

SUMMARY OF ENGINEERING RECOMMENDATIONS  
**2024 Residential Mill & Overlay Projects**

Report Prepared – 11/29/2023  
Public Hearing – 06/19/2024

**PROGRAM**

The Residential Mill & Overlay program proposes to extend the pavement life cycle by resurfacing the bituminous pavement. In conjunction, the project will upgrade existing pedestrian ramps to current ADA standards and/or construct new pedestrian ramps for sidewalk network connectivity.

The project areas are primarily dictated by the original Saint Paul Street Paving program (previously known as RSVP) order list started in the 1990's.

**EXISTING CONDITIONS**

The residential streets were originally reconstructed in 1996 at the beginning of the Saint Paul Street Paving program (previously known as the Residential Street Vitality Program or RSVP). The typical residential roadway widths are 30-foot to 32-foot with concrete curb and gutters. Margaret Street widths are 40-foot between White Bear Avenue and McKnight Road.

Pavement condition index ranges for both project areas are between 20 to 79 (out of 100). There are known pavement distresses that are common for 25 to 30 years old streets. There are also visible indications of potholes patching, trench cutting and restoration from utility works, and sealing coating.

**PROPOSED IMPROVEMENTS**

The project seeks to improve the pavement conditions on the residential streets in the Cretin-Bayard Phase 2 (*bounded by Ford, Randolph, Cretin, and Cleveland*) and Fourth-Howard Phase 1 (*bounded by Old Hudson, Minnehaha, White Bear, and McKnight Road, excluding Third Street and Ruth Street from project limits*) project areas by resurfacing the roadway pavement and upgrading the pedestrian ramps.

Improvements to be made as part of the project include constructing new bituminous surfaced streets, upgrading existing pedestrian ramps to current American with Disabilities Act's (ADA) current standards and compliances, constructing new pedestrian ramps for existing sidewalk network connectivity, and boulevards landscaped with sod.

Impacted sidewalks will be replaced as necessary. Impacted storm sewers will be reconstructed as appropriate. Impacted signing and striping will be replaced as necessary.

Existing water main or services work in both project areas will be managed and performed by the SPRWS Department. Associated work is planned to be completed prior to the Residential Mill & Overlay construction.

Public art will be included in the project, following the procedures developed for street projects. Funding for public art is 1% of eligible project funds, in this case Street Reconstruction Bonds, as determined by the Office of Financial Services per the City's Public Art Ordinance.

### **ALTERNATES**

To do nothing would not fulfill the City's responsibility for maintaining reconstructed residential streets and extending their pavement life cycle. Without resurfacing, the pavement would continue to disintegrate beyond repair with structural issues. Maintenance costs would likely increase beyond normal means if not maintained properly on a regulated schedule.

### **POSITIVE BENEFITS**

General improvement to the street pavement surfaces and ride quality. The newly resurfaced roadways will improve the durability and drivability of the streets, reduce maintenance issues, and continue the City's efforts to improve the transportation system in Saint Paul. The upgraded and new pedestrian ramps will enhance neighborhood safety and movement for all users.

### **ADVERSE EFFECTS**

Normal problems associated with construction such as noise, dust, reduced access to the neighborhood, and general disruption will be present while the work is being done.

### **EFFECTS ON TREES**

This project will impact very few boulevard trees. Tree limbs, extending into the roadway and potentially impacted by construction machinery, will be pruned by the Department of Parks & Recreation's Forestry crews. The project will seek to minimize tree impacts where possible. New trees will be planted where there is sufficient space as part of the boulevard and median restoration following the City's master tree planting plan.

### **TIME SCHEDULE**

The project is anticipated to begin in the summer of 2024 and completed in the fall of 2024.

**COST ESTIMATE**

Construction	\$ 2,825,690.00
Engineering & Inspection	\$ 706,422.50
Contingency	\$ 423,853.50
<b>PROJECT TOTAL</b>	<b>\$ 3,955,966.00</b>

**ESTIMATED FINANCING**

Street Reconstruction Bonds	\$ 3,955,966.00
Assessments	\$ 0
<b>PROJECT TOTAL</b>	<b>\$ 3,955,966.00</b>

\* Assessments are estimated at \$986,000 and will be used to pay debt service on the street reconstruction bonds, not to finance direct project costs.

**SOURCE OF ADDITIONAL INFORMATION**

For additional information, contact the Project Engineer, Cheng Xiong, at 266-6168.

**SUMMARY AND RECOMMENDATION**

The Department of Public Works has ranked this a high priority project and the Engineering Recommendation is for approval of the project and financing.

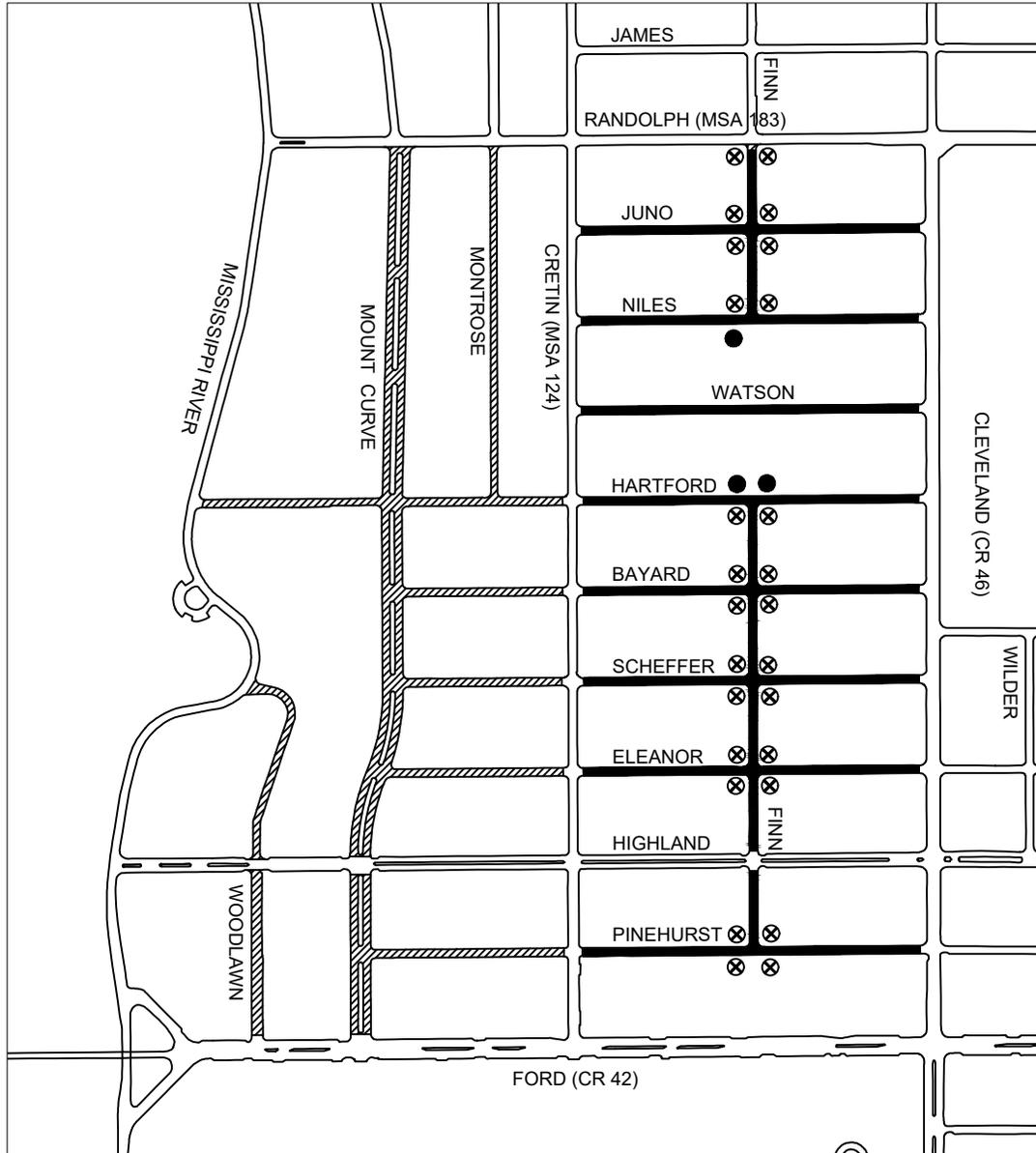
Respectfully submitted,

*Cheng Xiong*

Cheng Xiong, PE  
Public Works



City of Saint Paul  
 Department of Public Works  
 Street Design and Construction Division



\*INFORMATION AND SCOPE SUBJECT TO CHANGE



2023–2024

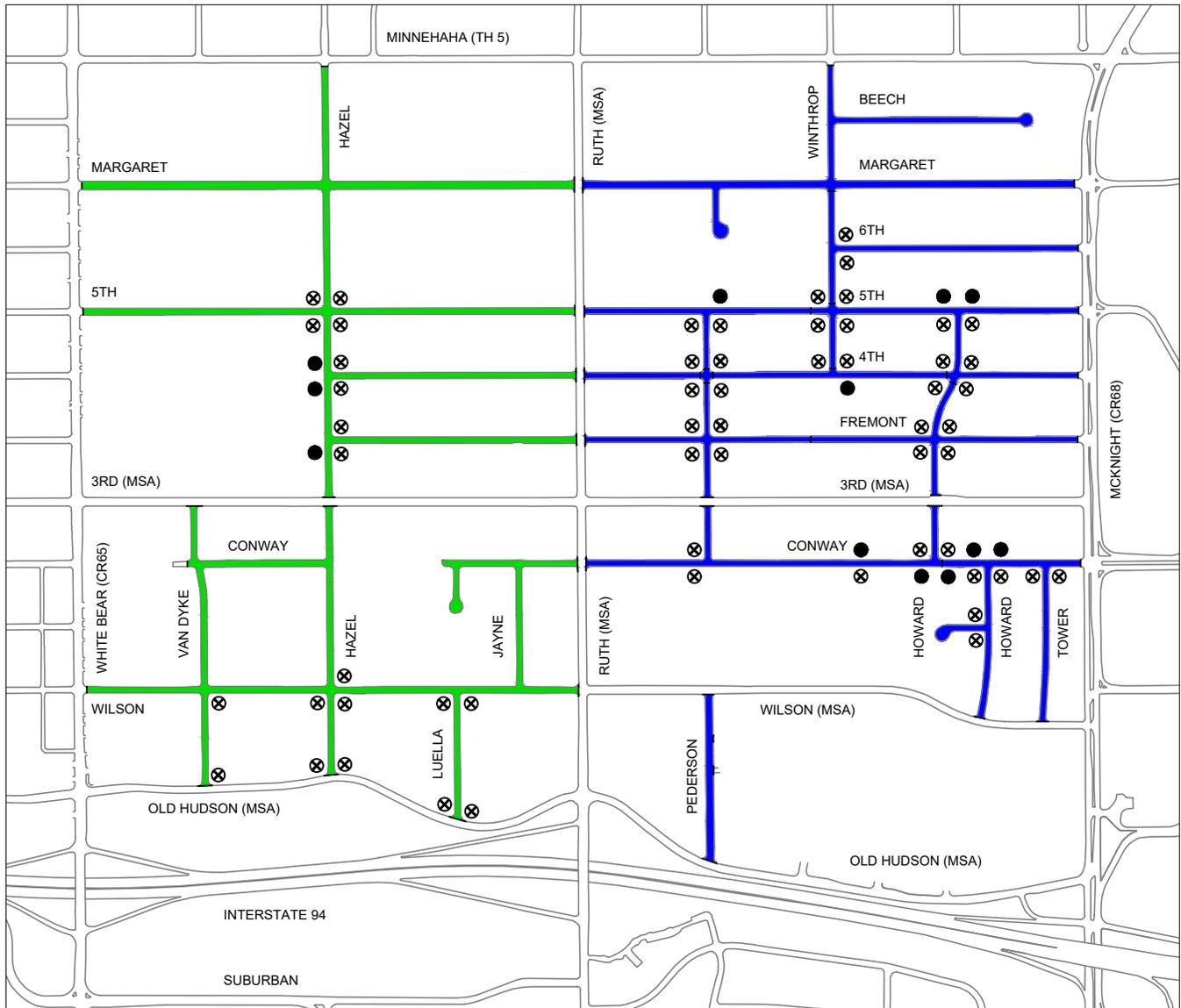
CRETIN/BAYARD RESIDENTIAL MILL & OVERLAY

-  MILL & OVERLAY IN 2023
-  MILL & OVERLAY IN 2024
-  NEW PEDRAMP(3 TOTAL)
-  PEDRAMP UPGRADE (26 TOTAL)

CITY PROJECT  
 24-P-8183  
 LENGTH = 13,200 ft.  
 WIDTH = 30 ft.



City of Saint Paul  
 Department of Public Works  
 Street Design and Construction Division



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2024–2025

FOURTH–HOWARD RESIDENTIAL MILL & OVERLAY

- SCOPE WORK IN 2024
- SCOPE WORK IN 2025
- NEW PEDRAMP (12 TOTAL)
- PEDRAMP UPGRADE (58 TOTAL)

CITY PROJECT  
 24-P-8183  
 L = 40,300 ft.  
 W = 30' / 32' / 40'