

Project Update August 2019





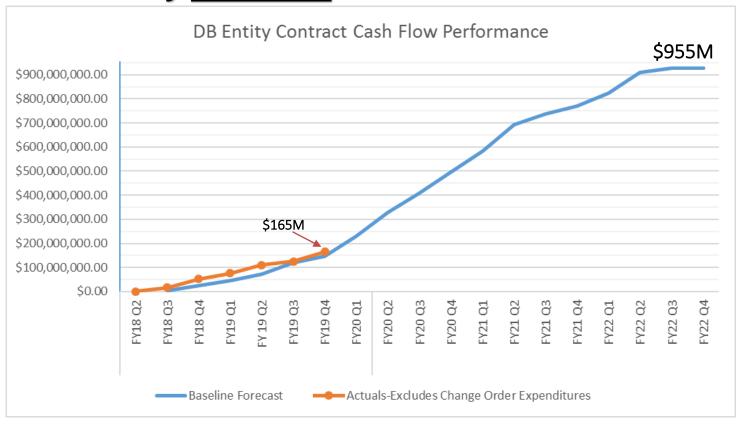
Agenda

- Program Control Metrics
- Significant Active Work Areas / Site Conditions
- Job Progress / Photos
- Schedule Pressures / Risks



Initial Performance Indicator – Dashboard Graphics

DB Entity Contract Cash Flow Performance



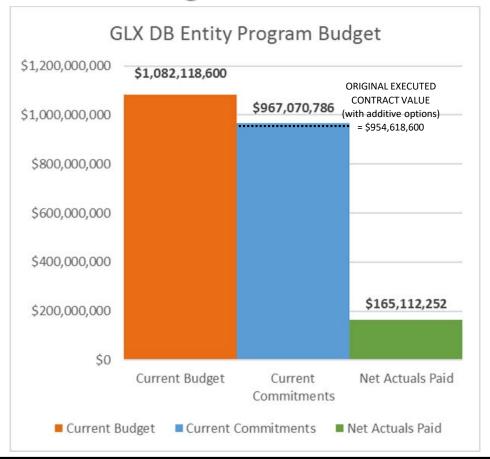
^{*} Updated Quarterly. Data as of 6/26/19.





Initial Performance Indicator – Dashboard Graphics

DB Entity Contract Budget vs Commitments vs Actuals



^{*} The graph above shows the status of the largest GLX Cost Center = the DB Entity Base Contract Value (\$967M in blue), in addition to the MBTA Owner Contingency Value (for the DB Contract in orange). The \$165.1M of Paid (green) includes DB Entity Invoices 14 and 15 for \$14.5M and \$18.2M respectively, paid by the MBTA in June 2019.



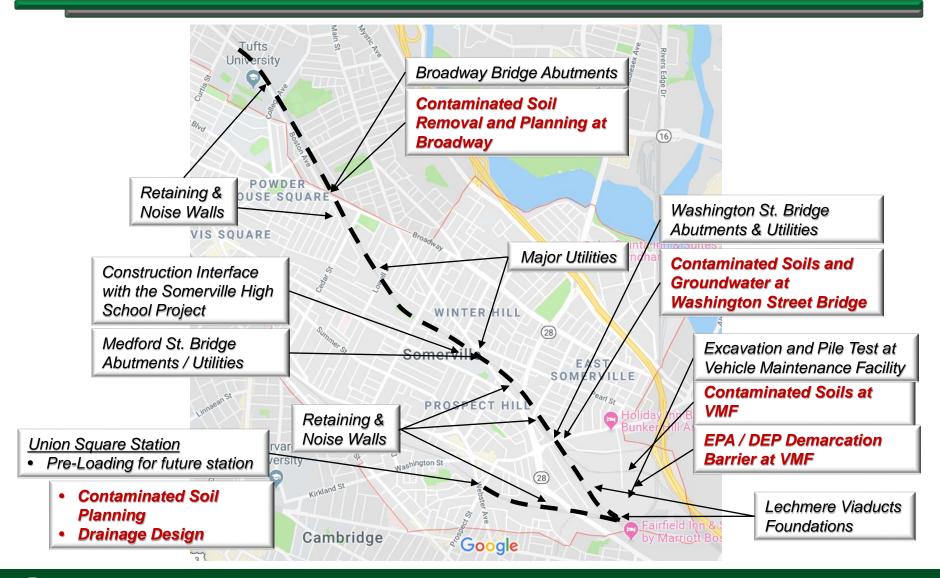


Work Fronts / Site Conditions





Significant Active Work Areas









Viaduct Foundation Work





Broadway Bridge

- Permanent foundation work commences this month
- New bridge deck steel fabrication underway







Washington St. Bridge

- New north and south abutments have been poured
- Drainage work continues; structural steel delivery next month









Sub surface drainage work continues (existing and new)





Vehicle Maintenance Facility

- 270 foundation piles being driven
- Site grading to continue; drainage work underway







Noise & Retaining Walls Between McGrath Hwy – Walnut St.

Awaiting panel installation

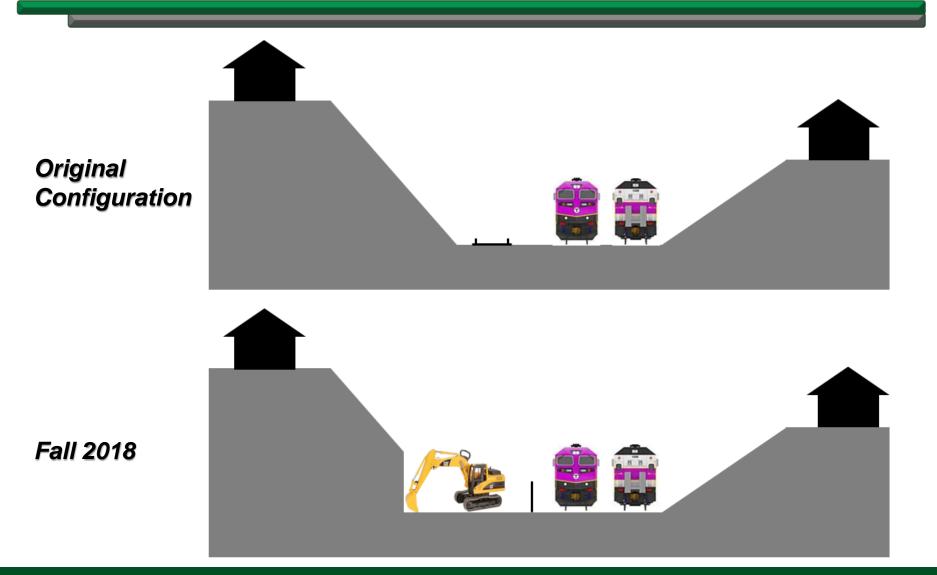




Retaining & Noise Walls



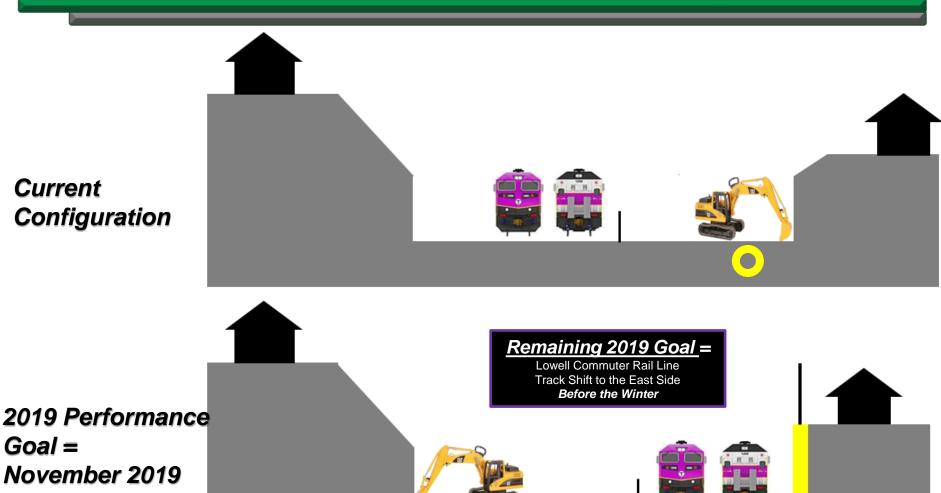
Construction Sequencing







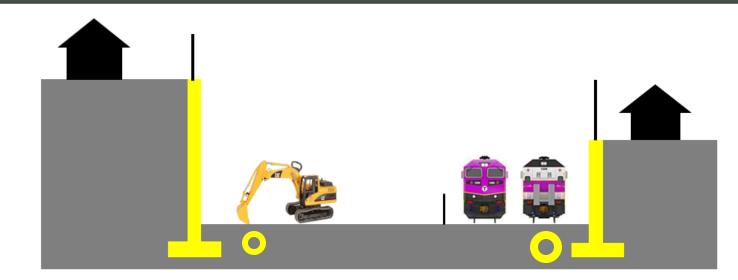
Construction Sequencing







Construction Sequencing



New Green Line In Service

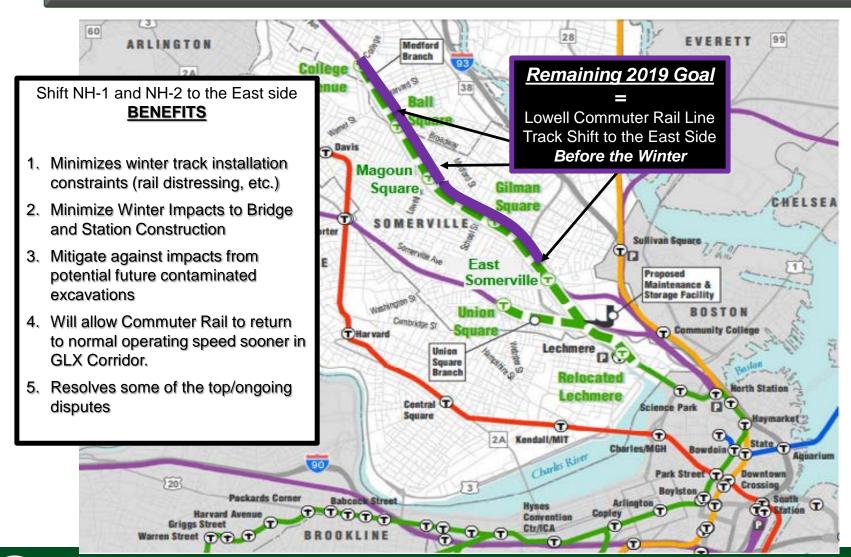
2020 / 2021







Remaining 2019 Performance Goal







Schedule Pressures





Project Schedule Highlights

		From Board Presentation March 2017	Statused
1.	Federal Transit Administration (FTA) Risk Refresh	1/25/17 -1/26/17	1/25/17 – 1/26/17 (Actual)
2.	Issue Request for Proposals for DB Shortlist	3/14/17	3/14/17 (Actual)
3.	Hold One-on-Ones	3/28/17 - 4/20/17	3/28/17 - 4/20/17 (Actual)
4.	Alternative Technical Concept (ATC) Process	6/8/17 – 8/9/17	6/8/17 – 8/9/17 (Actual)
5.	Design Build Proposals Due	9/28/17	9/28/17 (Actual)
6.	Bid Opening/Select Design Build Entity	11/28/17	11/28/17 (Actual)
7.	Notice to Proceed to Design Build Entity	2/9/18	* 12/20/17 (Actual)



^{*7-}weeks earlier than the original schedule to create schedule benefit from 2018 construction season

Current Schedule Pressures

		From Board Presentation March 2017	Statused
1.	Federal Transit Administration (FTA) Risk Refresh	1/25/17 -1/26/17	1/25/17 – 1/26/17 (Actual)
2.	Issue Request for Proposals for DB Shortlist	3/14/17	3/14/17 (Actual)
3.	Hold One-on-Ones	3/28/17 - 4/20/17	3/28/17/4/20/17 (Actual)
4.	Alternative Technical Concept (ATC) Process	6/8/17 - 8/9/17	6/8/17 – 8/9/17 (Actual)
5.	Design Build Proposals Due	9/28/17	9/28/17 (Actual)
6.	Bid Opening/Select Design Build Entity	11/28/17	11/28/17 (Actual)
7.	Notice to Proceed to Design Build Entity	2/9/18	* 12/20/17 (Actual)

Interim Milestones

Lowell Line Commuter Rail Track Shift

11/15/19 ** Goal

** Schedule recovery initiatives are in progress --- to avoid winter risks and to achieve contractual milestones dates





Schedule Pressure – Contributing Factors

- Design Progression
- DB Entity Organization Capacity (Planning and Resources)
- Slow Critical Path Progression on Primary Drainage Installation
- Differing Site Conditions (Contaminated Soils/Groundwater)
- Utilities and Subsurface Obstructions (disputed)
- Upcoming Winter Impacts on Track Work and Bridge Work
- Potential for additional Differing Site Conditions / Utility issues



Project Schedule Recovery Initiatives

- Enforcement of Contractual Deliverables/Milestones
- Accelerated Design Reviews / Design Package Breakout
- Additional resources (staffing and equipment)
- Longer work hours (additional shifts, weekends, night work)
- DB Entity Working 'at-risk'
- Supportive Engagement with RR Operations / Keolis
- Rail Road Operations Considerations (Improved/Larger Work Zones and improved safety)



Other Commuter Rail Road Operations Objectives

- Common Goal for getting Lowell Line tracks over to permanent alignment before the Winter.
- Will allow for
 - a sooner-than-planned return to Maximum Allowable Speed in the GLX corridor (trains currently operating at a reduced speed through the work zone)
 - minimized disruption Commuter Rail passengers / Amtrak
 - a wider work zone and greater/safer separation between work activities and commuter operations





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