

Northern Bus Garage Replacement Project

Spring Community Meeting

May 9, 2023

This meeting is being recorded



Safety Review

- **Emergency Exits:** In case of an emergency, please **exit** the meeting room out of the **south-facing doors** (located behind the project team)
- **Bathrooms:** Located outside of the meeting room to the **left** past the stairs

Meeting Etiquette: In-Person

Help keep this meeting productive and respectful:

Please adhere to the Q&A protocol:



Raise your hand to ask a question



Speak clearly into the microphone



Allow presenters, and those speaking, to finish

When speaking:




Maintain a civil tone

Be mindful of time

Meeting Etiquette: Virtual

Help keep this meeting productive and respectful:

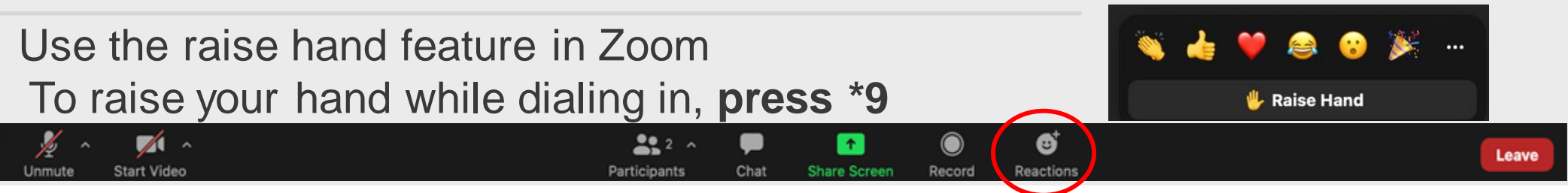
Please adhere to the Q&A protocol:



Request to speak by typing your name in the chat


Type questions directly into the chat

Use the raise hand feature in Zoom
To raise your hand while dialing in, **press *9**



Unmute Start Video Participants Chat Share Screen Record Reactions Leave

When speaking:



Maintain a civil tone

Be mindful of time

Agenda



Introductions



Project Overview & Construction Updates



Environmental Management Update



Metro's Zero Emission Bus Update



What to Expect in 2023



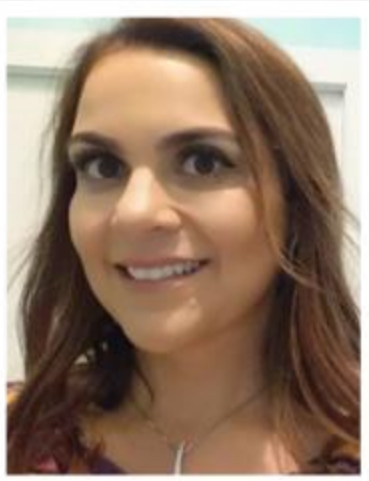
Art in Transit Update



Introductions

Northern Bus Garage Reconstruction Project

Project Team



Maya Nino

Senior Capital
Program Manager,
Capital Delivery



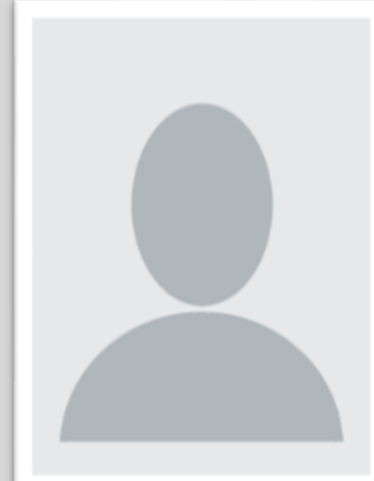
**Thomas
Robinson**

PMCM Project
Manager



Phil Sheridan

Clark Construction



Jim Ashe

Director, Civil and
Structural
Engineering



Anne Delaney

Program Coordinator,
Art in Transit WMATA



Amy Mesrobian

Director, Zero-
Emission
Vehicles WMATA

Project Overview and Construction Updates

Northern Bus Garage Reconstruction Project

Project Events Since the Last Meeting:

Department of Buildings (formerly DCRA)

- Building permit review ongoing

DC Water

- Large plan review approved

Construction Contract

- Work ongoing for phase two construction
- Temporary construction trailer move in completed

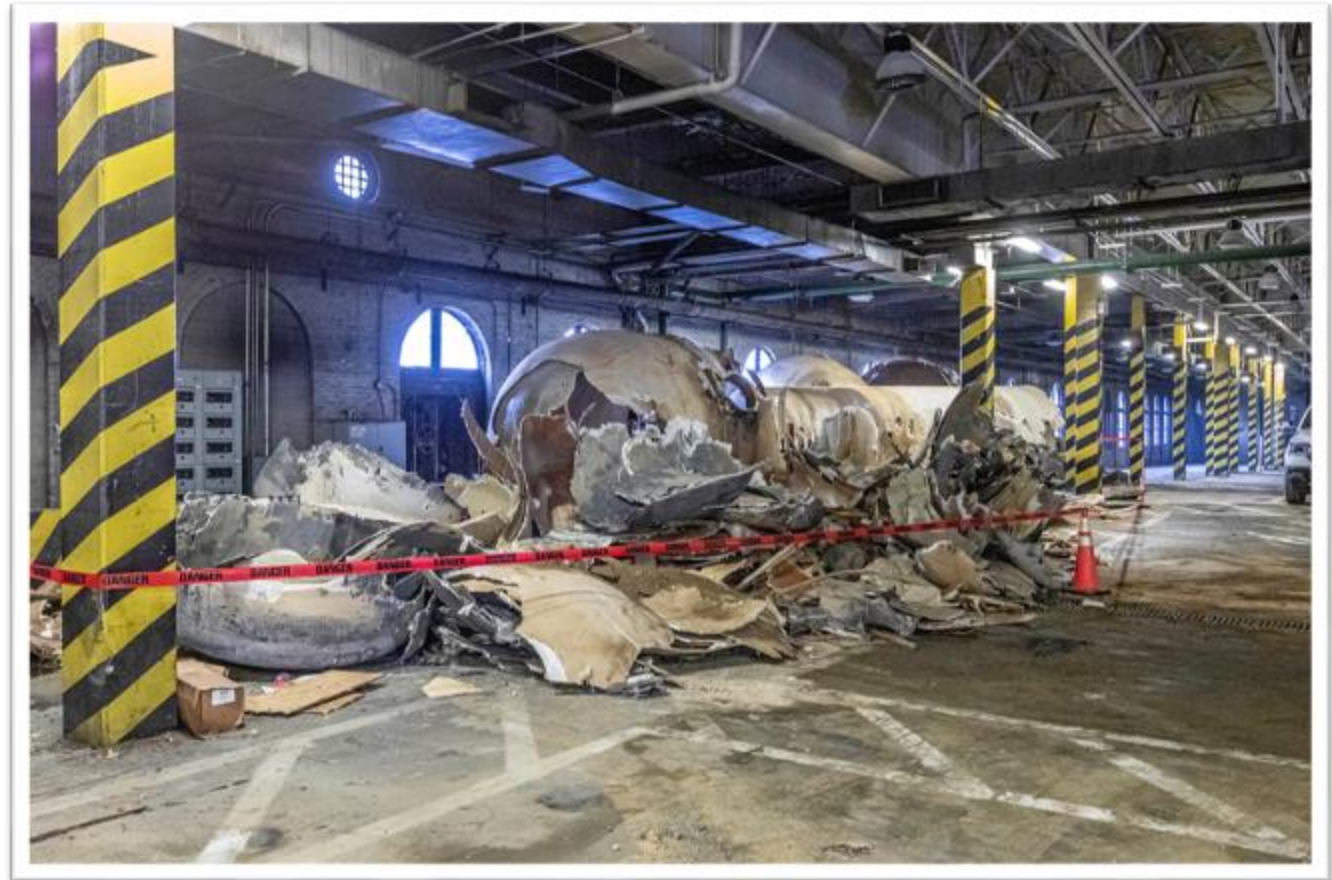


Progress Since Last Meeting

Construction

Q1 – Environmental Remediation

- Completed removal of underground and above ground storage tanks
- Removal of old bus maintenance and service equipment completed
- Completed regulated waste capture and removal
- Started asbestos abatement



Progress Since Last Meeting

Construction

Q1 – Completed mobilization to the site

- Set up construction fencing, site security and Maintenance of Traffic around perimeter of site
- Set up construction field trailers along Arkansas Avenue
- Completed installation of noise & vibration instrumentation equipment, reporting data monthly



Progress Since Last Meeting

Construction

Q1 – Façade Bracing and Tower Re-support

- Completed deep foundations for and the installation of all façade bracing
- Completed new mini-pile foundations, concrete structures and tower jacking for tower re-support



Progress Since Last Meeting

Construction

Q1 - Started Mass Demolition of Building

- Completed demolition of Decatur St. cover structure
- Completed utility disconnects
- Completed demolition of the former parking structure over bus storage
- Started hand separation at historic façade
- Over 98% of demolition waste is being repurposed



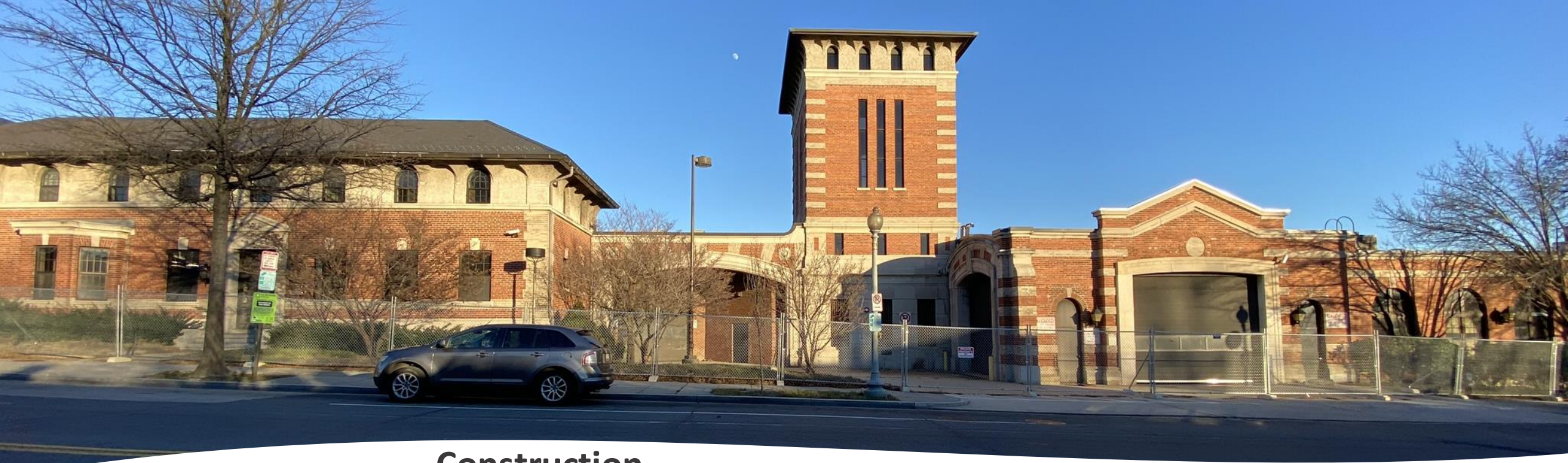
Progress Since Last Meeting

Construction

Q1 - Support of Excavation (SOE) and Soils Excavation

- Started Support of Excavation (SOE) pile installation east of the historic administration building
- Completed rock removal plan reviews
- Minor excavation began to support demolition





Outlook for Q2 2023

Construction

- Complete demolition
- Continue preconstruction surveys
- Complete installation of in ground instrumentation equipment and collection of baseline data
- Complete installation of façade bracing support steel
- Continue support of excavation
- Begin major excavation
- Start deep foundation test program

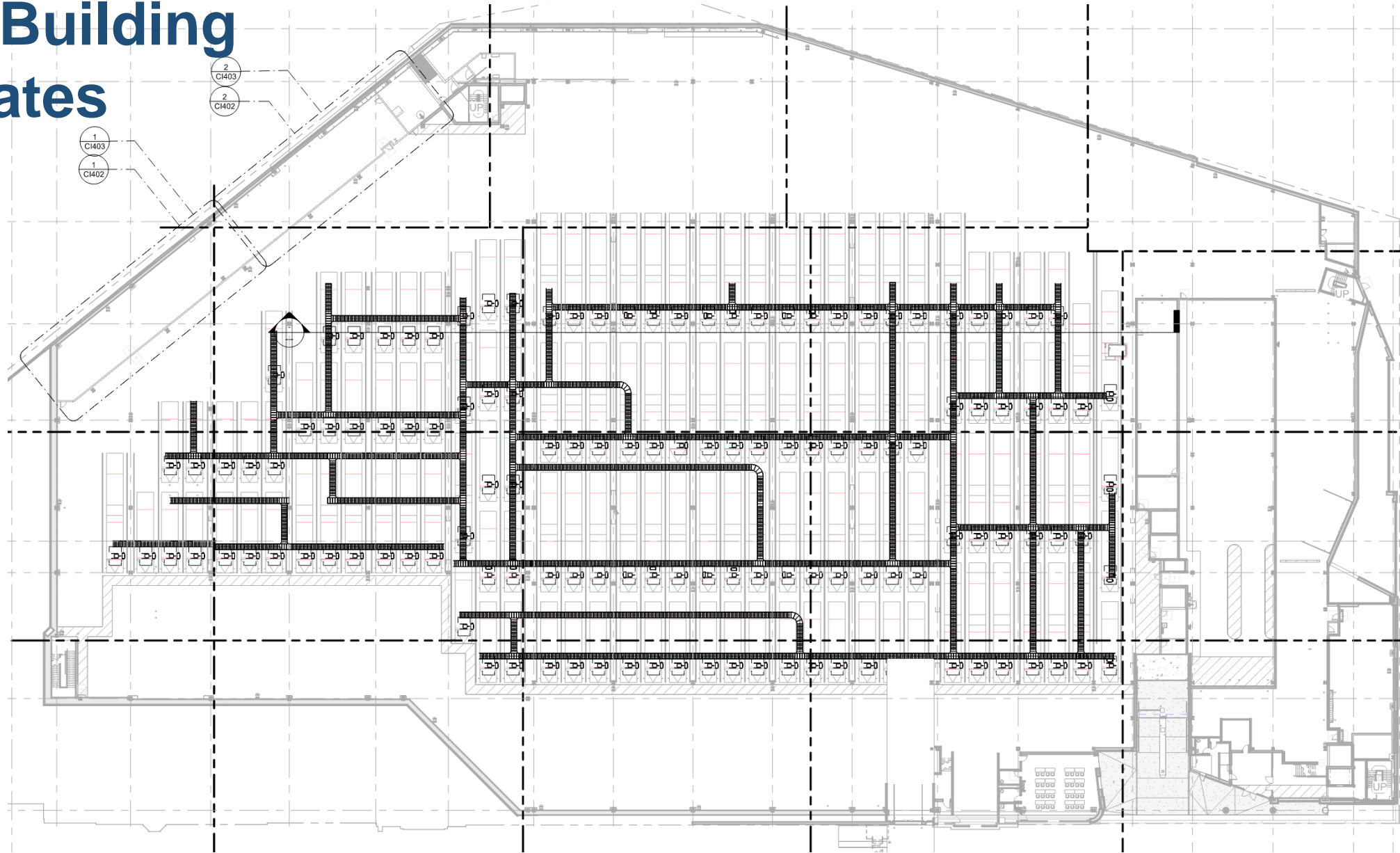
Agency Collaboration & Permitting Status

Agency	Status
The District Department of Building (DOB) formerly (DCRA)	<ul style="list-style-type: none"> • Building permit submitted – under review
Washington Gas	<ul style="list-style-type: none"> • Coordination of new low-pressure service ongoing
The District Department of Transportation (DDOT)	<ul style="list-style-type: none"> • Periodic MOT Inspections ongoing
DC Water	<ul style="list-style-type: none"> • New water/sewer plans approved • Temporary water/sewer plans approved
PEPCO	<ul style="list-style-type: none"> • Temporary service installed on Arkansas Avenue • Ongoing coordination to finalize new building service application (non- BEB) • Kickoff meeting held for BEB Service Coordination
The District Department of Energy & Environment (DOEE)	<ul style="list-style-type: none"> • Stormwater management plans • Finalizing response to DOEE feedback on the SSA and Remediation Recommendation Report

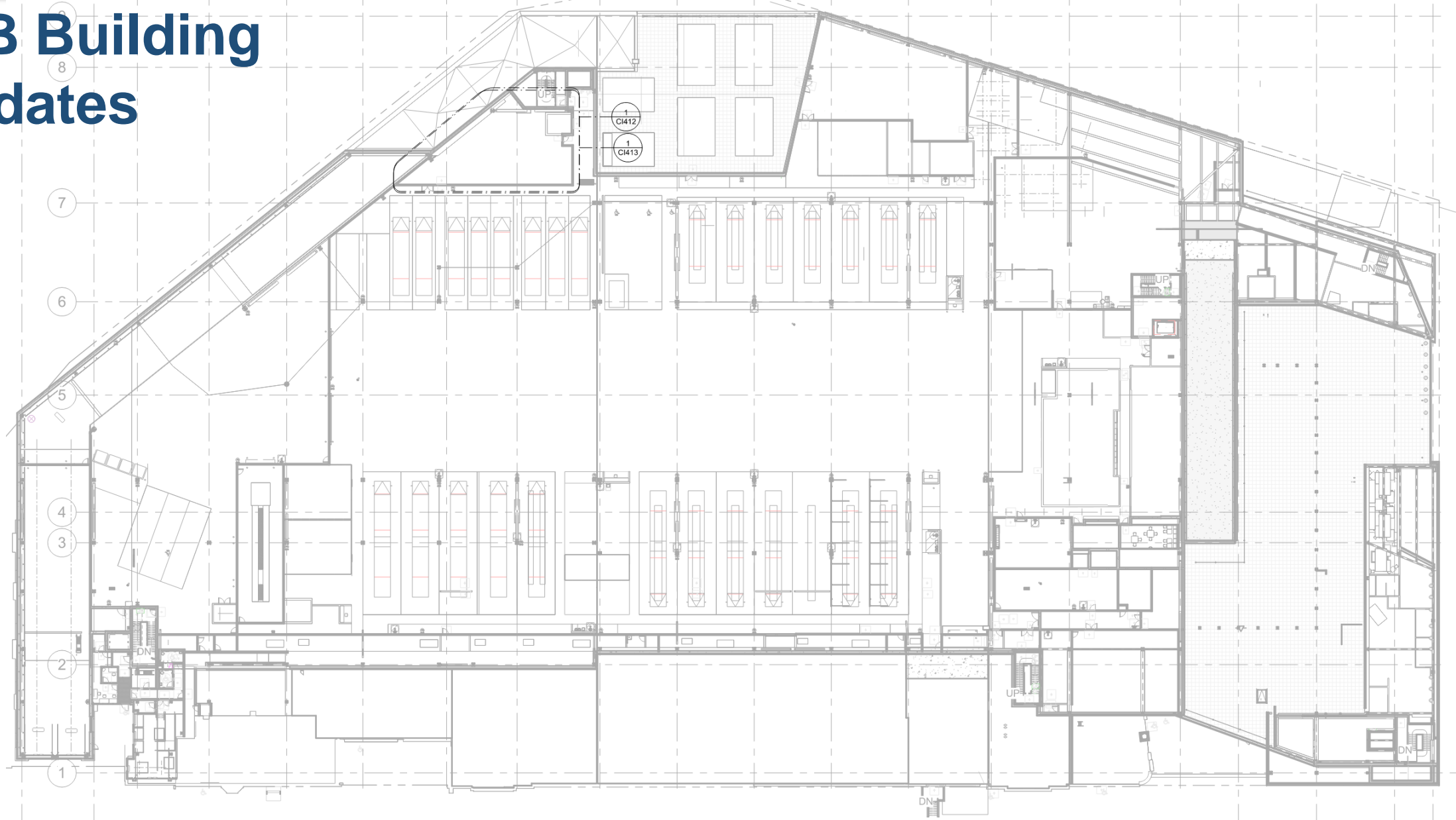
Battery-Electric Bus Building Updates

Northern Bus Garage Reconstruction Project

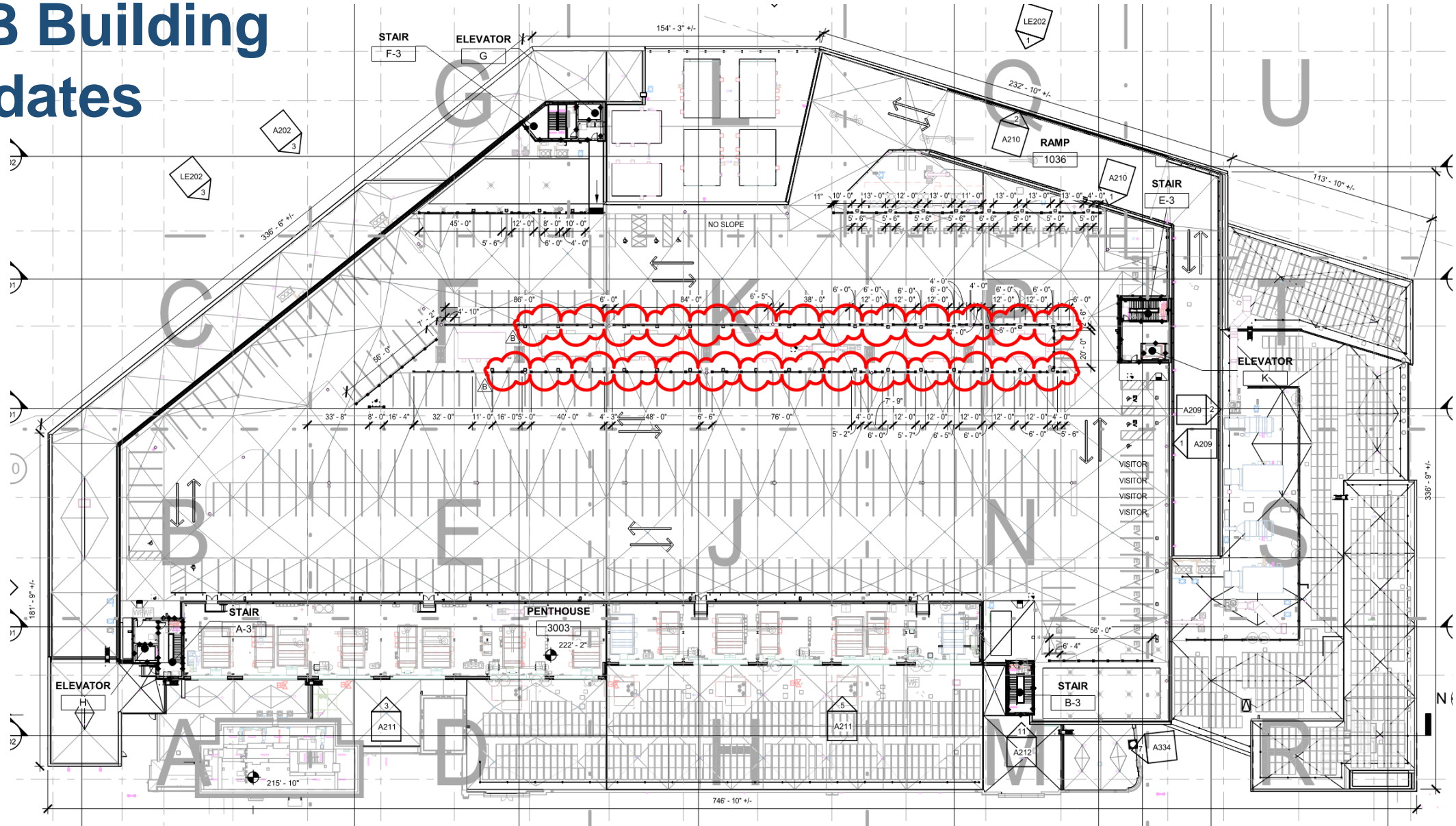
BEB Building Updates



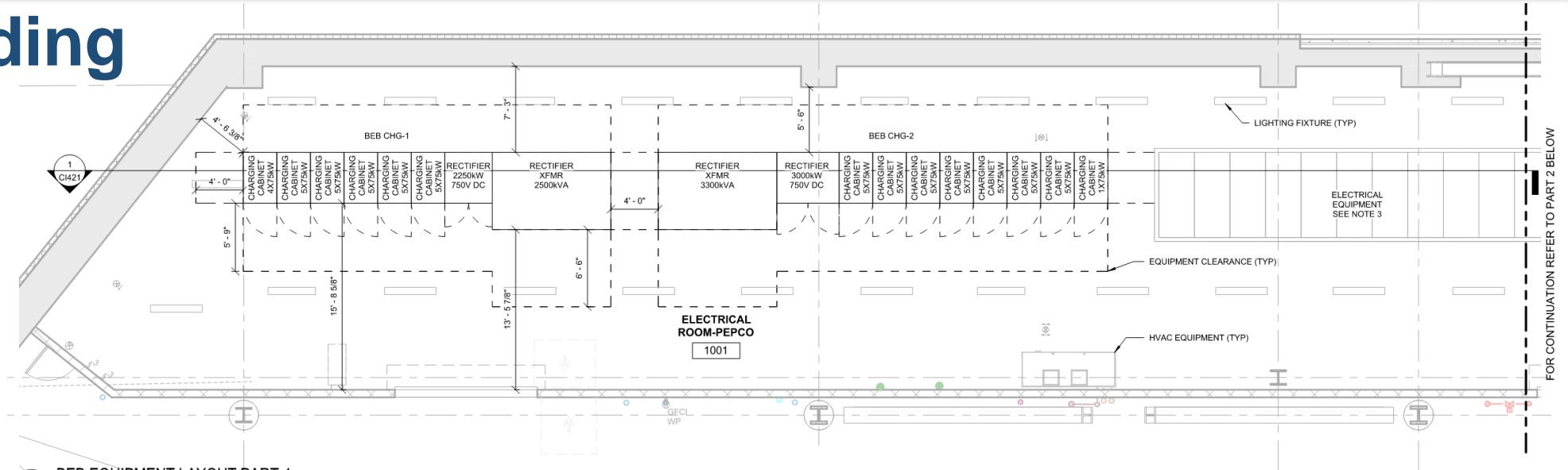
BEB Building Updates



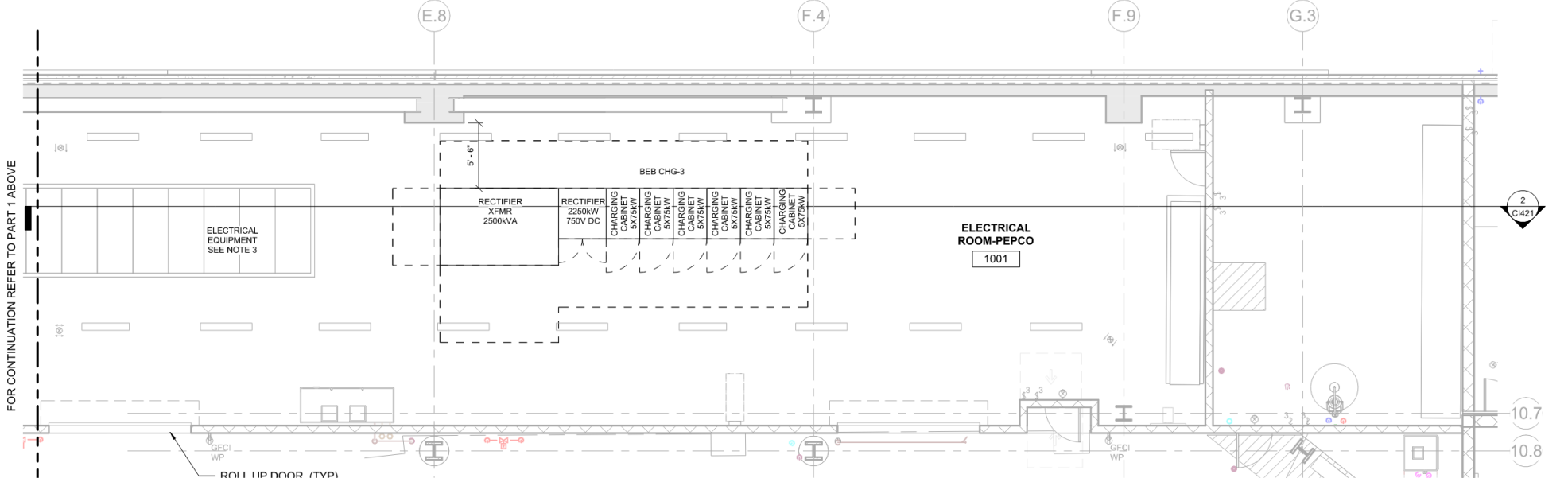
BEB Building Updates



BEB Building Updates



BEB EQUIPMENT LAYOUT PART-1
3/16" = 1'-0"

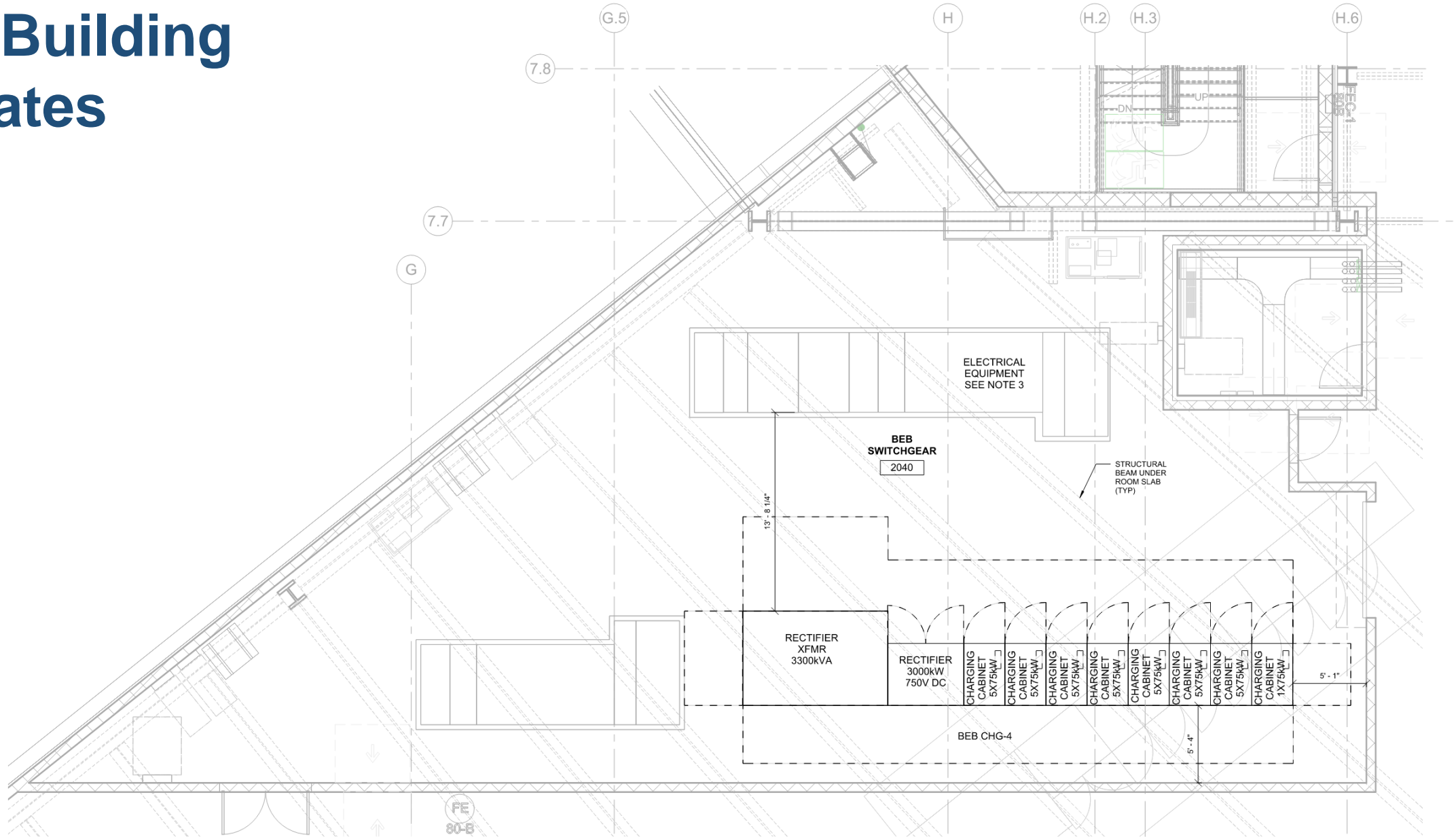


FOR CONTINUATION REFER TO PART 1 ABOVE

FOR CONTINUATION REFER TO PART 2 BELOW



BEB Building Updates

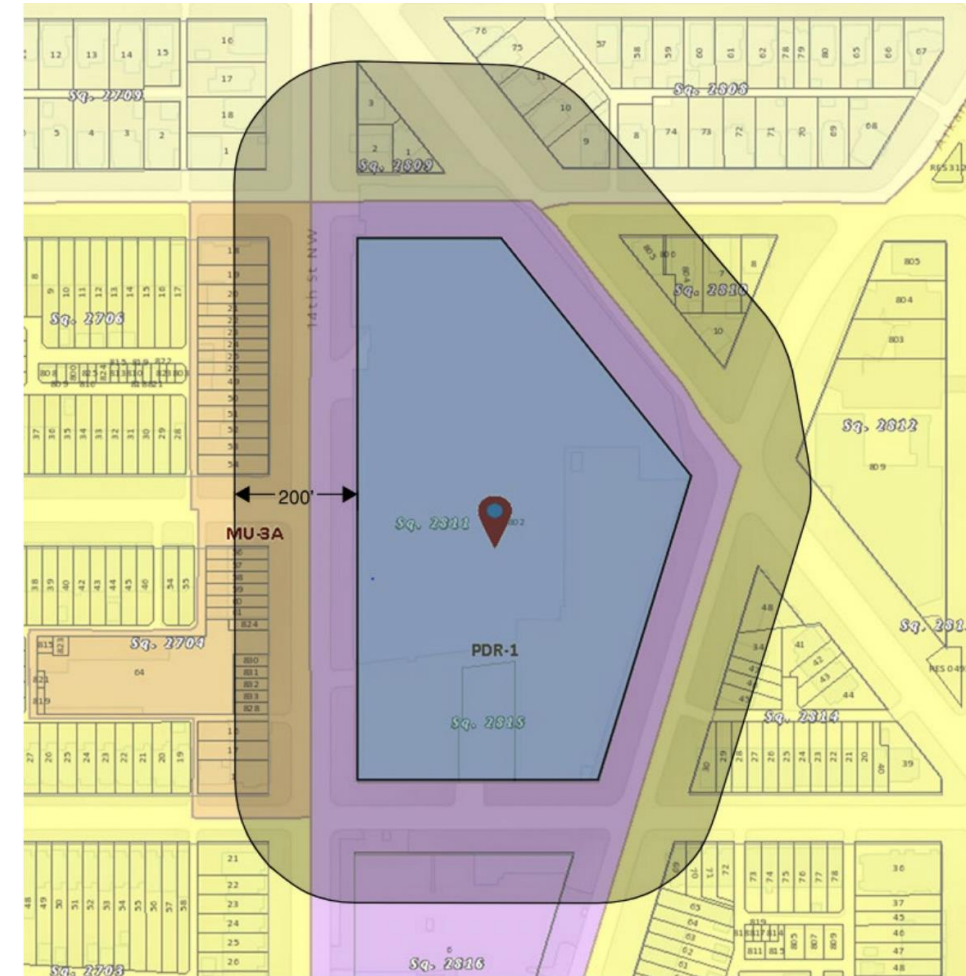


Preconstruction Survey Update

- **Still opportunities to sign up for surveys**
- Multiple dates and times to schedule your survey with the engineer are available call TER at **443-221-4493** or email **nbgsurvey@ter-int.com**
- The property owner will receive a copy of the completed pre-construction survey
- The Program only covers properties within 200 feet of the Northern Bus Garage Reconstruction Project site
- Survey Program informed by the Department of Buildings (formerly DCRA) and Federal Transit Administration guidelines

Preconstruction Survey Update

- Map shows an overlay with the properties that fall within 200 ft of the proposed new bus garage
- For more detailed information on the preconstruction survey, please visit https://wmata.com/initiatives/plans/northern-bus-garage/upload/Northern_June15_FINAL_Slides.pdf (slides 29 – 33)



Any Questions?



In-person

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Virtual

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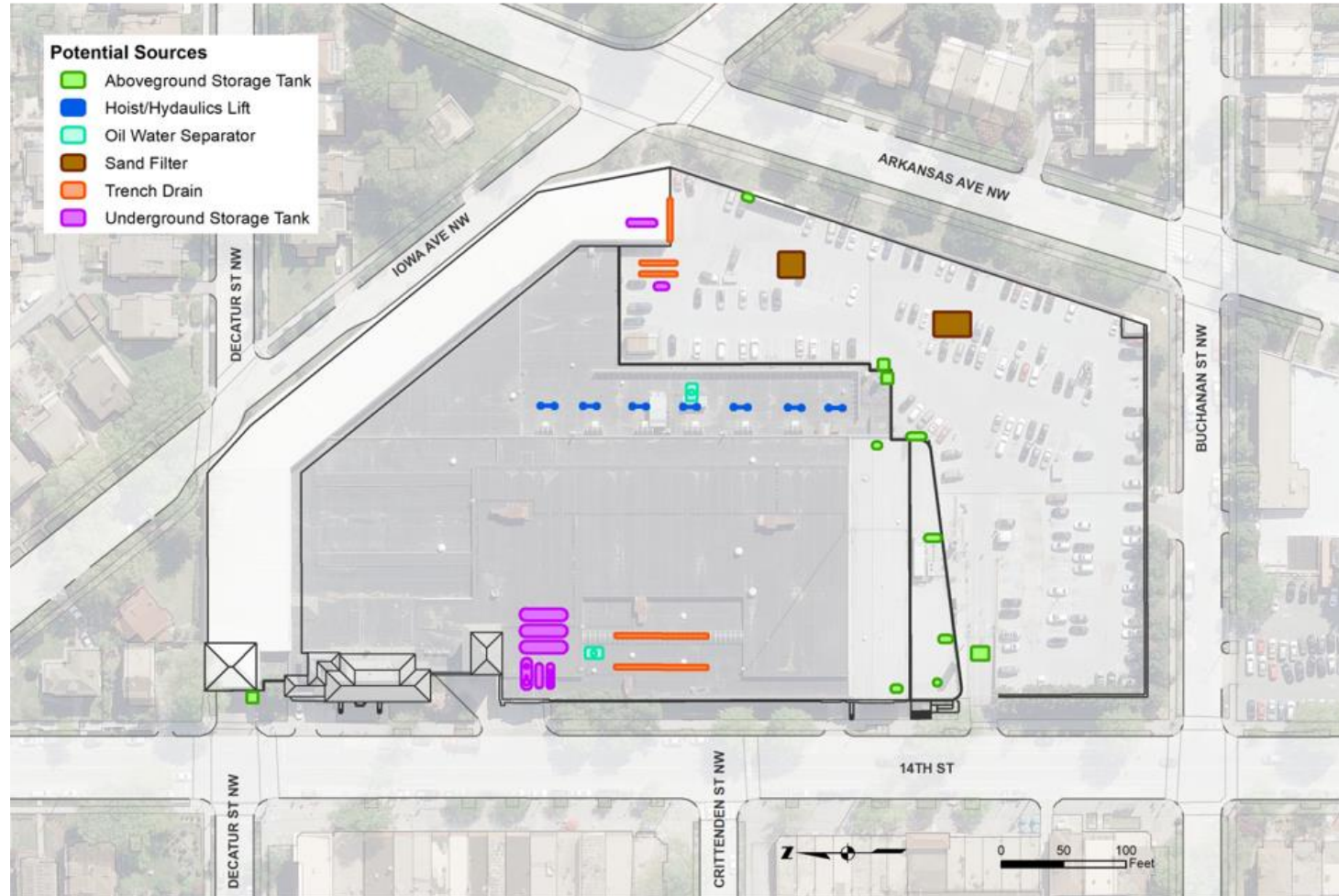
Environmental Plan and Remediations

Northern Bus Garage Reconstruction Project

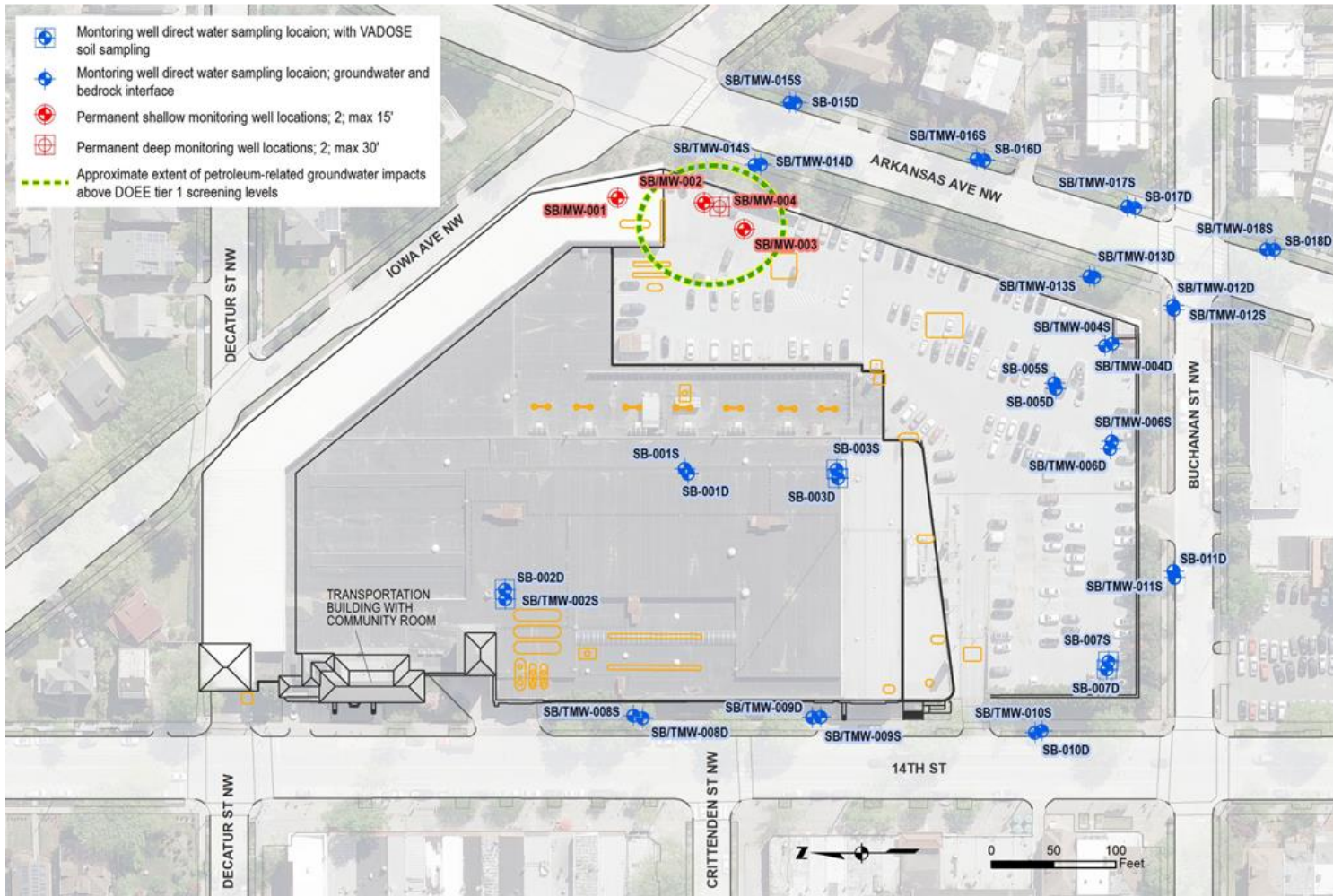
Nature of Environmental Contamination

1. Underground Storage Tanks (USTs)
2. Chlorinated Solvents
3. Other materials

Potential Sources



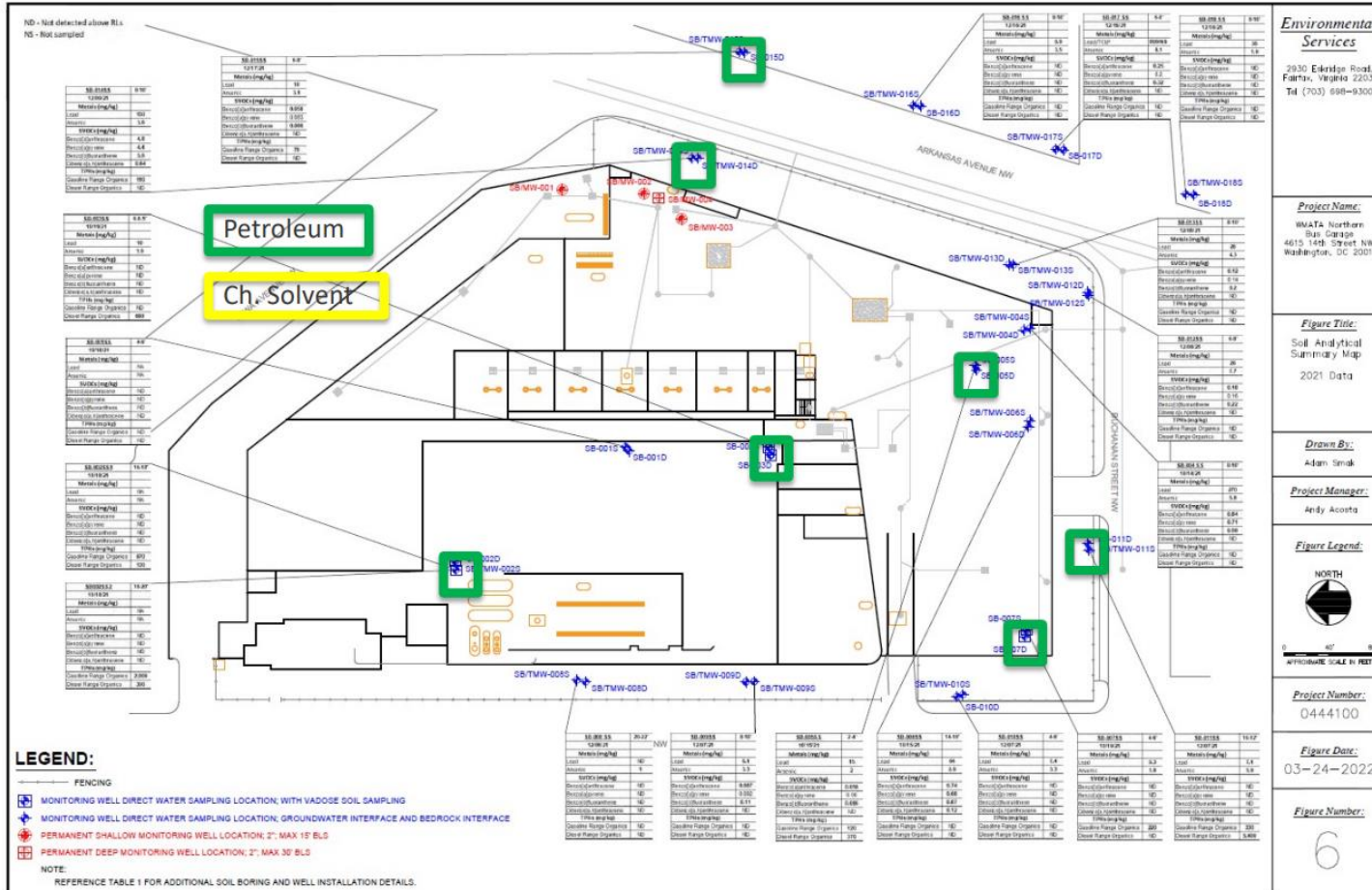
Soil Sample Locations



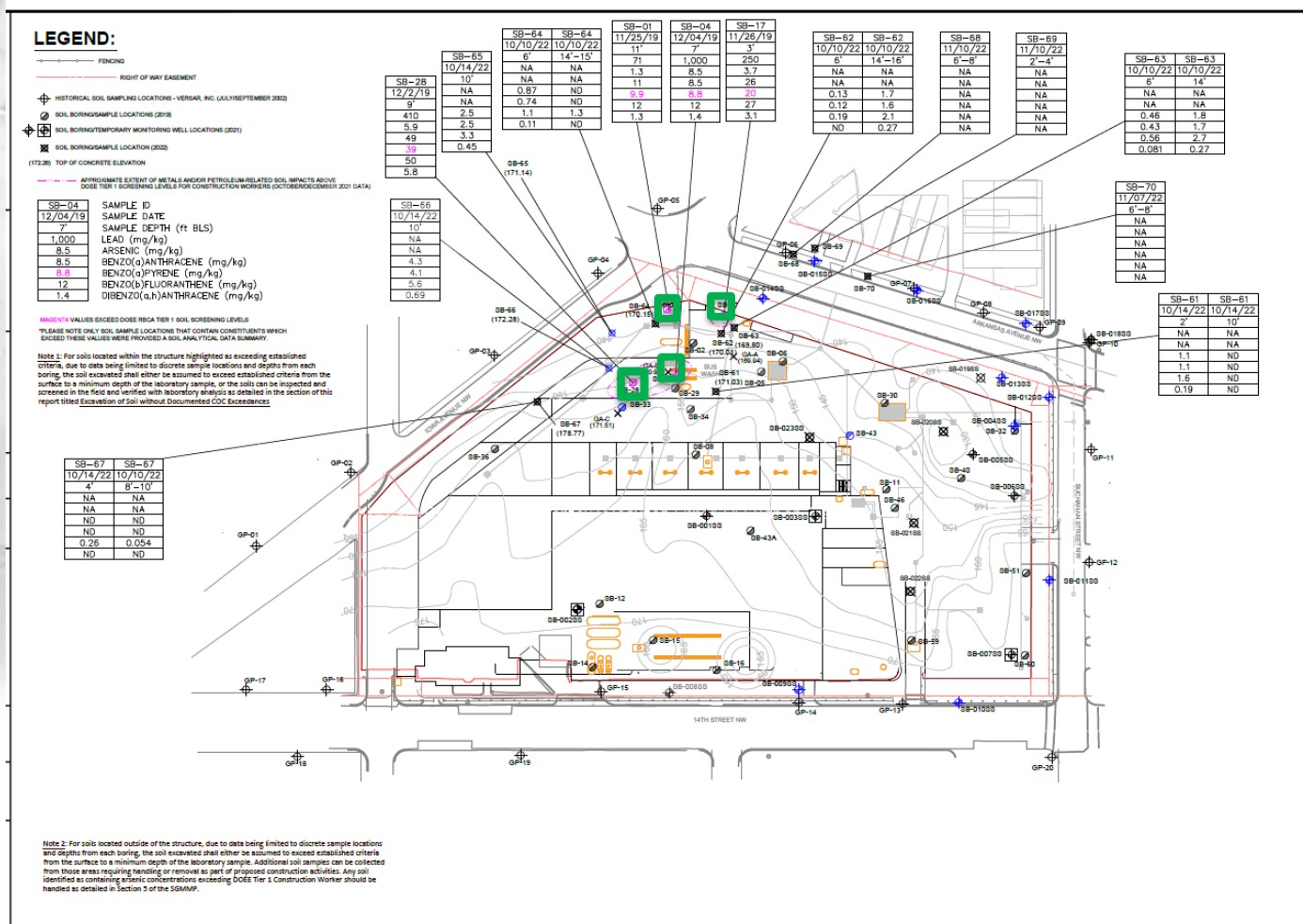
Results

- Petroleum soil contamination and petroleum groundwater contamination (Figures 6 and 7 of the Supplemental Site Assessment (SSA) report), including some detections above Tier I levels
 - Past investigations show petroleum contamination in soil and groundwater south of Buchanan (See Figures 1 and 2 of the Work Plan), although it is not clear these detections originated from the Northern Bus Garage site
 - One detection of petroleum in soil across Arkansas Avenue in the current sampling
- Chlorinated solvent groundwater contamination (See Figure 7 of the report)
 - Past investigations have identified chlorinated solvent contamination in soil and groundwater south of Buchanan Street (See Figures 1 and 2 of the Work Plan), although it is not clear these detections originated from the Northern Bus Garage site
 - Chlorinated solvent contamination was not detected across Arkansas Avenue in the current sampling
- An elevated lead detection was identified in a soil sample collected east of Arkansas Avenue (from a sample in public space). The project team has not identified any linkage to the Northern Bus Garage site
- Light non-aqueous phase liquid (LNAPL) was observed in the vicinity of previously-observed petroleum contamination (within the garage footprint).
- No dense non-aqueous phase liquid (DNAPL) was observed

Soil Results (Spring 2022)



Soil Results (Fall 2022)

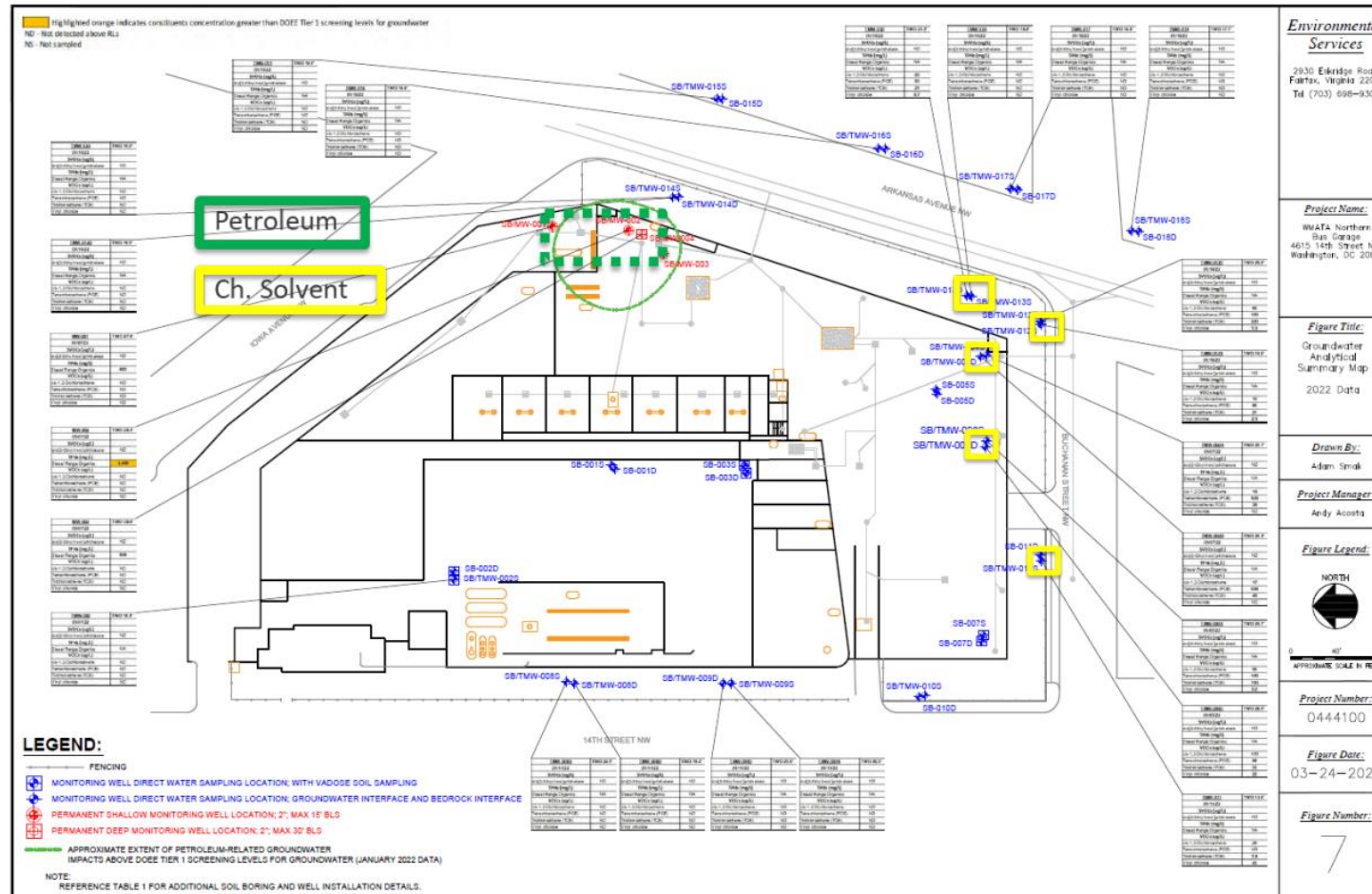


Petroleum

Chlorinated Solvents



Groundwater Results (Spring 2022)

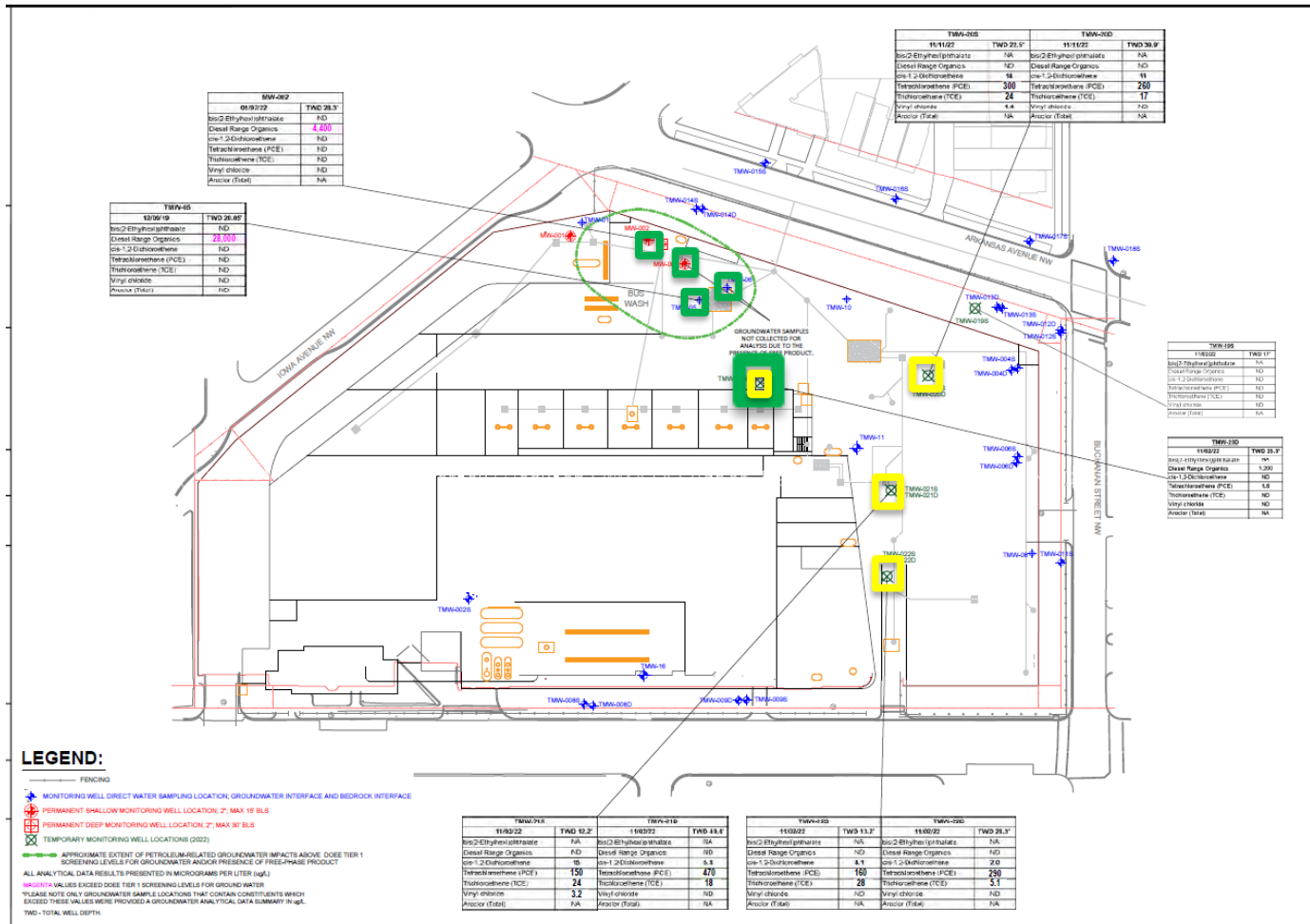


WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

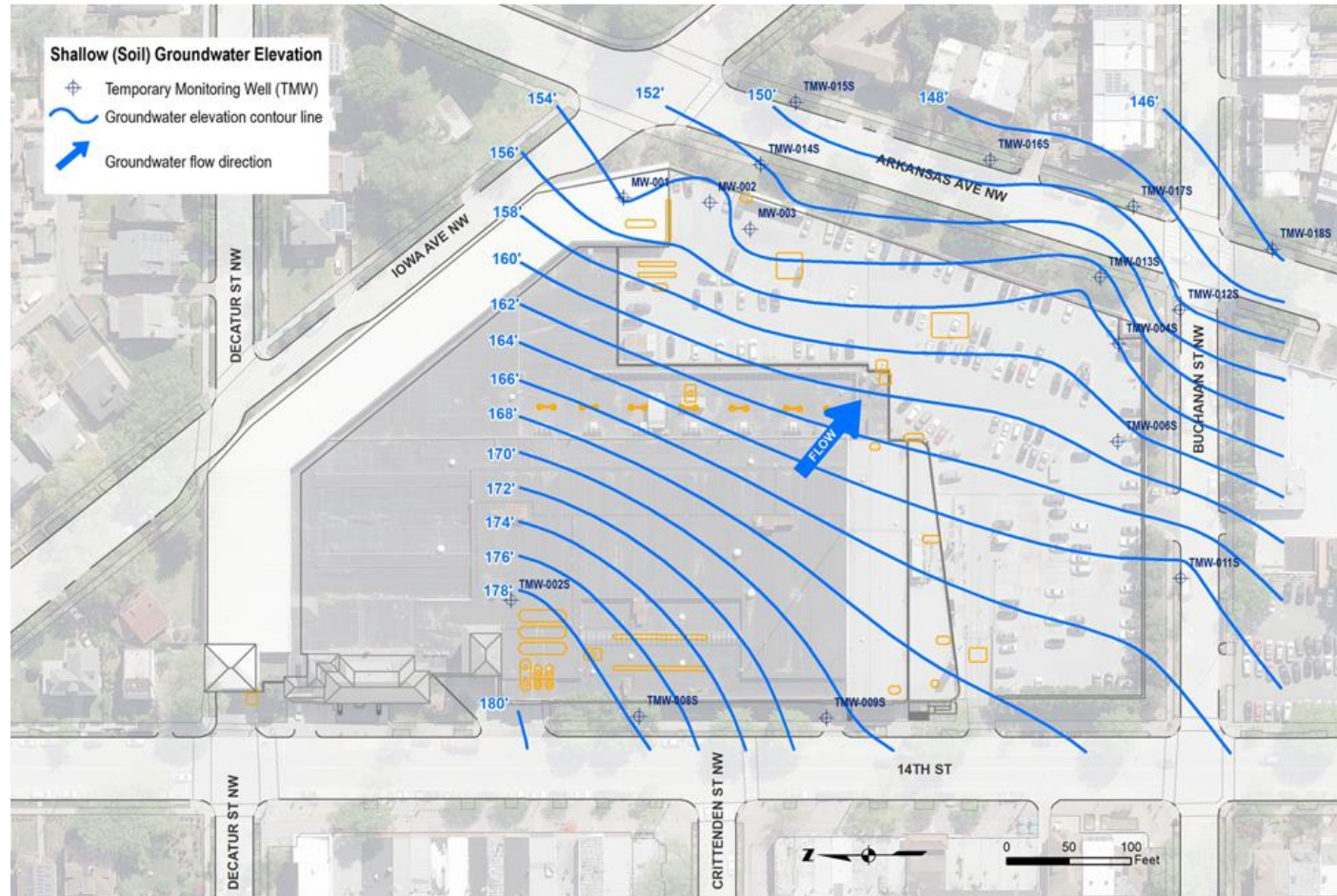
WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY



Groundwater Results (Fall 2022)



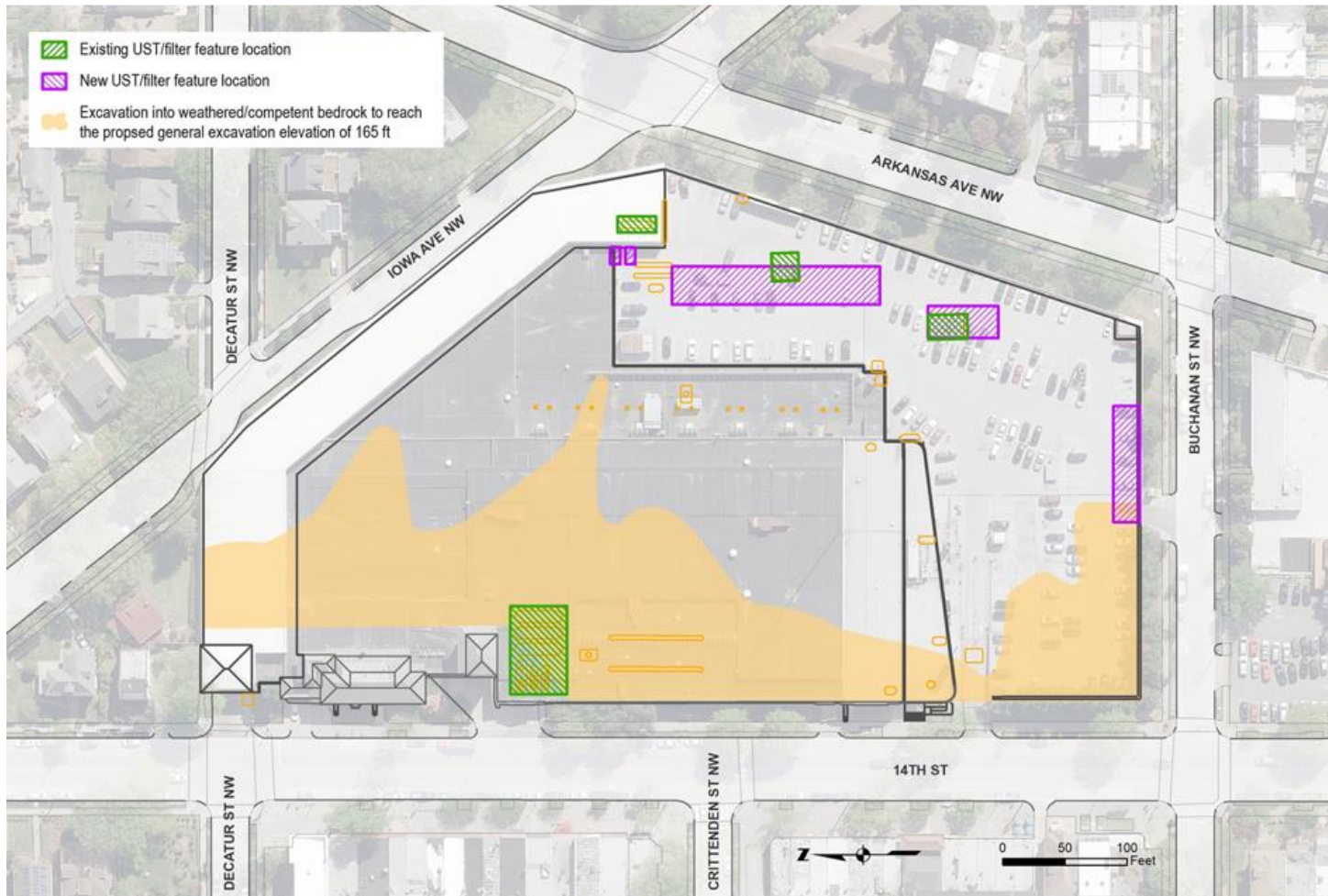
Groundwater Flow



Bedrock Contour



Planned Underground Structures



Remediation Plan Elements

Plan Elements:

- Task 1: Removal of underground structures and storage vessels
- Task 2: Petroleum impacted soil excavation and disposal
 - 2a. Documented Petroleum-Impacted Soil Area
 - 2b. Other Areas of Impact (if encountered)
- Task 3: Free phase petroleum product removal and disposal
- Task 4: Dense non-aqueous phase liquids removal and disposal (if encountered)
- Task 5: Vapor management system [Vapor barrier and a PVC air collection system]
- Task 6: Sentinel well installation and monitoring

Ongoing Activities

- UST Group requested additional information and sampling.
- WMATA delivered sampling results in April to DOEE.
- Land Remediation Group requested additional information (work in progress).
- WMATA met with the Land Remediation Group on April 20th
- Land Remediation Group has requested deeper wells (to assess potential for chlorinated solvents within the aquifer).
- Discussions continue.

Any Questions?



In-person

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Virtual

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Metro's Zero-Emission Bus Update

Northern Bus Garage Reconstruction Project

Zero-Emission Update

- Northern Bus Garage will be a 100% zero-emission bus facility on opening
- The garage is being designed and built to accommodate a fleet of up to 150 battery-electric buses
 - Only battery-electric buses on opening
 - No diesel, diesel-electric hybrid, nor CNG buses at any time
 - Improvements increase capacity for articulated buses at Northern to provide more capacity for customers on Georgia Ave, 14th St, 16th St
- Metro is accelerating work to transition its entire bus fleet to zero-emission by 2042
- Metro recently released its Zero-Emission Bus Transition Plan, available on [wmata.com](https://www.wmata.com)



Any Questions?



In-person

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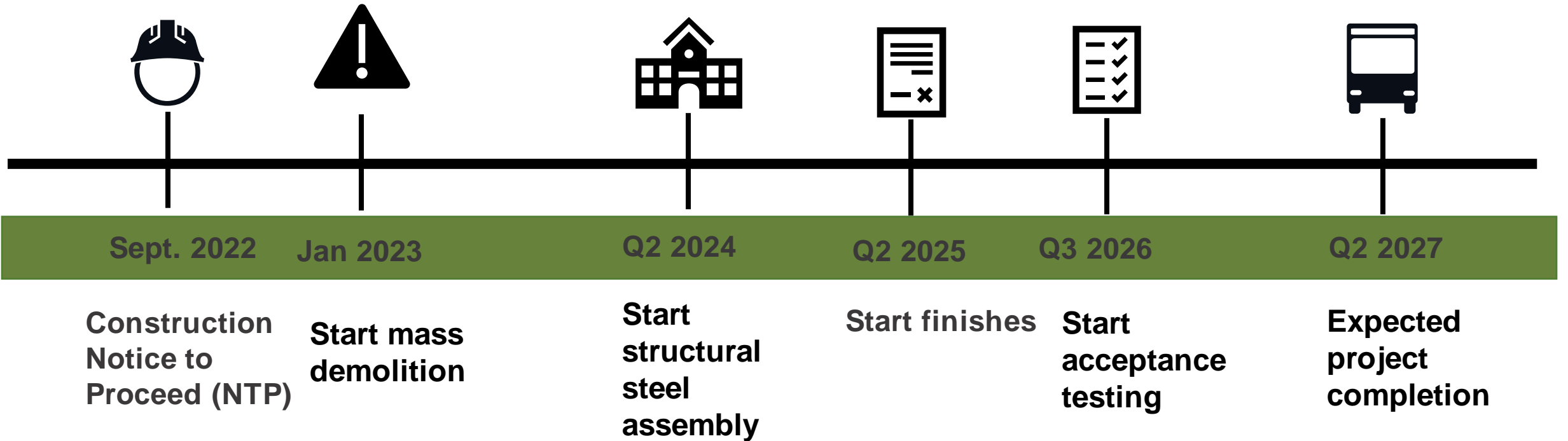
Virtual

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What to Expect for 2023

Northern Bus Garage Reconstruction Project

Schedule



How to Follow-Up on the Project



**Sign Up For
Project Updates**

[MCAP_NBG_Reconstruction
_Project@
wmata.com](mailto:MCAP_NBG_Reconstruction_Project@wmata.com)



**Project
Website**

[wmata.com/
NorthernBusGarage](http://wmata.com/NorthernBusGarage)



**Quarterly Community
Meetings**

Next meeting:
Summer 2023

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Virtual

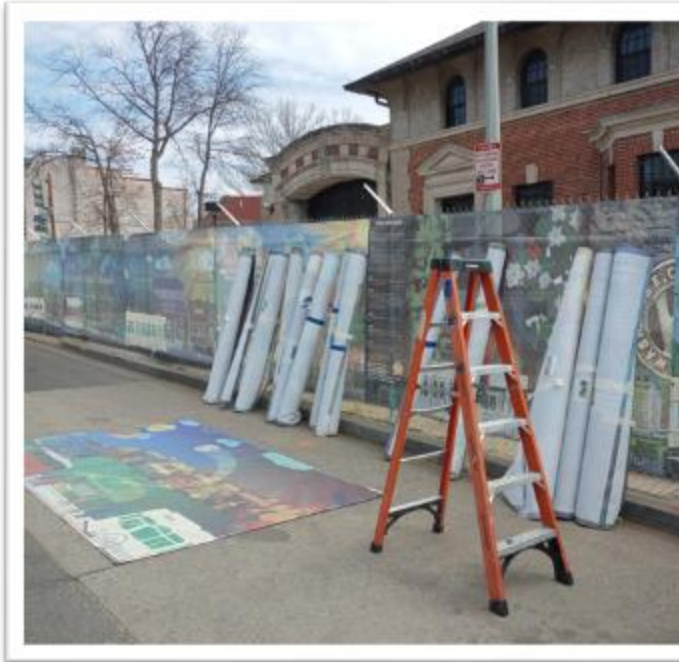
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Art in Transit Update

Northern Bus Garage Reconstruction Project

Art in Transit – Temporary Banners

- Over 100 temporary art banners were installed along the periphery of the site in March 2023
- The Art in Transit team, as well as the Project team will monitor the banners and ensure they are maintained in good condition



Art in Transit – Temporary Banners (Cont'd)

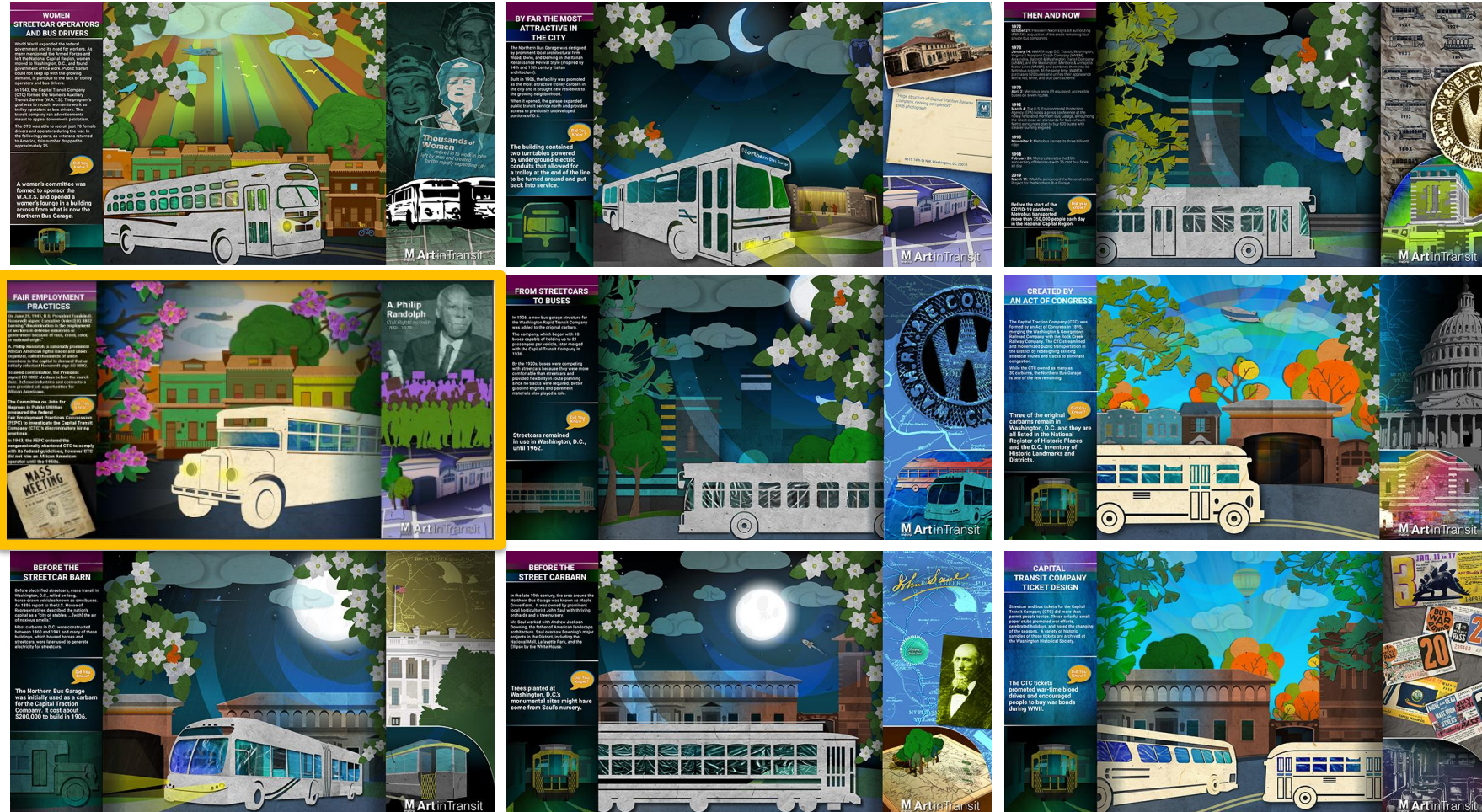
- Total of 25 different panel designs were developed in partnership with the community and captures key dates and information about the garage's 100+ years of history
- The 25 designs are repeated around periphery of the site. Includes 17 whimsical representations of the neighborhood, local landmarks, and public transportation over the years, and nine panel designs including historical facts and information



Art in Transit – Temporary Banners (Cont'd)

• The historic panels include the following information and themes:

- Before the Car barn
- Before Streetcars
- Garage Building Design
- Creation of the Capital Transit Company (CTC)
- CTC Ticket Design
- From Streetcars to Buses
- Then and Now (timeline since 1972)
- Women Operators and Drivers
- Fair Employment Practices



Any Questions?



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Thank You!

Northern Bus Garage Reconstruction Project