Capital City Bikeway Interim Design Study

Transportation Committee

May 4, 2020





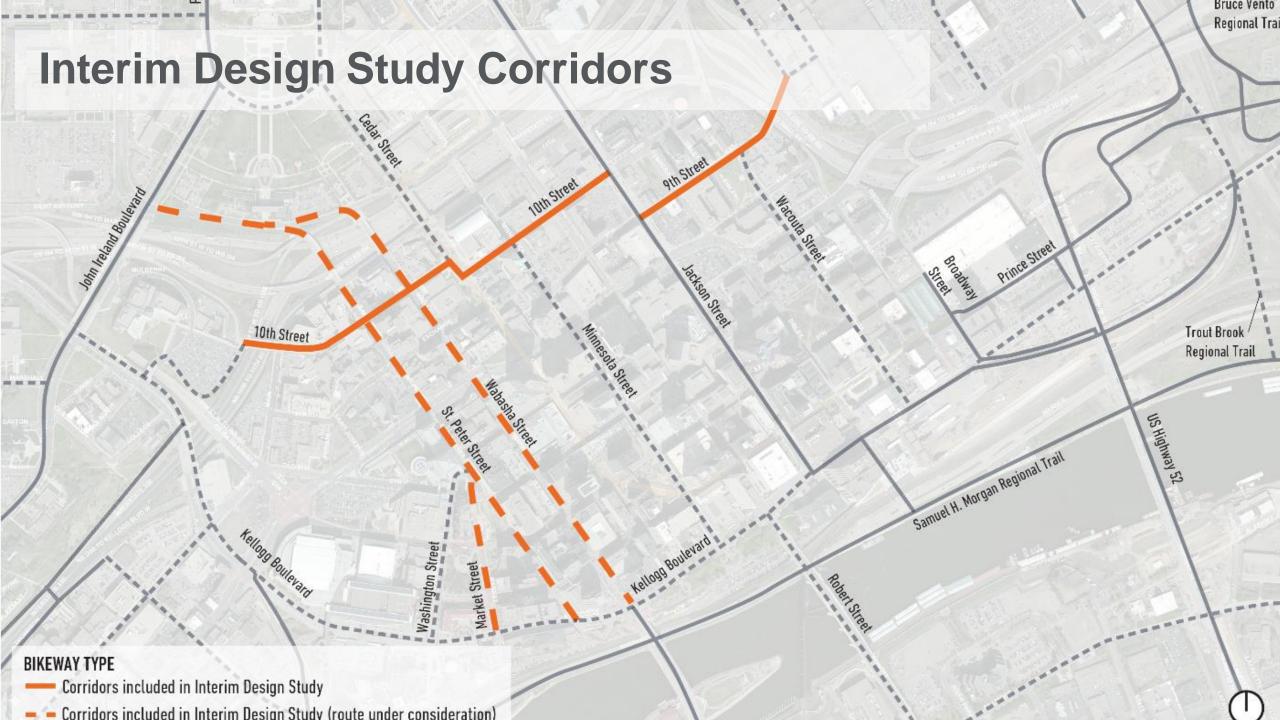


Agenda

- Project Overview
- 9th Street / 10th Street Recommendation
- St. Peter Street / Wabasha St Corridor Update
- Next Steps

Project Purpose

- Determine Interim Design for 9th/10th Street
- Determine preferred route for west leg of CCB (St. Peter or Wabasha)
- Determine Interim Design for west leg of CCB



What do we mean by "interim" bikeway?

Something like this ——









Community Engagement

- Project webpage
- Public open houses
 - 70 attendees (1st open house); 85 attendees (2nd open house); 80 attendees (3rd open house)
- Online surveys
 - 140+ respondents 1st survey; 100+ respondents 2nd survey; 180+ respondents to 3rd survey
- Targeted stakeholder engagement
 - Direct outreach to stakeholders by City interns
 - Small group meetings with various stakeholder groups
- Technical Advisory Committee
- Transportation Committee (5/20/19 and 10/21/19)

What We've Heard

- Preference for bikeways with physical separation from motor vehicle traffic
- Sidewalks and sidewalk amenities are top priority for use of street space
- Loading zones and on-street parking are important
- Preference for two-way bicycle facilities
- Mixed feedback on two-way to one-way street conversion
- Maintenance is important, especially snow clearing

Project Overview

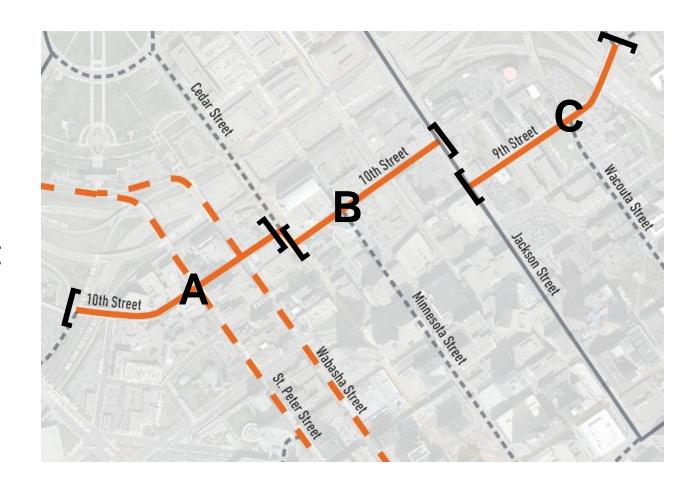
Questions / Discussion



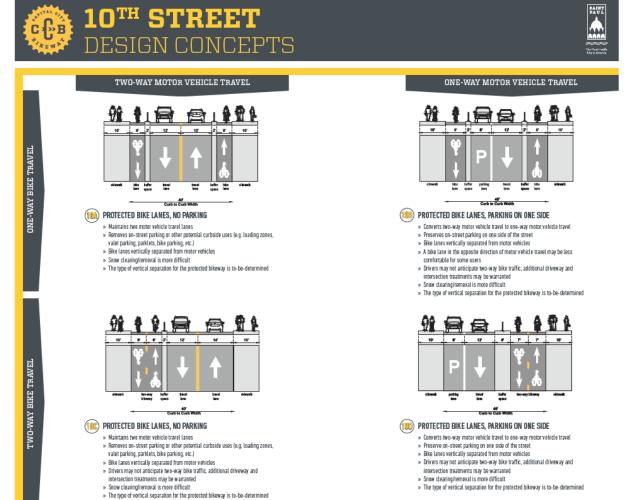
9th-10th Street Corridor Segments

- A. 10th Street:

 Dorothy Day to Cedar Street
- B. 10th Street:
 Cedar Street to Jackson Street
- C. 9th Street:
 Jackson Street to I-94 bridge



9th-10th Open House 1

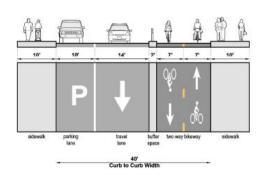




9th-10th Open House 2

CONCEPT B1: ONE-WAY STREET WITH TWO-WAY SEPARATED BIKEWAY





Pros:

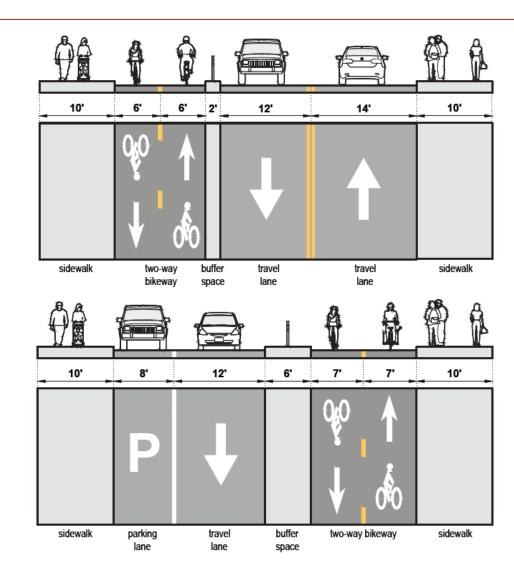
- One-way roadway allows space for on-street parking and loading on one side of the street.
- Two-way bikeway wide enough to maintain with similar equipment as roadway.

Cons:

- One-way roadway makes some driving routes less direct.
- Drivers crossing bikeway must watch for gaps in bicycle traffic approaching from two directions.

10th Street Primary Options

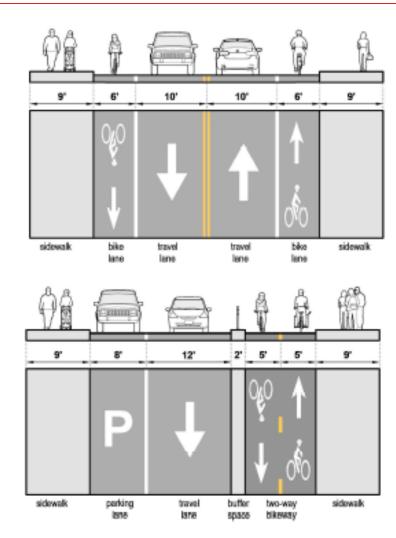
- Two-way motor vehicle concept with no parking/loading preserved
- 2. One-way motor vehicle concept with some parking/loading preserved



9th Street Primary Options

Two-way motor vehicle concept with no parking/loading preserved and standard bike lanes

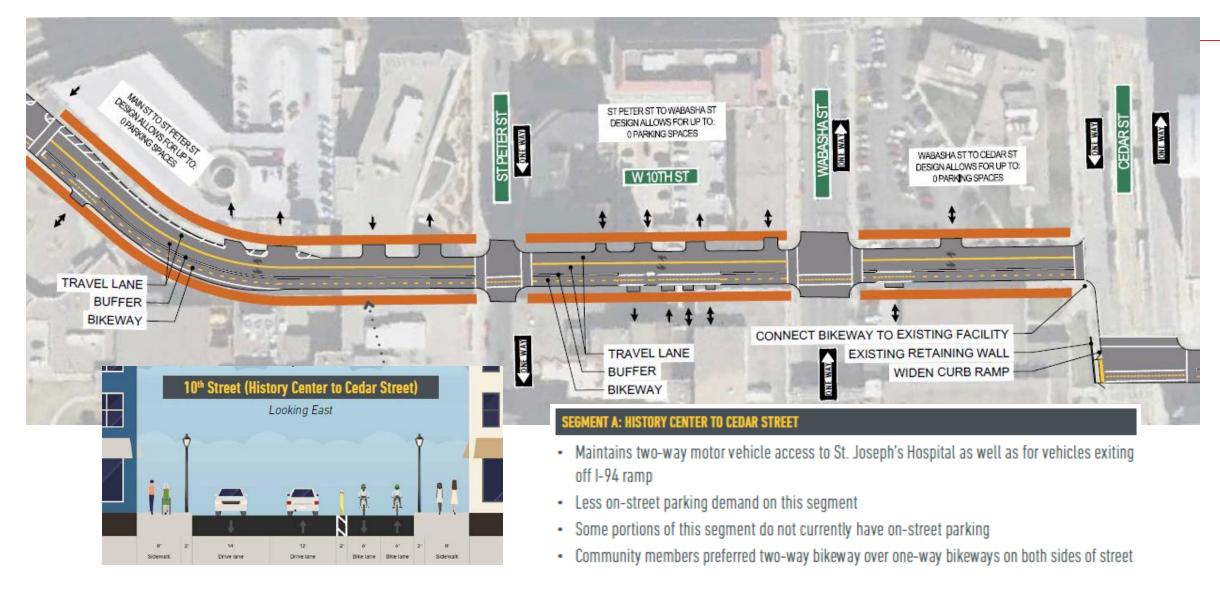
2. One-way motor vehicle concept with some parking/loading preserved



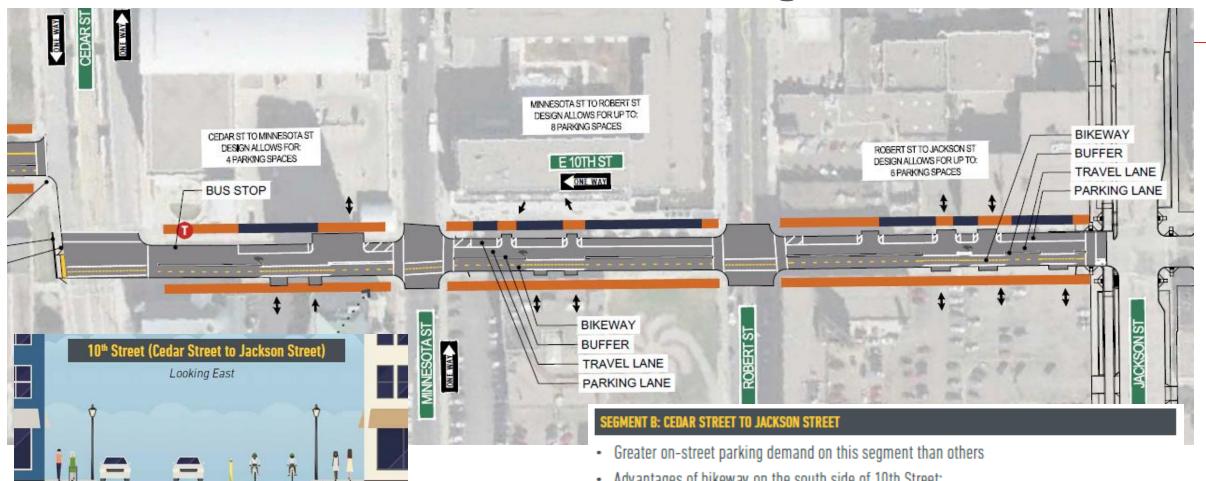
9th/10th Key Takeaways

- Mixed feedback regarding two-way versus one-way
- Preference for two-way bikeway with buffer
- Two-way operations west of St. Peter critical for hospital
- Traffic impacts of conversion to one-way not inconsequential
- Preference for more permanent interim design (concrete curbing)
- Implementation budget does not allow for curbing along full length of corridor

9th/10th Recommendation – West Segment

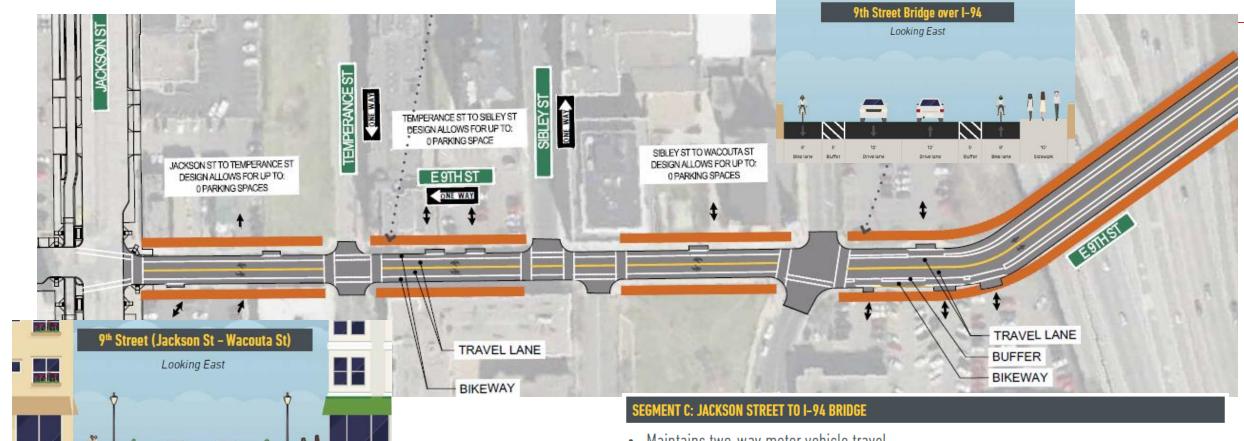


9th/10th Recommendation – Central Segment



- Advantages of bikeway on the south side of 10th Street:
 - Avoids conflicts with Metro Transit bus stop east of Cedar Street
 - South side bikeway will minimize conflicts with fire vehicles
 - Simpler bikeway transition between 10th Street and Jackson Street

9th/10th Recommendation – East Segment



- Maintains two-way motor vehicle travel
- Conventional, one-way bike lanes (and bike lanes with buffer) recommended due to budget constraints to construct a two-way separated bikeway
- Lower motor vehicle volumes on this segment compared to other two segments; thus the physically separated bike facility is less critical

9th/10th Next Steps

- City Council meeting May 6th
- Final Design
- Implement Fall 2020 in coordination with Downtown Mill and Overlay

9th-10th Street

Questions / Discussion





St. Peter / Wabasha Open House 1

Prioritization of street features

- Sidewalks Highest priority
- Sidewalk Cafes

- Street benches, trees, landscaping
- Delivery / Pick-up / Drop-off / Valet
- On-Street Parking Lowest priority
- Motor Vehicle Travel Lanes

St. Peter / Wabasha Open House 2

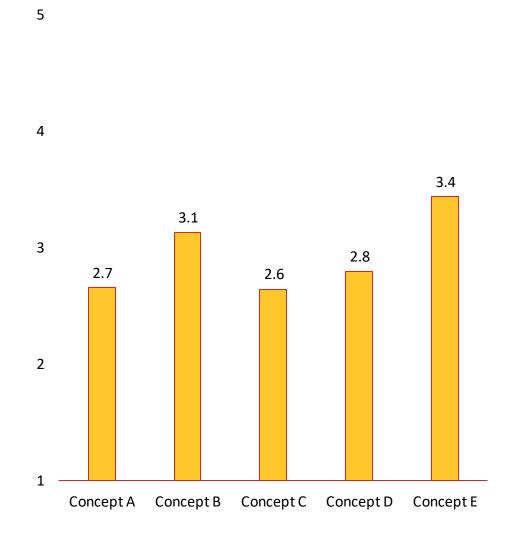
Five conceptual cross sections presented at Open House 2

- Option A St. Peter 2-way bikeway with 2 traffic lanes / 1 side parking
- Option B St. Peter 2-way bikeway with 1 traffic lanes / 2 side parking
- Option C Option A with diversion to Market south of 6th Street
- Option D Wabasha 2-way bikeway with 2 traffic lanes / 1 side parking
- Option E St. Peter and Wabasha 1-way bikeway with 2 traffic lanes / 1 side parking

St. Peter / Wabasha – Open House 2 Community Feedback

- **#2** A: St. Peter Street (Two-way Bikeway, 2 MV Travel Lane)
- #4 B: St. Peter Street

 (Two-way Bikeway, 1 MV Travel Lane)
- #1 C: St. Peter St / Market St
- #3 D: Wabasha Street
- #5 E: Wabasha + St. Peter



St. Peter / Wabasha Open House 3

Three Layout Concepts presented at Open House 3

- Concept A St. Peter 2-way bikeway
 - North of 6th Street with 2 traffic lanes / 1 side parking
 - South of 6th Street 1 traffic lane / 1 side parking
- Option B St. Peter / Market 2-way bikeway
 - North of 6th Street St. Peter with 2 traffic lanes / 1 side parking
 - South of 6th Street Market Street
- Option C Wabasha / 10th / St. Peter
 - South of 10th Street Wabasha with 2 traffic lanes / 1 side parking
 - 10th Street between St. Peter and Wabasha
 - North of 10th Street St. Peter

St. Peter / Wabasha Open House 3 **Technical Evaluation Matrix**

- Pedestrian and Transit Impacts
- Motor Vehicle Impacts
- Bicycle Comfort and Connectivity
- Cultural and Economic Impacts







CATEGORY	EVALUATION CRITERIA	CONCEPT A: St. Peter Street	CONCEPT B: St. Peter Street / Market Street	CONCEPT C: WABASHA STREET / 10TH STREET / ST. PETER STREET
PEDESTRIANAND TRANSIT IMPACTS	Bus Conflicts	No bus stops	Conflict with future Gold Line BRT station on south side of Hamm Plaza	Bus stops on east side of street do not impact bikeway on west side of street
	Curb Extension Removal	6	6	8
	Pedestrian Signal Timing Lengthened	3	2	4
20	On-Street Parking Impacts	Loss of 60 spaces	Loss of 62 spaces	Loss of 97 spaces
OR VEHICLE IMPACTS	Loading Zone Impacts	All existing loading zone spaces preserved or relocated	All existing loading zone spaces preserved or relocated	All existing loading zone spaces preserved or relocated
	Motor Vehicle Traffic Volumes (Daily Average)	2,850-4,300	2,850	7,530-10,300
MOTOR	Motor Vehicle Traffic Operation Impacts	Minor traffic operational impacts on south end of corridor if converted to one-lane	No significant traffic operational impacts	No significant traffic operational impacts
BICIC UNG COMFORT AND CONNECTIVITY	Bikeway Width	5 feet or greater per direction in all locations	5 feet or greater per direction in all locations	5 feet or greater per direction in all locations
	Bikeway Buffer Width	2 foot or greater buffer width along entire corridor	2 foot or greater buffer width along entire corridor	2 foot or greater buffer width along entire corridor
	Bike Connectivity & Directness	Direct; long-term connection to riverfront	Slightly less direct due to jog onto Market Street; long- term connection to riverfront	Jog in bikeway at 10th Street; connection over river via Wabasha Street bridge
	Motor Vehicles Turning Across Bikeway <u>anto</u> Carridor	931	667	1571
	Motor Vehicles Turning Across Bikeway <u>aff</u> of Corridor	316	344	763
	Driveway Crossings	3	1	9
CULURAL AND EXXNOMIC MPACTS	Connectivity to Cultural Destinations	Palace Theatre Landmark Plaza Hamm Plaza	1. Palace Theatre 2. Landmark Plaza 2. Hamm Plaza 4. Rice Park 5. George Latimer Central Library	Fitz ergerald Theater Palace Theater History Theatre History Theatre Minnesota Children's Museum
	Street Closure for Special Events	2 days/year	42 dayslyear	0 days/year
	Existing Street Level Vitality	Many established street-level businesses	Many established street-level businesses	Some established street-level businesses
	Future Economic Development Potential	Many established businesses; less apportunities to attract new businesses	Many established businesses; less opportunities to attract new businesses	Opportunities to attract new businesses



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Project Next Steps

- Complete Technical Evaluation
- Final Engagement Activity
- City Council Consider Alternatives
- Fall 2021 Implement St. Peter / Wabasha / Market (funding dependent)

St. Peter / Wabasha

Questions / Discussion

