

# **Belmont Community Path Phase 2: Clark Street Bridge** to Waltham Line

Technical Expertise With a Personal Approach!

> **Community Forum #1** May 18, 2023

Town of Belmont, MA





# Agenda

1.	Introduction	Russell Leino and Holly Mus
2.	Project History	Amy Archer, Pare
3.	Scope & Schedule	Amy Archer, Pare
4.	Public Engagement	Kathleen Fasser, Toole
5.	Data Collection	Amy Archer, Pare
6.	Evaluation Criteria	Kathleen Fasser, Toole
7.	Draft Recommendation	Amy Archer, Pare
8.	Questions and Feedback	In-person and Virtual Attend
9.	Next Steps	Amy Archer, Pare

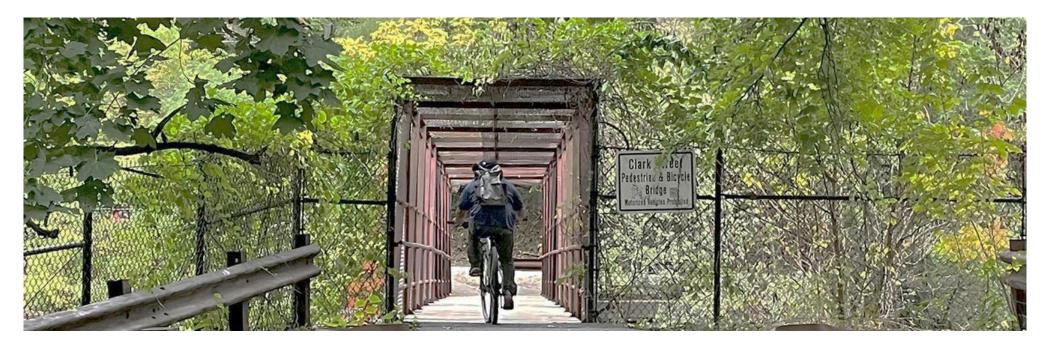




# **Meeting Logistics**

- Please provide feedback after the presentation.
  - You will find information on how to give feedback at the end of the presentation.
- Q&A function is open for comments during the presentation and will be addressed at the end of the presentation
- Cameras + microphones
  - Your camera is on
  - We will enable your microphone only when you are speaking after the presentation

Please note that this public meeting will be recorded and the recording will be posted online shortly after.





# Path History

- > 1994: With potential for funding, the BOS formed the **Bikeway Planning Committee**
- > 1997: Proposal for a multi-use path through Belmont started to advance as part of the Mass Central Rail Trail (MCRT)
- > 1997: Wallace Floyd Group prepared the Belmont Bikeway **Preliminary Feasibility Analysis**
- > 1998: MCRT was stalled due to lack of funding and lack of participation from communities along route; some communities including Cambridge proceeded independently
- > 2010: Construction began on Fitchburg Cutoff Path; DCR signed 99-year lease for abandoned CMRR corridor (Waltham to Berlin)

- by Metropolitan Area Planning Council (MAPC)
- > 2012: BOS elected CPAC to review previous efforts,
- recommendations
- > 2019: Design of Phase 1 began by Nitsch



# > 2012: Belmont Bikeway Trail Alignment Study conducted

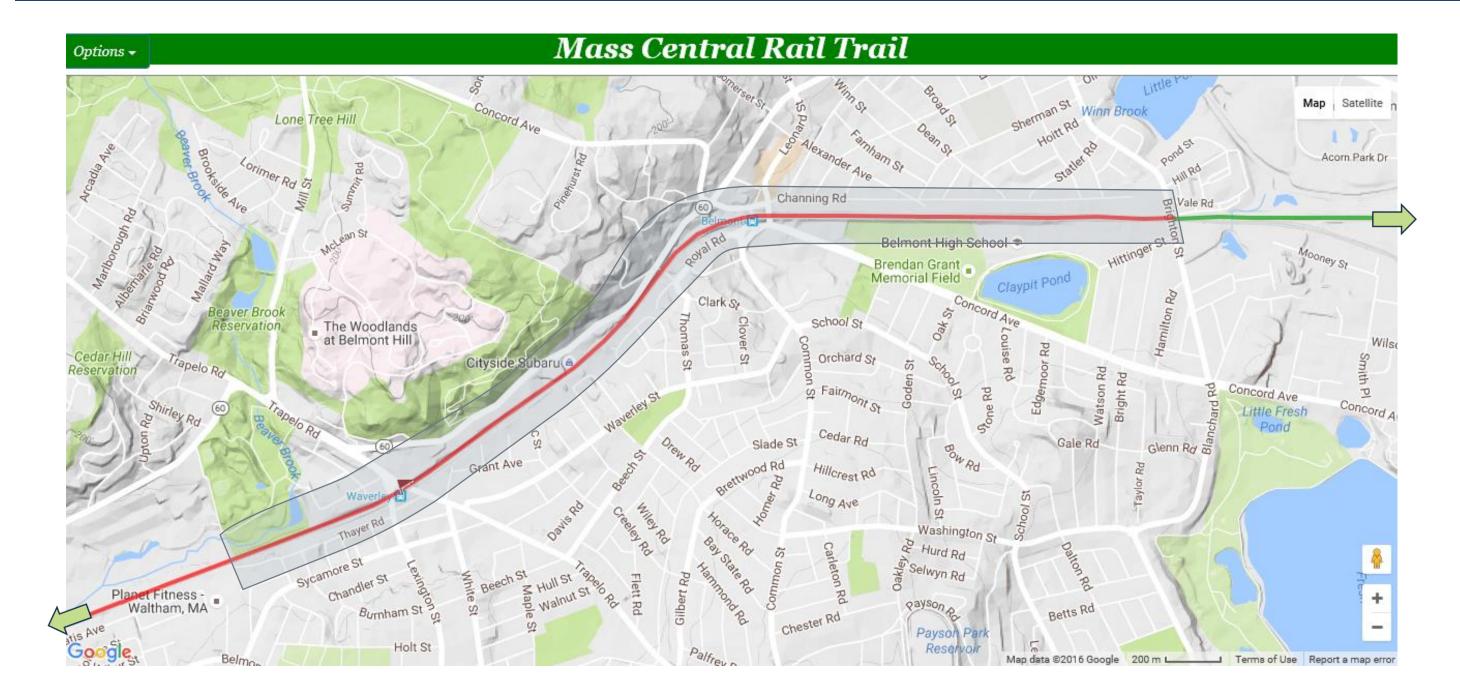
obtain public input and recommend alternatives for path

> 2014: CPAC delivered final report and recommendations

> 2016: BOS elected CPIAC to enlist and facilitate the use of the Pare consultant team to evaluate the proposed

> 2017: BOS endorsed the recommended route from the Feasibility Study prepared by the Pare consultant team

## Path History – MCRT Route



104 miles  $\rightarrow$  connecting 24 communities  $\rightarrow$  Boston to Northampton



# Path History – Phase 1



- > Extends from the Fitchburg Cutoff Path to the Clark Street Bridge
- > Runs along the north side of the rail
- > Makes connections to Belmont Center, the Middle/High School and through the campus to Concord Avenue
- Completed 25% Design Submission (2021)
- > Programmed on FFY2026 TIP for \$21M with Boston Region MPO support (2022)



## **Project Scope**

### **Goal Focused Design**

- Practicability/constructability review
  - Changes to Existing Conditions since Feasibility
  - Borings/Geotechnical Analysis
- Surveying
  - Determined Route
  - MassDOT Standards
- Trail, Landscape and Structural Design
  - Cohesive product
  - Accessibility to all users
- Funding, Agency Coordination and Construction Administration
  - Assisting all elements of project through completion

### A. Recommendation of Final Alignment

B. Preparation and Submittal of Project **Initiation Form** 

D. Existing Conditions, Survey, and Information Gathering

E. Preliminary Design and Design Development

F. Final Design and Construction Bid **Documents** 

G. Construction Oversight



C. Public Engagement

## **Project Schedule**

## Town of Belmont - Belmont Community Path Phase 2

		2023																					2024									
Task		Jan	Fe	ab	Mar	A	pr	May	y	Jun		lul	Au	g	Sept	Oc	t	Nov	D	ec	Jan	F	eb	Ma	ar i	Apr	N	lay	Jun	J	lul	Aug
Project C cordination with Town/CPPC			C		C			X		C				X		C		C			)	(			C			X		C		C
Task A - Recommendation of Final Alignment																$\square$				$\square$											$\square$	
Task B - Submit for Mass DOT Funding																$\square$													$\square$		$\square$	
Task C - Public Engagement																														Τ	$\square$	
Kick-off/Scoping Meeting	X																														$\square$	
Finalize Public Engagement Plan (PEP)																$\square$				$\square$											$\square$	
Public Engagement During Task A - Alts Analysis			X					X						Т					Τ			Τ					Т					
Public Engagement During Task E - Prelim Design														X								X									$\square$	
Public Engagement During Task F - Final Design																$\square$													X		$\square$	
Task D - Land Survey and Existing Conditions																															$\square$	
Existing Conditions Survey (ind. ROW)			$\square$													$\square$				$\square$											$\square$	
Field Verification (critical areas)																				$\square$										$\top$	$\square$	
Document Review																															$\square$	
Detailed Field Work (3 field visits)			$\square$													$\square$				$\square$											$\square$	
Task E - Preliminary Design																$\square$													$\square$		$\square$	
Preliminary Design Plans (approx 9 sheets)			$\square$																												$\square$	
Early Environmental Coordination (EEC/CE)																Π													$\square$		$\square$	
Preliminary Cost Estimate			$\square$													$\square$															$\square$	
Task F - Construction Plans, Specs and Estimate			$\square$													$\square$															$\square$	
75% De sign Plans (approx 9 sheets)																$\square$																
75%Cost Estimate			$\square$													$\square$			$\top$	$\square$				$\square$								
75% Specifications (job specific)																													$\square$		$\square$	
100% Design Plans (approx 9 sheets)			$\square$													$\square$			$\square$	$\square$											$\square$	
100%Cost Estimate			$\square$						+	+			$\neg$	+		$\square$		+	+	$\square$	+	+					+	+		+	$\square$	+
100% Specifications (job specific)																				$\square$											$\square$	
Regulatory Permits and Approvals			$\square$						$\top$					$\uparrow$		$\square$		$\top$	$\top$	$ \uparrow $	$\top$											
Bid Procedure (ind. mtg)		$\top$				1		$\uparrow$	$\top$	$\top$	$\square$		$\neg$	$\uparrow$		$\square$	$\uparrow$	$\top$	$\top$	$\square$	$\top$	$\top$	$\top$				T					
Task G - Construction Oversight								Ì																	Ì						Π	

### LEGEND



Conference Call

- Pare Progress
- Town/Agency Review



### Town of Belmont Community Path Phase 2 Design



2025 Jan Feb Mar Apr Spring Sept Oct Nov Dec X C C C X Х X

# **Public Engagement**

## **Public Engagement Plan**

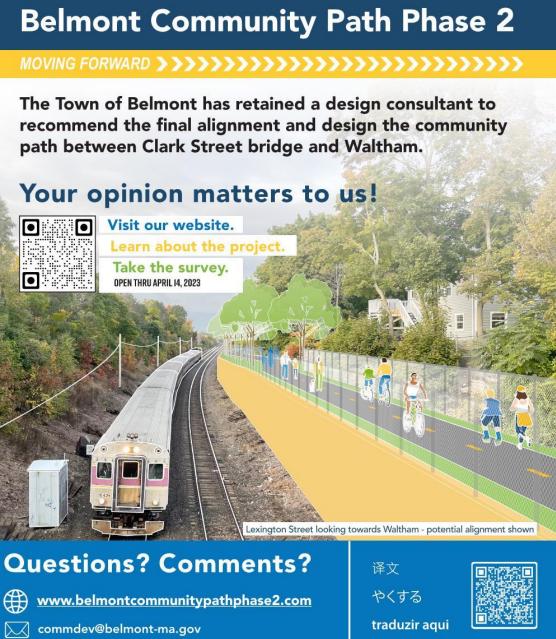
• Goal

Consult with the Public to obtain feedback on project analysis, alternatives, or decisions

- Partner with Select Board, MassDOT, MBTA
- Strategies
  - March 22<sup>nd</sup>
    - Website
    - Initial outreach
    - Online public survey Open thru April 14<sup>th</sup>
  - Pop-up event March 25<sup>th</sup>
  - Receive direct emails
  - Focus groups meetings (ongoing)
  - Public meetings (1<sup>st</sup> tonight)
  - Select Board Meetings (CPPC)









(617) 993-2666

Office of Community Developmen 19 Moore Street Belmont, MA 02478

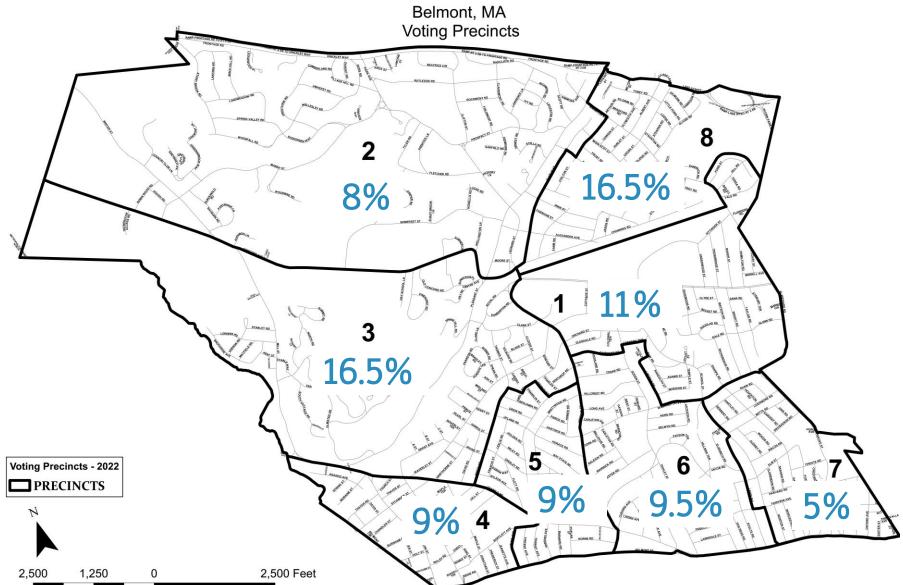


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## Who Responded?

- 622 total responses
- 48% female, 46% male, 1% gender nonconforming or nonbinary
- 80% live in Belmont, 28% commute through Belmont
- Approximately 30% responded that they have a disability that makes it challenging to get around
- 56% responded that they identify as a race other than white





### Town of Belmont **Community Path Phase 2 Design**

## **GREAT RESPONSE!**

## Path Use

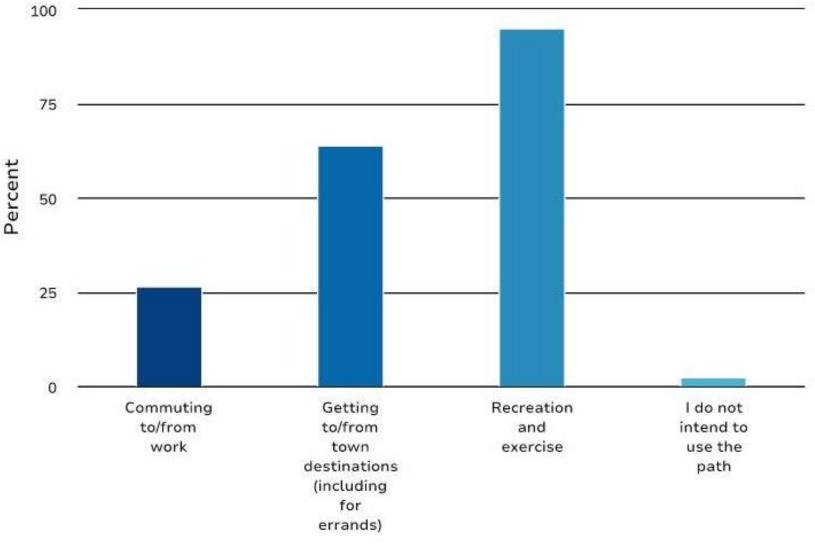
- Parking
  - 71% Never
  - 25% Sometimes/occasionally
  - 4% Always need parking
- Shoulders
  - 71% Don't have a preference
  - 23% 3' should on both sides
  - 7% 4' one side/2' other side
- Buffer from railroad tracks
  - 43% Will use it regardless

CORPORATION

D E S I G N

- 30% Glad it will be separated
- 24% Planted buffer

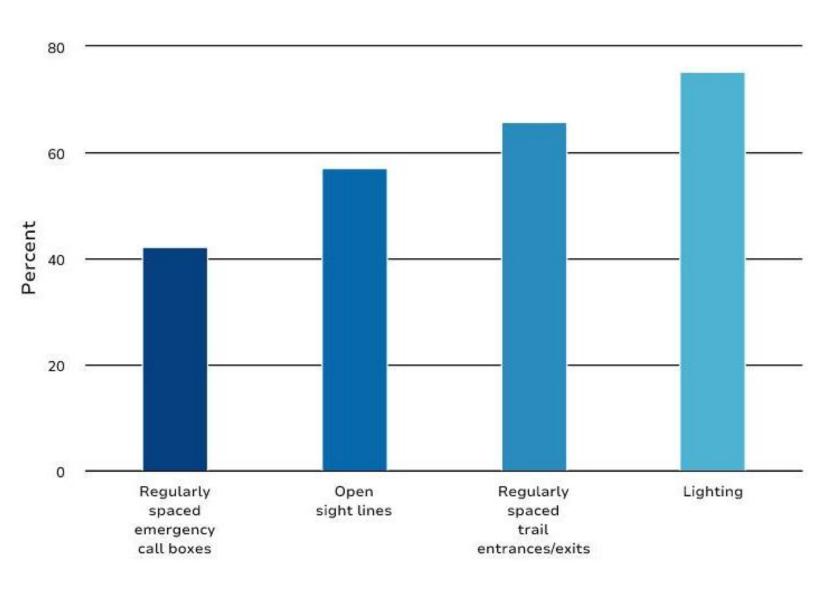
## I intend to use the path for:



## Path Use

- 25% concerned with sun exposure
- Wayfinding
  - 78% To community destinations
  - 76% Cross streets
  - 48% Mile markers
  - 65% Maps
  - 41% Interpretive signage
  - 29% Trail identity/branding

## **Elements that would increase sense of security:**

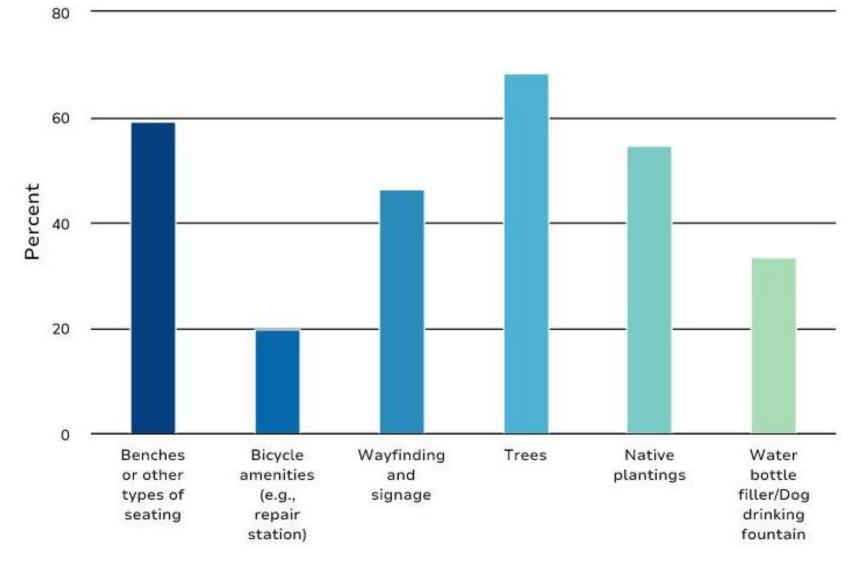




## Amenities

- 75% regularly spaced benches
- Bicycle amenities
  - 71% Bicycle racks
  - 50% Repair stations
  - 22% Covered bicycle parking
  - 12% Should not be any

## What amenities would you like along the path?

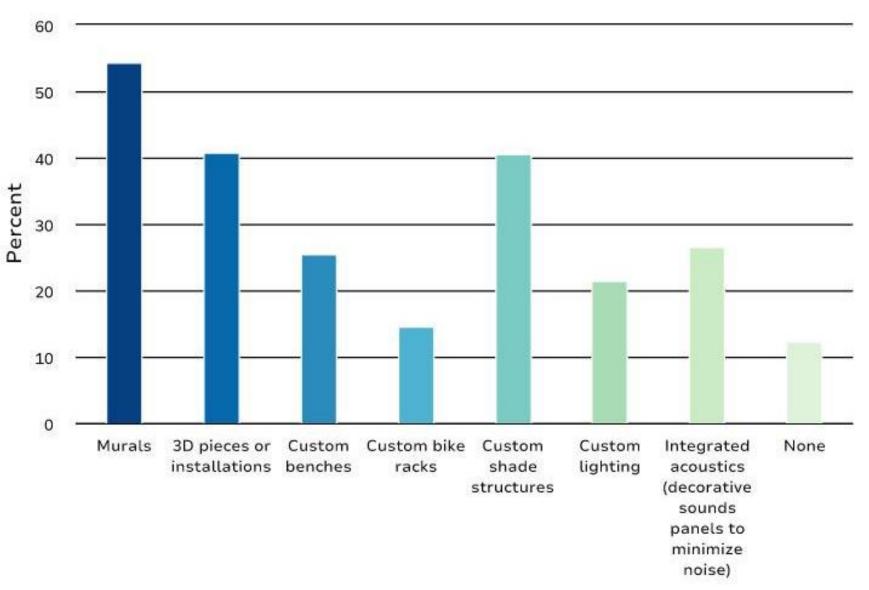




## Character

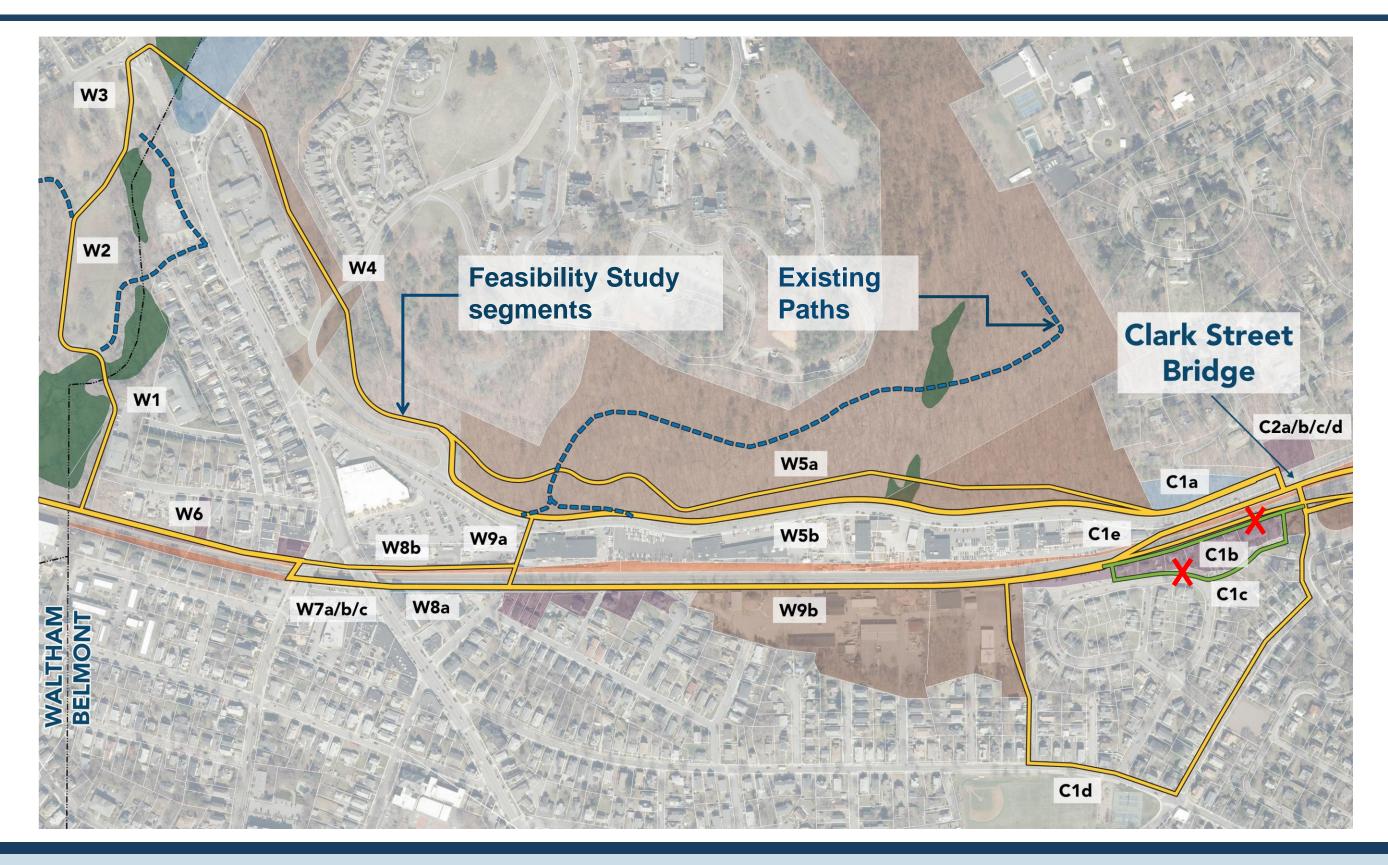
- Style amenities
  - 25% Don't have a preference
  - 23% Naturalistic
  - 22% Industrial
  - 16% Traditional
  - 11% Depends
- Style bridge (if required)
  - 58% Naturalistic
  - 27% Contemporary
  - 8% Traditional
  - 7% Industrial

## What types of public art (where space permits)?





## **Alternatives**





## **Operations**

- Conflicts along paper street
  - Commercial property access
  - Heavy vehicles
  - Sun glare at crossing location
- Shift through Star Market lot



## **Data Collection – Constructability Review**





# **Data Collection – Constructability Review**

## Subsurface Investigation – Boring Location Plan

- 8 borings performed along the MBTA Fitchburg Line by New England Boring Contractors.
- B23-7 and B23-8 are located at the proposed bridge abutments
- B23-2 and B23-9 were not drilled due to utility conflicts
- Borings were completed to depths between 25.5 and 65.5 feet below the existing ground surface





## **Data Collection – Constructability Review**

## Subsurface Investigation – Subsurface Conditions

Typical Subsurface Profile

Approx 1-7 inches of either PAVEMENT or TOPSOIL

Approx 3.5 to 27.5 feet of loose to dense FILL

Approx. 3.0 to 34.0 feet of medium dense to very dense COARSE DEPOSITS

Approx. 14.0 to 52.5 feet of loose to dense FINE DEPOSITS

Approx. 3.0 to 12.0 feet of medium dense to very dense WEATHERED BEDROCK

BEDROCK at approx. 19.1 feet at B23-8

- > Groundwater was observed at 2.0 to 10.0 feet below existing ground surface
- > Based on the observed subsurface conditions, it appears that the in-situ soils are not susceptible to liquefaction.
- > If COARSE DEPOSITS are encountered throughout the bridge footprint at the proposed footing elevation, the structure should be supported on a foundation using a factored bearing capacity of 3,500 pounds per square foot.

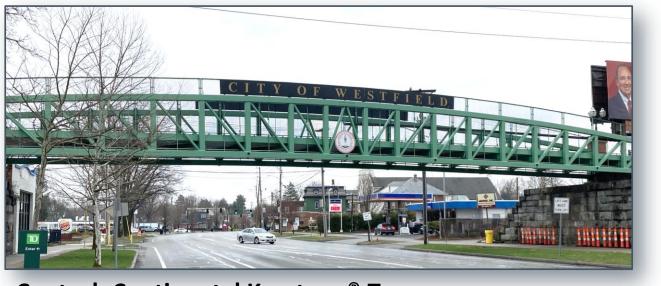


# **Bridge Superstructure Types**

## **Pre-Engineered Bridge Superstructures**



**Contech Continental Keystone® Truss** 



**Contech Continental Keystone® Truss** 



**Contech Continental Gateway® Truss** 

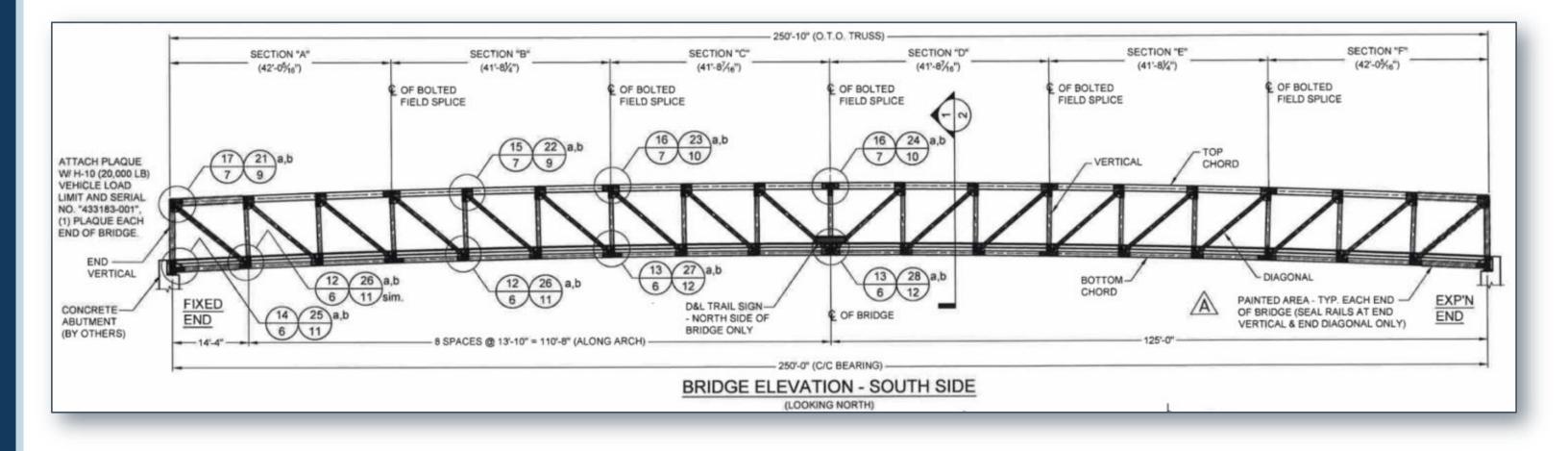


**U.S. Bridge Seneca Bow-String Truss** 



# **Bridge Superstructure Types**

## **Example Bridge Superstructure – Contech Continental Gateway® Truss**

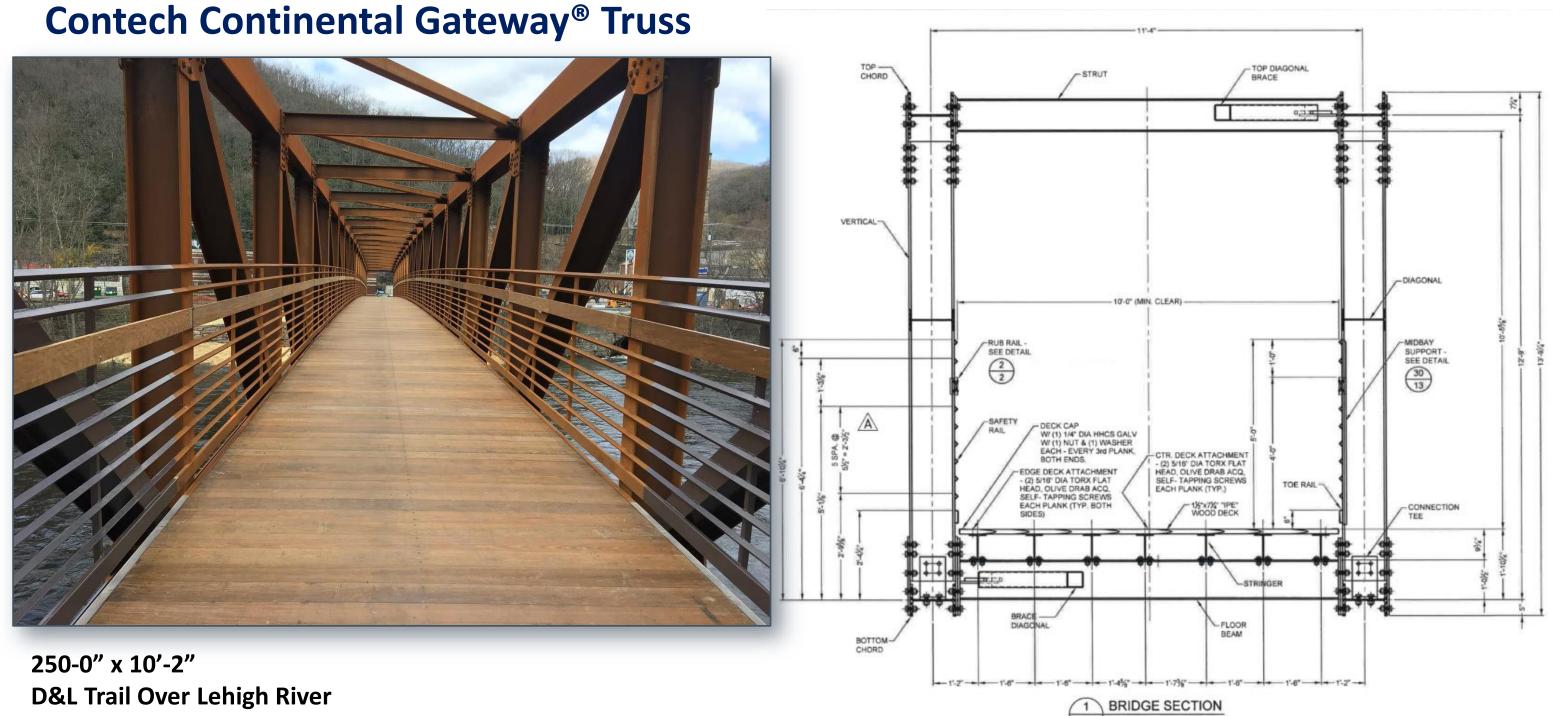


250-0" x 10'-2" **D&L Trail Over Lehigh River Pedestrian Bridge** Jim Thorpe, PA





# **Bridge Superstructure Types**



Pedestrian Bridge Jim Thorpe, PA



# **Retaining Wall Types**

## **Prefabricated Modular Block (PMB) Walls**



**Stone Strong Systems® Retaining Wall** 

Redi-Rock Retaining Wall



# **Retaining Wall Types**

## **Mechanically Stabilized Earth (MSE) Walls**



**Tensar ARES® MSE Retaining Wall System** 

Oldcastle MegaWall<sup>™</sup> MSE Retaining Wall System





- MBTA
- BHA Belmont Village
- DPW
- Fire Department
- Police Department
- MPO and MassDOT



# **Stakeholder Engagement**

## **Meetings Conducted with Each Entity**

- MBTA
- BHA Belmont Village
- DPW
- Fire Department
- Police Department
- MPO and MassDOT

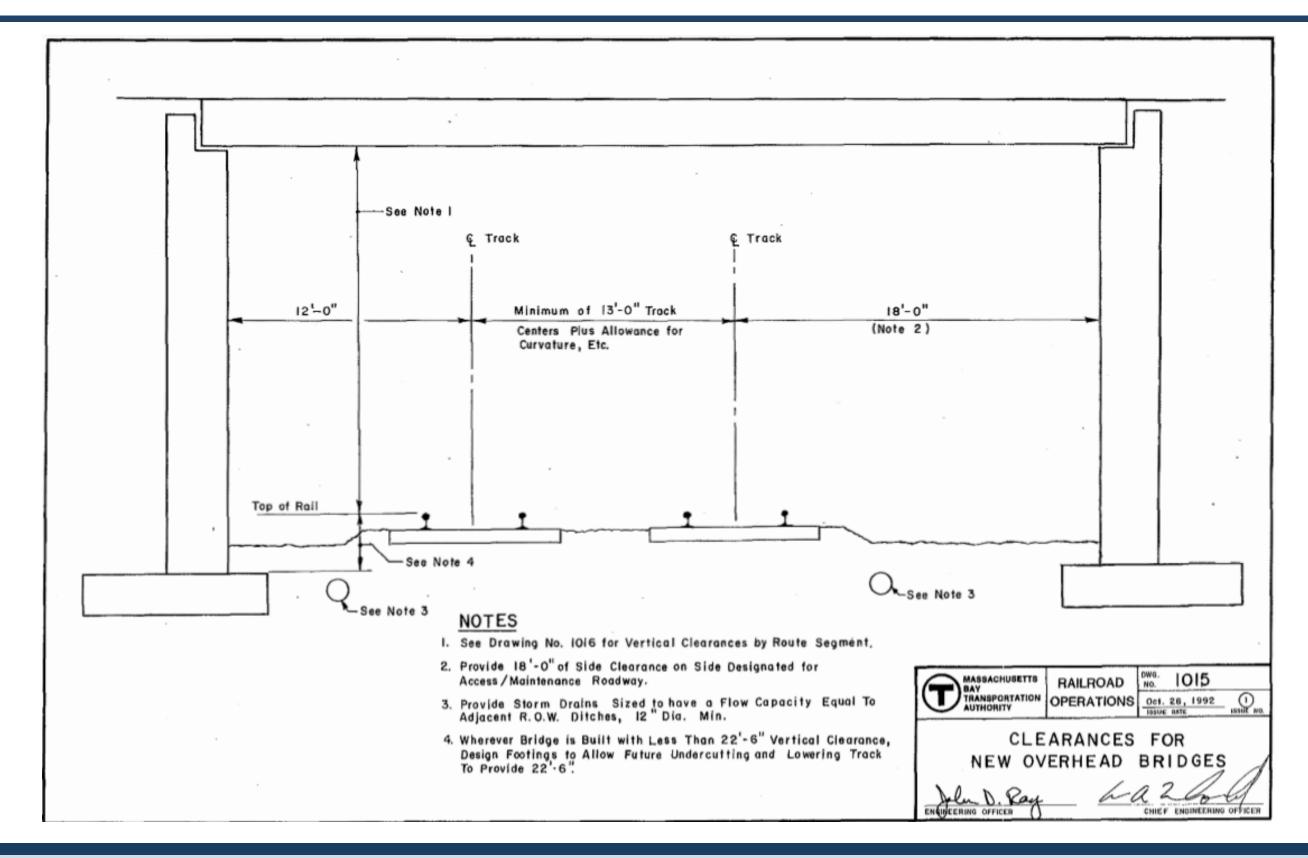
- Horizontal offset match detail
- Vertical clearance 22' 6" standard
- Single-tracking for construction may be possible



## Waverley Station – not currently identified

### as top tier priority, timeline uncertain

## **Stakeholder Engagement**





- MBTA
- BHA Belmont Village
- DPW
- Fire Department
- Police Department
- MPO and MassDOT

- Second priority behind Sherman Gardens
- 25% Design may follow BCP Phase 2
- Identified BHA office is beyond useful life



### Conservatively assume existing conditions

## **Stakeholder Engagement**





- MBTA
- BHA Belmont Village
- DPW
- Fire Department
- Police Department
- MPO and MassDOT

- Site walk conducted with CPPC and Town DPW
- DPW Staff confirmed that Path can be the rail



# accommodated at the rear of the lot along

- MBTA
- BHA Belmont Village
- DPW
- Fire Department
- Police Department
- MPO and MassDOT

- Provided access vehicle and associated turning movement information
- A path adjacent to an existing roadway provides continual access
- A route along the south side of the rail will need appropriate design, increases access to railbed
- A path in the wooded hills would be difficult to access



- MBTA
- BHA Belmont Village
- DPW
- Fire Department
- Police Department
- MPO and MassDOT

- A path in the woods would be less desirable
- Police take no exception to a path along the north or south side of the rail
- In agreement with difficulties of crossing
  - Pleasant Street in areas with poor visibility



## **Stakeholder Engagement**

## **FHWA Crossing Guidance**

### • STEP Analysis and Countermeasures

	Safety Issue Addressed Conflicts												
Pedestrian Crash Countermeasure for Uncontrolled Crossings	Conflicts at crossing locations	Excessive vehicle speed	Inadequate conspicuity/ visibility	Drivers not yielding to pedestrians in crosswalks	Insufficient separation from traffic								
Crosswalk visibility enhancement	Ķ	Ķ	Ķ	Ķ	Ķ								
High-visibility crosswalk markings*	Ŕ		Ŕ	Ŕ									
Parking restriction on crosswalk approach*	Ŕ		Ķ	Ķ									
Improved nighttime lighting*	Ŕ		Ŕ										
Advance Yield Here To (Stop Here For) Pedestrians sign and yield (stop) line*	Ŕ		Ŕ	Ŕ	Ŕ								
In-Street Pedestrian Crossing sign*	Ŕ	Ķ	Ŕ	Ķ									
Curb extension*	Ŕ	Ŕ	Ŕ		Ŕ								
Raised crosswalk	Ŕ	Ŕ	Ŕ	Ŕ									
Pedestrian refuge island	Ŕ	Ŕ	Ŕ		Ŕ								
Pedestrian Hybrid Beacon	ķ	Ŕ	Ŕ	ķ									
Road Diet	ķ	Ŕ	Ŕ		Ŕ								
Rectangular Rapid-Flashing Beacon	ķ		Ŕ	ķ	Ŕ								

E TOOLE

DESIGN

R

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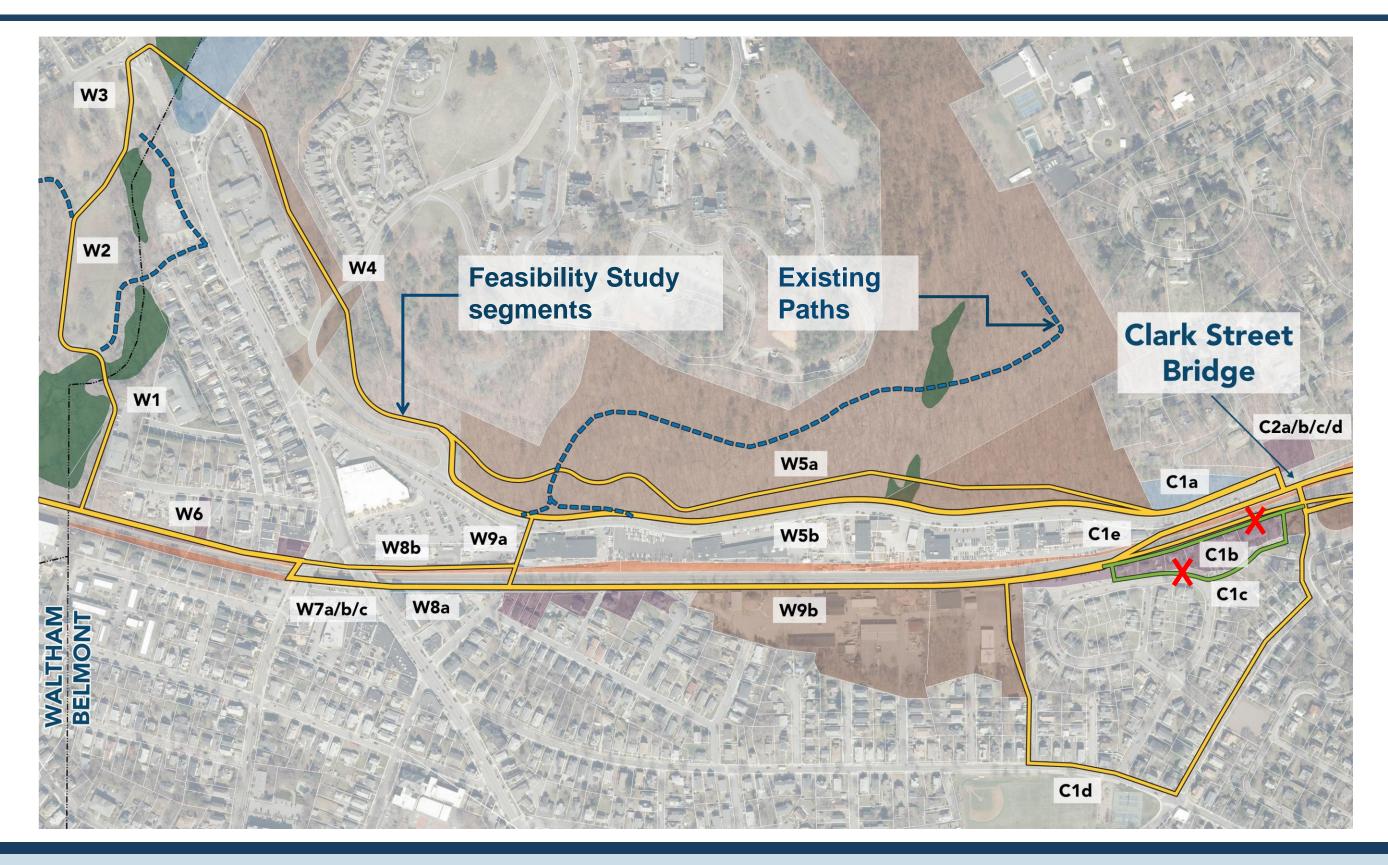
																											-
	Posted Speed Limit and AADT																										
		Vehicle AADT <9,000										le A	AD	r 9,	000	)-15	5,00	00	Vehicle AADT >15,00							00	
Roadway Configuration	≤3	≤30 mph 35				35 mph 😫			nph	≤3	0 mph		35	35 mph		≥40 mph			≤30 mph			35 mph			≥4	0 m	nph
2 lanes	0			0			1			0			0			1			0			1			1		
(1 lane in each direction)	4	5	6	7	5	6 9	0	5	6 0	4	5	6	7	5	6 9	0	5	6 0	4 7	5	6 9	7	5	6 9		5	6 0
		2	3	Ó		8	1		0	0		3	0		<i>6</i>	_		0	0		, 0	-		8	1		0
3 lanes with raised median (1 lane in each direction)	4	5			5			5	_	4	5			5	_		5	_		5			5	_		5	
, ,	0	_	-	7		9	0		0	7		9	0		0	_		0	7		9	0		0			0
3 lanes w/o raised median (1 lane in each direction with a		2 5	3 6	0	5	<b>⊗</b> 6	1	5	€ 6	1	5	3 6	1	5	<b>⊗</b> 6	1	5	<b>⊗</b> 6	1) 4	5	<b>€</b>	1	5	<b>€</b>	① 5	6	8
two-way left-turn lane)	4	Ŭ	9	7	Ŭ	9		Ŭ	õ	7	Ŭ	9	0	Ŭ	õ		Ŭ	õ	7	Ŭ	9		Ŭ	õ	ľ	Ŭ	0
4+ lanes with raised median (2 or more lanes in each direction)			8	0		8	1		8	1		8	1		8	1		8	1		6	1		8	1		8
		5			5			5	_		5			5	_		5	_		5	_		5	_		5	-
· · · · ·	7	8	9	7	8	9		8	0	7	8	9		8			8	_	0	8			8	0		8	0
4+ lanes w/o raised median	0	5	<b>€</b>	0	5	6 6	1	5	6 6	1	5	8 0	1	5	6	1	5	6) ()	1	5	6	1	5	6	1	5	6 0
(2 or more lanes in each direction)	7	-	9	7	8	9		8	Ø	7	8	_	0		_		8	0	0	8	_		8	0		8	0
Given the set of conditions in a c	cell,			_			_			1	Hig	gh-v	isib	ility	cro	SSW	alk	ma	rkin	gs,	par	king	res	stric	tion	s oi	
# Signifies that the countermeasure is a candidate treatment at a marked uncontrolled crossing location.																											
<ul> <li>Signifies that the countermeasure should always be considered, but not mandated or required, based upon engineering judgment at a marked uncontrolled</li> </ul>									2 3 4	Advance Yield Here To (Stop Here For) Pedestrians sign and yield (stop) line																	
<ul> <li>Crossing location.</li> <li>O Signifies that crosswalk visibili always occur in conjunction v countermeasures.*</li> </ul>							d			5 6 7	Cu Pe Re	rb e des ctar	exter triar ngul	nsio n ret ar R	on fuge	e isl	and	I			(RI	rfb)	**				
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- MBTA
- BHA Belmont Village
- DPW
- Fire Department
- Police Department
- MPO and MassDOT

- Strong support for Phase 2 advancing to close gap in network
- Discussed approach to evaluation criteria
- In agreement with criteria
- No expressed concerns with previously
  - endorsed alignment



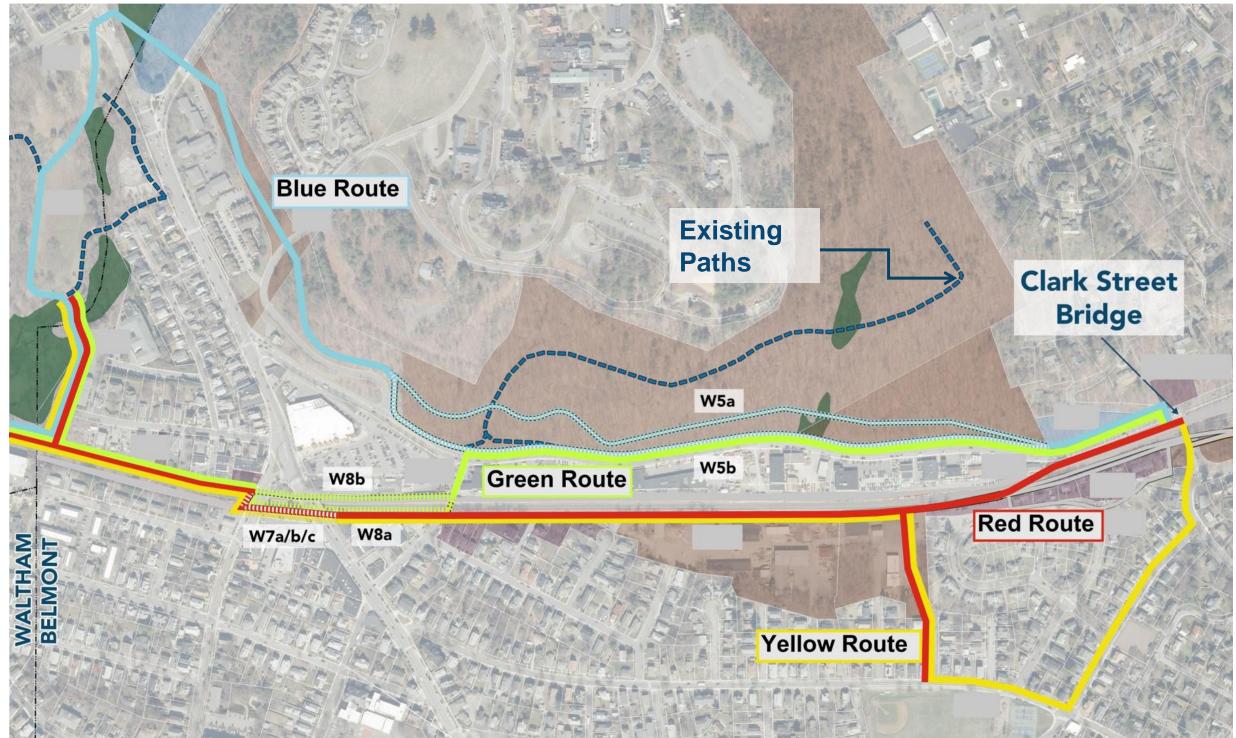
## **Alternatives**





## **Evaluation of Alternative Routes**

## **Routes consolidated for Phase 2**





# **Evaluation of Alternative Routes**

### **Routes consolidated for Phase 2**

Blue - Lone Tree Hill / Beaver Brook Between C1a and W1 Two options: W5a and W5b

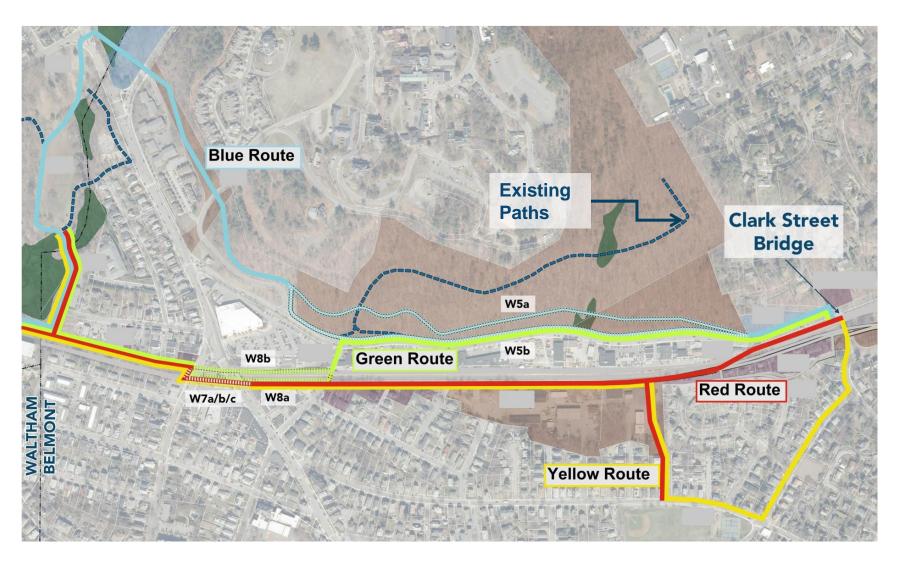
### Green - Lone Tree Hill to Waverley Sq. Between C1a and W6 (via W9a) Two Options: W8b and W8a/W7

### Yellow - Clark Street to Waverley Sq.

Between C1d and W6 (via Waverley Street) Three Options: W7a, W7b, W7c (all at Waverley Sq.)

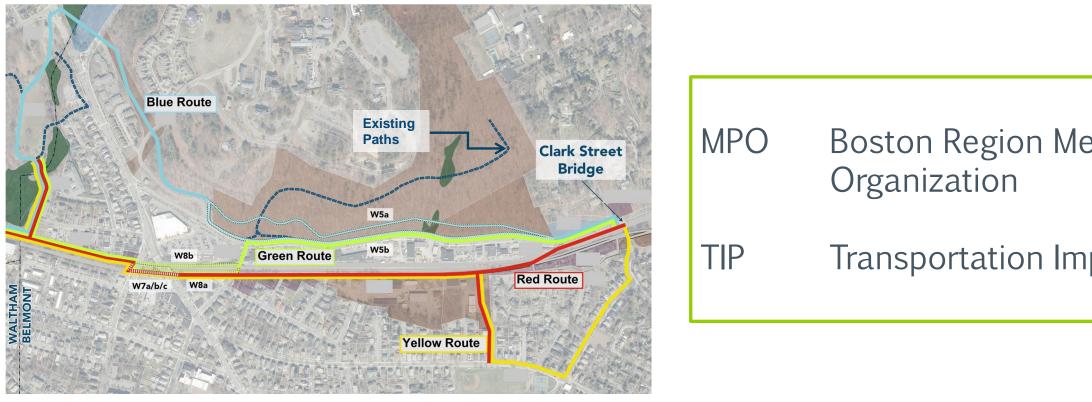
Red - Clark/Pleasant to Waverley Sq. Between C1e and W6 Three Options: W7a, W7b, W7c (all at Waverley Sq.)





### Final recommended route will:

- Be constructable
- Reflect community's input from the Feasibility Study and this project
- Be fundable = align with MPO criteria used to select project for funding under the TIP





# roject funding under the TIP

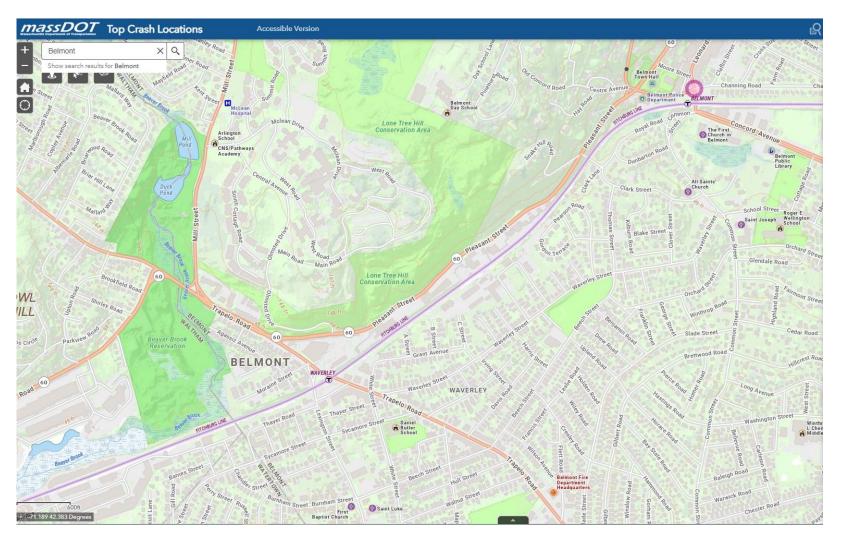
Boston Region Metropolitan Planning

Transportation Improvement Program

## Additional input considered:

- Constructability review
- Environmental Justice neighborhoods
- Crash Clusters (Highway Safety Improvement Program)







### Waverley Square Options (not being decided at this time)



W7a



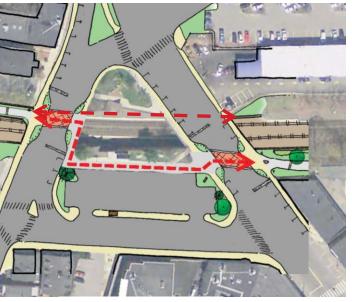








### Town of Belmont Community Path Phase 2 Design



W7c



W7biii

## **Feasibility Study Criteria**

- Developed *with* the community
- User experience was most important
- Recommended and endorsed alignment by Select Board 2017

## **Feasibility Study Criteria**

- Transportation system that supports sustainable, healthy, livable and economically vibrant region.
- Must be: safe, resilient, incorporate emerging technologies, provide equitable access, excellent mobility, varied transportation options.





learn more!





### **Feasibility Study Criteria**

CRITERIA	
<u>User Experience</u>	
Ease of Access	
Aesthetics	
Comfort	
Vehicular conflicts	
Conflicts with pedestrian way	
CRITERIA	
Environmental and Cultural Impacts	
Wetlands	
Historic resources	
Mature Woodland	
CRITERIA	
Design Attributes	
Encroachments necessary/MOU	
Fire and Safety	
Potential Partnerships	
Distance to residential structures	
CRITERIA	
Transportation	
Connectivity to Destinations (Resources, Amenities and Tran	nsit)
Ease of universal public accessibility	
Consistency with regional plans (MCRT/Wayside Trail)	
Impact on existing traffic/transportation	
Rail conflicts/proximity	
CRITERIA	
Cost	
Range of Construction Costs	
Operations and Maintenance Costs	
Qualify for Funding	
Value Added	

### **TIP Criteria**

### **Checklist and Phase 2 Criteria**

Bicycle Network and Pede Sco	estrian Connections Project ring
SAFETY: Transportation by a	ll modes will be safe.
Project improves bicycle safety (up to 7 points)	
Project improves pedestrian sa (up to 7 points)	fety
Project improves safety for all ( (up to 6 points)	Jsers
SYSTEM PRESERVATION: Ma	intain and modernize the trar
Project incorporates resiliency ( (up to 5 points)	elements into its design
Improves connectivity to critica (up to 2 points)	l facilities
Project improves existing pede (up to 5 points)	strian facilities
Project improves other existing (up to 2 points)	assets
CAPACITY MANAGEMENT/N	AOBILITY: Use existing facility
Project improves pedestrian ne (up to 9 points)	twork and ADA accessibility
Project improves bicycle netwo (up to 9 points)	rk
CLEAN AIR/SUSTAINABLE CO	OMMUNITIES: Create an envin
Project reduces CO2 (up to 4 points)	
Project reduces other transporte (up to 6 points)	ation-related emissions
Project enhances natural enviro (up to 4 points)	onment
ECONOMIC VITALITY: Ensure	our transportation network
Project serves sites targeted for (up to 4 points)	future development
Project serves existing employn (up to 4 points)	nent and population centers
Project demonstrates proponen (up to 3 points)	t investment



$\checkmark$		
$\checkmark$		
✓		
$\checkmark$		
$\checkmark$		
$\checkmark$		

## **Criteria to drop:**

- Check List
  - all Routes must meet (accessibility)
- Understood
  - improves pedestrian connections
- Not applicable
  - impacts to historic resources
- Circular reference
  - qualifies for funding

Bicycle Network and Pedestrian Connections Project		CRITERIA		
Scoring		<u>User Experience</u>		
AFETY: Transportation by all modes will be safe.		Ease of Access		-
roject improves bicycle safety up to 7 points)		Aesthetics		
		Comfort Comfort		+
roject improves pedestrian safety up to 7 points)	$ \Rightarrow $	Vehicular conflicts		
roject improves safety for all users		Conflicts with pedestrian way		
up to 6 points)		CRITERIA		
YSTEM PRESERVATION: Maintain and modernize the tran		Environmental and Cultural Impacts		
	1\	Wetlands		
up to 5 points)		Historic resources		
nproves connectivity to critical facilities		Mature Woodland		
up to 2 points)		CRITERIA		
up to 5 points)		<u>Design Attributes</u>		
roject improves other existing assets		Encroachments necessary/MOU		
up to 2 points)		Fire and Safety		
APACITY MANAGEMENT/MOBILITY: Use existing facility		Performation Destances in the		
	1 \ <b>K</b>	Distance to residential structures		
up to 9 points)		CRITERIA		
		<u>Transportation</u>		
up to 9 points)	<b>   </b>	Connectivity to Destinations (Resources, Amenities and Transit)		
LEAN AIR/SUSTAINABLE COMMUNITIES: Create an envir		Ease of universal public accessibility		
roject reduces CO2 up to 4 points)	\\/	Consistency with regional plans (MCRT/Wayside Trail) 🗲		
roject reduces other transportation-related emissions	17 W Y	Impact on existing traffic/transportation		
up to 6 points)		Rail conflicts/proximity		
roject enhances natural environment up to 4 points)		CRITERIA	ļ	
CONOMIC VITALITY: Ensure our transportation network	/ / \			
roject serves sites targeted for future development		Range of Construction Costs Operations and Maintenance Costs	ĺ	
up to 4 points)		Operations and Maintenance Cosis		
roject serves existing employment and population centers up to 4 points)		Value Added		
	۲ I/			
up to 3 points)	V			
roject promotes access to affordable housing opportunities				



# **Phase 2 Criteria**

## **Categories:**

- User Experience x2
- Safety
- Connectivity and Separation
- Resiliency
- Economic Vitality

User E	<u>xperience</u>
Increase	e barrier-free access
Advance	e positive aesthetics
Increase	e personal comfort
Increase	e distance from rail / heavy traffic
Safety	
Reduce	vehicular / pedestrian conflicts
Improve	traffic / transportation
Include	multi-modal safety improvements
Conne	ctivity and Separation
Connect	to community destinations
Connect	to critical facilities
Connect	to transit (rail and bus)
Ease ac	cess to EJ Neighborhoods
Launa -	EXACT NAME OF THE ADDRESS OF ADDRESS OF ADDRESS

Close gap in MCRT

Maximize distance to residential structures

Resiliency
nhance natural environment
void impacts to Wetland Resource Areas
Protect mature woodlands
imit additional pavement
ncrease access to open space
Reduce vehicular trips
Economic Vitality
Cost relatively less to construct
Serve future development
Serve employment/population centers
mpact to Business Operations
Promote access to affordable housing

\_\_\_\_



# **Draft Recommended Alignment**

Blue - Lone Tree Hill / **Beaver Brook** 

Between C1a and W1

Two options: W5a and W5b

Green - Lone Tree Hill to Waverley Sq.

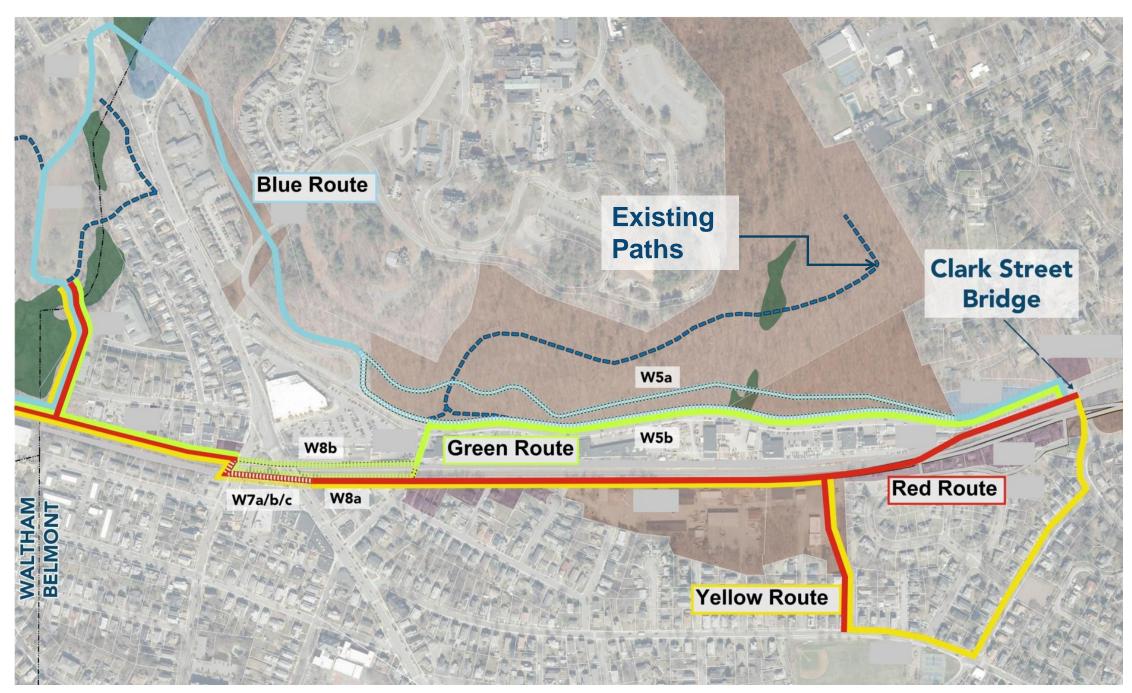
Between C1a and W6 (via **W9**a)

Two Options: W8b and W8a/Ŵ7

Yellow - Clark Street to Waverley Sq.

Between C1d and W6 (via Waverley Street)

Three Options: W7a, W7b, W7c (all at Waverley Sq.)



# **<u>Red</u>** - Clark/Pleasant to Waverley Sq.

Between C1e and W6 + 3 Options thru Waverley Sq.



# **Listening Session**

- We will take comments from the live and virtual audience.
- Live Audience
  - Please step up the microphone and wait to be called on.
  - For those in the auditorium, you can come into the Select Board room or use the laptop in the auditorium.
- Virtual Audience
  - Please raise your hand.
  - Your mic will be turned on when called on.
  - If calling in, dial \*9 to raise your hand and \*6 to unmute.
  - Additional comments can be made using the Q+A function
  - Approximately every 15 minutes, we will answer questions from the Q+A.
- In order to allow everyone to speak, please try to limit your time to 1 minute.
- The meeting is scheduled to end at 9:00 PM.



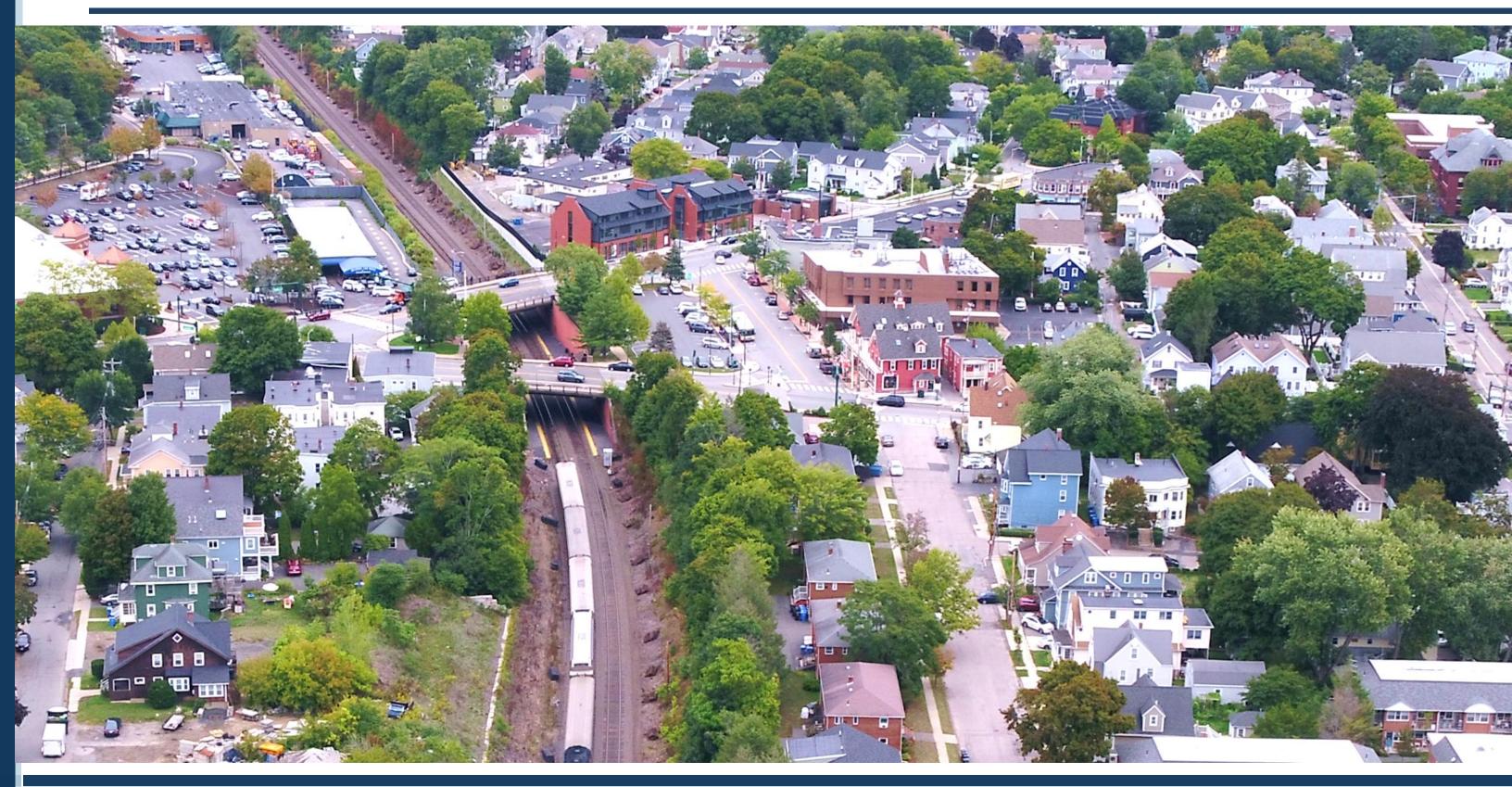


# **Next Steps**

- Review feedback and conduct follow-up coordination as necessary
- CPPC to present recommended route to Select Board mid-June
- Complete survey of selected route
- Begin design 25% Submission early 2024 (pending funding)
- State review periods dependent on TIP FFY

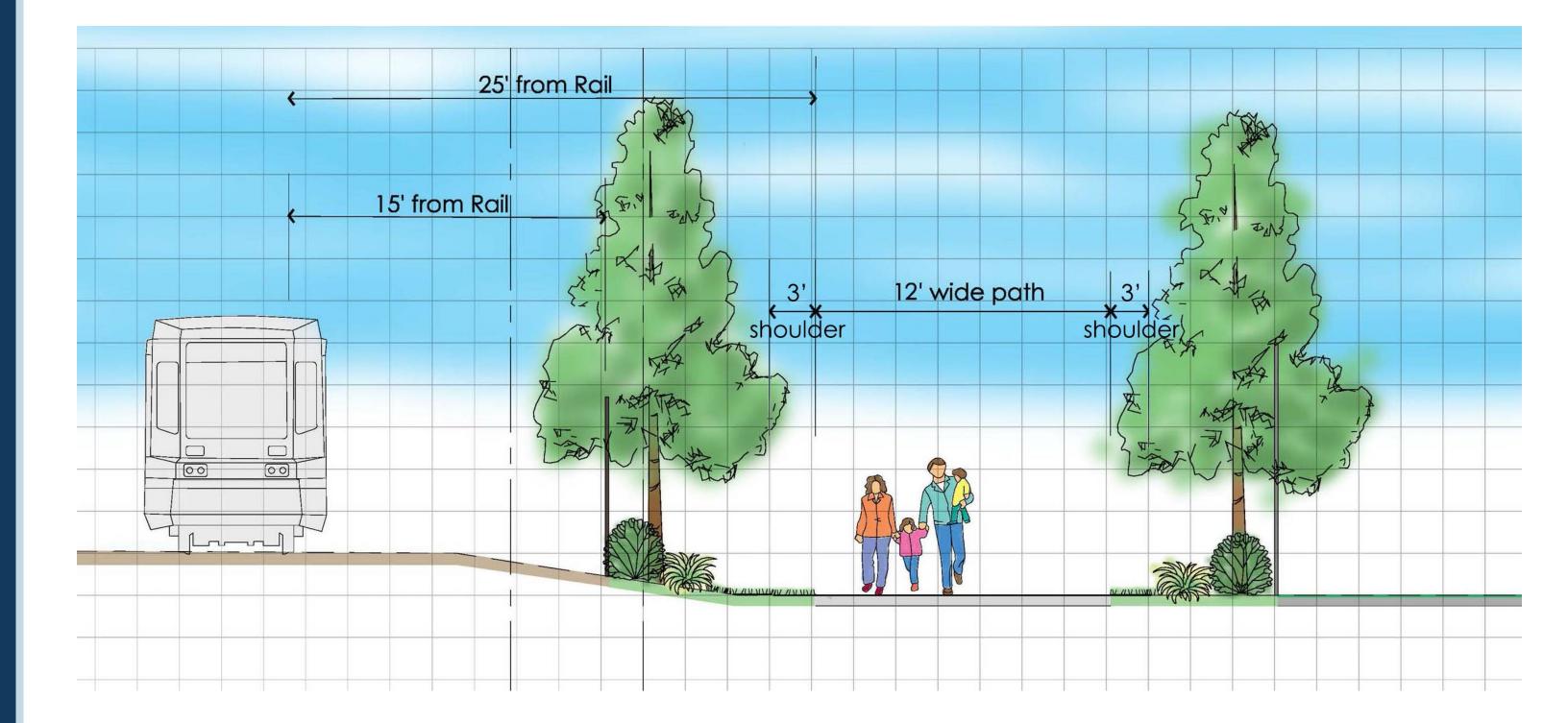


# **Thank You for Participating!**



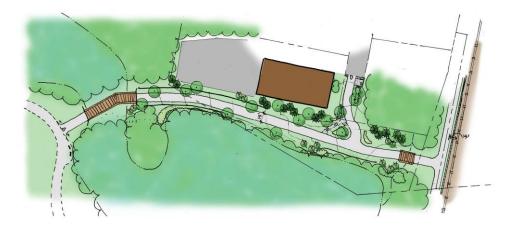


# **Typical Section**

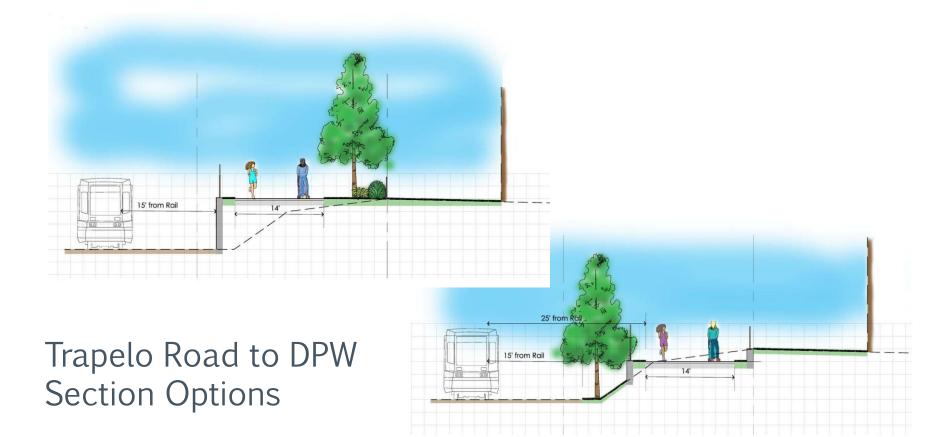


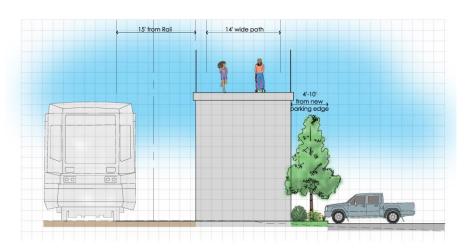


# **Draft Recommended Route Sketches (FS)**

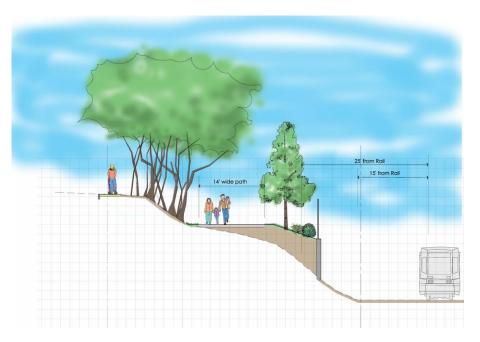


**Beaver Brook Connection** 





**BHA** Section





### Town of Belmont Community Path Phase 2 Design

### **Pleasant Street Section**