SUMMIT AVENUE REGIONAL TRAIL PLAN

FEBRUARY 2023





AINT PAUL Parks and Recreation

Informational Update District Councils

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User

Experience



Long-range planning



BICYCLIST DESIGN USER PROFILES

Interested

but Concerned

51%-56% of the total population

Often not comfortable with bike lanes, may bike on sidewalks even if bike lanes are provided; prefer off-street or separated bicycle facilities or quiet or traffic-calmed residential roads. May not bike at all if bicycle facilities do not meet needs for perceived comfort.

Somewhat Confident

Generally prefer more

comfortable riding in

separated facilities, but are

bicycle lanes or on paved

5-9% of the total 4-7%

Highly

Confident 4-7% of the total population

Comfortable riding with traffic; will use roads without bike lanes.





TOLERANCE

TOLERANCE Note: the percentages above reflect only adults who have stated an interest in bicycling.

Source: U.S. Department of Transportation - Federal Highway Administration Bikeway Selection Guide, 2019



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Existing Bicycle Lanes













The Roadway



Many segments of Summit Avenue have not been reconstructed for more than 100 years.

Over time, roadways need to be reconstructed to replace aging infrastructure, this includes underground utilities, roadway base structure and surface, lighting, curb & gutter and sidewalks.

Improvements

Near-Term (2-3 yr.)

- Surface Improvements
- Crossings: Bump-Outs, Ramps
- Surface Improvements are Funded

Long-Term (Phased process, ~10-15+ yr)

- Roadway Reconstruction
- Regional Trail Facility
- NOT funded for construction



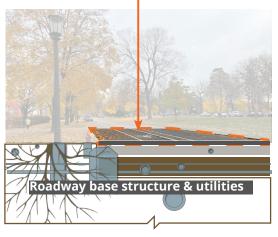






2022 - 2023 Surface Improvements (Mississippi River Blvd to Victoria)





ROADWAY Composition & Construction



STREET RECONSTRUCTION Occurs every 50-100 years*

*Specific scope and timing of roadway construction projects vary depending on existing conditions and funding availability

How does this relate to a trail facility?



The most cost-effective opportunities to add pedestrian and bicycle improvements come when roads are being fully redesigned.



Industry Best-Practices, Recommended Facility

This table outlines current best practices for bicycle facilities based on traffic volumes. Based on the existing annual average daily traffic counts on Summit Avenue, the majority of the corridor falls into the >6,500 vehicles per day category. The segment from Ramsey St to John Ireland Blvd is 3,900 vehicles per day.

Roadway Traffic Volume (vehicles per day)	Posted Roadway Speed	Recommended Facility Type		
		FHWA Bikeway Selection Guide	MnDOT Bicycle Facility Design Manual	NACTO Designing for All Ages and Abilities
< 3,000	25-30 mph	Shared Roadway or Bike Boulevard	Shared Roadway or Bike Boulevard	Bike Boulevard (<25 mph)
3,000-6,500	25-30 mph	Bike Lane (buffer preferred)	Bike Lane (buffer preferred)	Bike Lane (<6,000 AADT and <25 mph)
>6,500	25-30 mph	Separated Bike Lane or Sidepath	Separated Bike Lane or Sidepath	Separated Bike Lane or Sidepath

Fig. 4-33 | Recommended Facility Types









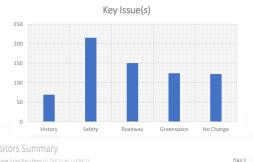
Community Engagement







60% Draft: Comment Period









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Community Open House*

* Figure reflects registered participants

Comments received 60% Draft Document - Engage Saint Paul

Comments received 90% Draft Document - Engage Saint Pau How has engagement informed the Regional Trail Plan?



Tree preservation

Distrubance within roadway footprint
Framework for constrained conditions when needed

Safety & User Experience

- Physical separation
- Removes two-way trail & contra-flow
- Intersection toolkit

Historical Significance

- Retains roadway footprint
- Patterns and symmetry
- Future formal SHPO and HPC reviews







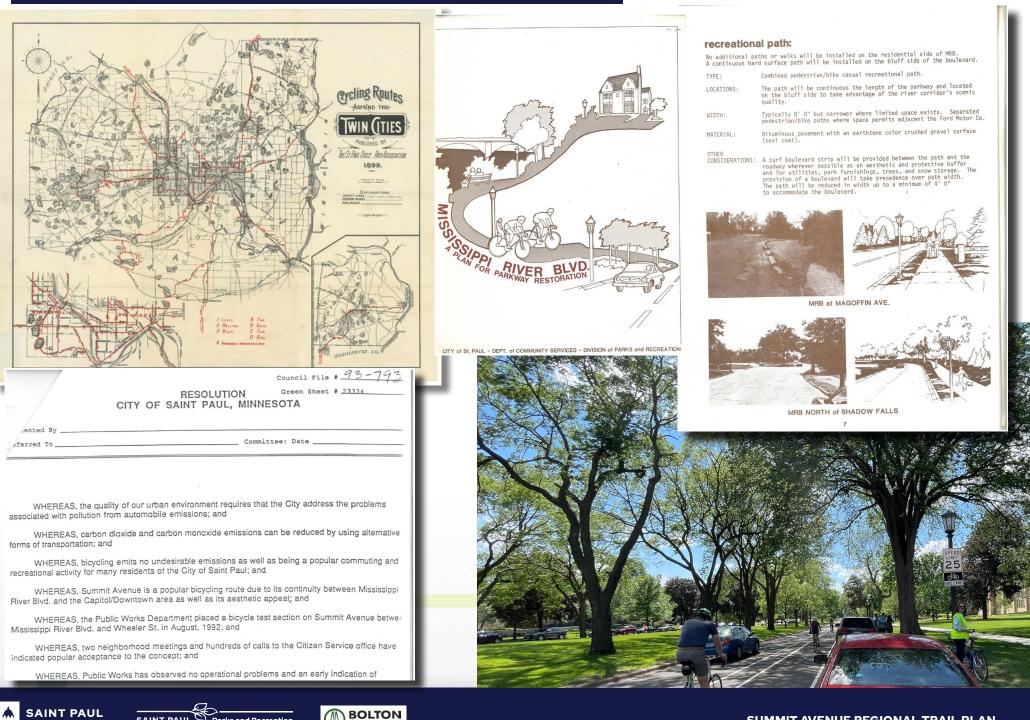
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Recreational Planning

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Summit Avenue Corridor



Roadway construction near Summit Avenue and Grotto, 1915 Credit: Minnesota Historical Society



View of Summit Ave from rooftop, looking northwest, circa 1900 Credit: Minnesota Historical Society









View of Summit Ave. looking west, circa 1900 Credit: Minnesota Historical Society

Consistency & Adaptability

- Wide Public Right-of-Way & Parkway Design
- Expansive, park-like Green Spaces
- •Pattern and Rhythm of Landscape and Public Space

Materials & Movement

- Pavements
- Walkways
- Bikeways

Corridor Layout

Summit Avenue Corridor Segments





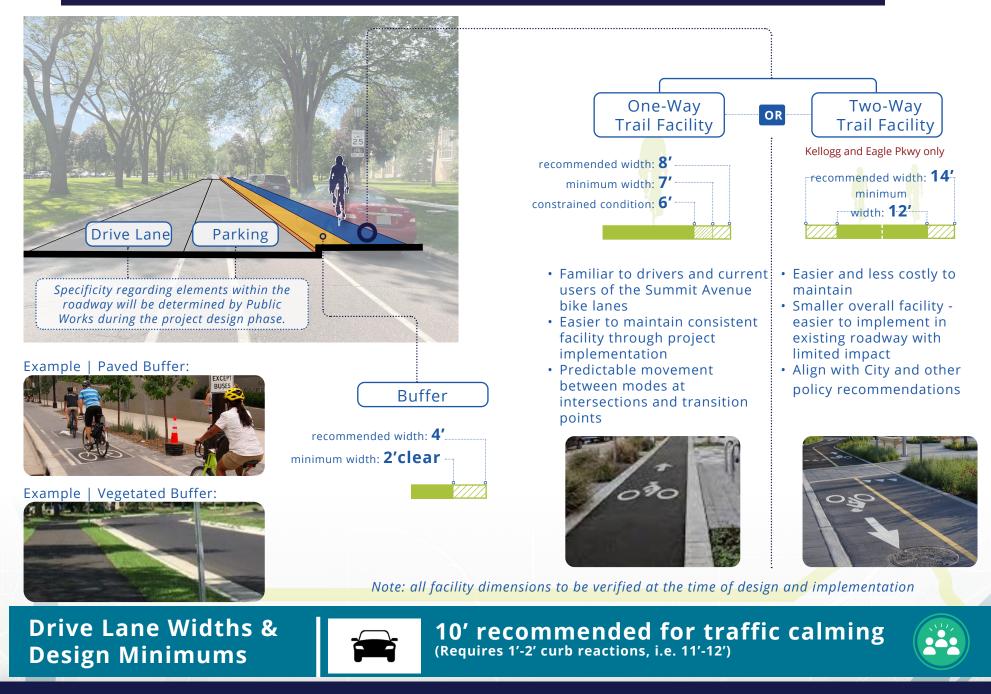
Legend

- Proposed Bike Facility Two One-Way Facilities
- Proposed Bike Facility One Two-Way Facility
 - (Kellogg & Eagle Parkway)





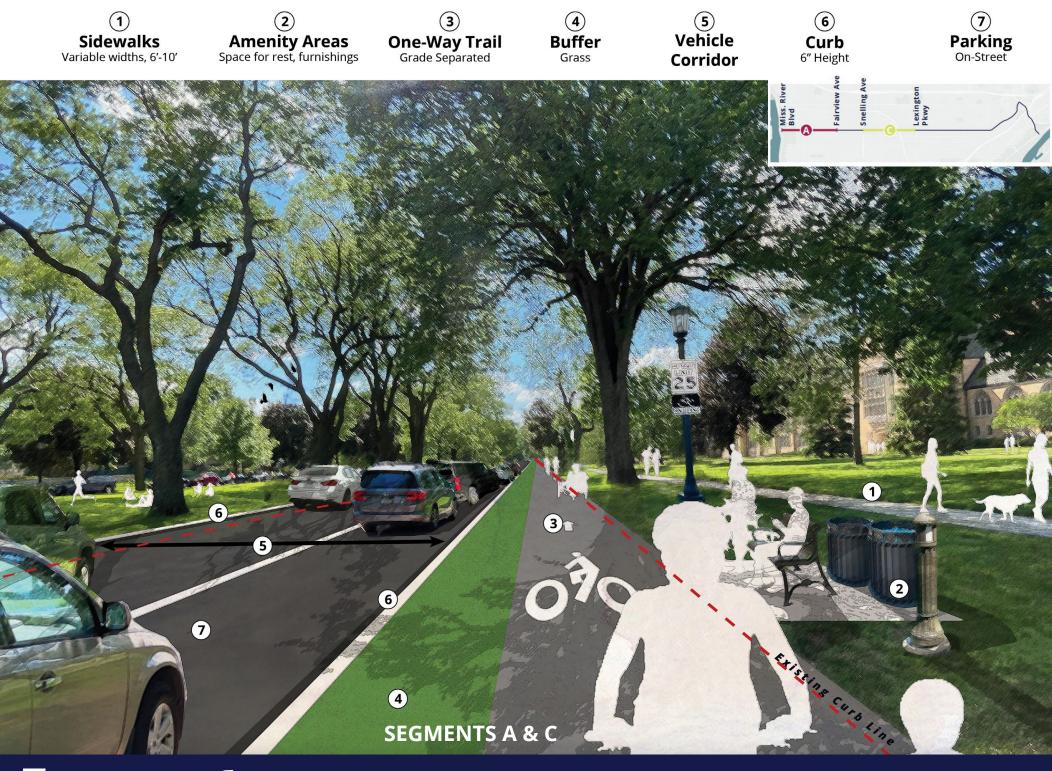
Proposed Components of the Transportation Envelope







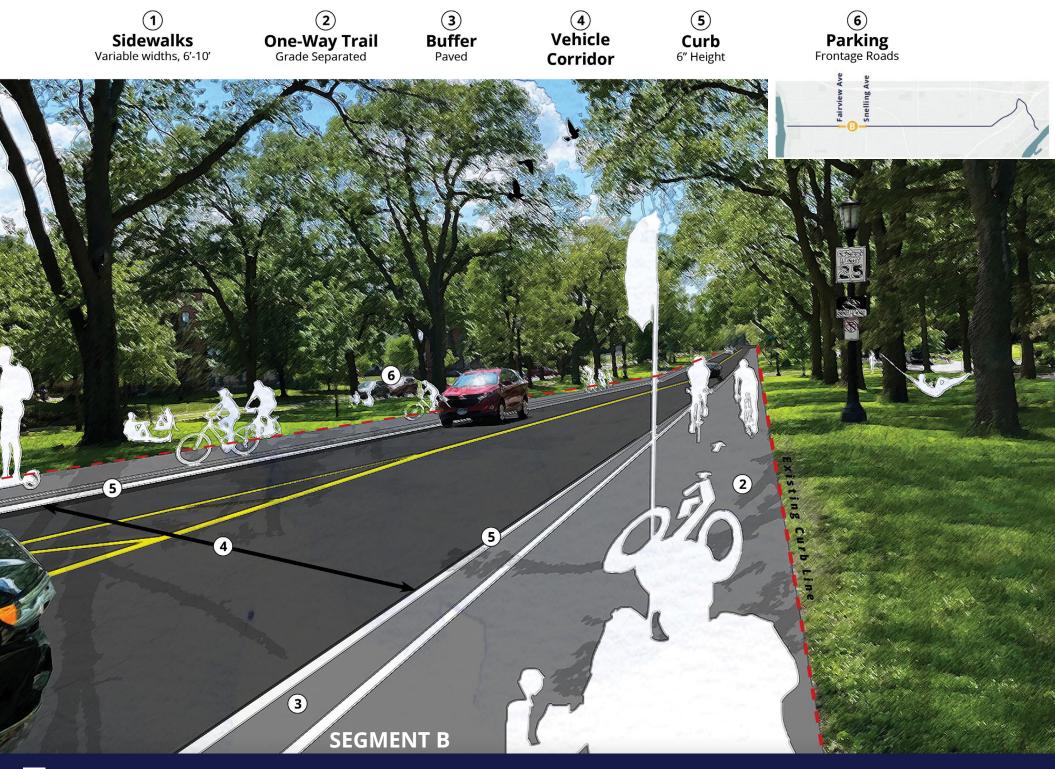




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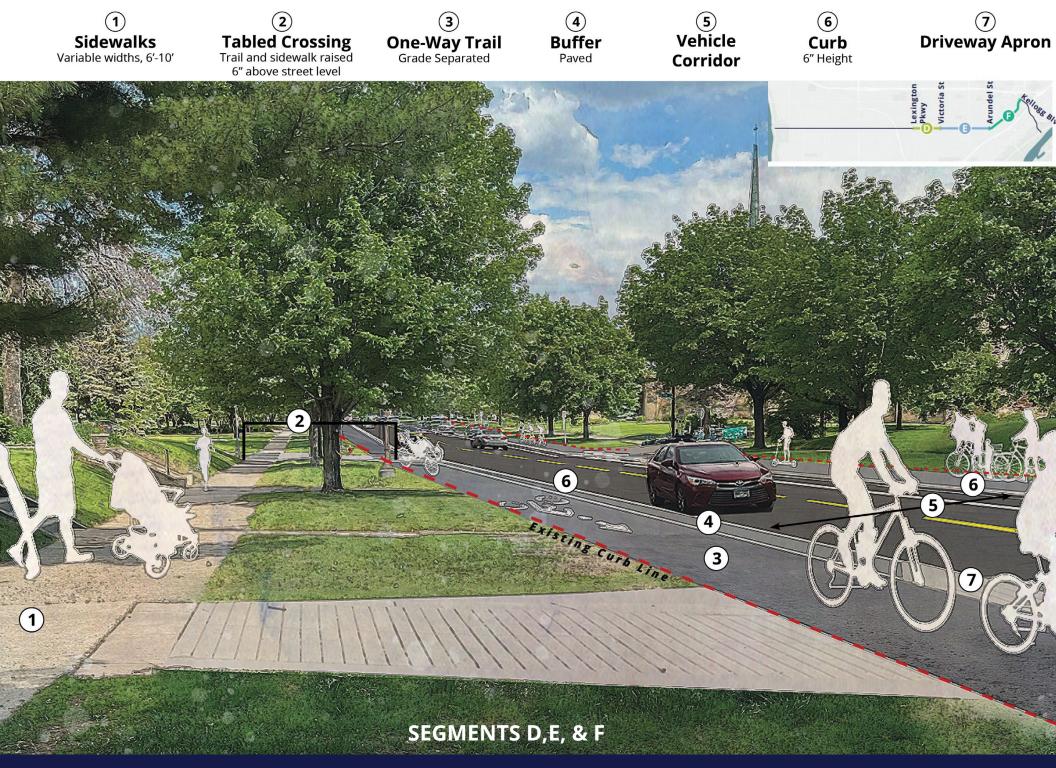


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Historic Lens

Engagement & Review Processes

• Plan Development

Technical Advisory Committee (TAC)

Staff from Heritage Preservation Commission (HPC) and State Historic Preservation Office (SHPO) are invited to participate in TAC meetings to provide guidance and initial feedback

BEYOND THE PLAN PROJECT UNDERTAKING | SECTION 106

Design & Engineering

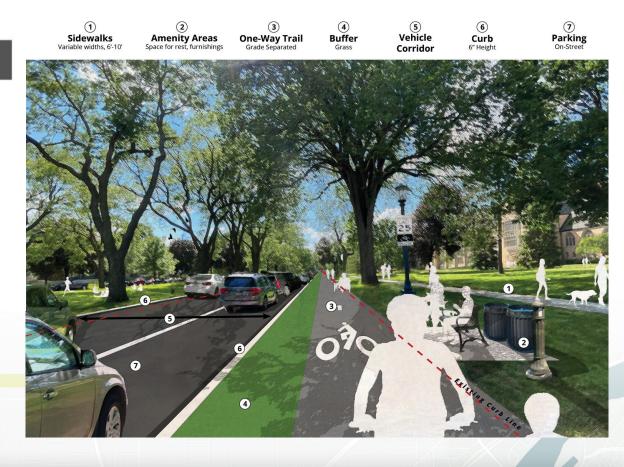
Formal Review

Depending on funding sources, Local, State, and Federal Review Processes Apply

Any undertaking identified in the National Historic Preservation Act (NHPA) as a project, activity, or program that is funded in whole or in part with federal financial assistance requires that affects to designated or potentially eligible structures are identified and assessed Departure from the typical section would be determined during design and engineering, constrained conditions could remove parking or reduce paved surface dimensions as a way to adapt to site conditions within the roadway.

•PARKING

• PAVED TREADWAY







Evaluating Potential Tree Impacts

Risk to trees is highly variable depending on specific site conditions, health of tree, and tree species.

15% of the trees in the Summit Avenue corridor could be considered highly vulnerable to construction. Specific impacts and tree preservation strategies will need to be evaluated beyond the master plan during design and engineering phases of a project.

Existing Condition

Existing Condition

- 1,561 Tree Corridor-Wide
- 132 High Vulnerability Trees (8% of total)
- :**«........................** Summit Avenue

Proposed Trail Concepts



Preferred Alignment

(one-way trail: corridor-wide)

• 221 High Vulnerability Trees (14% of total)









NOTE: Exercise is reflective of data currently available and is subject to variability. Existing Ash trees are included in the exercise overall. Surveyed data, site specific tree and field conditions corridor-wide are not available at this time.

Driveways

Drivers should yield to cyclists on the trail similar to yielding to pedestrians on a sidewalk. Different treatments of driveway crossings may be necessary depending on their use classification (high, medium, low). Many of the driveways in the corridor are for residential properties and would potentially have a lower use frequency

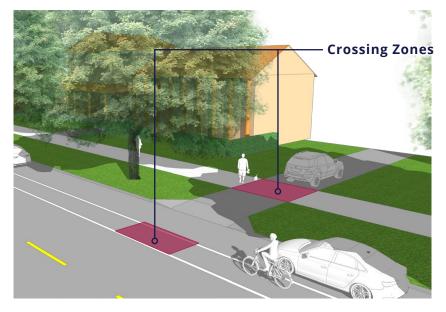


Fig. 4-1 | Typical Driveway Condition - Existing

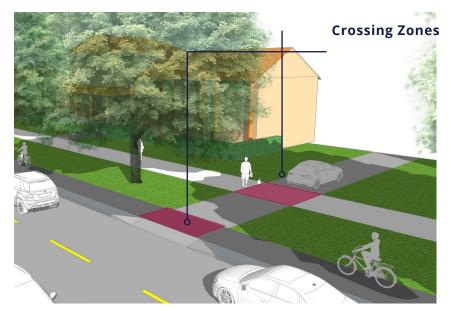


Fig. 4-2 | Typical Driveway Condition - Proposed

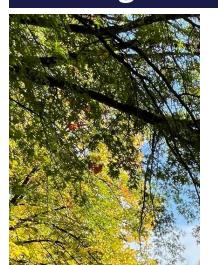
Driveways in the public right-of-way will be rebuilt as a part of future street reconstruction. Consider solutions during engineering that maintain usability for residents and keep sight lines open for all modes in crossing zones.







Parking



Citywide planning and policies in general do not prioritize on-street parking for single-occupancy vehicles. Parking counts conducted as a part of master plan analysis phase reflect on-street parking is under-utilized corridor-wide which supports a strategy of reducing on-street parking options to reallocate space for a regional trail facility.

West of Lexington Parkway

- Parking removal if design alternatives are not feasible and is determined to be critical to meet design standards for safety
- Parking to remain typically
- Design flexibility for parking removal at each block to accommodate emergency vehicles and sight lines

East of Lexington Parkway

- Context-based approach 50% parking reduction assumed (typical)
- Remove parking one-side of street, create lane shift to vary parking locations north/south
- Remove parking both sides: if needed, look for consistency and re-introduce 50% on-street parking options every 1-2 blocks
- Prioritize maintaining 50% parking near areas of multi-unit housing and limited off-street options



Proximity of modes

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- Safety & accessibility
- Perceived comfort
- Seasonal conditions

one-way, separated trail (6" above roadway, behind curb)

PROPOSED CONDITIONS - East of Lexington Parkway





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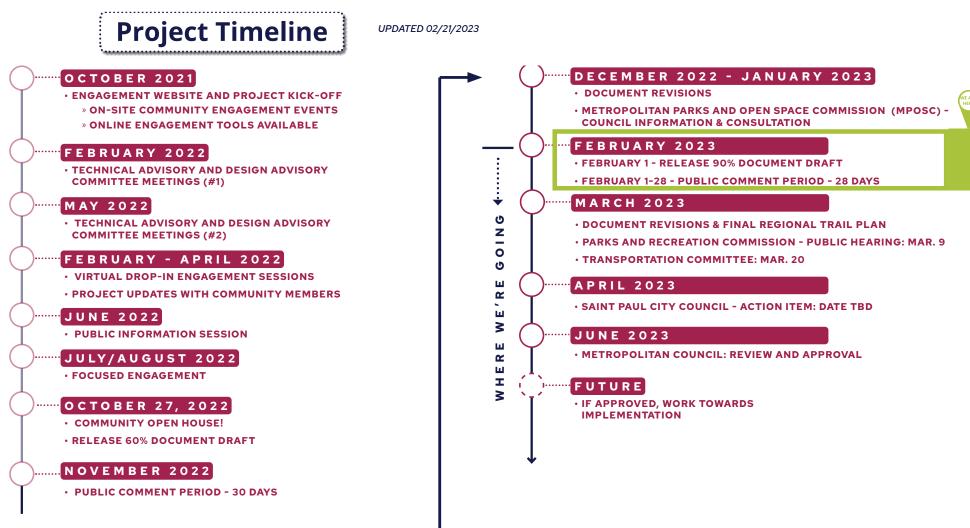
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Process



90% DRAFT plan is available for public comment in February www.engagestpaul.org/summit

WHERE WE'VE BEEN

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