

MASSAVE4 IMPROVEMENTS Harvard Square



Community Meeting
October 2022



Purpose of Video

- This video will share:
 - Project background and history.
 - Existing conditions and design considerations for all users.
 - The draft concept for Mass Ave between Harvard Street and Garden Street.
 - How to provide feedback to the project team.
 - Next Steps.



What drives our street design?

Many policies and plans are foundational to our work:

Cycling Safety Ordinance, Vehicle Trip Reduction Ordinance,
 Cambridge Growth Policy, Complete Streets Policy, Vision Zero Policy,
 Climate Protection Plan and others.

We design for people of ALL ages and abilities. This means including:

- People who many not have access to a car.
- Safe and accessible bike lanes that can be used by a wide range of people.
- Streets that are safe and accessible for all abilities.

Focus is on moving people and goods, not their vehicles:

- Buses run less frequently than cars and carry more people.
- Cannot ignore access for trucks and local deliveries.

How we think about vehicle congestion and delay:

- Moving people slowly is moving people safely.
- We do not prioritize eliminating delay for people driving alone.

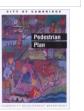










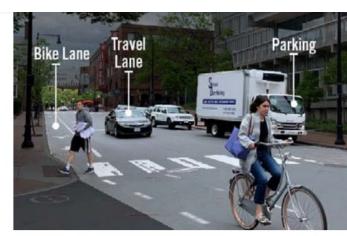






Why Separated Bike Lanes?

- Fewer crashes.
- Eliminates threat of "dooring" from parked vehicles.
- Buffer space reduces conflicts between turning vehicles and people biking.
- Shorter crossing distances for people walking.
- Increased comfort for people biking of all ages and abilities.
- Increased comfort for people driving as they know where to expect people biking.
- Enables more people to choose cycling as a transportation option.
- Supports City's climate goals.





Top Image: Mt Auburn St before a separated bike lane was installed Bottom Image: Mt Auburn St after a separated bike lane was installed in 2020



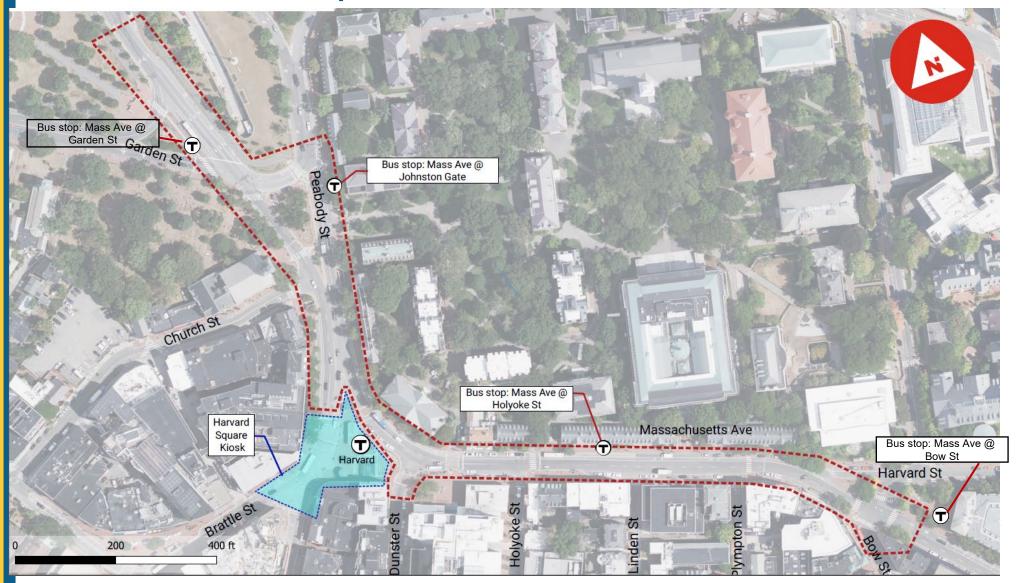
MassAve4 Cycling Safety Ordinance Project

- The City's Cycling Safety Ordinance identified four segments of Mass Ave where installing separated bike lanes would be challenging due to unique complicating factors.
- The four segments are collectively referred to as the MassAve4 Project:
 - (A) Dudley Street to Beech Street.
 - (B) Roseland Street to Waterhouse Street.
 - (C) Church Street to Garden Street.
 - (D) Plympton Street to Dunster Street.

This presentation is an update on Segments C and D in Harvard Square.



Harvard Square Area





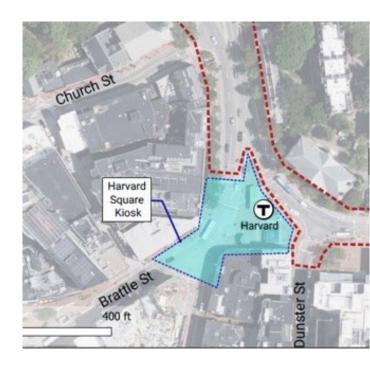
Out of Town News Kiosk and Plaza Reconstruction Project Updates

Out of Town News Kiosk:

- The City awarded a contract to Wes Construction in April 2021.
- Due to supply chain issues and unforeseen conditions, the contract end date has been extended by four months.
- The estimated completion date is now February 2023.

• Plaza Reconstruction:

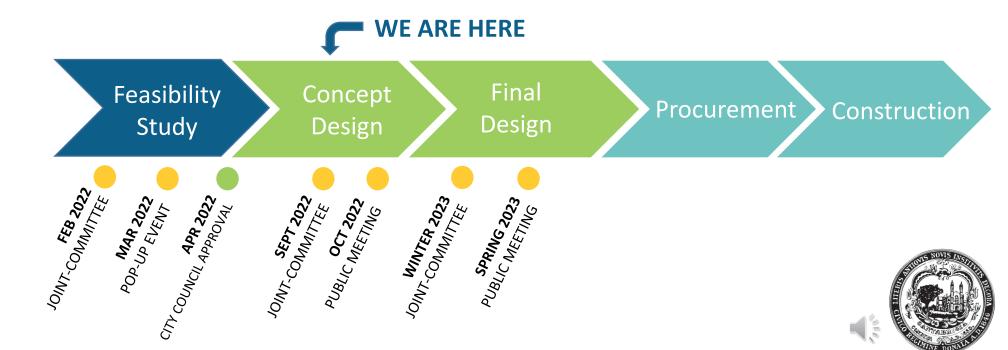
- The City awarded a contract to Newport Construction in April 2022.
- Construction estimated to commence late Fall 2022.
- Estimated completion is Summer 2024.





How did we get here?

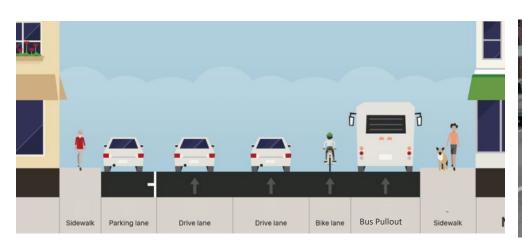
- The City's Cycling Safety Ordinance requires separated bike lanes on Mass Ave.
- The City released the MassAve4 Impact Analysis report in April 2021.
- Additional analysis to review quick-build vs construction implementation was completed and presented to the public in March 2022.
- Full construction of Segments C and D in Harvard Square was recommended. The approach was approved by the City Council in April 2022.
- The project limits have expanded to include the connecting segments.



Existing Conditions



Plympton to Dunster – Existing





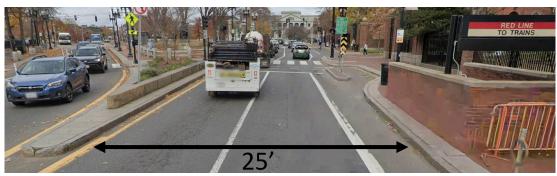




Church to Garden – Existing



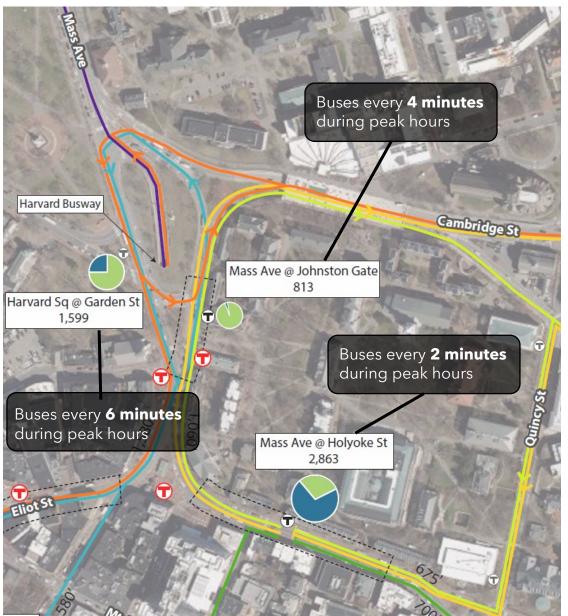








Existing Bus Routing



Stop Name Total Weekday Ridership Ons

- Mass4 Segment Bus Stop
- Other Bus Stop
- Harvard Station
 Red Line Head House

MBTA Bus Route



Design Considerations



Design Considerations

Safe for people who...



- Separated bicycle lanes.
- Pedestrian and driver interactions.



Take a bus

- Bus stops.
- Bus operations.



Take a train

• Connections to the Red Line.



Walk

Accessibility and connectivity.



Drive

- Curb use.
- Parking.
- Pick-up/drop off.



So

Ride a bike

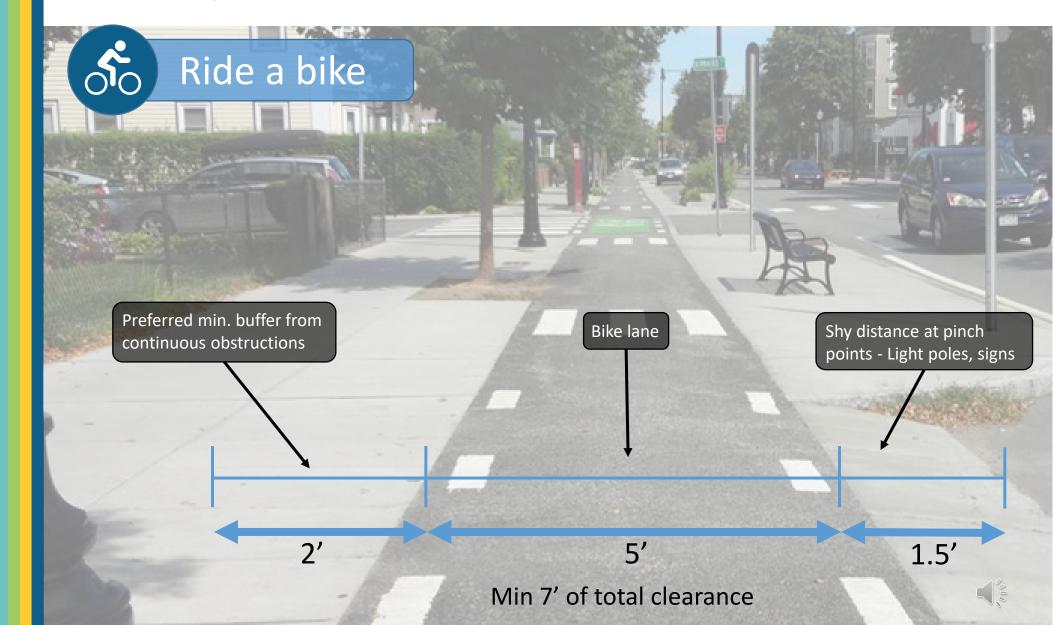


- Helps manage pedestrian/cyclist interactions along a facility where space for physical separation is limited.
- Less likely to conflict with underground utilities.

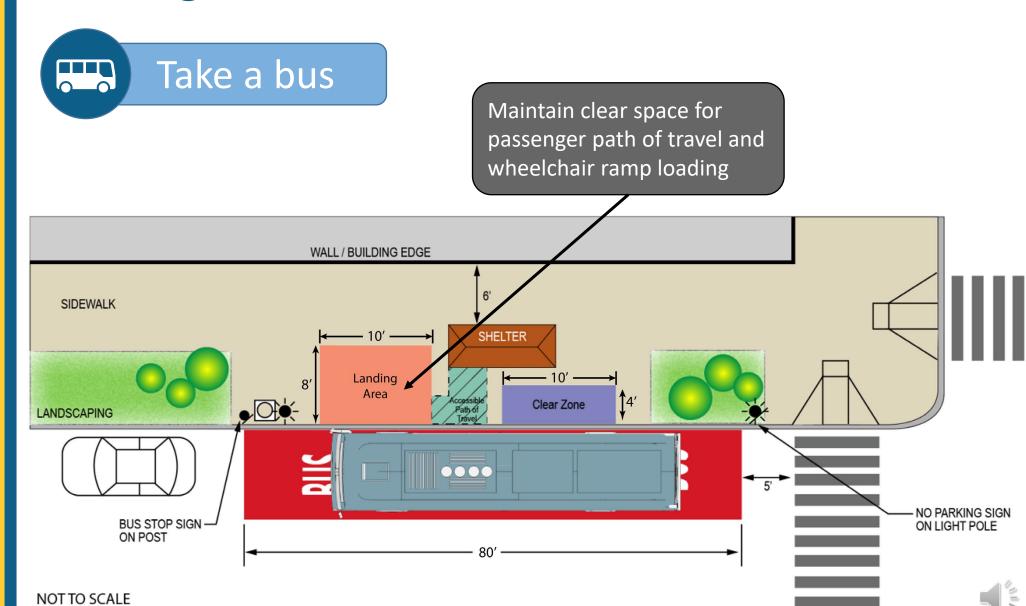


- Furnishing zones used to create clear separation between operating spaces.
- Helps facilitate access to curbside passenger loading across a bike lane (bus stops, cab stands, etc).











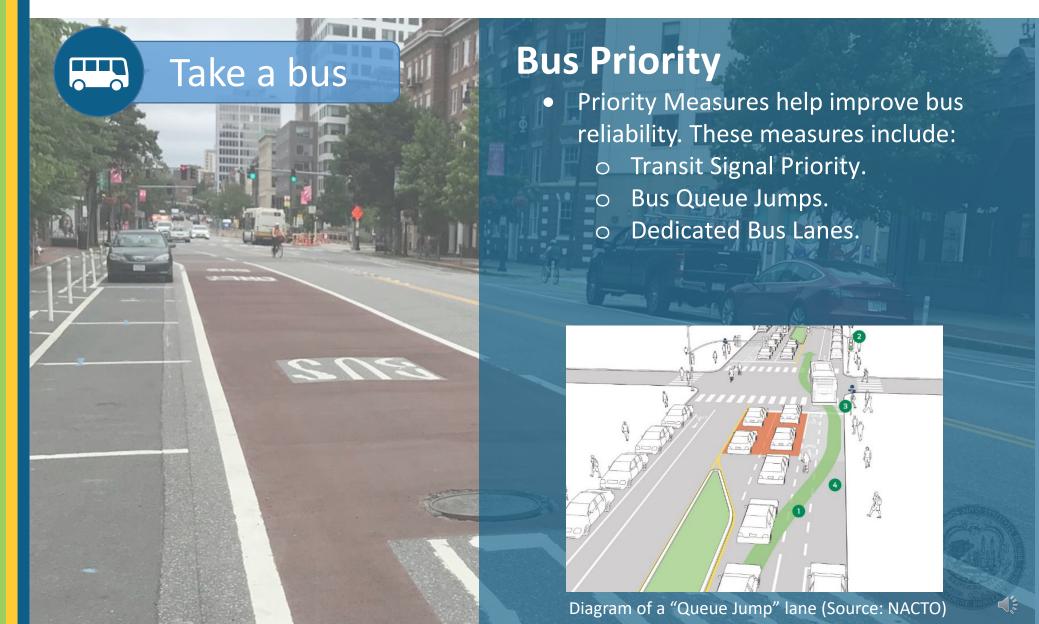


Bus Operations

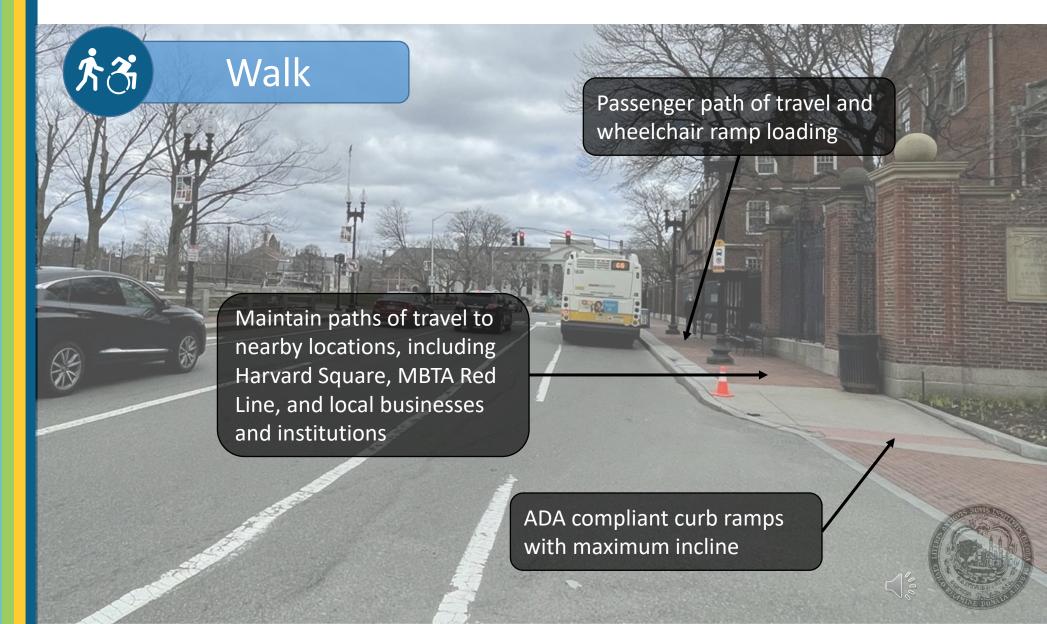
- During peak service, there is one bus every two minutes.
- Some bus routes must "layover", or wait between their last stop and first stop to align schedules.
- Minimum bus stop lengths allow buses to pull in and out of bus stop as needed.

Further coordination with MBTA is needed to determine layover and operational needs





Design Considerations – Walk



Design Considerations – Drive



Design Considerations - Landscape

- Plantings.
- Site Furnishings.
- Sidewalk Materials.









Design Considerations - Underground

- Condition and location of public utilities (water, sewer, stormwater, traffic signals, street lighting).
- Condition and location of private utilities (gas, electric, telecommunications).
- MBTA Red Line infrastructure.

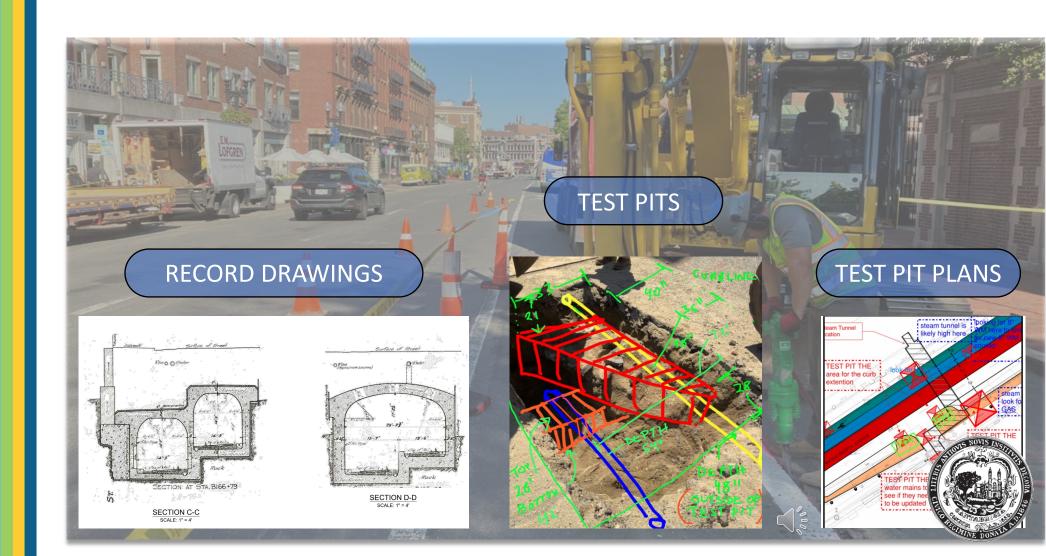








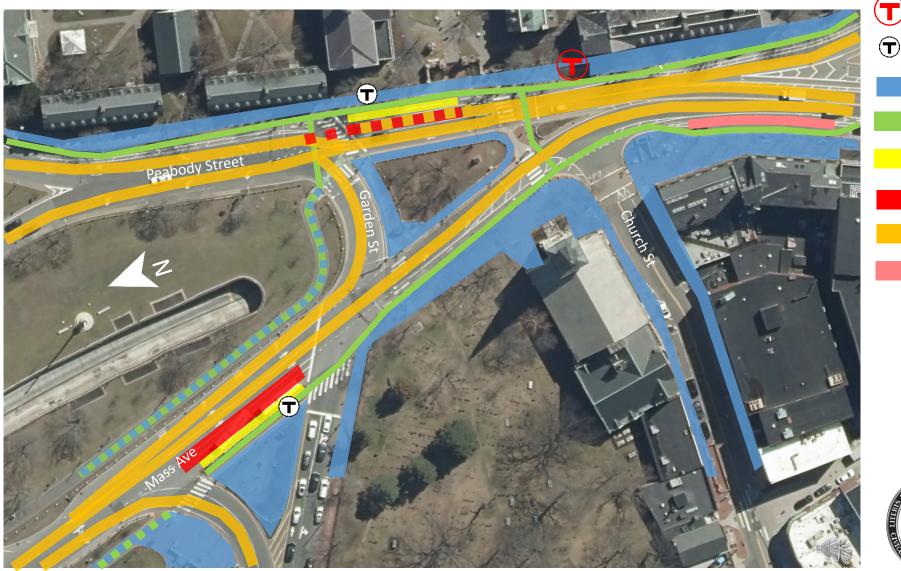
Design Considerations - Underground



Proposed Concept



Church to Garden – Proposed Space Allocation





Red Line entry

Bus Stop

Pedestrian zone

Bike zone

Bus loading/ waiting area

Bus stop zone

Driving zone

Taxi zone

Not drawn to scale – for illustrative purposes only

Plympton to Dunster – Proposed Space Allocation



Not drawn to scale – for illustrative purposes only

Pedestrian zone

Bike zone

Bus loading/waiting area

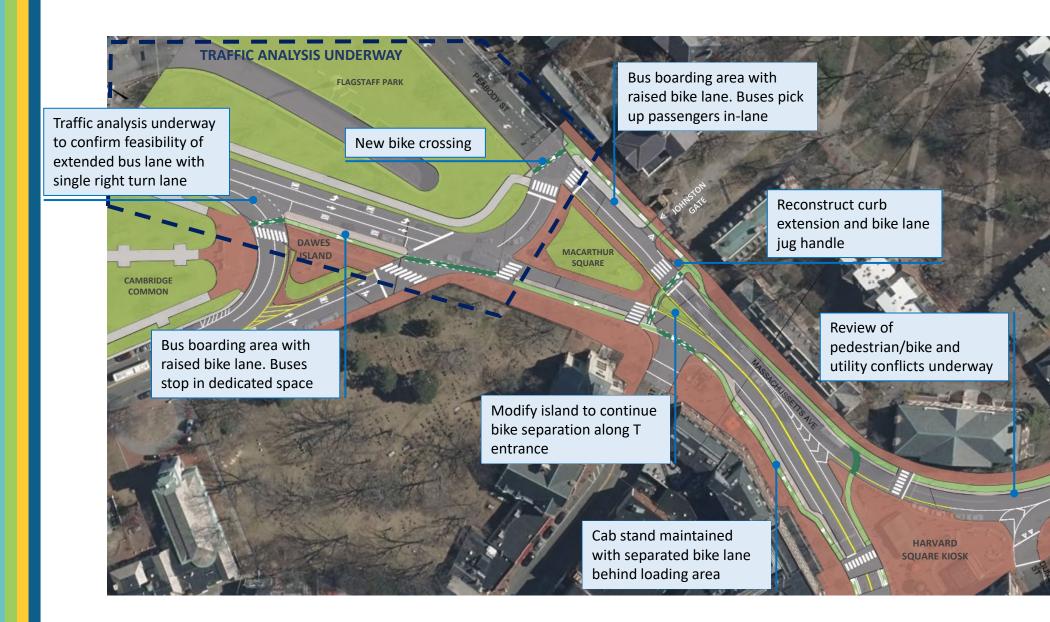
Bus zone

Parking/taxi zone

Driving zone

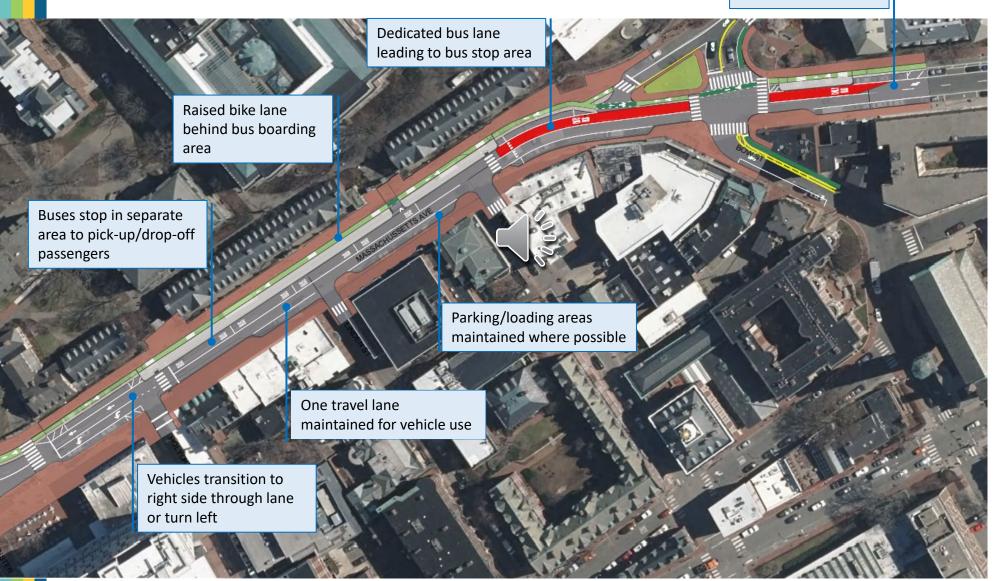


Proposed Concept

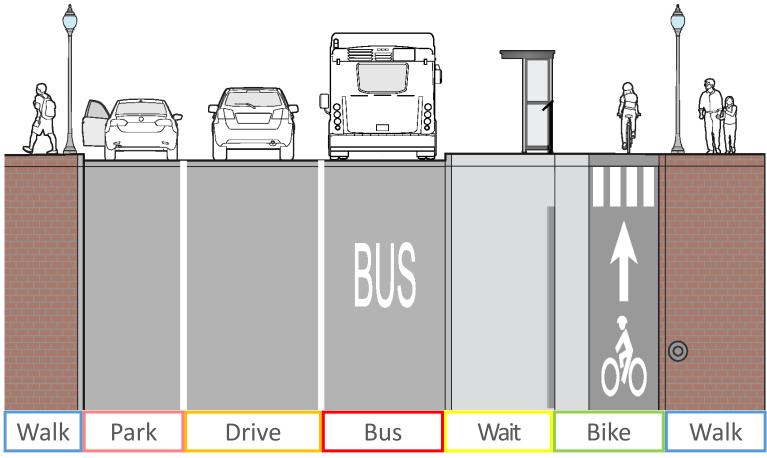


Proposed Concept

Transition to one lane south of Bow St



Plympton to Dunster – Cross Section

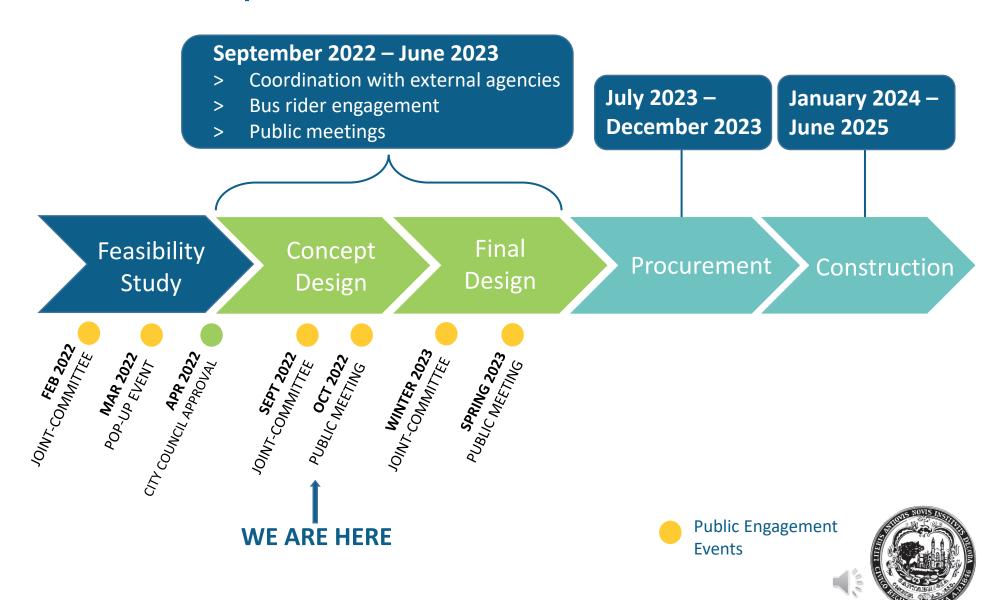




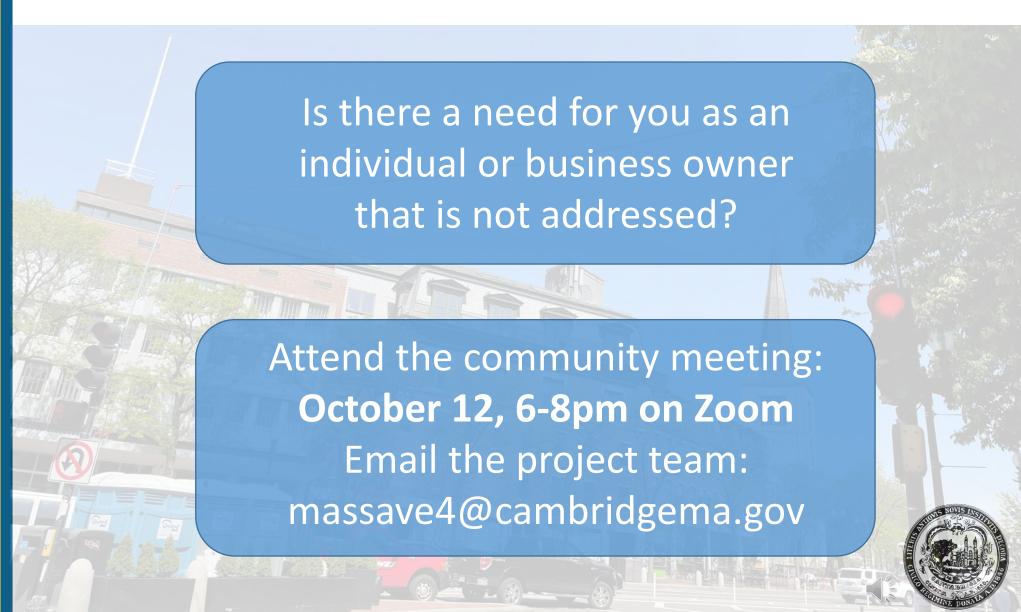
Next Steps



Next Steps



Tell us what you think!



Thank you

