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

Downtown Route Options – February 3, 2020

MADISON DEPARTMENT

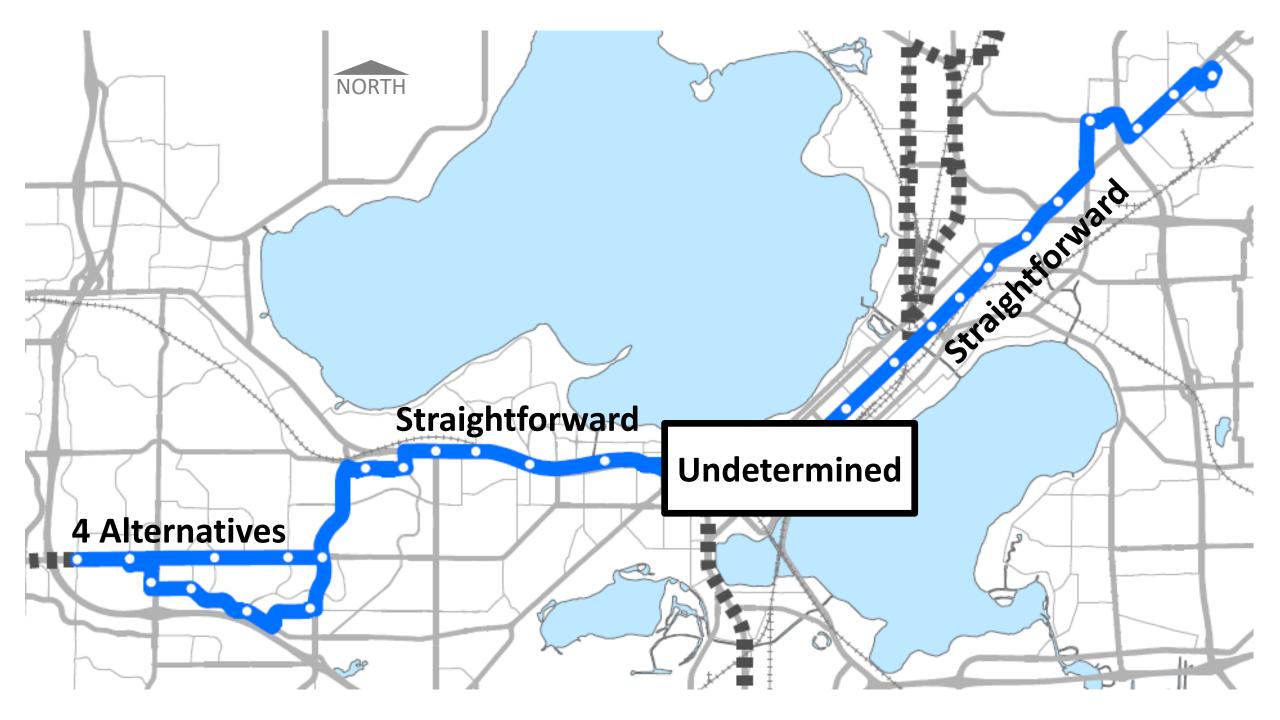


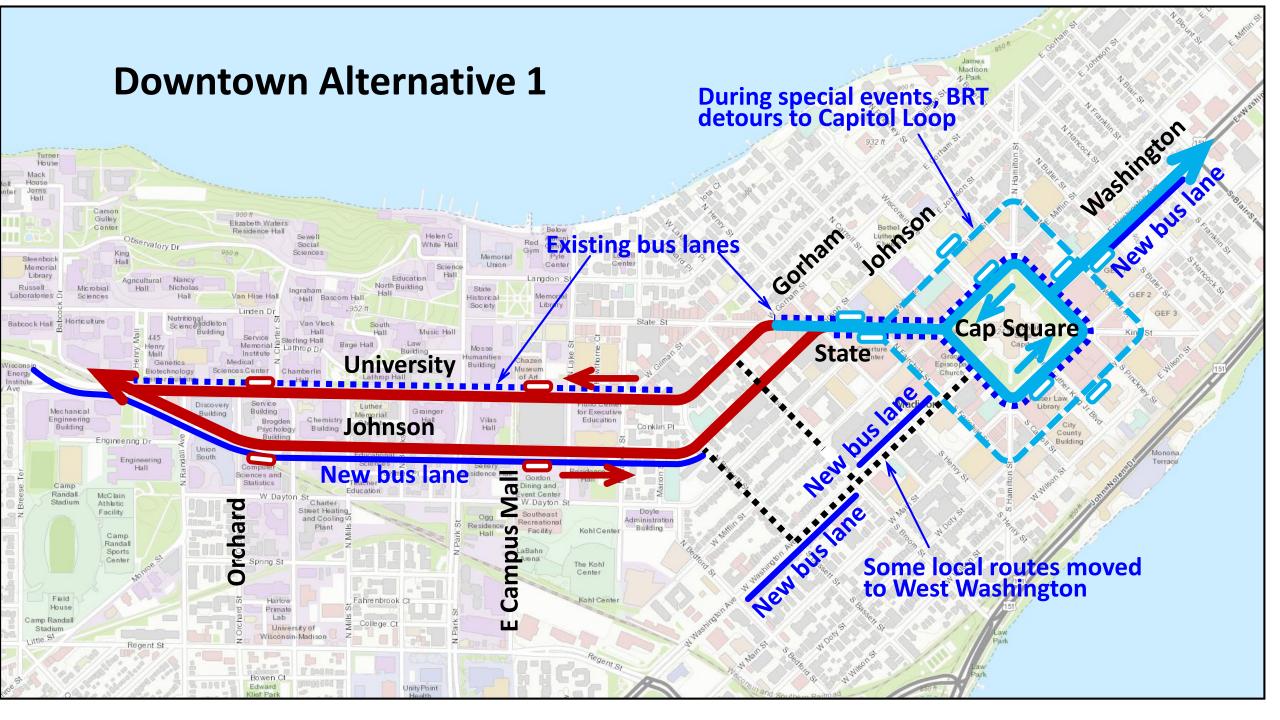
# **Downtown Routing Goals and Objectives**

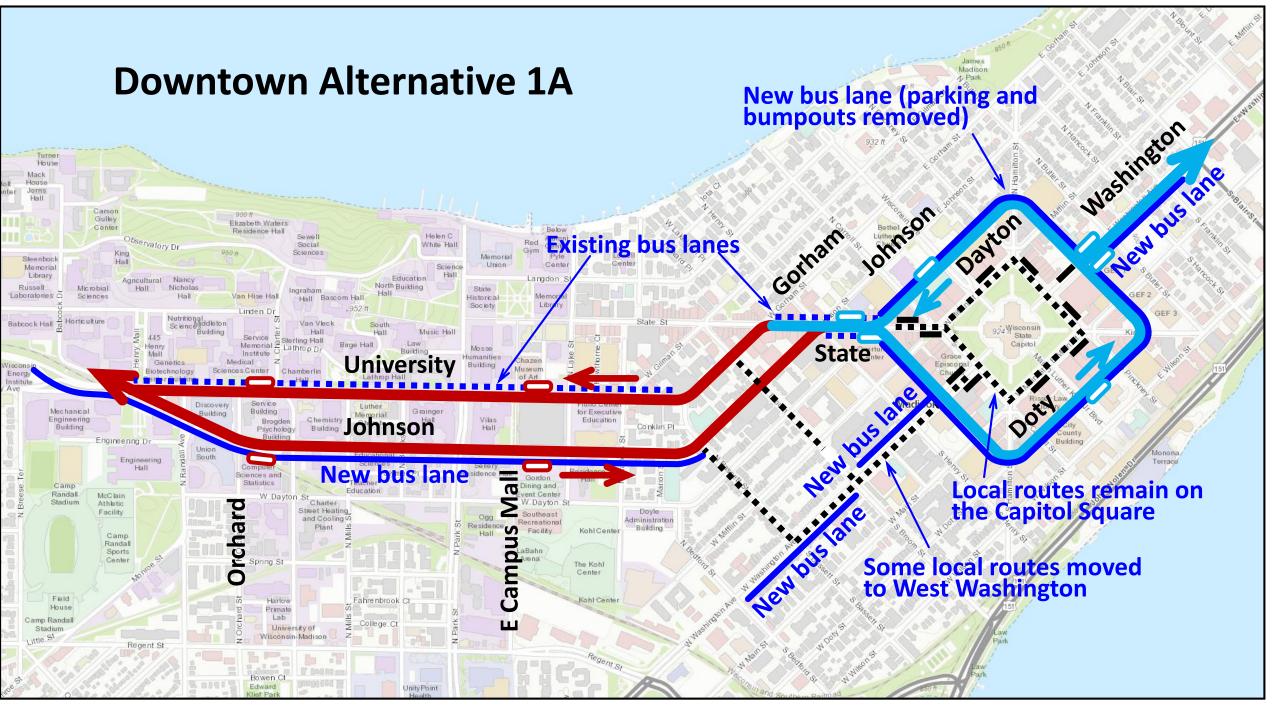
- Serve important regional destinations (State Street, Capitol Square, Monona Terrace, government offices)
- Provide dedicated running way (bus lanes)
- Provide good BRT station locations. These locations:
- Minimize and/or accommodate detours.
- Provide convenient transfers from BRT to local Metro routes.

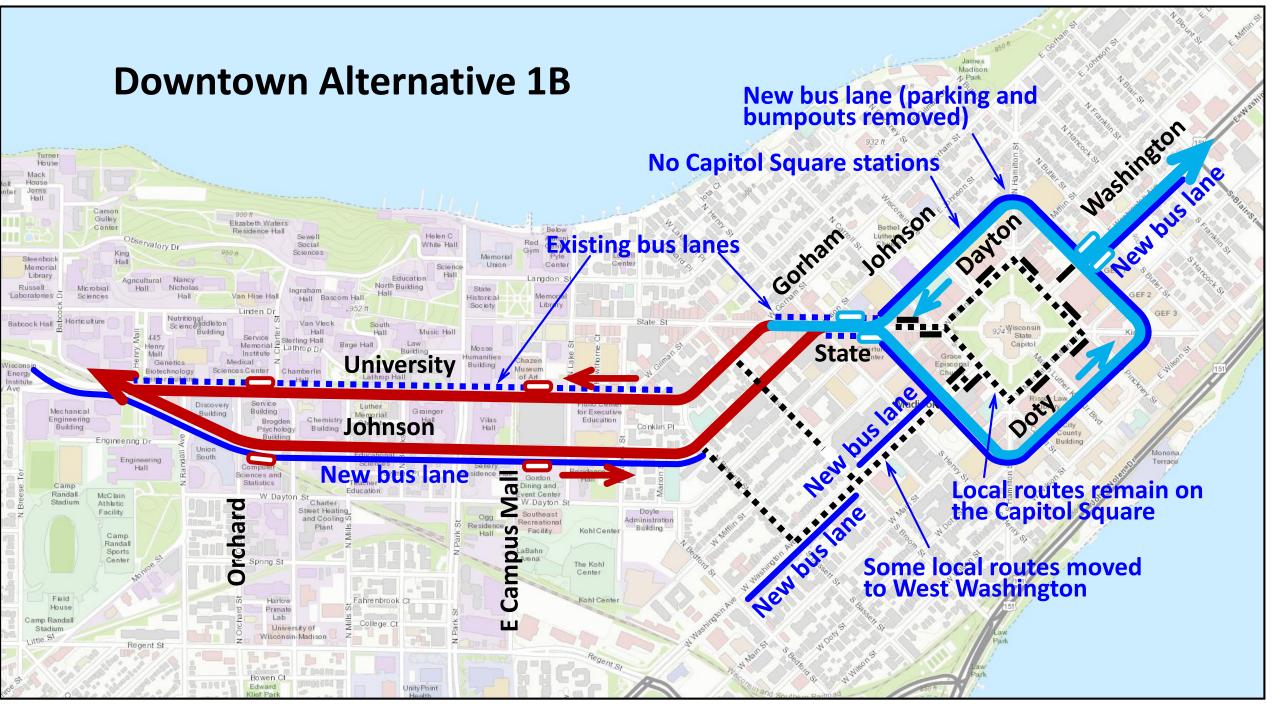
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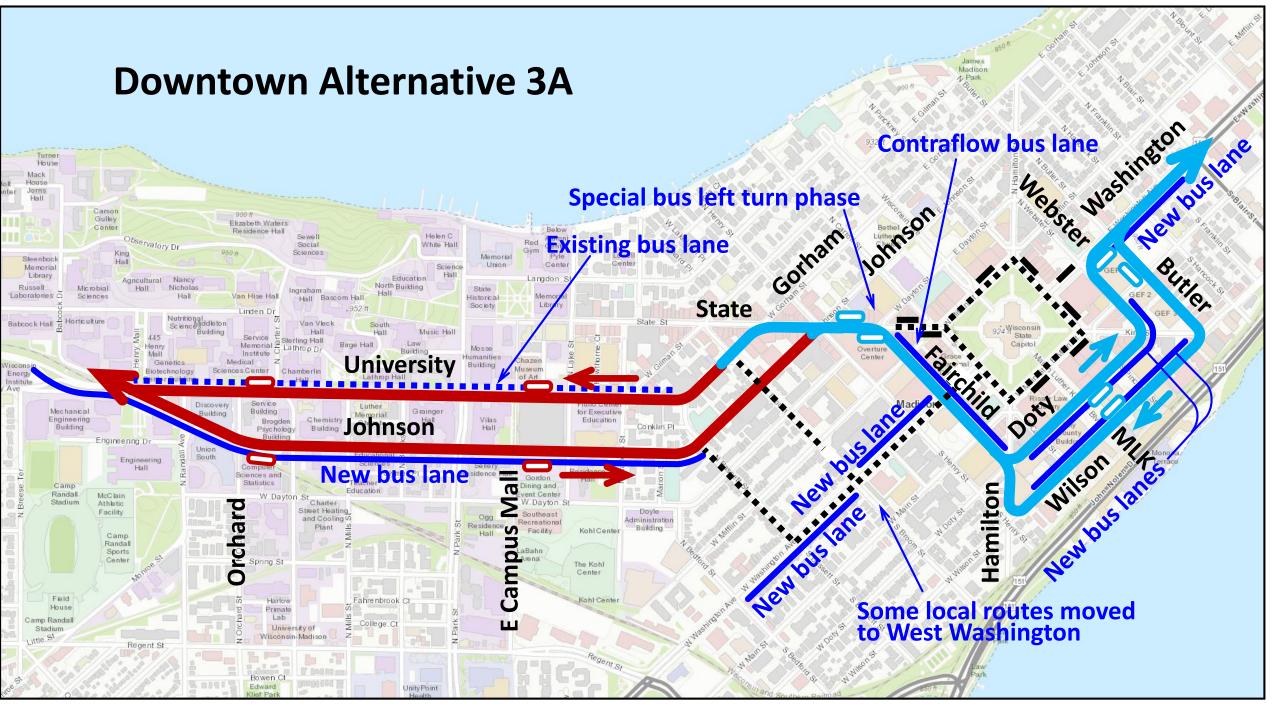
- Minimize BRT travel times
- Minimize traffic impacts
- Accommodate local bus integration
- Minimize impacts to on-street parking and parking revenue lost
- Accommodate and address bike traffic











# **Dismissed Alternatives**



• Alt 2 – Broom/Henry

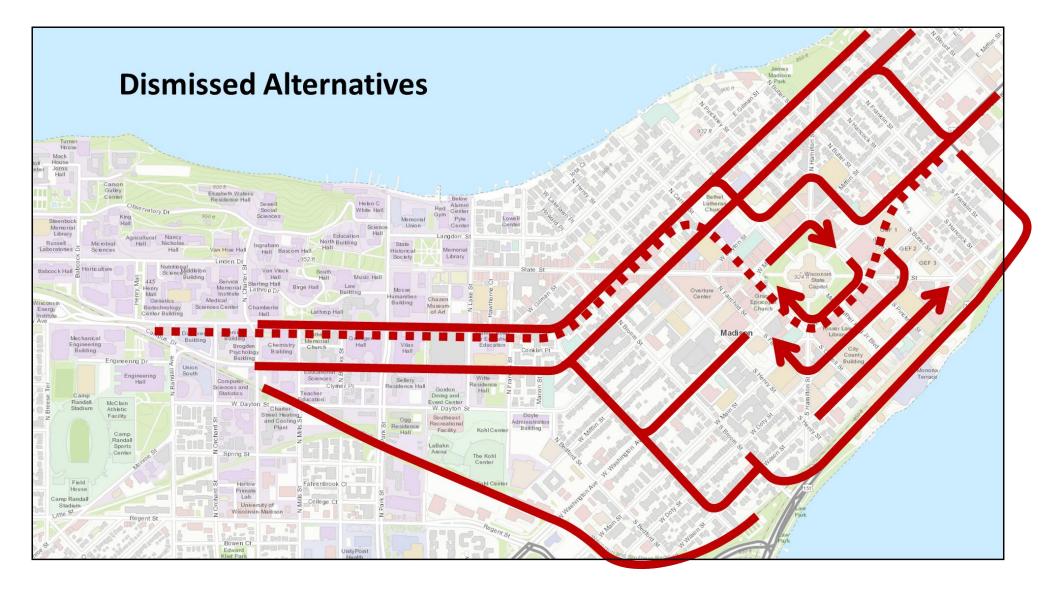
Unreliable during Overture Center Events



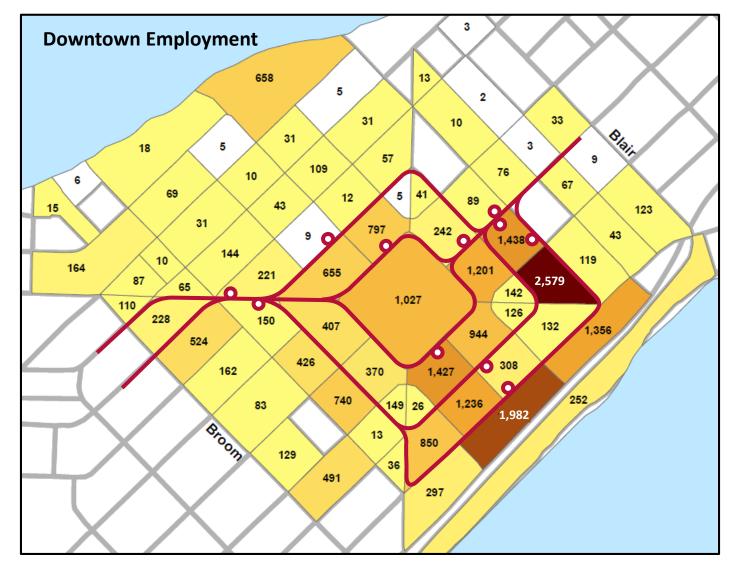
• Alt 3 – Two-way Broom

Insufficient access to State Street

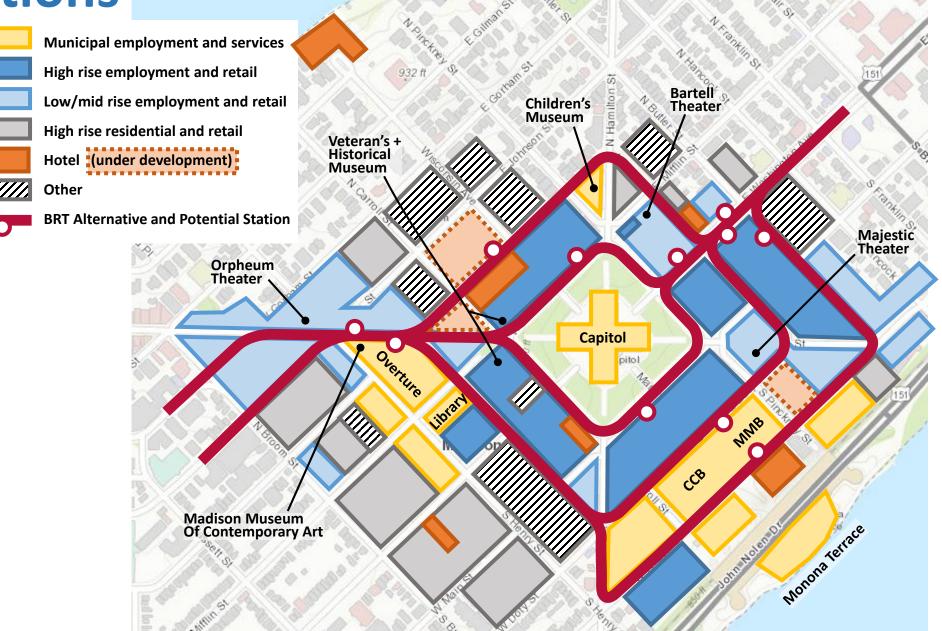
### **Dismissed Alternatives**



# **Employment**



### Destinations



Madison 1. Park

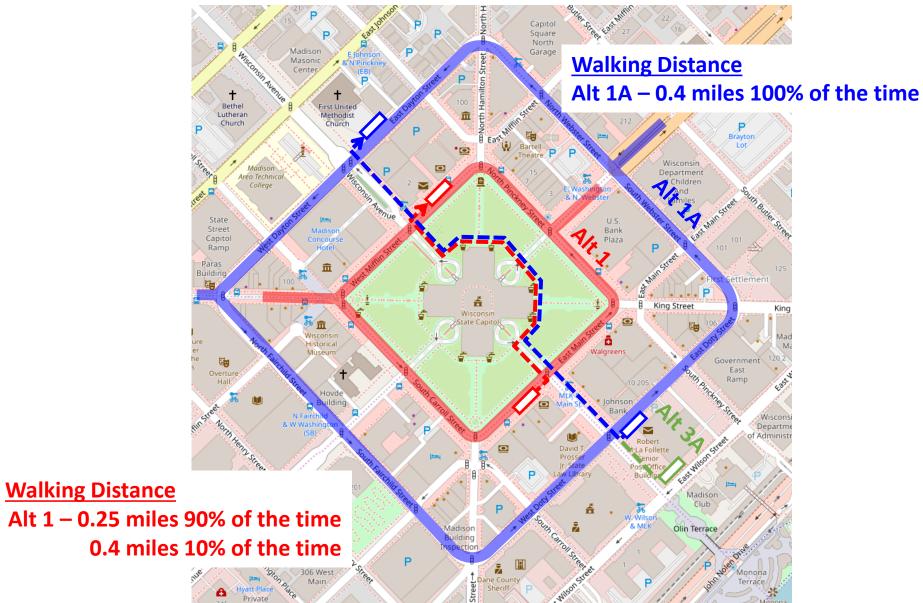
# **Dedicated Runningway**

#### Alternative

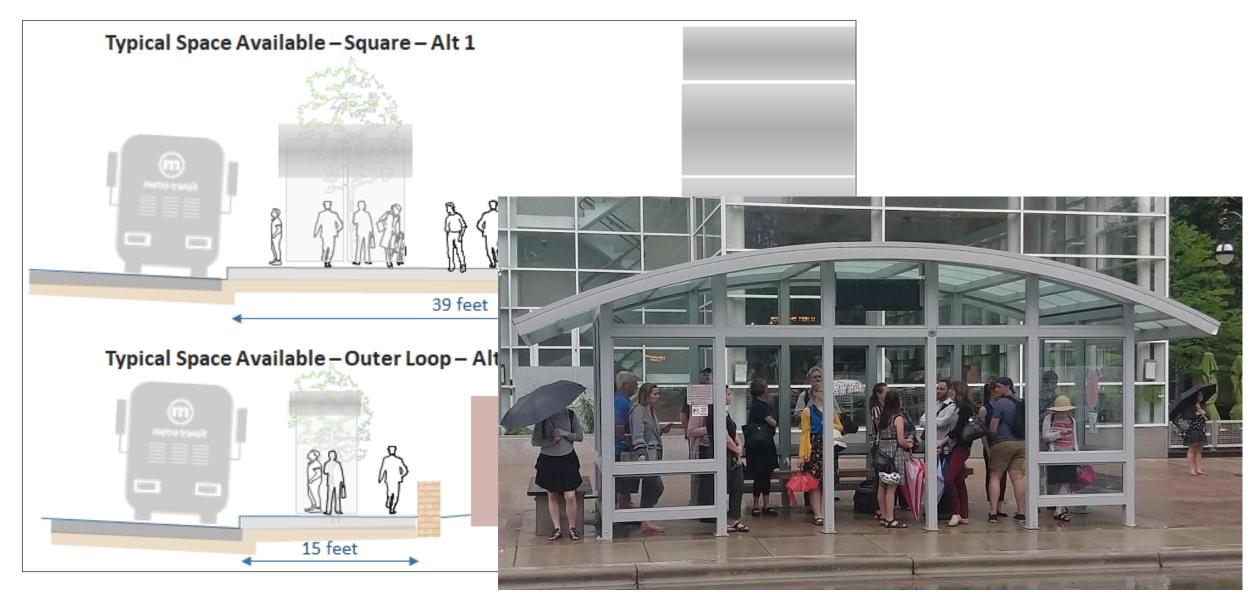
	1	<b>1A</b>	<b>1</b> B	<b>3A</b>
Percent Bus Lanes	70	76	76	59
Miles of Bus Lanes	1.3	1.6	1.6	1.6

Between Broom Street and Blair Street

### **Station Pairs and Transfers**



#### **Station Areas**





	1	1A, 1B	<b>3A</b>
Total Parking Spaces Removed	4	85	68-104 *
Annual Revenue Lost **	\$8 K	\$170 K	\$136-208 K

\* Depending on outcome of Wilson Street Study

\*\* All spaces are metered



Alt 3A

#### Alt 1A, B,

C Fail

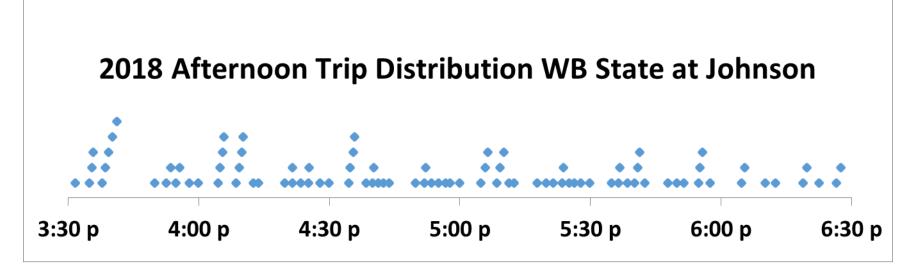
© Google

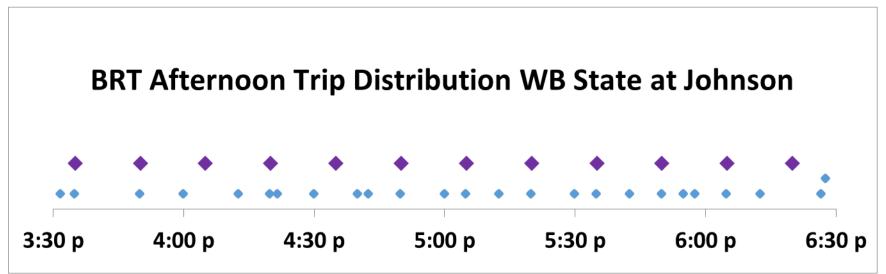
### **Pedestrians**

- No significant changes to street infrastructure
- State Street All alternatives reduce the daily total and greatly reduce the PM peak volumes
- Capitol Square Alternative 1 replaces some local buses with electric BRT buses, reducing waiting and idling



#### **State Street**

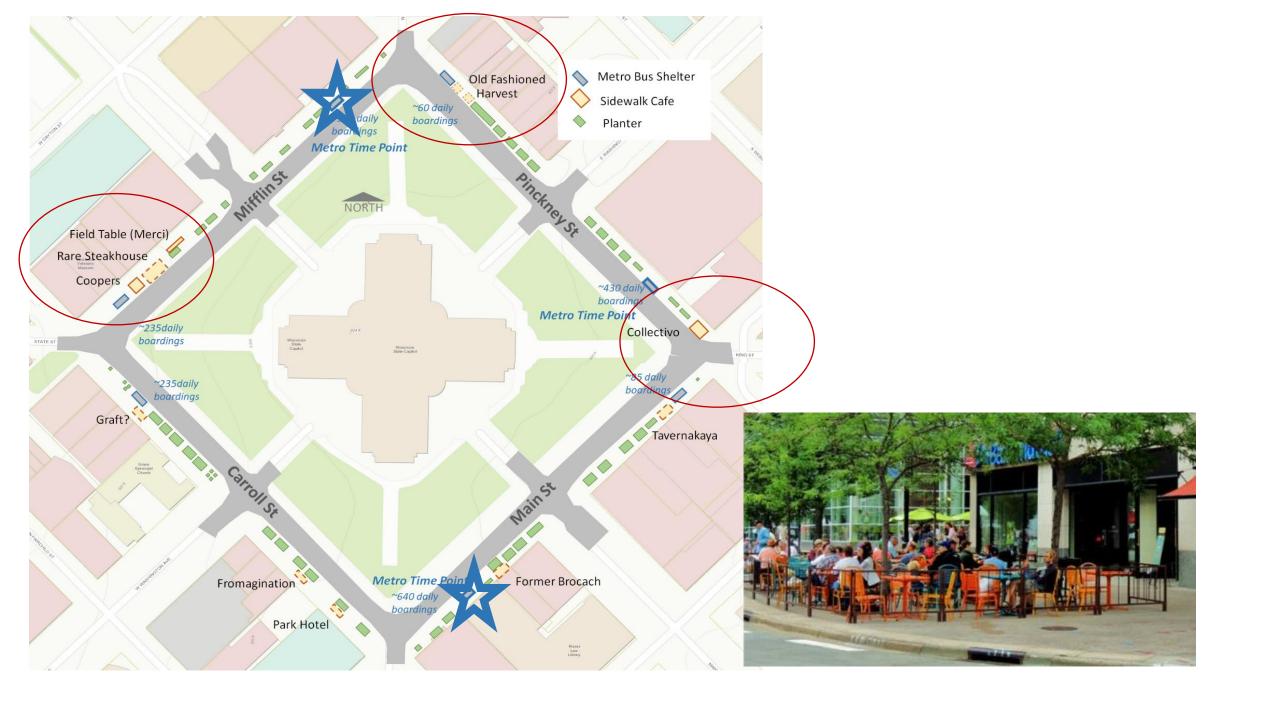




### **Business Concerns**

- Concerns about buses:
  - Noise and emissions
  - Bus shelters take up space
  - More events could be held if buses didn't have to be detoured

- Other concerns:
  - Panhandling
  - Disruptive and illegal behavior



# Equity

- 2015 On-board survey indicates low-income people and people of color transfer at higher rates than the general population
- One in four boardings on the square is a transfer.
- Transfers are how users access different parts of the system, and are particularly important for passengers traveling <u>through</u>. (ex Owl Creek)



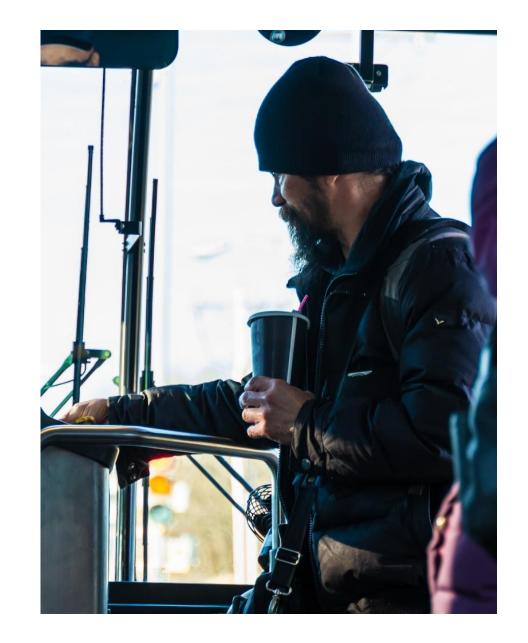




# Equity

City staff interviewed bus riders on the Capitol Square during the day:

- 55% indicated that walking one block to transfer would be a problem
  - Those with mobility problems expressed greatest concern
- 78% indicated that eliminating stops on the square would be a problem
- 25% indicated that detours were a problem for them



# **Staff Recommendation: Alternative 1**

- Most direct access to the city center
- Easiest to use EB and WB stations are within a block or two
- Generous space for stations
- Does not reduce parking revenue
- Reduces the number of buses on State Street during PM peak
- Allows most convenient transfers to and from local buses (Mobility considerations)

# **Staff Recommendation: Alternative 1**

- Can minimize impacts (improve) urban environment
  - Some local bus routes will be removed from the Capitol Square
  - Diesel buses will be replaced by electric buses
  - BRT infrastructure can be positioned to maintain sidewalk and event space
  - Some bus stops on the Capitol Square may be closed or relocated
- BRT will be detoured for special events, but improved with:
  - Real-time signs with more up-to-date information
  - Benches and shelters on the Capitol Loop
- Metro Transit Network Plan 2020

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