



Nannie Helen Burroughs Avenue Bus Priority Project and Transit Hub

03/26/2024

DDOT - Bus Priority

- Encourage alternatives to private automobile transportation within the District
- Improve bus speeds and reliability
- Project pipeline
 - Projects approx. 1-2 miles in length
 - Allows DDOT to make improvements more quickly across more corridors
- 51 projects
 - Nannie Helen Burroughs (Minnesota Ave to Eastern Ave NE) : Bus Priority Project #14



Bus Priority Plan

DECEMBER 2021

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DISTRICT OF COLUMBIA
MURIEL BOWSER, MAYOR

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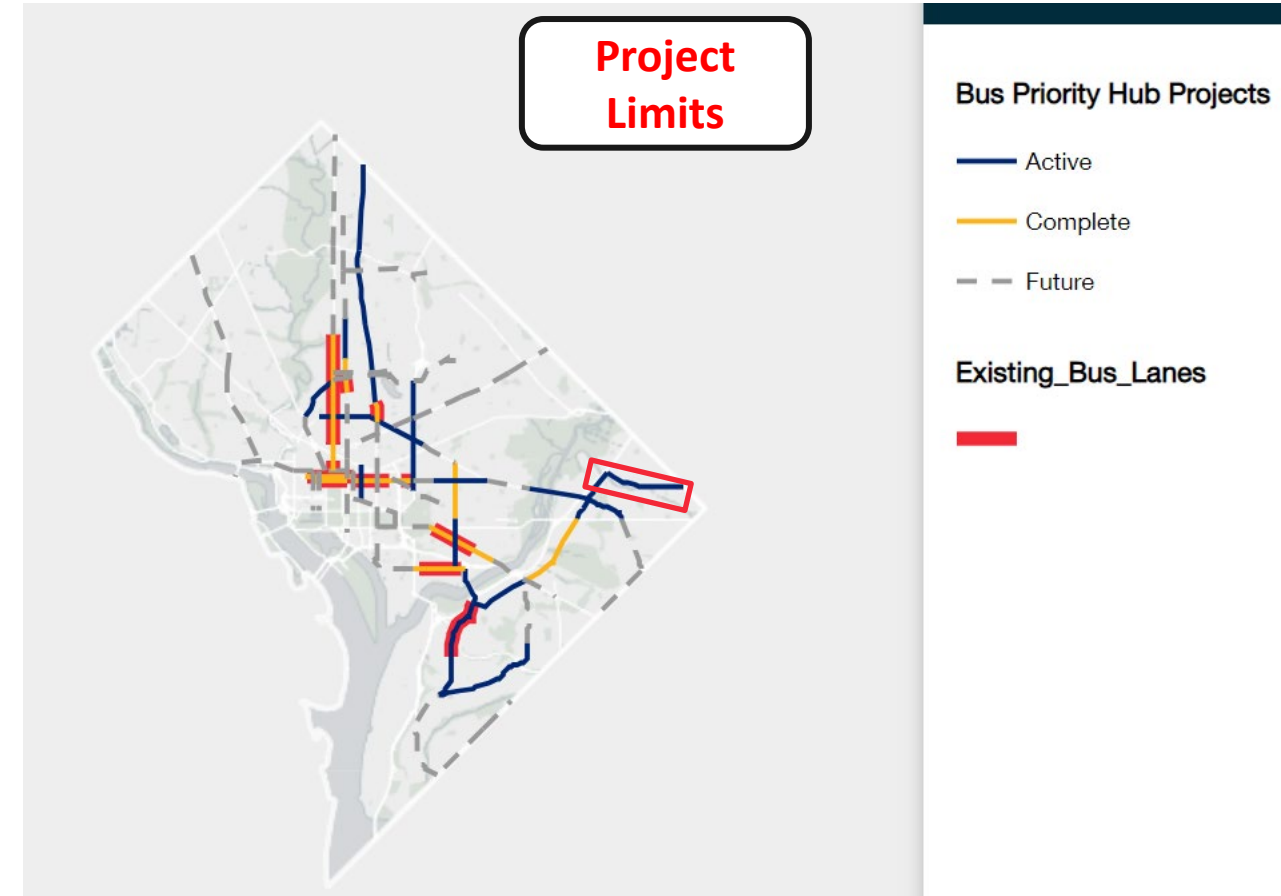
Project Timeline

- Kick-Off (Summer 2022)
 - Internal agency meeting
 - Initial engagement with ANCs & BIDs
 - Development of project scope
 - Data collection
- Concept Development (Spring 2023)
 - Develop concepts
 - Receive initial concept review and comments
 - Scope traffic analysis
 - Conduct meetings to ANCs & BIDs
- Begin Design & Issues NOI (2024) ←
- Construction (2025)



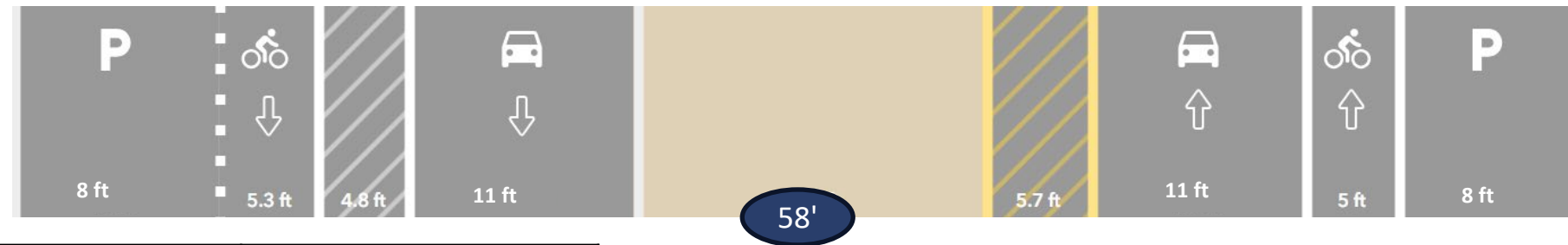
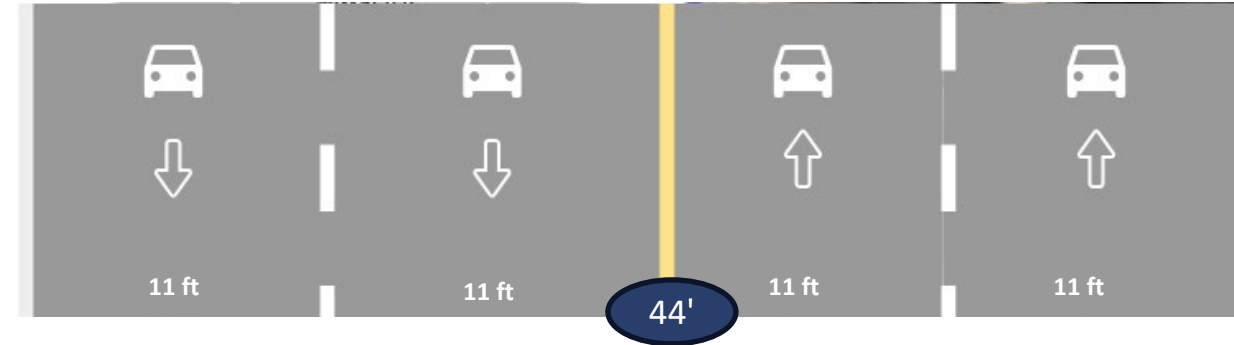
14. Nannie Helen Burroughs NE

- Project ~1.4 miles in length
- Connects to bus priority projects on
 - #16 Minnesota Ave (Nannie Helen Burroughs to East Capitol)
- Project Goals:
 - Increase pedestrian comfort and safety across the corridor
 - By lowering average traffic speeds and improving pedestrian visibility
 - Improving bus speeds through the intersection at Minnesota Avenue NE
 - Improve bus speeds and reliability along the corridor
 - By implementing strategies and treatments outlines in the [Bus Priority Toolbox](#)



Existing Conditions – Right of Way

- Right-of-way (ROW):
 - The roadway has a configuration is 2 travel lanes in each direction, each lane ~11 ft wide
 - The roadway also widens and includes a concrete median and one travel lane in each direction with a bike lane, buffer and parking lane



Section of Corridor	AADT
Minnesota Avenue NE to 48th Street NE	17,892
48th Street NE to 51st Street NE	14,619
51st Street NE to Eastern Avenue NE	7,433

(Traffic Volume 2019 – Open Data DC)

Bus Service

- Average Daily Bus Boardings:
 - V2: 1,508
 - V4: 1,291
 - X9: 1,481
- Transit Service:
 - V2: 15 – 30minute headways
 - V4: 13 – 30minute headways
 - X9: 15 – 16minute headways
- Average Bus Frequency per Hour:
 - Eastbound: 10.5
 - Westbound: 10
- Headway Regularity:
 - 80.1% of the time (between 4/25/22 - 4/29/22)

- Busiest Stops along Corridor: (East & Westbound Paired Stops)



44th Street NE



49th Street NE



Division Avenue NE

Corridor Bus Speeds:

- **Eastbound:**

- Based on the average bus speeds measured along the project’s corridor (Tableau):

- 42.9% of the corridor’s length traveled at <10 mph
 - 28.6% of the corridor’s length traveled at <10 mph
 - 14.3% of the corridor’s length traveled at <10 mph

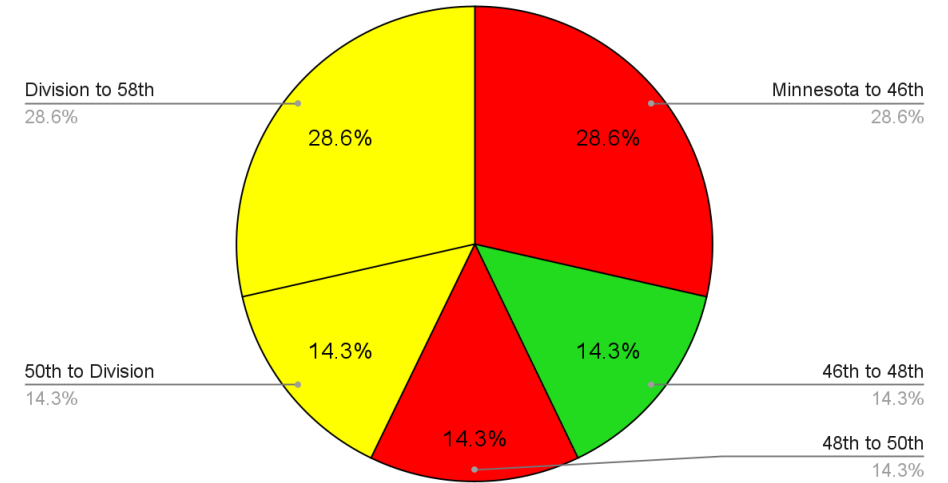
- **Westbound:**

- Based on the average bus speeds measured along the project’s corridor (Tableau):

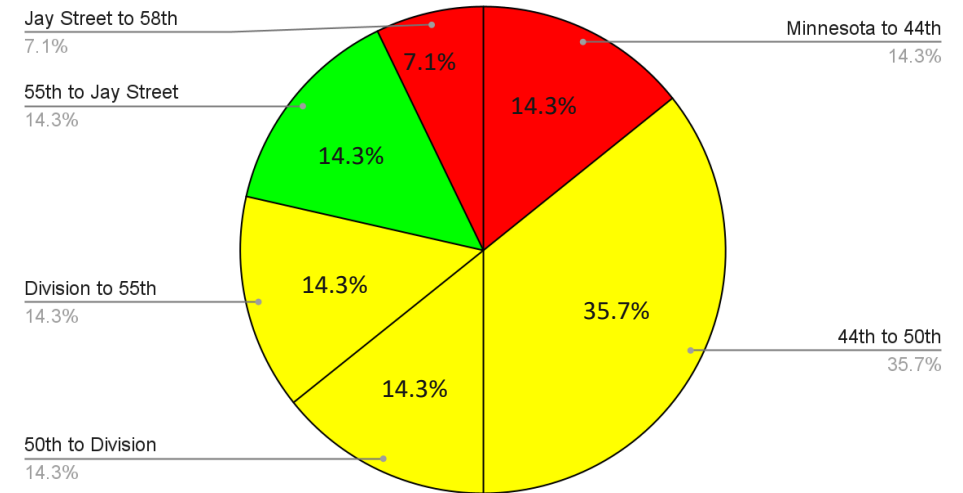
- 21.45% of the corridor’s length traveled at <10 mph
 - 64.3% of the corridor’s length traveled at <10 mph
 - 14.3% of the corridor’s length traveled at <10 mph

Avg. Speed	Color
0-10mph	Red
11-17mph	Yellow
18+mph	Green

Eastbound Speeds based on % of Corridor Length Over All

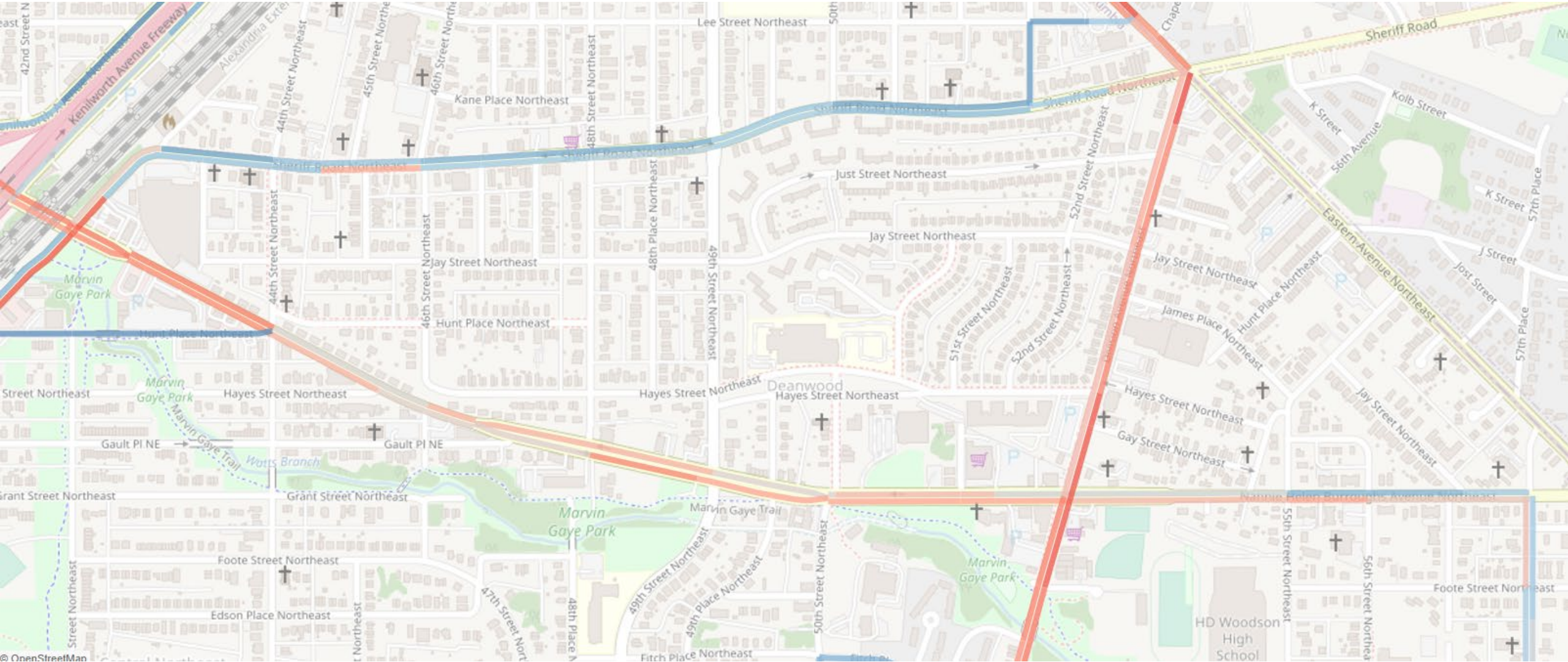


Westbound Speeds based on % of Corridor Length Over All



Passenger Delay

Brighter red = more delay



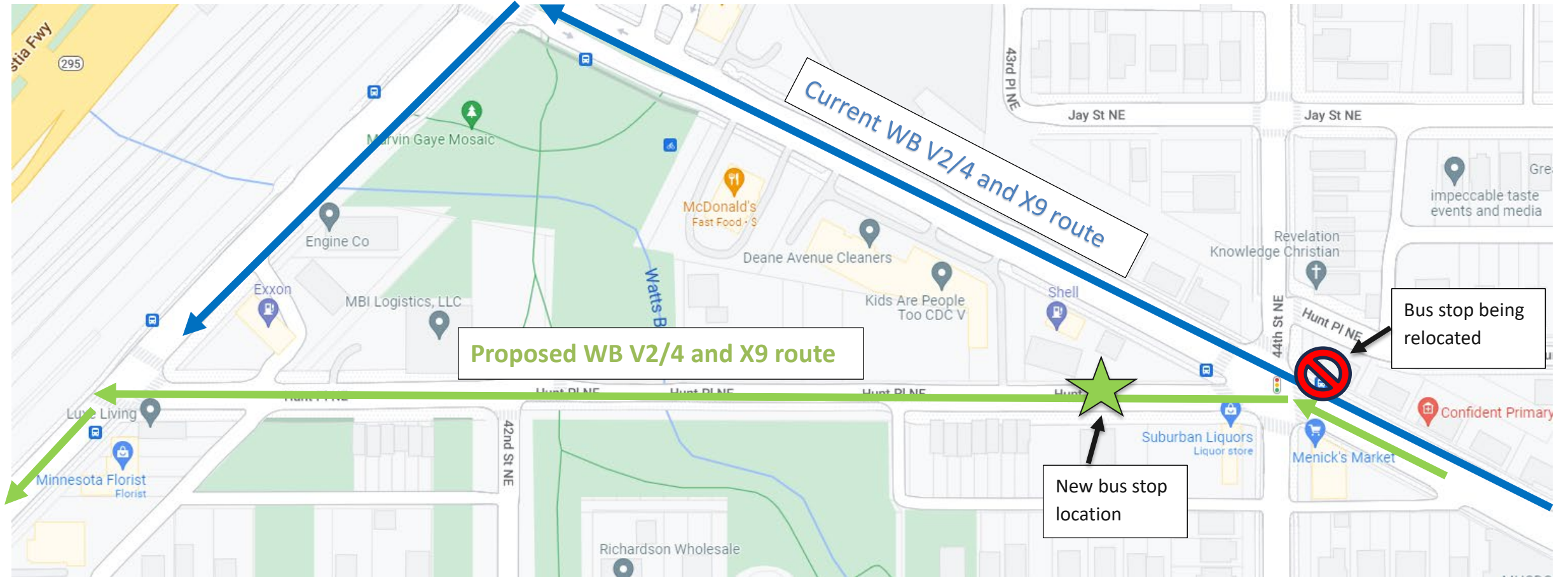
Corridor Concepts

- Bus Reroute
- Bus Stop Rebalancing
- Reduced Speed Limit
- Curb and Median Extensions
- Pedestrian Refuge Islands
- Bus Bulb-Outs
- Transit Hub



Hunt Place Reroute

Hunt Place Re-Route Concept



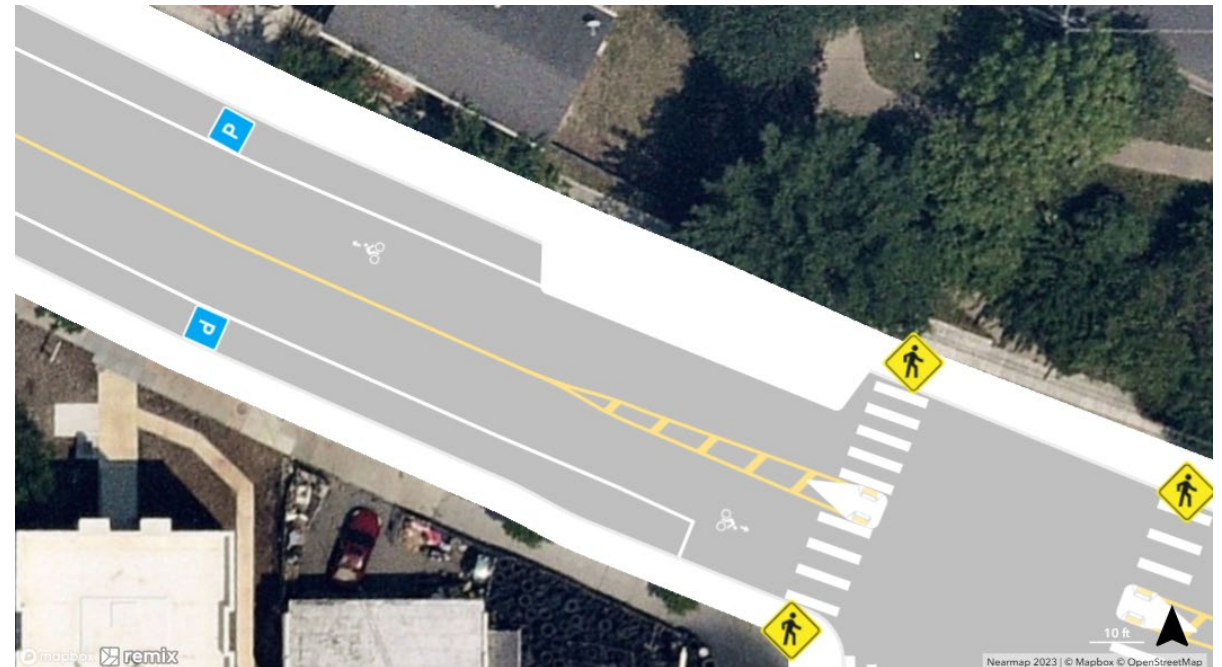


Typical Intersection



- Pedestrian Refuges
 - Narrows Roadway
 - RFB
- Curb Extensions
 - Shortens crossing

- Bus Bulb-outs
 - Narrows Roadway
 - Improves bus speed
 - More space in waiting area for bus riders



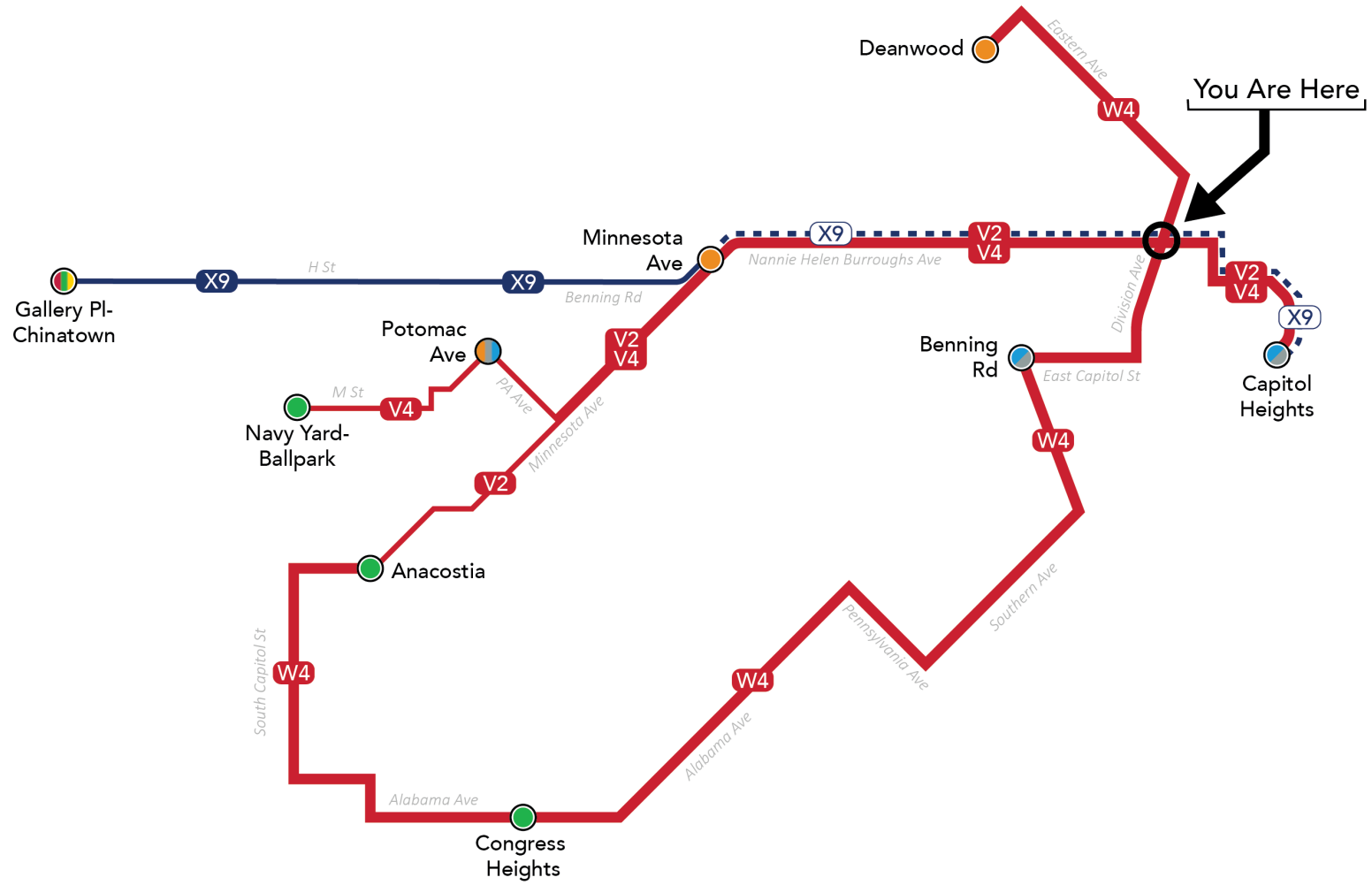


Transit Hub

What is a Transit Hub?

- Also known as a mobility hub
 - NOT near a Metrorail station
 - Has a variety of transportation elements to help travel from point A to point B
- Locations:
 - **Nannie Helen Burroughs Ave and Division Ave**
 - High Ridership bus stops
 - Transfer point between W4 and V2/4
 - Near HD Woodson High School
 - Alabama Ave and Good Hope Rd
 - In coordination with another DDOT project

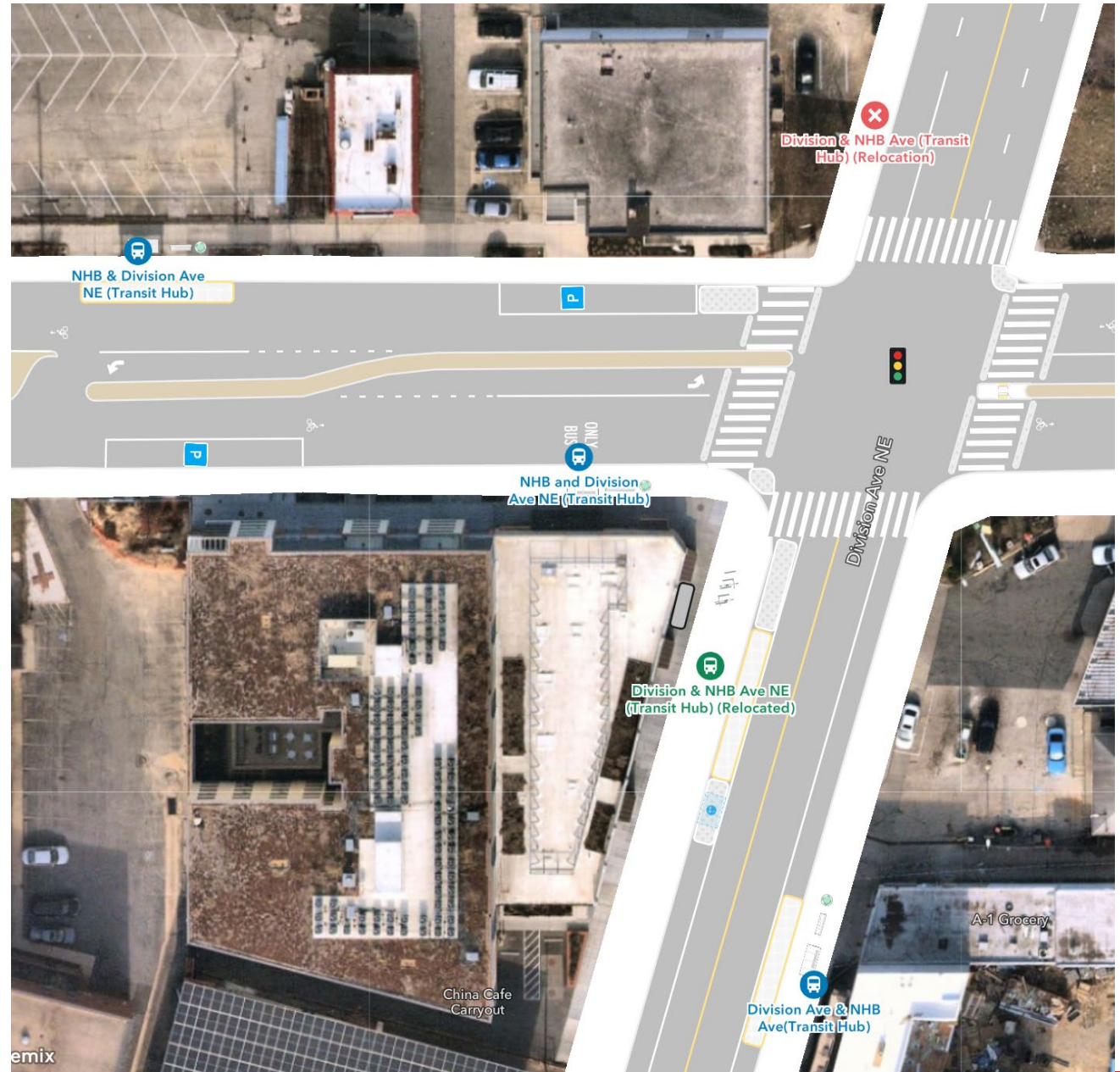
Nannie Helen Burroughs Ave & Division Ave Transit Hub Services



NHB and Division Ave Transit Hub

Improvements

- Bus Bulb-outs
- Bus Stop Relocation
- Real-time Bus Information
- Bus Shelters
- Pedestrian Safety
- Placemaking Art
- Scooter Corrals
- Enhanced Lighting
- Queue Jump



Summary of Design Goals

- Rebalance Bus Stop Spacing
 - Relocate 4 bus stops from near-side to far side
 - Removing 2 bus stops because of close stop spacing
- Minnesota Avenue Intersection
 - Reroute buses to use Hunt Pl to avoid backed up intersection
- Bus Stop Improvements
 - Transit hub bus stops with real-time bus arrival times
 - Installation of bulb outs at select bus stops
- Pedestrian Safety
 - Installation of pedestrian islands for increased comfort while crossing and to improve pedestrian visibility
- Traffic Calming
 - Reduced speed limit
 - Curb Extensions and daylighting

Thank You!

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<https://buspriority.ddot.dc.gov/pages/nhbne>



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