



**Massachusetts Bay
Transportation Authority**

Safety Engineering Update

MBTA Board of Directors – Safety, Health and Environmental Sub-Committee

May 11, 2023

Steven V. Culp, Chief of Safety Engineering and Construction

Safety Certification – Overview

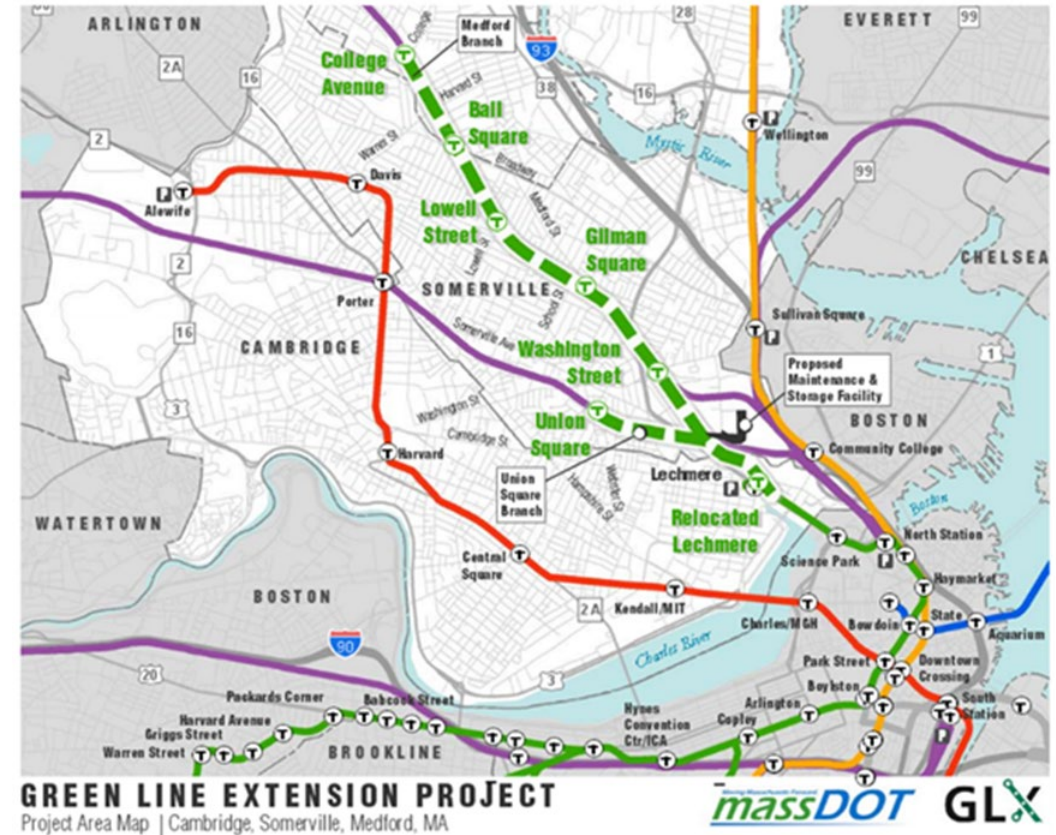
- To support MBTA's #1 Priority – Safety
- Purpose: Ensure that safety concerns and hazards are adequately addressed prior to final completion.
- Process includes working with project teams for the:
 - Identification of specific safety requirements from project specifications
 - Development of Certifiable Items Lists (CIL)
 - Verification of compliance with the MBTA Safety Plan, appropriate codes, guidelines, standards, and design criteria
 - Identification and resolution of non-compliance (open items)
 - Final sign off and certification letter



Safety Certification Activities

- Since December 1, 2022, MBTA Safety in conjunction with the project teams has performed the Safety Certification of:

- Green Line Extension – Medford Branch
- Everett Bus Maintenance Facility Basement Fill
- Kendall/MIT Southbound Headhouse
- Gloucester Draw Bridge – Track 2
- Quincy Bus Maintenance Facility Shared Use Path
- Roofing Projects
 - ❖ Albany Bus Garage
 - ❖ Charlestown Rail Fabrication Building
 - ❖ Charlestown Cashier Building
 - ❖ Charlestown Bus, Fuel, Wash, and Storage Building
 - ❖ Edward V. Connolly Equipment and Repair Facility
- New Flyer XDE60 Buses – Conditional*
 - ❖ 1307
 - ❖ 1317
- Orange Line Cars – Conditional*
 - ❖ 1468-69
 - ❖ 1470-71
 - ❖ 1472-73
 - ❖ 1478-79
- Hyundai-Rotem Bi-Level Coaches



*Conditional Safety Certifications indicate these specific vehicles have met the criteria, but the project will not be certified until the procurement of all vehicles is complete, including documents, tools, and training.



Engineering Team – Special Directive 22-9

- Performing a workforce assessment to identify additional needs
 - Pre-emptive (pre-formal assessment) hiring measures
 - ❖ Safety Certification – Three additional System Safety Specialists
 - ❖ Construction Safety – Three additional System Safety Specialists
- Meeting our mission need with present staffing and supplemental consultant resources
- Updating Safety Certification Procedures



Conclusion

Questions?

