

# **East-West Bus Rapid Transit**

Common Council Executive Committee July 13, 2021





### Previous Rail/ High Capacity Transit Studies

- 1980-81 Dane County Transit Technology Corridor Study (DCRPC)
- + 1985-86 Dane County Transit Priority Corridor Study (DCRPC)
- + 1990-92 Light Rail Transit Corridor Study (C. Madison)
- + 1996 Study to Evaluate Commuter Rail Implementation (Dane Co)
- + 1998 Dane County Commuter Rail Feasibility Study (Dane Co)
- + 1999-2003 Transport 2020 Commuter Rail Alternatives Analysis (City/C FTA told us to turn back
- + 2005-2008 Transport 2020 Commuter Rail Preliminary Engineering/EIS, We wouldn't qualify
- 2011-13 Bus Rapid Transit Preliminary Feasibility Study (MATPB)
- + 2018-19 Bus Rapid Transit East-West Planning Study (C. Madison)



### FEATURES WITHIN A 10 MINUTE WALK OF EAST-WEST BRT

120,000 jobs

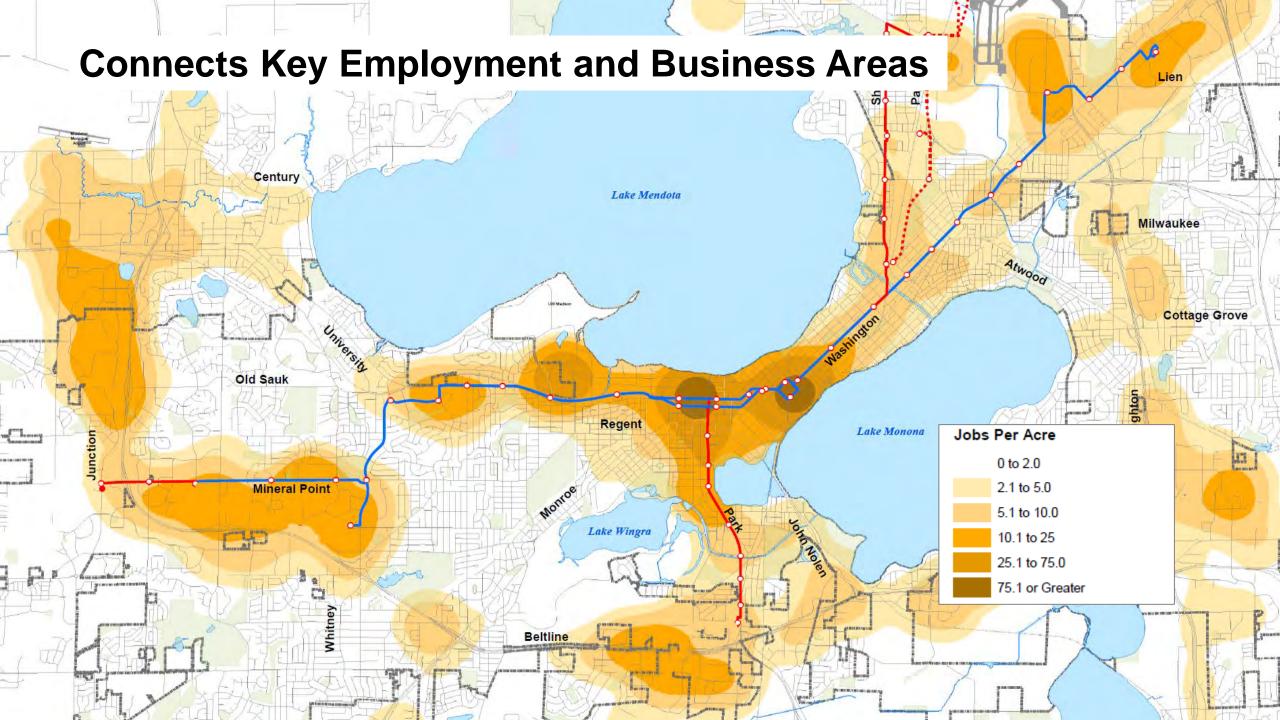


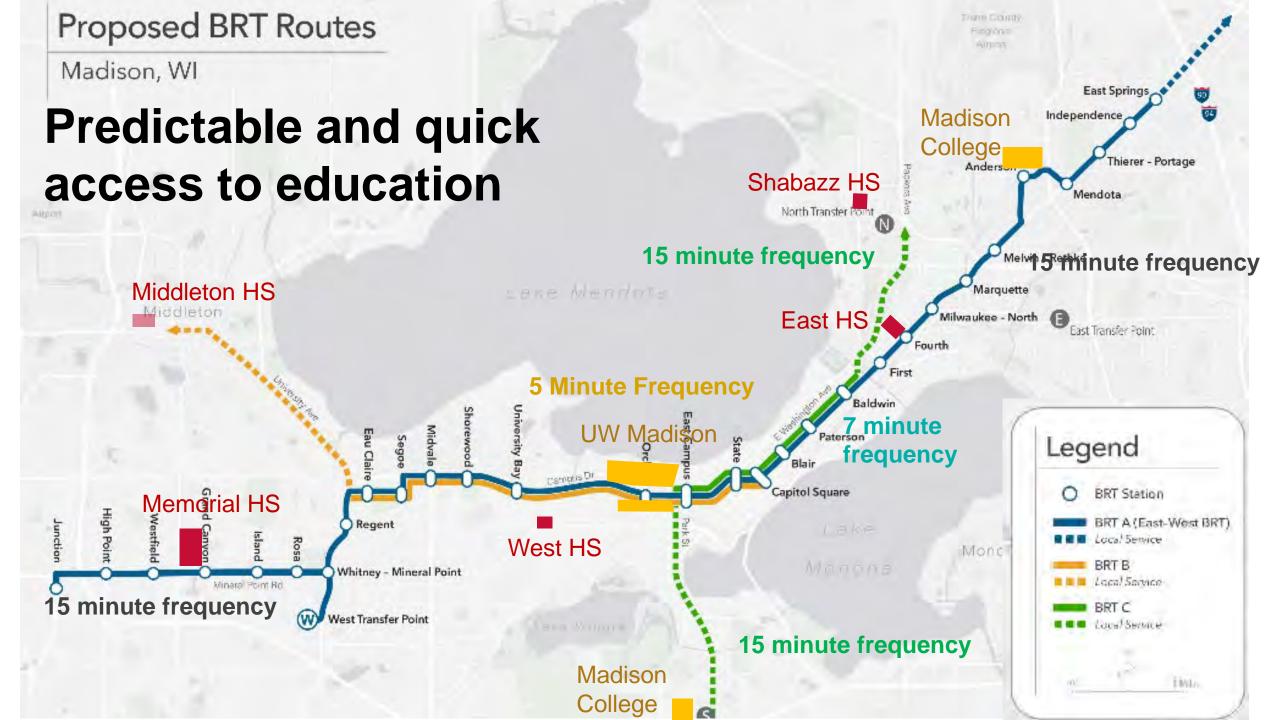


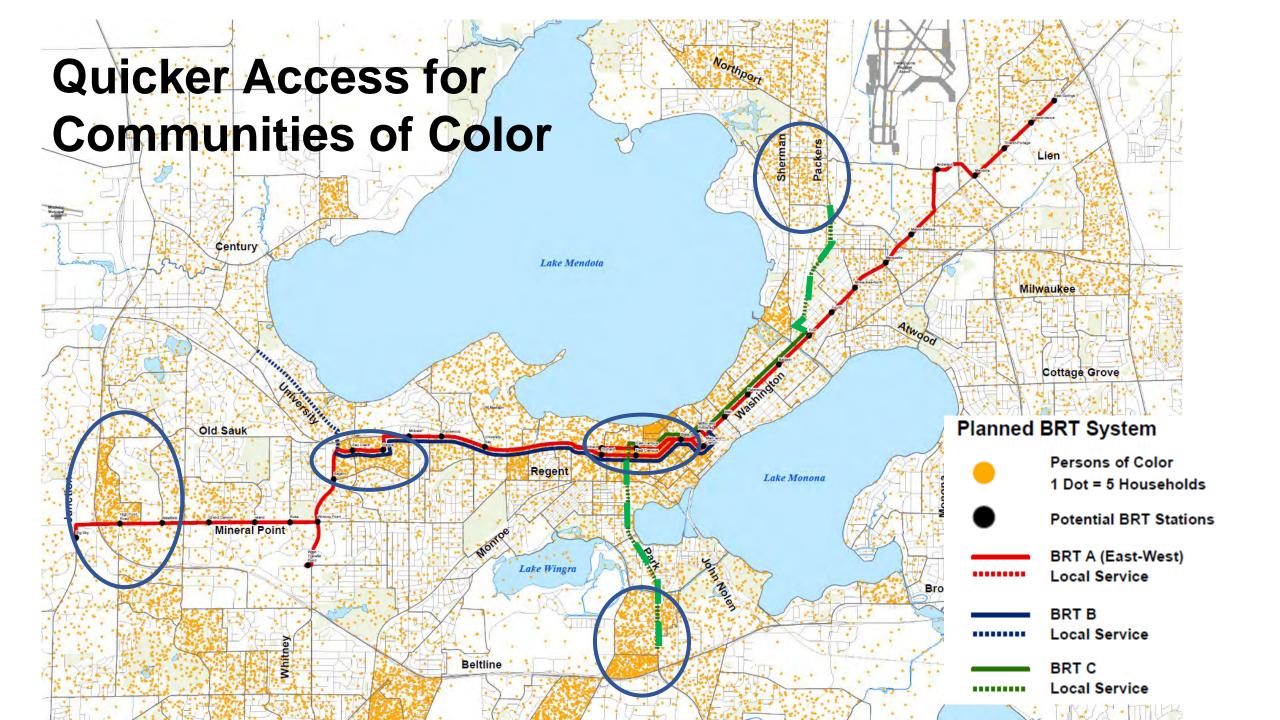


4 with complementary Service











# **Bus Rapid Transit**

Direct routes and fewer stops

• Frequent, all-day service

Bus-only lanes

Branded stations & buses

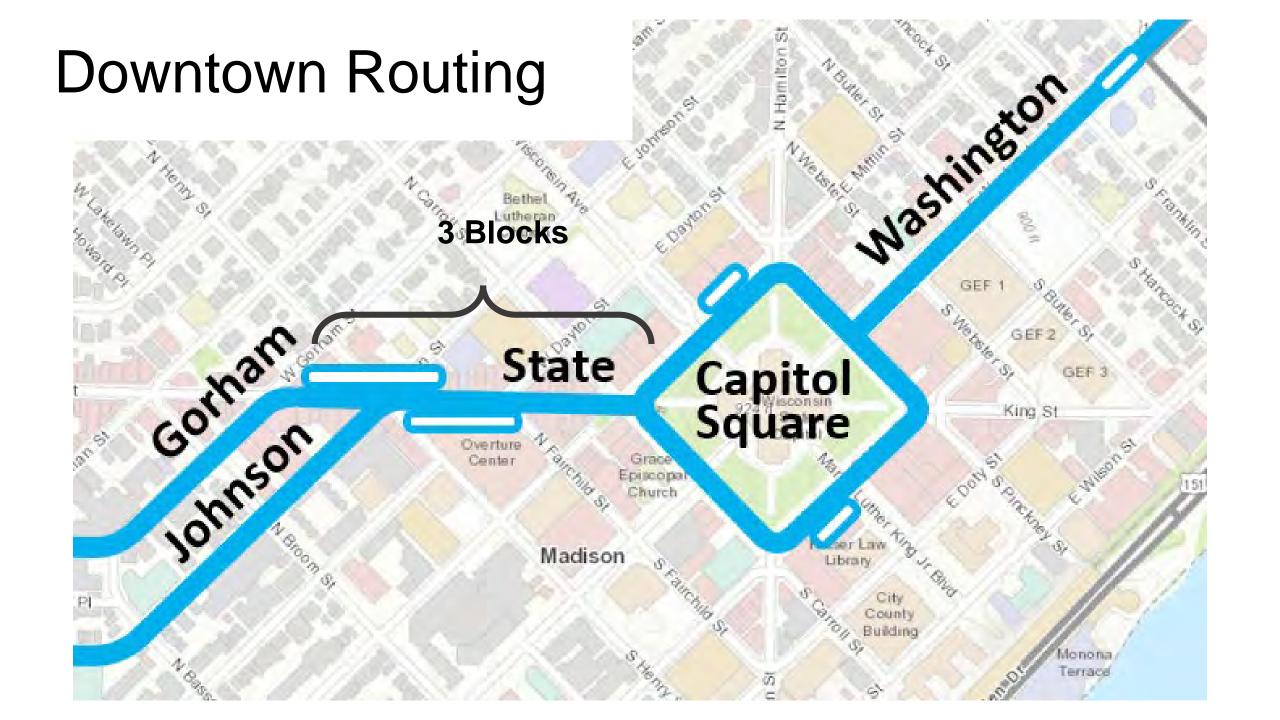
Transit signal priority

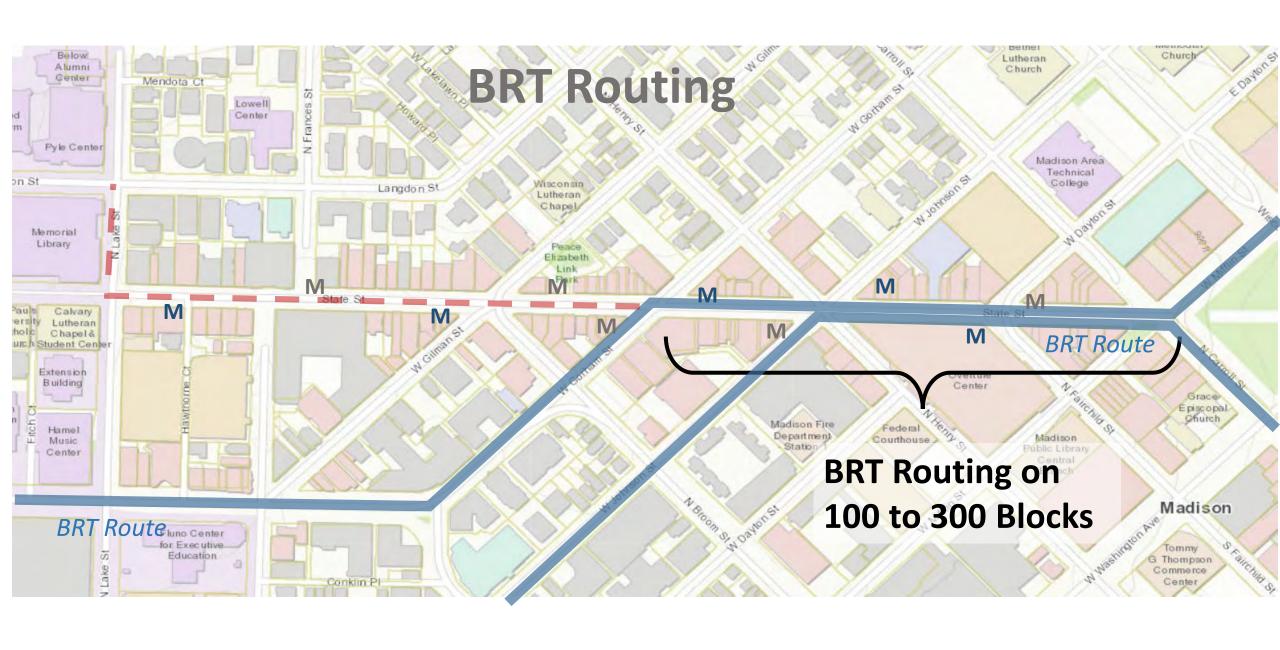
Faster fare payment



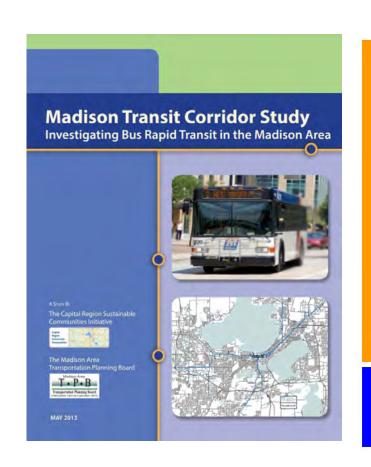


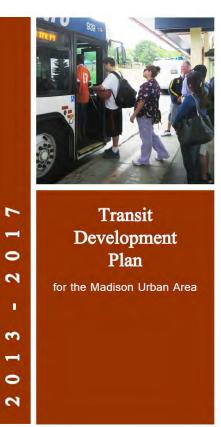






# State Street in BRT Routing







# State Street in BRT Routing

City of Madison

DEPARTMENT OF





TRANSPORTATION

**East-West Bus Rapid Transit** 

Downtown Routing 2020-01-27



### City of Madison

City of Madison Madison, WI 53703 www.cityofmadison.com

Signature Copy
Resolution: RES-20-00289

File Number: 59665 Enactment Number: RES-20-00289

Adopting the recommendations of the Transportation Policy and Planning Board for the Bus Rapid Transit (BRT) Downtown Routing and West Side Routing and incorporating the recommendations into the BRT east-west corndor Locally-Preferred Alternative (LPA), and recommending that LPA enter into project development and the next phases of planning, preliminary engineering, design and environmental evaluation.

WHEREAS the Madison area continues to create employment and draw residents, and that growth creates significant transportation demands; and,

WHEREAS the Madison area geography makes it difficult to address the significant transportation demands with conventional roadway expension; and,

WHEREAS Bus Rapid Transit (BRT) is a critical component in addressing Madison's future transportation needs, enabling the continued prosperity of the region; and,

WHEREAS the Phase 1 BRT East-West corridor project included a detailed evaluation of potential routes and street alignments, including a thorough evaluation of BRT routes through the downtown and the west side and

WHEREAS the route evaluation used criteria to determine recommended streets, including ability to serve employment centers and key destinations, ability to provide dedicated running way, ability to provide access to BRT for other users of the Metro local system (including disabled persons or other underserved communities), indership potential, and impacts on traffic, pedestrians and historials and

WHEREAS, the City will need to identify its Locally-Preferred Alternative and request permission from the Federal Transit Administration (FTA) to enter the project development phase, eventually leading to submittal for evaluation into the Small Starts program; and,

WHEREAS, the City aims to select routing that will incentivize future indership amongst residents, visitors, and tourists, with convenient, accessible, and responsive service, while improving service for current offers and.

WHEREAS, the City recognizes the importance of thriving brick and mortar businesses and special events to the vibrancy, culture, and success of our overall community; and.

WHEREAS, transit routing accommodations would continue to be made for existing special events,

WHEREAS, transit routing accommodations would be considered for future visiting premier events; and,

WHEREAS, the City will need to identify its Locally-Preferred Alternative and request permission from the Federal Transit Administration (FTA) to enter the project development phase, eventually

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### City of Madison

City of Madison Madison, WI 53703 www.cityofmadison.com

Signature Copy Resolution: RES-21-00033

File Number: 63184 Enactment Number: RES-21-00033

Adopting the recommendations for the Bus Rapid Transit (BRT) east-west corridor described in the report entitled "Revised Locally Preferred Alternative"

WHEREAS, in early 2020, the City identified its Locally-Preferred Alternative as part of its request of the Federal Transit Administration (FTA) to enter the project development phase, eventually leading to submittal for evaluation into the Small States program; and

WHEREAS, in August 2020, the FTA approved the LPA for entry into the federal project development program; and.

WHEREAS, as part of the continuing engineering and evaluation of the LPA in project development, several refinements have been proposed by the staff team - including changes to some station locations, types of running way, and end points; and,

WHEREAS, modifications to the running way on East Washington Avenue, Whitney Way and Mineral Point Road comfors are being proposed, such as the creation of bus-only lanes along the center of the roadway, as opposed to the curb side of the street - and locating the stations along those comfors in the median of the streets as opposed to the termoes: and

WHEREAS, there are a number of advantages to center-running bus lanes and median stations, including the preservation of on-street parking during most of the day in locations where it is needed, allowing for better bicycle accommodations in all of the corridors, fostering an improved pedestrian environment and reduced cost due to having fewer stations, and,

WHEREAS, the City needs to identify its revised Locally-Preferred Alternative and request that the Foderal Transit Administration determine the NEPA Class of Action for environmental evaluation and documentation to take place in 2021;

NOW THEREFORE BE IT RESOLVED that the Common Council adopts the recommendations contained in the Revised Locally Preferred Alternative report and incorporates them into the revised Locally Preferred Alternative for the east-west corridor; and.

BE IT FURTHER RESOLVED that the project continue refinements within the project development process and the next phases of planning, preliminary engineering, design and environmental evaluation; and

BE IT FINALLY RESOLVED that Department of Transportation staff continue to provide updates and project status to the Transportation Policy & Planning Board.

At a meeting of the COMMON COUNCIL on 1/5/2021, a motion was made by Carter, seconded by Verveer, that this Resolution be Adopt with the Recommendation(s). The motion passed by the following vote:

Page 1 Printed on 7/13/2

(Legistar 59665)

(Legistar 63184) (Center Running)

2019-20

# State Street Routing

- Goes to where people want to go.
- Provides access to the visible and cultural center of the City
  - Three museums
  - Performing arts center
  - Retail and Restaurants
- Station and people oriented
- Free from most traffic delays
- Fast and direct (rather than circuitous)

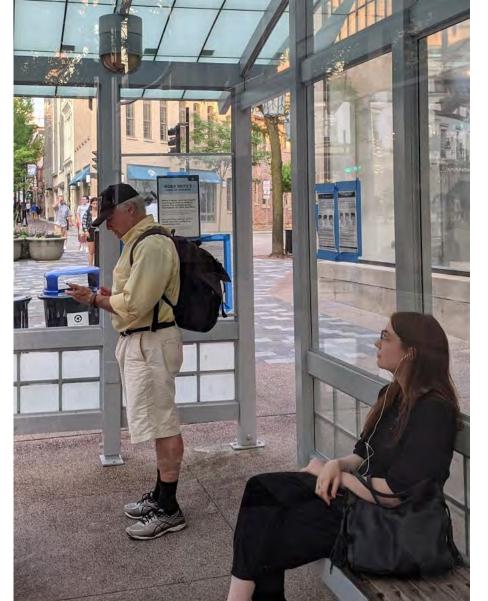


### Transit Use On State Street

- 950 people per weekday boarded at the stops that will be consolidated into the State Street BRT station
- About 250,000 people per year
- Many times more pass through State Street on the bus and see the opportunities

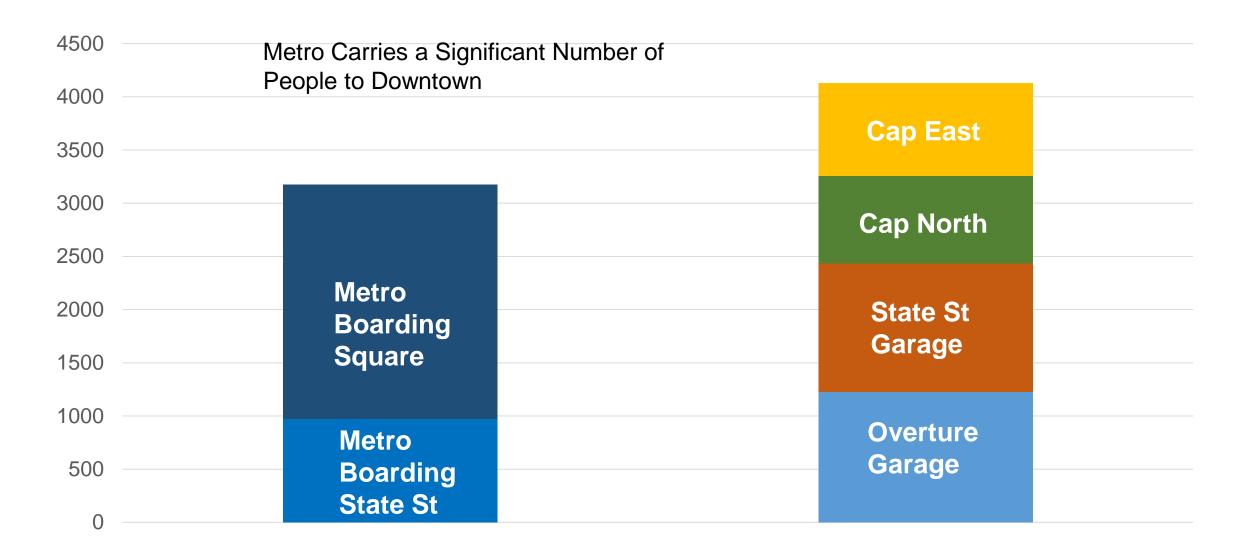




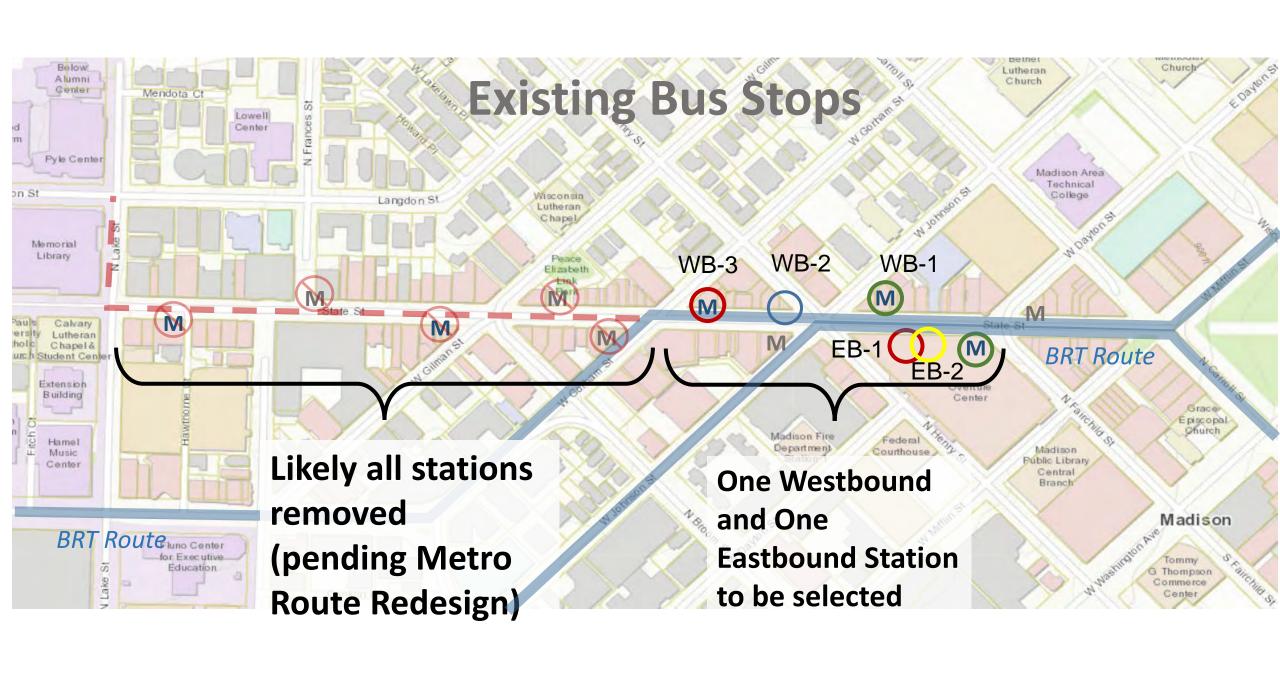




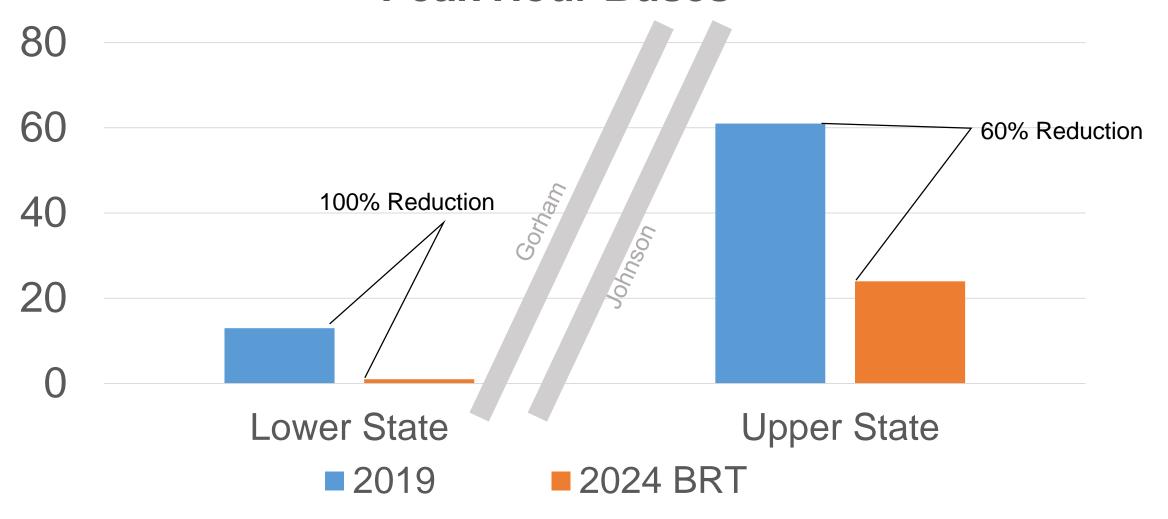
## 2019 Upper State and Square Weekday Access



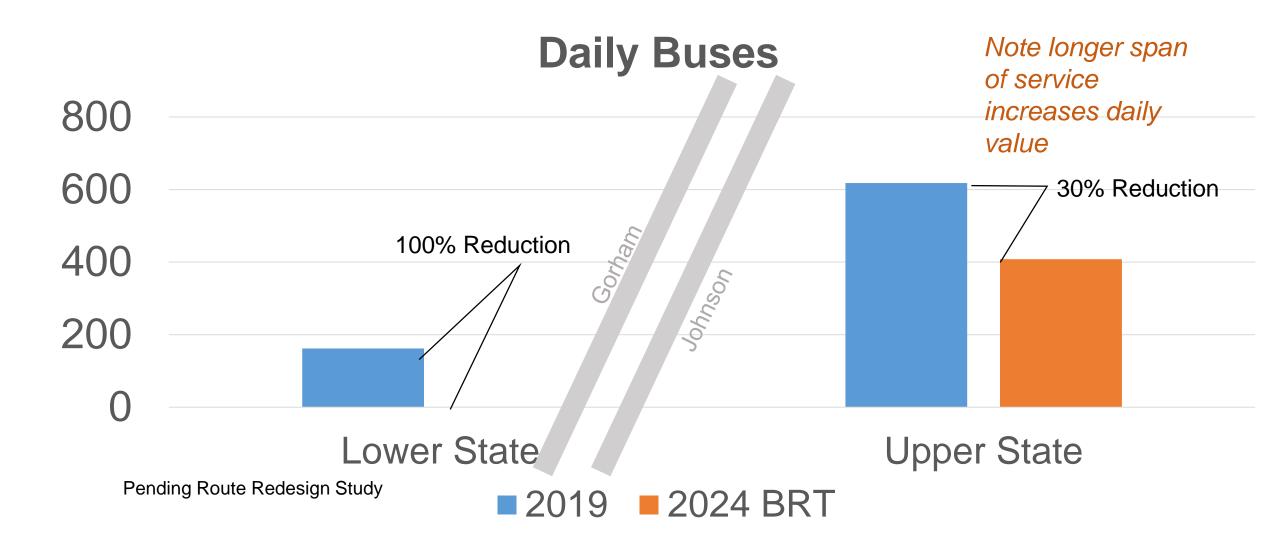




### **Peak Hour Buses**



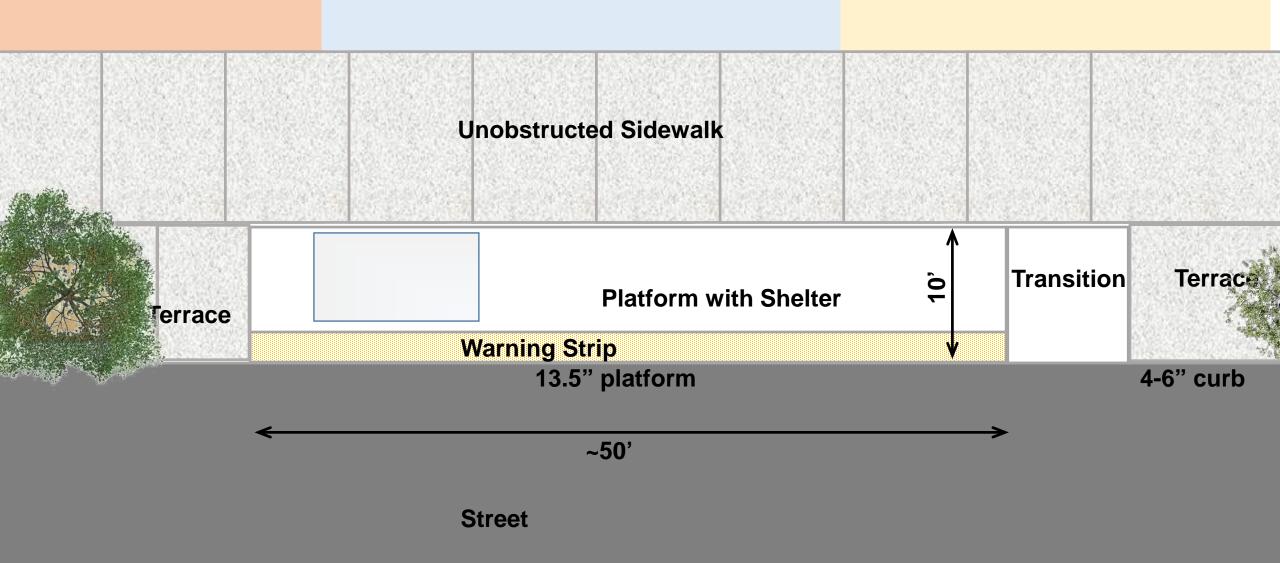
Pending Route Redesign Study



# **State Street Station Options**



## **Basic BRT** Dimensions









































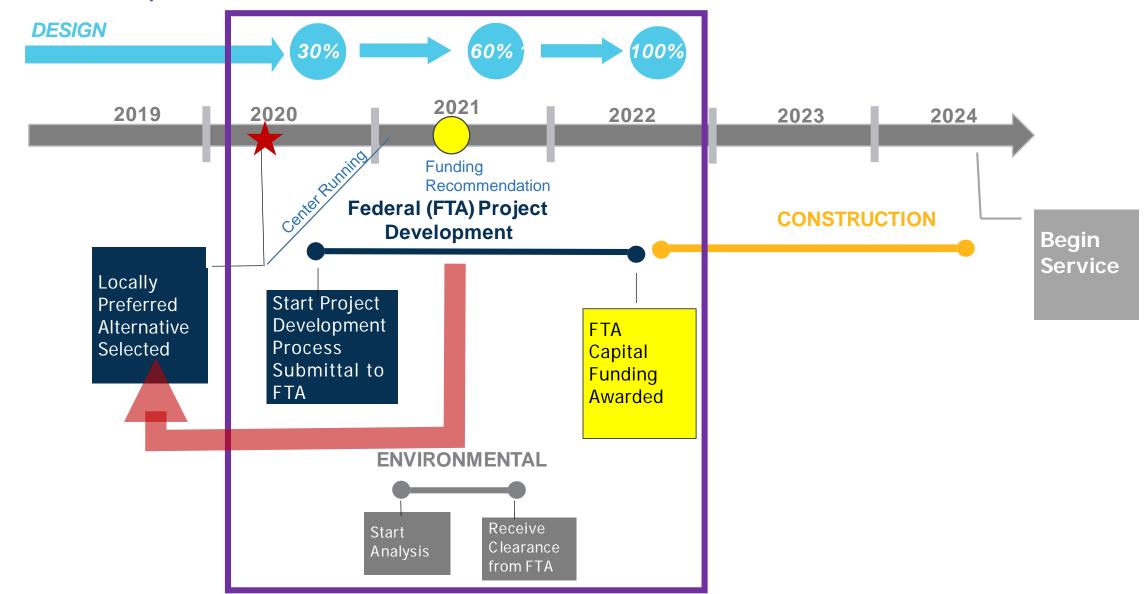




Phase State, City, Project Recommend	ed Sm	nall	Starts	Pro	jects	al Financial ommitment Rating	Project Justification Rating	Overall Project Rating
Small Starts Project Development								
^ AZ Flagstaff, Transit Spine BRT	\$32.9		\$32.9					
CA Los Angeles, Restoration of Historic Streetcar in Downtown Los Angeles	\$282.2	\$14.2	\$296.4	\$100.0	33.7%	Medium-Low	Medium	Medium-Low
CA Monterey Bay, SURF! Highway 1 Busway and BRT	\$55.0		\$55.0	\$40.0	72.7%		***	
+++ CA Sacramento, Downtown Riverfront Streetcar Project	\$117.0		\$117.0	\$50.0	42.7%	Under Review	Under Review	Under Review
CA San Bernardino, West Valley Connector BRT Project	\$261.5	\$1.2	\$262.7	\$86.8	33.0%	High	Medium	Medium-High
^ FL Orlando, SunRail Connector to the Orlando International Airport	\$175 - \$225		\$175 - \$225					
& FL Tampa, Tampa Streetcar Extension and Modernization	\$234.5		\$234.5	\$99.9	42.6%	Under Review	Under Review	Under Review
IN Indianapolis, IndyGo Blue Line Rapid Transit	\$209.7	\$10.3	\$220.0	\$100.0	45.5%	High	Medium	Medium-High
IN Indianapolis, IndyGo Purple Rapid Transit Line	\$151.7	\$3.3	\$155.0	\$77.5	50.0%	High	Medium	Medium-High
^ LA Baton Rouge, TramLinkBR	\$169.8		\$169.8	\$84.0	49.5%			
MN Rochester, Rochester Rapid Transit	\$114.5	\$0.0	\$114.5	\$56.1	49.0%	Medium-High	Medium	Medium-High
NC Chapel Hill, North-South Bus Rapid Transit	\$141.3	\$0.0	\$141.3	\$100.0	70.7%	Medium	Medium	Medium
NC Raleigh, Wake Bus Rapid Transit: New Bern Avenue Project	\$71.5	\$0.0	\$71.5	\$35.1	49.1%	High	Medium	Medium-High
^ NC Raleigh, Wake Bus Rapid Transit (BRT) - Western Corridor Project	\$180.0		\$180.0					
NY Albany, Washington/Western Bus Rapid Transit	\$81.2	\$0.0	\$81.2	\$60.9	75.0%	Medium	Medium	Medium
NY New York City, Woodhaven Boulevard Select Bus Service	\$258.8	\$0.0	\$258.8	\$97.2	37.5%	High	Medium	Medium-High
OR Portland, MAX Red Line Extension and Reliability Improvements	\$206.0	\$0.0	\$206.0	\$100.0	48.5%	High	Medium	Medium-High
PA Pittsburgh, Downtown-Uptown-Oakland-East End Bus Rapid Transit	\$249.9	\$0.0	\$249.9	\$100.0	40.0%	High	Medium-High	High
TN Memphis, Memphis Innovation Corridor Project	\$87.0	\$1.6	\$88.6	\$43.8	49.4%			
TX Austin, Expo Center Bus Rapid Transit Project	\$35.6	\$0.0	\$35.6	\$17.8	50.0%	High	Medium	Medium-High
TX Austin, Pleasant Valley Bus Rapid Transit Project	\$36.6	\$0.0	\$36.6	\$18.3	50.0%	High	Medium	Medium-High
^ TX Austin, South Lamar Bus Rapid Transit Project	\$26.0		\$26.0					
^ TX Waco, Rapid Transit Corridor	\$18.3 - \$19.4		\$18.3 - \$19.4					
UT Ogden, Ogden/Weber State University BRT	\$99.7	\$0.0	\$99.7	\$64.5	64.7%	Medium	Medium	Medium
^ UT Salt Lake County, Midvalley Connector Project	\$85 - \$105		\$85 - \$105					
^ VA Alexandria, West End Transitway	\$119 - \$140		\$119 - \$140					
WA Everett, Swift Orange Line BRT	\$81.0	\$0.0	\$81.0	\$37.2	45.9%	High	Medium	Medium-High
WA Seattle, Madison Street BRT	\$133.4	\$0.0	\$133.4	\$59.9	44.9%	High	Medium-High	Hìgh
WA Seattle, RapidRide I Line	\$117.6	\$0.0	\$117.6	\$55.6	47.3%	High	Medium	Medium-High
^ WA Seattle, RapidRide K Line BRT	\$89.8		\$89.8	2.2				
WA Seattle, Roosevelt RapidRide Project	\$90.2	\$0.0	\$90.2	\$45.0	49.9%	High	Medium-High	High
WA Seattle, Seattle Center City Connector	\$285.5	\$0.0	\$285.5	\$75.0	26.3%	High	Medium-High	High
WA Tacoma, Pacific Avenue/SR 7 BRT	\$170.0	\$0.0	\$170.0	\$75.2	44.2%	High	Medium	Medium-High
WA Vancouver, C-TRAN Mill Plain BRT	\$49.9	\$0.0	\$49.9	\$24.9	49.9%	High	Medium	Medium-High
WI Madison, Madison East-West BRT	\$157.2	\$2.8	\$160.0	\$80.0	50.0%	High	Medium	Medium-High

## **BRT Timeline**

Project Development



## **Modifications to Respond to Concerns**

- Majority of BRT buses electric (low noise, no fume)
- Reduced BRT shelter size 50 to 60 percent
- Located shelters to maximize window visibility
- No streatery or sidewalk vending areas affected
- Stations reduced from 10 to 2\*
- Substantial reduction of buses on upper State St
- Likely NO buses on lower State St\*

\*pending Route Redesign study findings





## **East-West Bus Rapid Transit**

Common Council Executive Committee July 13, 2021