WARREN STREET CORRIDOR CONTEXTUALIZING THE PROJECT



City of Boston Transportation

GO BOSTON 2030

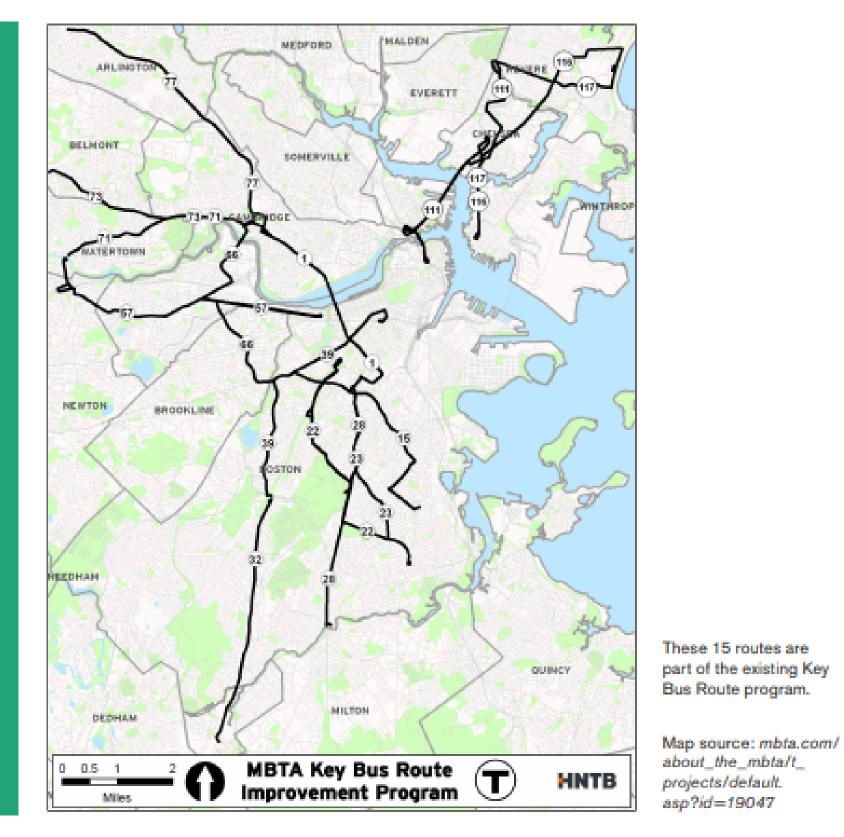
Crosstown

Bus Service Reliability Improvements

Ensure that each of the 30 bus routes with the highest ridership operate more effectively

Policy Description

In 2013 and 2014, the 15 bus routes in the MBTA system with the highest



ACTION PLAN Projects and Policies

Policy Score Access 1 Access 2 O Safety 1 O Safety 2 Reliability Affordability Sustainability/Resiliency 1 Sustainability/Resiliency 2 Governance Identified on the ballot as an Early Action commitment

GO BOSTON 2030

 Go Boston 2030 is the City's mobility action plan. The plan features 58 projects crafted by community members, and committed to by the Transportation Department. One of those projects calls for changes to how Warren St. functions for buses. (See left)

ridership were the focus of a project to consolidate stops and develop a schedule with more frequent service, "with buses arriving every 10 minutes or better during weekday peak periods, every 15 minutes or better during weekday midday, and every 20 minutes or better during off-peak periods." Now, these bus routes, along with the next 15 busiest, will be the focus of further improvements including exclusive bus lanes where there is a segment of particularly high ridership and a high frequency of buses, off-board payment or another system that allows for all-door boarding, signal priority when buses run behind schedule, and better bus stops.

Benefits and Issues Addressed

While buses have to stop regularly on a route to serve passengers effectively, they should remain an efficient and reliable way to travel through the city. Improving the boarding process and helping buses advance past other vehicular congestion will mitigate the two most common types of existing delays that plague essential MBTA routes now serving neighborhoods with little or no subway service. Though all buses should provide excellent customer service, be safe and comfortable, and meet the needs of people with disabilities, improvements to 30 routes with the highest ridership will make a significant impact on transit reliability and use.

Best Practices

Select Bus Service is a system of key bus routes in NYC that have been (or will be) improved using more frequent service, fewer stops, off-board fare payment, real time arrival signs, signal priority, and bus lanes.

web.mta.info/mta/planning/sbs/



Image Source: www.nyc.gov/html/brt/html/routes/34th-street.shtml

Implementation

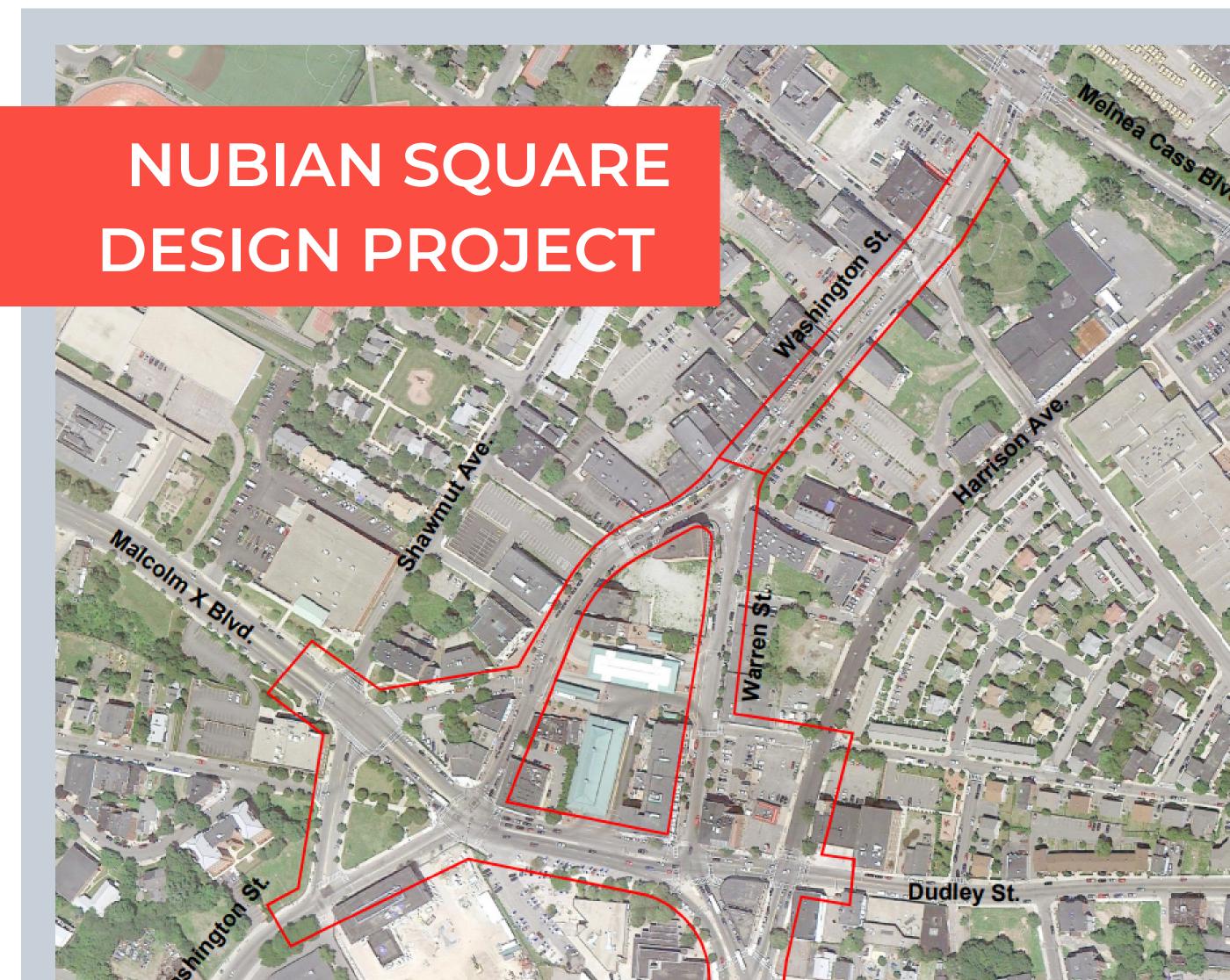
Approximate Cost: TBD Potential Funding Sources: MassDOT/MBTA for construction with City capital plan for street design Who's responsible: MassDOT/MBTA and BTD Time Frame: Ongoing

Construction and improvements for Key Bus Routes was completed in 2014, with the exception of minor adjustments, using a \$10 million grant from the American Recovery and Reinvestment Act. (MBTA, April 2015)

Public Input

"Keep up bus service during the day so that it's a reliable way to run errands or get to meetings between peak times." The City's ambitious transit and bicycle use goals will not be reached without significant improvements to bus service and bike facilities. This project features a proposal for both. (See below)

Mode for Bostonian		Data Source: 2013-2017 ACS 5-year estimates
Commutes	Today*	2030 Aspirational Goal
Public Transit	34%	Up by a third
Walk	14%	Up by almost a half
Bike	2%	Increases fourfold



Carpool	6%	Declines marginally
Drive Alone	39%	Down by half
Other/Work from Home	5%	Slight increase in Work from Home

Percent of Boston Residents with 60+ Minute Commutes





 This projects builds on the Nubian Square Design Project, which entered the planning phase in 2012 and is currently under construction. That project will improve pedestrian safety, increase greenery, and add a two-way cycle track along Warren from Dudley St. to the Boys & Girls Club.

WARREN STREET CORRIDOR THE STRONG CASE FOR BUS PRIORITY



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HIGH **RIDERSHIP**



#1 In Ridership

Route 28 which serves Warren, hosts the highest ridership in the

MBTA bus

network

Of Street Users Over 60% of both morning and evening rush hour travelers along

Warren are on

buses

30

64%

20,272 **Daily T Riders** Between Blue Hill Ave. and Dudley St., over 20,000 bus riders travel

along Warren

every weekday

SEVERE DELAYS



20 Minute Delays The average bus rider experiences 20 minutes longer than necessary travelling on Warren each day

Minute Delays When traffic is at its worst, bus riders can spend 30 minutes longer than necessary along Warren

2.5 Hours per Week Due to severe delays, bus riders are spending as much as 2.5 hours longer than necessary on Warren per week





90% **Minority Riders** 90% of Warren St bus riders identify as minorities; as a result, Warren's delays are primarily impacting

62%

Low-Income

62% of Warren bus riders are lowincome earners; these riders face a disproportionately negative travel experience

65

Hours a Year

On average, black riders each spend 65 hours longer a year on buses than white riders; Warren's delays contribute heavily to that

2nd

commuters of color

4th



Worst Reliability **Worst Reliability**

As of 2018, Route 19, which serves Warren Street, had an on-time on-time performance of 43%; 2nd worst in the entire system system

Route 14, also serving Warren Street communities, had an performance of 49%; 4th worst in the

WARREN STREET CORRIDOR PARKING STUDY METHODOLOGY



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TO CREATE A ROADWAY DESIGN THAT WORKS, WE NEED TO UNDERSTAND DEMAND.

HOW WE MEASURED PARKING USE IN THE CORRIDOR











- To identify parking regulations and capacity on Warren.
- To measure existing demand for on-street parking.



TAKING A LOOK AT SIDE-STREET UTILIZATION

- Assessment of side-street parking regulations.
- Measurement of side-street capacity to serve existing demand.



MEASUREMENT STRATEGY

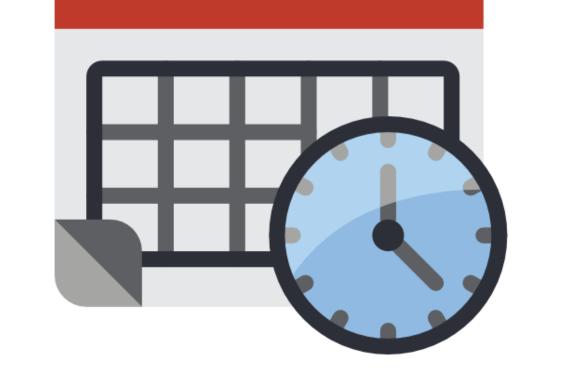


HOW WE COLLECTED DATA

- Two teams of two travelled the corridor noting whether every spot on their side of Warren was populated by a vehicle.
- One team collected southbound side data, and the other collected northbound side data.
- Another two teams of two collected the same data, but on side-streets the length of one block off of Warren.
- Data was collected in 30 minute intervals.



MEASUREMENT TIMING

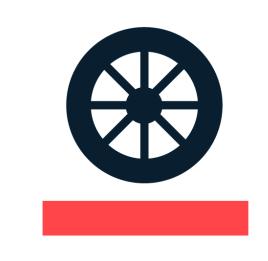


CREATING A WELL-ROUNDED PICTURE

Tuesday and Thursday the week of May 20th, 2019.
 From 7am to 8pm in 30 minute intervals.

- Sunday May 25th and Sunday June 1st, 2019.
 From 8am to 2pm in 30 minute intervals.
- Tuesday, Thursday, and Saturday the week of Feb. 3rd, 2020
 From 8pm to 11:30pm in 30 minute intervals.

WARREN STREET CORRIDOR PARKING STUDY RESULTS

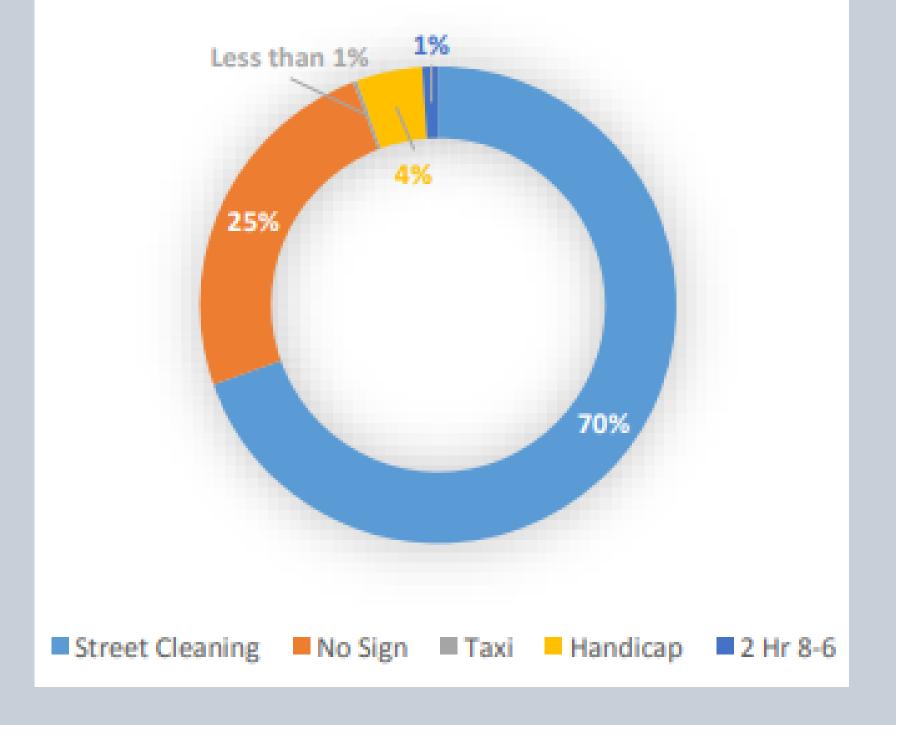


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THERE ARE 378 PARKING SPOTS ON WARREN. 94% OF THESE ARE UNREGULATED.

STUDY RESULTS: WEEKDAYS

Parking Regulations along Warren Street



Daily average parking occupancy on Warren

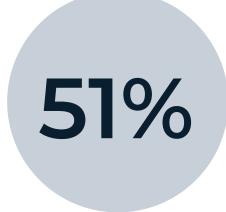




Both AM and PM peak commute period occupancy



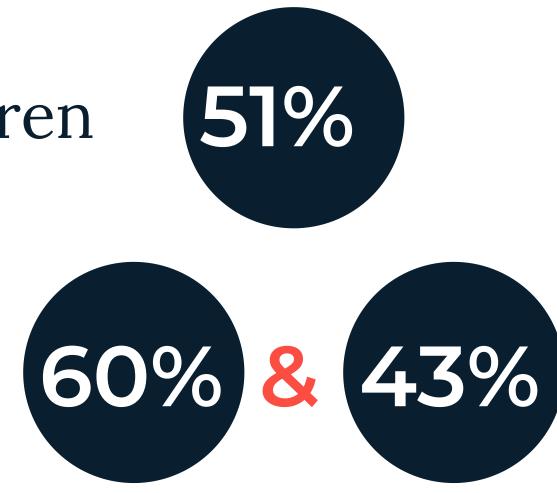
At 10am, when parking on Warren reached its highest utilization, 56% of available spaces were used.



Side street parking was most occupied around 6:30pm, and never exceeded 51% utilization.

Existing parking regulation along Warren

STUDY RESULTS: SUNDAYS

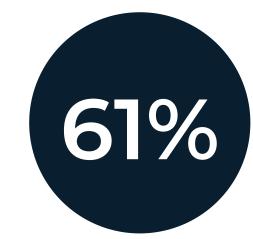


Sunday daily average parking occupancy on Warren

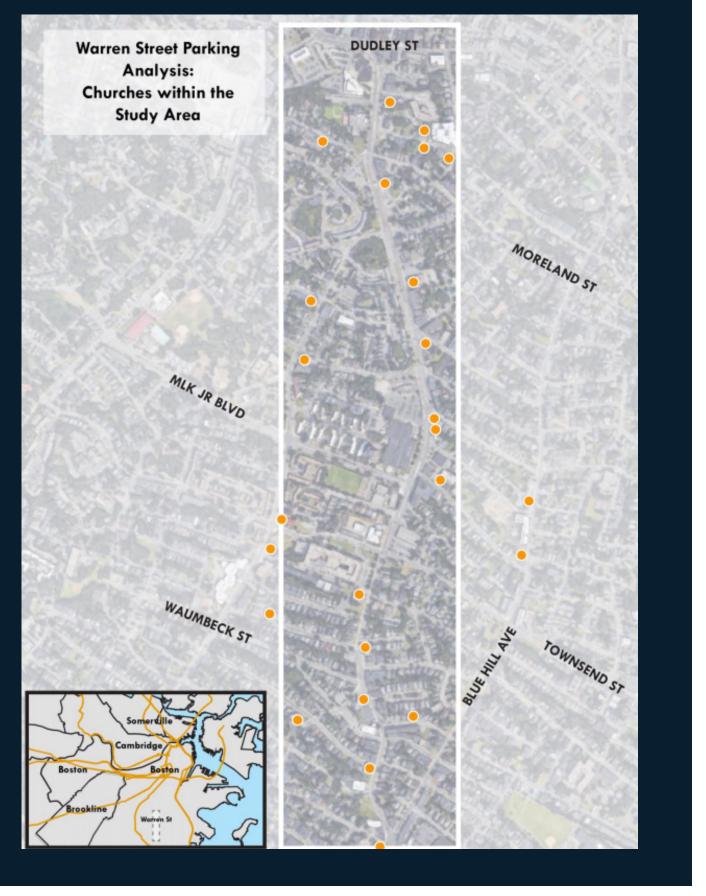
Average inbound occupancy was 60%, while outbound occupancy was 43%. This is likely due to church locations.



At noon, when parking on Warren reached its highest utilization, 63% of available spaces were used.



Side street parking was most occupied around 8:00am, and never exceeded 61% utilization.



Churches near and along Warren

STUDY RESULTS: LATE NIGHT



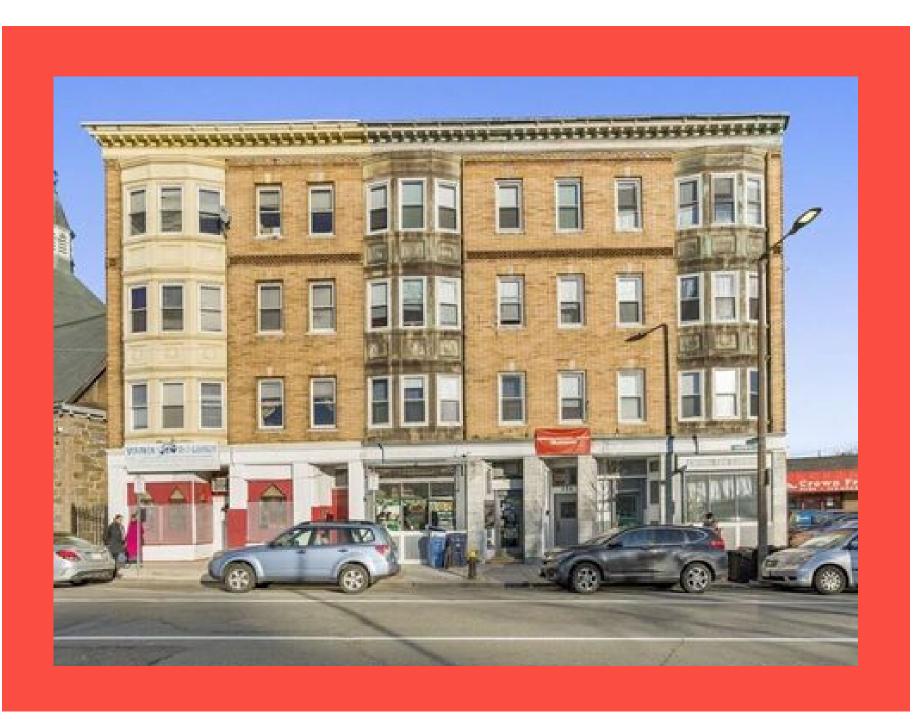
Late night average parking occupancy on Warren



At 8:00pm, when parking on Warren reached its highest late night utilization, 47% of available spaces were used.



Side street parking was most occupied around 11:30pm, and never exceeded 68% utilization.



WARREN STREET CORRIDOR **OFF-STREET PARKING NEAR WARREN**



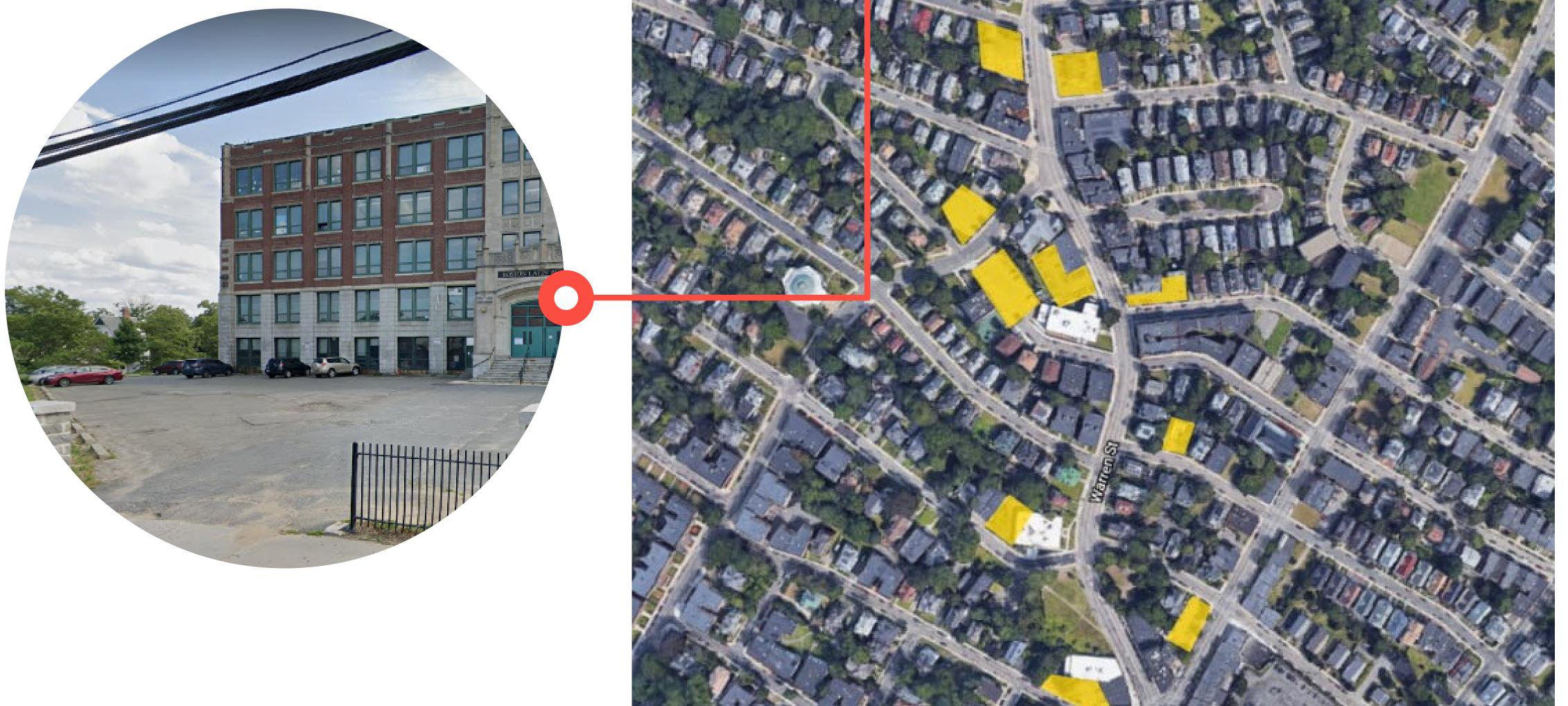
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2,084





OFF-STREET PARKING SPOTS

With over 2,000 offstreet parking spots within 1 block away from Warren, the commercial, worship, educational, and community service establishments that characterize the street are not solely dependent

on on-street parking to support them.

WARREN STREET CORRIDOR MEASURING THE TRANSIT BENEFITS



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WHAT WE HAVE SEEN FROM OUR OTHER BUS LANES





BUS TRAVEL TIMES BETWEEN ROLINDALE SQUARE AND



FOREST HILLS DECREASED BY

PEAK PERIOD BUS RIDERSHIP ALONG THE LANE INCREASED BY 160 people



BRIGHTON BUS LANE - 2019



LESS THAN 1 MILE OF BUS LANE IMPROVED ROUTE 57 RELIABILITY BY 3.5% IN



about

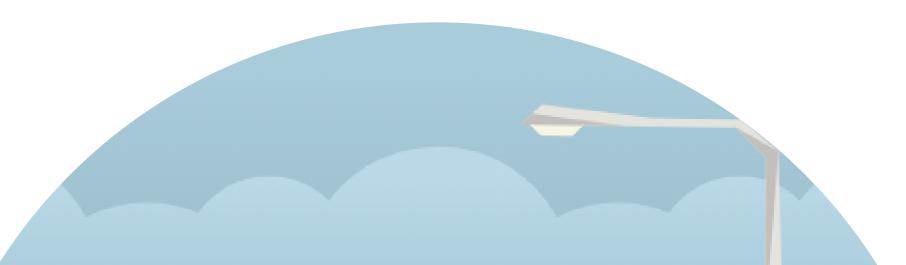
10%



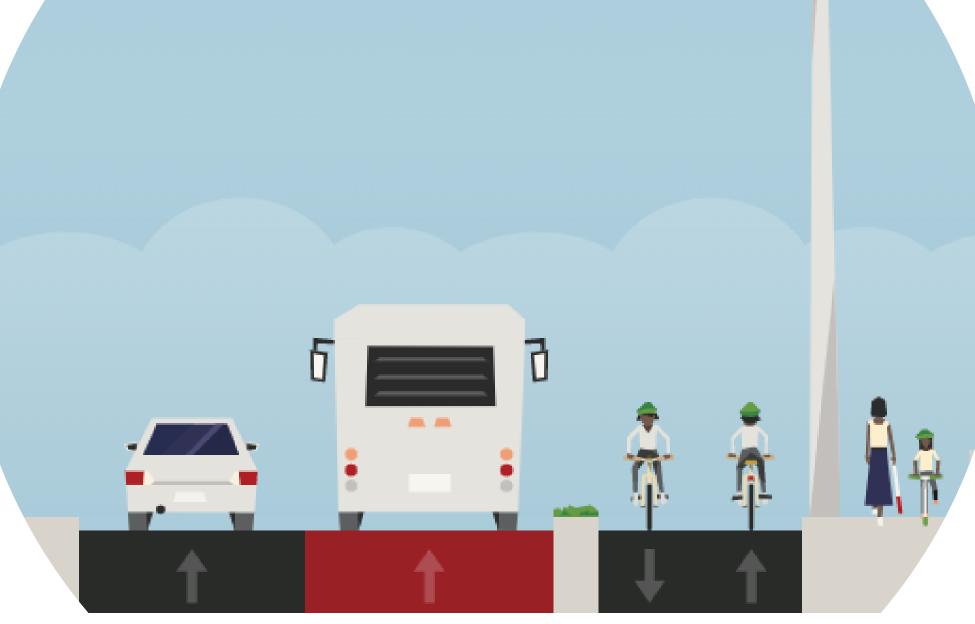


WHAT TO EXPECT IF THIS DESIGN COMES TO WARREN





POTENTIAL WARREN BUS LANE - SOUTHBOUND



PEAK PERIOD BUS TRAVEL

TIMES DECREASED BY

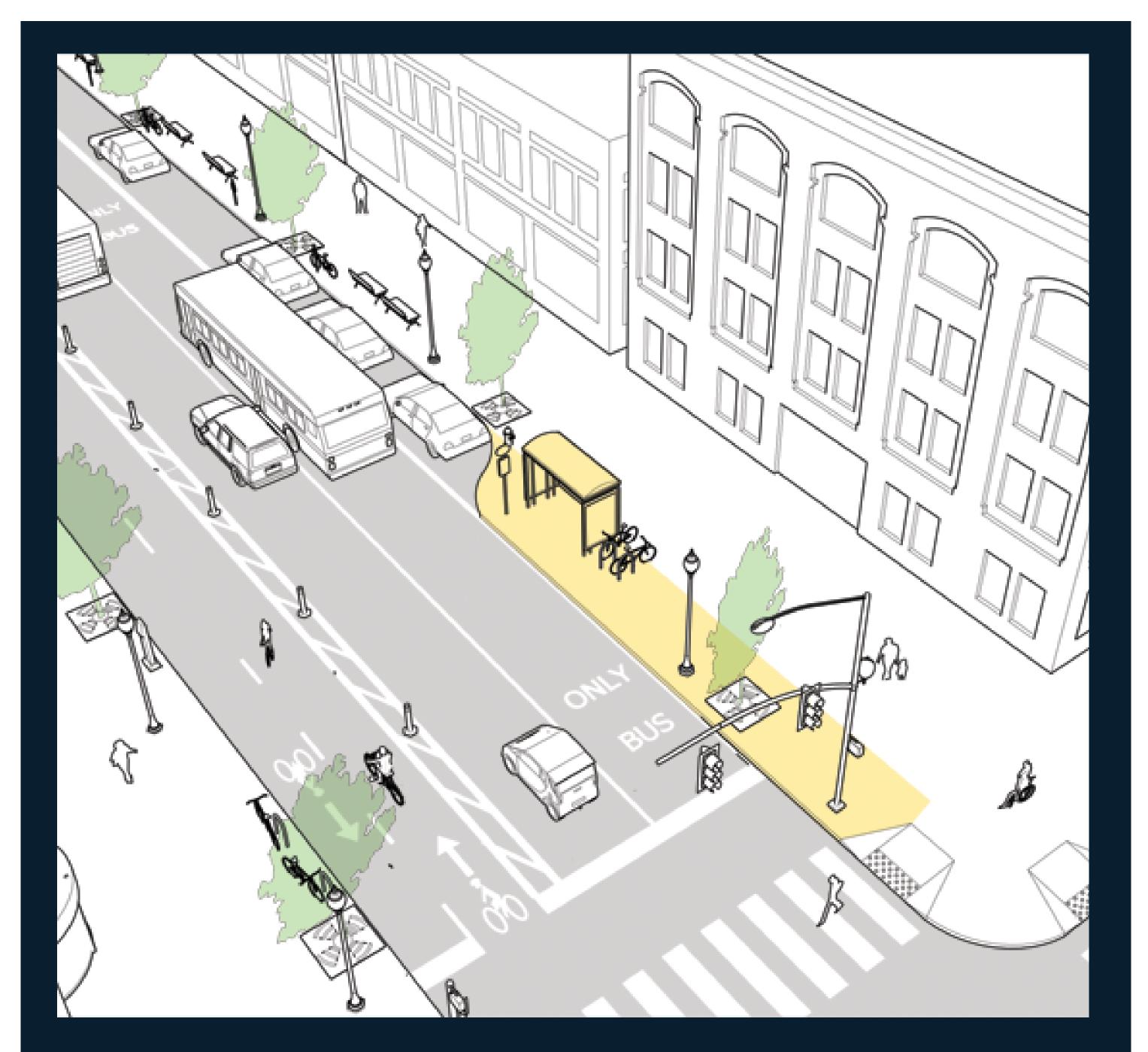
BUS TRIPS FROM MATTAPAN STATION TO NUBIAN SQUARE, WHICH CURRENTLY TAKE 40-55 MINUTES, WILL TAKE JUST

minutes

WARREN STREET CORRIDOR **PROPOSED STOP TYPES + AMENITIES**



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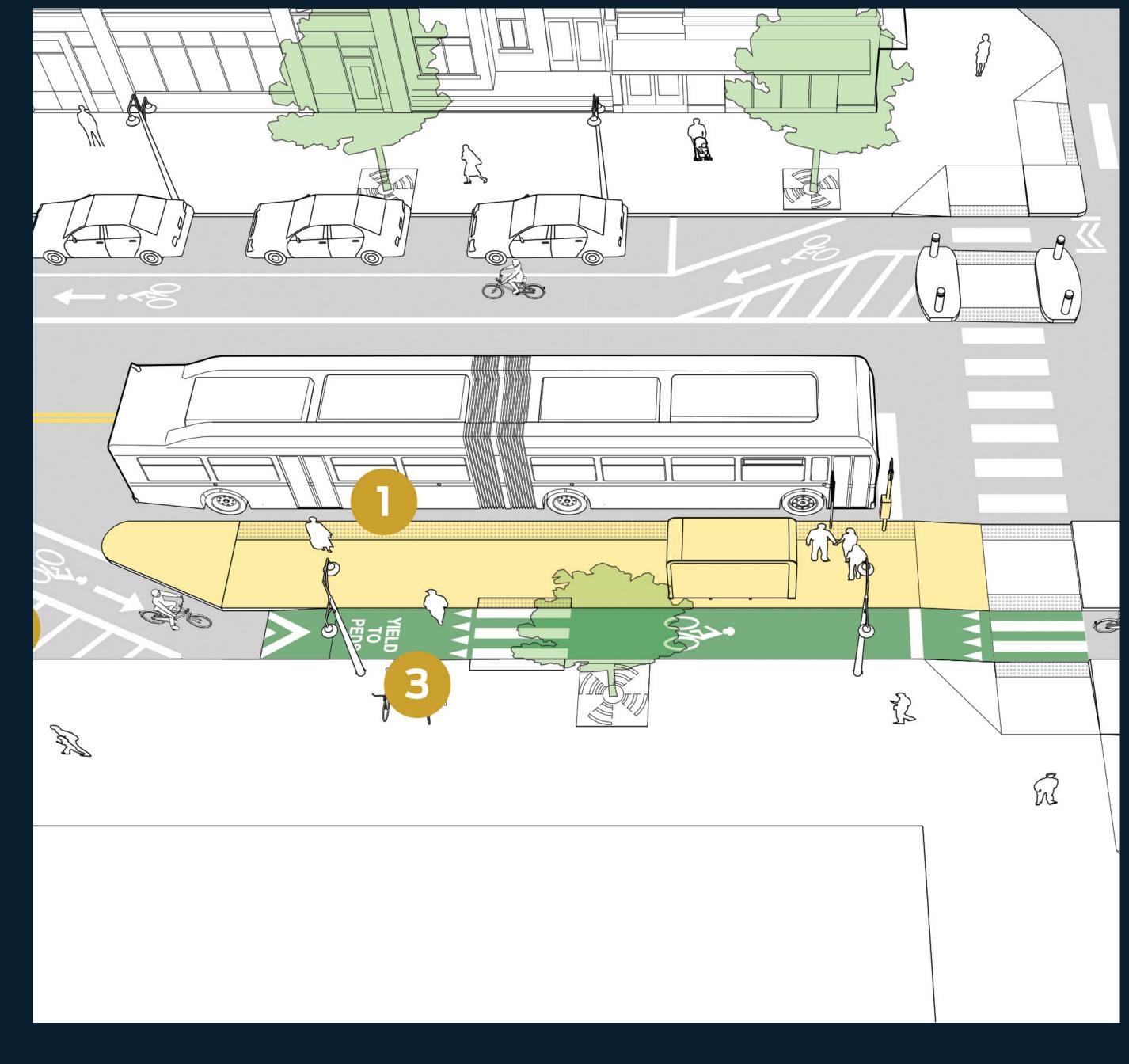
BUMPED OUT BUS STOP

• Allows the bus to pick up and drop off without leaving its travel lane.

Increases public space and pedestrian visibility, improving safety.

Improves boarding experience and accessibility.





Saves 5-20 seconds per stop.

> Example: MBTA Silver Line Washington Street @ Lenox.

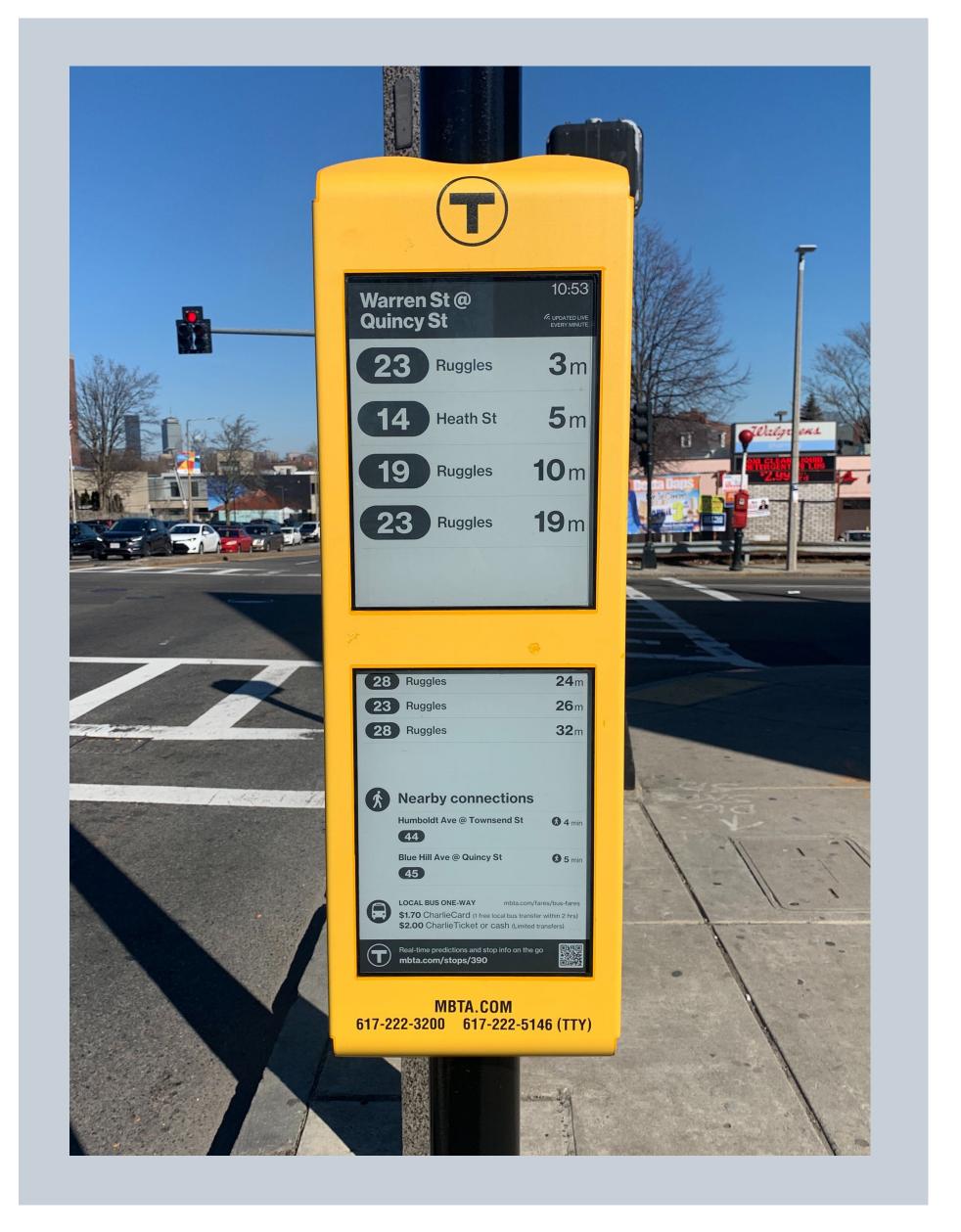
FLOATING BUS STOP

- Allows the bus to pick up and drop off without leaving its travel lane.
- Allows for cyclists to travel, protected in their own lane, around the bus.

- Improves boarding experience and accessibility while minimizing the likelihood of a bus-bike collision.
- Saves 5-20 seconds per stop.

Example: MBTA ROUTE 57 Commonwealth Ave.





ALL STOPS ON WARREN WILL RECIEVE THE FOLLOWING:



Every stop will have countdown clocks showing when the next bus is set to arrive. (See left)

TRASH CANS

We heard from you that existing trash cans are not placed closely enough to shelters to encourage people to use them properly. We are changing that.

DOUBLE CANOPY SHELTER

+ ADDITIONAL BENCHES

With some stops serving over 1,000 people a day, additional shelter and seating is needed to support and protect riders.

LIGHTING

Bus service on Warren begins before dawn many mornings and runs late into the night. We are making sure you won't be waiting in the dark.

WARREN STREET CORRIDOR TIMELINE AND PARTNERS



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PROJECT TIMELINE THUS FAR

• April 2019

Begin data analysis of existing

• July

Corridor walks and bus ride-alongs

October

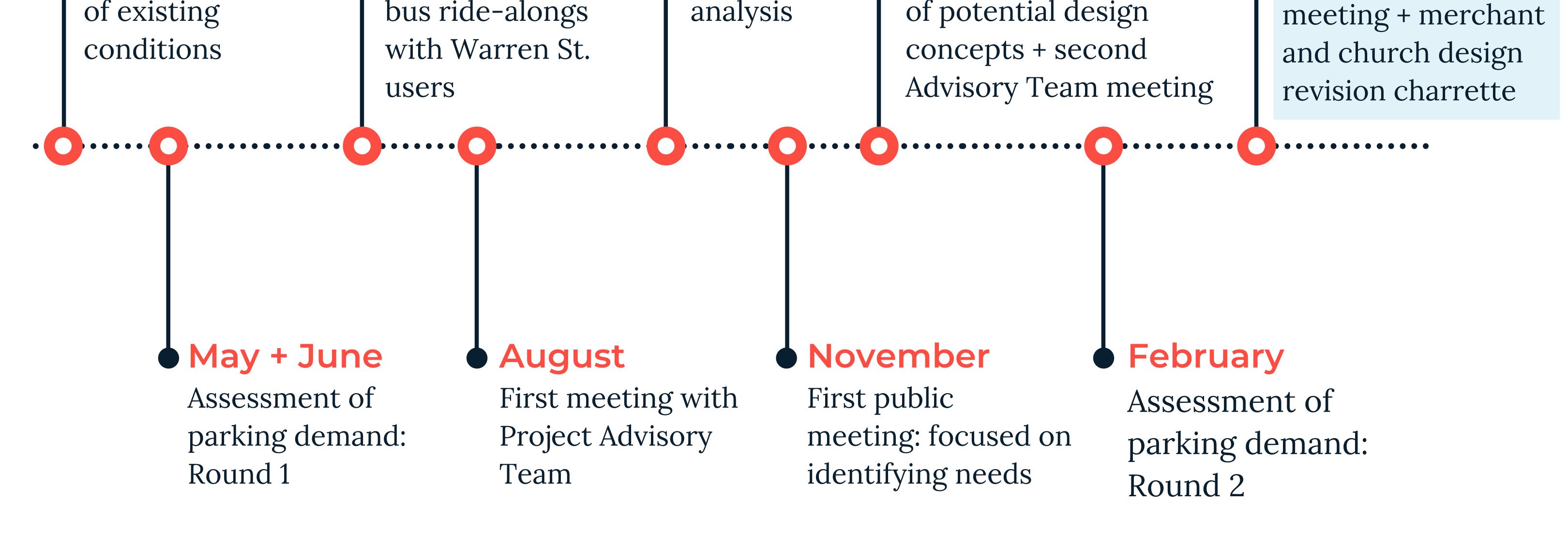
Traffic analysis

December

Creation and modelling of potential design

Postponed due to COVID-19

March 2020 Second public



PROJECT ADVISORY TEAM



