C Branch Track & Intersection Upgrades

Virtual Public Meeting

June 29, 2020
Who are our stakeholders?

SAFETY MOMENT

Wear a face covering when riding public transit

Stay Healthy & Be Safe

Shuttle Bus to Kenmore

Board Here
Welcome

Agenda

• Green Line Transformation

• C Branch Track & Intersection Upgrades

• Making Connections During Construction

• Construction Sequence

• Stay Connected
Green Line
Transformation
Our Goal

Improve the Green Line quality of service, including increased capacity and enhanced accessibility, through fleet modernization, infrastructure/facility upgrades and state-of-the-art technology.
Quality of Service | Providing Service that Riders Expect and Deserve

Green Line improvements target five key service metrics focused on our riders:

- **Safety**: Mitigate service interruptions due to safety concerns
- **Capacity**: Increase speed, frequency, and capacity
- **Reliability**: Improve reliability and regularity of service
- **Access**: Improve passenger circulation and ADA compliance
- **Experience**: Improve comfort, convenience and communication
For the **safety of our riders, employees** and **contractors** during the public health crisis, additional measures are in place, with up to date information at [mbta.com/covid19/ride-safer](https://mbta.com/covid19/ride-safer)

### Stations
- Cleaning of high-contact surfaces **every 4 hours**
- In-station **hand sanitizer** dispensers more widely dispersed

### Vehicles
- Buses will be disinfected **every 24 hours**
- Seats directly behind the vehicle operator unavailable to maintain distance
- Seated passengers only to maintain **social distancing**

### Operators
- Operator’s temperature to be checked pre-shift for elevated temperatures
- We strongly encourage everyone to wear **face coverings** during this time

### Contractors
- Job briefings and breaks will be staggered / in small groups
- All personnel will use **personal protective equipment**
Green Line Full Track Renewal Plan

- **46 Miles**
  - Revenue Track Miles (242,600 ft)

** Remaining Work – Design Underway **
- **16.7 miles (36%) – 88,120 feet**
  - D Branch 2019: 10,000 feet

** Adequate Track ****
- **16.7 miles (36%) – 88,120 feet**

** Acceleration 2019 (Completed)**
- **1.6 miles (4%) – 8,480 feet (completed)**
  - B & C Branches (Green Line Intersection Upgrades)

** 2020 Safety Investment & Capital Acceleration Plan **
- **11 miles (24%) – 58,000 feet**
  - 33,000 feet B, C, E
  - 17,000 feet through D Branch Track & Signal (10,000 completed in 2019)
  - 8,000 Lechmere Viaduct (track finished in 2020)
  - Reduces average GL track age by ~10 years

** Acceleration 2019 (Completed)**
- **1.6 miles (4%) – 8,480 feet (completed)**
  - B & C Branches (Green Line Intersection Upgrades)

** Remaining Work – Design Underway **
- **16.7 miles (88,000 feet) (36%) 2021 - 2024**
  - B Branch, Packards to Warren + Blandford (15,000 ft)
  - Central Tunnel – to all portals (50,000 ft)
  - D Branch – Beaconsfield to Fenway (19,000 ft)
  - Brigham – Mission Park (4,000 ft)

This work is part of the vision for the Green Line Transformation (GLT) program.
# Project Details | Green Line Projects in 2020

<table>
<thead>
<tr>
<th>GREEN LINE PROJECTS</th>
<th>LOCATION</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>B BRANCH</strong></td>
<td></td>
</tr>
<tr>
<td>B Branch Station Consolidation</td>
<td>Babcock St – BU West</td>
</tr>
<tr>
<td>B Branch Track &amp; Intersection Upgrades</td>
<td>Boston College – Blandford</td>
</tr>
<tr>
<td><strong>C BRANCH</strong></td>
<td></td>
</tr>
<tr>
<td>C Branch Track &amp; Intersection Upgrades</td>
<td>Cleveland Circle – Kenmore</td>
</tr>
<tr>
<td>Green Line Transit Signal Priority (TSP)*</td>
<td>Cleveland Circle – Kenmore</td>
</tr>
<tr>
<td>Beacon Junction Special Trackwork*</td>
<td>St Marys – Kenmore</td>
</tr>
<tr>
<td>Duct Bank Work*</td>
<td>Washington Square</td>
</tr>
<tr>
<td><strong>D BRANCH</strong></td>
<td></td>
</tr>
<tr>
<td>D Branch Track &amp; Signal Replacement</td>
<td>Riverside – Beaconsfield</td>
</tr>
<tr>
<td>Fenway Portal Flood Protection</td>
<td>Kenmore – Fenway</td>
</tr>
<tr>
<td>Brookline High School Expansion Project (TOD)*</td>
<td>Brookline Hills Station</td>
</tr>
<tr>
<td><strong>E BRANCH</strong></td>
<td></td>
</tr>
<tr>
<td>Lechmere Viaduct Rehabilitation</td>
<td>Lechmere – North Station</td>
</tr>
<tr>
<td>E Branch Track &amp; Intersection Upgrades</td>
<td>Heath – Symphony</td>
</tr>
<tr>
<td>Green Line Extension*</td>
<td>Somerville/Medford</td>
</tr>
</tbody>
</table>

*Concurrent projects underway by other Departments
Construction Strategy | **Condensed Duration Delivers Results Sooner**

A **28-day closure** replaces **1 year** of delays, slow zones, and early access/weekend diversions — reducing inconvenience to riders—to improve **safety and reliability sooner**

**Weekends Only:**
Impacts riders, residents, businesses over **1 year**

<table>
<thead>
<tr>
<th>M</th>
<th>T</th>
<th>W</th>
<th>T</th>
<th>F</th>
<th>S</th>
<th>S</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
</tr>
<tr>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
<td>13</td>
<td>14</td>
</tr>
<tr>
<td>15</td>
<td>16</td>
<td>17</td>
<td>18</td>
<td>19</td>
<td>20</td>
<td>21</td>
</tr>
<tr>
<td>22</td>
<td>23</td>
<td>24</td>
<td>25</td>
<td>26</td>
<td>27</td>
<td>28</td>
</tr>
<tr>
<td>29</td>
<td>30</td>
<td>31</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
</tr>
</tbody>
</table>

**28-Day Closure:**
Provides a **safer, more reliable, and faster** ride in **1 month**

<table>
<thead>
<tr>
<th>M</th>
<th>T</th>
<th>W</th>
<th>T</th>
<th>F</th>
<th>S</th>
<th>S</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
</tr>
<tr>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
<td>13</td>
<td>14</td>
</tr>
<tr>
<td>15</td>
<td>16</td>
<td>17</td>
<td>18</td>
<td>19</td>
<td>20</td>
<td>21</td>
</tr>
<tr>
<td>22</td>
<td>23</td>
<td>24</td>
<td>25</td>
<td>26</td>
<td>27</td>
<td>28</td>
</tr>
<tr>
<td>29</td>
<td>30</td>
<td>31</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
</tr>
</tbody>
</table>

**Available Work Windows**

**Holidays, Events**

**Continued Delays & Slow Zones**

**1 Year, Non-Stop Night Work**
(Work Scope Limited)

**20 Weeks of Early Access**
(Mon–Fri)
(Work Scope Limited)

**18 - 20 Weekend Diversions**
spread over 1 year

= **4 Weeks (28-Days)**

A 28-Day closure is more efficient than year of diversions or night work
C Branch Track & Intersection Upgrades
Green Line C Branch At-a-Glance | Cleveland Circle to Kenmore

- ~32,000 Track Feet (5.9 miles)
- 33 Years Average Age of Track (1986)
- 18 Intersections Road Crossings
- 13 Stations Surface Level
- ~12,000 Weekday Riders (2014)

<table>
<thead>
<tr>
<th>April</th>
<th>May</th>
<th>June</th>
<th>July</th>
<th>Aug</th>
<th>Sept</th>
<th>Oct</th>
<th>Nov</th>
<th>Dec</th>
</tr>
</thead>
</table>

Cleveland Circle – Kenmore
C Branch Track & Intersection Upgrades

- July 5-Aug 1

Work Zone
Primary Scope of Work:

- **Full Depth Track Reconstruction** includes replacement of ballast, ties, rail, and drainage
- **Rubber Panel Crossing Reconstruction** at 11 locations (St. Marys, Charles, Pleasant, Harvard, Centre, Dean, Strathmore, Ayr, Cleveland Circle Station, Tappan Station - 2 locations)

**Rehabilitate more than two miles of track**

**Upgrade 7 Intersections** (and 4 isolated Pedestrian Crossings)

**Work also includes:**

- Miscellaneous repairs and improvements to the power infrastructure
- Upgrade system maps, walkways, station brightening and edging at stations
# Location | Period*
--- | ---
1 St. Marys St to Portal | Sunday, July 5 – Wednesday, July 8
2 Coolidge Corner East and West | Monday, July 6 – Monday, July 13
3 Tappan Street | Monday, July 13 – Friday, July 17 & Monday, July 20
4 Dean Road | Friday, July 17 – Monday, July 20
5 Cleveland Circle to Englewood Ave | Wednesday, July 15 – Monday, July 27
6 Coolidge Corner - Harvard St | Friday, July 24 – Monday, July 27
7 Throughout - Surface, Align, Inspect, Test | Tuesday, July 28 – Wednesday, August 1

*The schedule for this infrastructure project is weather dependent and subject to change without notice
Mitigate risk of service interruptions by replacing track that is beyond its planned design life (73% of C Branch track 30+ years old)

Improve travel times by 30 seconds in both directions (eastbound/westbound) and reduce future speed restrictions from latent track defects

Install rubber panel for a smoother experience for passengers, bicyclists, and drivers over intersection crossings

Improve pedestrian access and safety compliance with Americans with Disabilities Act (ADA) at 8 locations
Making Connections During Construction
## Making Connections during Construction

### 1. Shuttle Buses
- Combination of traditional coach buses, and low-floor MBTA-style buses on **weekdays**
- MBTA buses on **weekends**

### 2. Shuttle Bus Stop Locations
- Accessible locations
- Consolidating stops to bypass 2 Green Line Stations: **Brandon Hall** and **Kent St**

### 3. Wayfinding & Alternatives
- Additional **Bluebikes** stations
- **Signage** to guide riders and pedestrians to shuttles
- Accessible pedestrian paths at work zones
- Identify alternate routes

### 4. Lane Configuration
- Dedicated **bus lanes** where possible
- Maintain existing **bike lanes**
- Advance warning signs
- Officers at key locations
Free, accessible shuttle buses will operate between Kenmore and Cleveland Circle Stations

Shuttle schedule will meet or exceed frequency of current C Branch schedule

Weekday and weeknight shuttle service:
• Private carriers will operate a mixed fleet of 10 MBTA-style buses and traditional coach buses

Weekend shuttle service:
• MBTA buses will be used

All drivers trained to assist riders and operate lifts

For the health and safety of our riders, shuttle service will be monitored throughout the 28-days and adjusted to reduce crowding
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

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
Bluebikes | Additional Temporary Stations and Bikes

Bluebikes to place temporary bike stations on Beacon St. to give riders additional options

Potential added locations during C Branch construction:

- Between Englewood Ave and Dean Rd
- Between Brandon Hall and Fairbanks St
- Between St. Paul St and Kent St
- Between Hawes St and St. Marys

Thank you Bluebikes for working with the MBTA
Visit Bluebikes.com to learn more
Lane Configurations

Bus lane and combined bus/bike lane configurations along shuttle route for segments of Beacon St.
Temporary Lane Closure | Coolidge Corner

Beacon St. Westbound (WB) Lane Configuration

**Peak PM (2:00 PM – 7:00 PM)**

- 8’ ± PARKING
- 11’ ± BUS ONLY + RIGHT-TURN ONLY
- 11’ ± GENERAL TRAVEL LANE
- 11’ ± MBTA RIGHT OF WAY WORK ZONE

**Non-peak PM (outside the hours of 2:00 PM – 7:00 PM)**

- 8’ ± PARKING
- 11’ ± GENERAL TRAVEL LANE
- 11’ ± TEMPORARY EXPANDED WORK ZONE
- 11’ ± MBTA RIGHT OF WAY WORK ZONE

Beacon St. Eastbound (EB) Lane Configuration

**Peak AM (6:00 AM – 10:00 AM)**

- MBTA RIGHT OF WAY WORK ZONE
- 11’ ± GENERAL TRAVEL LANE
- 11’ ± BUS ONLY + RIGHT-TURN ONLY
- 8’ ± PARKING

**Non-peak AM (outside the hours of 6:00 AM – 10:00 AM)**

- MBTA RIGHT OF WAY WORK ZONE
- 11’ ± TEMPORARY EXPANDED WORK ZONE
- 11’ ± GENERAL TRAVEL LANE
- 8’ ± PARKING
Prior to Construction
- GRN LINE WORK AT BEACN ST
- BEACN ST TRAFFIC CHANGE
- BEGINS DAY DATE
- BEGINS DAY DATE

During Construction
- GRN LINE WORK AT BEACN ST
- BEACN ST BUS/BIKE RIGHT LANE
- SEEK ALT ROUTE
- ALL OTHER TRAFFIC LEFT LANE
28 Day Timeline | Sequence of Work

| Work Location* | 7/5 | 7/6 | 7/7 | 7/8 | 7/9 | 7/10 | 7/11 | 7/12 | 7/13 | 7/14 | 7/15 | 7/16 | 7/17 | 7/18 | 7/19 | 7/20 | 7/21 | 7/22 | 7/23 | 7/24 | 7/25 | 7/26 | 7/27 | 7/28 | 7/29 | 7/30 | 7/31 | 8/1 |
|----------------|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1 St. Marys Street to Portal               |
| 2 Coolidge Corner East and West            |
| 3 Tappan Street Station                    |
| 4 Dean Road Intersection                   |
| 5 Cleveland Circle to Englewood Ave.       |
| 6 Coolidge Corner - Harvard St.            |

*The schedule for this infrastructure project is weather dependent and subject to change without notice.
Coolidge Corner East & West | Monday, July 6 – Monday, July 13

Non-Peak: Left Lane Closure Westbound & Left Lane Closure Eastbound
Dean Road/Tappan Station | Monday, July 13 – Friday, July 17 - Monday, July 20

Dean Road Weekend Closure & Left Lane Westbound; Tappan Station 5-Day Left Lane Closure Eastbound
Cleveland Circle to Englewood | Wednesday, July 15 – Monday, July 27

Non-Peak: Left Lane Closure Ayr Road to Englewood Ave.
5 Day Left Lane Closure (Westbound & Eastbound)

Single EB Lane Closure for duration of weekend 7/24 - 7/27

Single WB Lane Closure for duration of weekend 7/24 - 7/27

MBTA BUS ROUTE 66 DETOUR

WORK AREA (PUBLIC ACCESS RESTRICTED)

TRAFFIC SIGNAL

LEGEND

BEACON ST WB TO BEACON ST EB
BEACON ST EB TO BEACON ST WB
MBTA BUS ROUTE 66 DETOUR
WORK AREA (PUBLIC ACCESS RESTRICTED)
TRAFFIC SIGNAL
Stay Connected

Ask Questions and Be Informed

✓ Contact GLT@mbta.com
✓ Call 24/7 noise hotline: 508-676-3517
✓ Follow on social media
✓ Subscribe to alerts mbta.com/alerts
✓ Check website for up to date info
✓ Ask a Customer Service Agent

Alternate Routes and Transit Options

✓ Regular service replaced by shuttle buses
✓ Accessible pedestrian pathways well-marked during closure
✓ Advanced messaging signage for drivers
✓ Expanded Bluebike locations
✓ Plan ahead: mbta.com/glcwork

Contact us at: GLT@mbta.com
www.mbta.com/GLT
Thank You!
Public Comment | Next Steps

Please share only one question or comment at a time

- Use the “Q&A” button to submit a typed question or comment
- Press the “Raise Hand” button to share your question or comment verbally. Wait for the moderator to recognize and unmute you before speaking.
- If you have joined by phone only, you may “raise your hand” by pressing the star button and then nine (*9)

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

Comments may also be sent to GLT@mbta.com