



Dulles Corridor Metrorail Project

Board Transportation Committee

June 29, 2021

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Phase 1

- Old Meadow Road Realignment
 - Minor punch list work associated with signalization is being completed mid/late June.
- VDOT Punch List
 - Dulles Connector Road (DCR) Shoulder Repairs
 - DEQ permit request underway.
 - Remaining Manhole/Structure Repairs
 - Work is ongoing
 - All remaining work is expected to be completed in Fall/Winter 2021.
- Phase 1 Close out - \$2.982B (no change)



Final RT123/OMR Intersection



RT123/OMR Complete



OMR Completed Landscaping

Phase 2

- Overall Phase 2 – 99% complete
- Budget
 - Total Budget \$2.778B
 - Total Expenditures \$2.449B

 - Total Contingency \$551.4M
 - Total Contingency Used \$402.3M
 - Remaining Contingency \$149.1M
- Timeline
 - Package A (Rail, systems, stations) completion – September 2021 (target)
 - Package B (Yard) completion – August 2021 (target)
 - Metro needs approximately 6 months after substantial completion to complete testing and open the system; Metro Board to establish Revenue Operations Date
 - Metro’s approved FY22 budget includes funding for the start of Phase 2 revenue service.



Traction Power Substation Low Voltage Testing



Performing Final Battery Inspections



Train Wash Testing

■ Current Activities

- Package A - Construction clean up and touchups at stations and guideway, testing and commissioning, training, repair verifications, punch list walks and final alignment of track and switches.
 - Fairfax County conducted punchlist walks on future County facilities
 - Maintenance Agreement anticipated to go before the Board in the fall.
- Package B (Rail Yard) – Testing, commissioning, and building punch lists, and software programming.

■ Automatic Train Control (ATC)

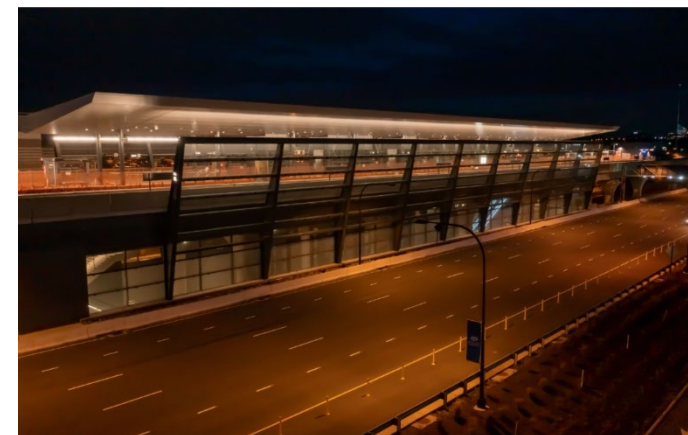
- Installation work on negative cross bonds is complete and regression testing was completed in May.
- Final tie in work for the third rail and dynamic testing is expected to continue in June. Train control testing expected in July.
- A weekend outage occurred on June 26-27 to complete the final tie in work between Phase 1 and Phase 2.



Trains at Rail Yard for Testing



Negative Cross Bond Rework



Completed Glass Windscreen

Ongoing Issues

Status	Issue
Unresolved	<ul style="list-style-type: none"> • Clearance at elevator machine rooms (Yard) • Station platform pavers • Turntables (Yard)
Underway	<ul style="list-style-type: none"> • Uninterruptable Power System exhaust fans (Yard) • Car hoists • Surge arrestor failures • Precast panels (Yard) • Fuel center slabs • Tight gauge at switches (Yard) • Cracked impedance bonds • Direct fixation fasteners • Third rail insulators • Cover brackets • Distances between insulated joints and signals (Yard)
Completed/Resolved	<ul style="list-style-type: none"> • Fouled Ballast • Concrete Panel Deficiencies • Concrete Ties/Cross Level Deficiencies • Line of Sight to Track Signals • Non-Compliant Snow Melter Calrods • Embedded Track Deficiencies (Yard)



Dulles Rail Yard



Screening Ballast to Remove Fines



Thermite Welding Replacement Insulated Joint 'Plug' in Place

Fairfax County Parking Garages

Herndon Station Garage – Completed April 2019

- Total Project Estimate: \$44.5M (org. \$56.7M)
- Bus loop repaving was completed in July 2020.
- Architectural panel replacement is being completed by the contractor.



Herndon Bus Loop

Innovation Center Station Garage

- Total Project Estimate: \$52M (org. \$57M)
- Construction Progress:
 - Substantial completion date: June 2020.
 - Limited punch list work ongoing.

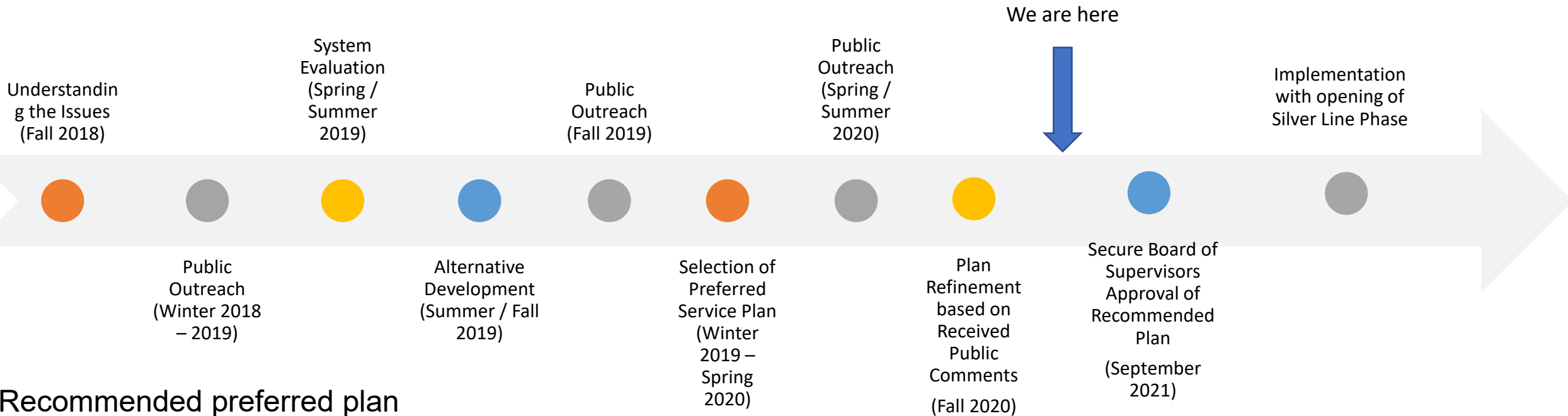


Innovation Garage



Bioretention pond & boardwalk

Silver Line Phase 2 Bus Service Plan



Recommended preferred plan

- Reflects the completion of Silver Line Phase II
- New connections and routes
 - Chantilly/Centreville to Dulles Corridor; NVCC (Loudoun Campus); Sterling to Herndon
- Creates more direct connections; Shortens travel time
 - Increases access to transit dependent population and employment
 - Maintains significant bus stop coverage
- Title VI analysis:
 - Evaluated impacts of proposed changes on minority and low-income riders

Public outreach

- Various stakeholder and working group briefings, June 2020
- Conducted virtual public meeting in July 2020
- Online survey, with 200+ comments received
- Resolving outstanding comments
- Board briefed on December 8, 2020
- Board consideration of recommended plan in Sept 2021

Action Items

- FCDOT continues to work with Phase 2 project partners to encourage the resolution of any outstanding construction quality issues.

Does the Board desire any further action to address the outstanding construction quality issues?