



# Downtown Broadway Utility Improvement

City of Chelsea – City Council Subcommittee – 30 January 2024



# Utility Reconstruction Goals

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- Prevent flooding
  - Reduce likelihood of combined sewer overflow
  - Minimize sewer backups in a high-demand area
  - Ensure clean drinking water supply for all businesses and residents
  - Remove lead water services
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# Work Summary



- Upgrade Water Main
- New Gravity Sewer
- New Gravity Drain

# Schedule

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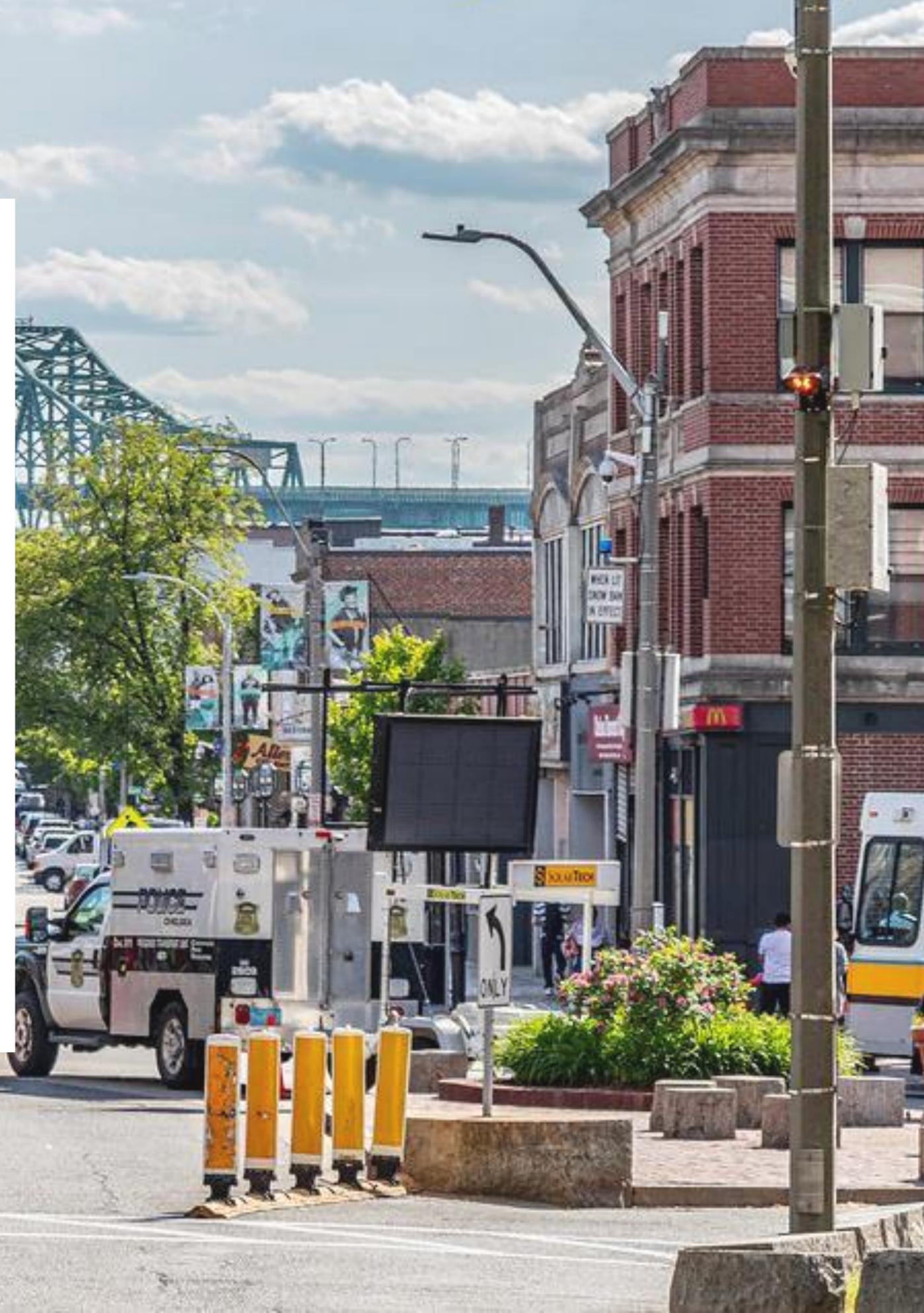
- Design Complete
- Construction bids due mid February 2024
- Break ground May 2024
- Target project completion late 2025



# Chelsea Downtown Broadway Project

## *City Council Subcommittee Meeting*

Chelsea City Hall, Room 305, Chelsea, MA  
Tuesday, January 30<sup>th</sup>, 2024, at 6:00PM EST  
Project File No. 609532



# Project Team

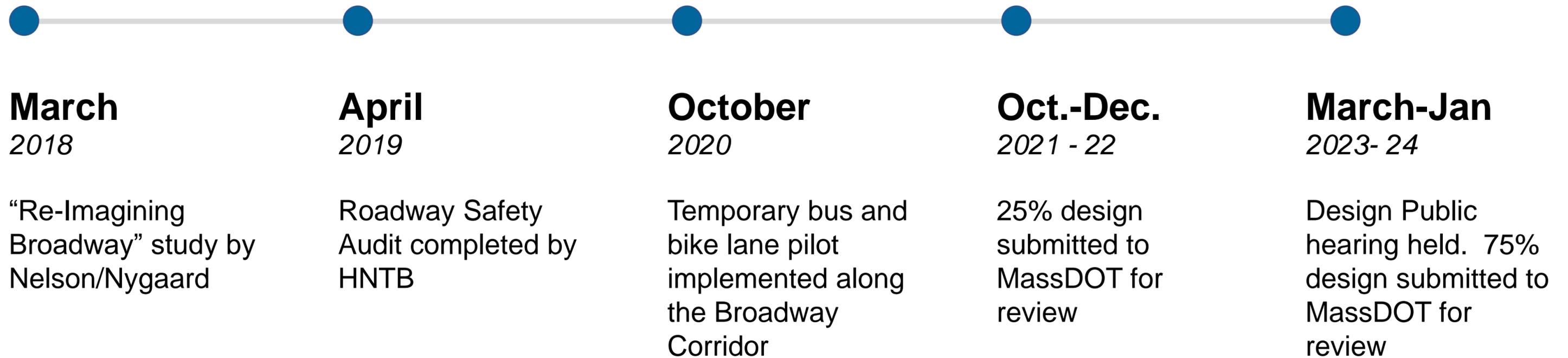
- **MassDOT**
  - Lawrence Cash, Project Manager
  - Joe Doucette, District 6
- **City of Chelsea**
  - Cate Fox-Lent, DPW Commissioner
- **HNTB**
  - Jonathan Kapust, Project Manager
  - Alex Siu, Traffic Lead

# Agenda

- Project history
- Preferred Alternative
- Construction approach
- Questions and answers

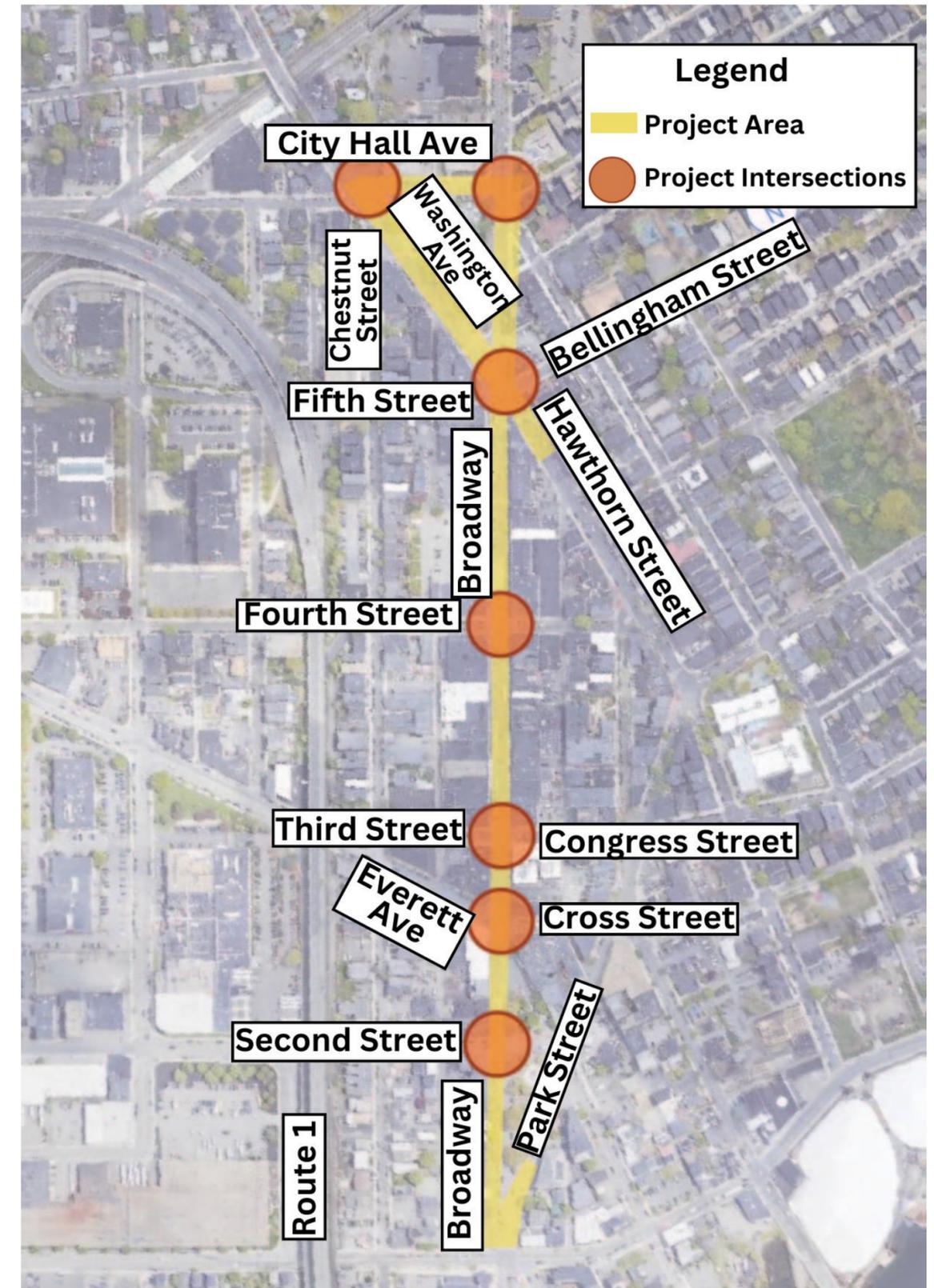


# Project History



## Project Area

- ½ Mile Broadway Corridor –  
From Williams Street to City Hall Avenue
- 7 Intersection Improvements
  - Second Street
  - Everett Ave/Cross Street
  - Third Street/Congress Avenue
  - Fourth Street
  - Washington Ave/Bellingham and Fifth Street
  - Washington Ave at City Hall Ave
  - City Hall Ave/Marlborough Street
- Project Cost: \$7.7 million
  - Does not include ROW
  - Does not include City hall plaza cost

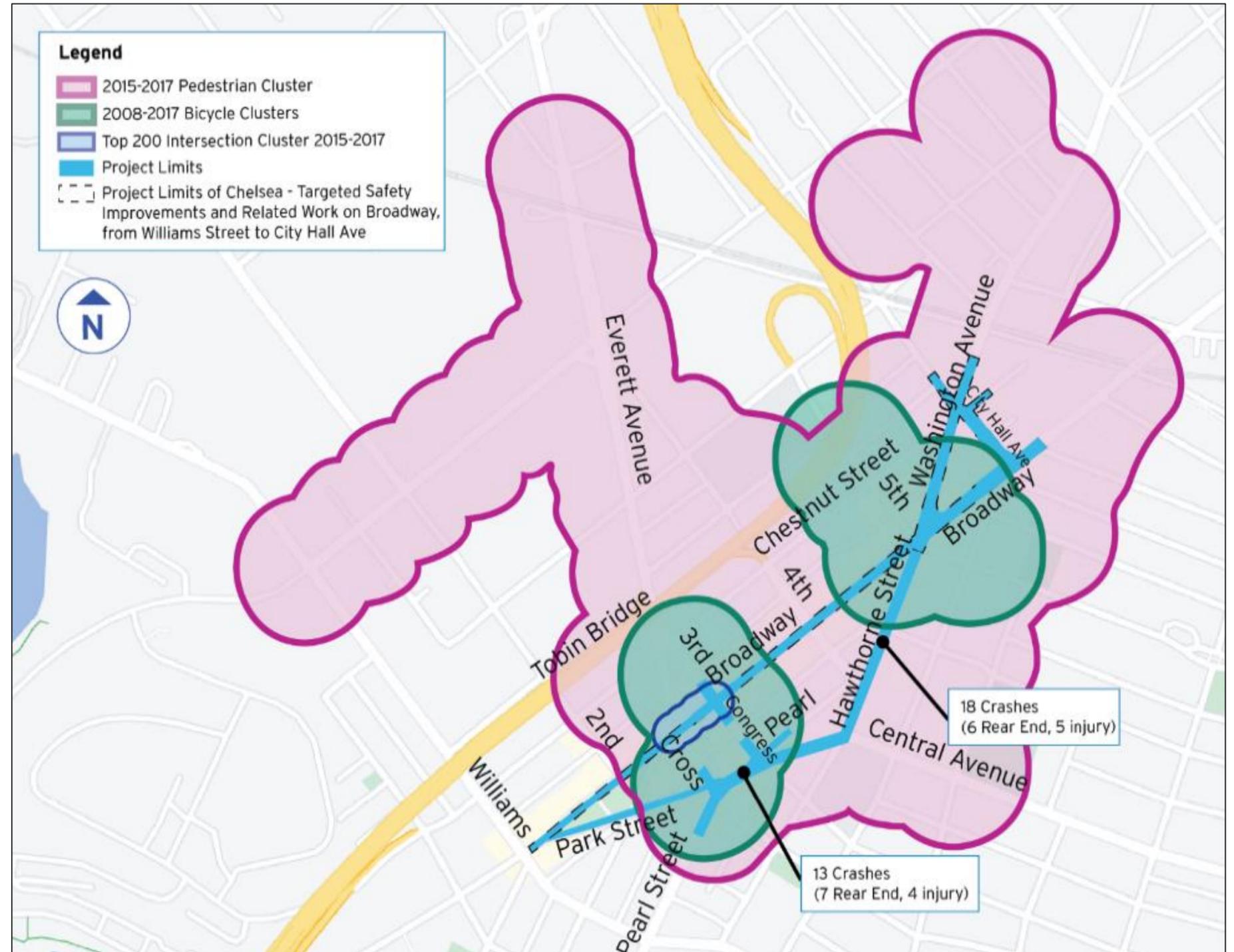




**Why was this project initiated?**

# High Crashes

- The project area has some of the state's most dangerous vehicle, bicycle, and pedestrian crash clusters. (Via: Highway Safety Improvement Program, or HSIP).
- HSIP clusters are areas in the state of Massachusetts with high numbers of crashes.
- Over 2,800 people walk through the intersections every day.
- 2019 Road Safety Audit identified large amount of rear end and angle crashes at intersections and double-parked vehicles.



# Transit

- Five MBTA bus routes have stops on Hawthorn Street at Bellingham Square
- Three of these routes (111, 116 and 117) carry over 24,000 riders per day.
- Buses often stop away from curblines.
- Sidewalks are blocked by transit users waiting to board

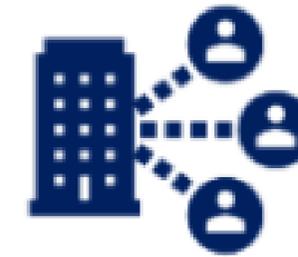




**What do we  
want to  
accomplish?**

## Targeted Safety Improvements

- Project goal is to improve roadway safety for all road users:
  - Shorter crosswalks for pedestrians at intersections
  - Accessibility improvements at intersections and sidewalk
  - Larger bus stops
  - Bicycle connections to/from Chelsea Greenway
  - Simplified, safer roadway network at City Hall
- Advances key goals of the 2018 City of Chelsea Re-imagining Broadway Plan



80% of Chelsea's workforce are considered "essential employees"



59% of people who live in Chelsea drive to work



29% of people who live in Chelsea take public transportation to work

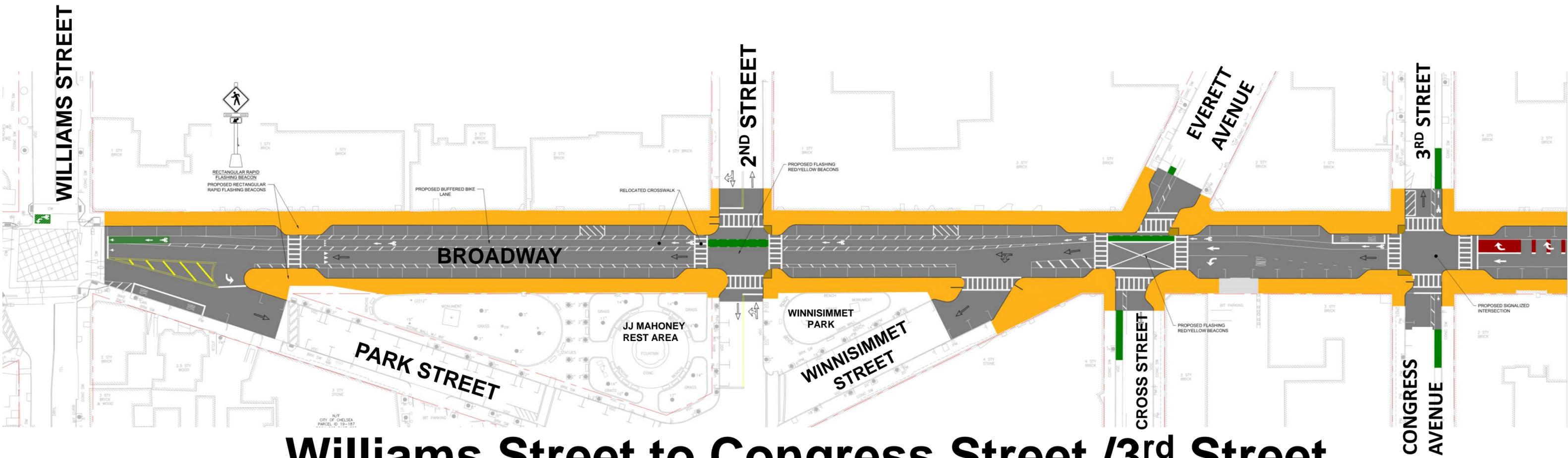


30% of households in Chelsea do not own cars



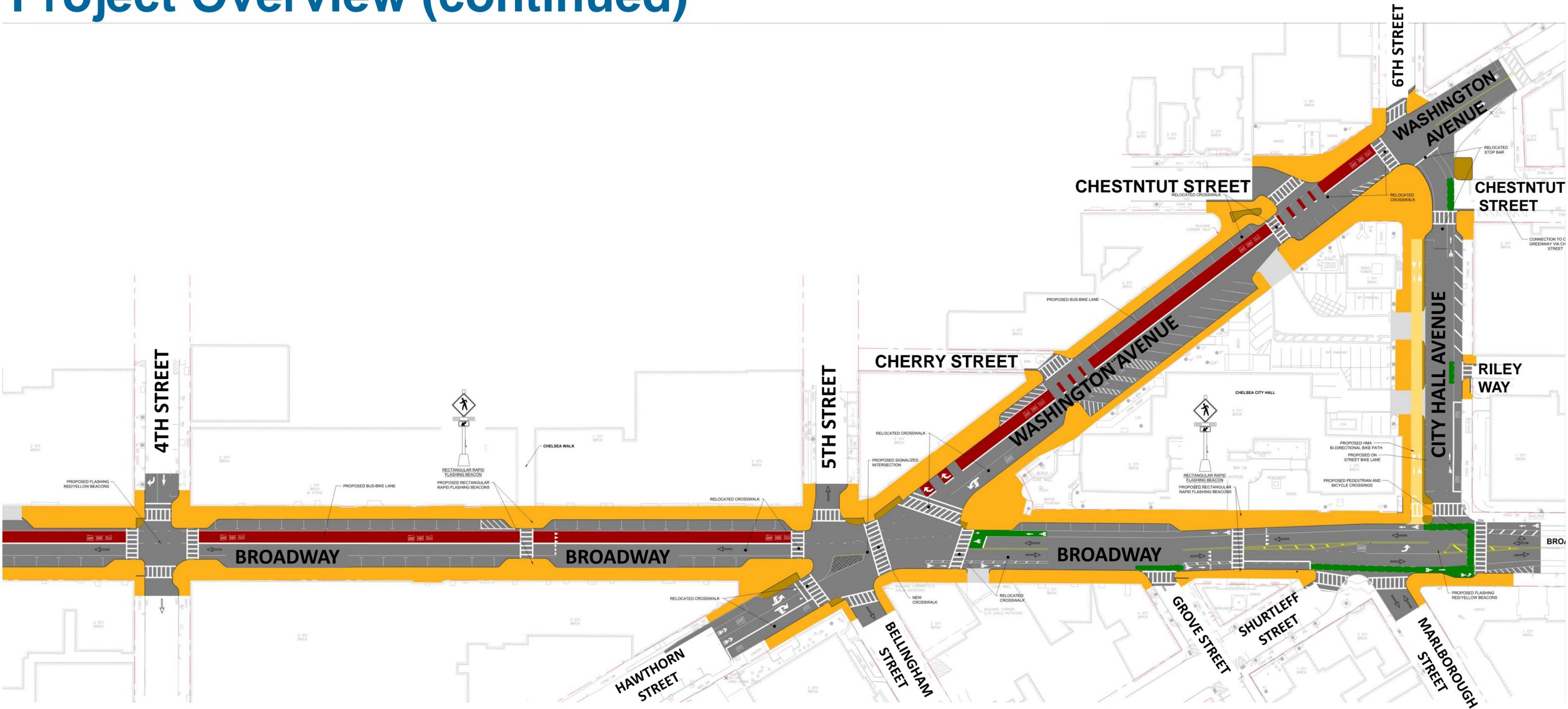
How has our  
design  
progressed?

# Project Overview



## Williams Street to Congress Street /3<sup>rd</sup> Street

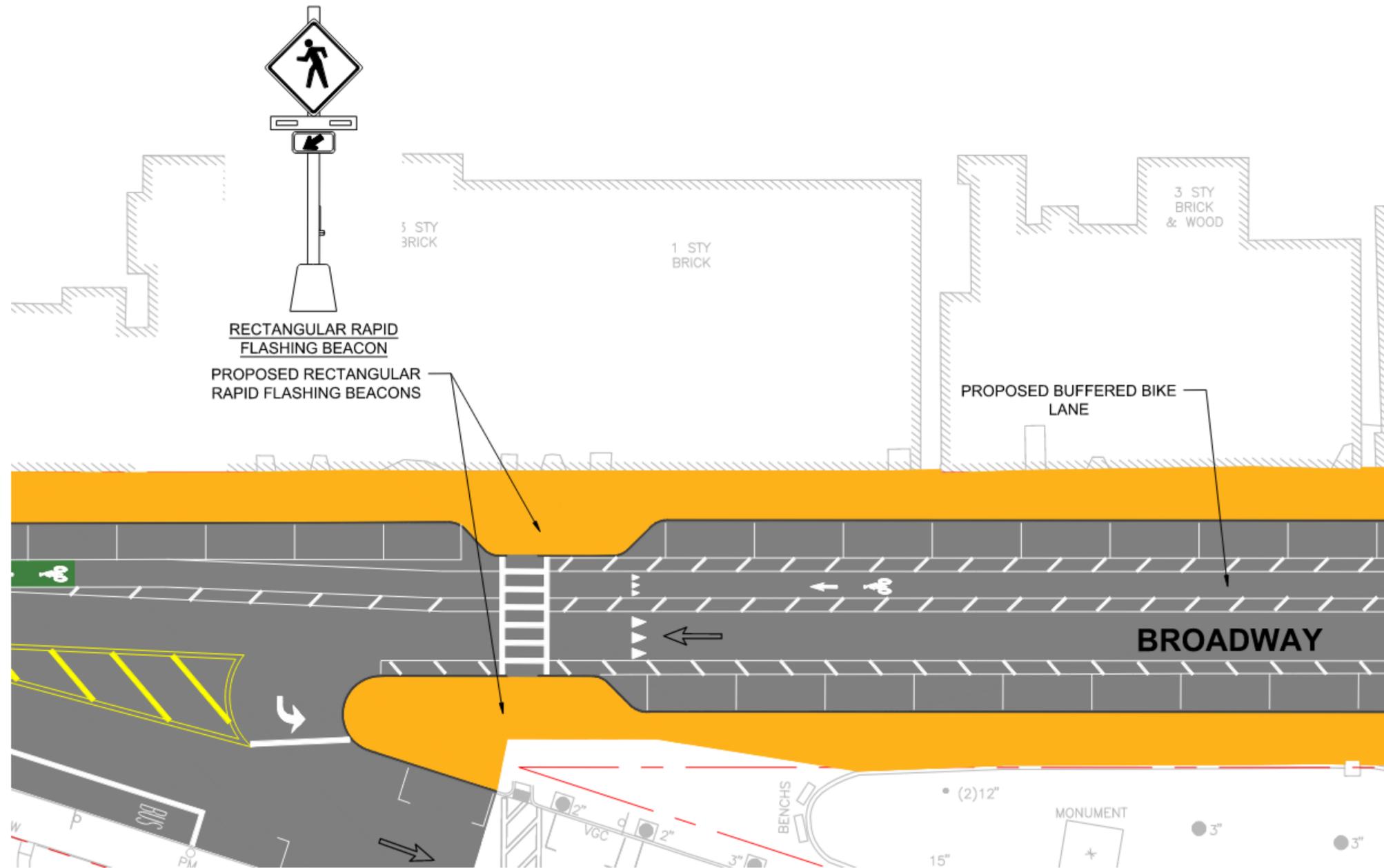
# Project Overview (continued)

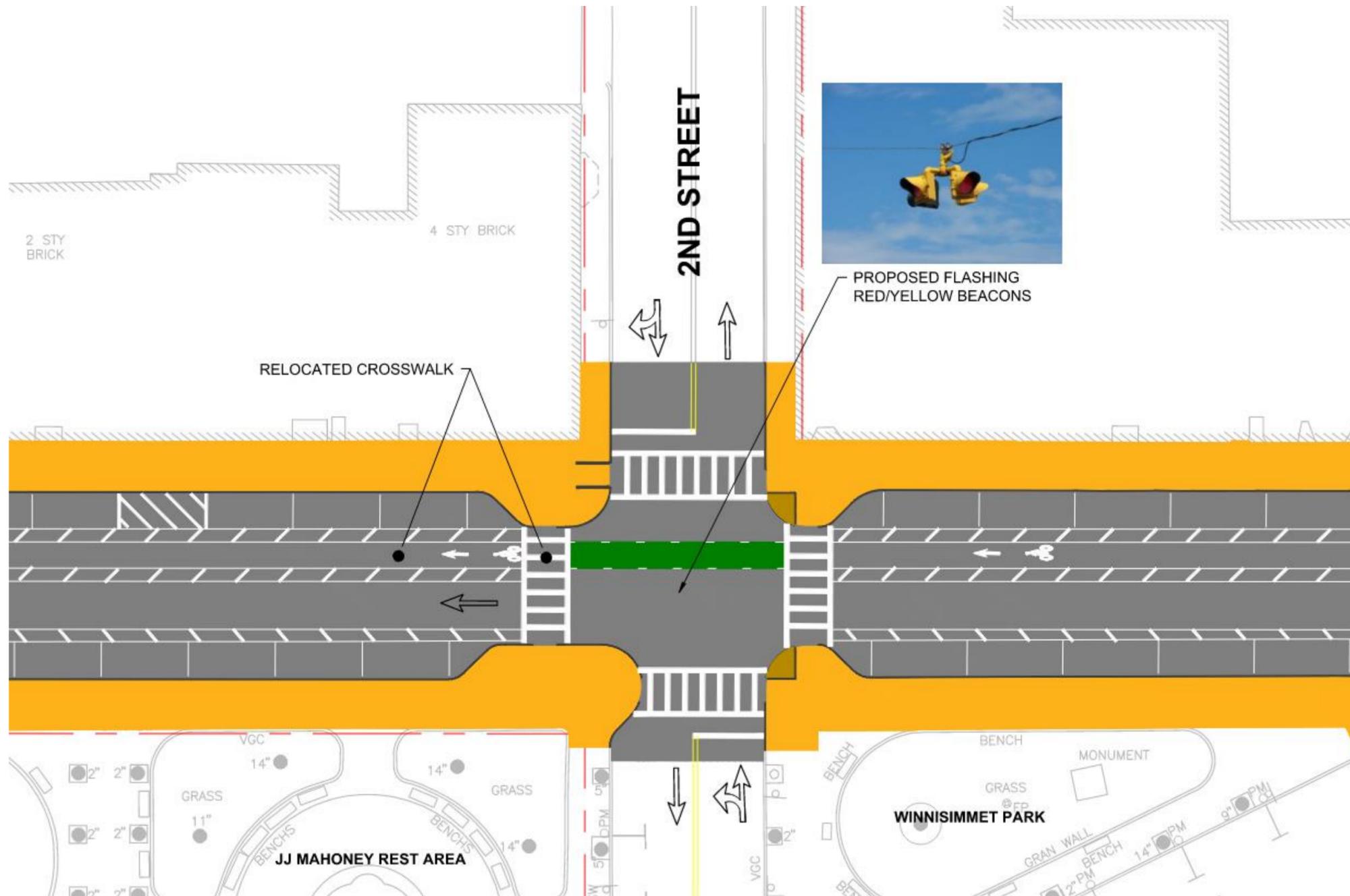


## 4<sup>th</sup> Street to City Hall Ave

## Install flashing pedestrian beacons & buffered bike lane

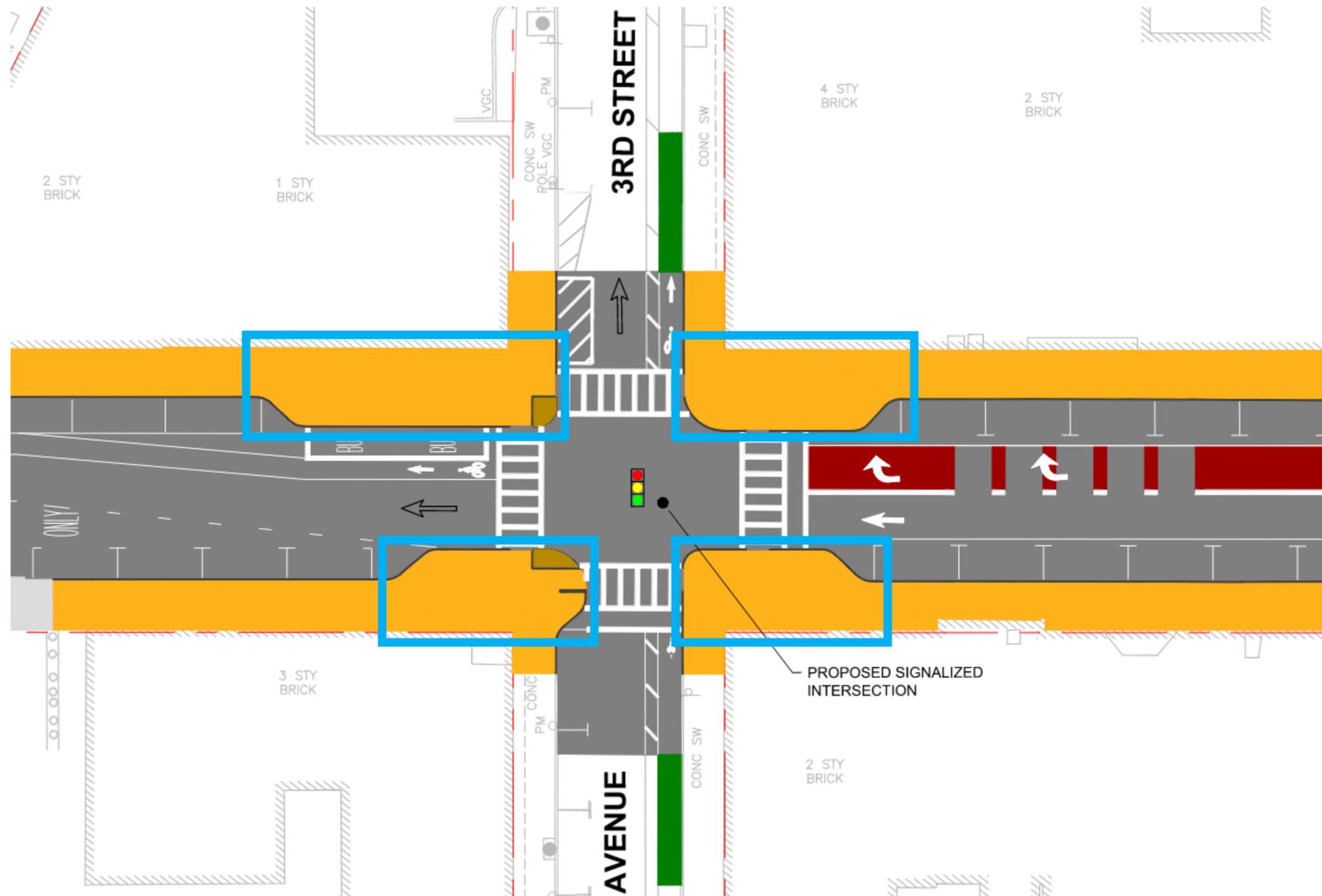
- Increase safety and visibility for those walking across the street
- Buffered bike lane on Broadway increases rider safety





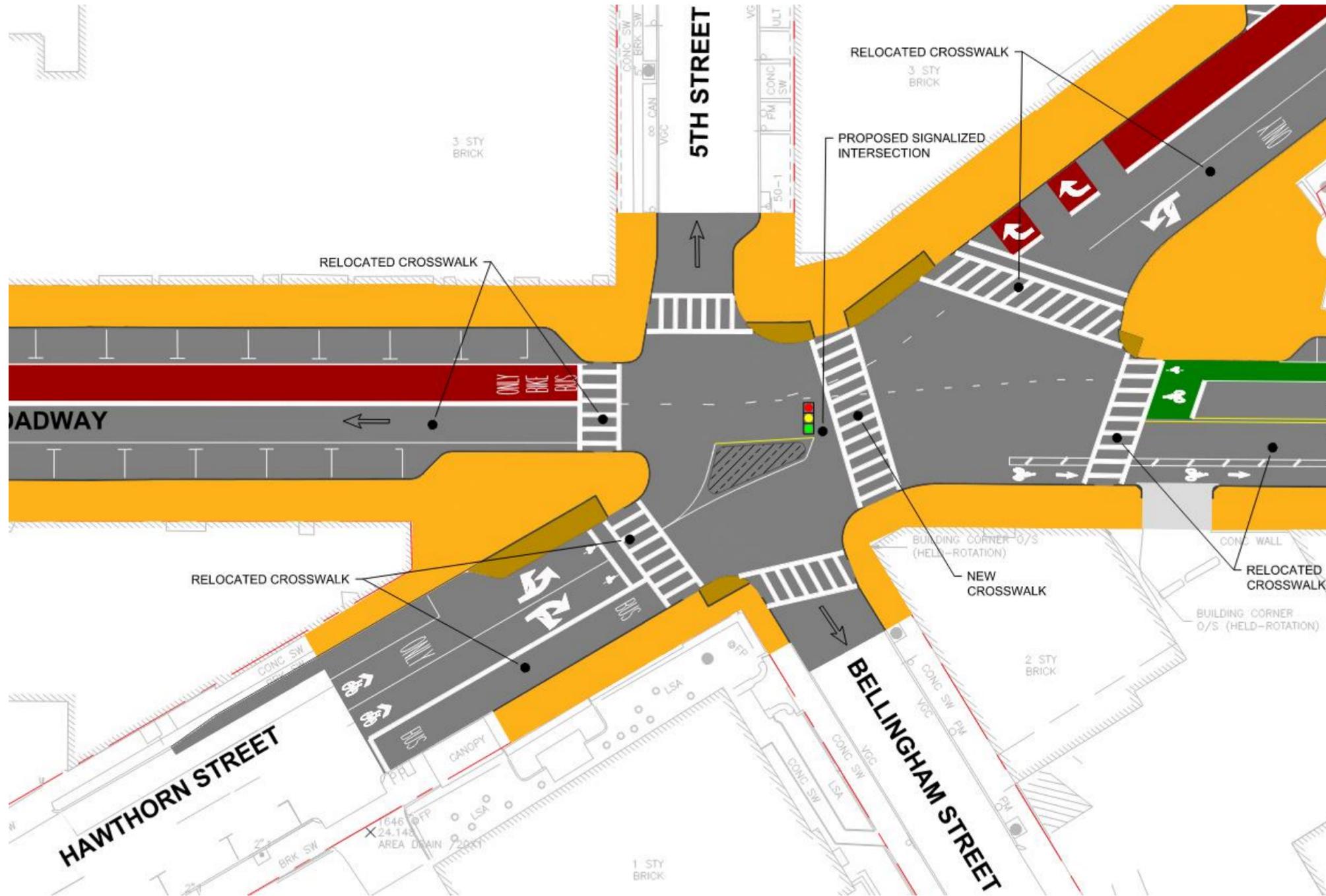
## Install overhead flashing beacons at intersections with no traffic signal

- Flashing beacons are proposed in addition to stop signs to provide additional visual warning to drivers



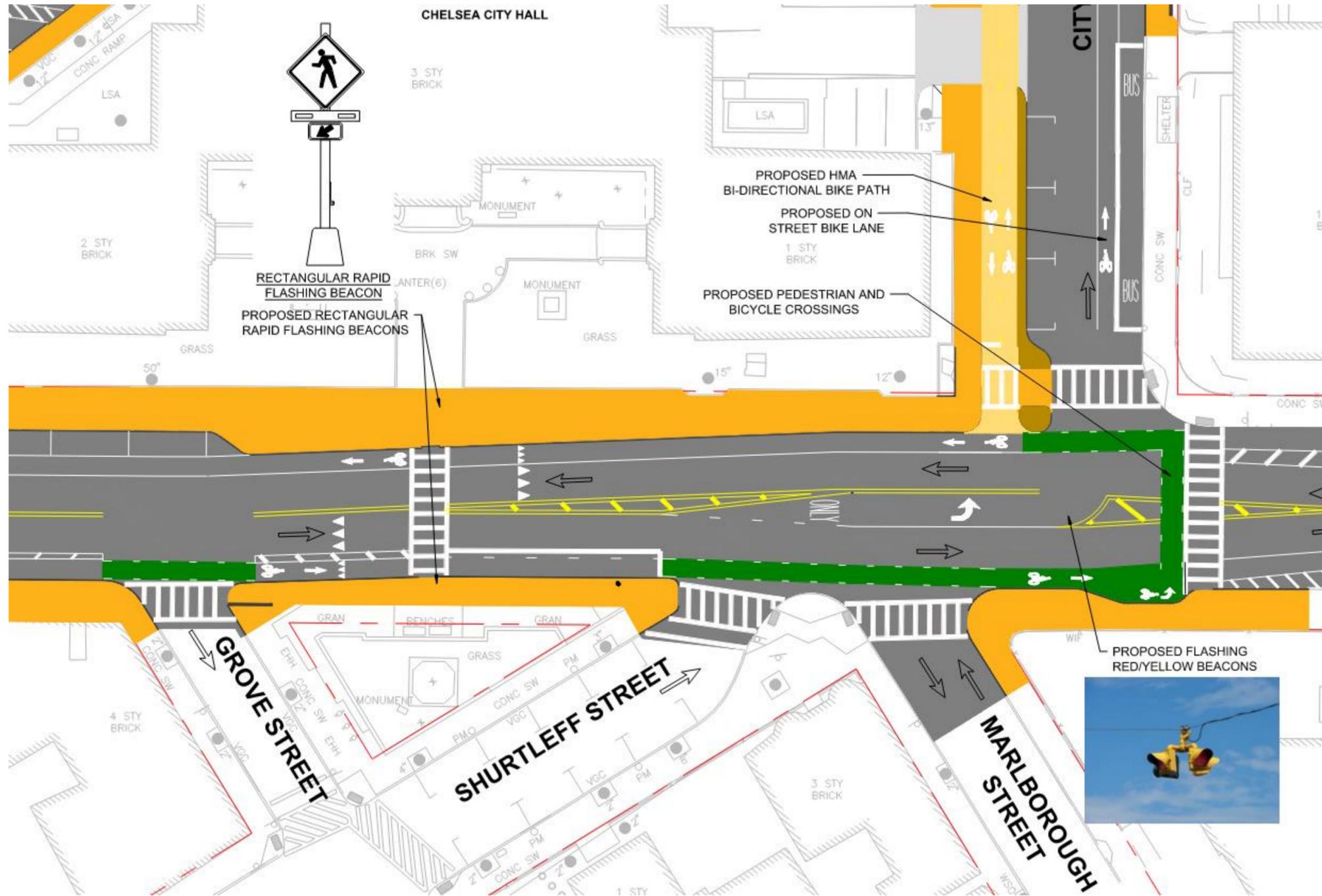
## Widen sidewalks at intersections

- Make crossing distances shorter and make pedestrians more visible to drivers
- Crosswalks are relocated closer to the intersection to make pedestrians more visible to drivers



# Redesigned Bellingham Square

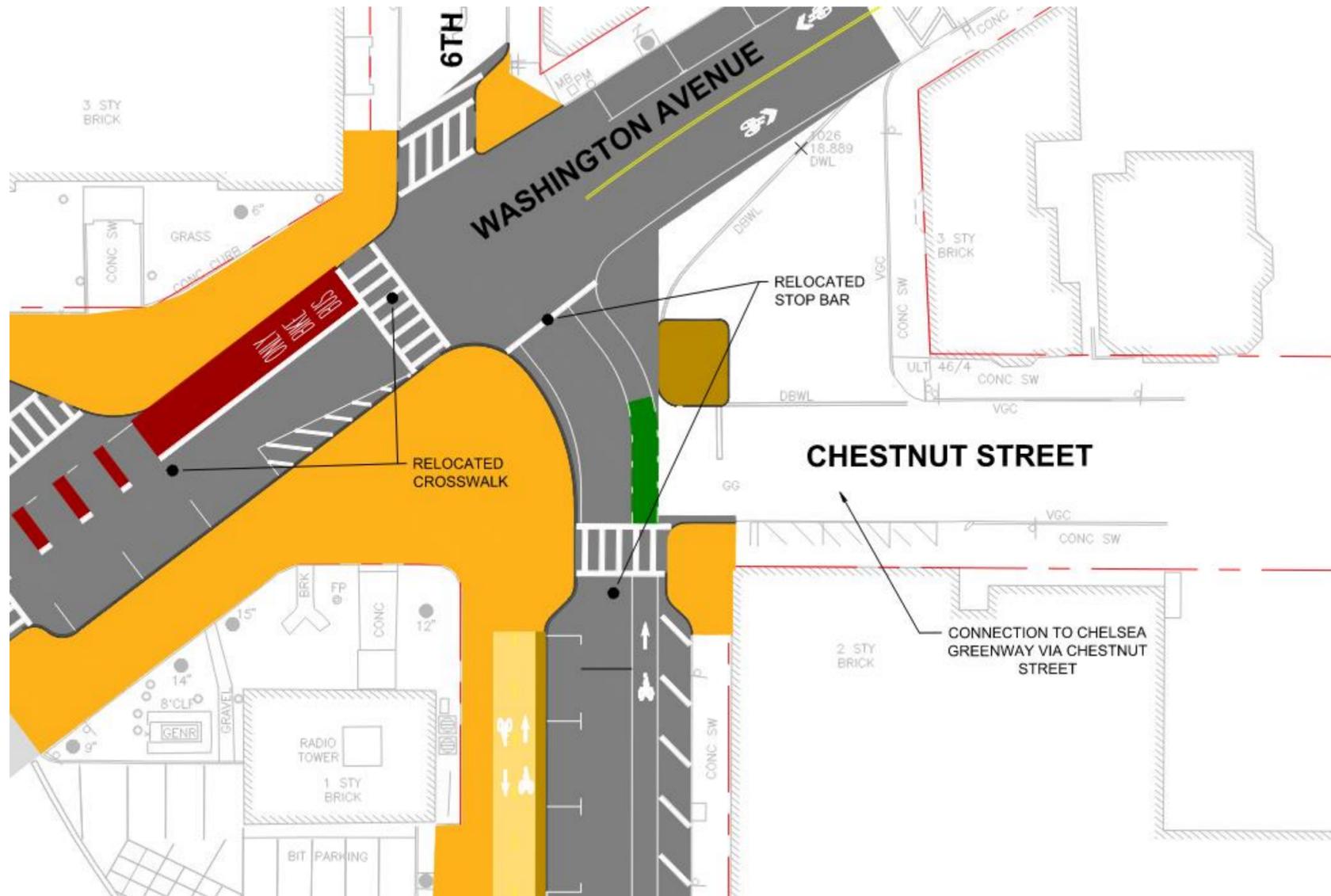
- Allow left turns from Washington, Broadway and Hawthorn Street
- Signal control for all movements
- Additional crosswalks including mid intersection



## Two-way traffic on Broadway & bike improvements

- Make Broadway (in front of City Hall) two-way
- Bi-directional bike path is proposed along City Hall Avenue
- Makes connections to the Chelsea Greenway

## Fay Square improvements

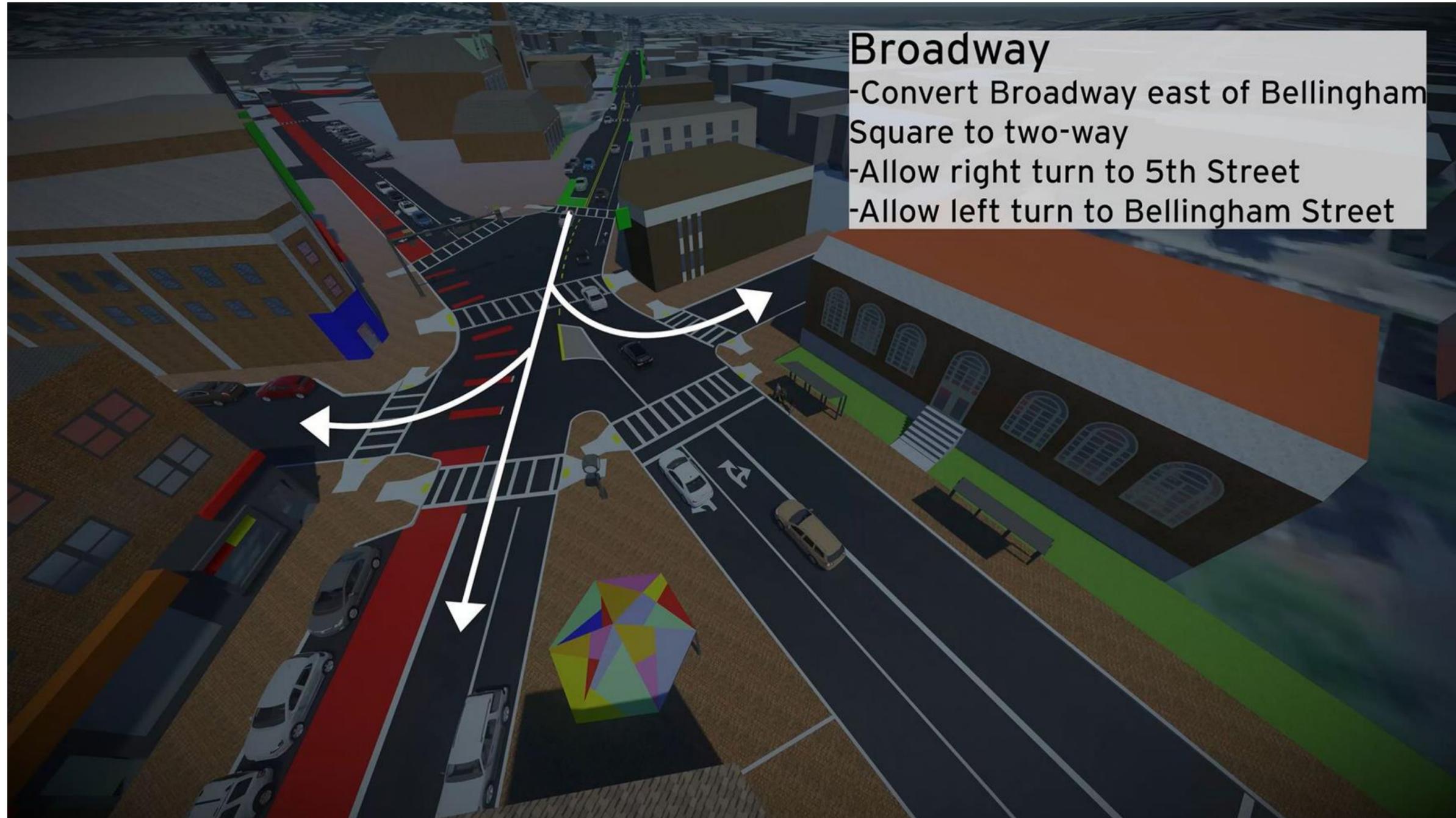


- Reduce size of paved area, shorten crosswalks, and define travel lanes for vehicles
- Fire station operations not affected.
- Makes connections to the Chelsea Greenway

# Bellingham Square



# Bellingham Square



**Broadway**  
-Convert Broadway east of Bellingham Square to two-way  
-Allow right turn to 5th Street  
-Allow left turn to Bellingham Street

# Bellingham Square



# Bellingham Square



# Landscape Design at City Hall Plaza

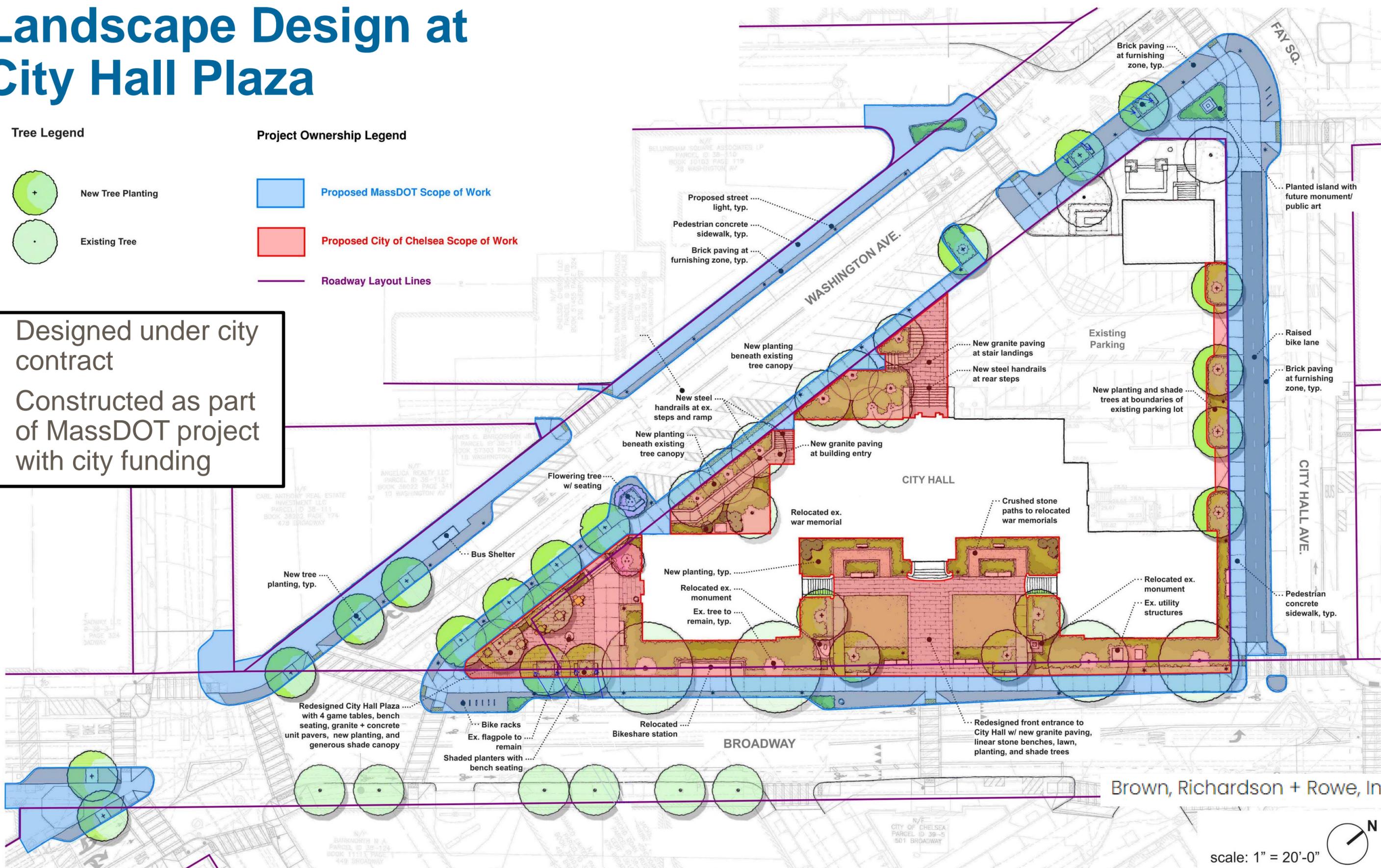
**Tree Legend**

-  New Tree Planting
-  Existing Tree

**Project Ownership Legend**

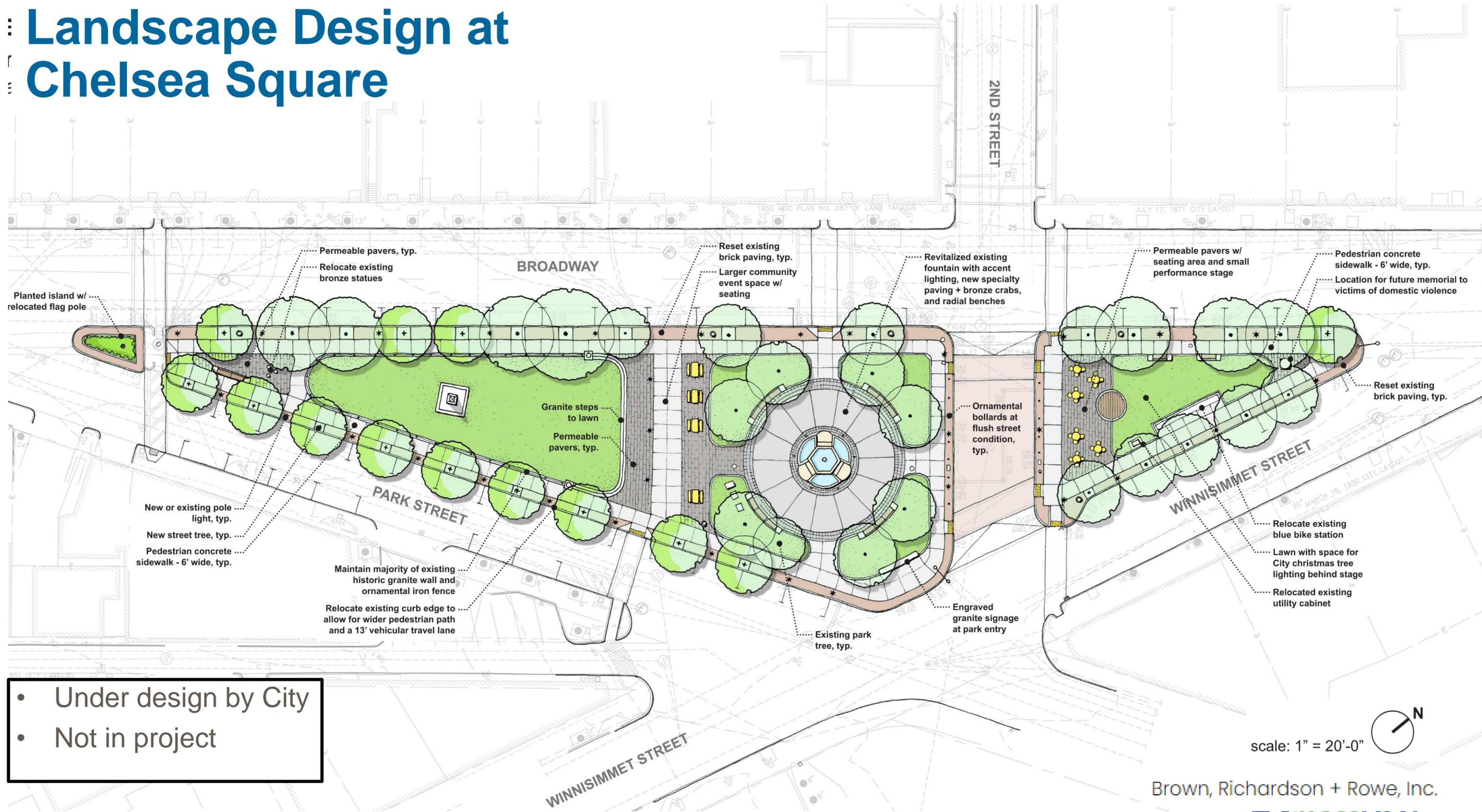
-  Proposed MassDOT Scope of Work
-  Proposed City of Chelsea Scope of Work
-  Roadway Layout Lines

- Designed under city contract
- Constructed as part of MassDOT project with city funding



Brown, Richardson + Rowe, Inc.

# Landscape Design at Chelsea Square



- Under design by City
- Not in project

scale: 1" = 20'-0" 

Brown, Richardson + Rowe, Inc.





**What is the  
construction  
approach?**

## Construction Approach

- Lane closures will follow Massachusetts Department of Transportation (MassDOT) standard details
- Temporary pedestrian facilities will be provided during all stages of construction
  - Access will be maintained to all abutters
- Bellingham Square constructed in stages and all other intersections will be constructed individually
  - Parking impacts will be minimized at mostly located at intersections or where the curblines is adjusted.
- **Contractors will not be able to park equipment or stage in parking not under construction**

## Next Steps

- Final Design – Finishing in fall 2024
- Secure the ROW – Summer 2024
- Project Advertise – Spring 2025
- Construction – begins following completion of contract for sewer separation phase 1
  - March 2024 - December 2025
- Continued public outreach
  - Pop-up events
  - Stakeholder coordination and engagement
  - Continue to solicit public feedback and comment

# Communications

**For General Information, Visit the Project Website:**

<http://tiny.cc/ChelseaBroadway>



**To Leave a Comment Online, Visit:**

<http://tiny.cc/ChelseaComments>

**To Submit a Comment by Mail, Write to:**

Carrie E. Lavalley, P.E., Chief Engineer  
Suite 7550, 10 Park Plaza, Boston, MA 02116,  
Attention: Project Management, Project File No. 609532

**or Email:**

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