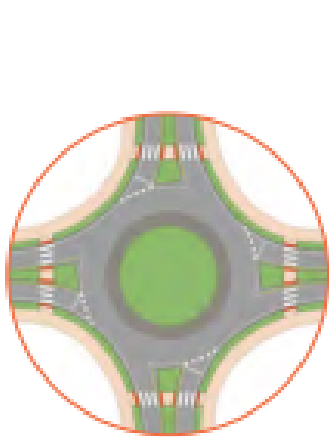




TABLE 1-1: TYPES OF ROUNDABOUTS

DESIGN ELEMENT	SINGLE-LANE ROUNDABOUT	MIXED LANES ROUNDABOUT
Maximum number of circulating lanes	1	2*
Typical inscribed circle diameter	90 to 150 feet	120 to 180 feet
Central island treatment	Raised with traversable truck apron	Raised with traversable truck apron
Typical daily service volumes on four-leg roundabout	Up to approximately 25,000	Up to approximately 35,000 for a two-lane road intersecting a four-lane road
Desirable entry speed range		

\* Roundabouts can be configured with more than two circulating lane based on detailed traffic analysis approved by MassDOT.

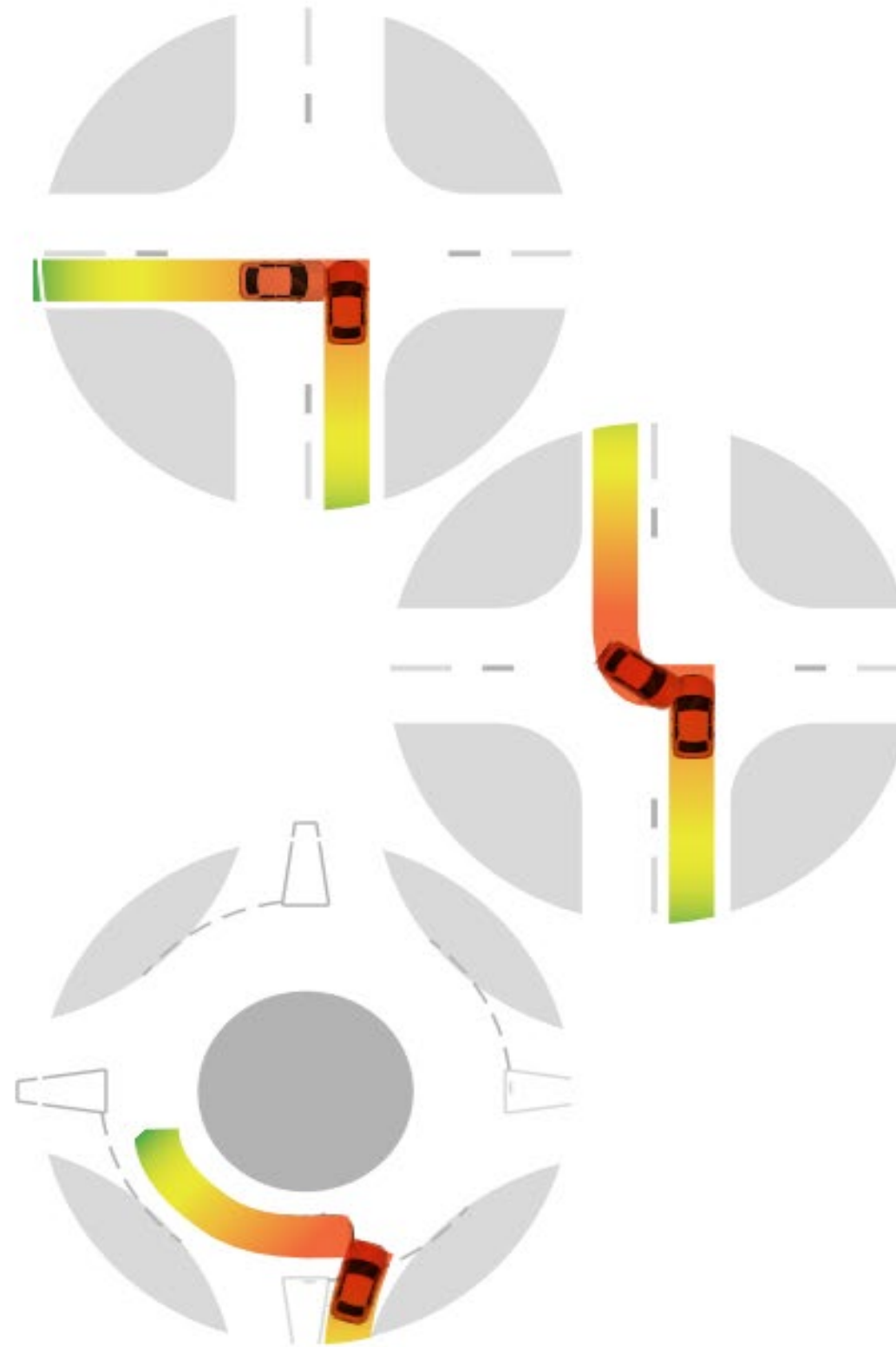


# Roundabout Safety

- Reduced vehicle speeds
- Promote traffic calming
- Minimize conflict points
- Reduce crash severity

**FIGURE 1-4: PRIMARY CRASH TYPE ALTERATION AT ROUNDABOUTS**

*Courtesy of Kittelson & Associates, Inc.*

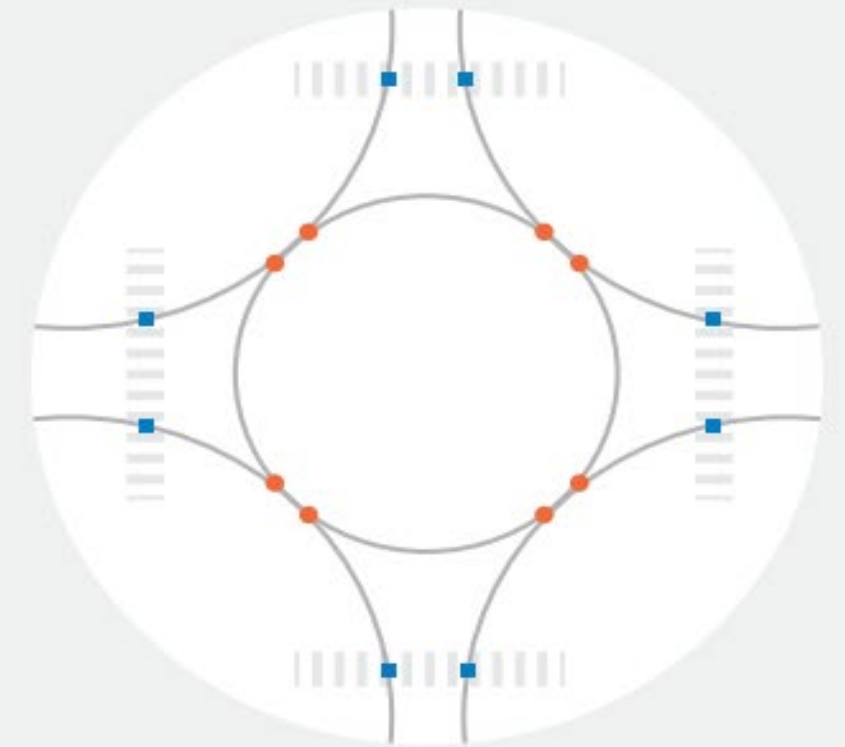


**FIGURE 1-5: POTENTIAL CONFLICT POINTS WITHIN AN INTERSECTION**

**SINGLE-LANE ROUNDABOUT**

● 8 Vehicle-to-Vehicle Conflict Points

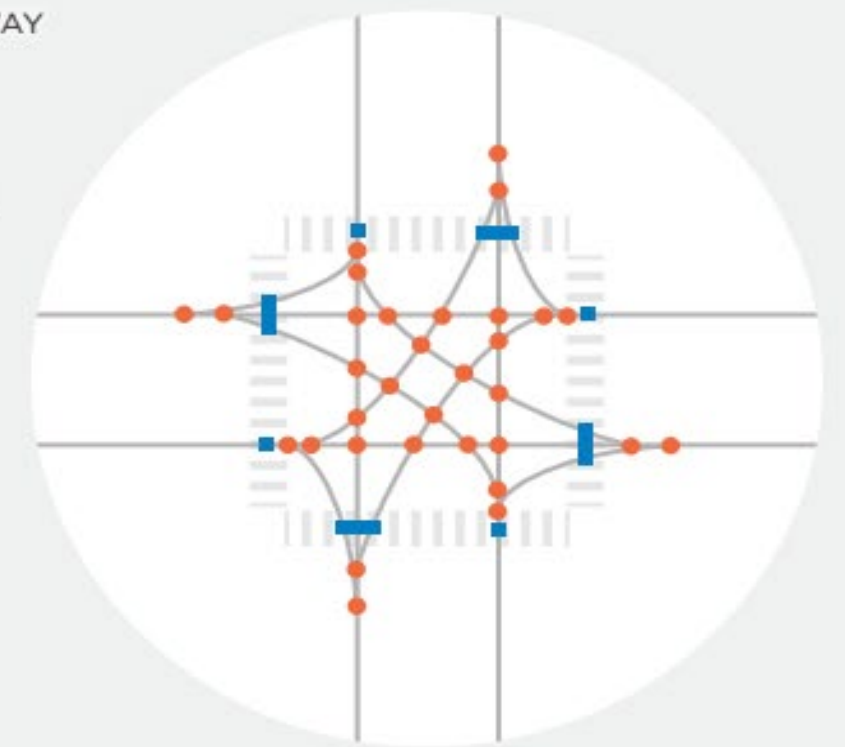
■ 8 Vehicle-to-Pedestrian Conflict Points



**TRADITIONAL FOUR-WAY INTERSECTION**

● 32 Vehicle-to-Vehicle Conflict Points

■ 16 Vehicle-to-Pedestrian Conflict Points



MASSDOT GUIDELINES FOR THE PLANNING AND DESIGN OF ROUNDABOUTS



# Roundabout Safety

Minor road STOP-control to Modern Roundabout  
(Montgomery Street at Mass Pike Ramps)

Multi-Vehicle Crashes only

***All Severities - 52% reduction***

***Fatal and Injury Crashes - 84% reduction***

Signalized Intersection to Modern Roundabout (Montgomery  
Street/McKinstry Avenue/Granby Road)

All Crashes

***All Severities - 20.8% reduction***

***Fatal and Injury Crashes - 65.8% reduction***

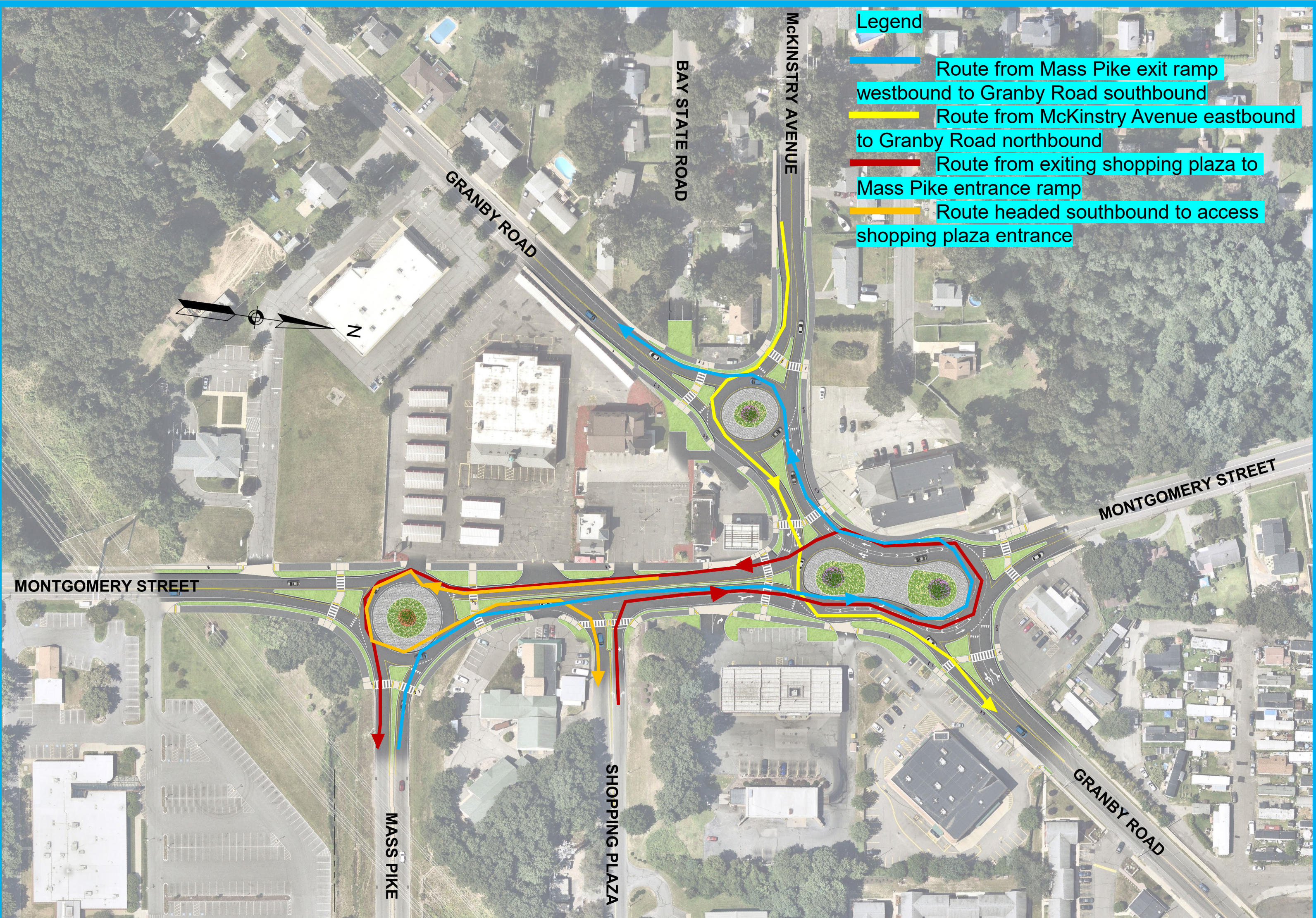
<https://safety.fhwa.dot.gov/intersection/roundabouts/> - for more information on Roundabout click this link





**What is the  
preferred  
alternative?**





# Project Overview



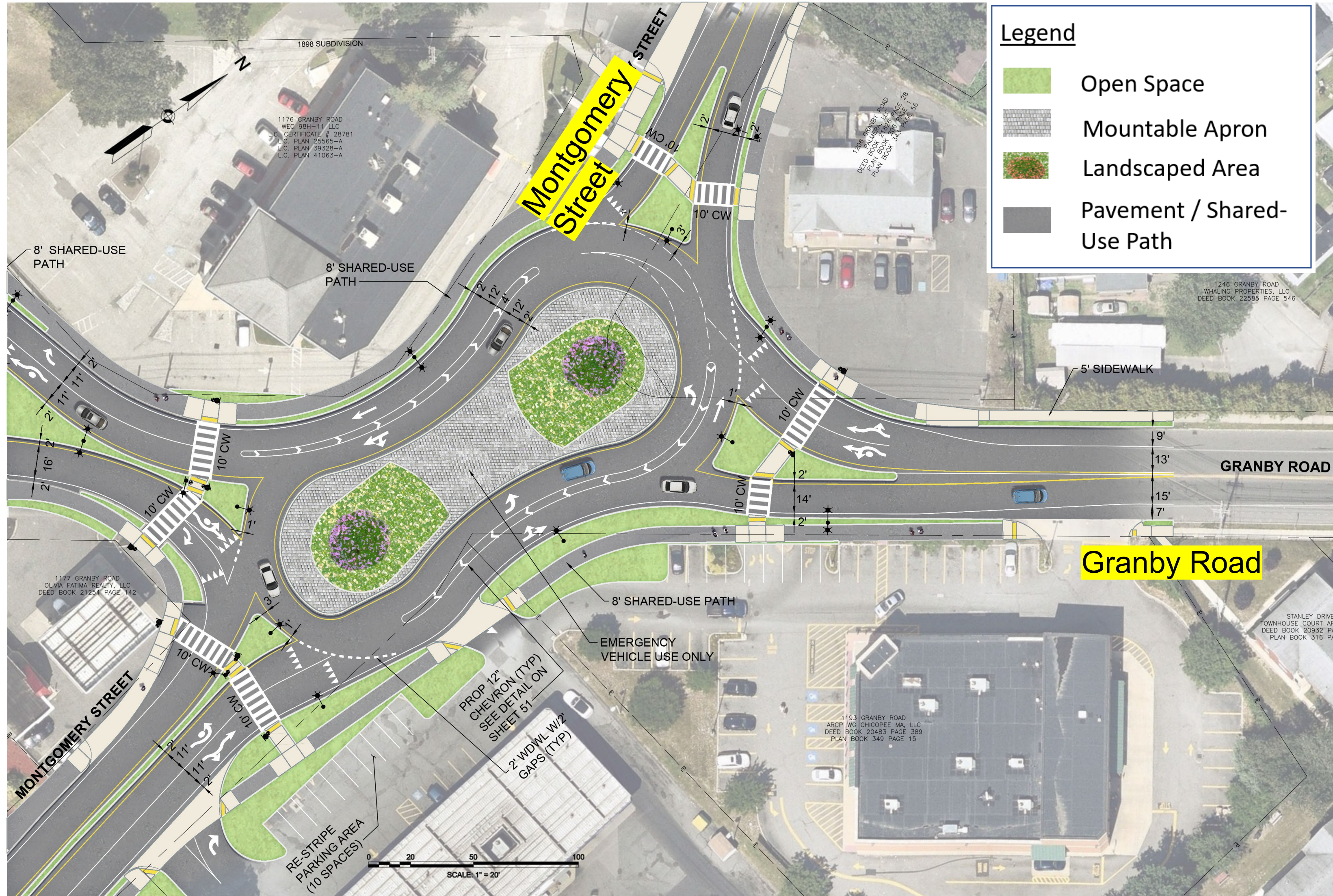


How has our  
design  
progressed?



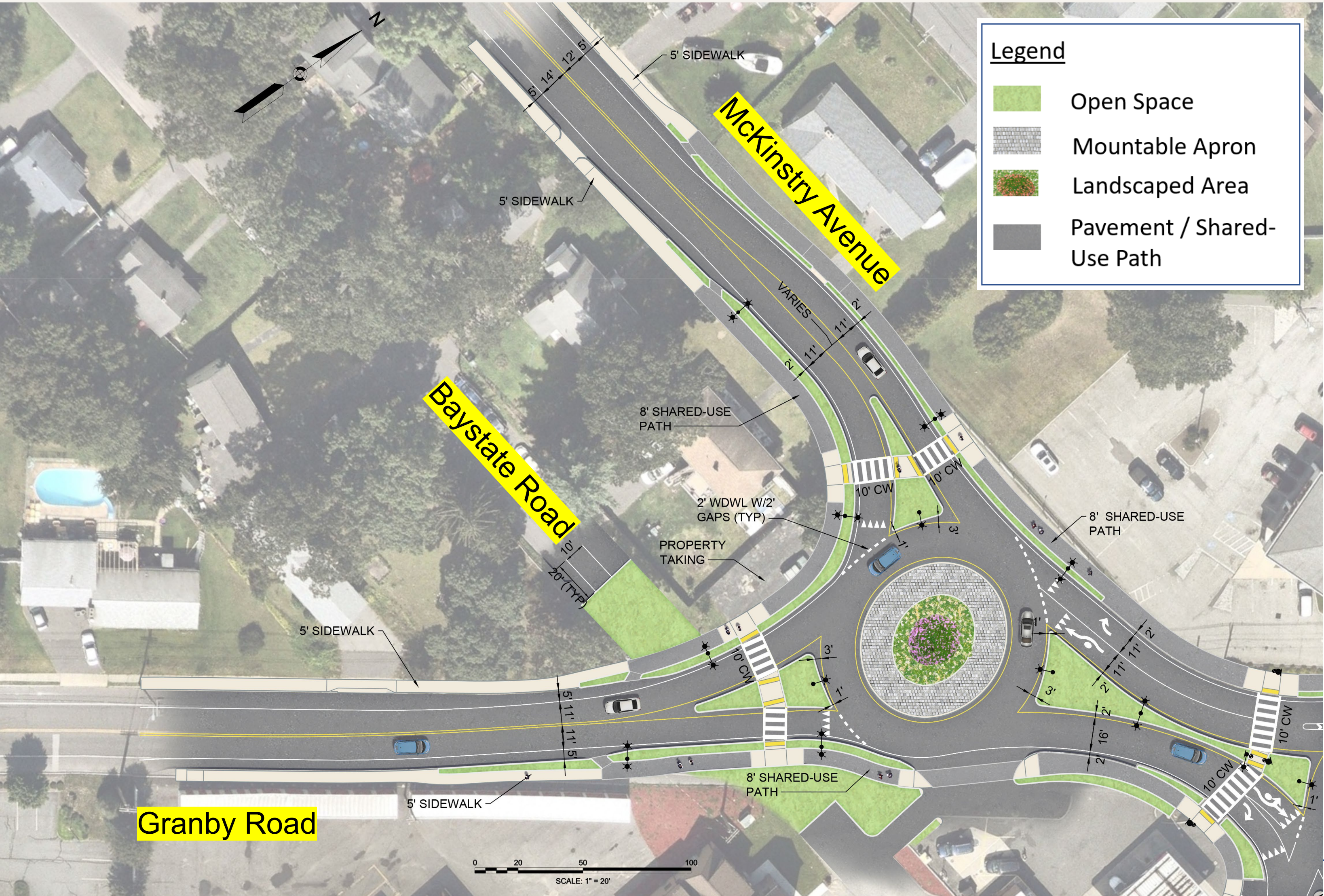






# Montgomery Street at Granby Road and McKinstry Avenue

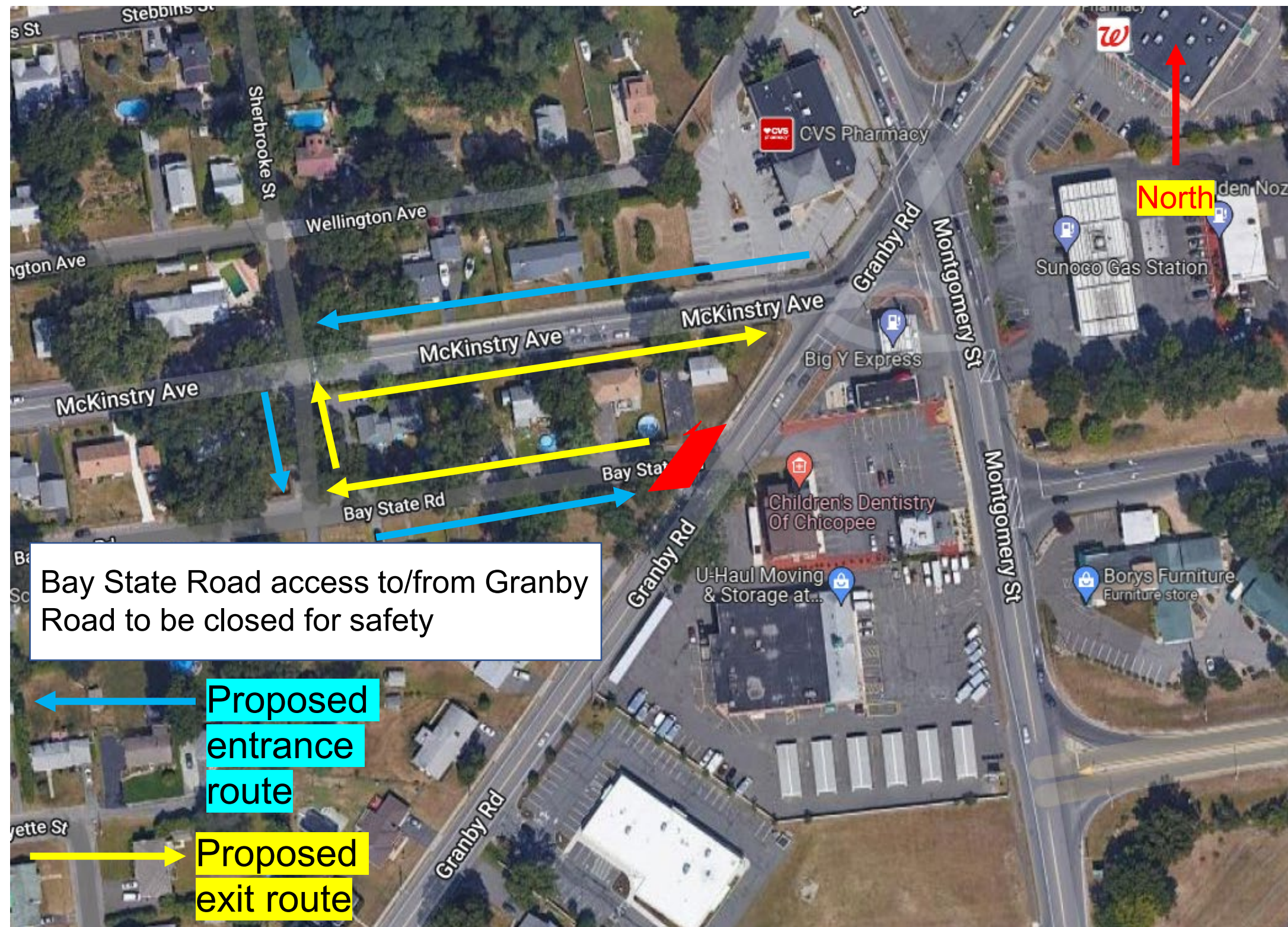




# Granby Road at McKinstry Avenue



# Baystate Road Closure



Source: Google Maps, 02/25/2022

- No Cut-Thru Traffic
- Protected Access and Circulation
- Multiple access points from McKinstry Avenue



Table 3-1: Intersection Capacity Analysis Summary (2020 Existing / 2030 Future)

Weekday Evening	2020 Volumes / Existing Geometry "Existing Conditions"				2030 Future Traffic Volumes / Existing Geometry "No-Build"				2030 Future Volumes / Future Geometry "with Improvements"			
	Delay <sup>b</sup>	LOS <sup>c</sup>	Avg. Queue	Max. Queue	Delay	LOS	Avg. Queue	Max. Queue	Delay	LOS	Avg. Queue	Max. Queue
Montgomery Street, Granby Road, and McKinstry Avenue												
Granby Rd EB LT	45.1	D	68	318	47.9	D	73	352	110.7	F	402	852
Granby Rd EB R	45.1	D	77	334	47.9	D	82	368	110.7	F	402	852
McKinstry Ave LTR	66.8	E	158	534	80.1	F	190	628	132.4	F	464	857
Granby Rd WB LT	77.8	E	356	1,083	80.4	F	435	1,260	31.4	C	145	559
Granby Rd WB R	77.8	E	356	1,083	80.4	F	435	1,260	31.4	C	145	559
Montgomery St NB L	101.9	F	517	920	108.7	F	546	1,114	38.1	D	200	640
Montgomery St NB T	101.9	F	517	920	108.7	F	546	1,114	38.1	D	200	640
Montgomery St NB R	101.9	F	517	920	108.7	F	546	1,114	38.1	D	200	640
Montgomery St SB LT	56.9	E	111	547	73.1	E	139	765	48.7	D	211	494
Montgomery St SB R	56.9	E	111	547	73.1	E	306	765	48.7	D	211	494
Overall	73.0	E	-	-	80.2	F	-	-	67.3	E	-	-
Montgomery Street and Shopping Plaza driveway												
Boston Pizza EB L	49.6	E	3	56	51.7	F	3	55	-	-	-	-
Boston Pizza EB T	46.8	E	3	55	43.0	E	3	54	-	-	-	-
Boston Pizza EB R	15.7	C	2	53	17.7	C	2	52	14.7	B	1	56
Shopping Plaza WB L	76.5	F	16	124	177.4	F	35	236	-	-	-	-
Shopping Plaza WB R	140.1	F	143	477	264.3	F	310	725	2.3	A	1	72
Montgomery St NB L	23.2	C	192	585	32.8	D	221	779	-	-	-	-
Montgomery St NB T	40.2	E	176	585	47.4	E	200	779	-	-	-	-
Montgomery St NB R	46.3	E	180	585	52.7	F	205	779	-	-	-	-
Montgomery St SB L	10.3	B	23	186	12.5	B	30	195	-	-	-	-
Montgomery St SB T	2.0	A	14	156	2.8	A	20	166	-	-	-	-
Overall	36.3	E	-	-	54.7	F	-	-	3.3	A	-	-
Montgomery Street and I-90												
I-90 WB L	265.7	F	840	1,555	565.5	F	1,496	1,692	123.8	F	421	1,148
I-90 WB R	268.6	F	868	1,528	566.8	F	1,483	1,665	111.5	F	421	1,149
Montgomery St NB T	11.8	B	14	305	21.7	C	39	499	263.4	F	1013	1,115
Montgomery St NB R	3.9	A	1	67	8.5	A	2	91	259.7	F	1014	1,116
Montgomery St SB U <sup>a</sup>	-	-	-	-	-	-	-	-	7.8	A	31	556
Montgomery St SB L	7.8	A	20	307	9.8	A	28	311	5.8	A	31	556
Montgomery St SB T	6.5	A	16	284	7.9	A	23	288	6.3	A	31	556
Overall	81.5	F	-	-	146.0	F	-	-	99.8	F	-	-

Source: VHB Vissim  
a movement does not exist under existing geometry  
b vehicle delay in seconds per vehicle  
c level of service (LOS)  
Avg. Average queue, measured in feet.  
Max. Maximum queue, measured in feet.  
EB = Eastbound; WB = Westbound; NB = Northbound; SB = Southbound; L = Left; T = Through; R = Right; U-U-turn

# Results

- 2030 Future Condition improvement over the no-build condition
- Reduce crash severity and vehicle speeds
- Promotes traffic calming
- Pedestrian and Bicycle accommodations throughout project area



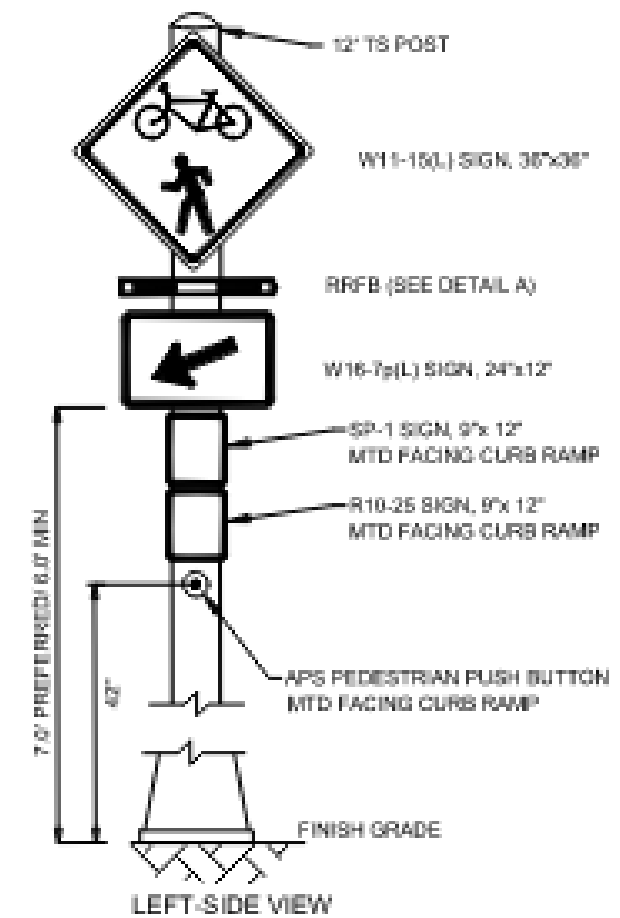
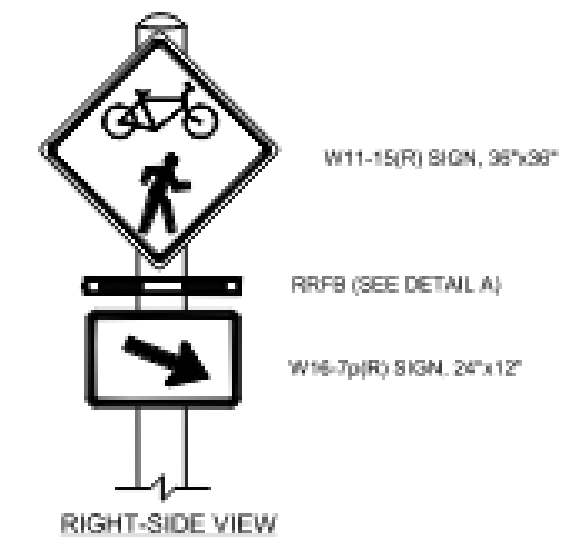
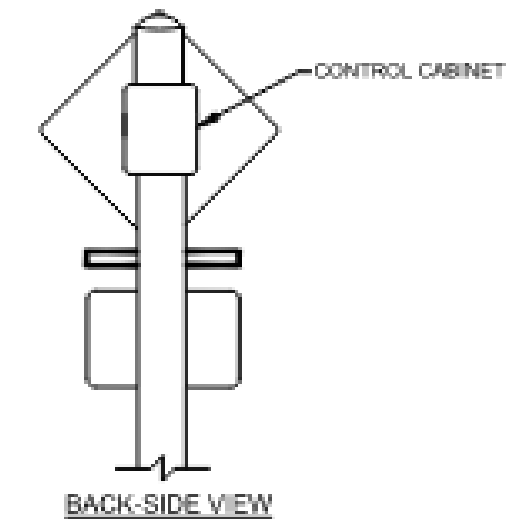
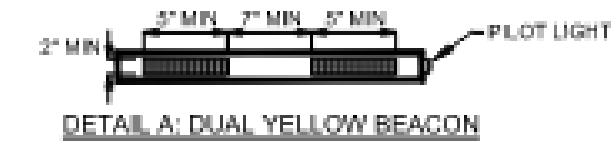
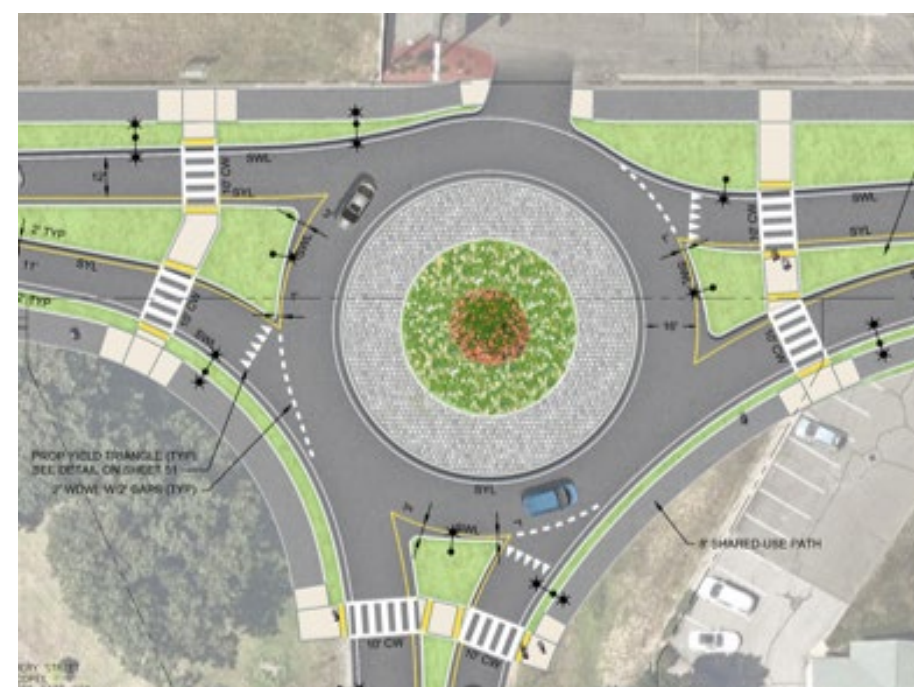


**How will  
bicyclists and  
pedestrians  
be impacted?**



# Bicycle and Pedestrian Improvements

- ADA Pedestrian curb ramps provided throughout project
- Rectangular rapid flashing beacons at all crossings
- New sidewalks at locations where shared-use paths shift to in-road bike lanes
- Highly visible crosswalks
- Proposed 8' – 10' Shared-use paths along both sides of roadways



## NOTES:

1. DURATION OF FLASHING UPON RECEIPT OF VALID PEDESTRIAN PUSHBUTTON ACTUATION SHALL BE INITIALLY SET FOR 10 SECONDS.
2. SEE SPECIAL PROVISIONS ITEMS 824.211-824.213 FOR MORE DETAILS.

## RECTANGULAR RAPID FLASHING BEACON (AC POWER)

SCALE: NTS





**How will your  
property be  
impacted?**



# Right of Way (ROW) discussion – 25% Design

- Responsible for acquiring all necessary rights in public land for design, construction, and implementation of a project.
- MassDOT is responsible for acquiring any necessary rights adjacent to the Interstate 90 Entrance / Exit
- City is responsible for acquiring any necessary rights adjacent to City layout, including along Montgomery Street, Granby Road, and McKinstry Avenue



## Right of Way (ROW) discussion – 25% Design

- Affected property owners will be contacted by personnel from the ROW Bureau or consultants representing MassDOT and/or the City.
- Procedures must comply with state and federal regulations governing the acquisition process.
- Property owners are protected under Massachusetts General Laws, primarily Chapter 79.
- If project receives federal funds, property owners are further protected under Title III of the Real Property Act of 1970, as amended.
- Fee takings, permanent easements, and/or temporary construction easements may be required.
- Plans will be available on the City's Engineering Web page.  
<https://www.chicopeema.gov/922/Roundabout-Project>





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



# Environmental Permitting

- Massachusetts  
Environmental Policy Act  
(MEPA) /National  
Environmental Policy Act  
(NEPA)
- Section 106
- Notice Of Intent (NOI)  
Submission from Chicopee  
Conservation Commission







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



## Proposed construction approach

- Access to businesses and residences will be always maintained
- Short-duration road closures and detours are anticipated (paving operations, pavement marking application)
- Minor lane closures during workday non-peak hours
- Night work is not anticipated and will require approval by the City and MassDOT
- Variable Message Boards will be placed 14 days prior to construction
- Police details for all roadway work





# Our next steps



Review and respond to comments received from this meeting



- Continue with design development
- 75% Design Submittal
  - 100% Design Submittal
  - PS&E Submittal



ROW coordination



Advertise project for construction in 2026



Construction anticipated to start in 2026





**How will we  
keep you  
informed?**



# Contact Information

- **Submit Comments or Inquiries via E-Mail:**

[dot.feedback.highway@state.ma.us](mailto:dot.feedback.highway@state.ma.us)

Subject: MassDOT Project File No. 609061 Chicopee

- **Submit Comments via Mail:**

Carrie Lavallee, P.E.  
Chief Engineer MassDOT  
10 Park Plaza  
Boston, MA 02116

Att. Roadway Project Management Project File No. 609061

(Must postmark mailed comments within 10 business days of webinar publish date for inclusion in public hearing transcript, by March 16, 2022)







# Questions and discussion



# Questions and answers



- “Raise your hand” to be unmuted for verbal questions



- 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

*Intersection Improvements at Montgomery Street, Granby Road, And McKinstry Avenue*

Zoom | March 2, 2022| 6:30 PM – 8:00 PM

Project No.609061

MassDOT Project Manager: Jonathan Freeman, EIT  
[Jonathan.e.freeman@dot.state.ma.us](mailto:Jonathan.e.freeman@dot.state.ma.us)





# Right of Way (ROW) discussion – 25% Design

- Responsible for acquiring all necessary rights in public land for design, construction, and implementation of a project.
- MassDOT is responsible for acquiring any necessary rights adjacent to the Interstate 90 Entrance / Exit
- City is responsible for acquiring any necessary rights adjacent to City layout, including along Montgomery Street, Granby Road, and McKinstry Avenue

