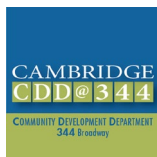


June 13, 2024

City of Cambridge
Community Development Department

PUBLIC MEETING

Planning for Electric Vehicle Charging in Cambridge



CambridgeMA.gov/ElectricVehicles



Public Comment on Zoom Webinar



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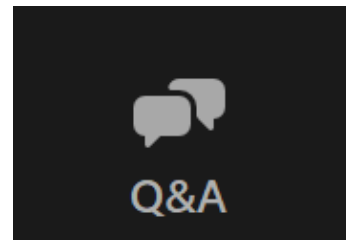


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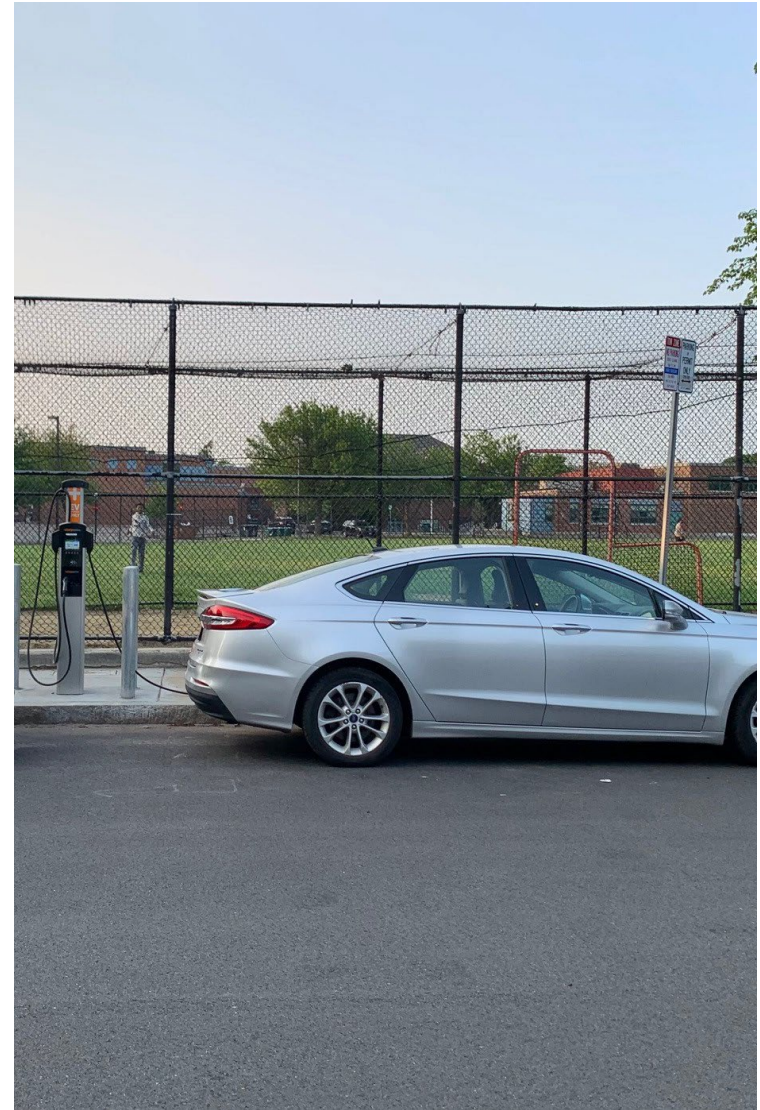
Meeting Purpose & Process

Purpose

- This meeting will update the public on the city's work to increase electric vehicle charging installations available to the public.

Process

- Share information using this slide deck and with map graphics.
- Plenty of time at the end of the meeting to collect feedback and answer questions.



Pemberton St

Agenda

Welcome!

1. Background, Context, Goals, Schedule
2. Existing and upcoming EV charger locations
3. Funding
4. Next Steps & Q and A



Pemberton St

Transportation Fuel Transition

- Transition underway from fossil fuel powered motor vehicles to electric vehicles
- State mandate for all new cars sold to be EVs by 2035
- Driven by: climate change, local air quality concerns, lower cost to own and operate, state and federal incentives



Lot 8 - Green Street

City Role

- City of Cambridge goal to eliminate greenhouse gas emissions by 2050
- City has installed EV chargers on public property to support the adoption of EVs
- Helps break down barriers to EV adoption
- Many households do not have driveways for private EV charging



Norfolk Street

Goals + Progress

Currently

- 39 publicly available level-two charging heads

End of 2024

- Goal of installing 16 additional level-two charging heads

2025 and 2026

- Goal of installing 44 additional level-two charging heads



Upland Road

Background and Context

Curb-side Charging

- City curb-side charging program focused on Cambridge residents without access to off-street parking
- Providing curb-side charging reduces one of the biggest barriers to EV adoption



Inman Street

Level 2 VS Level 3

Curb-side Charging

- Current focus is on Level 2 charging
- Actively evaluating locations for possible future Level 3 charging
- Level 3 charging equipment requires a lot of land
- Incentivize the private sector to invest in Level 3



A planned level 3 charger on Hamlet Street in Boston – the three metal cabinets and required setbacks use a lot of land

Signage and Regulations

EV Parking Rules

- Vehicles parked at an EV designated parking space must be plugged in
- Vehicles that are not plugged in may receive a parking violation
- Time limits, parking meters, parking permits, and other regulations apply



Please check signs in particular locations as regulations may change

Demand

Increasing Demand

- Data from 2023 & 2024 shows significant increases in # hours charging and other metrics

Public Input Tool

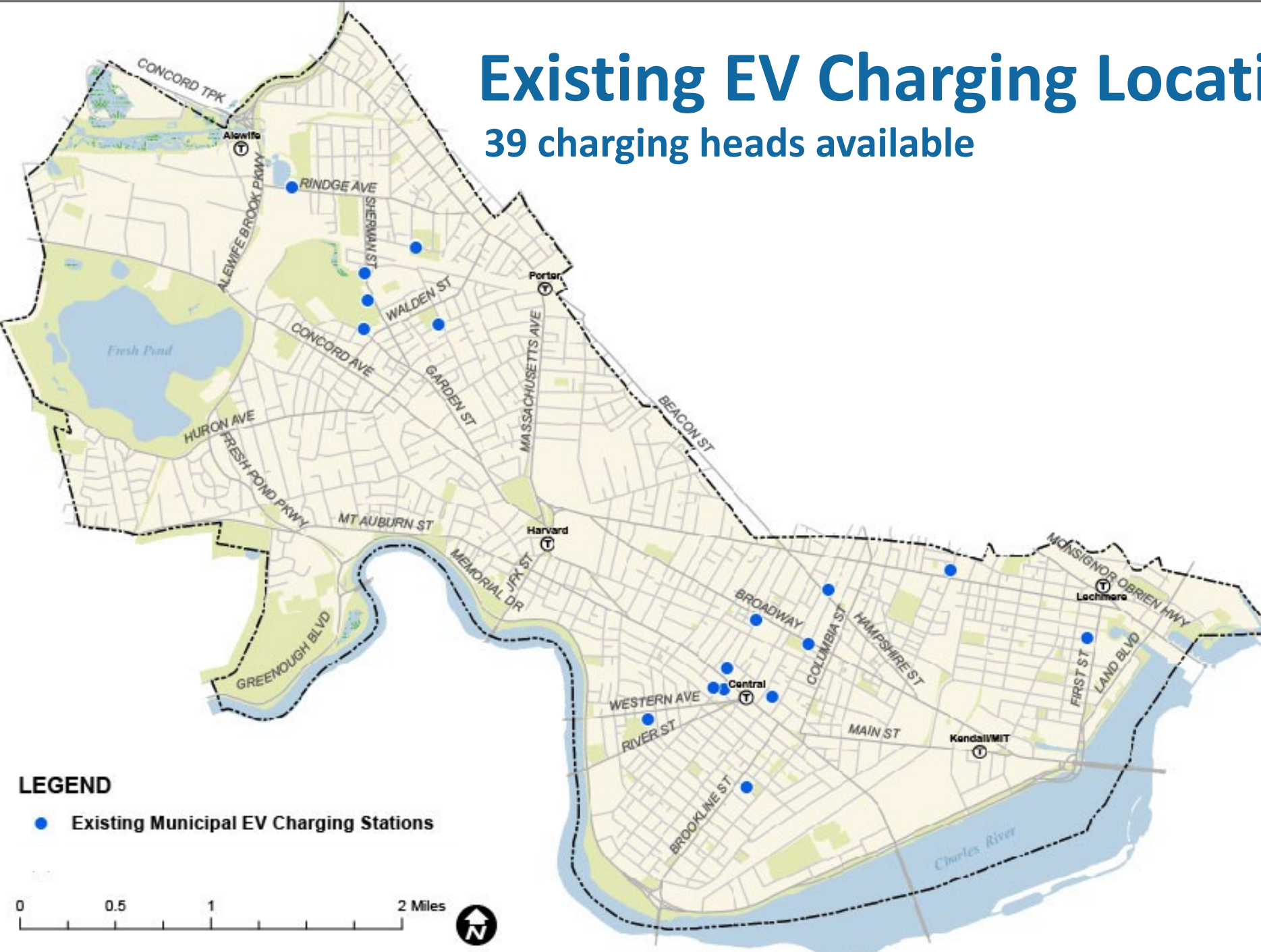
- Cambridge EV Charging request tool (Suggest-A-Station)
- Aid identifying areas with high demand
- Helpful data to have as we investigate additional sites

	2023*	2024*
# of Transactions	6,661	10,615
# of Hours (Duration)	27,407	49,129
# of Hours (Charging)	19,462	35,933
% of time at station spent charging	73%	77%
Average time spent charging	2:58:45	3:21:39
# of Unique Drivers	1,687	2,765

*Data from first 5 months of each calendar year.

Existing EV Charging Locations

39 charging heads available



LEGEND

- Existing Municipal EV Charging Stations

0 0.5 1 2 Miles



High Demand Stations

● Highest Total Transactions

● Highest Charging Time

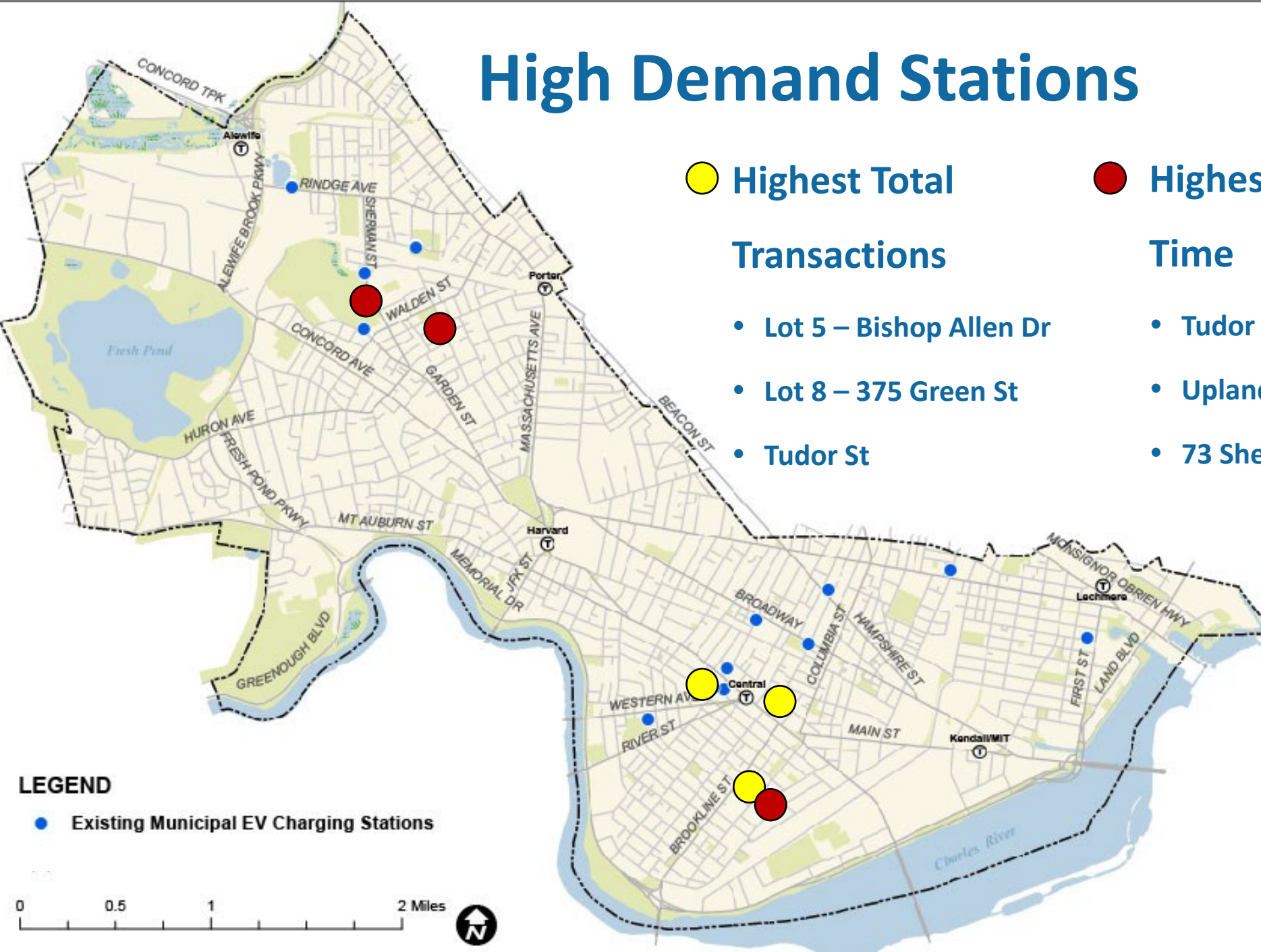
- Lot 5 – Bishop Allen Dr
- Lot 8 – 375 Green St
- Tudor St

- Tudor St
- Upland Rd
- 73 Sherman St / Salt Shed

LEGEND

● Existing Municipal EV Charging Stations

0 0.5 1 2 Miles



Locating New EV Chargers

EV Charging Station Suggestions

Cambridge, Massachusetts

May 2024

Number of Suggestions

2 - 5

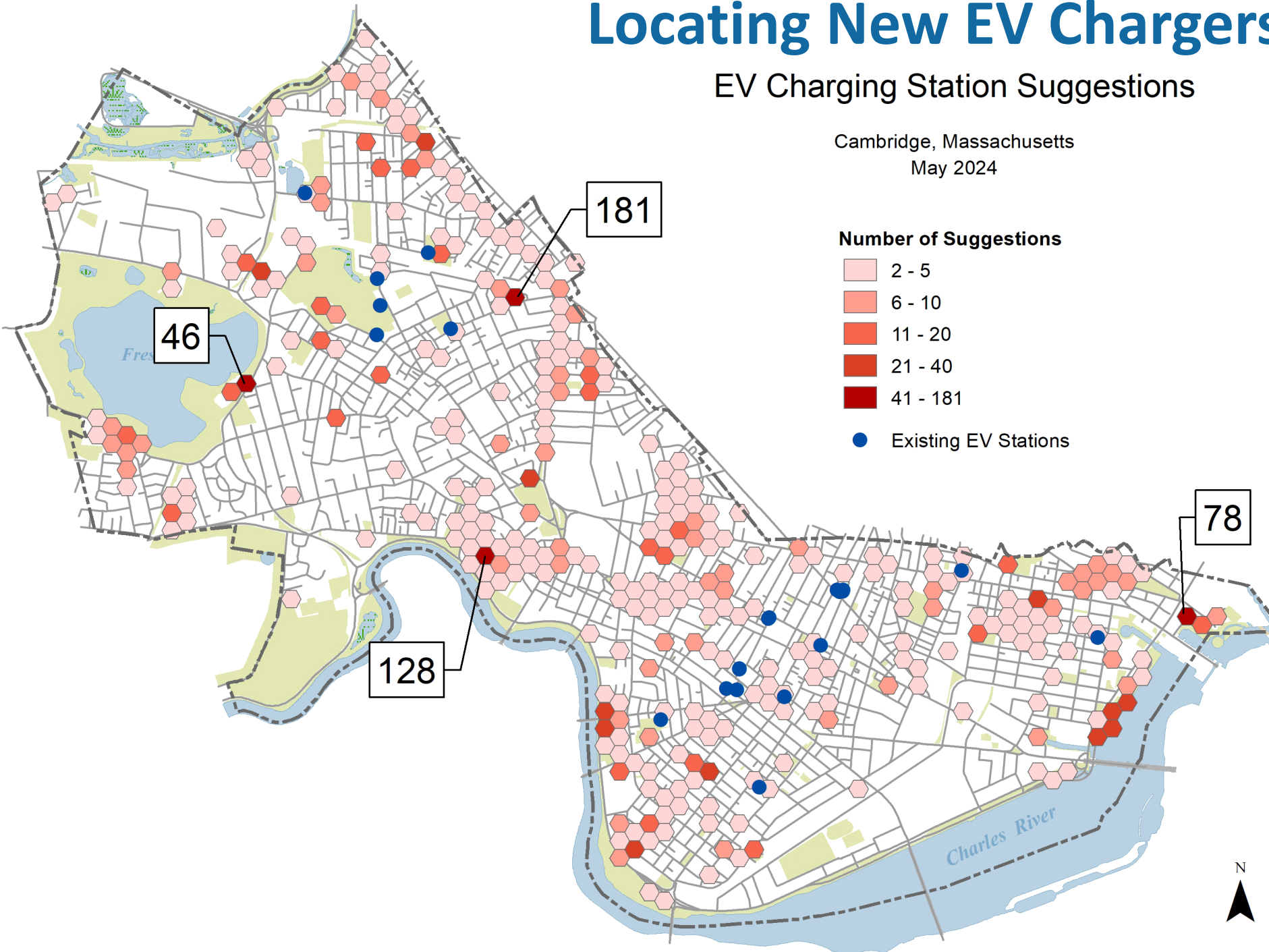
6 - 10

11 - 20

21 - 40

41 - 181

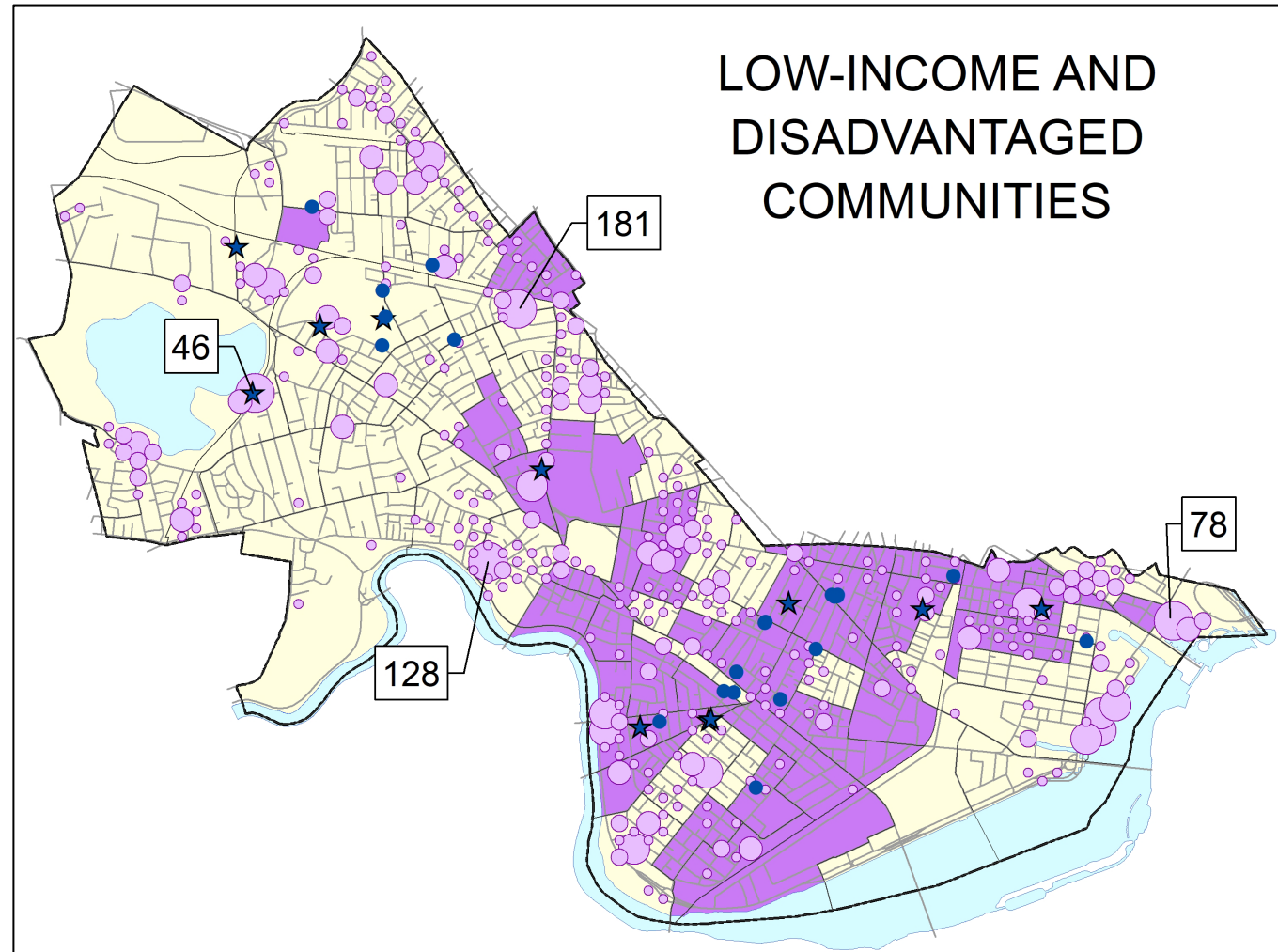
● Existing EV Stations



Locating Chargers

Using Environmental Justice Indicators
from the Environmental Protection Agency

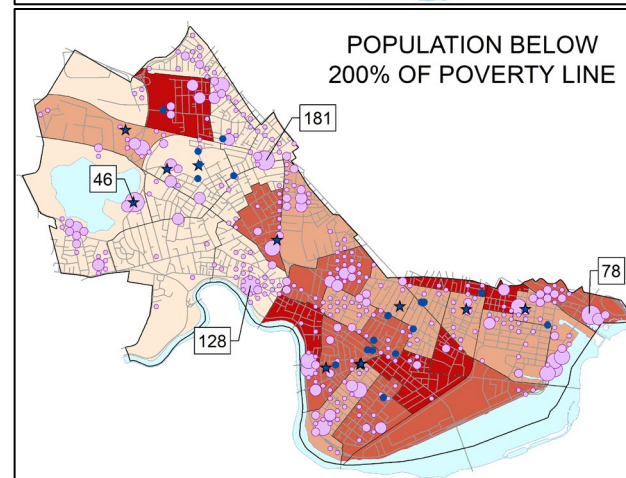
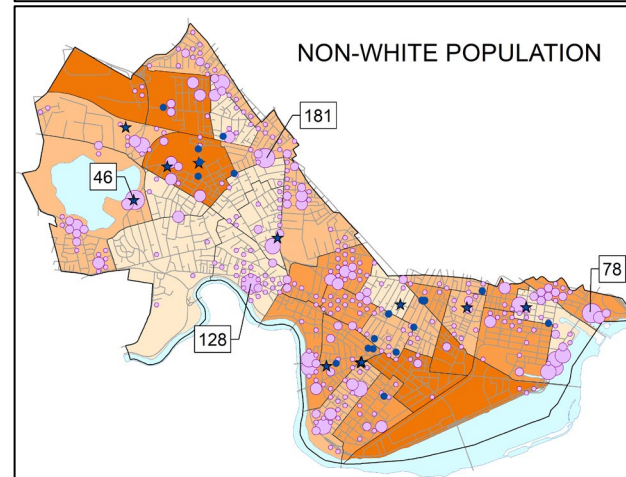
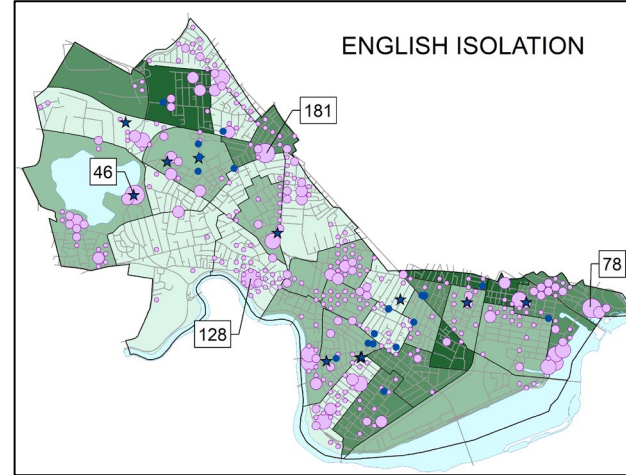
- Low Income and Disadvantaged
Communities (EPA EJ Screen Tool)



Locating Chargers

Using Environmental Justice Indicators from the American Community Survey

- English isolation
- Percent minority
- Low-income / impoverished



Funding Sources

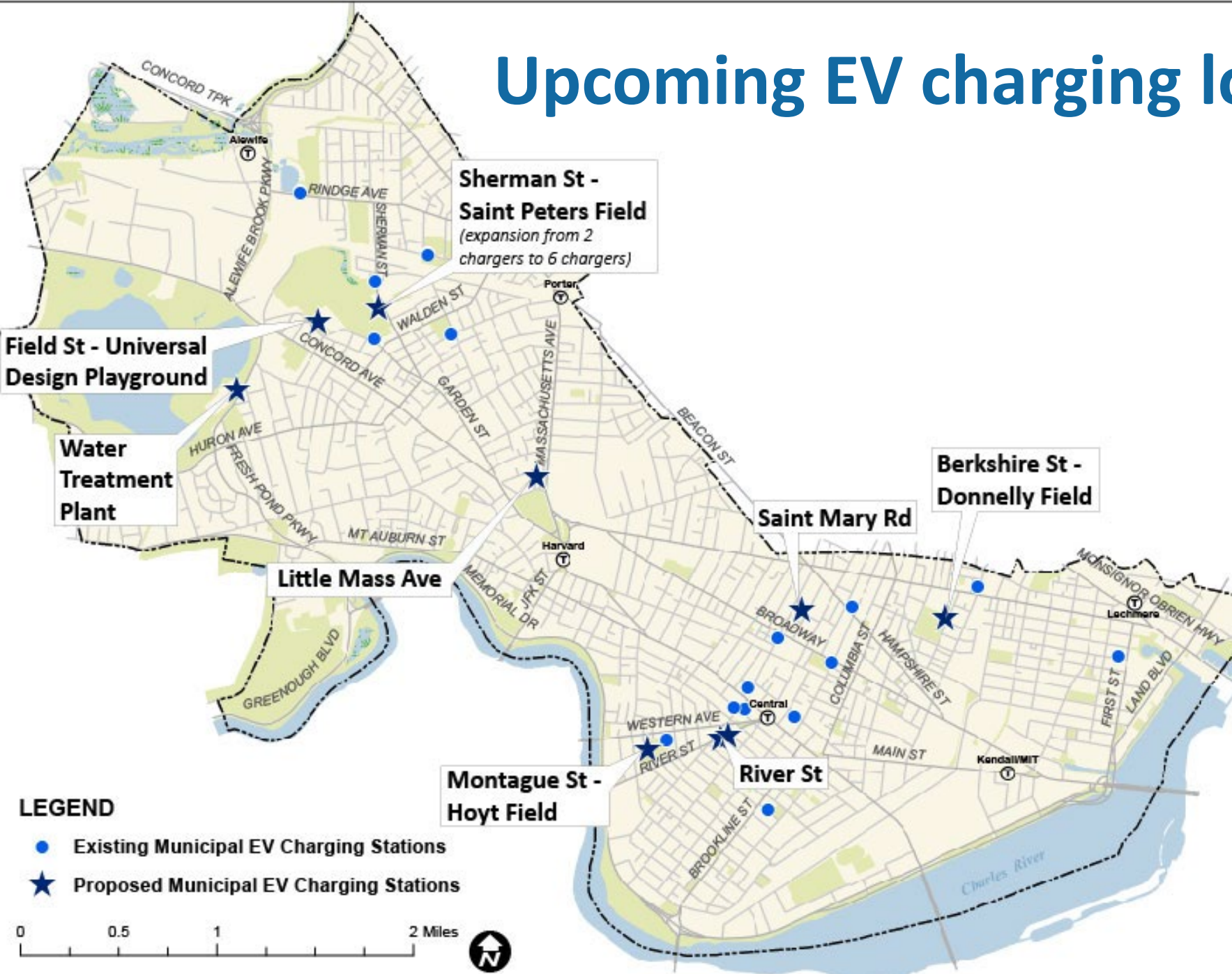
- **City Funding: Capital and Participatory Budget**
- **Grant Funding: \$1 million set aside by Rep. Ayanna Pressley**
- **Federal funding opportunities**
- **Eversource Make Ready / MassDEP Electric Vehicle Incentive Program**



Sherman St

Upcoming EV charging locations

New locations planned for construction in 2024 + 2025



Where	Charging Heads
Saint Mary Rd	4
Berkshire St	4
Little Mass Ave	4
Fresh Pond	6
Montague St	4
River St	4
Field St	3
Sherman St	4

Total: 33

Saint Mary Road

- Planned for late summer 2024
- 4 level-two charging heads
- Will remain residential permit parking
- Spot closest to intersection will be accessible



Berkshire St at Donnelly Field

- Planned for late summer 2024
- 4 level-two charging heads
- Will remain residential permit parking
- Head-in parking at Donnelly Field –
Opposite Marney Street



Little Mass Ave

- Planned for late summer / early fall 2024
- 4 level-two charging heads
- Two spaces will remain metered parking
- Two spaces will remain residential permit parking
- New pedestrian curb ramp for accessibility



Fresh Pond

- Construction is underway today
- Planned for late summer / early fall 2024
- 6 level-two charging heads
- Will remain residential permit parking parking
- Accessible spot with new pedestrian curb ramp to water treatment building



Montague St at Hoyt Field

- Goal is by end of 2024
- 4 level-two charging heads
- Will remain residential permit parking parking
- Head-in parking at Hoyt Field



Universal Design Playground - Field Street

- Goal is by end of 2024
- 3 level-two charging heads
- Accessible spot with new diagonal striping in the adjacent area for folks with accessible car ramps



Saint Peters Field – Sherman Street

- Goal is by end of 2024
- Expansion from 2 level-two charging heads to 6 level-two charging heads (4 new)
- No curbing present so no new pedestrian curb ramp needed
- One space with additional diagonal striping for folks with accessible car ramps



Future planning

Working to identify suitable sites with high demand for the next round of installations





Planning for the next round of installations – locations under consideration

- Columbia Street (Clement Morgan Park)
- Wheeler Street
- Harvard Street (Greene Rose Heritage Park)
- Harvard Street (Between Quincy and Prescott)
- Oxford Street (Baldwin School)
- Haskell Street
- Corporal McTernan Street (Dana Park)
- Ware Street
- Flagg Street (Corporal Burns Playground)
- Market Street (Arthur Shallow Playground)
- Upland Road (near Richdale)
- Cedar Street
- Charles Street (Anthony Costa Playground)
- Sciarappa Street (Silva Park)



Next Steps

- **Secure federal \$1 million and work with MassDOT**
- **Design next round(s) of locations for construction**
- **Review locations for fast charging**
- **Continue to review input into the online public input map**
- **Sign up for our e-newsletter, where we will send out updates when stations come online later in 2024**

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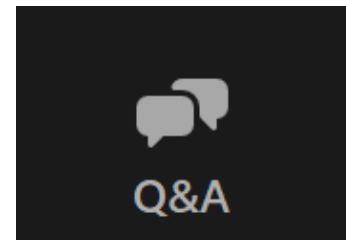


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City of Cambridge

Community Development Department + Department of Public Works

Bill Deignan, Sr. Transportation Program Manager

Wdeignan@cambridgema.gov

Charlie Creagh, AICP, Transportation Project Planner

Ccreagh@cambridgema.gov

Jim Wilcox, City Engineer

Jwilcox@cambridgema.gov

Ted Bulger, Senior Engineer

Tbulger@cambridgema.gov

Thank You

