



CAPITAL 
TRANSFORMATION
A Division of Capital Programs

Green Line Train Protection and Track Upgrades

2022 Public Meeting

May 18, 2022

Meeting Overview | *Diversity and Civil Rights*

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Spanish

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Chinese

MBTA 的所有活动，包括公开会议，都没有歧视。MBTA 遵守所有联邦和州公民权利要求，防止基于种族、肤色、国籍、有限的英语能力和其他受保护特征的歧视。我们欢迎来自我们整个服务领域的多样性。如果您有任何问题或疑虑，请访问 www.mbta.com/titlevi 联系多元化和民权办公室。

Russian

Вся деятельность MBTA, включая публичные собрания, свободна от дискриминации. MBTA соблюдает все федеральные и государственные требования в отношении гражданских прав, предотвращая дискриминацию по признаку расы, цвета кожи, национального происхождения, ограниченного владения английским языком и дополнительных защищенных характеристик. Мы приветствуем разнообразие во всей нашей сфере обслуживания. Если у вас есть какие-либо вопросы или опасения, посетите сайт www.mbta.com/titlevi, чтобы связаться с Управлением по вопросам разнообразия и гражданских прав.

Meeting Overview | *Language Accessibility*

We offer interpretation during this meeting. In your meeting/webinar controls, click Interpretation (the small globe icon) and click the language that you would like to hear.

Spanish

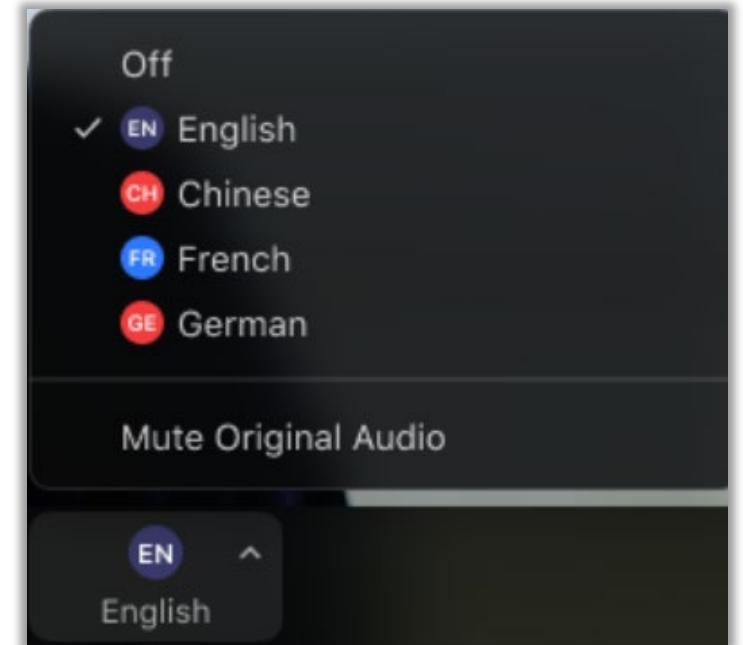
Ofrecemos interpretación en español durante esta junta. Para escoger el audio en Inglés o en Español tendrá que picar el botón de interpretación, el cual tiene un imagen de un mundo. Cuando le pique la interpretación por favor de escoger el idioma cual le gustaria oír

Chinese

我们本次会议期间提供口译服务。在您的会议/网络研讨会的控件中，单击口译（小地球图标），并单击您想听到的语言

Russian

Мы предлагаем устный перевод во время этой встречи. В элементах управления собранием/вебинаром нажмите «Interpretation» (значок маленького глобуса) и выберите язык, который вы хотите услышать.



Meeting Overview | *Use Chat for Technical Questions*

If you have a technical question about Zoom or the features of the meeting, please use the chat function. Our technical assistant will attempt to troubleshoot your problem and get back to you.

Spanish

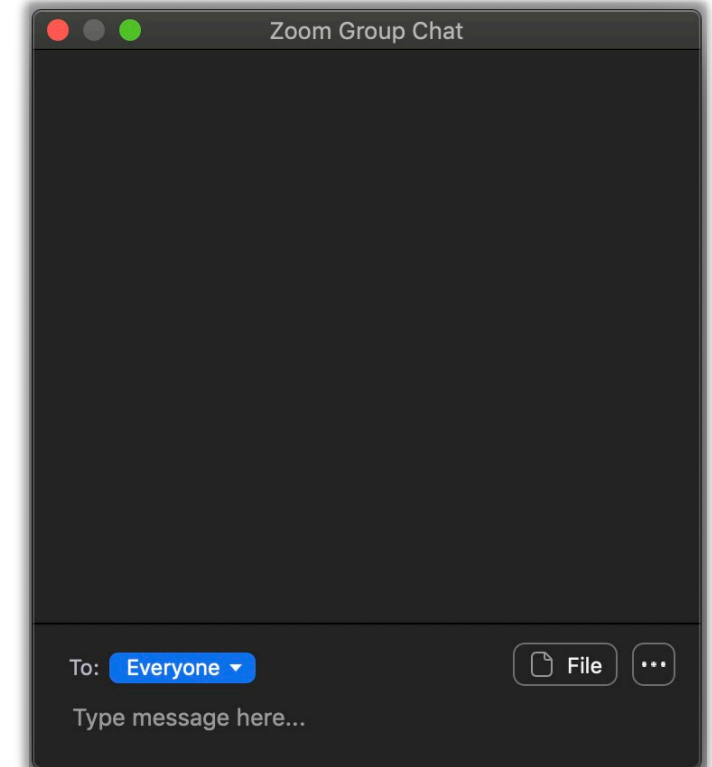
Si tiene una pregunta técnica de zoom o los enseres de zoom durante la junta. Favor de usar el chat. Nuestro asistente técnico bajo el nombre de “Zoom Tech” le ayudará con su problema.

Chinese

如果您有关于Zoom或者会议功能的技术问题，请使用对话框的聊天功能。我们的技术辅助员会回复您并尽力帮您解决问题。

Russian

Если у вас есть технический вопрос о Zoom или особенностях встречи, воспользуйтесь функцией чата. Наш технический помощник попытается решить вашу проблему и свяжется с вами.



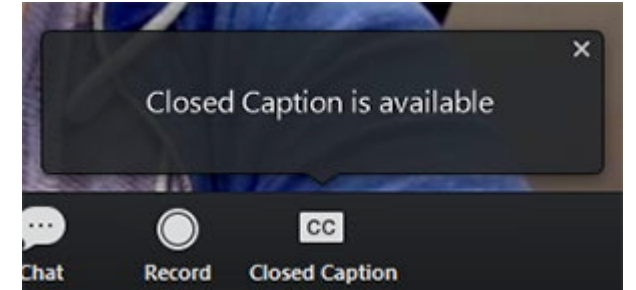
Meeting Overview | *Closed Captions*

Click **Closed Caption** to start viewing closed captioning

- **Tip:** Click and drag the closed captioning to move its position in the meeting window

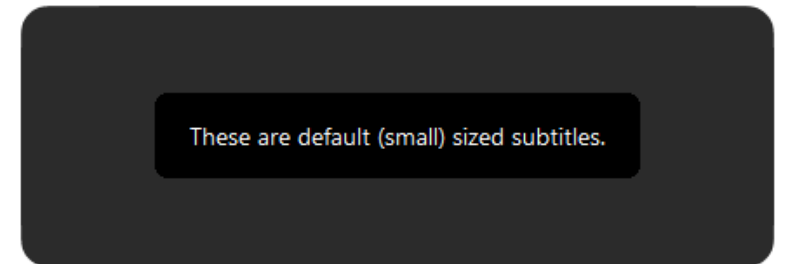
To adjust the caption size:

- Click the upward arrow next to **Start Video / Stop Video**
- Click **Video Settings** then **Accessibility**
- Move the slider to adjust the caption size



Closed Caption

Closed Caption Font Size: Normal Medium Large



SAFETY MOMENT

***Cross Tracks at
Designated and
Marked Locations***

Ride Safer



Agenda | Green Line Train Protection and Track Upgrades

1. Capital Transformation
2. Train Protection Installation
3. B Branch Overview
 - Alternative Service
 - Questions and Answers
4. C Branch Overview
 - Alternative Service
 - Questions and Answers
5. E Branch Overview
 - Alternative Service
 - Questions and Answers
6. D Branch Overview
 - Alternative Service
 - Questions and Answers
7. Outreach and Transparency



To improve the quality of service for MBTA riders and neighboring communities through strategic capital investments.



What is Capital Transformation?

Levels of Transformation:

- 🛡️ Improved Safety and State of Good Repair
- ♿️ Enhanced Accessibility
- 🚆 Replacement of Legacy Fleets
- 👥 Increased Passenger Capacity
- 👤 Modernized Rider Experience
- ⚙️ Expansion of Service

Each level aims to **improve reliability** and the overall **quality of service** for all riders and communities served by the system





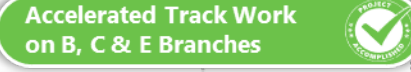








Green Line Transformation | Achievements to Date



 <p>60,500 Feet of Track</p>	 <p>30 Units of Special Trackwork</p>	 <p>7.4 Route Miles of Signal</p>
 <p>36 Intersections</p>	 <p>10+ Crosswalks</p>	 <p>2 New Accessible Stations</p>

Green Line Train Protection and Track Upgrades

GLT Program Office Established

Investment Type	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Level 0 Safety & State of Good Repair (SGR)					
	Track				 Fenway Portal
					 Accelerated Track Work on B, C & E Branches
	Structures				 Green Line D Branch Track and Signal Replacement
					 Lechmere Viaduct Rehabilitation
Level 1 Enhanced Accessibility					
	Stations				 Newton Highlands: Interim Access Improvements
					 Symphony Station 100% Design
					 B Branch Station Consolidation & Accessibility
Level 2 Legacy Car Replacement					
	Vehicles				 Specification Development for Type 10 Vehicles

Transit Signal Priority (TSP)

Operational improvements that use technology to reduce dwell time at traffic signals for transit vehicles by holding green lights longer or shortening red lights



Benefits

- *Increase Line Speed*
- *Decrease Dwell Time*
- *Enhance Intersection Safety*

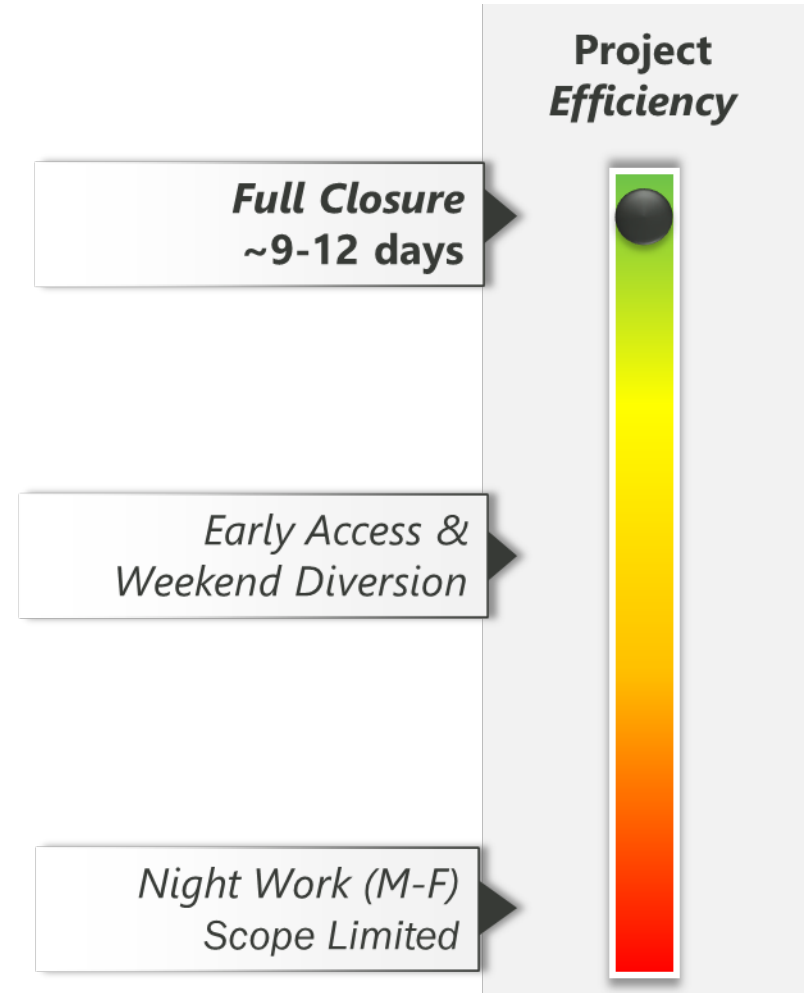
- ✓ Can support more Transit Signal Priority intersections
- ✓ Adding intersections in collaboration with municipalities
- ✓ Rebuilding Transit Signal Priority software
- ✓ Will generate data on Transit Signal Priority efficacy

Acceleration Strategy | Condensed Schedule

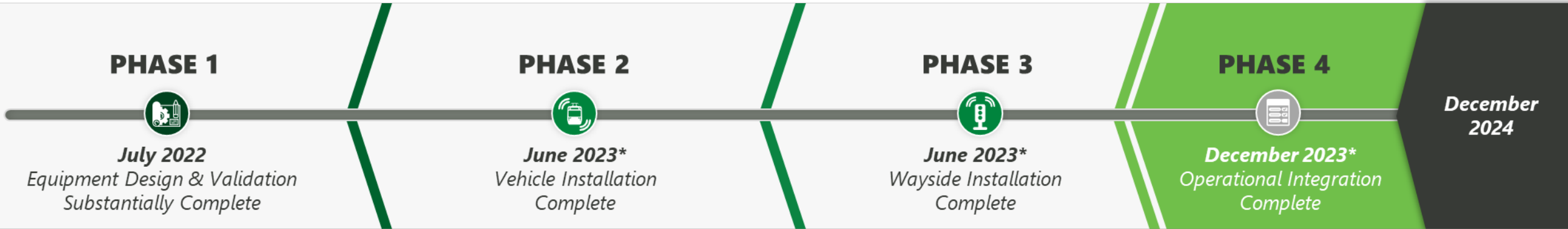
The acceleration reduces the project timeline by over 1 year

24-hour access to the system allows crews to accomplish more work faster

- **9-12 days of full access is more efficient than 4-6 months of weekend diversions and night work**
 - ✓ Improves work site safety
 - ✓ Allows for more complex work that cannot be done over a weekend or overnight
 - ✓ Eliminates repeated setup/breakdown time
 - ✓ Reduces overall duration of impact to the corridor
 - ✓ Saves time and resources



Overview | Green Line Train Protection System (GLTPS)



**Accelerated Dates*



GLTPS Phases

- Phase 1: Equipment Design & Validation
- Phase 2: Vehicle Installation
- **Phase 3: Wayside Installation**
- Phase 4: Operational Integration

Benefits

- ✓ Reduce the risk of red signal violations
- ✓ Reduce the risk of train-to-train collisions
- ✓ Speed enforcement
- ✓ Protect Right-of-Way (ROW) workers

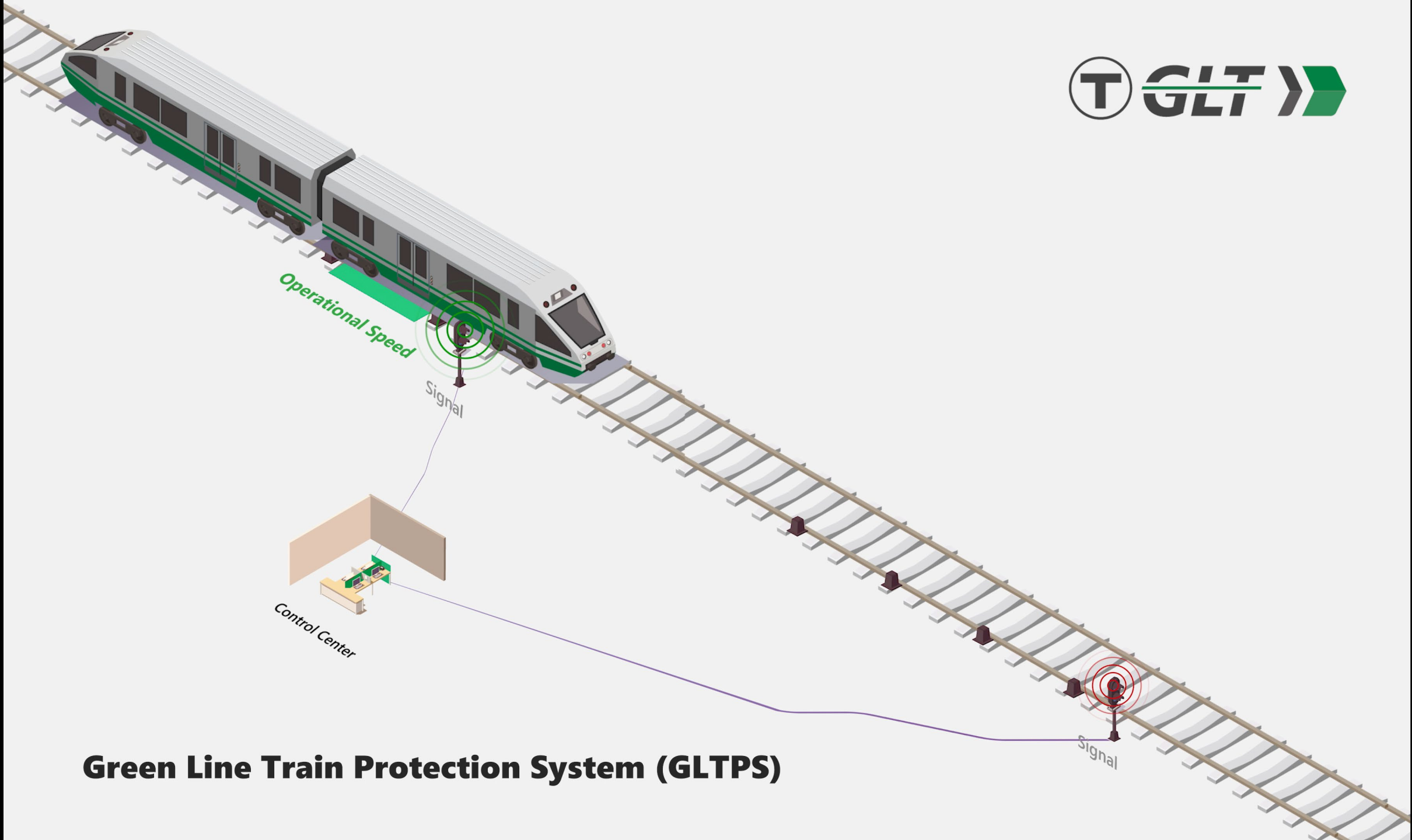
Operational Speed

Signal

Control Center

Signal

Green Line Train Protection System (GLTPS)





*Green Line
Train Protection &
Track Upgrades*

**Construction
Overview**

GLTPS Test Train and Equipment



Green Line Train Protection | *Equipment Installation*



Speed Balise positioned in a signaled or non-signaled area that identifies a change in the allowable speed

Signal Balise positioned in front of a signal to guarantee that a train can be stopped with sufficient distance



Junction Boxes convert the status information from the signal system and transmits it to the vehicle equipment

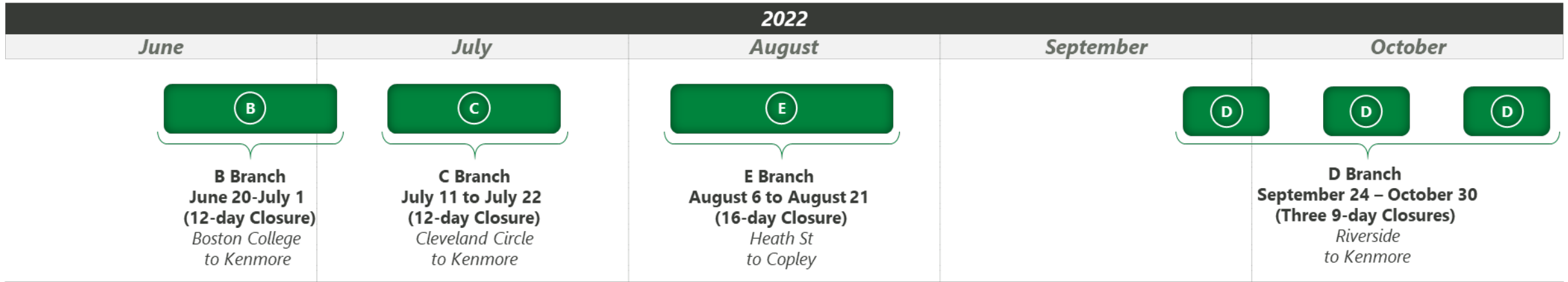


Signal Heads indicate the status of the track ahead and the manner of which the train should proceed

Green Line | Construction Sequence – Summer/Fall

6
Full Access
Closures

Accelerating Safety Improvements across the Green Line



Installation of the Wayside Equipment of the Train Protection System kits

- Install **Speed Balises** affixed to the track (B, C, E)
- Upgrade **Signals**, add **Balises** and **Wayside Junction Boxes** (E, D)

Amplifying Results with Additional Construction Opportunities

- Replace **12,950 Feet of Track** (B: 3,200 ft, C: 1,500 ft, E: 2,850 ft, D: 5,300 ft)
- Upgrade **10 Crossings** (Pedestrian and Vehicle Intersections)
- Replace **6 Units of Special Trackwork**

What Neighbors Can Expect During Construction

1 Noise

- Work will take place **24/7**
- Track replacement and intersection paving work generates noise
- MBTA implements standard **mitigation strategies** to minimize noise and monitors noise levels
- A 24/7 **noise hotline** is available (617-222-4100)

2 Traffic

- Lane closures will be needed near work zones
- **B Branch:** Linden St and Comm Ave
 - **C Branch:** Beacon St and Carlton St
 - **E Branch:** Huntington Ave, Longwood Ave, Forsyth Way and South Huntington Ave around Heath St Loop
 - Detour signage for vehicles
 - Police officers at key locations

3 Parking

- Parking lanes will be shifted for local traffic and emergency vehicles
- Some parking will be temporarily removed
- Necessary for storage of materials/equipment
- Emergency access, and/or traffic detours

4 Pedestrian & Bicycle

- Crosswalks within work zones will be temporary closed
- Pedestrian crossings will be marked with detour signage
- Police officers will be at key locations

Work Crews | Who you will see along the tracks

Multiple mobile signal crews will perform intricate (but less disruptive) work along the closed area



Signal Installation

- Less noise – limited heavy equipment
- Small mobile crews
- Electrical work with wiring by persons
- Minimal pavement cutting and patching



Track Replacement

- Work can be disruptive
- Saw cutting, welding, and rail grinding
- Tampers and other heavy equipment
- Pavement cutting and patching at crossings



***Green Line
Train Protection &
Track Upgrades***

***B Branch
Boston College to
Kenmore***

June 20 - July 1

Current Conditions: Packard's to Harvard Ave



GLTPS Installation & Track Upgrades | B Branch - Boston College to Kenmore



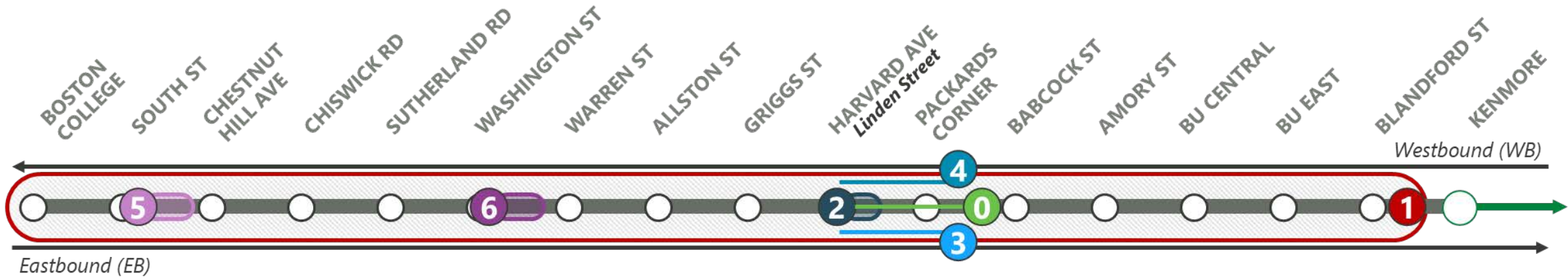
12 Days of Full Access

Monday, June 20 to
Friday, July 1, 2022

- **Equipment installation** for the components of the Train Protection kits
- **Attachment of speed balises** to the track
- **Replacement of 3,200 feet of track** from Linden up to Packard's Corner Platform
- **Upgrade Linden St Intersection** and **Fordham Road Pedestrian Crossing**
- **Replacement of special trackwork** at Cardinal & Washington Crossovers

Construction Summary | Sequence of Work

DRAFT



#	Work Location*	June																			July					
		6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
0	Prep Work (Welding/Equipment Storage)	[Green blocks]										12 Days of Full Access														
1	GLTPS Installation	[Greyed out]																			[Red blocks]					
2	Linden Street Grade Crossing	[Greyed out]																			[Dark blue blocks]					
3	Linden St to Packard's Corner Station – EB	[Greyed out]																			[Light blue blocks]					
4	Linden St to Packard's Corner Station – WB	[Greyed out]																			[Teal blocks]					
5	Cardinal Crossover	[Greyed out]																			[Purple blocks]					
6	Washington Crossover	[Greyed out]																			[Dark purple blocks]					
	Cleanup and Restore Site	[Greyed out]																			[Olive blocks]					

*The schedule for this infrastructure project is weather dependent and subject to change.

GLTPS Installation & Track Upgrades | Packard's Corner to Linden St



Commonwealth Ave

- **Westbound:** Left lane closed from Brighton Ave to Harvard Ave
 - Collector road will be closed, and a detour will be set up between Brighton Ave to Linden St for equipment and material access, staging, and emergency access
- **Eastbound:** Lanes will not be impacted

Linden St track crossing

- Will remain closed for the duration of the construction



Police Details: Present at all active work zones



Pedestrian Access: Detour signage to direct pedestrians across Commonwealth Ave at Harvard Ave, Packards

- Fordham Rd crosswalk will be closed
- Packard's Station open, but may require closure during certain construction activities



Parking: The westbound collector road will have meter and permit parking spaces taken and act as emergency access

GLTPS Installation & Track Upgrades | Cardinal Crossover (Boston College)




Commonwealth Ave | One travel lane, both directions

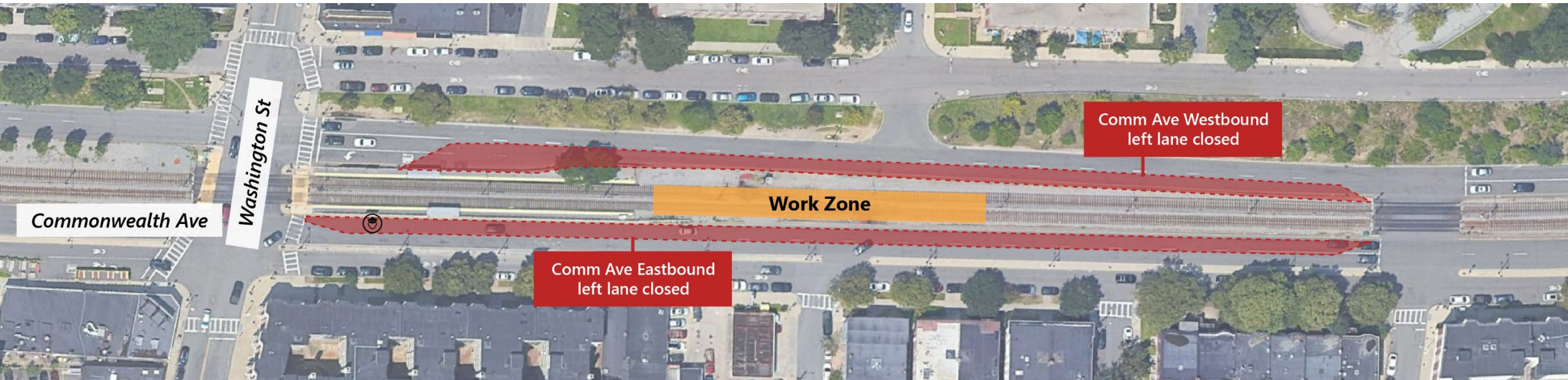
- **Westbound:** left lane closed (Lake St to Greycliff), left turn open
- **Eastbound:** both lanes closed – cars will use parking lane

 **Police Details:** Will be present at all active work zones

 **Pedestrian Access:** No planned impacts




 **Parking:** Commonwealth Ave eastbound resident parking between Lake Street and Greycliff Road will be taken to accommodate vehicles traveling Eastbound

GLTPS Installation & Track Upgrades | *Washington Crossover (Washington St)*



Commonwealth Ave | One lane open in both directions
(Washington St to Summit Ave)

- During unloading, traffic will be directed to collector roads
- Full closures of both eastbound and westbound lanes will not happen at the same time

-  **Police Details:** Present at all active work zones
-  **Pedestrian Access:** No planned impacts
-  **Parking:** No planned impacts

Alternative Service | Monday, June 20 to Friday, July 1, 2022



Free, accessible Buses will operate from Boston College to Kenmore



- Shuttle schedule will meet or exceed frequency of current B Branch schedule
 - Weekday (peak service): 3-7min
 - Weekend (off-peak): 5-8min
- Shuttle stops along Commonwealth Ave, Babcock St, and Blandford Street will be located at the existing bus stops for Bus **Route 57**
- Shuttle stops between Harvard Ave and Boston College will be located adjacent to stations and marked with signage
- Shuttle service will be accessible vehicles from Private Carriers



Service Alert

Shuttles will not stop at Warren St, Allston St, or Packard's Corner Stations due to accessibility concerns

Riders should use nearby Washington St, Harvard Ave, and Babcock St stations as alternatives

Shuttle Stops | Station Alternatives



Buses will not stop at Packard's Corner, Allston St, or Warren St

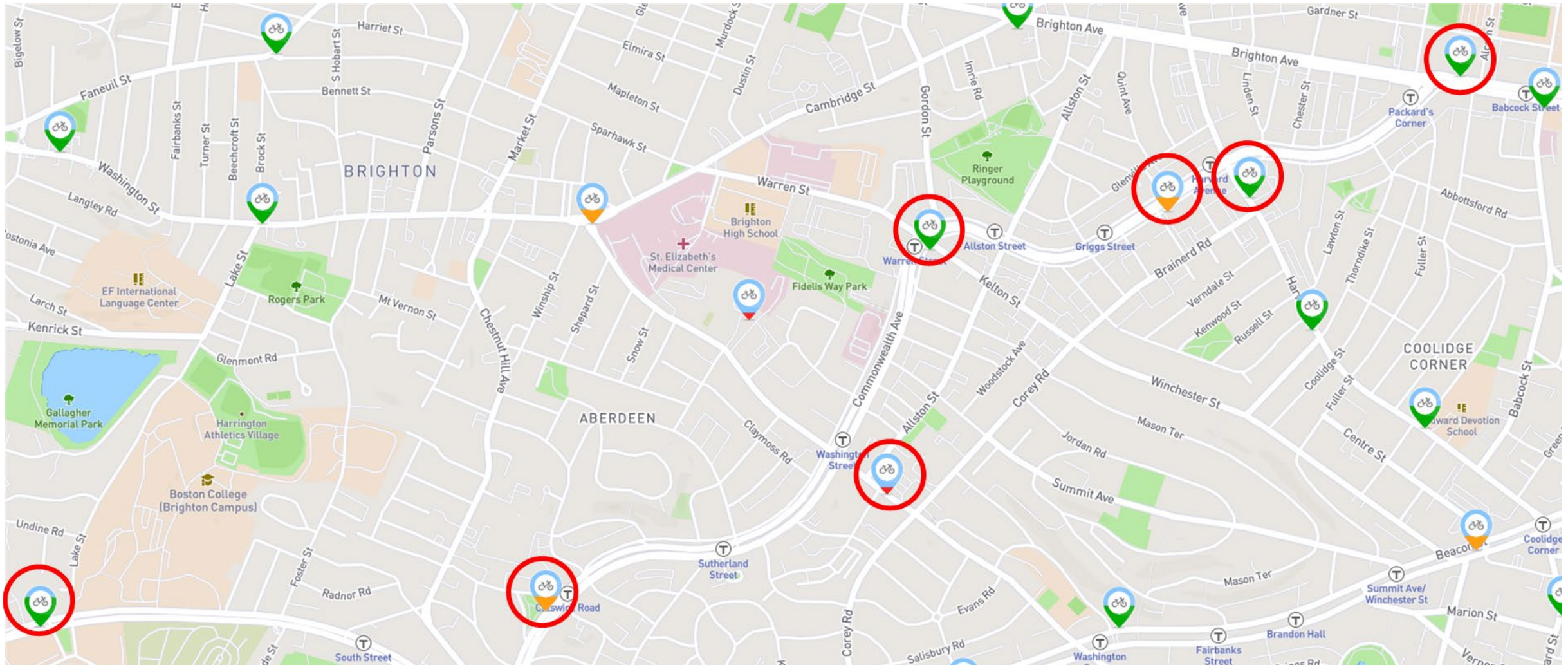
- Riders can use Harvard Ave (approx. 2,000 ft) or Babcock St (approx. 1,000 ft) instead of Packard's Corner
- Riders can use Griggs St instead of Allston St, approximately a 1,000 ft walk
- Riders can use the Washington St stop instead of Warren St, approximately a 1,500 ft walk

The RIDE

- Eligible people may schedule trips using The RIDE, MBTA's paratransit service
- Contact The RIDE Eligibility Center (TREC) at 617-337-2727, or email trec@paratransit.org

Other Alternatives | *Bluebikes along the B Branch*

Bluebikes are available along the B Branch



Virtual Meeting | *Raising Your Hand*



To speak,
click **"Participants"**
then **"Raise hand"**



Send a chat
to the moderator



***9**
Raise Hand



Questions & Answers Per Section

After you speak, we will lower your hand and you will be muted to allow the team to respond and provide opportunities for others to participate

Please use Zoom's "Raise Hand" feature to indicate if you have a comment

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Por favor de usar el encero de levantar la mano en Zoom para indicar que usted tiene algún comentario o pregunta.

Todos los participantes en esta llamada están silenciados, para que solo los presentadores se puedan oír. Cuando usted levante su mano, manda un alerta a la moderadora que quisiera hablar. La moderadora le quitará el silencio para que pueda hacer su pregunta o comentario.

如果您有评论，请使用 Zoom 的“举手”功能。

所有的参与者在进来时都被静音了以便于只听到演讲者。请举手，会议主持人将让您取消静音，以便您陈述您的问题/评论。

Пожалуйста, используйте функцию Zoom «Поднять руку», чтобы указать, есть ли у вас комментарий.

При подключении у всех участников отключается звук, поэтому слышны только докладчики. Пожалуйста, поднимите руку, и организатор собрания попросит вас включить звук, чтобы вы могли изложить свой вопрос/комментарий.

Comments may also be sent to GLT@mbta.com



***Green Line
Train Protection &
Track Upgrades***

***C Branch
Cleveland Circle
to Kenmore***

July 11 - July 22

Current Conditions: St Mary's towards Portal



GLTPS Installation & Track Upgrades | C Branch - Cleveland Circle to Kenmore



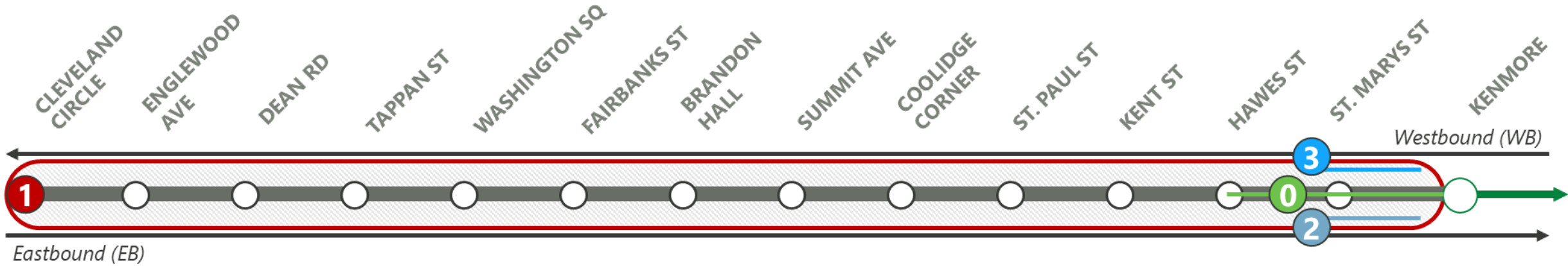
12 Days of Full Access

Monday July 11 to
Friday July 22, 2022

- **Equipment installation** of the components of the Train Protection kits including the **attachment of speed balises** to the track
- **Replacement of 1,500 feet of track** from St. Mary's Portal to Beacon Junction

Construction Summary | Sequence of Work

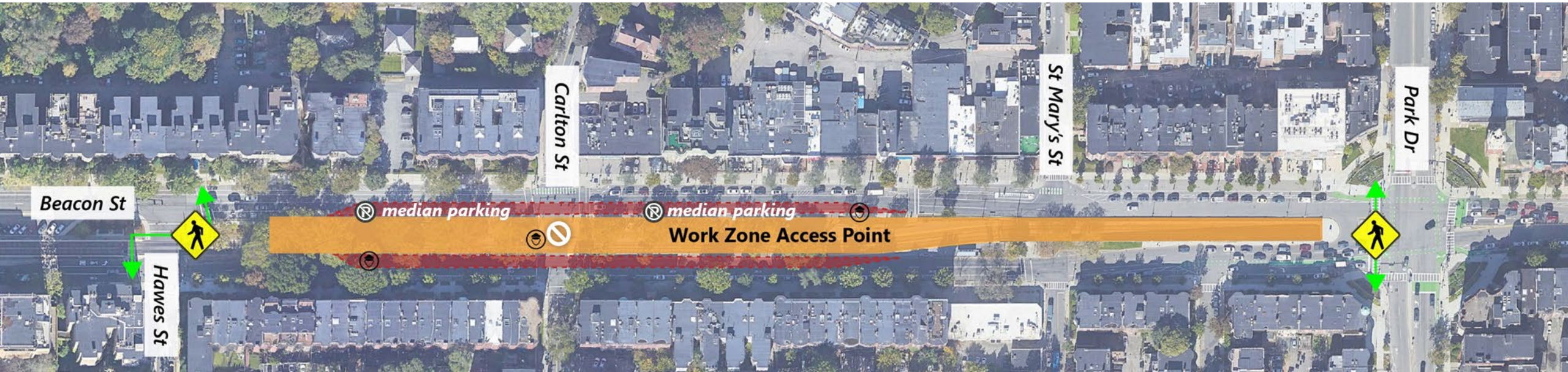
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		5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23				
0	Prep Work (Welding/Equipment Storage)	█	█	█	█																			
1	GLTPS Installation											█	█	█	█	█	█	█	█	█	█	█	█	
2	St. Mary's Street Portal to Beacon Junction – Eastbound											█	█	█	█	█	█	█	█		█			
3	St. Mary's Street Portal to Beacon Junction – Westbound														█	█	█	█	█	█	█	█	█	
	Cleanup and Restore Site																			█	█	█	█	

*The schedule for this infrastructure project is weather dependent and subject to change without notice

Traffic Impacts | Hawes Street to Park Drive



Beacon St | One lane, each direction (Hawes to St Mary's)

- Monday to Friday, left lane closures will be temporarily removed during rush hour in the direction of peak traffic
 - Eastbound removed from 6:00 am to 9:00 am
 - Westbound removed from 3:00 pm to 7:00 pm

Carlton St track crossing

- Will remain closed for the duration of the construction



Police Details: present at all active work zones



Pedestrian Access: Crosswalks will be closed, and pedestrian detour signage will be set up to direct pedestrians to cross Beacon St at either Hawes St or Park Dr

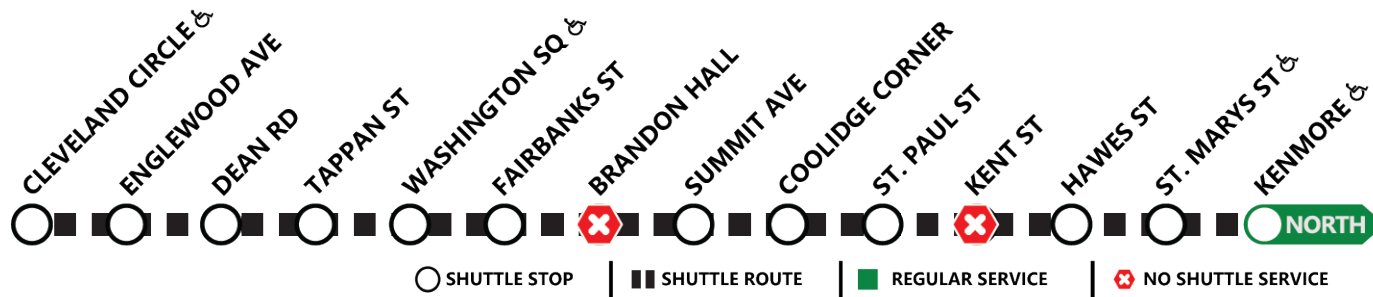


Parking: The median parking areas between St. Mary's Station to Carlton St, and from Carlton St to Hawes St will be taken for track reconstruction activities

Alternative Service | Monday, July 11 to Friday, July 22, 2022



Free, accessible buses will operate from Cleveland Circle to Kenmore



- Shuttle schedule will meet or exceed frequency of current C Branch schedule
 - Weekday (peak service): 5-6 min
 - Weekend (off-peak): 5-8 min
- Shuttle stops will be located near the existing Green Line platforms
- Shuttle service will be accessible vehicles from Private Carriers



Service Alert

We will consolidate 2 stops at **Brandon Hall** and **Kent Street** in each direction

- Riders will be directed to either Fairbanks St or Summit Ave instead of Brandon Hall
- Riders will be directed to either St. Paul St or Hawes St instead of Kent St

Shuttle Stops | Consolidated at Two Locations



We will consolidate shuttle stops at Brandon Hall and Kent Street in each direction



Shuttle stops at all but two of the stations along the C Branch to optimize service and reduce travel times

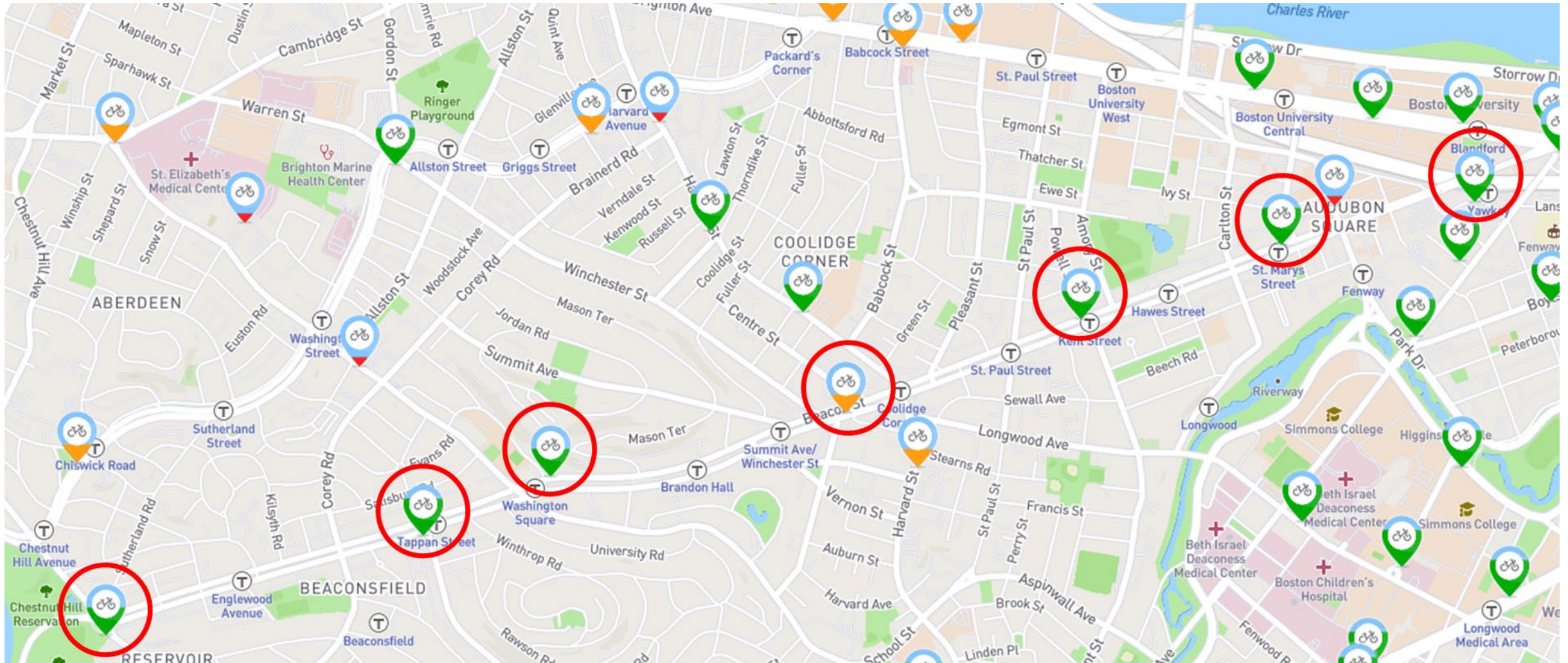
- Minimizing number of stops improves shuttle bus efficiency
- Diversions add less than 800 feet to a walking route
- Signage will advise customers where they can board shuttle buses

The RIDE

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- Contact The RIDE Eligibility Center (TREC) at 617-337-2727, or email trec@paratransit.org

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***Green Line
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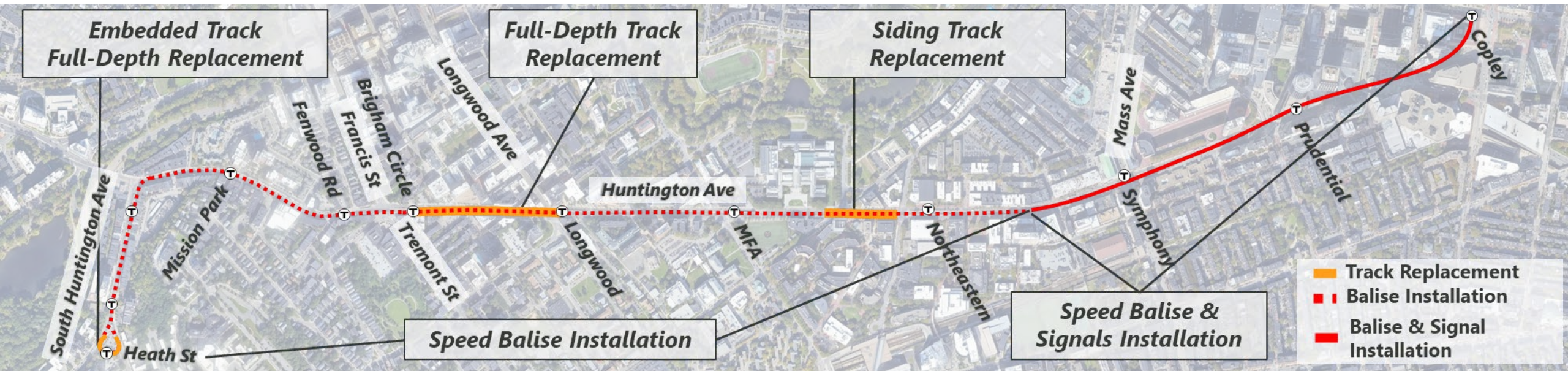
***E Branch
Heath St to Copley***

***August 6 -
August 21***

Current Conditions: Brigham Circle to Longwood



GLTPS Installation & Track Upgrades | E Branch - Heath Street to Copley Station

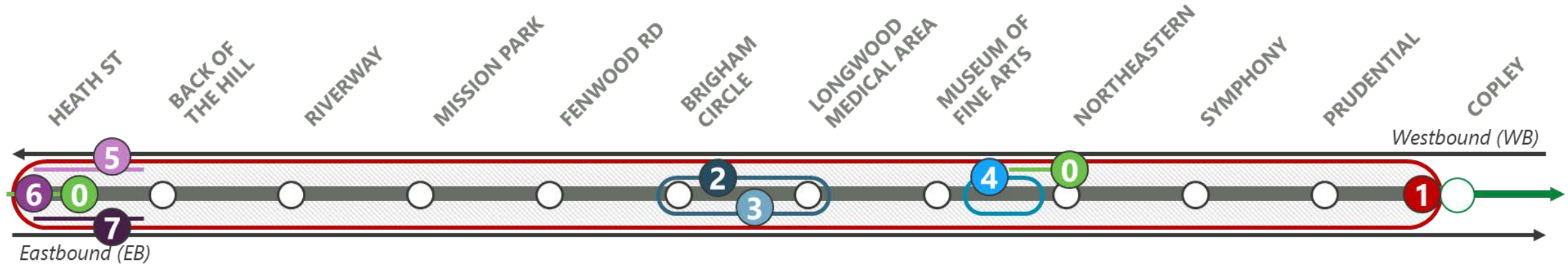


16 Days of Full Access
Saturday August 6 to
Sunday August 21, 2022

- **Equipment installation within the tunnel** of the components of the Train Protection kits to **upgraded signal heads**, wayside junction boxes and **speed balises** affixed to the track
- **Replacement of 2,000 feet of track** between Longwood Ave and Brigham Circle, **250 feet of track** at the Northeastern siding, and **400 feet of track** at the Heath Street Loop

Construction Summary | Sequence of Work

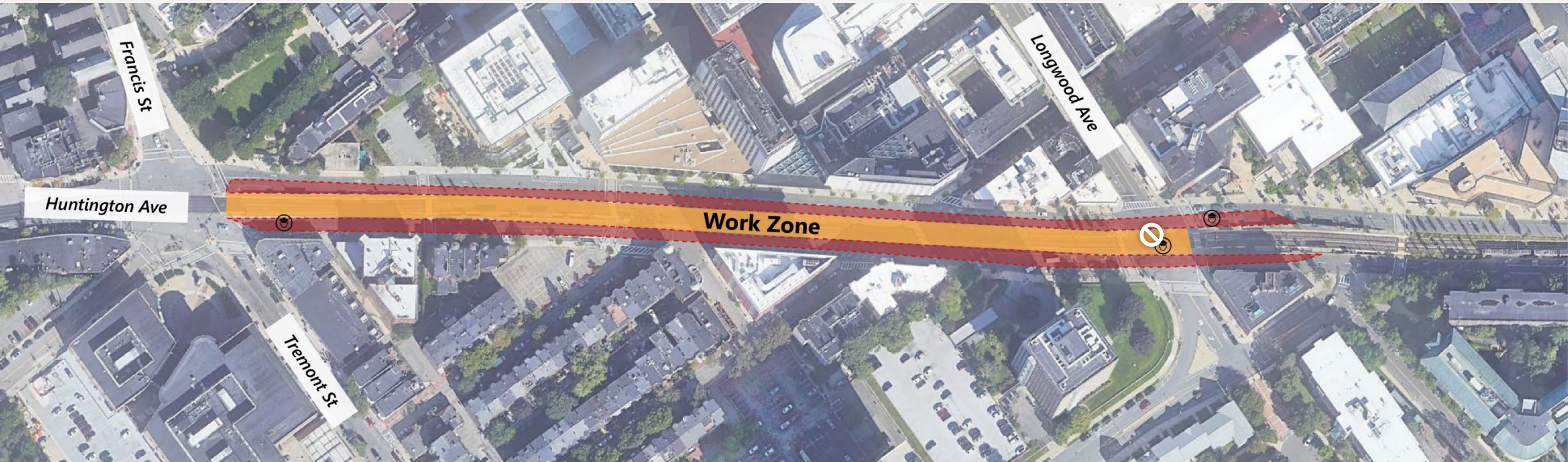
DRAFT



#	Work Location*	August																									
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21					
0	Prep Work (Welding/Equipment Storage)	█					16 Days of Full Access																				
1	GLTPS Installation						█																				
2	Brigham Circle to Longwood Ave						█																				
3	Wigglesworth Special Trackwork														█												
4	Forsyth Siding Track																█										
5	Phase 1 - South Huntington Ave						█																				
6	Phase 2 - Heath Street Loop													█													
7	Phase 3 - Heath Street																	█									
	Cleanup and Restore Site																					█					

*The schedule for this infrastructure project is weather dependent and subject to change without notice

GLTPS Installation & Track Upgrades | Brigham Circle to Longwood



Huntington Ave | One lane, each direction (Tremont St and MassArt Art Museum)

- One travel lane in each direction will remain open

Longwood Ave Intersection

- Will remain closed for the duration of the construction
- Intersection will be open for emergency vehicles

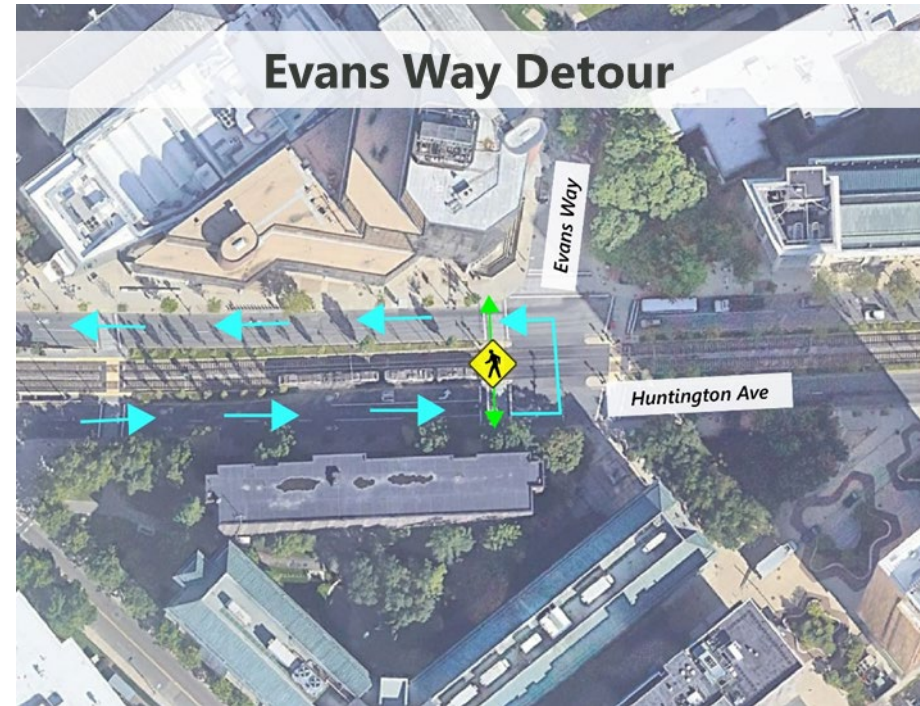
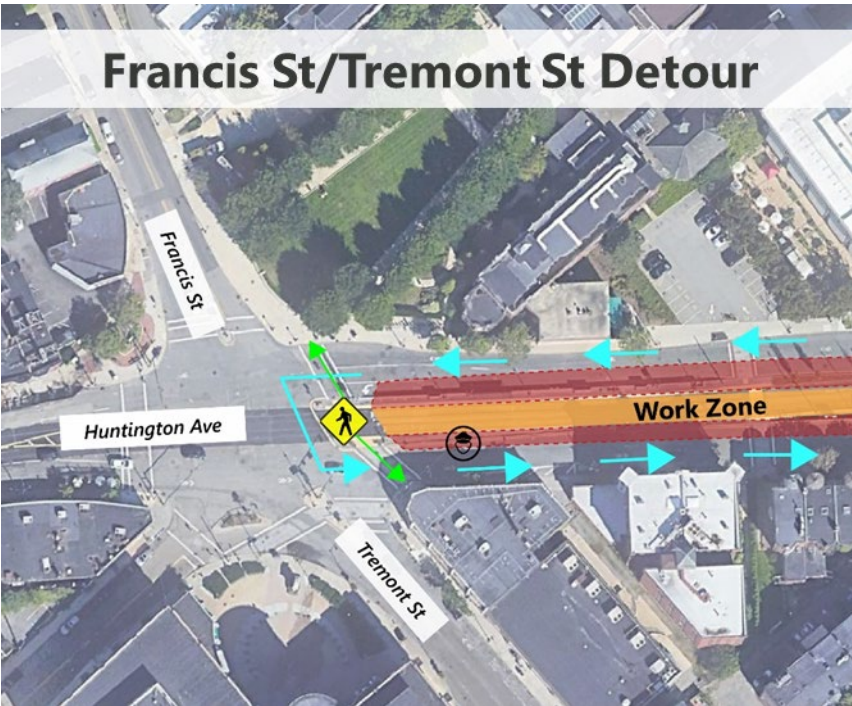


Police Details: Present at all active work zones



Pedestrian Access: All pedestrian crossings within the work zone will be closed and detours set up

Traffic Management | Brigham Circle to Longwood



Longwood Ave and Huntington Ave | Intersection Closed

- Drivers needing to cross Huntington Ave will be able to make U-turns at the intersection of Francis St/Tremont St, and at the Evans Way crossing
- Intersection will be open for emergency vehicles



Police Details: Present at all active work zones



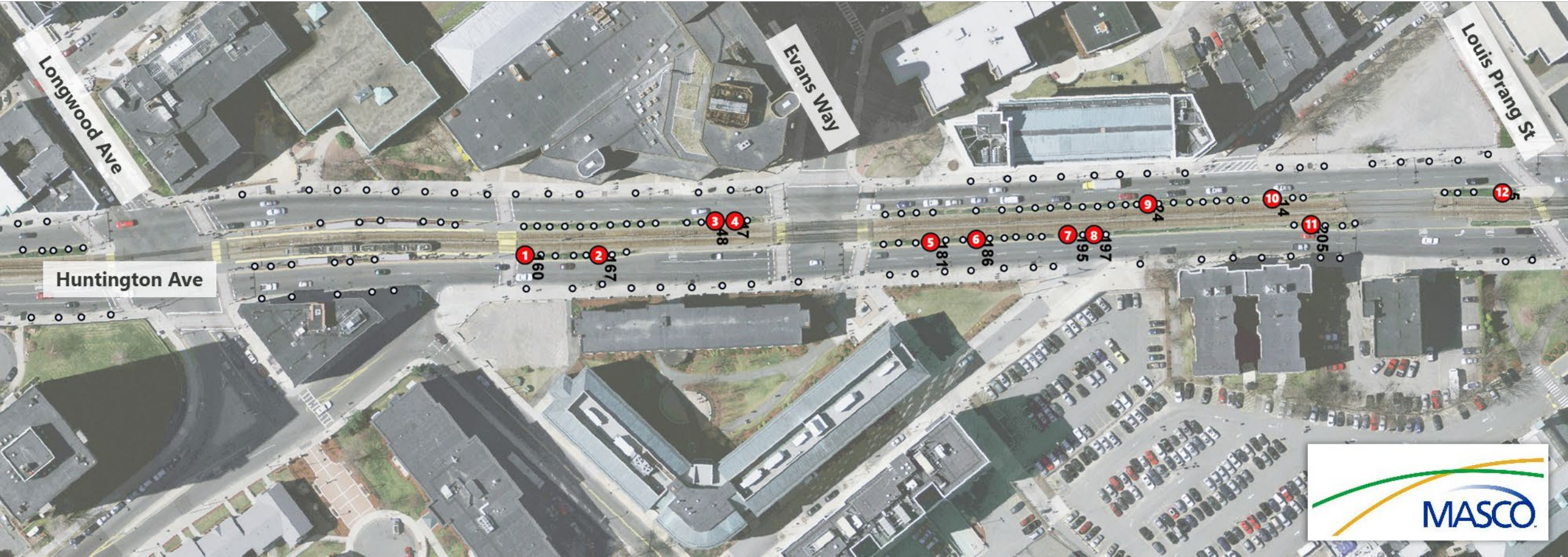
Pedestrian Access: All pedestrian crossings within the work zone will be closed and detours set up. Pedestrians will be able to cross at Brigham Circle and Evans Way



Parking: No impact

Huntington Ave Tree Replacement | Longwood Ave & Ruggles St

In coordination with MASCO 12 trees will be replaced in the Huntington Ave median





GLTPS Installation & Track Upgrades | Museum Rd to Forsyth Street


Huntington Ave | One lane, each direction (Museum Rd and Forsyth St)

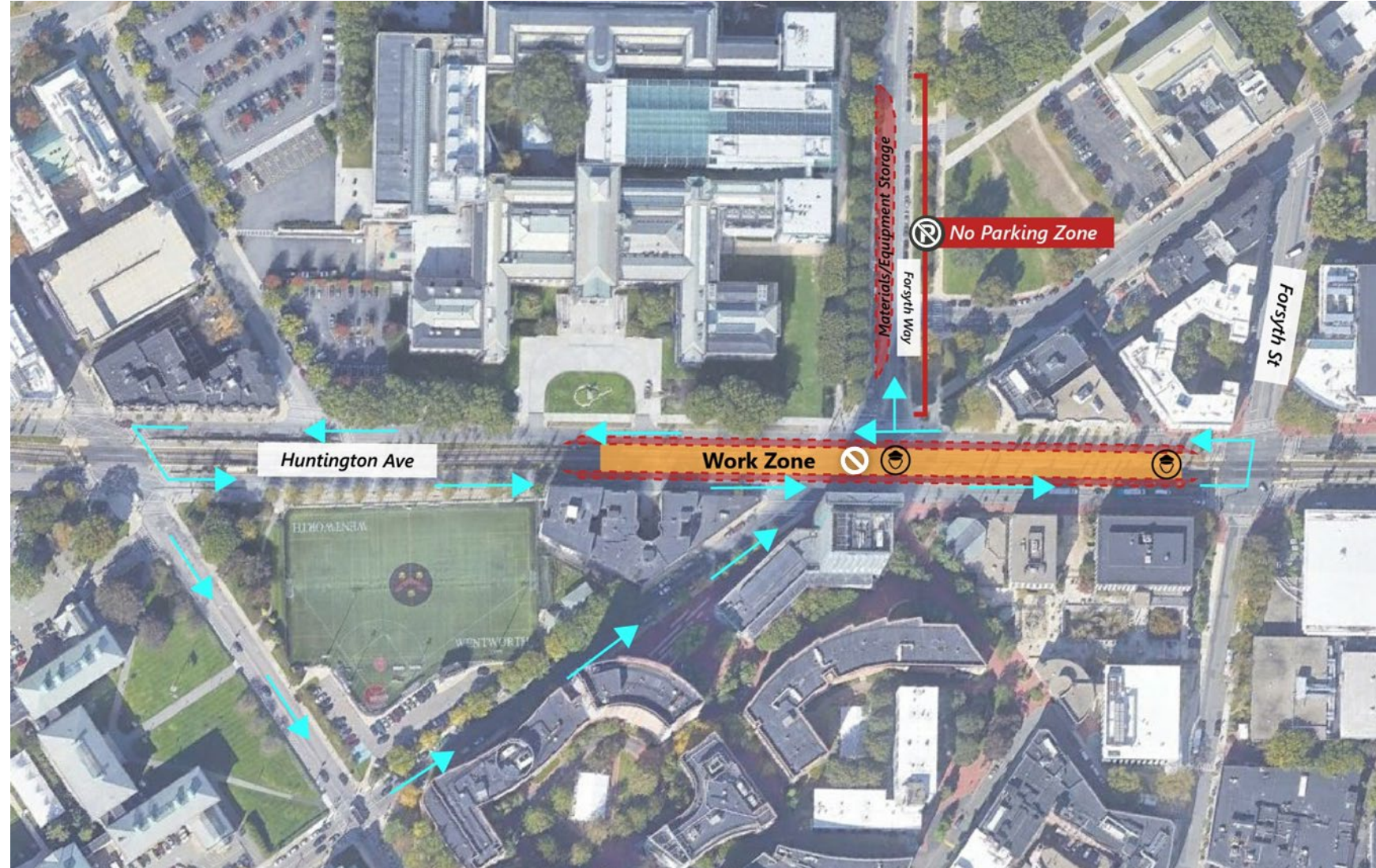
Forsyth Way

- Southbound lane closed, for equipment storage.
- Northbound lane and parking used for travel in both directions

 **Police Details:** Direct traffic at Forsyth Way and U-Turns at Forsyth St

 **Pedestrian Access:** All pedestrian crossings within the work zone will be closed and detours set up

 **Parking:** Forsyth Way metered parking spaces will be closed throughout the surge



GLTPS Installation & Track Upgrades | Heath Street Loop



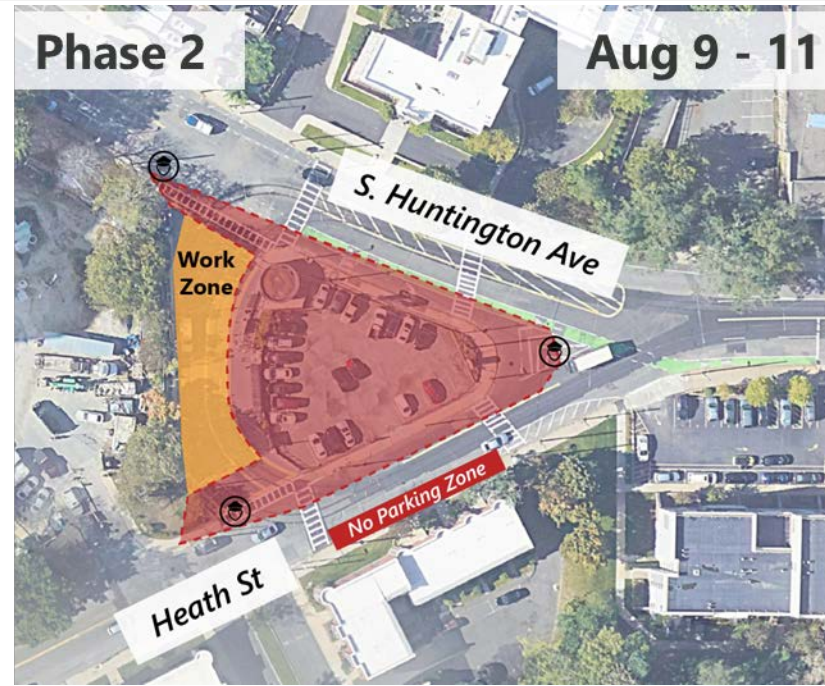
South Huntington Ave | One lane in each direction with police details at each end to stop traffic

Heath St

- Both lanes open

Pedestrian Access

- Heath St loop pedestrian crossings closed



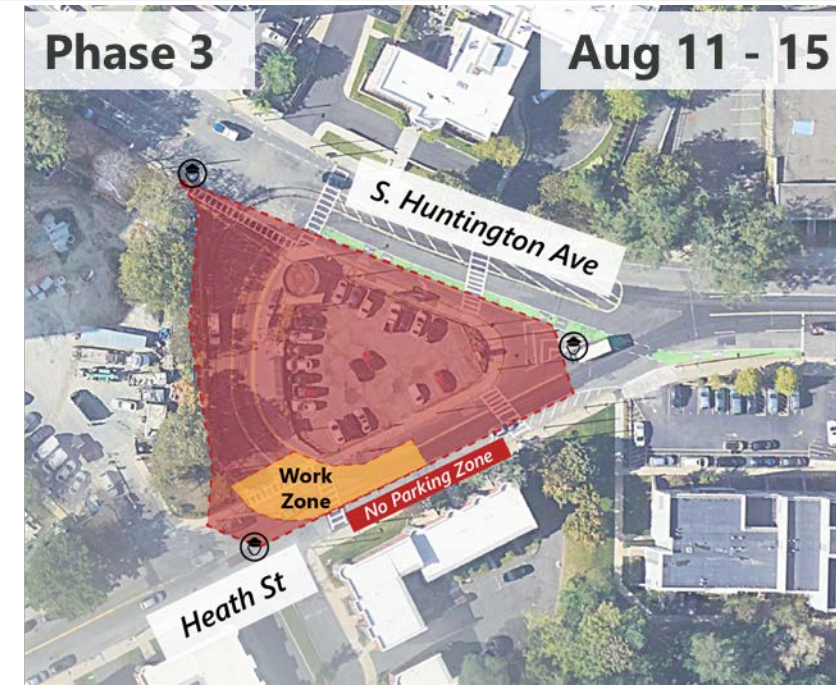
South Huntington Ave | Both lanes open

Heath St

- No parking in front of 315 Heath St, two lanes of traffic on Heath St open but shifted, using closed parking spaces for one lane of travel

Pedestrian Access

- Heath St loop pedestrian crossings closed



South Huntington Ave | Both lanes open

Heath St

- No parking in front of 315 Heath St, one lane of bi-directional traffic on Heath St open but shifted into closed parking spaces, police details to stop traffic

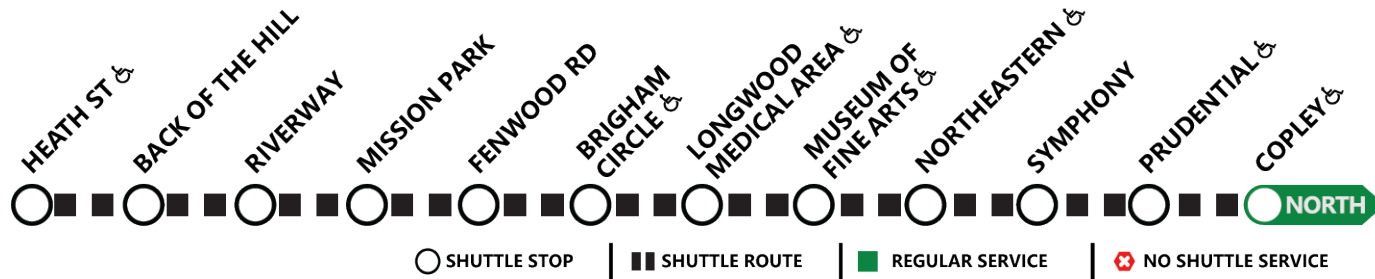
Pedestrian Access

- Heath St loop pedestrian crossings closed

Alternative Service | Route 39 Bus



Route 39 Bus service will be enhanced with accessible buses operating between Heath St and Copley Station



Route 39 Bus service (Forest Hills - Back Bay) will be enhanced

- Additional bus service will meet or exceed frequency of current E Branch schedule
- Bus stops along Huntington and South Huntington Ave will be marked and used as stop for alternative service



Service Alert

Route CT2 - Sullivan Sq – Ruggles Station bus will experience detours due to the closure of Longwood Avenue

Route 14 - Heath Street to Roslindale Square Heath St @ South Huntington Ave bus stop will be temporarily relocated

Virtual Meeting | *Raising Your Hand*



To speak,
click **"Participants"**
then **"Raise hand"**



Send a chat
to the moderator



***9**
Raise Hand



Questions & Answers Per Section

After you speak, we will lower your hand and you will be muted to allow the team to respond and provide opportunities for others to participate

Please use Zoom's "Raise Hand" feature to indicate if you have a comment

All participants are muted upon entry so that only the presenters can be heard. Please raise your hand and the meeting host will ask you to unmute so that you can state your question/comment.

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Todos los participantes en esta llamada están silenciados, para que solo los presentadores se puedan oír. Cuando usted levante su mano, manda un alerta a la moderadora que quisiera hablar. La moderadora le quitará el silencio para que pueda hacer su pregunta o comentario.

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Comments may also be sent to GLT@mbta.com



***Green Line
Train Protection &
Track Upgrades***

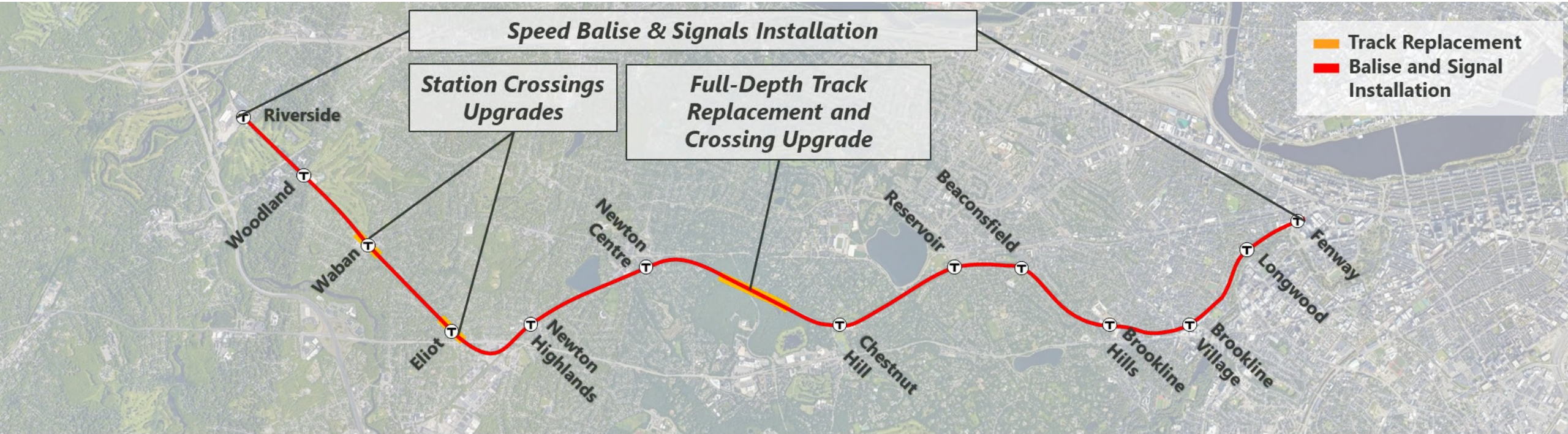
***D Branch
Riverside to Kenmore***

***September 24 -
October 30***

Current Conditions: Houghton Gardens Crossing



GLTPS Wayside Installation | D Branch - Riverside to Kenmore



Three 9-day Surges

- 1: September 24 to October 2
- 2: October 8 to October 16
- 3: October 22 to October 30

- **Equipment installation** of the components of the Train Protection kits to **upgraded signal heads, balises, and wayside junction boxes**
- Replacement of **5,300 feet of track** and **upgrade 5 station crossings** at Waban and Eliot and Houghton Gardens

Track Replacement | D Branch



Waban Station Area

- Full Depth Track Reconstruction
- Upgrade Each Pedestrian Crossings with Rubber Panels



Eliot Station Area

- Full Depth Track Reconstruction
- Upgrade Each Pedestrian Crossings with Rubber Panels and Reconstruct Truck Pad



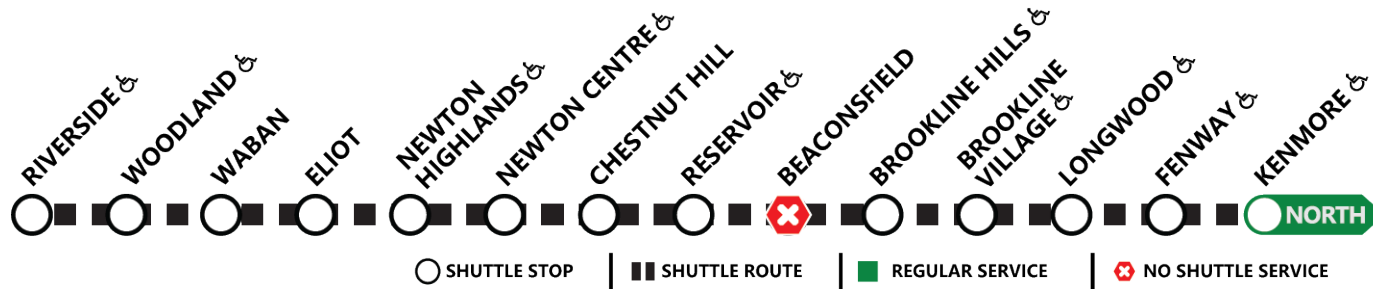
Houghton Gardens

- Full Depth Track Reconstruction
- Upgrade Pedestrian Crossings and with Rubber Panels

Alternative Service | Saturday, September 24 to Friday, October 30, 2022



Free, accessible shuttle buses will stop at stations between Riverside and Kenmore Station



Three 9-day periods: September 24 to October 2, October 8 to 16, October 22 to 30, 2022

- Additional bus service schedule will meet or exceed frequency of green line service and adjusted during Red Sox Games to accommodate for the added ridership
 - **Weekday (peak service): 6-7 min**
 - **Weekend (off-peak): 7-8 min**



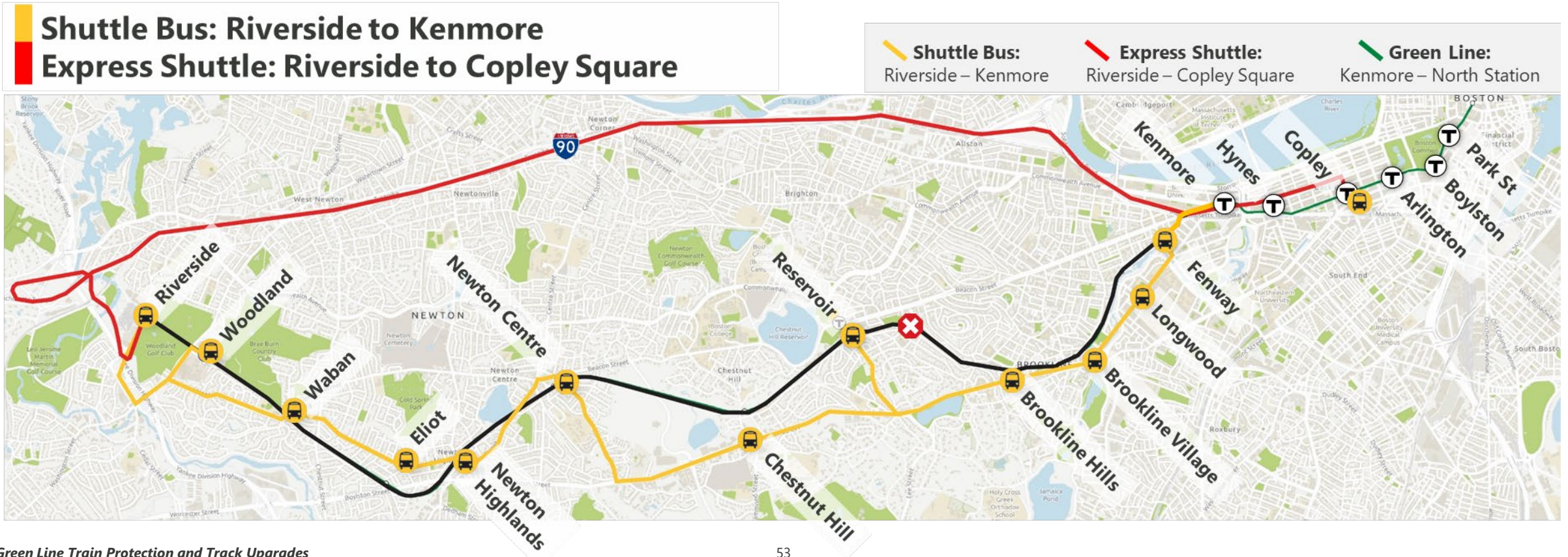
Service Alert

Shuttles are not able to stop at Beaconsfield due to narrow roads in the area. Riders can use Reservoir station, a 9-minute walk, or Dean Road on the C branch, a 2-minute walk

Alternative Service | Riverside to Kenmore – Express



- Starting on Saturday, September 24, Green Line D Branch service will be replaced with shuttle buses between Riverside and Kenmore for three 9-day periods: September 24-October 2, October 8-16, October 22-30
- Express Buses will run via Massachusetts Turnpike (I-90) from **Riverside to Copley Square** (St James Ave Bus Stop) during games or events at Fenway Park



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Raise Hand



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Green Line Train Protection & Track Upgrades

**Community
Engagement &
Outreach**

2020 Track and Intersection Upgrades



Maintaining Access | *What Riders Can Expect During Construction*



Vehicle Access

- **Advance Warning Signs** for general traffic to detour from construction
- **Police detail to maintain local traffic and emergency access**
- **U-Turns allowed at select intersections**, with police detail
- Support delivery access for local businesses and shops (loading zones)



Pedestrian Access

- Maintain pedestrian access and crosswalks at each end of the work zone
- Officer enforcement to assist pedestrians through each intersection
- Signage to guide riders and pedestrians to shuttles

Minimizing Noise



The loudest work will occur when crews cut rails with a saw and tamp the track to the proper elevation

We use several strategies to minimize noise disruptions for neighbors

- Assembling track panels off-site
- Accessing work sites through the MBTA right-of-way
- Using self-adjusting backup alarms, silencers, or mufflers on equipment
- Limiting truck and equipment idling
- Lining dumping bins, hoppers, and trucks with sound-deadening material
- Using noise blankets and shielding where possible

We monitor noise levels and respond to all noise complaints. If you would like to report a noise issue, please call the 24/7 hotline at **617-222-4100**

Coordination | Keeping Riders and Stakeholders Informed



- **Public Meeting Announcement & Press Release (April 29, 2022)**
- **Distributed Flyers in 4 Different Languages (May 9-18, 2022)**
- **Virtual Public Meeting (May 18, 2022)**
- **Responding to Questions GLT@mbta.com (ongoing)**
- **Weekly Reporting on [MBTA.com/GLT](https://www.mbta.com/GLT) (every Friday)**
- **Subscribe to alerts [mbta.com/alerts](https://www.mbta.com/alerts)**

- City of Boston
- Town of Brookline
- City of Newton

- MASCO
- Red Sox
- The Fenway Alliance
- Boston College

- Boston University
- Restaurants & Local Businesses



MBTA.COM/GLT / GLT@MBTA.COM

