



massDOT
Massachusetts Department of Transportation



Agenda

Welcome & Introduction

- Terry McCarthy, GLX – MBTA

GLX Noise Analysis and Mitigation

- John Weston, HMMH

Construction Update

- John West, GLXC



Noise

GLX Noise Analysis and Mitigation

➤ John Weston, HMMH

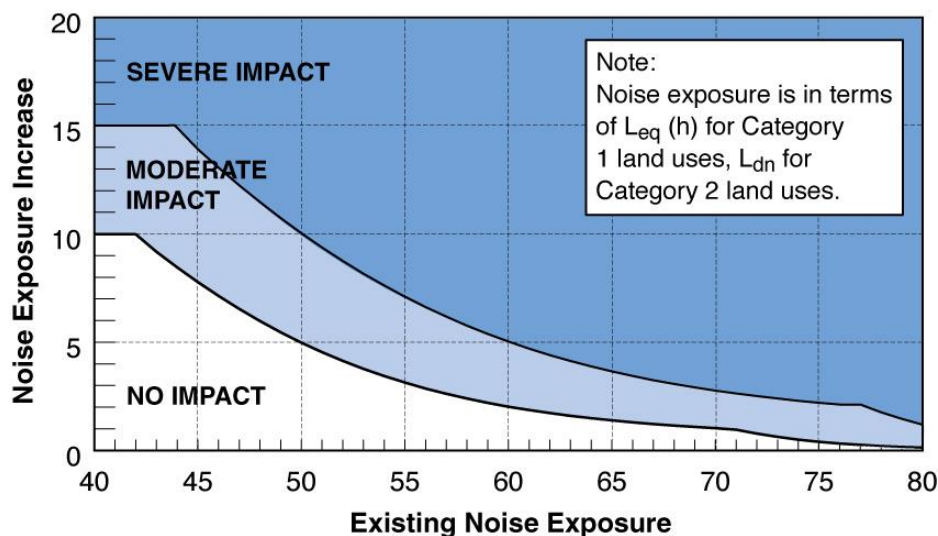


GLX Noise Mitigation

FTA Guidelines for Assessing Noise Impact

Noise impact is assessed by comparing existing noise levels to potential future increases in noise

- Future noise levels take into account:
 - ☐ Number of train events
 - ☐ Whether events occur during day or night
 - ☐ Noise level of each train event
- Existing noise levels are generally 65 to 80 Ldn



- Prior to mitigation, noise conditions would generally increase:
 - A few decibels where there are existing commuter trains
 - Approximately 10 dB in areas where there are no existing commuter trains

GLX Noise Mitigation

Noise Mitigation Commitments

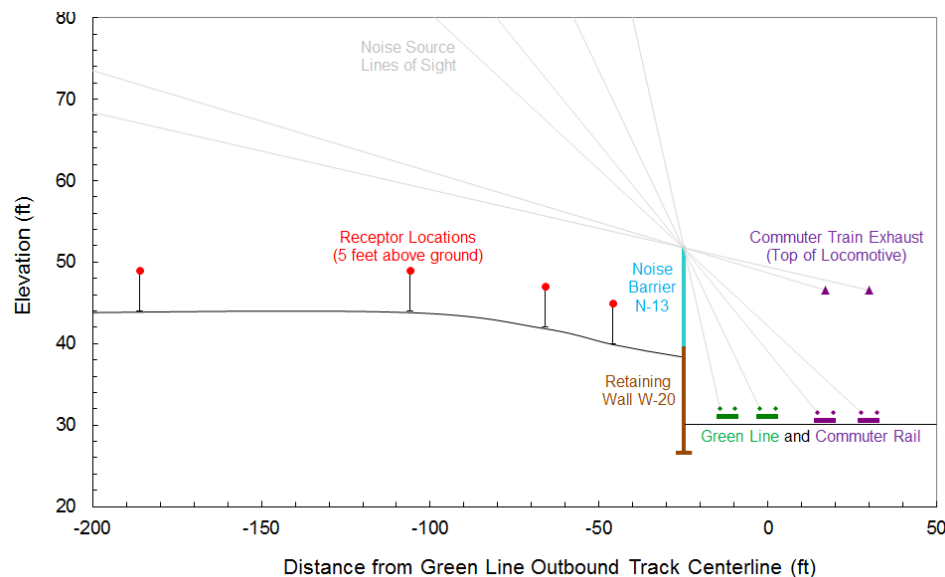
- Mitigate all severe impacts at sensitive noise receptors.
- Provide mitigation for moderate noise impacts where existing day-night sound levels (Ldn) are above 65 dBA.
- Provide mitigation for impacts with no significant outdoor land use if interior noise levels are above 45 dBA from project sources or single-event maximum noise levels (Lmax) are above 65 dBA.
- A combination of noise barriers and sound insulation will be provided to mitigate project noise impacts

GLX Noise Mitigation

Noise Barriers

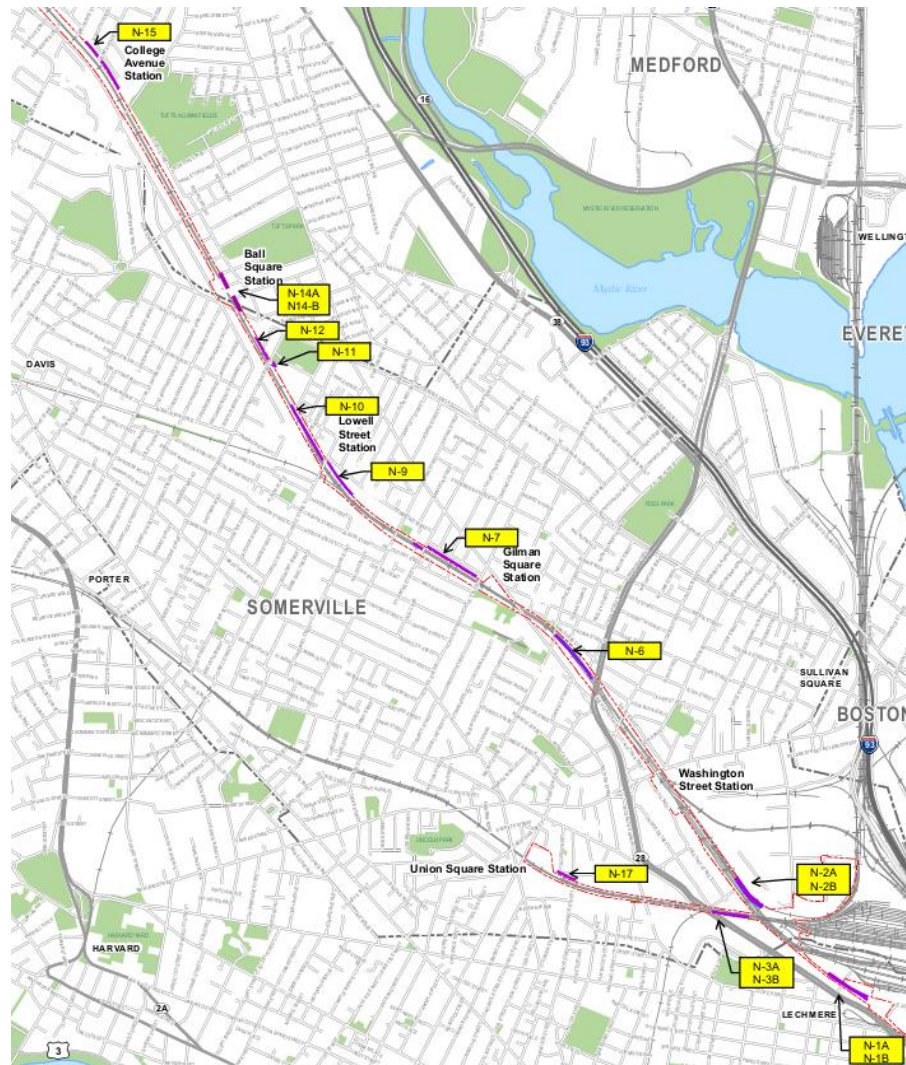
Noise barriers are the preferred means of noise mitigation where feasible and effective

- Noise barrier design goals are to:
 - Reduce noise levels below severe criteria
 - Reduce noise 5 dB or more at impacted receptors
 - Block the line of sight from significant train noise sources
 - Minimize reflected noise by using absorptive treatment on track side of barrier



- Future noise levels are expected to be lower than existing noise levels with the noise barriers at most locations along the existing commuter lines

GLX Noise Barriers



GLX Noise Mitigation

Sound Insulation

- Sound Insulation is means of noise mitigation where noise barriers are not feasible and effective.
- Sound Insulation typically consists replacing windows and doors on side of building exposed to increased noise levels. Eligibility/effectiveness depends on existing condition and configuration of the building.
- Planned approach is for the home/building owner to contract the work and MBTA to reimburse costs.
- Locations of buildings for evaluation
 - Hampton Inn (Cambridge)
 - Outside the Lines Studio (Medford)
 - 240 Pearl Street Apartments
 - 58 Sycamore Street
 - 4 Residential Buildings on Alston St.
 - 8 Residential Buildings in Auburn Ave./ Avon Place / Cross St. area
 - 19 Residential Buildings on Boston Ave. (just south of Broadway)



GLX Noise Mitigation

Post-project Noise Monitoring

“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 projected noise levels and mitigation commitment levels will be conducted.
- Corrective actions will be taken where discrepancies are found

Construction Update

GLX-C Construction Update

➤ John West, GLXC



Safety Week (May 6 – 10)



Safer Together!



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Broadway Bridge

Construction Update



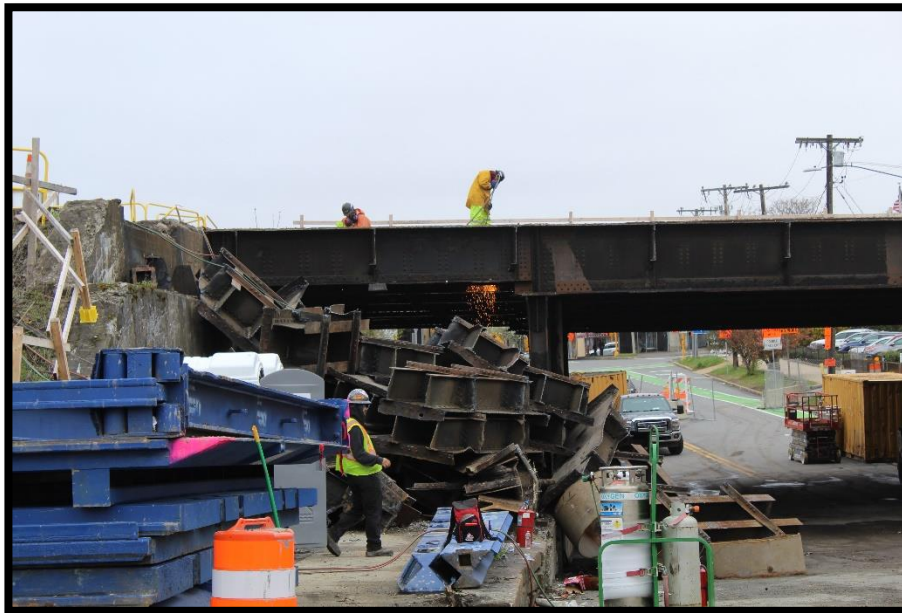
Temporary shoring for foundation work on the new bridge continues on the east side of the alignment

Washington Street Bridge

Demolition and Construction Update

Phase I Closure – April 8, 2019 to November 2019

Phase II Closure – Spring to Fall 2020



Medford St. Bridge

Demolition and Construction Update

- Bridge to close approximately 6 weeks early helping Somerville HS construction and GLX Project
- Outreach campaign currently underway



Demolition Update

Homans Building

- Demolition completed with last section of building coming down during weekend shutdown of Medford St. on Saturday, April 6.
- Debris and foundation removal completed following week.



Demolition Update

Ball Square

- Demolition, debris and foundation removal complete



Project Status

Construction Update

Boston Engine Terminal (BET) Area

- Viaduct work continues with frequent night and weekend work



Project Status

Construction Update

Lechmere Area

- One drilling crew will begin to mobilize later this month near the existing viaduct and Glass Factory Condominiums & AVA/Avalon Apartments and start working their way toward Water St.
- A 2nd crew is working their way from BET toward Water St.



Project Status

Construction Update – Walls Between McGrath Hwy – Walnut St.

- Noise Wall N-6 awaiting panel installation to start in June



Project Status

Construction Update – Walls Between Lowell – Cedar St.

- Drainage installation and Wall ME-2 & Noise Wall N-10 drilling underway



Project Status

Construction Update – Walls Between Cedar St. - Broadway

- Site prep continues for ME-2.1/ Noise Wall N-12



Project Status

Construction Update – Walls Between Broadway – Harvard Ave.

- Drilling for post placement at ME-2.4/noise wall N-14A & N-14B



Project Status

Construction Update – Walls Between College Ave. – Winthrop St.

- Posts being placed for Noise Wall N-15



Project Status

Moles Boston Students Day Tour of GLX Project

Wednesday, April 10

- Nearly 200 college students and Moles members
- Schools: Wentworth, UMASS Amherst, Worcester, Poly Merrimack, Tufts & Northeastern
- 30+ GLX members served as tour guides, construction station leads and support



Project Status

GLX Project Community Connection Team

Spring Food Drive

- 300 pounds of food delivered to Project Soup in Somerville



The GLX Community Connections Team
PRESENTS

Project Soup

SPRING

FOOD DRIVE

MOST WANTED
Peanut Butter
Toiletries
Oil
Coffee

HELP END HUNGER IN SOMERVILLE

BRING UNEXPIRED - NONPERISHABLE FOOD ITEMS

FOOD DRIVE **MAR 22** **APR 18** **FOOD DRIVE**

Drop Off Locations: GLXC Main Office (2nd floor lobby)
GLX Office (3rd floor lobby)
or 35 Charlestown St.

Project Status

GLX Project Community Connection Team

Somerville Spring Cleanup

- 500 pounds of trash removed from Community Path, Somerville Dept. of Public Works, Trum Field, Innerbelt and future Union Square Station.





Discussion

Terry McCarthy, GLXC





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GLX Community Working Group
Monthly Meeting
May 7, 2019