

COMMUNITY ADVISORY COMMITTEE UPDATE

Meeting #6

January 29, 2024



Land Acknowledgement

Every community owes its existence and vitality to generations from around the world who contributed their hopes, dreams, and energy to making the history that led to this moment. Some were brought here against their will, some were drawn to leave their distant homes in hope of a better life, and some have lived on this land since time immemorial. Truth and acknowledgment are critical to building mutual respect and connection across all barriers of heritage and difference.

We are standing on the ancestral lands of the Dakota People. We want to acknowledge the Ojibwe, the Ho Chunk and the other nations of people who also called this place home. We pay respects to their elders past and present. Please take a moment to consider the treaties made by the tribal nations that entitle non-Native people to live and work on traditional Native lands. Consider the many legacies of violence, displacement, migration, and settlement that bring us together here today. And please join us in uncovering such truths at any and all public events.

The acknowledgment given in the USDAC Honor Native Land Guide - edited to reflect Minnesota tribes. In review with SIA and endorsed by Shannon Geshick, Executive Director Minnesota Indian Affairs Council.



Committee and Staff Introductions



Housekeeping



Group Agreements

- Be open-minded.
- Listen actively/respectfully when others are speaking.
- Speak from your own experience instead of generalizing (Use "I" instead of "they," "we," and "you").
- Respectfully ask challenging questions and refrain from personal attacks.
- Be engaged and provide feedback.
- The goal is not to always agree it is to gain a deeper understanding.
- Be aware of your facial expressions they can be perceived as disrespectful as words.
- Do not dominate the discussion, allow others to be heard.
- "Step Up and Step Back!"



Virtual Meeting Procedures

- Please mute your mic when not speaking.
- Please leave your video feed on if possible.
- If you wish to speak:
 - Please use the "raise hand" feature.
 - Unmute your mic.



Agenda

- Project overview and upcoming milestones.
- Recap of streetcar options.
- Comparison of streetcar options.
 - Travel time, ridership, cost.
 - Mall of America to Highway 5 river crossing.
 - West 7th area and design differences.
- Next steps.



Project Overview/Upcoming Milestones



Project Overview





Upcoming Milestones

- **PAC decision**: Determine which options should be presented to the public.
- Public and stakeholder engagement.
- **PAC decision:** Select desired option and determine next steps.



Recap of Streetcar Options



Streetcar Option 1

- Elevated MOA station at 82nd Street.
- New Hwy 5 bridge with pedestrian/ bike deck.
- Dedicated transit lanes from MOA to Grand Avenue.
- Shared lanes Grand Avenue to Union Depot.
- 20 stations.





Streetcar Option 2

- Elevated MOA station at 82nd Street.
- New Hwy 5 bridge with pedestrian/ bike deck.
- Dedicated transit lanes from MOA to Otto Avenue.
- Shared lanes Otto Avenue to Union Depot.
- 22 Stations (Smith and Jefferson added).





Travel Time, Ridership, Cost



Travel Time Assumptions

- Travel times calculated at peak hour.
- Accounts for mixed traffic variability, station dwell time, acceleration/deceleration, and interlining delay.
- Delay for signalized intersections based on traffic volumes (low, medium, high).
- Speed limit of 25 mph along Kellogg Boulevard and 30 mph along West 7th Street.



Travel Times

Segment	Streetcar Option 1	Streetcar Option 2
Westbound	0:44:02	0:45:33
Eastbound	0:43:22	0:44:49



Ridership

- Based on 2019 data.
- Ridership will be updated in the future with new regional model.

Total Project Trips





Overall Cost Assumptions

- 2023 Base Year.
- 2033 Revenue Operations.
- Capital Cost (2033):
 - Streetcar Option 1: \$2.10B.
 - Streetcar Option 2: \$2.12B.
- Estimate includes:
 - Elevated station at MOA, new Highway 5 bridge, track work, OMF, roadway reconstruction, other bridge work, stations, utilities, systems, right-of-way, vehicles, 40% overall contingency.



Streetcar – Operating Cost Assumptions

• Operating Schedule:

Day of Week	Start Time	End Time	Frequency (minutes)
Weekdays	3:00 a.m.	4:30 a.m.	30
	4:30 a.m.	10:30 p.m.	10
	10:30 p.m.	1:30 a.m.	30
Saturdays	3:00 a.m.	4:30 a.m.	30
	4:30 a.m.	10:30 p.m.	10
	10:30 p.m.	1:30 a.m.	30
Sundays	3:00 a.m.	4:30 a.m.	30
	4:30 a.m.	10:30 p.m.	10
	10:30 p.m.	1:30 a.m.	30

- Annual Operations and Maintenance Cost.
 - Streetcar Option 1: \$34M
 - Streetcar Option 2: \$34.5M



Comparison by the Numbers

	Streetcar Option 1	Streetcar Option 2
Number of Stations	20	22
Dedicated lanes	~10.1 miles or 87%	~8.2 miles or 72%
Service Frequency	10 mins/30 mins ¹	10 mins/30 mins ¹
Travel Time (westbound)	44:02 min	45:33 min
Travel Time (eastbound)	43:22 min	44:49 min
2040 Ridership	11,600	11,200
Capital Cost (2033)	\$2.10 billion	\$2.12 billion
Operations and Maintenance Cost (2023)	\$34 million	\$34.5 million

¹ Every 10 minutes from 4:30 a.m. to 10:30 p.m.; every 30 minutes from 10:30 p.m. to 1:30 a.m. and from 3:00-4:30 a.m.



Further Ways to Differentiate

- Risks to transit speed and reliability.
- Balance of parking, access, and mobility needs.
 - Pedestrian transit access and crossing of West 7th.
 - Opportunities behind the curb (pedestrians, trees, etc.)
 - Parking availability.
 - Business access.
 - Vehicle turning movements.



Mall of America to Highway 5 River Crossing



End of Line Station – Mall of America



Elevated station serves Riverview and Blue Line.

28TH AVE PARK

AND RIDE -

METRO TRANSIT

- Shorter trip for Blue Line (2 mins).
- Removal of existing tracks = less track maintenance.
- Opens up parcel for development.
- Removes existing traffic delays at 24th/Killebrew.



Conceptual Elevated Station





Conceptual Elevated Station





Fort Snelling Area





Blue Line Interlining from MOA to Fort Snelling Station

- Riverview accommodated with additional track and platform at existing Fort Snelling station.
- Interlining can occur with minimal disruption to the existing Blue Line service if:
 - Change in current operating rule to allow two trains in the tunnel at one time (Metro Transit and MAC).



Ramp Removal: WB Highway 62 to SB Highway 5

- About 1,600-2,100 vehicles per day use ramp to access MSP Terminal 1.
- Ramp removal allows land connection to historic fort and improved bike/ped connections.





Mitigation Considerations

- Re-route to TH 55 and back minimizes bedrock, visual, and other environmental impacts.
- Full mitigation (new flyover ramp) has environmental concerns and high cost.
- Future work would investigate other potential mitigation including signing/detour or other improvement.
- Project will need regional operational modeling to further understand impacts (future phase).



Mitigation Considerations



Routing westbound on Hwy 62 to Minnehaha Avenue,
then eastbound on Hwy 62 to southbound Hwy 5



Highway 5 Bridge Concept



MISSISSIPPI RIVER BRIDGE CROSSING

CONCEPT 4 - DOUBLE DECK WITH CONTINUOUS STEEL BOX GIRDER

SEPTEMBER 26, 2022



31



Bridge Concept

- New replacement bridge with options for cost-sharing.
- Improves bike/pedestrian access and addresses ADA deficiencies.
- Opportunity for tribal and community programming on upper deck.
- Keeps existing tunnel intact to avoid rock impacts, per tribal partners.
- Five lanes available across bridge, including two dedicated transit lanes.
 - Single-track options not preferred by Metro Transit due to speed/reliability concerns.



Use of Lanes Across the TH 5 Bridge



2 lanes toward airport,1 lane toward Saint Paul

Not supported by MnDOT

2 lanes toward Saint Paul, 1 lane toward airport

Not supported by MAC

- High-level traffic forecasts = minimal difference between options.
- Two lanes toward Saint Paul preferred due to safety issues with Option 1.



Challenges with 1 Lane Toward Saint Paul





TH 5 Bridge Transition Point



- 2 transit lanes on upstream side of bridge transitions to center-running on West 7th.
- Existing loop from Mississippi Boulevard reconfigured and joins at new signal.



Streetcar Options 1 & 2: Davern Street Station Looking east towards West 7th Street and West Maynard Drive




West 7th Street (area with most differences between options)



Comparison of West 7th Alignments

Streetcar Option 1

Streetcar Option 2



- All dedicated lanes to Grand.
- Center-running alignment.

- Mixed traffic Victoria to Grand.
- Side-running alignment.
- 2 additional stations.



Streetcar Option 1 Transition Point - Grand







Existing signalized intersection



Dedicated transit lanes

Proposed signalized intersection

Mixed traffic lanes

Streetcar Option 1: Grand Avenue Station Looking east towards West 7th Street & Grand Avenue





Streetcar Option 2 Transition Point - Victoria







Existing signalized intersection



Dedicated transit lanes

Proposed signalized intersection

Mixed traffic lanes

Typical Section at Station (Randolph)

Streetcar Option 1



Streetcar Option 2



RANDOLPH AVE STATION SECTION



Streetcar Option 1: Randolph Avenue Station Looking east towards West 7th Street & Toronto Street





Streetcar Option 2: Jefferson Avenue Station Looking west towards station





Mid-Block Typical Section: Victoria to Forbes

Streetcar Option 1:



Streetcar Option 2:





VICTORIA TO FORBES SECTION

Streetcar Option 2: Smith Avenue Station Looking east towards West 7th Street & Walnut Street





Further Ways to Differentiate

- Risks to transit speed and reliability.
- Balance of parking, access, and mobility needs.
 - Pedestrian transit access and crossing of West 7th.
 - Opportunities behind the curb (pedestrians, trees, etc.)
 - Parking availability.
 - Business access.
 - Vehicle turning movements.



Speed and Reliability



- Less opportunity for vehicle hindrance

Option 2:

- Higher

track

possibility of

- Sensitive to

vehicle blocking

traffic congestion





West 7th Crossing Distance



- Longer Crossing Distances





- Shorter Crossing Distances
- Opportunity for Curb Extensions



Boulevard/Green Space

Option 1:

-Little to no boulevard space available in station or turn lane areas

THE SALVATION GRANE ARMY ST PAUL STAT LABOR CENTER ALVERA BONFE'S TREE IMPACT BAD WEATHER BREWING POTENTIAL COMPANY ACCESS CLOSURE THE SALVATION SMITH AVE ARMY ST PAUL STATION LABOR CENTER ALVERA BONFE'S TREE IMPACTS BREWING POTENTIAL COMPANY ACCESS CLOSURE

Option 2:

- Available
 boulevard space
 Space for
 landscaping/trees
 Snow storage
 Added barrier for
- Added barrier f pedestrians



Green Space

Parking Availability





On-Street Parking

Access Comparison

Option 1:

- Limits Thru Traffic Across Corridor
 Limits Left Turns off Corridor
 Full Access at
- Traffic Signal Only

Option 2:

- Allows Thru

Traffic and Left

Turns on Corridor







Existing signalized intersection

Proposed signalized intersection

Downtown Saint Paul



Downtown

- Mixed traffic operations.
 - Center-running (Option 1).
 - Side-running (Option 2).
- Serves Union Depot from Kellogg Boulevard.
- Capitol City Bikeway project, Kellogg bridge structures, and Riverview operations all affect each other.
- Connects West 7th Street to Lowertown.





Center Running: Minnesota Street Station Looking west towards Kellogg Boulevard & Minnesota Street





Side Running: Minnesota Street Station Looking west towards Kellogg Boulevard & Minnesota Street





Option 1 (Center Running): Union Depot



Option 2 (Side Running): Union Depot





Sidewalk

Mixed Traffic Lanes

Green Space

Comparison of Streetcar Options



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Summary of Differentiators

Streetcar Option 1	Streetcar Option 2
More dedicated lanes = more reliable transit service.	More shared use = more difficult to recover service/longer delays.
Longer pedestrian crossings, and only at signalized intersections.	Shorter pedestrian crossings due to bumpouts and medians.
Pedestrians cross traffic lane to access center platform.	Pedestrian access to transit from the curb.
Trees do not conflict with catenary wire but less space in boulevard for trees.	More potential for tree/catenary wire conflicts.
Left turns and through movements to the other side of West 7th allowed only at signalized intersections, forcing right- in/right-out access in other areas.	All traffic movements allowed at all intersections.
Challenging delivery/loading operations.	Challenging delivery/loading operations. Possibility of adding loading/unloading zones at expense of parking spaces.
Very limited space for on-street parking (about 35 spaces remain).	Much on-street parking can remain (about 400 spaces).

Next Steps



Next Steps

- **February 2024** PAC meeting (bus option, comparison of all options, economic analysis).
- Spring/Summer 2024 Public engagement.
- Summer/Fall 2024 PAC action on next steps.



Thank You for Attending

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