



## ***City Council Memorandum***

**To:** Mayor Fasbender & City Council Members

**From:** John Caven – Assistant City Engineer

**Date:** February 13, 2023

**Item:** Approve 2023 Pavement Management Projects in accordance with the South Metro Joint Powers Agreement

### **Council Action Requested:**

The council is requested to approve the 2023 Traffic Marking Program, 2023 Crack Seal Program, 2023 Seal Coat Program in accordance with the South Metro Joint Powers Agreement.

### **Background Information:**

Annually, the City of Burnsville administers a Joint Powers Agreement (JPA) for select pavement management projects. In 2022, 21 cities, counties, and townships, representing Dakota County and Scott County joined their seal coating, crack sealing, traffic marking, fog seal, and screening quantities in effort to a gain more favorable bid price. For the nominal cost of administering the agreement, Burnsville provided the representing cities, counties, and townships the preparation of bid documents, conducted bidding services, and made recommendations for award of contract. Represented cities, counties and townships were responsible for providing their individual estimation of quantities, project maps, coordination with the contractor on timing of the project, inspection of work, approval of quantities, and processes pay estimates.

Engineering staff reviewed the five available pavement management projects and compared the specifications, timelines, and unit costs to see if our existing programs could be effectively rolled into the JPA. After careful study, it was determined the traffic marking program, crack seal program and seal coat program could successfully join the JPA without adversely compromising product quality and timing while benefiting from the lower unit costs. Consequently, by joining the JPA more faded traffic markings, for example, can be refreshed on an annual basis. The City has been a part of the JPA in since 2011.

#### *Traffic Marking Program*

The program consists of re-painting up to 8 miles of faded centerline, fog lines, directional arrows, symbols, crosswalks and stop bars with appropriate yellow or white paint. The mainline striping adheres to the adopted 2007 Traffic Marking Policy and 2017 Crosswalk Policy but adds those existing streets commonly striped that contain high traffic volumes, unique geometry, or close proximity to schools.

#### *Crack Seal Program*

The program consists of crack sealing up to 10 miles of streets and one parking lot. Cracks greater than or equal to a quarter inch will be routed and sealed.

#### *Seal Coat Program*

The program consists of chip sealing 1.8 miles of roadway over the 2022-1 Infrastructure Improvement project area. The striping will be restored back to its current pattern.

**Financial Impact:**

In 2023, a similar number of cities and counties (21) are anticipated in joining the JPA. Unit prices will likely increase 5-10% due to inflation. Maintaining participation in the JPA with its large bid quantities will help buffer the imminent rise in costs.

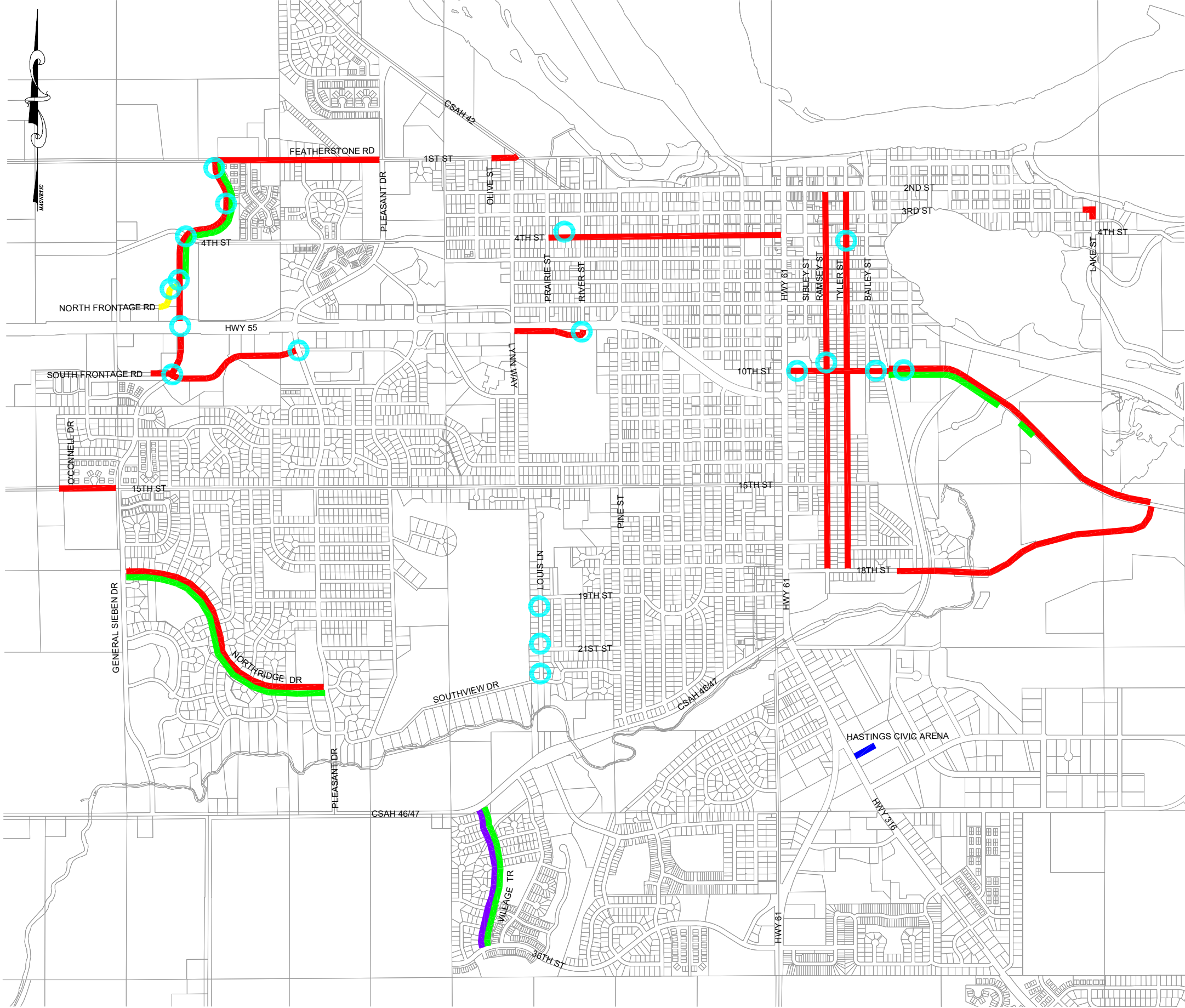
The cost estimate for the Traffic Marking Program remains below the budget amount of \$16,500. The cost estimate for the Crack Seal Program remains below the budget amount of \$15,000. These two programs will be paid out of the Street Marking Budget and Upkeep to Grounds budget respectively. The Seal Coat Program estimates to be \$78,000 paid by the 2022-1 Infrastructure Improvement project funds. Costs estimates include the 1.5% project administration fee paid to Burnsville for administering the bid process.

**Attachments:**

2023 Traffic Marking Plan

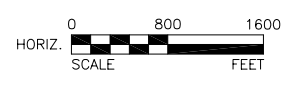
2023 Crack Seal Plan

2023 Seal Coat Plan



- █ CENTERLINE
- █ FOG LINES
- █ CENTERLINE AFTER CHIP SEAL THROUGH JPA VIII-08
- █ CENTERLINE AFTER SKIM PATCH BY OTHERS (SKIM PATCH TO BE COMPLETED IN JUNE OR JULY)
- █ CENTERLINE AFTER SANDBLASTING BY OTHERS (SANDBLASTED TO BE COMPLETED AS EARLY AS POSSIBLE)
- "HANDWORK" (IE. ARROWS, HATCHING)

- NOTES:
- 1) \$16,000 is maximum budget. Contact City prior to exceeding budget.
    - a) Order of Preference
      - 1) Village Trail (CSAH 46 to 36th St)
      - 2) Hastings Civic Arena
      - 3) 4th St (Prairie St to Hwy 61) and 15th St (General Sbn Dr to west end)
      - 4) General Sieben Dr
      - 5) Crosswalks & Stop Bars
      - 6) Long Lines
      - 7) Arrows
    - 2) Paint fog lines only as marked on plans.
    - 3) Timing Conflicts
      - a) Chip Seal (JPA). Village Trail (CSAH 46-36th St)
      - b) Hastings Civic Arena. Sandblast old striping by others. Timing: TBD
      - c) North Frontage Rd. Skim patching by others. Timing: June/July
    - 4) Crosswalks are to be painted 12" (parallel lines) or 2'x3' (blocks). Match existing size.
    - 5) Direct all questions to John Caven
      - a) 651.480.2369
      - b) jcaven@hastings mn.gov



REV.	BY	DATE	DESCRIPTION

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DAILY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

JOHN CAVEN, P.E.  
 LIC. NO. 47540      DATE 2/10/23

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**City of Hastings**  
 101 4th Street East  
 Hastings, MN 55033

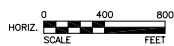
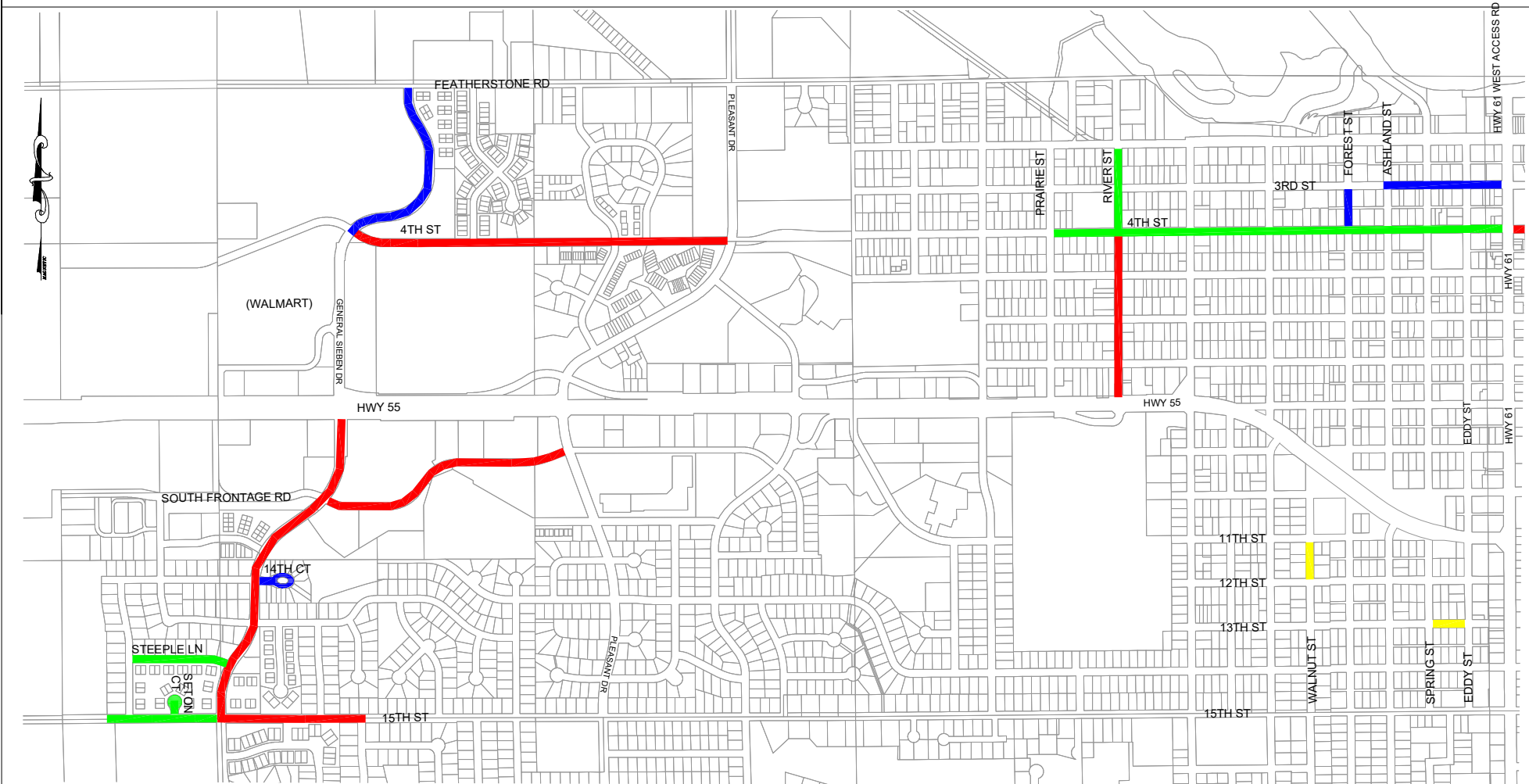
2023 TRAFFIC MARKING PLAN

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Notes:

- 1) \$14,700 is maximum budget. No payment will be made for crack seal applied over this budget amount.
- 2) The entire Area 1 must be crack sealed before proceeding to Area 2. Area 2 before Area 3, etc.
- 3) If budget runs out in the middle of an Area please document location and inform the City.
- 4) Contractor may start anywhere within a given Area. MNDOT 3725.
- 5) Rout & Seal new cracks. If sealed in past, then clean & seal is acceptable.
- 6) Any questions please call John Caven, City of Hastings 651.480.2369.

	AREA 1 TYP: 1ST TIME CRACK SEAL. SEAL COAT NOT APPLIED.
	AREA 2 TYP: 2ND TIME CRACK SEAL. SOME NEW CRACKS.
	AREA 3 TYP: 2ND TIME CRACK SEAL. SOME NEW CRACKS.
	AREA 4 TYP: 2ND/3RD TIME CRACK SEAL. MOSTLY CLEAN & SEAL.
	AREA 5 TYP: 2ND/3RD TIME CRACK SEAL. MOSTLY CLEAN & SEAL.



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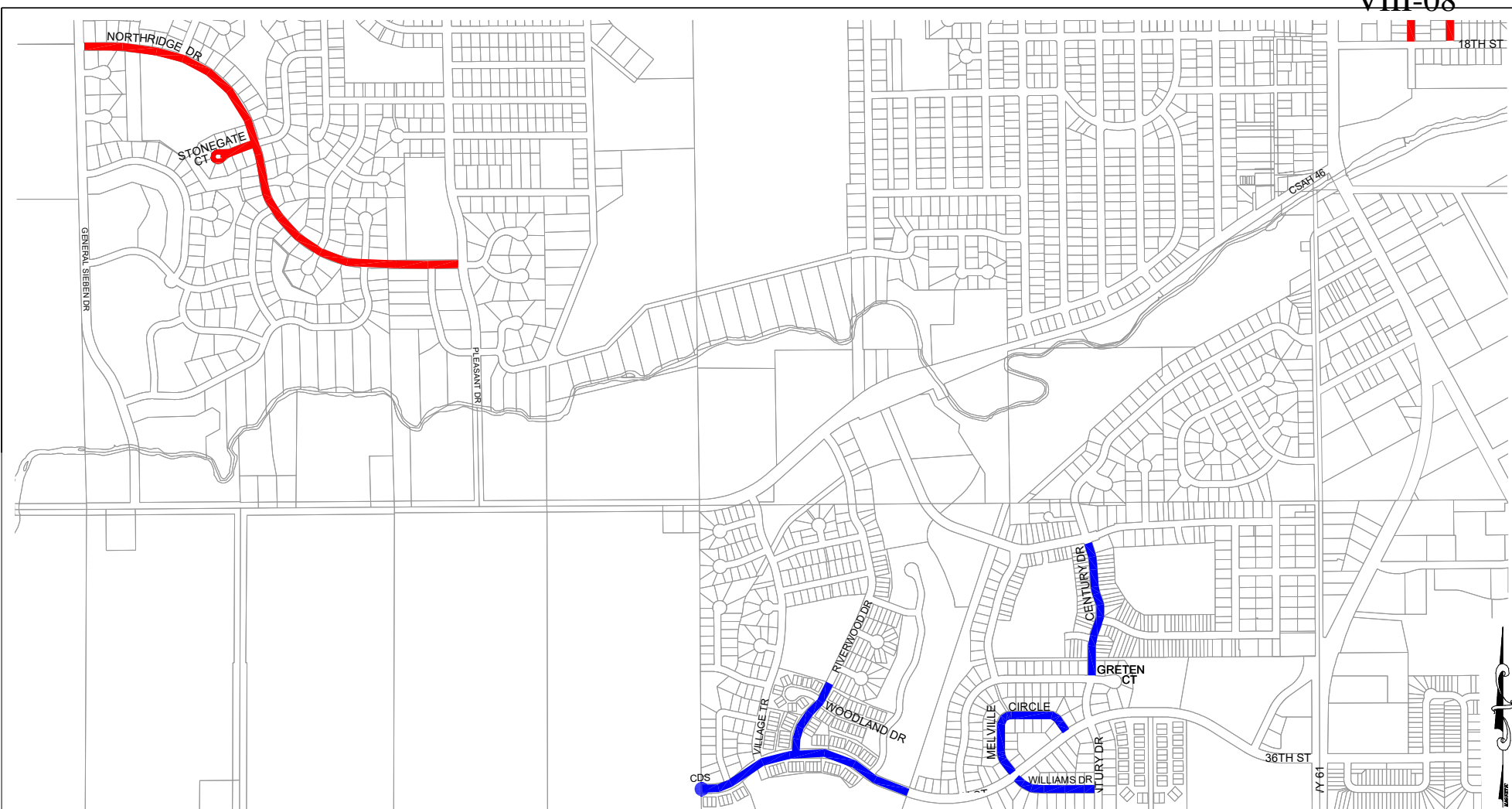


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2023 CRACK SEAL PROGRAM

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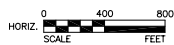




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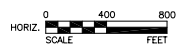
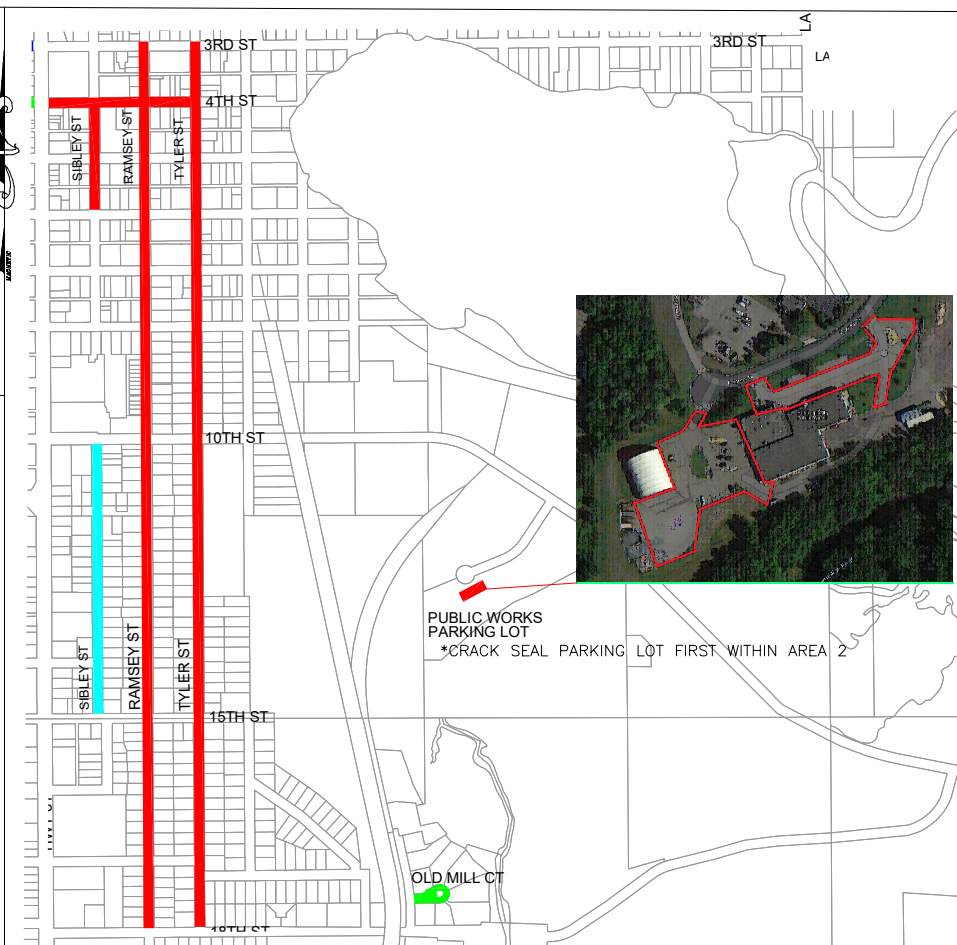
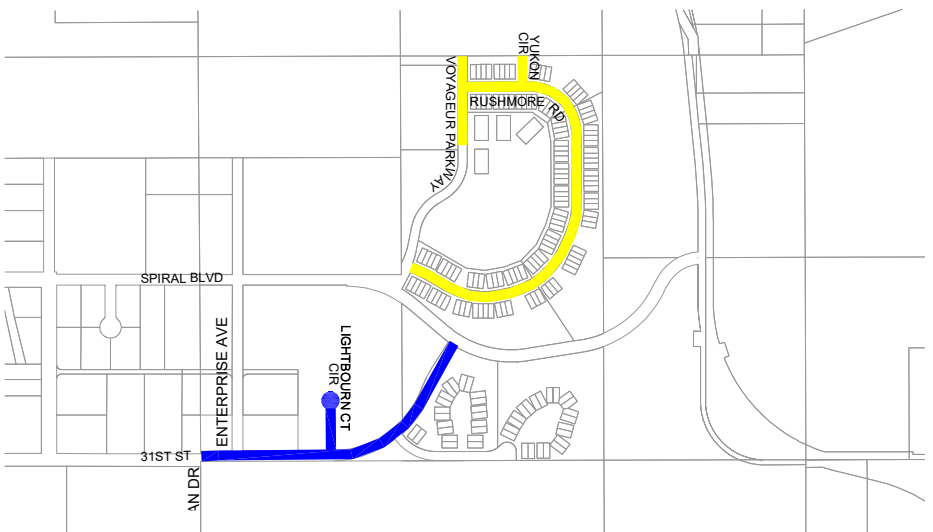
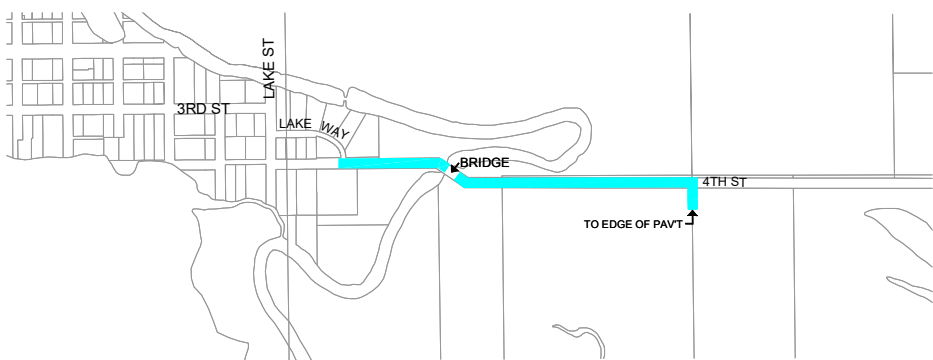
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2023 CRACK SEAL PROGRAM



VIII-08



## 2023 Seal Coat Program



- 5th St: State St through cul-de-sac
- 11th St: Ramsey St to Tyler St
- 13th St: Westview Dr to east end
- Ash St: 2nd St to 5th St
- Hillside St: Westview Dr to 13th St
- Lilac Ct: 13th St through cul-de-sac
- Park Ct: Park Ln through cul-de-sac
- Park Ln: Bahls Dr to 14th St
- Regency Ct: Riverwood Dr through cul-de-sac
- Riverwood Ct: Riverwood Dr through cul-de-sac

- Riverwood Dr: CSAH 46 to Woodland Dr
- Sherman Way: Village Tr to Riverwood Dr
- Teal Ct: Teal Way through cul-de-sac
- Teal Way: Village Tr to Riverwood Dr
- Union Ct: Village Tr through cul-de-sac
- Villa Ct: Village Tr through cul-de-sac
- Village Tr: CSAH 46 to 36th St
- Western Ct: Village Tr through cul-de-sac
- Westpointe Dr: Fallbrooke Dr to pavement change
- Winter Ct: Village Tr through cul-de-sac

