GREEN LINE EXTENSION PROJECT
Agenda - Meeting #38

• Welcome & Safety Moment
  ➢ Terry McCarthy, MBTA – GLX Deputy Program Director, Stakeholder Engagement

• Construction Update
  ➢ Jeff Wagner, GLXC Public Involvement Manager

• Q & A
  ➢ All
MBTA Update

➢ Terry McCarthy, GLX Deputy Program Manager, Stakeholder Engagement
<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Venue</th>
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<tbody>
<tr>
<td>Tuesday, January 5, 2021</td>
<td>8:30 to 10:00 a.m.</td>
<td>Virtual Meeting</td>
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<tr>
<td>Tuesday, February 2, 2021</td>
<td>4:00 to 5:30 p.m.</td>
<td>Virtual Meeting</td>
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<tr>
<td>Tuesday, March 2, 2021</td>
<td>8:30 to 10:00 a.m.</td>
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<td>Tuesday, April 6, 2021</td>
<td>4:00 to 5:30 p.m.</td>
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<td>Tuesday, May 4, 2021</td>
<td>8:30 to 10:00 a.m.</td>
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<tr>
<td>Tuesday, June 1, 2021</td>
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<td>Tuesday, July 6, 2021</td>
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<td>Tuesday, August 3, 2021</td>
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<tr>
<td>Tuesday, September 7, 2021</td>
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<td>Tuesday, October 5, 2021</td>
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<td>Tuesday, November 2, 2021</td>
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<td>Tuesday, December 7, 2021</td>
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We are Above the Anchor Bolts

GLX Moving into Revenue Service 2021
Catenary Pole Foundation
Gilman Sq. Station
Rail Activation Elements

- Overhead Contact System - OCS
- Traction Power Substation - TPSS
- System wide Electrical
- Fire Alarm (FL&S)
- Signals
- Conveyance
- Mechanical
- Track
- Communications
Noise Mitigation Update

➢ John Weston, GLX Senior Noise Consultant/HMMH
“Monitor Noise after service starts (with the proposed mitigation in place) to evaluate whether the actual noise levels correspond with the modeled values and take appropriate corrective actions if the actual values are found to be higher than the projections.”

• MBTA will measure noise conditions after construction is complete and the service is in operation.

• A sampling of locations will be identified for measurements based on background noise conditions and land use.

• Monitoring will evaluate changes in project-based noise and background noise.

• Comparisons of measured noise levels with modeled noise levels and mitigation commitment levels will be conducted.

• Corrective actions will be taken where discrepancies are found

Similar commitment was made and process will be conducted for Vibration
GLX Noise Mitigation (2)
Post-project Noise Monitoring

• For each wall constructed, we have identified one or more zones that will have similar or related noise reduction benefits from the wall. (Monitoring Zones)

• We have also identified Monitoring Zones along the corridor where noise abatement was not proposed because anticipated noise impacts did not necessitate abatement.

• Upon project completion (after Green Line service start up) noise measurements will be conducted to determine actual noise levels within each Monitoring Zone (35 locations).

• Noise levels are identified using a Day-Night Noise Level (L_{dn}) in A-weighted decibels (dBA) – This provides an average noise level over an entire 24 hour period.
GLX Noise Mitigation (3)
Post-project Noise Monitoring

• Monitoring results will be compared to modeled noise levels to determine if actual noise levels are consistent with modeled levels.

• In cases where measurements and modeling do not align, evaluation will be conducted within the Measurement Zone to identify if resulting noise levels at any of the homes are above the impact criterion level and if the noise wall did not provide the designed abatement.

• In cases where appropriate noise mitigation has not been provided, assessment of causes will be conducted to determine possible actions for additional abatement.
GLX Noise Mitigation (4)
Post-project Noise Monitoring
GLX Noise Mitigation (5)
Post-project Noise Monitoring

Example: Berwick Street location

<table>
<thead>
<tr>
<th>Existing Noise Level before project (Ldn)</th>
<th>Without Mitigation (Ldn)</th>
<th>Insertion Loss (dBA)</th>
<th>Criterion Limit (Ldn)</th>
<th>Estimated with Mitigation (Ldn)</th>
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</thead>
<tbody>
<tr>
<td>78</td>
<td>79</td>
<td>12</td>
<td>78</td>
<td>67</td>
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GLXC Construction Update

➤ Jeff Wagner, GLX Public Involvement Manager
Safety – Winter Challenge of Slips, Trips & Falls

• Winter storm on Dec. 17 created many challenges across 5-mile construction zone
• Had at least one knee injury related to a fall on frozen ground
• Snow and ice create unique challenges across an open construction zone
• Goal is to get as much material off the ground & markers in place before snow hits
• While most field personnel worked straight through the end of the year we are reinforcing need to use caution while walking and operating equipment in work zone.
Recent Project Milestones – Last Deck Pour

- 50th deck and final deck pour completed Dec. 4
- Span MLV 34 is behind Brickbottom Condominiums
- Concrete deck pours started in fall 2019
Recent Project Milestones – TyBot Demo

- Tybot demo conducted on span MLV 34 prior to final pour
- Thousands of pieces of rebar require wire tying
- Tybot could replace hand operated tool for wire-tying
Recent Project Milestones – Ballast Placement on Viaduct

• Dec. 15 & 16 the first section of viaduct received ballast following water proofing
• 840 tons of ballast placed
• Track placement now underway
Recent Project Milestones – Viaduct Track Placement
Recent Project Milestones – Track Placement

• Green Line track is now being placed between Lowell St. and Broadway
Station Construction

- Station platform work continues to advance across all 7 new stations
Station Construction (cont.)

Gilman Square Station
Magoun Square Station
Ball Square Station
Medford/Tufts Station
Bridge Construction & Modification

Medford St.  School St.  Lowell St.  Cedar St.
Traction Power Substation Construction

Red Bridge

Pearl St.

Ball Square
Vehicle Maintenance Facility

- The building is weather tight. Work focused on interior.
• Transportation Building interior work is advancing
Retaining Walls

- Wall systems continue to advance between Cross St. and Broadway Bridge
- Noise wall panel placement continues mostly at night
Community Path

- Deck work on the viaduct portion of the Path underway
- Work will continue through the winter as weather allows
Outreach – Hotline Responses

• 1676 inquiries thru Hotline, e-mail or direct contact with outreach staff project to date. 34 contacts received in December.
• 30 actions closed out
Community Connection Team

- Collected presents for MBTA Fill-A-Bus Program and gift cards for the Medford Family Network. More than $600 raised
- Red Cross Blood Drive Planned for Jan. 29 @ 200 Inner Belt
Q & A