







Public Meeting #2

Tuesday, November 19, 2019

Today's Agenda

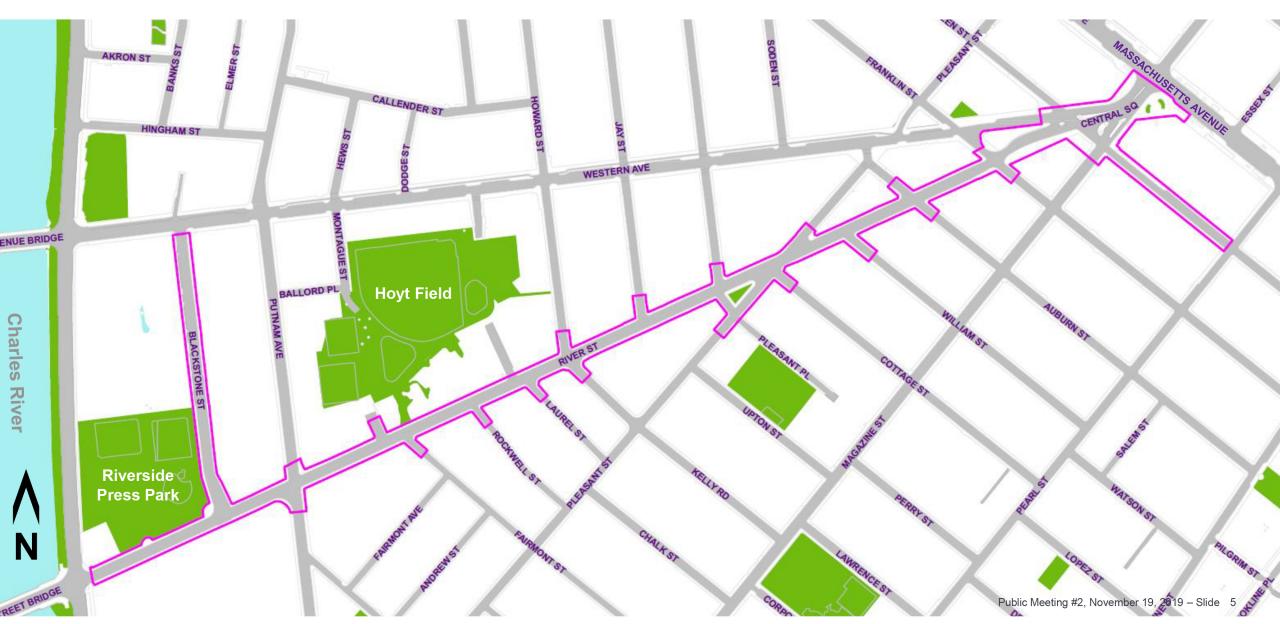
- Welcome and Overview
- Review of Public Input
- Conceptual Design Development
- Concept Walkthrough
- Clarifying Questions
- Detailed Comments on Draft Concept
- Conclusion

5 minutes
10 minutes
15 minutes
30 minutes
10 minutes
45 minutes

5 minutes

Welcome and Overview

River St Reconstruction Project Area



Project Team

City Team

Jerry Friedman

Public Works

Bill Deignan

Community Development

Patrick Baxter

Traffic, Parking & Transportation

Consultant Team

- HDR Engineering
- Halvorson Design Partnership
- McMahon Associates
- Project for Public Spaces
- GEI Consultants
- BSI Engineering
- Feldman Land Surveyors

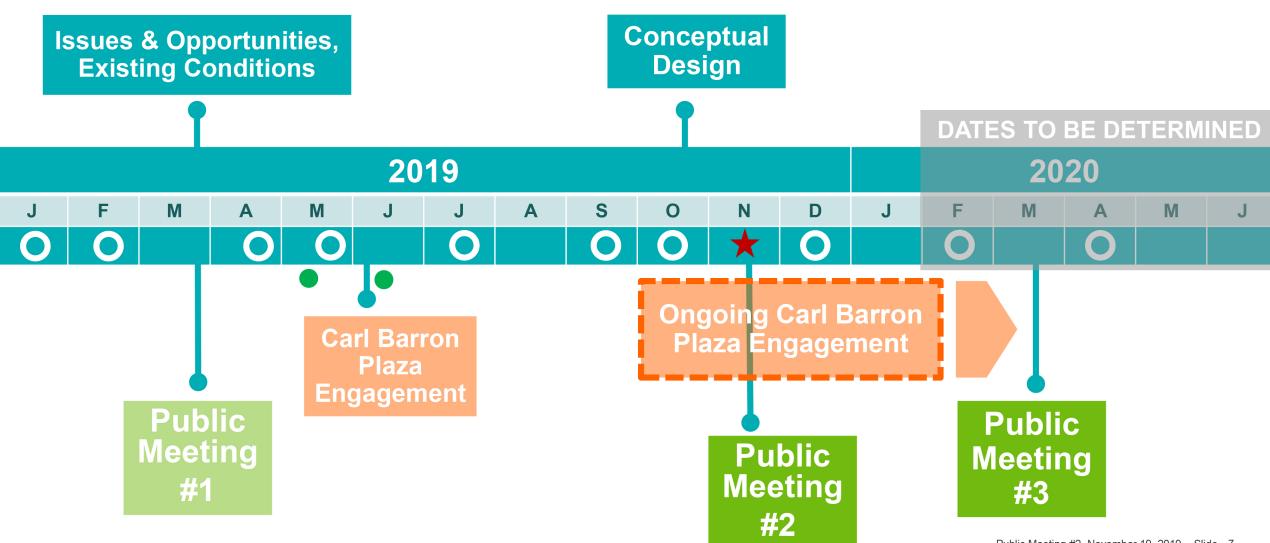


Expected Timeline

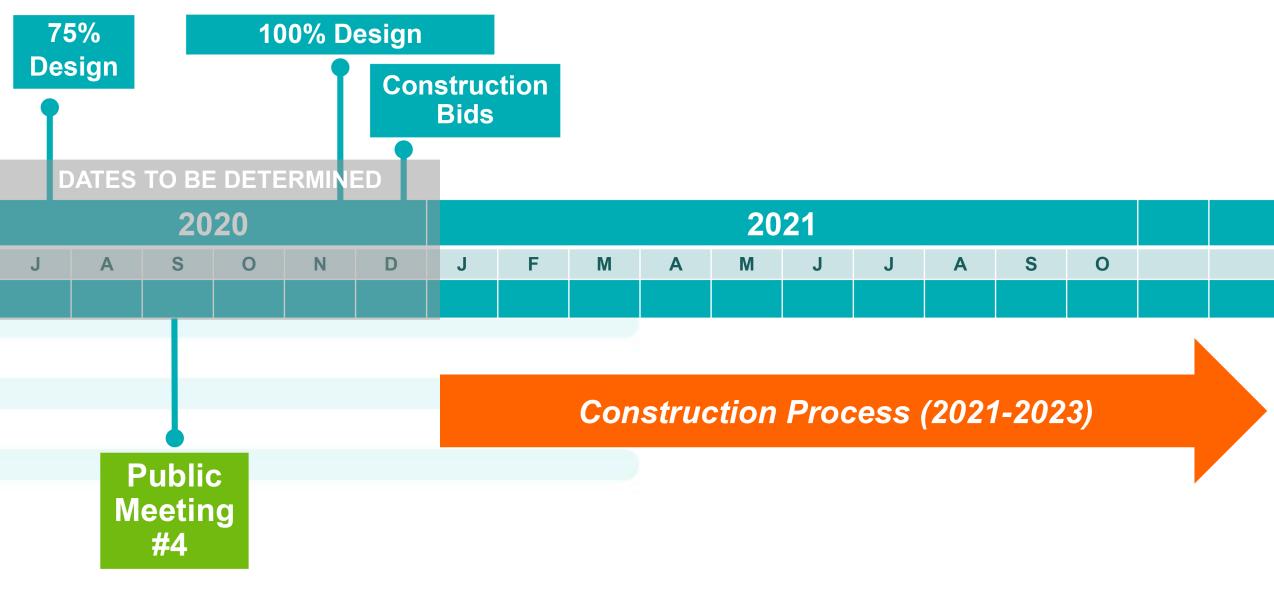


Public Walks

★ Today



Expected Timeline



Upcoming Meetings

- Working Group #8 Meeting: Tuesday, December 17, 6-8pm at Manning Apartments
 - Review feedback from tonight's Public Meeting #2
 - Review refined concept which incorporates public comments
 - Refine conceptual framework for Carl Barron Plaza and Massachusetts Avenue intersection
- Working Group #9 Meeting: Date to be determined
 - Carl Barron Plaza concepts and River Street from Auburn Street to Massachusetts Avenue
- Public Meeting #3: Date to be determined
 - Carl Barron Plaza concepts and River Street from Auburn Street to Massachusetts Avenue

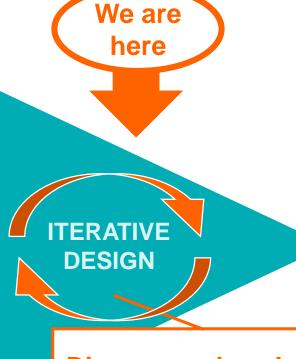
Iterative Design Stage

IDENTIFY ISSUES

Define and analyze challenges and opportunities through perceptions and data

ESTABLISH VISION

What are our goals, in the context of existing planning & policies?



Discuss and evaluate concept alternatives

Develop the final concept

IMPLEMENTATION

Review of Public Input

City Policies and Planning



















New Mobility Blueprint





Cambridge Growth Policy

UPDATE 2007









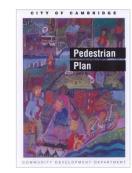














Public Meeting #1 3/26/19 – 81 Attendees

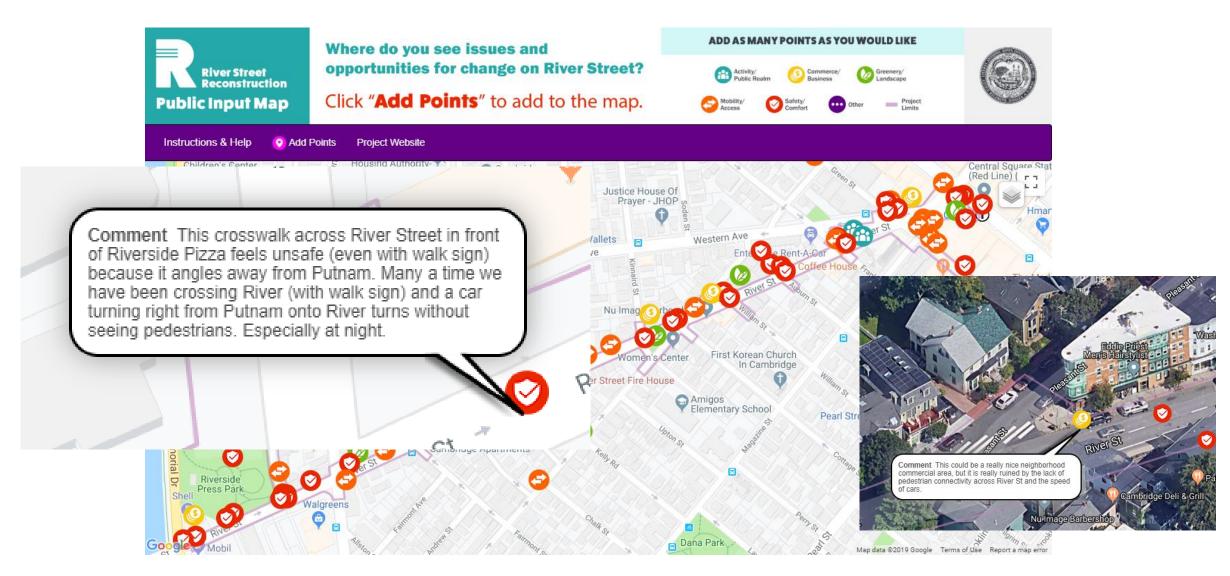








Online Public Input – 93 Commenters



7 Working Group Meetings So Far...







The Working Group

- Patrick Barrett
- Dan Beaulieu
- Seanna Berry
- Sai Boddupali
- Valerie Bonds
- Matthew Ciborowski
- Gabriel Cira
- Abby Duker
- Samuel Gebru

- Melissa Greene
- Kai Long
- Neil Rodriguez
- Randy Stern
- Andrew Tarsy
- Christopher Tassone
- Annie Tuan
- Olivia Turner
- Saul Tannenbaum



Other outreach...

- River Street pre-construction survey (83 respondents so far)
- Cambridge Winter Farmers Market (3/23/19)
- Mobility Walk (5/14/19)
- River Festival (6/1/19)
- Urban Design Walk (6/11/19)
- Parking Day (9/20/19)

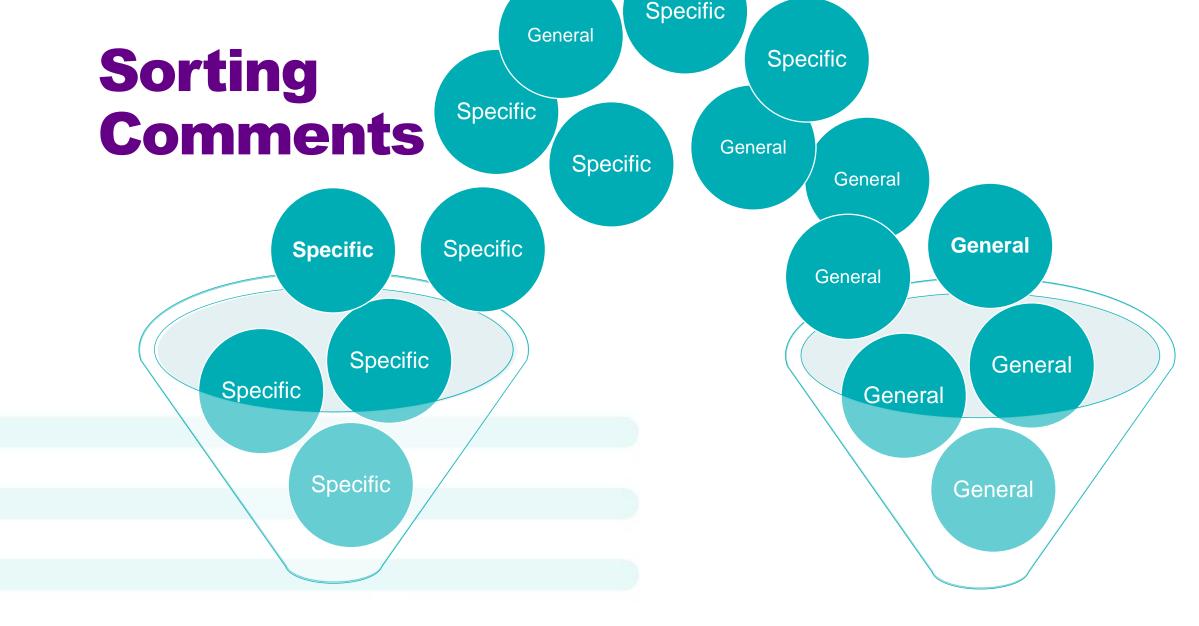
- Business focus groups (8/27/19 and 10/16/19)
- Ongoing coordination with Department of Human Service Programs and Cambridge Police Department
- Carl Barron outreach (full exploration of Carl Barron outreach scheduled for next Public Meeting)



What we heard (highlights):

- Improve safety / lower speeds
- Reduce noise by slowing traffic
- Improve accessibility
- Enhance public space
- Add more greenery
- Expand and activate open space
- Support businesses
- Regulate parking, meet business needs
- Create spaces that encourage people to stay and support retail businesses
- Widen sidewalk near Star Variety store

- Make transportation / movement of people more efficient
- Add separated bikeways
- Reduce bus delay
- Improve bus stops, add amenities, and alleviate crowding
- Create shorter, safer, and more visible crossings
- Improve visibility on turns
- Create long lasting, smooth surfaces
- Provide amenities for the unhoused community (water fountain, public restrooms, etc.)



Location-Specific Comment Map

Shared Design Goals

Guidance for Our Designers: Shared Design Goals

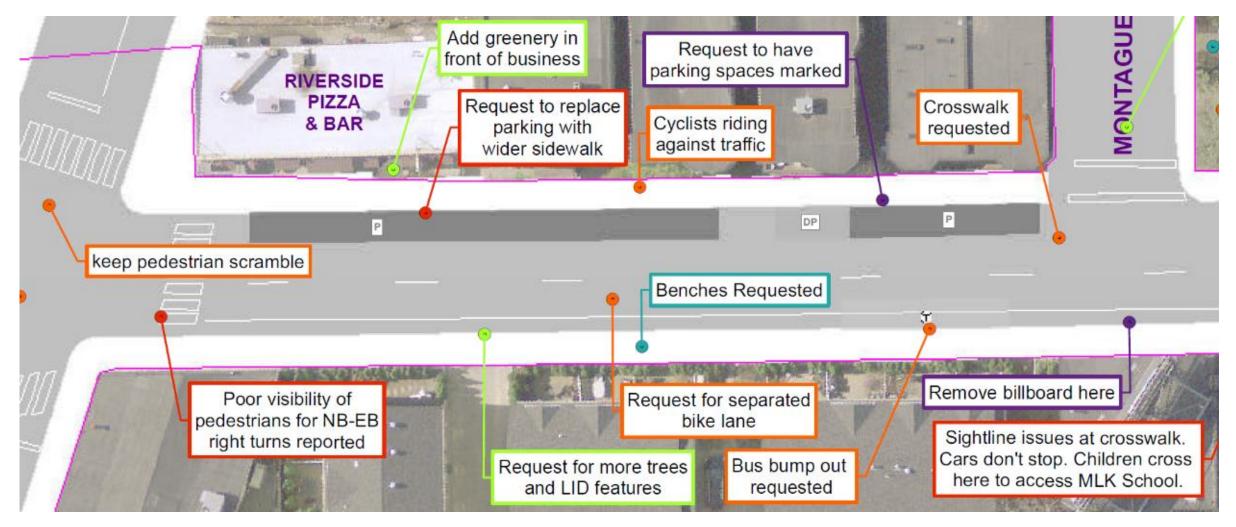
- Safe
- Inclusive
- Human Scale
- Ecological
- Multimodal
- Activated
- Resilient



Western Avenue

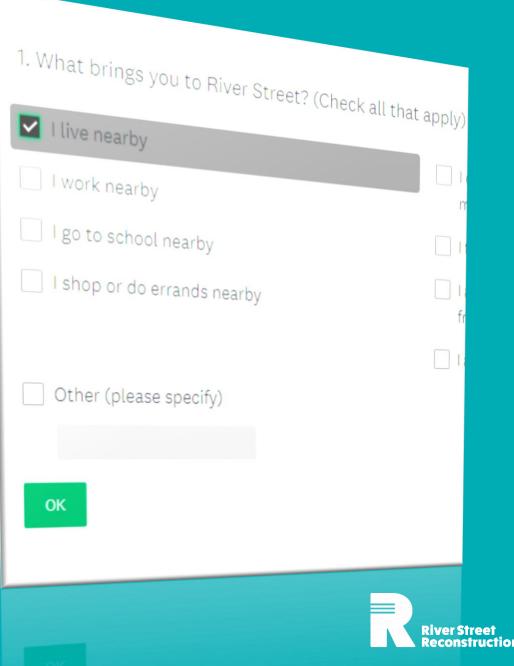


Guidance for Our Designers: Location-Specific Comment Map



Complete and Share the Pre-Construction Survey!!

- Still live at cambridgema.gov/riverstreet!
- Will become the "before" survey for the River Street Reconstruction
- When the post-construction survey is complete, the two surveys will help the City evaluate the project
- Please help us distribute to your neighbors!





Conceptual Design Development: 5 Design Toolbox Highlights

Pedestrian Crossings















Separated Bike Lanes





Raised-No Parking



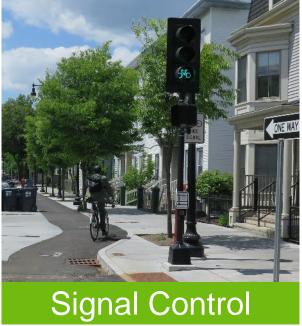
Raised—Buffered w/ Parking



Raised Mountable Curb



Protected Intersections



Bus Priority



Bus Lane



Transit Signals/Bus Queue Jump



Flexible Curbside Space



Function	Definition	Examples of Uses
Access for commerce	Goods and services reach their customers	Commercial vehicle loading, truck loading
Access for People	Arrivals, transfers between modes	Bus stops, bike parking, curb extensions, pick up/drop off, short-term parking, taxi zones
Activation	Offers vibrant social spaces	Food truck parking, seating, parklets, public art, street festivals
Greening	Enhances aesthetics and environmental health	Plantings, rain gardens, bio-swales
Mobility	Moves People & Goods	Sidewalks, bus lanes, bike lanes, travel lanes, turning lanes
Parking/storage	Provides storage for vehicles and equipment	Bus layover, vehicle parking, reserved spaces (police/fire), construction needs.

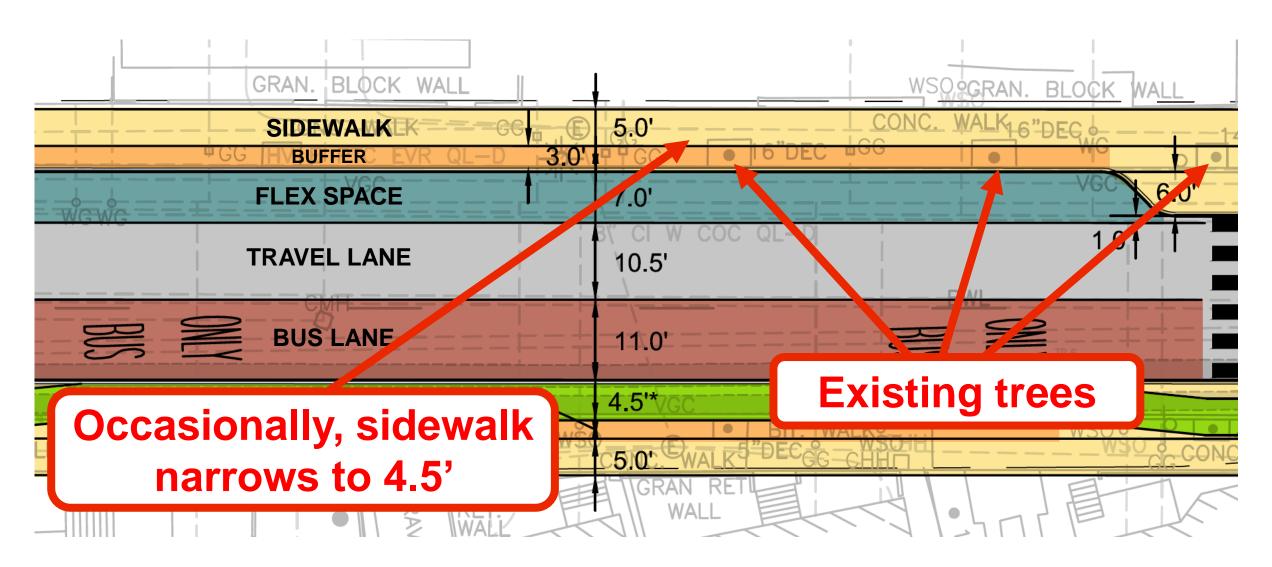
Conceptual Design Development: Givens and Constraints

Givens

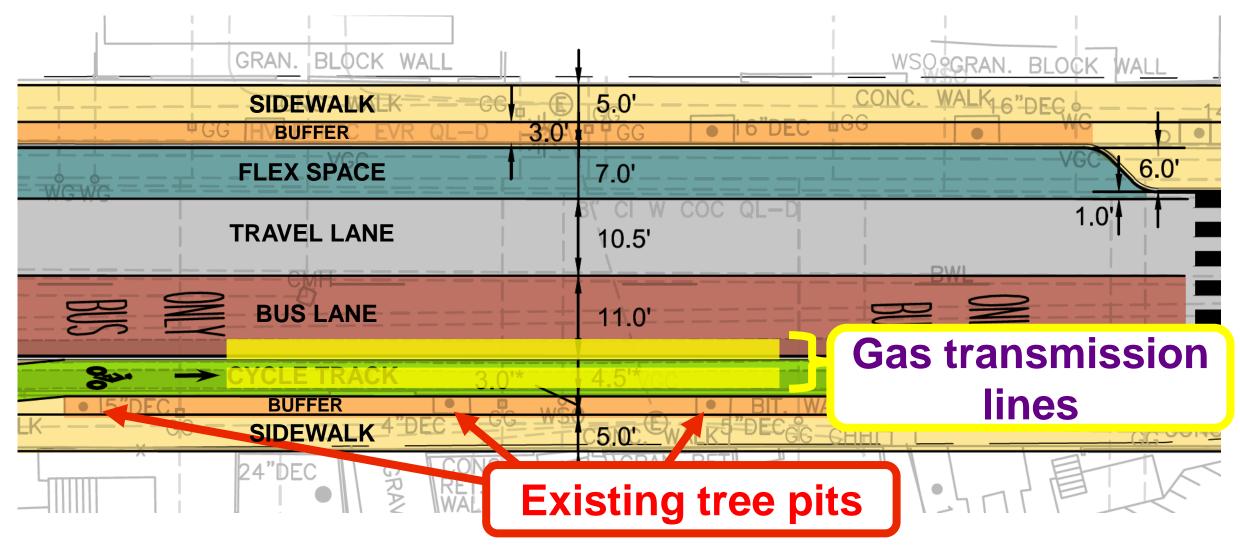
- Address flooding & drainage capacity
- Upgrade and/or protect public and private utilities
- Preserve healthy trees
- Maximize additional trees & improve growing conditions
- Access for emergency vehicles (18-20 feet)
- Accommodate routine maintenance and operations (snow, trash, etc.)

- Include separated bicycle facility
- Regulate parking to allow us to use curbside space more efficiently
- Maintain regional truck route
- Raise crossings on side streets
- Improve intersections

Example of Sidewalk Constraint



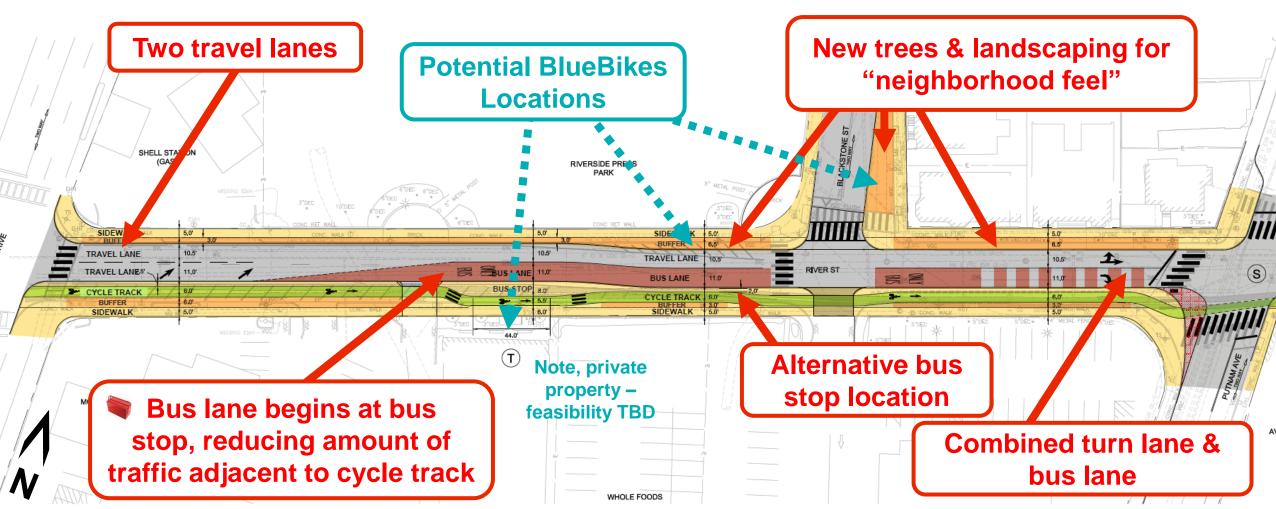
Example of Utility Constraint



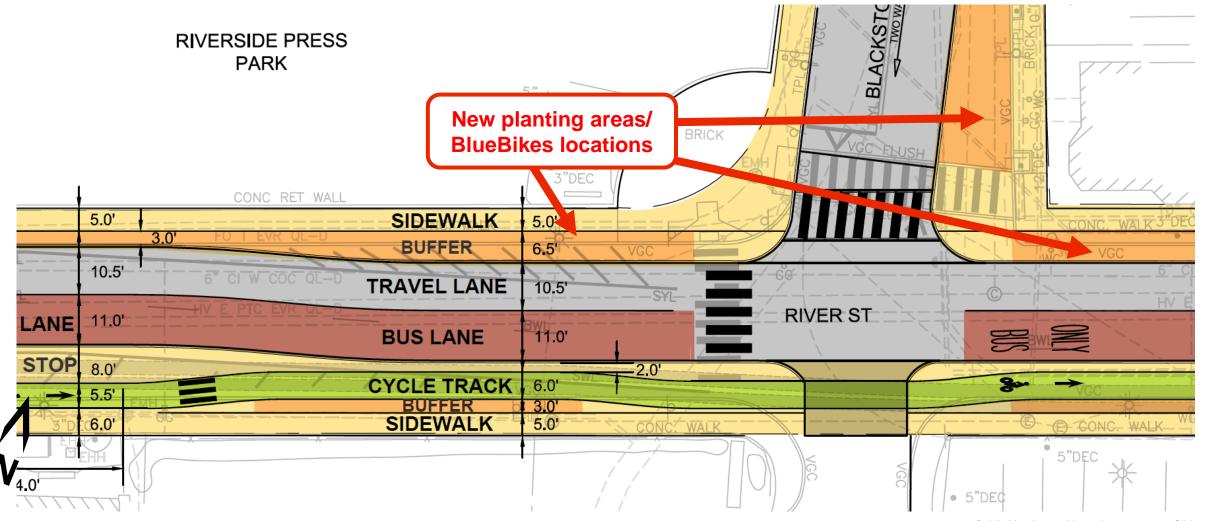


Concept Walkthrough

Memorial Drive to Putnam Ave

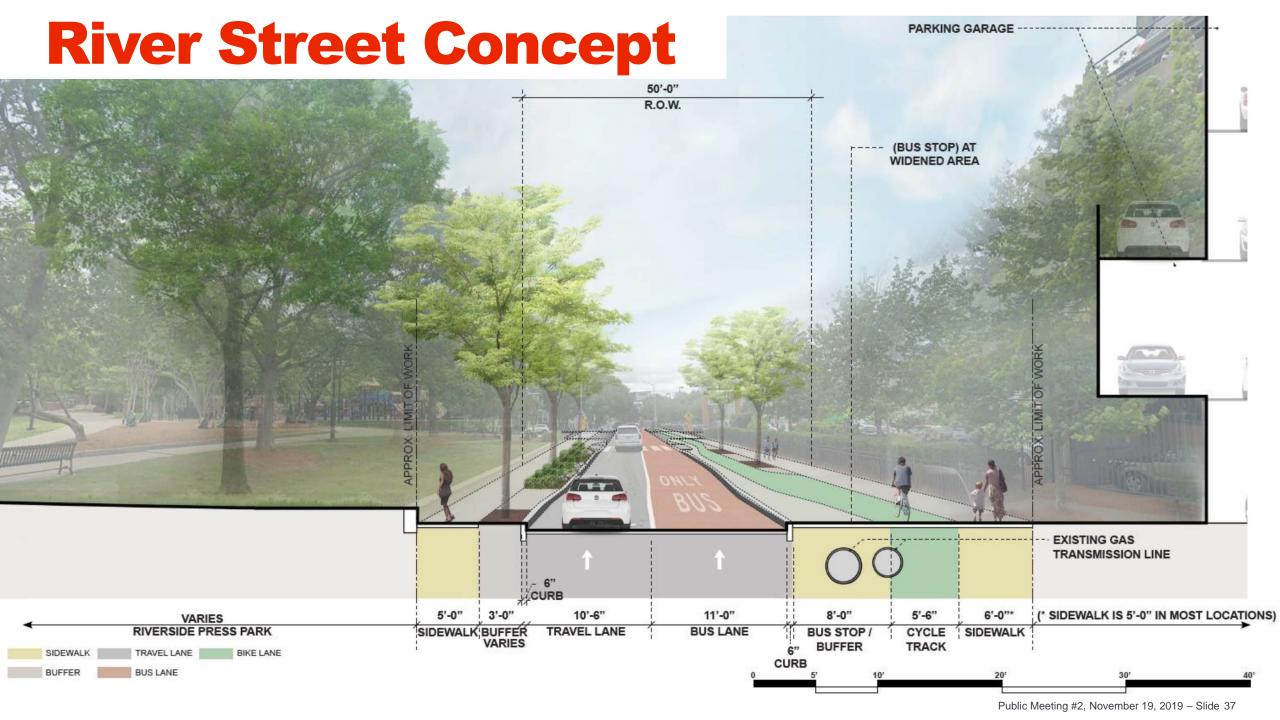


Extending the Neighborhood Feel



River Street Today





River at Putnam: The impact of signal timing

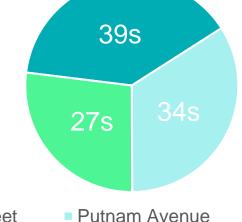
- Signals influence how many people get through an intersection
- Today's "exclusive" pedestrian phasing increases delays for all users
- In the future, "concurrent"
 pedestrian phasing could help
 move everyone through with less
 delay (people walking, biking,
 taking the bus, and driving)

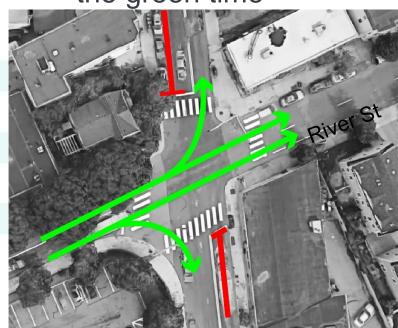


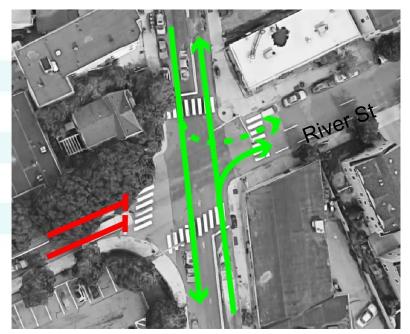
Today's signal timing at Putnam limits all users of River St.

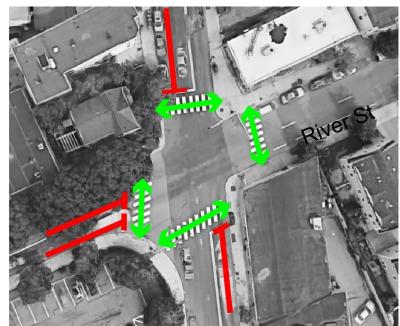
• 3-phase signal, total 100-second cycle time

 The "all-stop" or exclusive pedestrian phase forces pedestrians to wait longer to cross (up to 73 seconds), and limits how many vehicles can get through during the green time





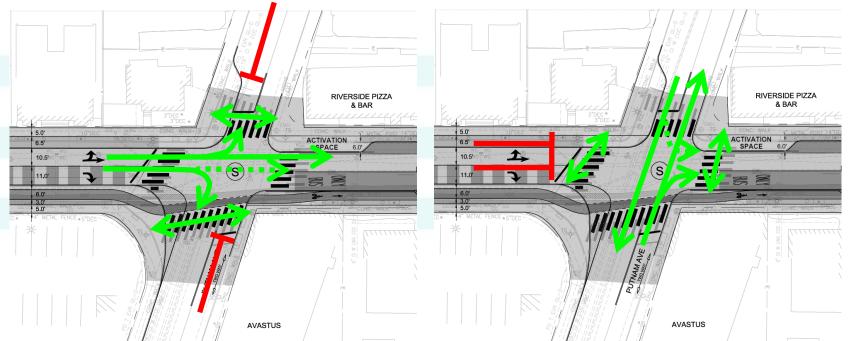




Pedestrian

Concurrent phasing at Putnam Avenue could "open the valve"

- **2-phase signals** are more efficient for everyone
- What about safety?
 - Concurrent (pedestrians cross with parallel traffic) with 4-7 second pedestrian head start (Leading Pedestrian Interval)
 - Safety is improved with shorter crossing distances and better sightlines

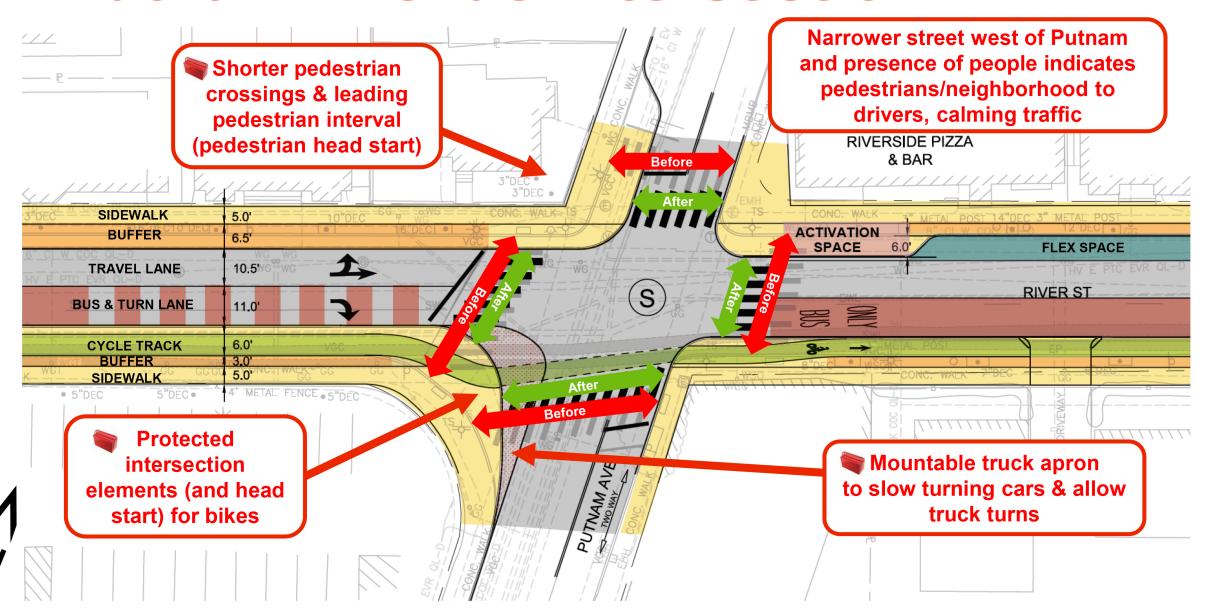


River StreetPutnam Avenue

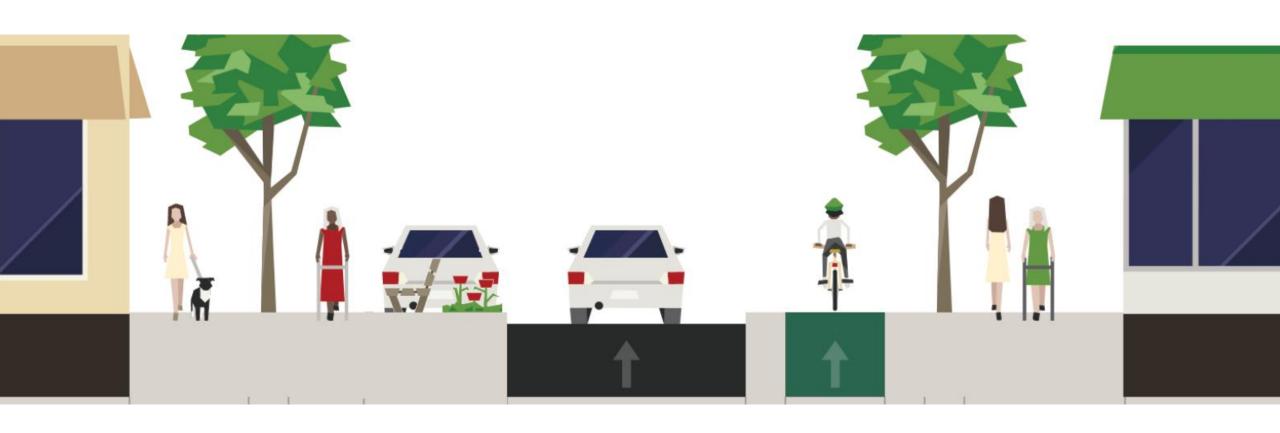
Pedestrians cross concurrently with traffic in an intersection with a safer geometry



Putnam Avenue Intersection



One-lane east of Putnam Avenue?



One-lane east of Putnam Avenue?

Pros

- 4' to 6' additional for activation/buffer on north side
- Shorter pedestrian crossings
- Wider bicycle facility/wider buffer
- Easier bicycle facility maintenance

Cons

 Requires raised bikeway to be mountable (for emergency vehicle access) making illegal parking/stopping/loading likely

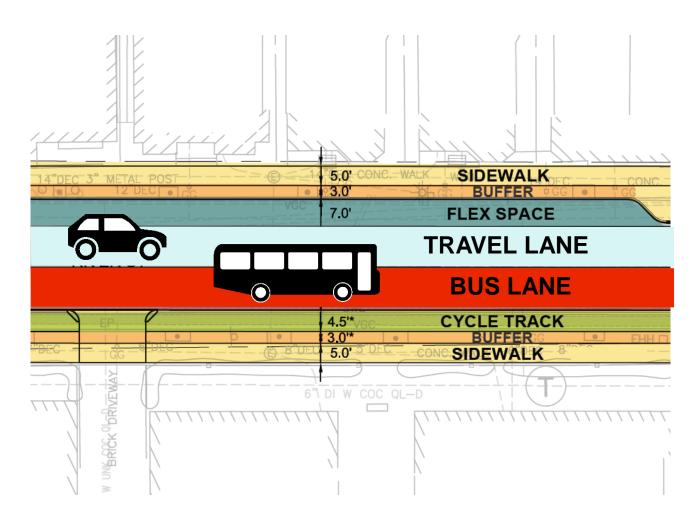


Rendering of Beacon Street cycle track (Somerville)

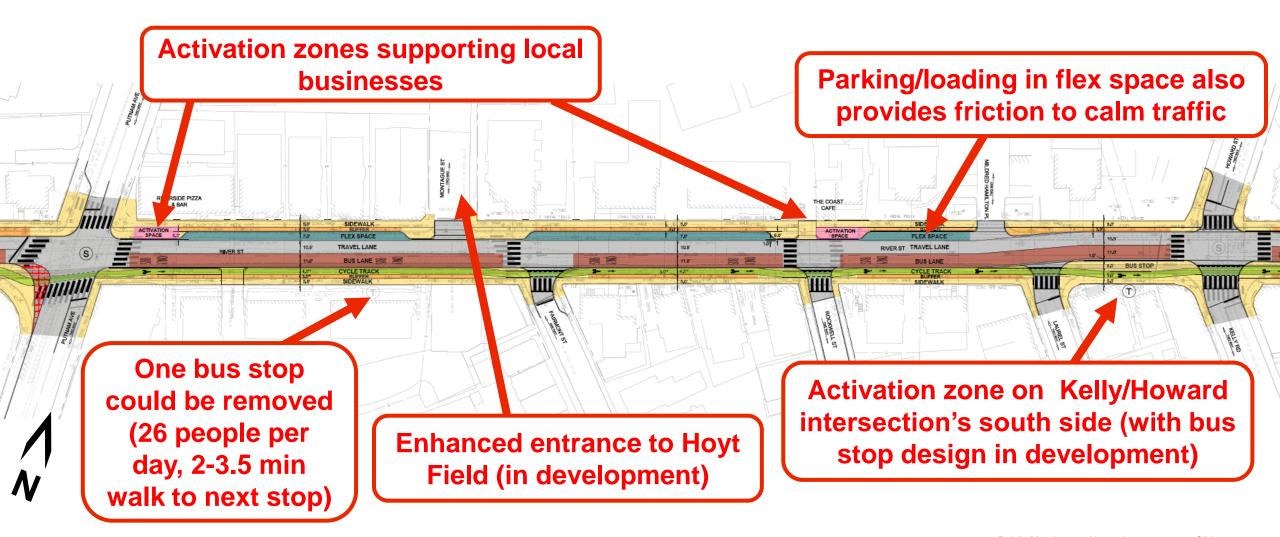
- Buses would experience same congestion as general vehicles
- Street/utility repairs would block entire street
- Routine operations including trash collection and street sweeping would block street
- Maintaining clear width and mountable feature would be challenging during and after snow events

East of Putnam Avenue to Franklin Street

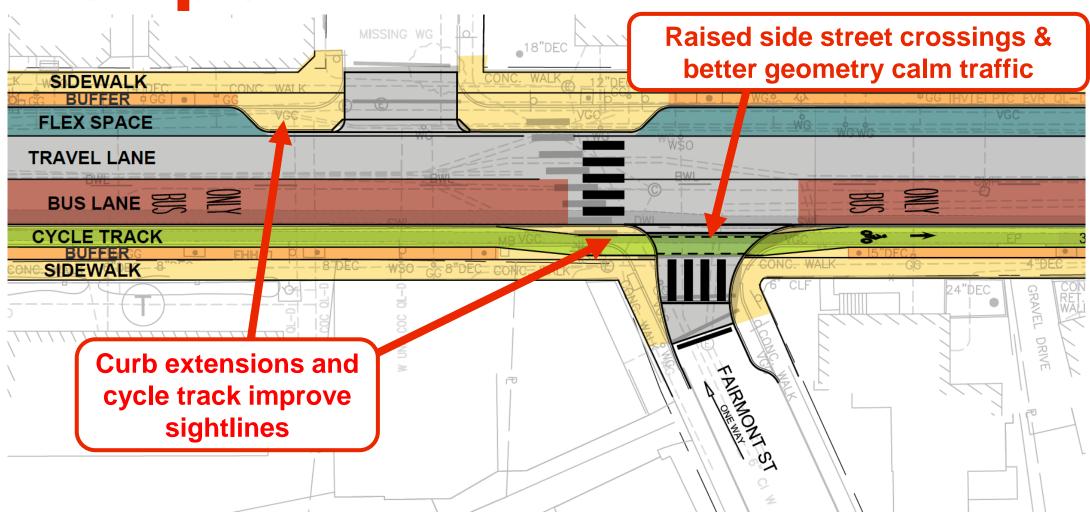
- One general use lane accommodates existing traffic (encouraging slower speeds)
- Minimal queuing at Kelly/Howard Street signal
- Bus lane improves bus reliability and reduces delay
- The bus lane provides flexibility for maintenance, trash operations, etc.



Putnam Avenue to Kelly Road/Howard Street

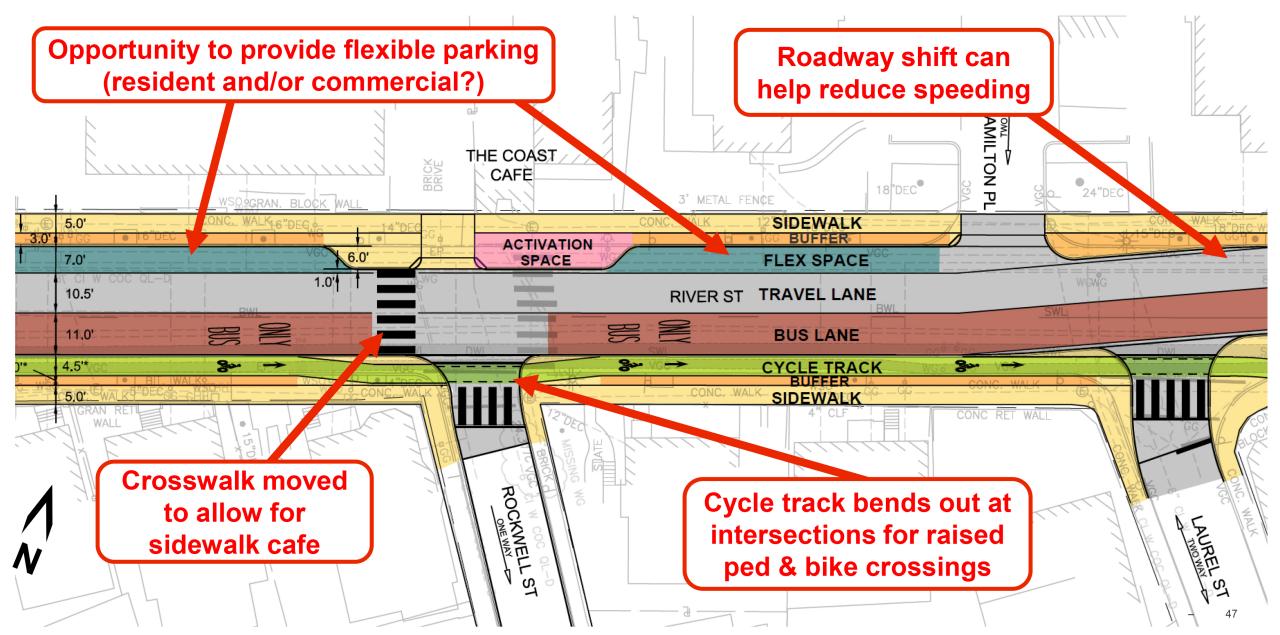


Intersection Improvements Example





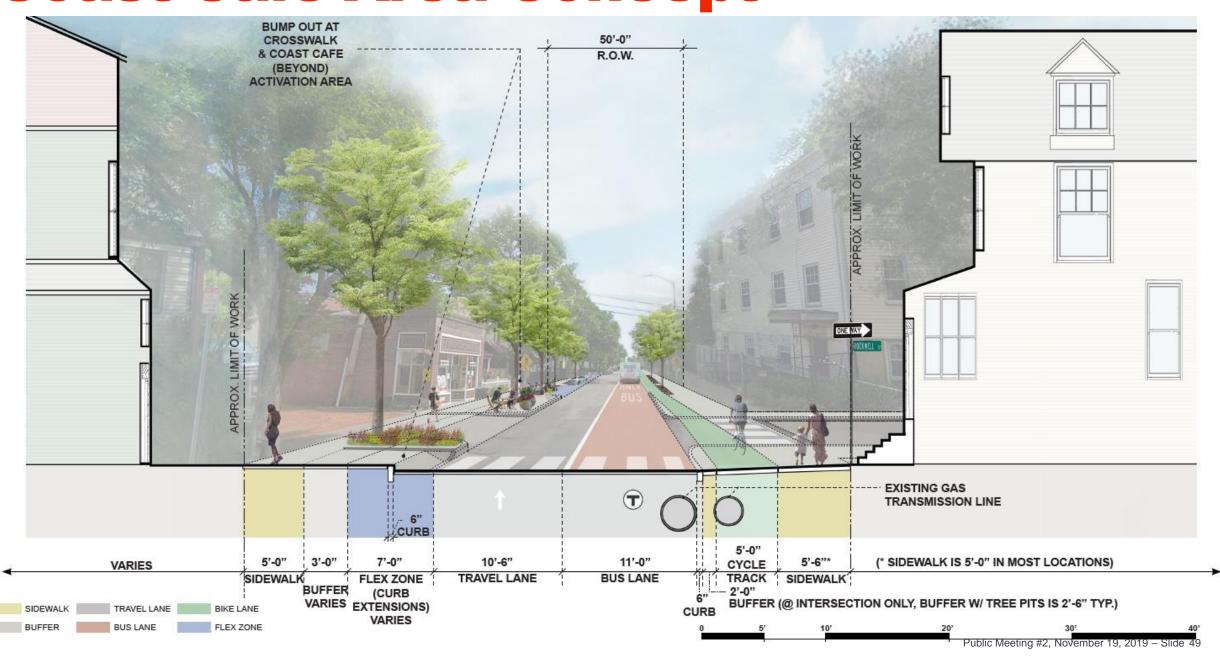
Coast Café Area



Coast Café Area Today



Coast Café Area Concept



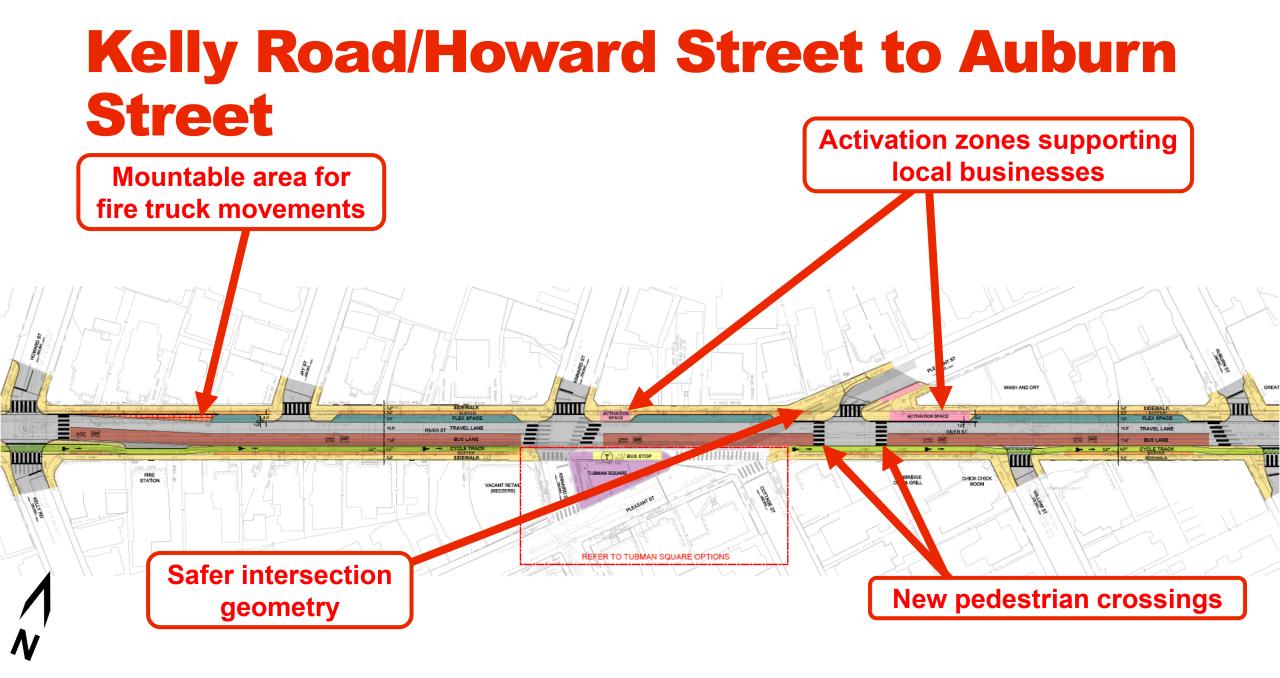
At Howard Street/Kelly Road

Existing signal not warranted based on traffic volumes, but signal serves other important needs:

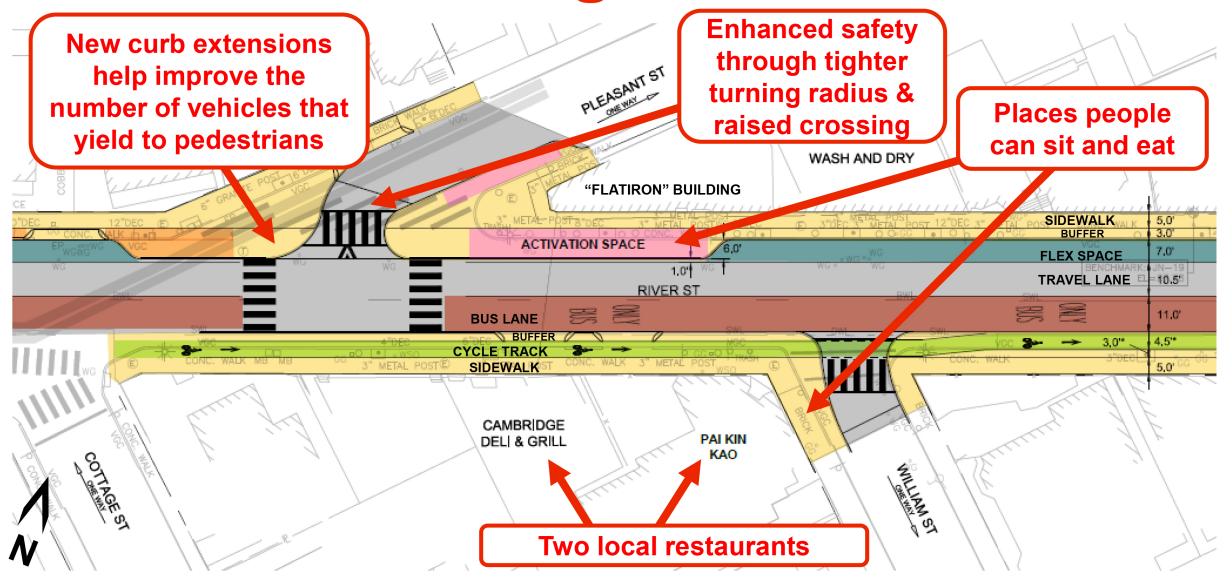
- Provides signalized pedestrian crossing on the Amigos School's designated Safe Route to School
- Critical for safe Fire Department operations
- Could help mitigate traffic changes with one of two Tubman Sq. options







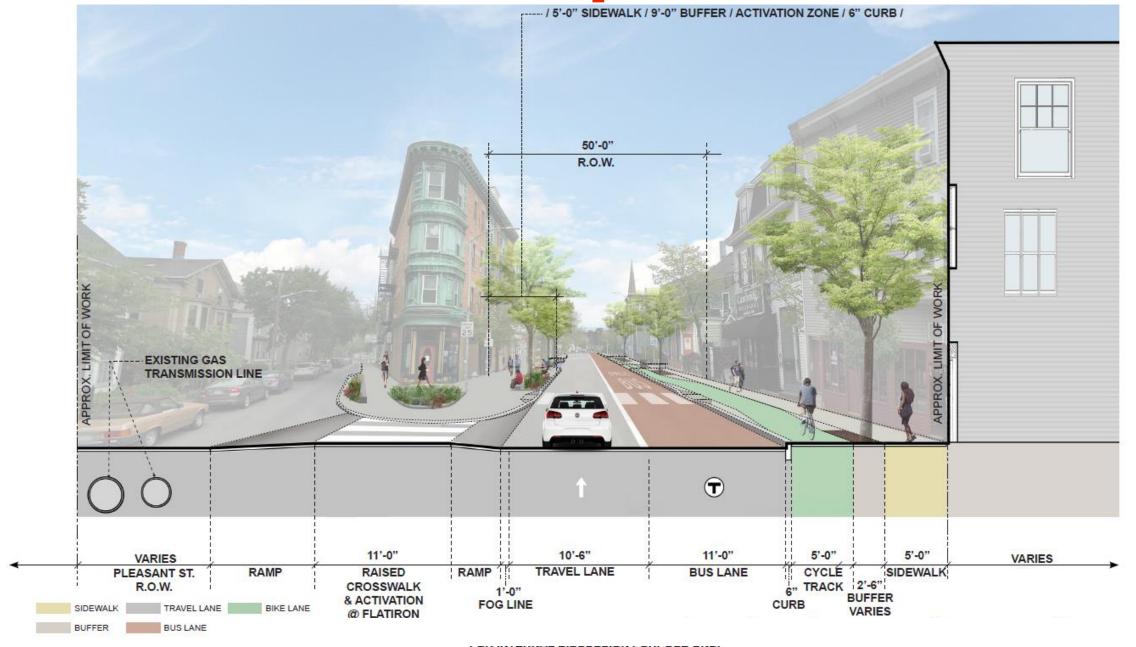
"Flatiron" building area



"Flatiron" Building Area Today



Flatiron Area Concept



Tubman Square Ideas



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Concept 1: Pleasant Street Plaza

- Pleasant Street as shared street/local driveway access only
- Minimal traffic diversions
- Parking impacts
 - 7 unregulated
 - 1 accessible



Street closure



Raised side street crossing



Concept 2: Kinnaird Street Closure

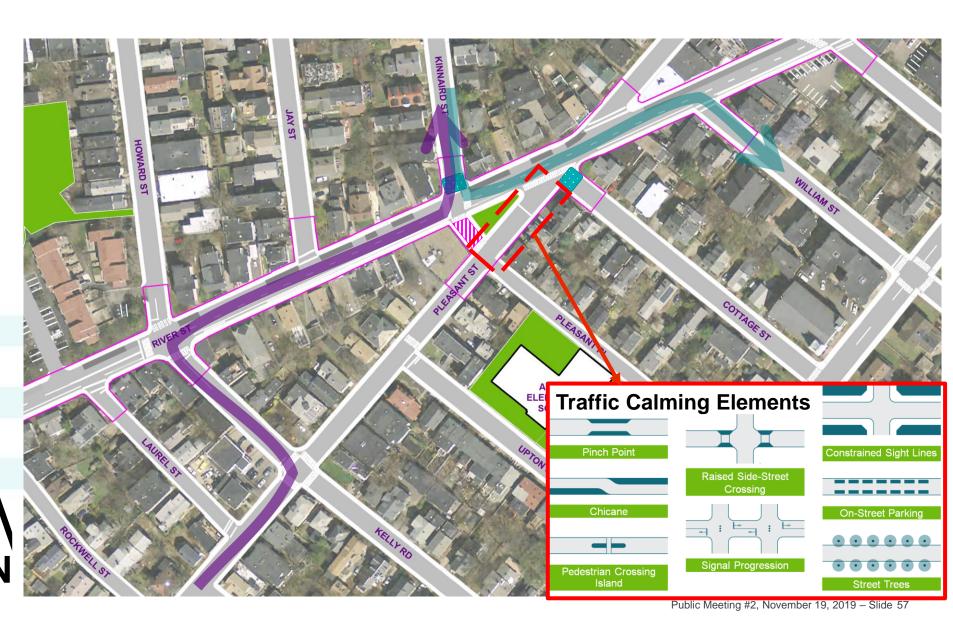
- Close Kinnaird Street
- Traffic calming on Pleasant Street
- Traffic diverted through Howard Street/Kelly Road intersection
- Parking impacts
 - 2 unregulated

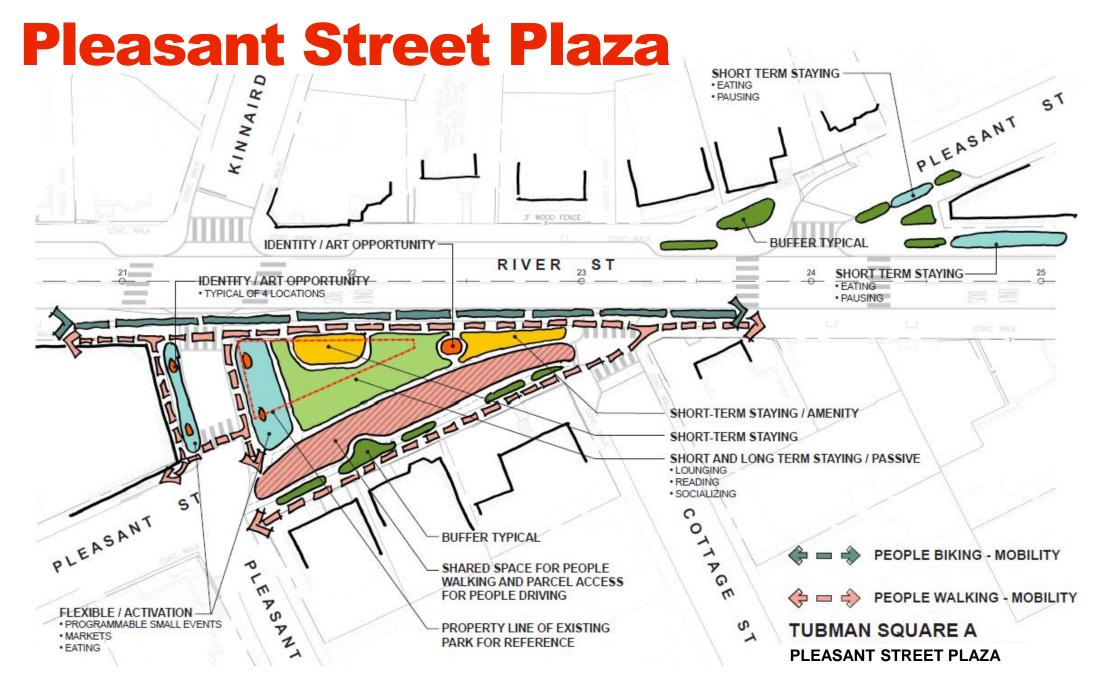


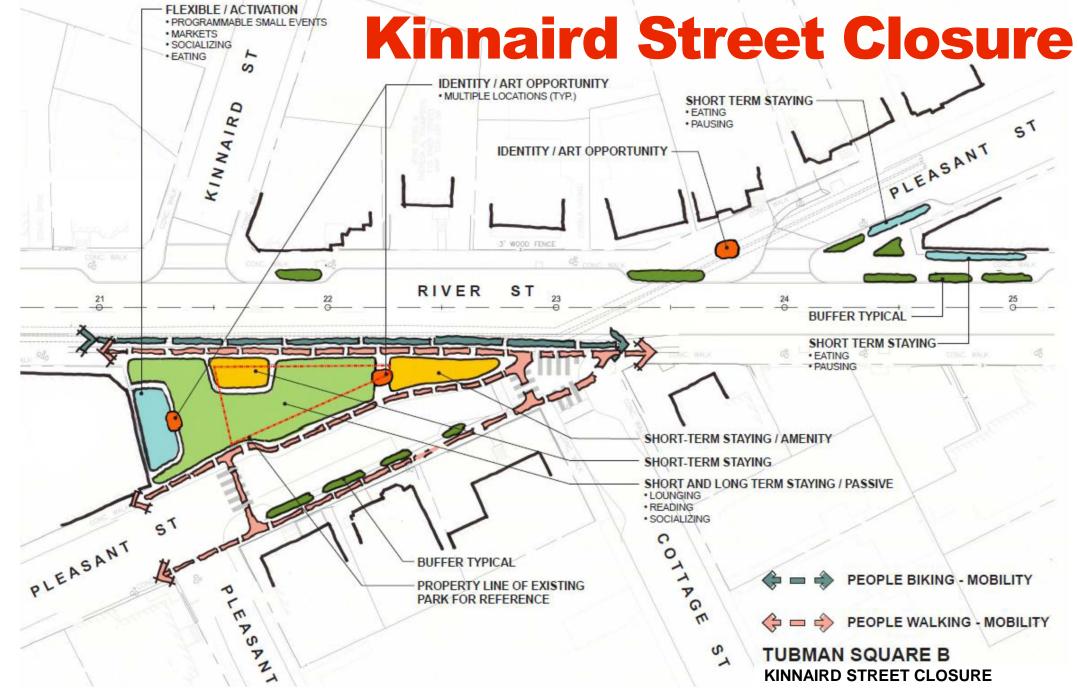
Street closure

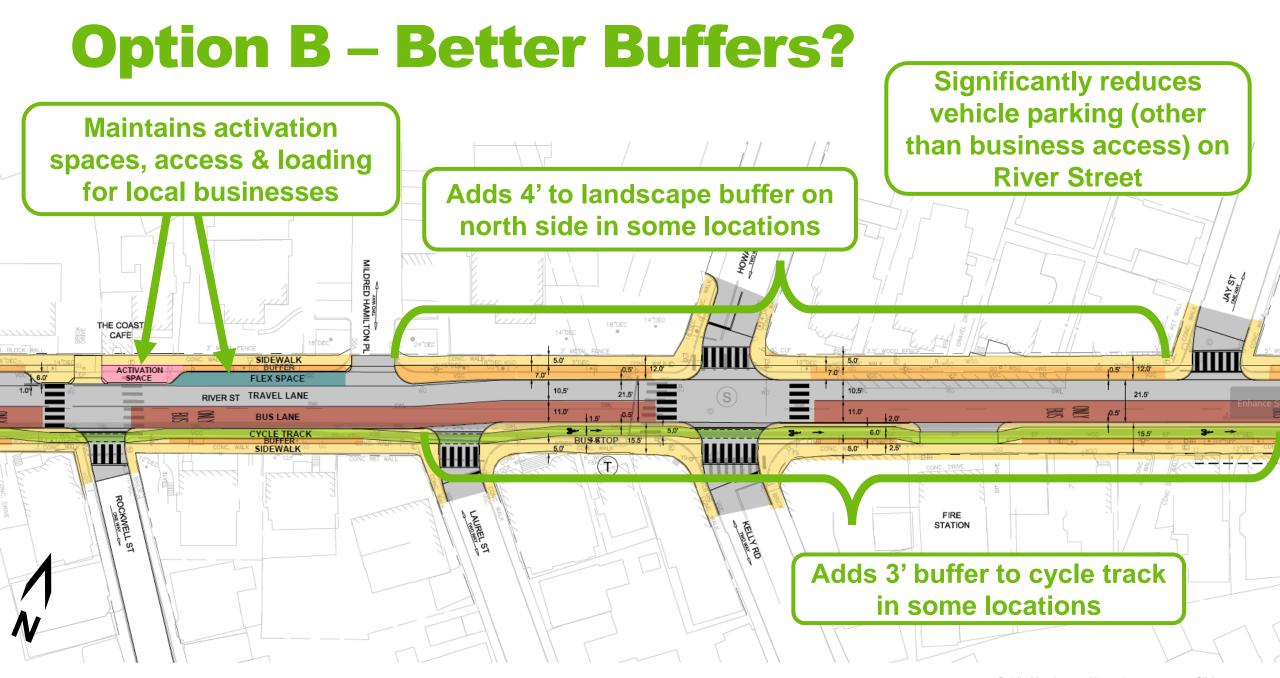


Raised side street crossing









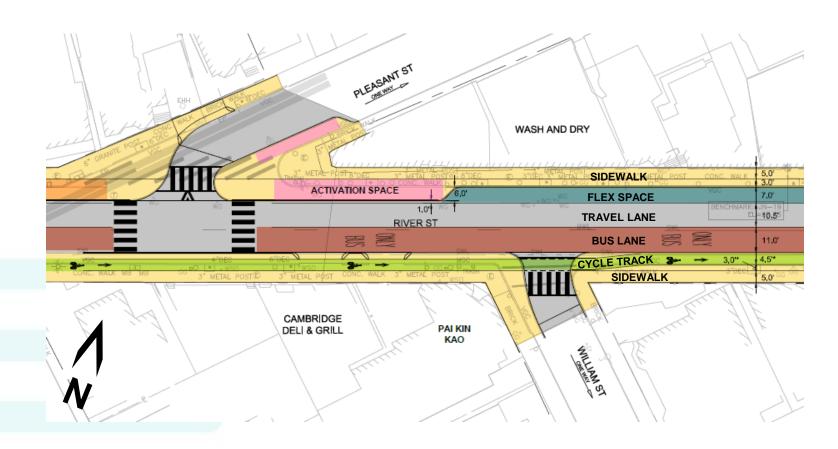
Summary of Pedestrian Safety and Comfort Features

- Raises un-signalized side-street crossings
- Narrows turning radii on most intersections to slow down turns
- Improves visibility at intersections
- Adds to the tree canopy and increases vertical elements
- Moves general traffic in a single lane
- Adds two new crosswalks

- Reduces potential travel speeds with single general purpose lane
- Provides an increased buffer between traffic and people walking and biking (except buses and righthand turns)
- Simplifies ADA compliant crossings
- Provides more space for people to sit, providing a more neighborhood feeling

Design Goals – How are we doing?

- Safe
- Inclusive
- Human Scale
- Ecological
- Multimodal
- Activated
- Resilient

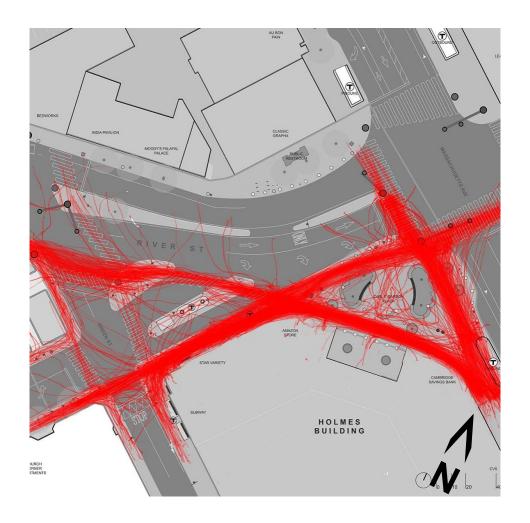




Detailed Comments on Draft Concept

Visit the Carl Barron Update Table!

- Activity Mapping
- Movement Tracking
- Existing and Proposed Uses of the Plaza



Flexible Curbside Space



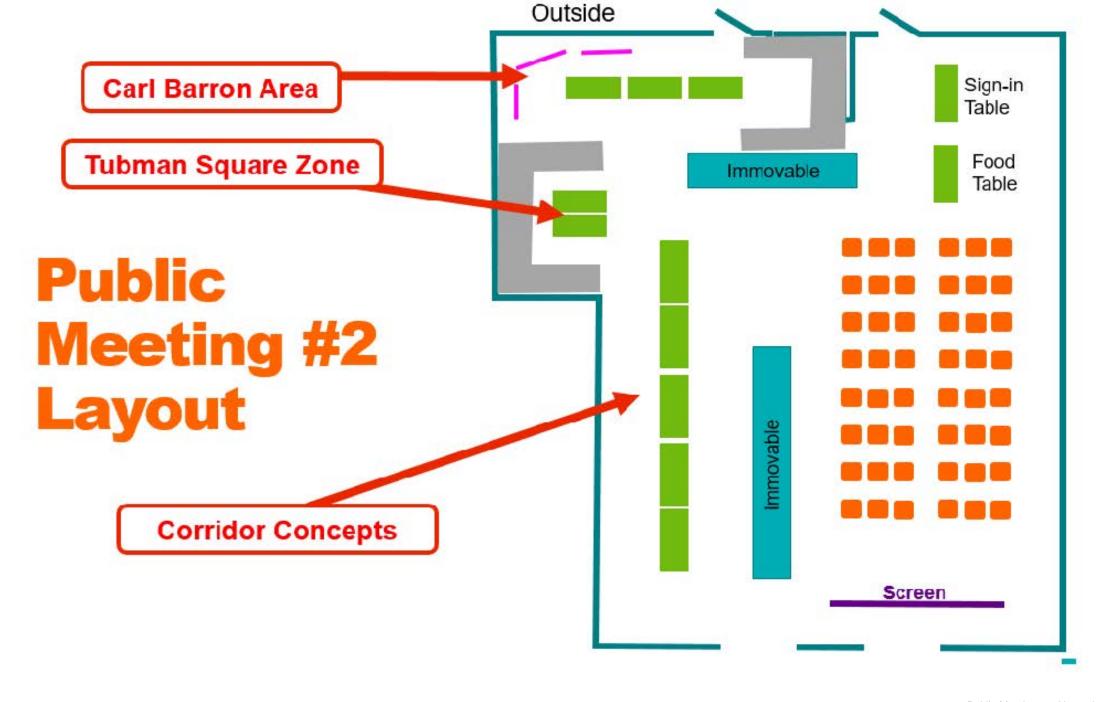
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Greening	Enhances aesthetics and environmental health	Plantings, rain gardens, bio-swales, green infrastructure
Mobility	Moves People & Goods	Sidewalks, bus lanes, bike lanes, travel lanes, turning lanes
Storage (less than 24-hour)	Provides storage for vehicles and equipment	Bus layover, private vehicle parking, reserved spaces (police, govt., etc), construction needs.

Ask questions and use sticky notes to tell us what you like/don't like about the draft concepts





Share additional ideas that you think are still missing



THANK YOU!

riverstreet@cambridgema.gov