

Madison East-West Bus Rapid Transit (BRT) Planning Study

Downtown Route Options | TPPB, September 20, 2019

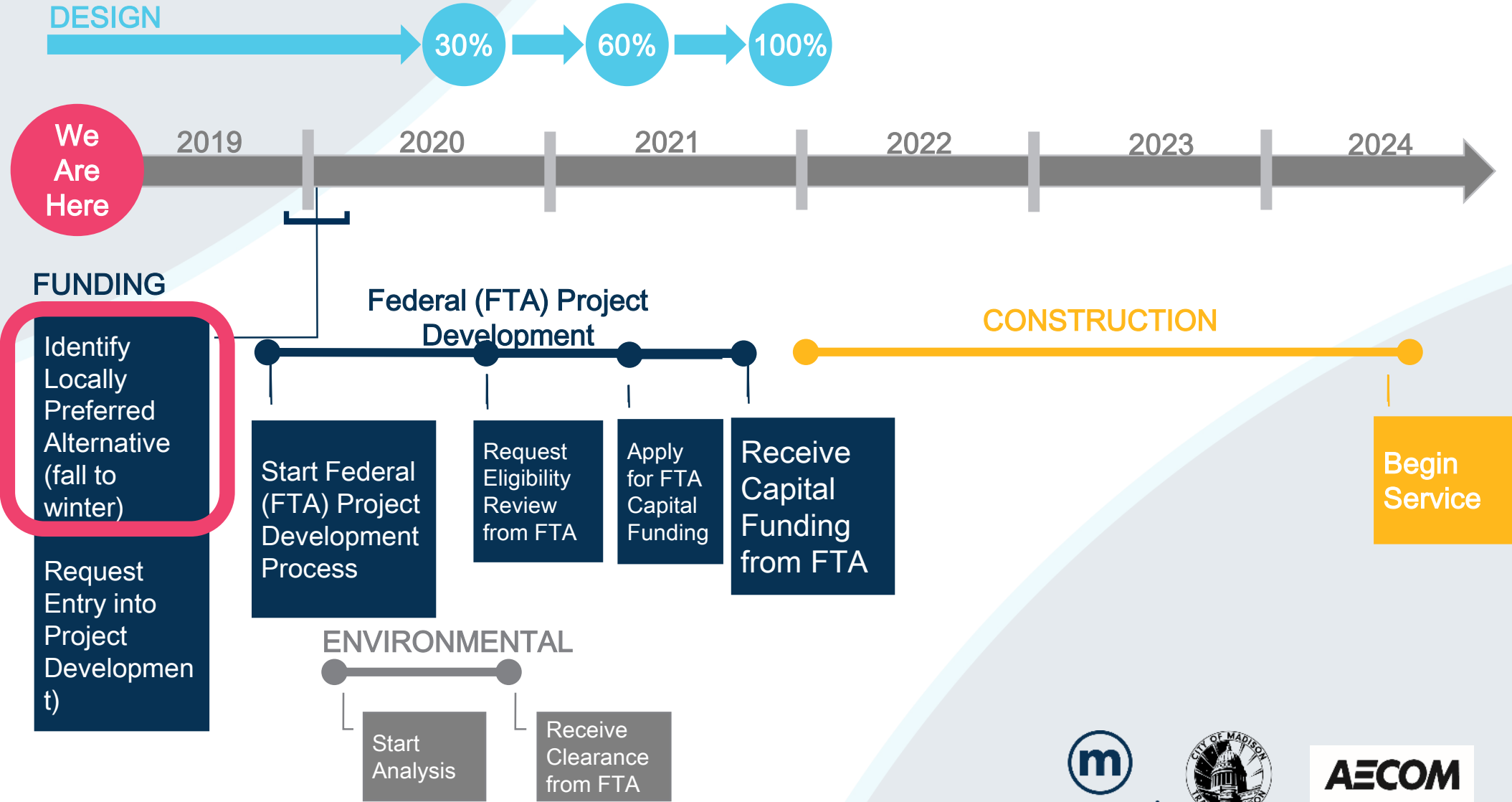
MADISON DEPARTMENT



OF TRANSPORTATION

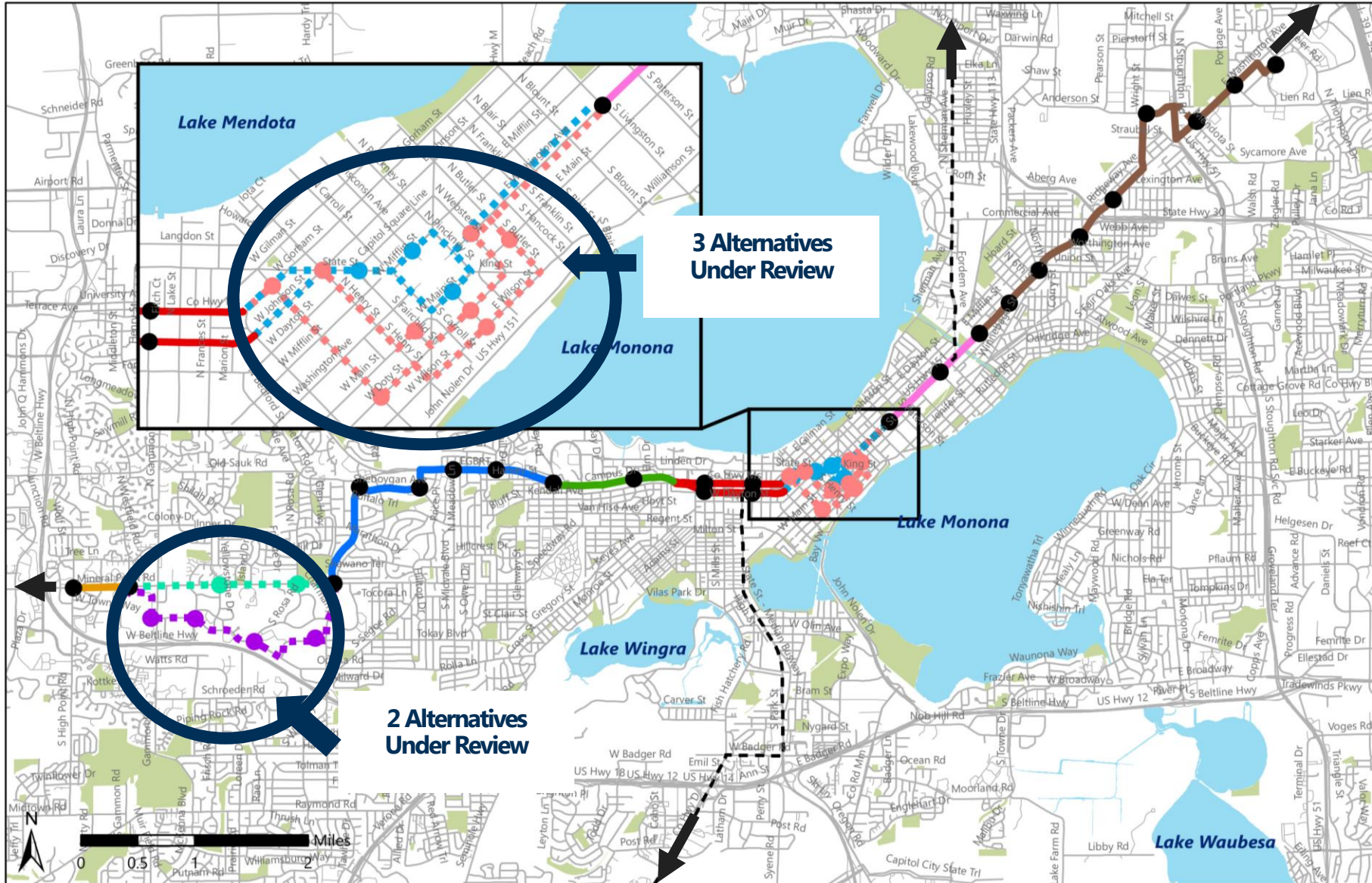
MADISON EAST-WEST BRT PLANNING STUDY

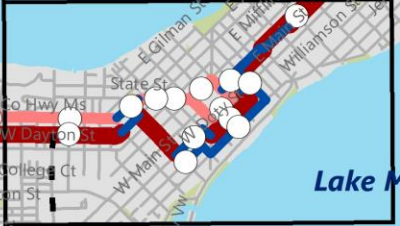
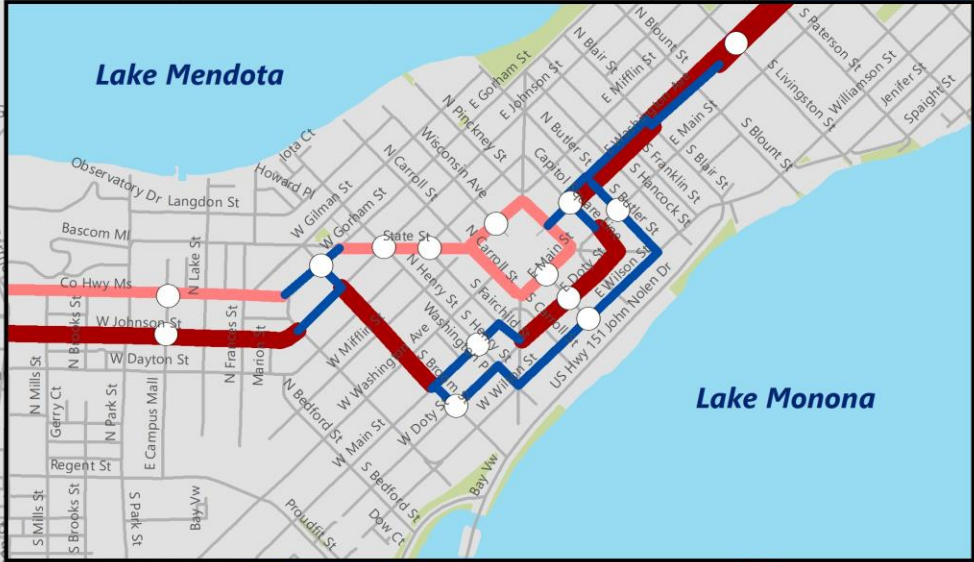
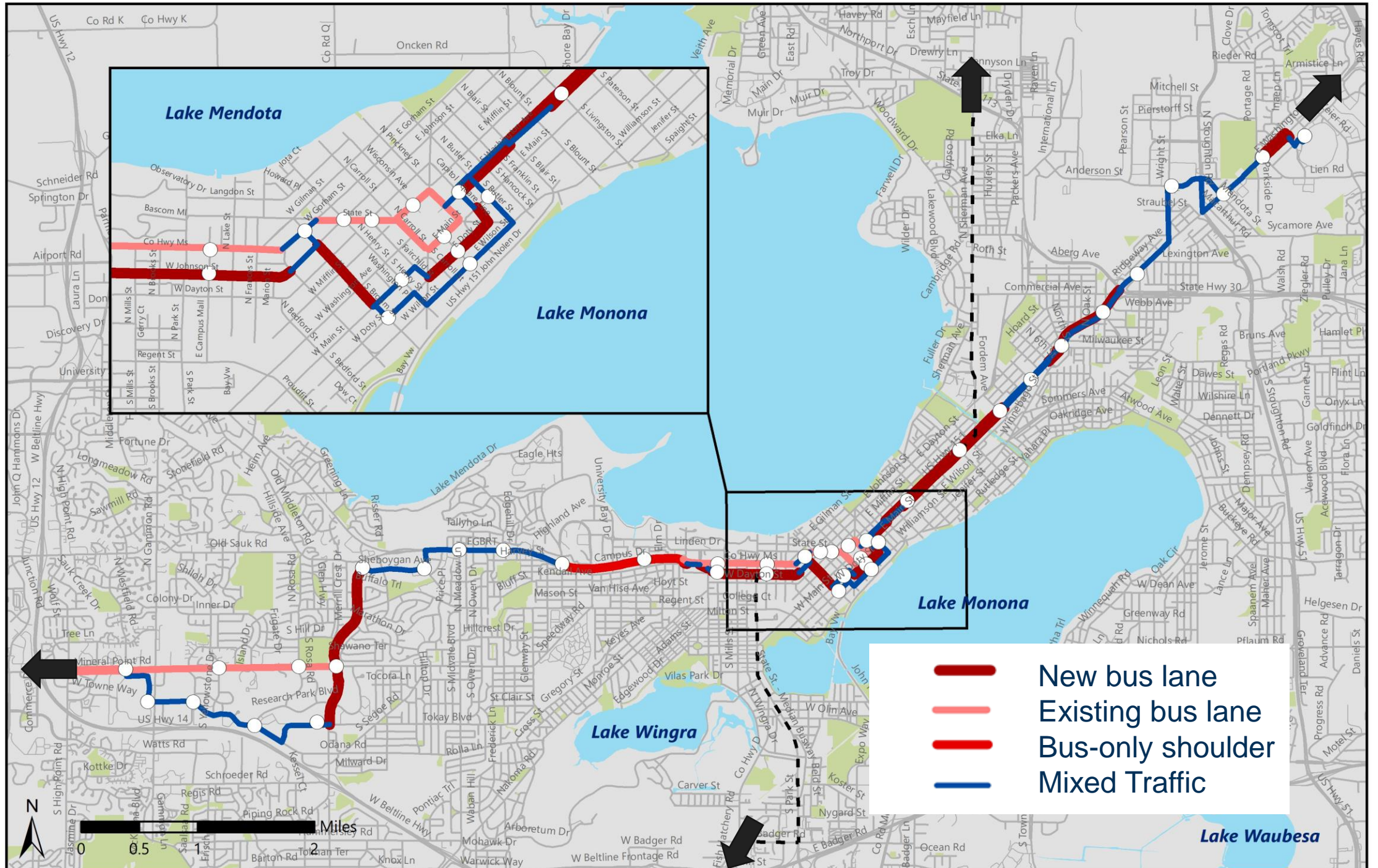
Project Development Process



MADISON EAST-WEST BRT PLANNING STUDY

Working Locally Preferred Alternative Route





- New bus lane
- Existing bus lane
- Bus-only shoulder
- Mixed Traffic



0 0.5 1 2 Miles

Lake Waubesa



Westbound Capitol Square (Mifflin Street)



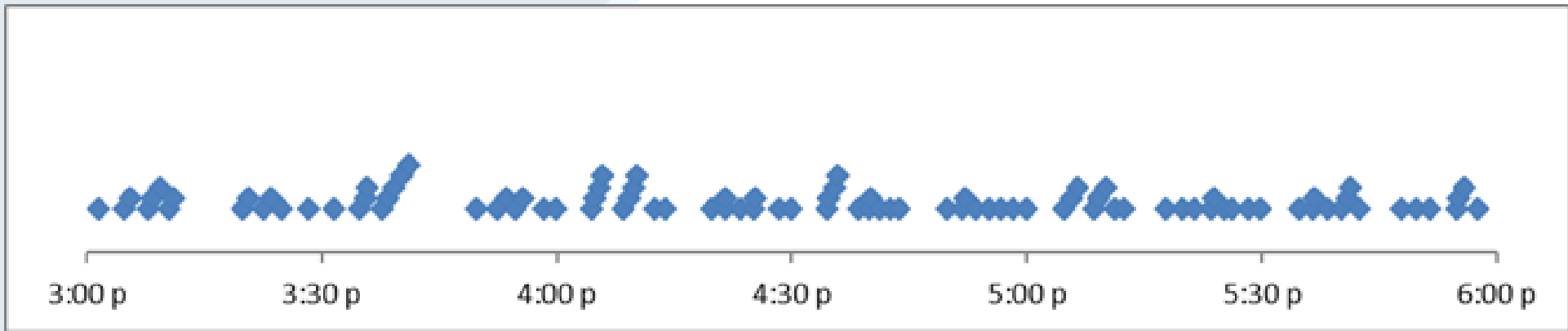
FRESH CHEESE CURDS

FRESH CURD

FRESH CHEESE CURDS

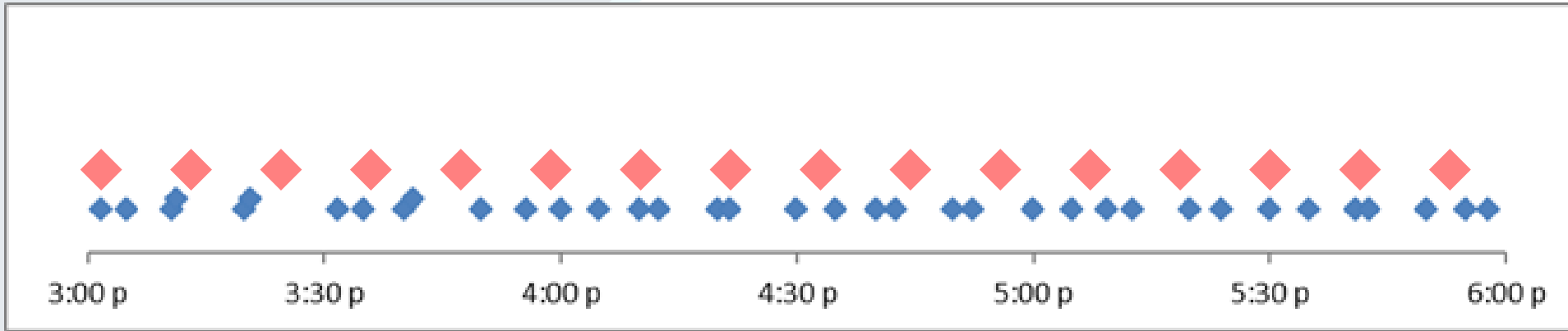
Dane County Farmer's Market

State Street



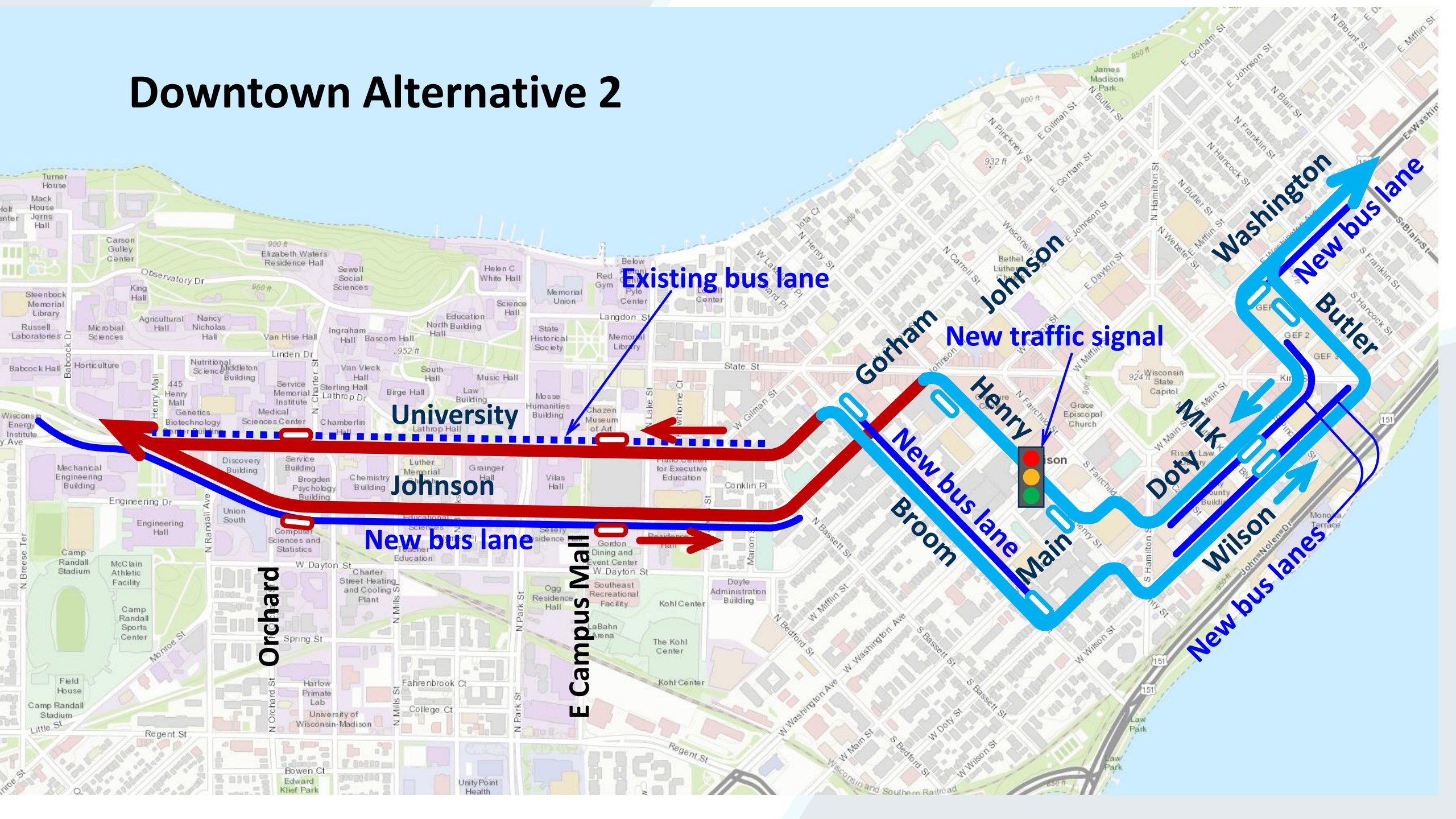
- + Current bus service **westbound PM peak**
- + 98 buses in a 3-hour period
- + Significant bunching and idling at Johnson and Gorham traffic signals

State Street



- + Local routes remain
- + Regional/commuter routes moved to State Street
- + BRT service added
- + 50-60 buses in same 3-hour period, some are electric

Downtown Alternative 2



Existing bus lane

New traffic signal

University

Johnson

New bus lane

Orchard

E Campus Mall

Gorham

Henry

New bus lane

Broom

Main

Doty

Wilson

New bus lanes

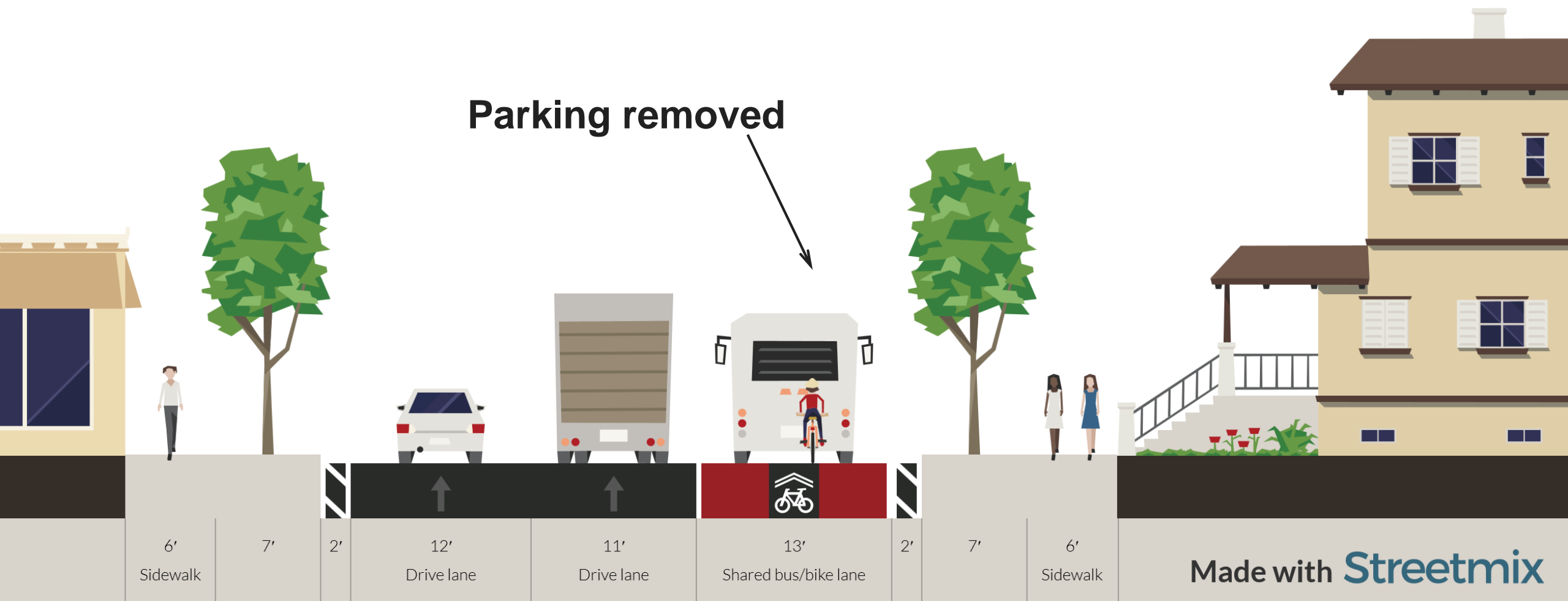
Washington

Butler

New bus lane

Broom Street

Parking removed



Downtown Alternative 3



Existing bus lane

University

Johnson

New bus lane

Orchard

E Campus Mall

New contra-flow southbound bus lane

Gorham

Johnson

Broom

Main

Doty

Wilson

Washington

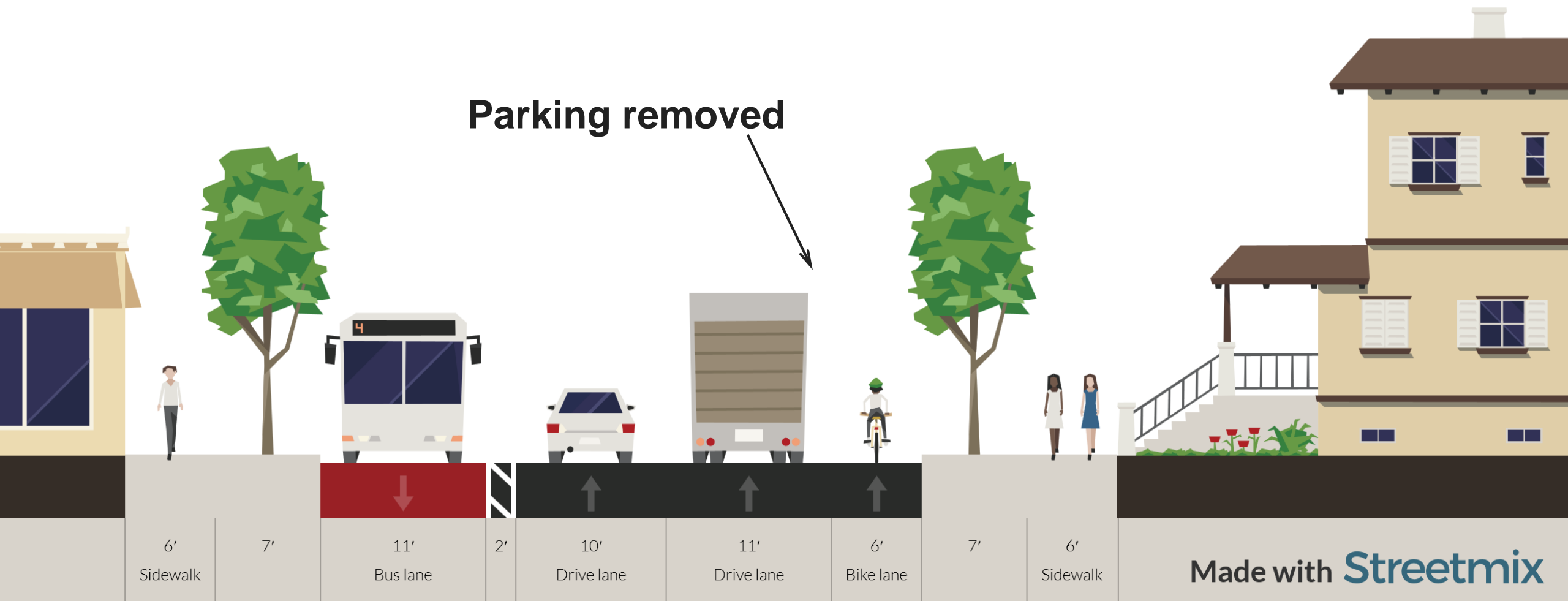
Butler

New bus lanes

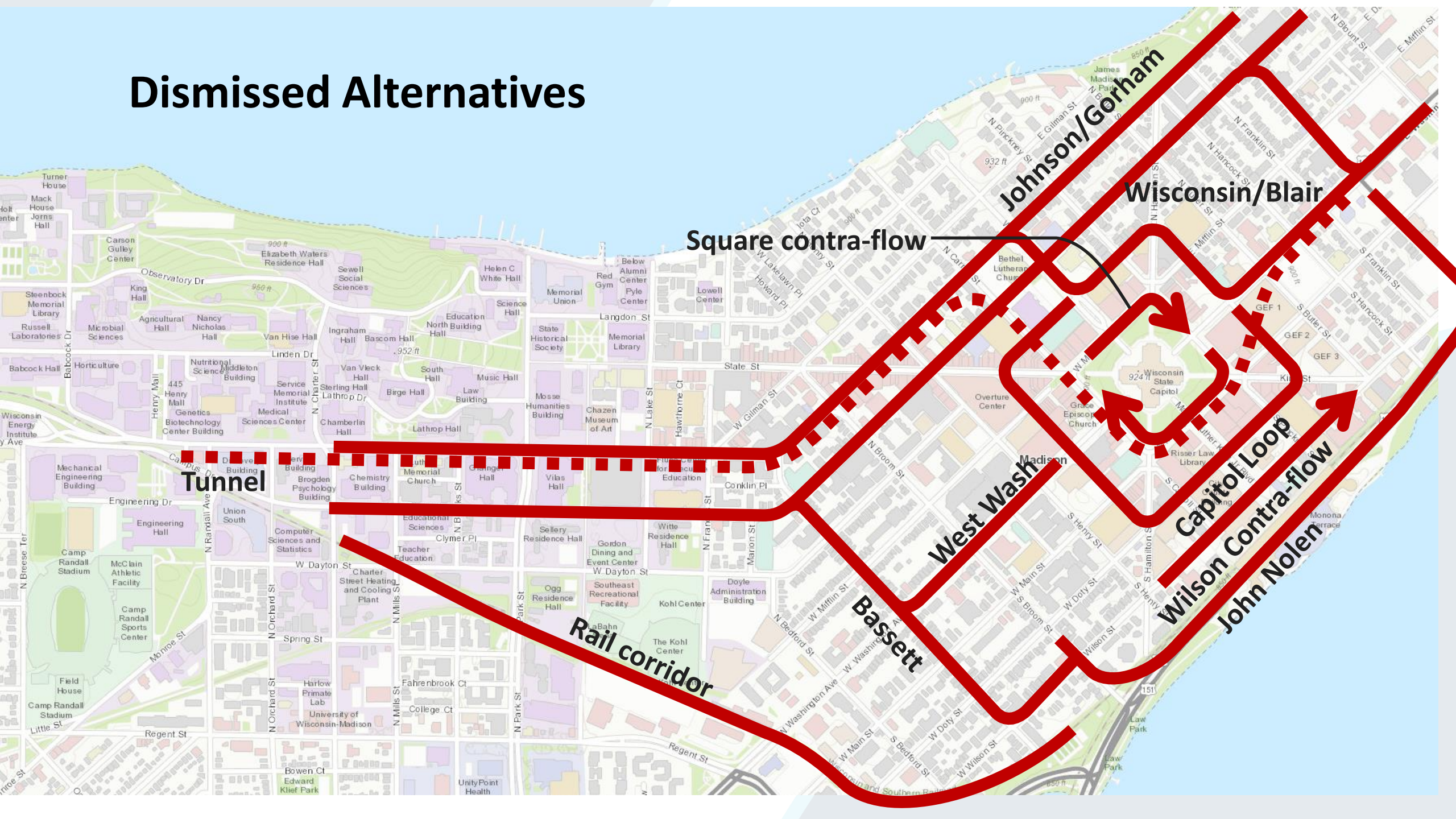
New bus lane

Broom Street

Parking removed



Dismissed Alternatives



Tunnel

Square contra-flow

Johnson/Gorham

Wisconsin/Blair

West Wash

Bassett

Capitol Loop

Wilson Contra-flow

John Nolen

Rail corridor

Alternative 1 – State Street, Capitol Square

- + 1-2 minutes faster
- + Stations are more central and visible
- + 70 detours per year

Eastbound State Street





Dayton St

STOP

↓ ↑

P
PARKING

Southbound Henry Street

Alternative 2 – Broom/Henry, Wilson/Doty

- + Detours are very rare (a few per year)
- + Stations 1-2 blocks from State Street, Capitol Square
- + One additional station in Bassett Neighborhood

Alternative 3 – Broom, Wilson/Doty

- + Detours are very rare (a few per year)
- + Stations 1-2 blocks from State Street, Capitol Square
- + Faster, more reliable service on Broom Street Contra-flow lane compared to Henry Street
- + Eastbound and westbound stations closer together and easier to find

Bike Impacts Downtown

+ Alternative 1 – State Street / Capitol Square

- Little to no changes
- May affect future West Washington Cross Section

+ Alternative 2 – Broom/Henry, Wilson/Doty

- Shared bus/bike/right turn lane on Broom

+ Alternative 3 – Broom, Wilson/Doty

- Little to no changes

+ All alternatives – East Washington Avenue

- New bus, bike, and right turn lane eastbound Square to Blair
- Parking and bike lane converted to bus, bike right turn Blount to First

Street typology



Lake Monona

Parking Impacts

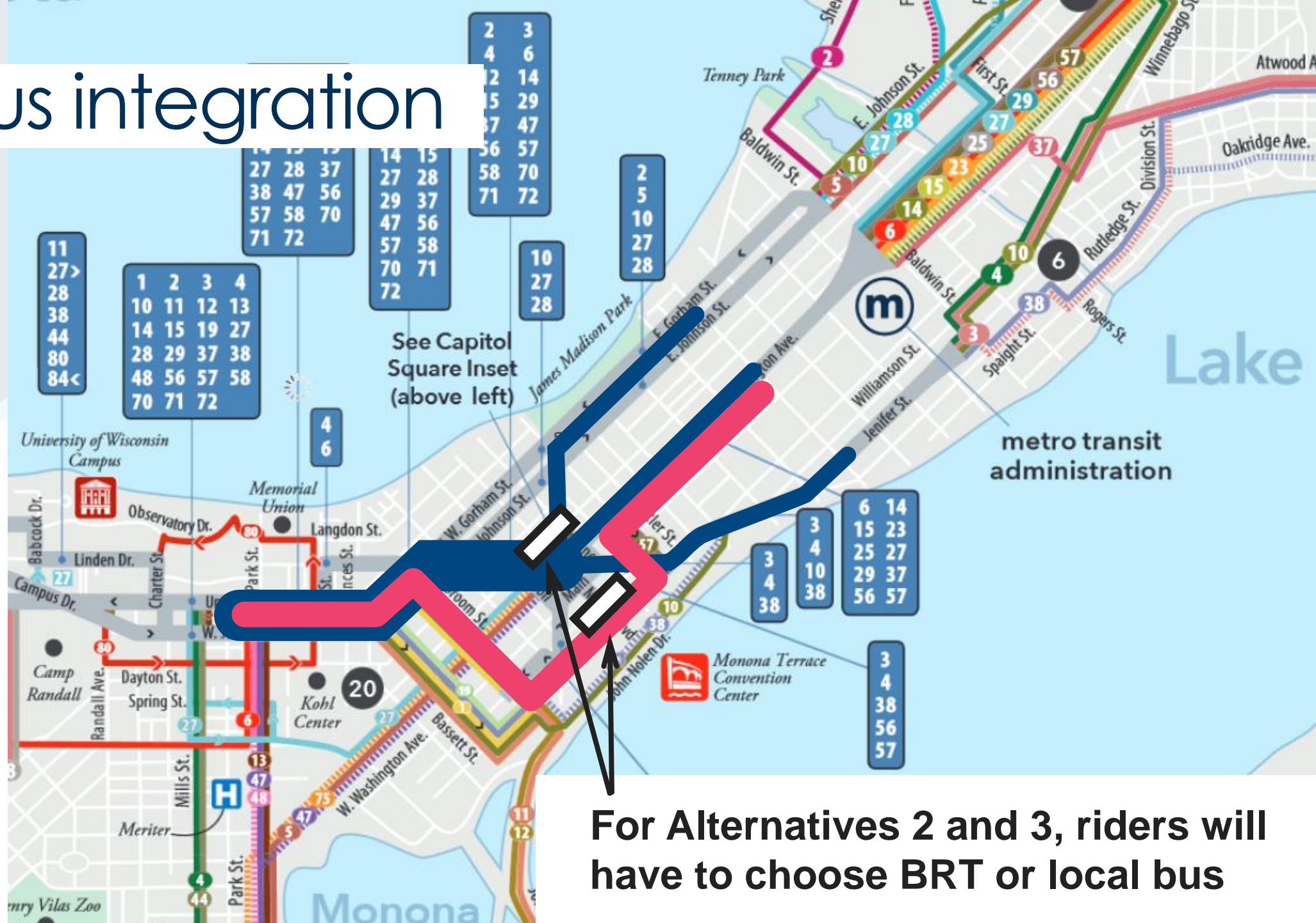
- + Alternative 1 – State Street / Capitol Square (4)
 - Little to no changes
 - 4 parking spots removed on 100 East Washington
- + Alternative 2 – Broom/Henry, Wilson/Doty (110)
 - 32 lost spaces on Broom and 3 on South Henry Street
 - 39 lost spaces on Doty Street
 - 36 lost spaces on Wilson Street
- + Alternative 3 – Broom, Wilson/Doty (107)
 - 32 lost spaces on Broom
 - 39 lost spaces on Doty Street
 - 36 lost spaces on Wilson Street

Local bus integration



For Alternative 1, riders can go to one station and take the first bus

Local bus integration



For Alternatives 2 and 3, riders will have to choose BRT or local bus

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