

Northern Bus Garage Reconstruction Project



**Fall 2021 Community Update
Meeting**

September 21, 2021



Meeting Etiquette

Metro wants to hear from you. Here are a few guidelines to keep this meeting productive and to maintain respect for all participants:

- You will have an opportunity to ask questions following each section of the presentation.
- To ensure we hear from as many community members as possible, please adhere to the Q&A protocol:
 -  Request to speak by typing your name in the chat
 -  Type questions directly into the chat
- When speaking:
 - Maintain a civil tone
 - Be mindful of time so that your fellow community members can share their feedback

Anyone in violation of the meeting etiquette guidelines will be muted for the duration of the meeting.

Agenda

- ❑ Introductions
- ❑ Project Overview and Updates
- ❑ Environmental Management: Overview and Status
- ❑ Art in Transit: Perimeter Fencing and Permanent Artwork
- ❑ Metro's Zero-Emission Bus Update
- ❑ What to Expect in Late 2021 and Early 2022

Introductions

Northern Bus Garage Reconstruction Project

Project Team

- ❑ Diana Levy, Director Capital Delivery WMATA
- ❑ Jim Ashe, Environmental Coordinator WMATA
- ❑ Laurent Odde, Art in Transit Manager WMATA
- ❑ Amy Mesrobian, Director, Zero-Emission Vehicles WMATA
- ❑ John Munson, Project Manager Clark Construction
- ❑ Sean Beachy, Design Manager Wendel

Project Overview and Updates

Northern Bus Garage Reconstruction Project

Project Events Overview: Q2 2021

- July 2021
 - DDOT Public Space Committee Hearing - Approval
 - Foundation Test Pitting & Load Testing completed
 - 75% Design Package Reviews
 - Section 106 Consulting Parties meeting
- August 2021
 - Progressing Design Plans to 90%
 - Meeting with DC Water
 - HPO Continuing Reviews
 - Art in Transit – Continuing Planning/Discussions
- September 2021
 - Meeting with ANC Leaders
 - Anticipated start of next phase of DOEE Soils & Water testing



Mayor's Agent Record of Decision

- Decision issued on September 17, 2021
 - Raze permit application approved by the Mayor's Agent
- Next steps for the project:
 - HPRB hearing to obtain final approval of design concepts
 - Commence NEPA process
 - Finalize and conclude Section 106 process



Northern Bus Garage Rendering

Agency Collaboration & Permitting Status

| Agency | Status |
|------------------------------------|--|
| DCRA | Demolition permit application – on hold pending Mayor's Agent determination |
| HPO (Historic Preservation Office) | Review of latest renderings to address comments |
| DDOT | Public Space Committee approval obtained |
| DC Water | Raze plans approved, new water/sewer plans in review |
| Pepco | Coordination of BEB electric service |
| DOEE | Coordination of additional environmental sampling, review of stormwater management |

Design Progress Update

- Design Package 1 (DP1)
 - DP1 consists of civil, underground utilities and services, landscape, grading, foundation and structure
 - 90% design submitted to WMATA on August 6
- Design Package 2 (DP2)
 - DP2 consists of mechanical, plumbing, electrical, building envelope, interior finishes and design
 - 90% submittal expected on October 19
- Demolition Design Package
 - Consists of utility abandonments, façade support, environmental remediation and demolition
 - Design Complete

Target Completion of Issue For Construction (IFC) Plans:
November 2021 and February 2022, respectively for DP1 and DP2



PSC Approval Covered:

- Structure Overbuild
- Driveways and Curb Cuts
- Sidewalks
- Landscaping/Street Trees
- Bike Racks, Benches, Trash Receptacles
- Streetlights & Traffic Signals
- ADA Ramps and Crosswalks
- Steps and Entrances
- Roadway Resurfacing & Marking
- SWM (Pending DOEE Approval)

July 26, 2021

Washington Metro Area Transit Authority
600 5th St NW
Washington, DC 20001

RE: 4600 – 4699 Block of 14th Street, NW,
4700 – 4799 Block of 14th Street, NW,
4700 – 4799 Block of Arkansas Avenue, NW,
4700 – 4799 Block of Iowa Avenue, NW and
1332 – 1399 Block of Buchanan Street, NW
Tracking Number: 365035

Dear Applicant:

On July 22, 2021, the District of Columbia Public Space Committee (PSC) **Approved** your application for Construction in public space for Fixture: Benches, Bike Racks: DDOT Standard, DDOT Standard Flagpole (Exception), Hand Rail (36" high for ADA, 30" –42" high other), Multispace Meter, Trash Receptacle, (Exception), Landscaping: Hedge to 36" tall, New Tree Space, Tree Planting, Tree Removal, Over Head Work: Streetlight Temporary Removal, Streetlight Installation, Paving: ADA Curb Ramp, Curb and Gutter, Driveway Circular, Driveway Close Existing, New Commercial Driveway Repair or Replace, Mill and Overlay, Roadway, Sidewalks, Projections: ADA Ramp (Exception – Not to Building Code), and Stoops and Steps in public space under the following conditions:

1. The PSC approved on the Consent agenda.

Failure to meet all requirements, modifications, and conditions set out in application and this approval; fully execute the application; and obtain the issued permit within six (6) months of the date of this letter will result in the cancellation of your application. If your application is cancelled, it may be permanently withdrawn from future consideration by the Public Space Committee; you will be required to restart the process and submit a new application for the requested activity in the District's Public Space.

If you require further assistance with the processing of this application, please schedule an appointment with your assigned Technician, Ms. Catrina Felder at 202-442-4960 or by email at catrina.felder@dc.gov.

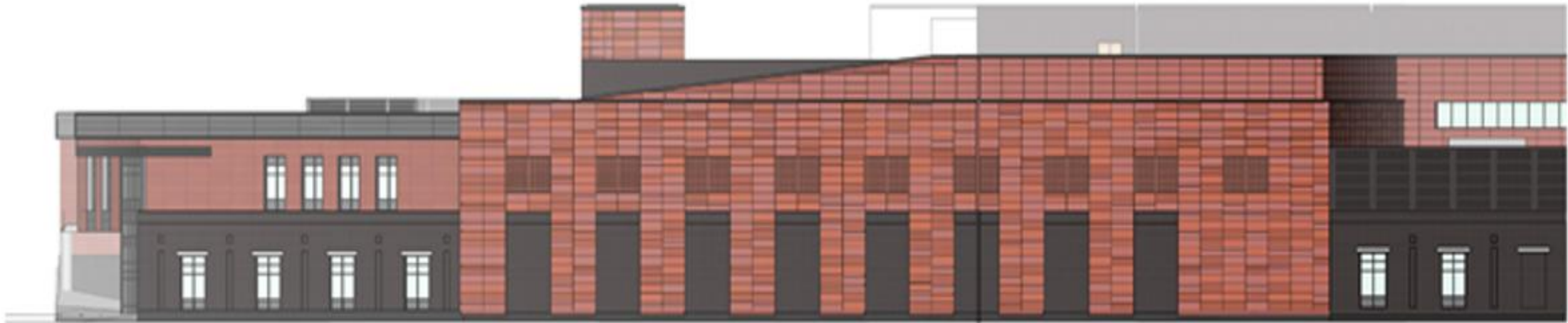
Thank you for your commitment to improving the District of Columbia's Public Space!

Sincerely,

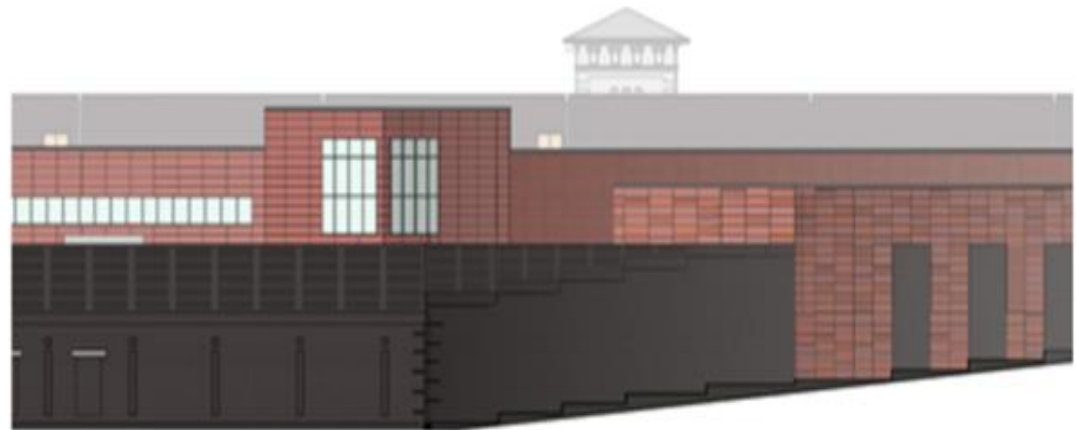
A handwritten signature in blue ink, appearing to read 'Elliott Maurice Garrett', is written over a blue horizontal line.

Elliott Maurice Garrett
Executive Secretary, PSC
ANC-4C02

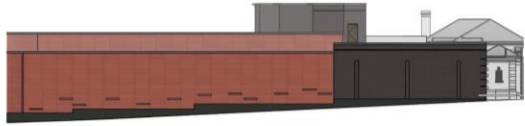
DC Historic Preservation Review Board



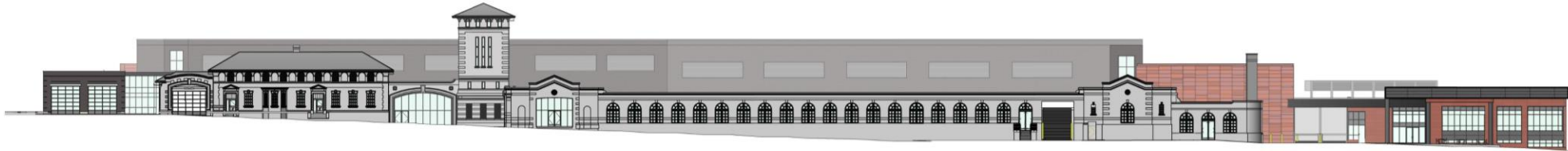
While awaiting the Mayor's Agent's determination, Metro continues to meet with representatives from the DC Historic Preservation Office and the community to refine the design



Overall Building Elevations



1 ELEVATION - OVERALL - NORTH
3/8" = 1'-0"



2 ELEVATION - OVERALL - WEST
3/8" = 1'-0"



3 ELEVATION - OVERALL - SOUTH
3/8" = 1'-0"



4 ELEVATION - OVERALL - EAST
3/8" = 1'-0"

Northern Bus Garage Reconstruction Project



VIEW 1



Northern Bus Garage Reconstruction Project



VIEW 2



Northern Bus Garage Reconstruction Project



VIEW 3



Northern Bus Garage Reconstruction Project



VIEW 4



Northern Bus Garage Reconstruction Project



VIEW 5



Northern Bus Garage Reconstruction Project



VIEW 6



Any Questions?

There are two ways to submit your questions



Request to speak by typing your name in the chat



Type questions directly into the chat

Environmental Management: Overview and Status

Northern Bus Garage Reconstruction Project

Environmental Review



Mayor's Agent

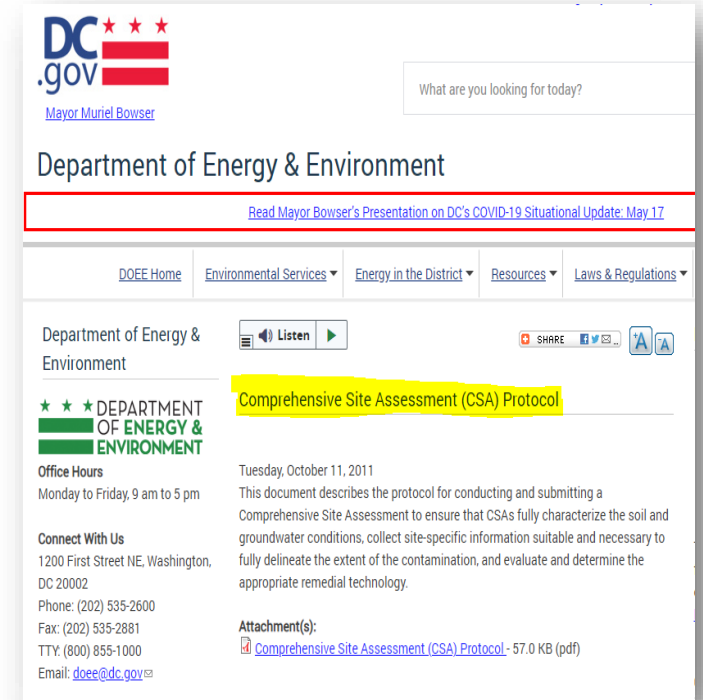
Section 106



Documented Categorical Exclusion

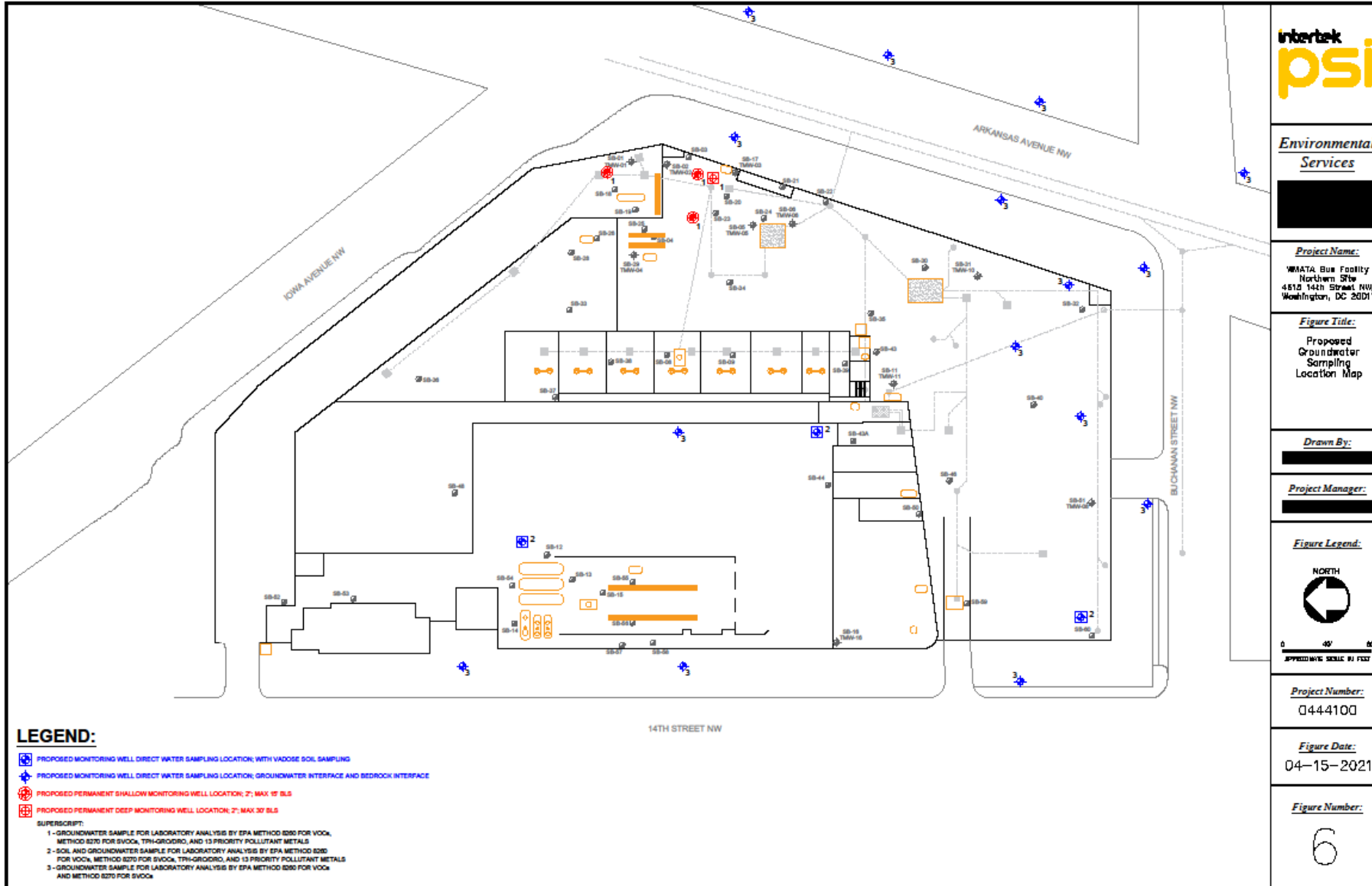
DOEE Collaboration

- Comprehensive Site Assessment (CSA) Work Plan
 - Approved May 2021
- Next steps:
 - Secure permits
 - Complete investigations and provide findings to DOEE in September



The screenshot shows the DC Department of Energy & Environment website. At the top left is the DC.gov logo with three stars and the name 'Mayor Muriel Bowser'. A search bar on the right asks 'What are you looking for today?'. Below the header is a navigation menu with links for 'DOEE Home', 'Environmental Services', 'Energy in the District', 'Resources', and 'Laws & Regulations'. The main content area features the department's logo and contact information on the left, and the title 'Comprehensive Site Assessment (CSA) Protocol' in a yellow box on the right. The date 'Tuesday, October 11, 2011' is displayed, followed by a paragraph describing the protocol. An attachment link for 'Comprehensive Site Assessment (CSA) Protocol - 57.0 KB (pdf)' is provided at the bottom.

Northern Bus Garage Reconstruction Project



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Art in Transit: Perimeter Fencing and Permanent Artwork

Northern Bus Garage Reconstruction Project

Art in Transit (AIT)

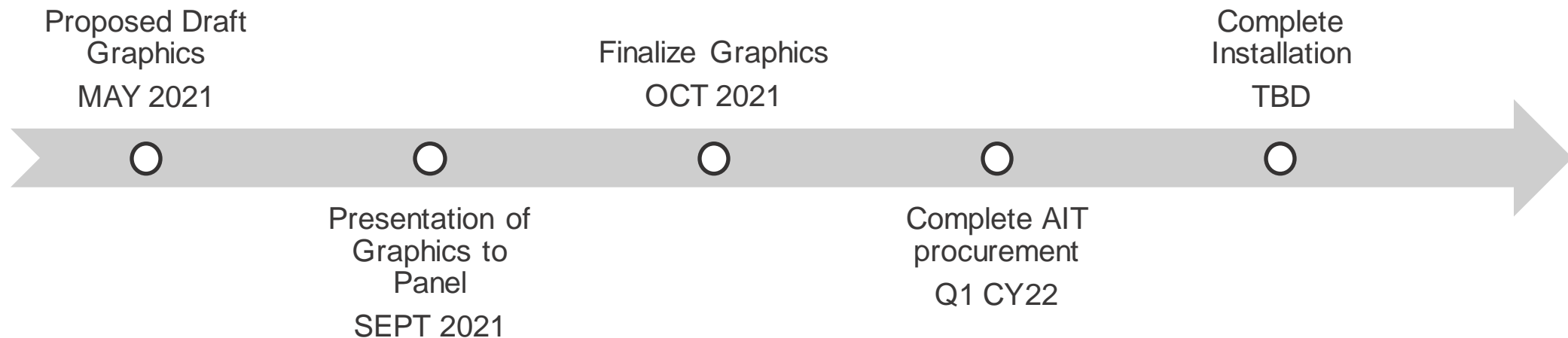
- Art in Transit Program incorporates artwork at stations and facilities to enhance public spaces for transit customers and the public, and develop art projects that reflect the spirit and vitality of communities it serves.
- Two different Art in Transit projects for Northern Bus Garage:
 - Graphics for temporary perimeter fencing
 - Permanent artwork



AIT: Perimeter Fencing

- Proposed Graphics developed by Metro's AIT graphic designer.
- Metro staff from AIT & Government Relations teams worked with panel of community representatives to review proposed graphics
- Graphics are being finalized based on feedback
- Metro will launch procurement process to produce and install graphics on the perimeter fence

Interim AIT Planned Timeline CY21 (subject to change)



AIT: Perimeter Fencing (Cont'd)

- +/- 15 panels repeated around perimeter including a mix of images and historical content associated with the neighborhood
- Idea behind graphic:
 - Evolution of public transportation
 - Celebrating & connecting the neighborhood
 - Social media moment
- The fencing will also serve to mitigate the visual impacts of construction



AIT: Perimeter Fencing Proposed Graphics



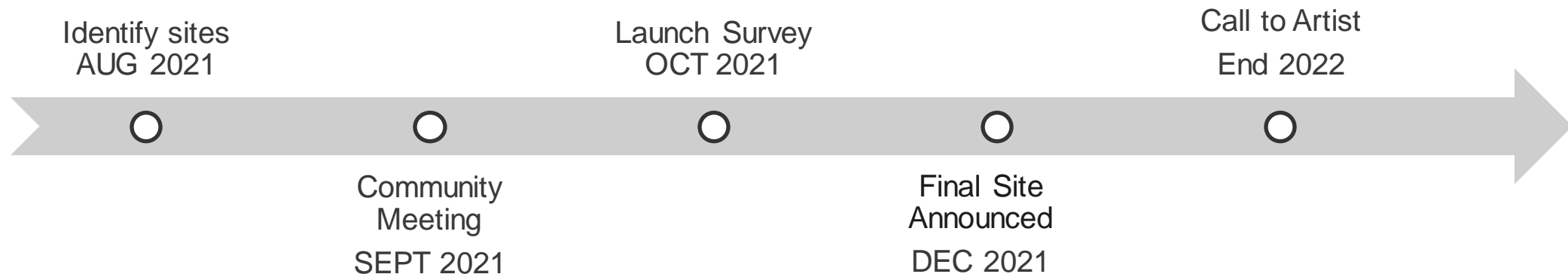
Graphics are drafts and for preview purposes only



AIT: Permanent Artwork

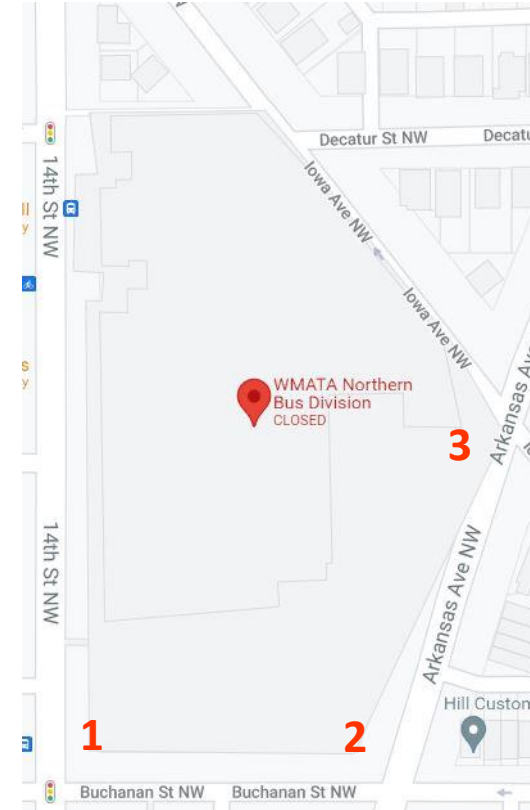
- Actions underway to finalize location for artwork
- Selection Process:
 - Community survey about proposed locations
 - Art Selection Committee (AIT, Project Team, Community Representatives)
 - Call to Artists
 - Review and Selection Process
 - Award
 - Fabrication and Installation

Interim AIT Planned Timeline CY21 (subject to change)



AIT: Permanent Artwork (Cont'd)

- Criteria:
 - Location that experiences high levels of pedestrian traffic and activity
 - Enhance and activate the pedestrian and streetscape experience
 - Relevance of the piece to the building and community, its values, culture, and people
- Three different locations:
 - 14th Street and Buchanan
 - Buchanan and Arkansas
 - Arkansas and Iowa



VIEW 1



VIEW 6



VIEW 4

Any Questions?

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Metro's Zero-Emission Bus Update

Metro Commits to Zero-Emission Bus Fleet

On June 24, 2021, the Metro Board of Directors adopted a resolution requiring Metro to:

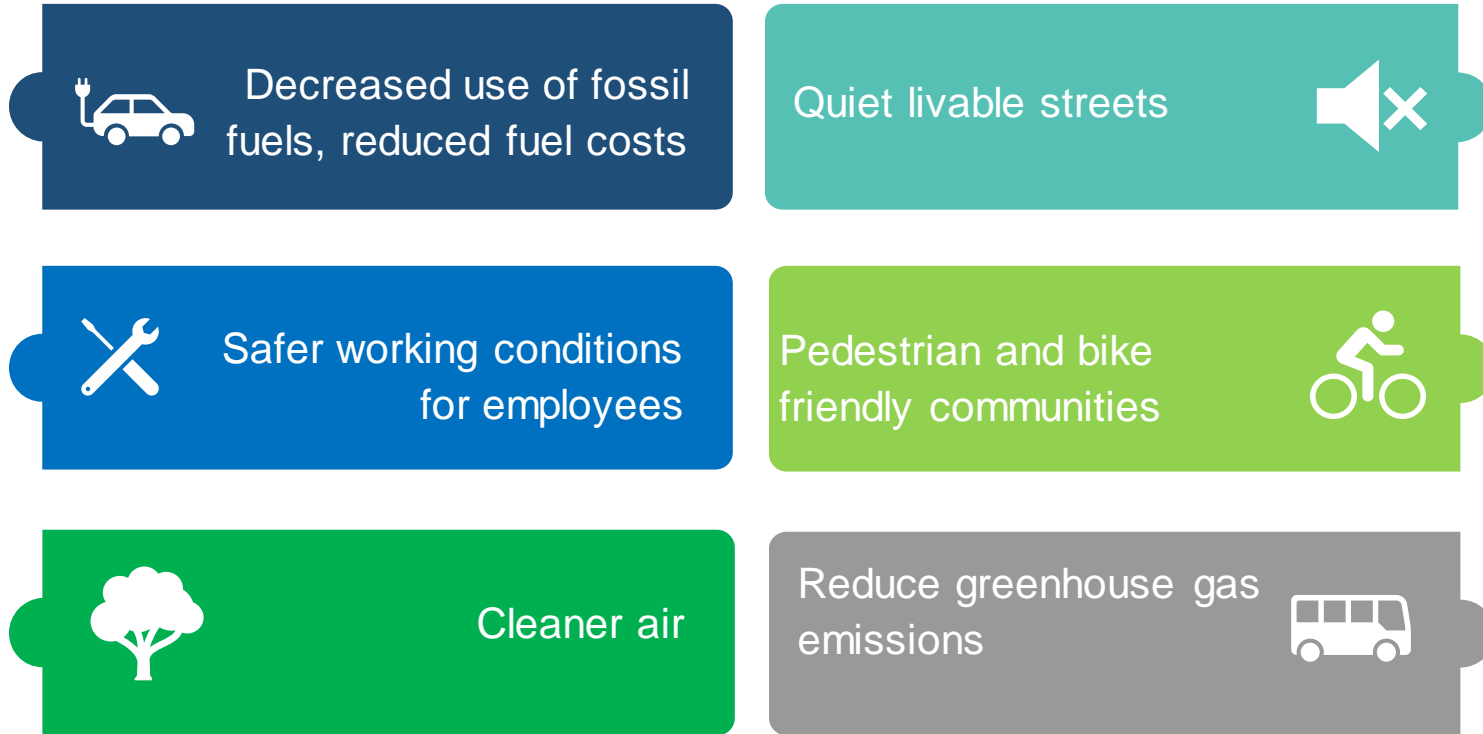
Purchase only lower-emission and electric buses in next bus procurement

Transition to 100% zero-emission bus purchases by 2030

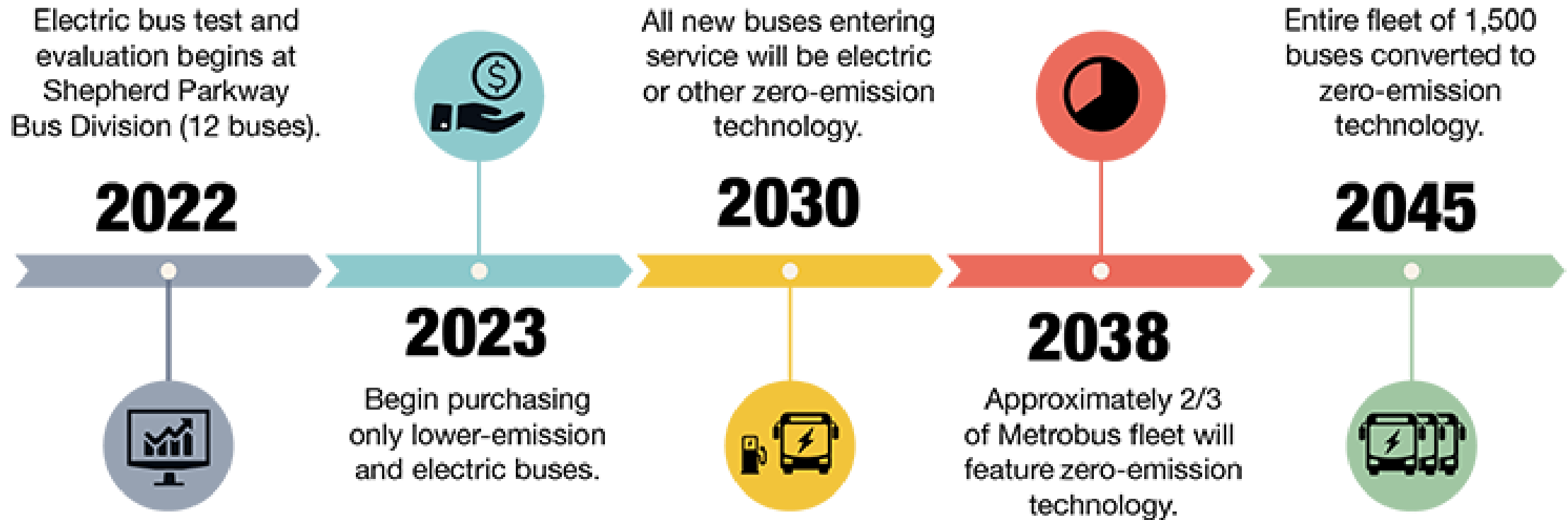
Have 100% zero-emission bus fleet by 2045



Zero-Emission Buses Improve Service and Livability



Transition to 100% Zero-Emission Buses by 2045



Next Steps for Implementing Zero-Emission Bus Goals

- Test & evaluation of 12 electric buses and charging equipment

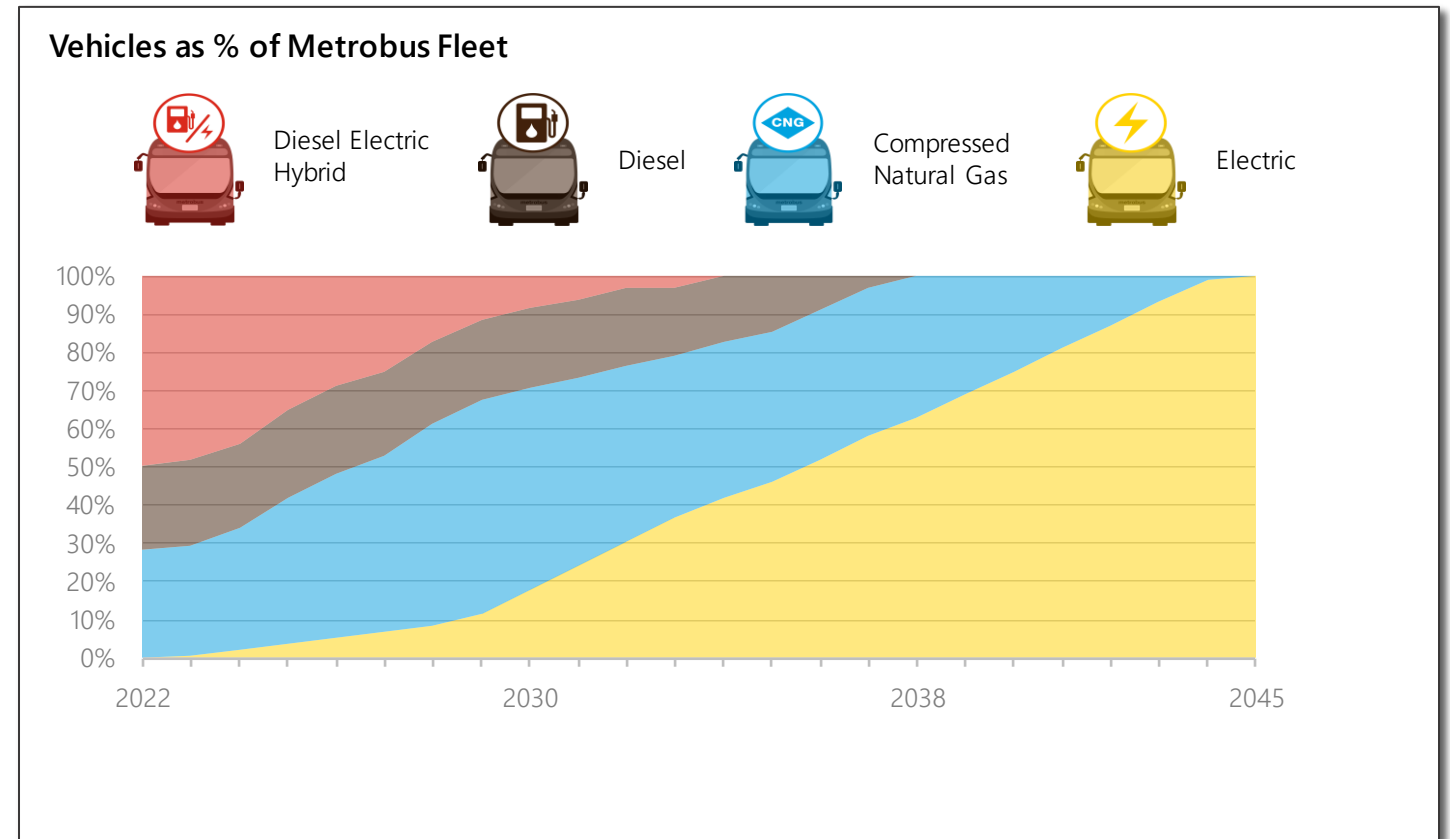
- Develop a comprehensive plan to transition to a zero-emission fleet

- Evaluate bus garages beyond NBG for inclusion of charging infrastructure

- Engage utilities on electric grid needs






Metro's Electric Bus Fleet Share Projected to Increase

- In 2022, 70% of buses diesel or hybrid
- By 2030, all new procurements will be zero-emission
- By 2045, entire fleet will be zero-emission



Source: Draft Fleet Plan

Phased Approach Needed to Test Electric Bus Performance to Provide Reliable Service

| Performance Factor | | Present | Target |
|---|------------------------|---|---|
|  | Miles/hours of service | Limited demonstration data suggests ~15,000-20,000 miles/year | On par with conventional vehicles ~30,000 miles/year |
|  | Availability | Demonstrated availability averages ~75% | On par with conventional vehicles ~Available 85% of days |
|  | Reliability | Limited demonstration data suggests ~2,500-5,000 miles between failures | On par with conventional vehicles, Metro target ~7,000 miles between failures |
|  | Travel range | In ideal operating conditions ~150 miles | On par with conventional vehicles ~250+ miles |
|  | Useful life | Useful life assumption of 12 years | On par with conventional vehicles 15 years |

Electric Bus Test and Evaluation will provide data and experience with electric bus performance in Metro operating conditions. Expectation is electric buses will eventually be capable of 1-for-1 replacement of conventional buses, but technology not yet there.

Electric Bus Plans for Northern Bus Garage

- Following the Board's adoption of Metro's Zero-Emission strategy, Northern Bus Garage will be designed and constructed (when approved) to be 100% Battery-Electric Bus ready when it opens
- Northern will be the first Metro garage designed to accommodate a fully electric fleet
- The garage will be able to store and operate up to 150 electric buses in the future
- Number of electric buses active on opening day will be informed by results of Test & Evaluation Program and other Metro fleet planning

Northern Electric Bus Status Update

- Completed scope definition for design development
 - Includes all electrical infrastructure and other components, except those that are tied to the final selected vendors based on the Test & Evaluation program (charging equipment, charge management system, type of pantograph)
- Electric bus-ready design package is expected to be completed in early 2022
 - Supplemented with vendor-specific information in 2023 – 2024
- Construction efforts will include the build-out of all elements included in this design package prior to the facility opening



Source: [Edmonton Transit Service Unveils Fleet Of Record-Breaking Proterra Catalyst® E2 Max Electric Buses And Innovative Electric Bus Garages | Proterra](#)

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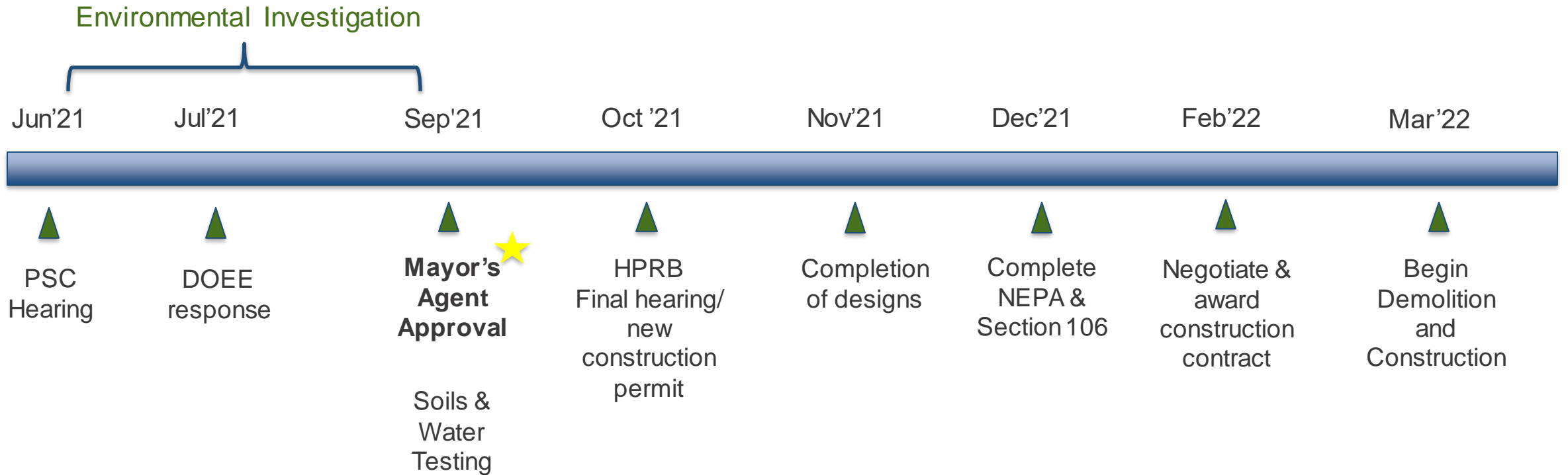
Type questions directly into the chat

Additional Information About Metro's Zero-Emission Bus Efforts:
<https://www.wmata.com/initiatives/sustainability/Zero-Emission-Bus-Update.cfm>

What to Expect in Remainder of 2021 and in Early 2022

Northern Bus Garage Reconstruction Project

Schedule



Upcoming Community Engagement Meetings



Winter

*December 2021



Spring

*March 2022

- Updates posted to wmata.com/NorthernBusGarage and shared via email
- Email MCAP_NBG_Reconstruction_Project@wmata.com to join the project's community contact list or request additional information

****Dates may be subject to change***

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Thank You!

Northern Bus Garage Reconstruction Project