REQUEST FOR COUNCIL ACTION

Date: January 9, 2023 Item No.: 7.c

Department Approval

Eity Manager Approval

Item Description:

Approve Public Works 2023 Work Plan

BACKGROUND

2 Each year, Public Works staff monitors and evaluates the condition of City infrastructure for

development of ongoing maintenance and replacement needs. We use this information to develop

- 4 capital improvement plans and in the development of the annual budget request in these areas. We
- also work closely with Ramsey County and MnDOT on improvements to City infrastructure as a
- part of their road improvement projects within Roseville. The following are the improvements that
- we are recommending for the 2023 construction season within the city. The attached map
- 8 (Attachment A) shows both pavement improvements as well as utility improvements. The map also
- shows projects that are managed by Ramsey County, MnDOT, Met Council Environmental Services,
- watersheds and other utilities as some of these projects have impacts on City projects. The proposed
- work plan is consistent with the 20-year capital improvement plan and pavement management
- 12 program policies.
- The overall cost of the Public Works 2023 Work Plan is approximately \$6.5 million.
- Staff presented the Public Works 2023 Work Plan to the Public Works, Environment and
- 15 Transportation Commission on November 22, 2022. The meeting minutes are included in
- 16 Attachment G.

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- 1. Pavement Management Program Projects: Each year, the Public Works Department evaluates infrastructure needs based on the City's Pavement Management Program and assessment of utility infrastructure. Streets in marginal condition are recommended for major maintenance by mill and overlay. Streets in poor condition that do not meet the City standard for street construction are recommended for reconstruction. The streets shown in Attachment A will be included in this year's Pavement Management Project (PMP). The 6.9 miles of roads are proposed to be milled and overlaid. Spot curb replacements are also done at this time, but only where there are significant structural issues with the in-place curb or significant settling.
- These pavement-resurfacing projects are proposed to be financed through our street infrastructure fund. No Municipal State Aid (MSA) roads will be resurfaced in 2023. After receiving bids for these projects, we will request that the City Council award the bid to the lowest responsible bidder.
- 9 **Reconstruction:** No roads are proposed to be reconstructed in 2023.
- 2. <u>Pathways</u>: A new pathway will be constructed along the east side of Lexington Avenue between TH 36 and County Road B2. The new pathway will be an 8-foot wide bituminous trail.
- A new sidewalk will be installed on the east side of Cleveland Avenue from Iona Lane, extending 600 feet north. This sidewalk will complete a gap in the sidewalk network that was

- created when Colder Product Corporation built a sidewalk as part of their new construction a few years ago.
 - A new pathway, Twin Lakes Trail 2, will be constructed from Terrace Drive into Oasis Park.
- A new pathway, Marion Street Phase 2, will be constructed on the west side of Marion Street from Larpenteur Avenue to the cul-de-sac. The new pathway will connect to the first phase, which was completed this past fall, in conjunction with the Enclave development and make a connection to Unity Park. This will complete the pathway envisioned in the Rice-Larpenteur Visioning Plan. Funding for this project is from Community Development Block Grant Funds through Ramsey County.
 - Pathways in Lexington Park and along County Road B will be resurfaced.
 - The parking lot at Lexington Park will be resurfaced.

3. Utility Infrastructure:

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- **Sanitary Sewer Lining:** There will be no sewer lining project in 2023. City staff will be utilizing this year to develop a specialized lining project in 2024 to address high risk crossings under major county or state highways such as TH 36, I35W and Snelling Avenue.
- **Pipe Replacements/Repairs**: Staff evaluates sanitary and water main replacement needs in our pavement replacement areas as well as utility infrastructure needs in County and State project areas. To date, City staff has no projects planned for 2023.
- **Miscellaneous Upgrades**: Staff will be doing some upgrades to the SCADA system to provide additional resiliency to the system. Shallow water services within the PMP project will be insulated.
- Water Tower: The interior of the water tower will be re-painted to extend the life of the tower.
- **Lift Stations**: The Long Lake Lift Station, located on Long Lake Road south of County Road D, will be replaced in 2023 with a grinder pump lift station. The new lift station will be relocated further from the road to protect the lift station and to make it safer to maintain. It also places the lift station on higher ground as it is currently subject to street flooding.
- Staff will begin work with our design consultant on the Dale/Owasso Lift Station located at Dale Street and South Owasso Boulevard for future replacement in 2024. The lift station will be rehabbed and a new backup emergency generator will be installed.
- **Storm Sewer System Improvements:** Staff continues to analyze the existing drainage systems and localized flooding issues and is identifying mitigation projects. Staff is now working on developing a 2023 drainage improvement project to alleviate some of these flooding concerns. Staff has already identified several projects for 2023. Some of the projects include:
 - Pavement Management Storm Water Upgrades: Miscellaneous storm sewer upgrades.
 - Villa Park Sediment Pond improvements and dredging
 - Concordia Meadows Pond Improvements
 - County Road D Outlet Repair.
- **4.** <u>Sustainability/Recycling:</u> City staff plans to work on the following programs and initiatives over the next year to help support sustainability and increase recycling:
 - Energy Action Plan continued implementation post-Partners in Energy "graduation"
 - o Focus on faith organization outreach
 - Less Mow May education & outreach

B3 & GreenStep Cities updates and expansion B:
D' 41 C (' 1'1') 1 (
Bi-monthly Sustainability newsletter
 Voluntary energy benchmarking program
 Sustainable land use incentives implementation with Community Development
 Community outreach/sustainability event planning Earth Day Rice/Larpenteur Alliance – Community in Bloom, Summer Block Party Taste of Rosefest and Tapped & Uncorked
• Inflation Reduction Act education & outreach (residents & businesses)
Bike planning
• Climate Action Plan (MPCA Grant Application process)
• Prepare for Ramsey County curbside organics pickup program (late 2023/early 2024)
 Evaluate and expand educational opportunities for recycling in parks
Other Improvements:
Retaining Wall Replacement: The retaining wall on South McCarrons Boulevard between Glenwood Ave and Woodruff Avenue will be replaced with a soil nail reinforced wall.
Other Agency Projects:
Minnesota Department of Transportation (MnDOT):
 Signal Replacement at Hamline Avenue and West Bound TH 36 ramps Access to Cederholm will be accommodated at all times. Intersection will be a 4-way stop for the majority of the improvements. Work will begin in September 2023.
 TH 36 Ramp and Fairview Avenue Improvements Improvements to reduce queuing onto TH 36. Some ramp closures are anticipated during the project. Work will begin in June 2023.
Ramsey County
 County Road D Resurfacing Highcrest Avenue – Old Hwy 8.

Xcel Gas

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• Xcel Gas will be replacing power poles along the large transmission line between the substation by the water tower. They will use existing footings and the poles will be the same height. Work would start in late February and be completed by the Fall 2023.

POLICY OBJECTIVE

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It is City policy to keep City-owned infrastructure in good operating condition and to keep systems operating in a safe condition.

BUDGET IMPLICATIONS

- Staff is developing preliminary cost estimates for the projects at this time. We anticipate the total work plan cost to be approximately \$6.5 million with City cost around \$6 million.
 - The Street Infrastructure Fund supports the local street Mill and Overlay program.
 - The following projects will be funded from the City's MSA account:
 - TH 36/Fairview Ramp project
 - TH 36/Hamline Ramp project
 - McCarrons Retaining Wall
 - Cleveland Pathway
 - Lexington Pathway
 - Utility improvements are funded from the respective Utility enterprise funds.
- The Marion Pathway project will be funded using grant funds.
- The Twin Lakes Trail Phase 2 project will be funded with developer funds, pathway funds and storm sewer utility funds.
- 129 Crack sealing and major patching are funded from the street maintenance budget. This budget is 130 supported by the general fund tax levy and MSA maintenance allocation. Staff recommends funding 131 a program consistent with our pavement maintenance policies.
- By taking action now, the Council will be authorizing staff to work on plans for the projects as
- described and to advertise for bids once plans are finished. As project bids are opened, staff will
- bring individual contracts to the City Council for approval. A detailed cost breakdown will be
- included with those Council Actions.

RACIAL EQUITY IMPACT SUMMARY

- The overall projects and programs identified in the 2023 Public Works Work Plan should benefit the City as a whole with no negative impacts to historically disadvantaged communities. All street projects include improvements to curb ramps within the project area to latest standards which should provide better access for individuals with disabilities.
 - The four new pathway projects proposed were all chosen to enhance walkability in areas with the most need. These projects should be an overall benefit to historically disadvantaged communities who a more likely to use these pathways:
 - Marion Street Pathway Provides new pedestrian connection to multi-family housing that serves the highest minority census block (62%) within the city. The new pathway will make connections to the existing sidewalk network and provide safer access to two parks and better connections to transit on Larpenteur Avenue.
 - Twin Lakes Trail Phase 2 The second phase of the trail project will connect two low income multi-family housing units with better access to Oasis Park.
 - The Lexington Pathway project will provide better access to transit and for high school students accessing Roseville Area High School.

• The Cleveland Pathway project completes a gap in the sidewalk network. The sidewalk will now better connect nearby transit to local jobs.

154 STAFF RECOMMENDATION

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These improvements are recommended for construction in 2023. Additional utility improvements may be identified at a later date and brought to the Council for authorization. All projects will come back to the City Council for further action.

REQUESTED COUNCIL ACTION

159 Consider motion to approve the Public Works 2023 Work Plan for street and utility improvements.

Prepared by: Jesse Freihammer, Public Works Director Attachments: A: 2023 Proposed All Project Map

B: Proposed PMP Projects

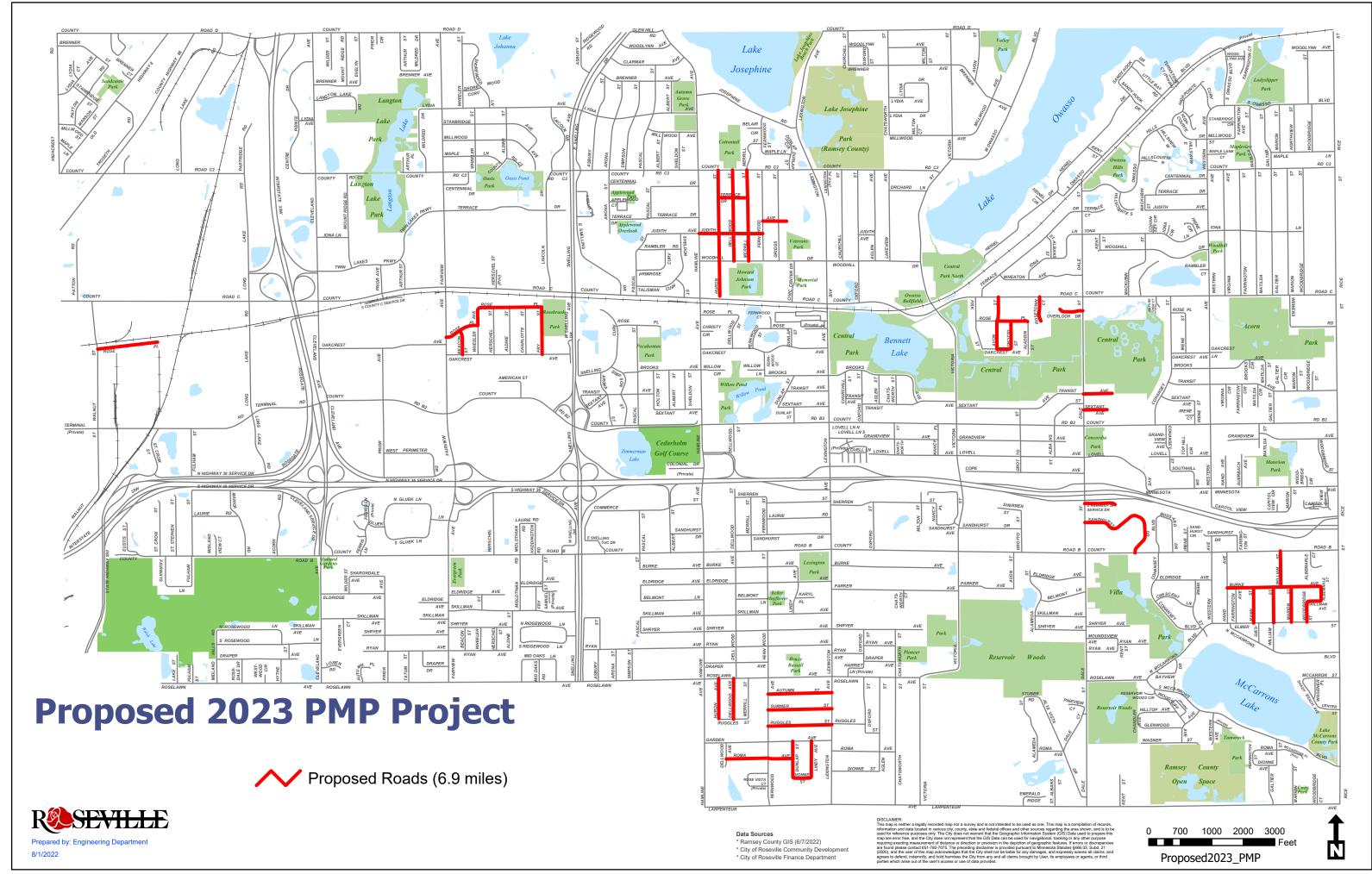
C: Proposed Watermain ProjectsD: Proposed Sanitary ProjectsE: Proposed Storm ProjectsF: Proposed Pathway Projects

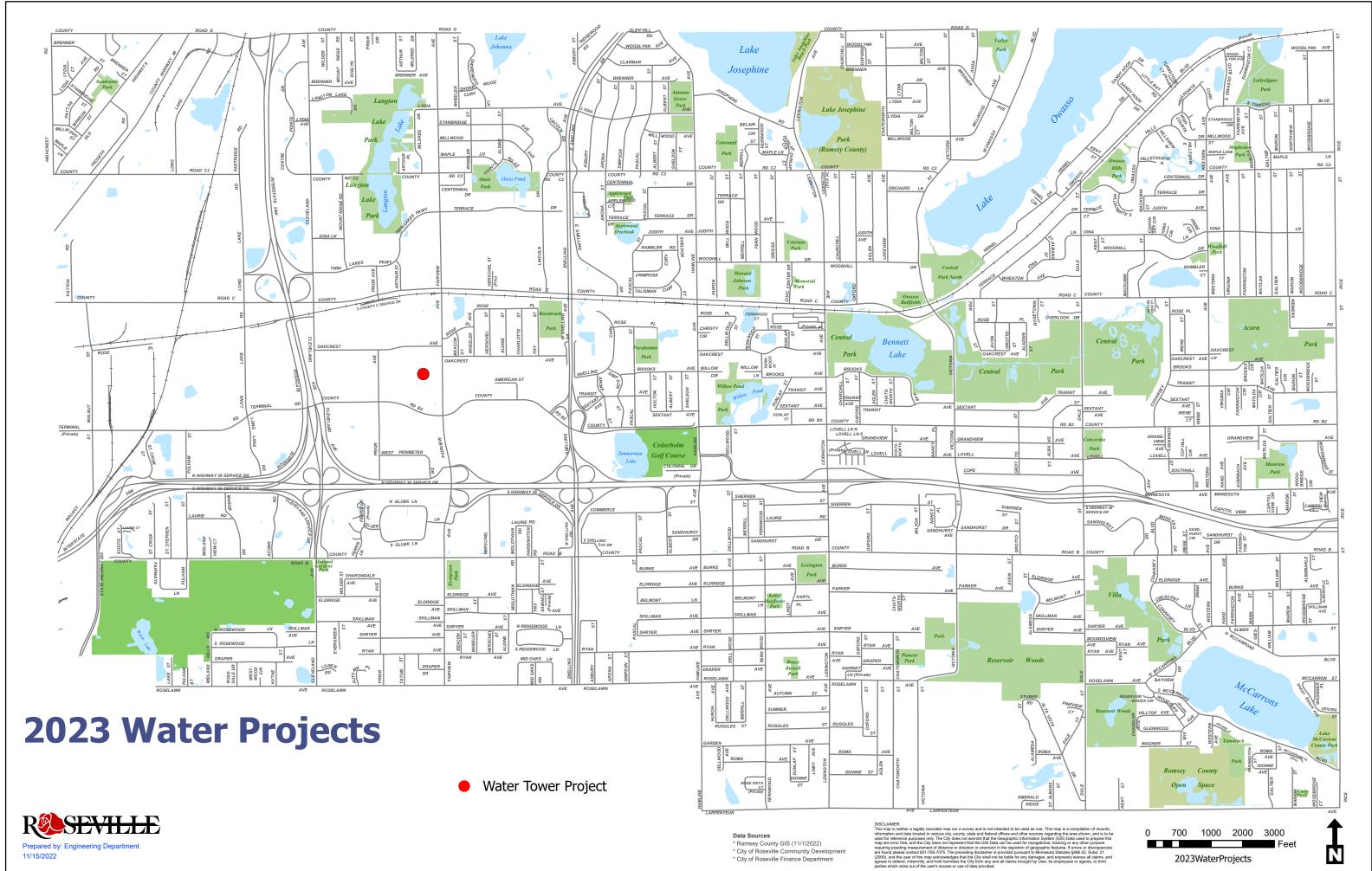
G: PWETC Minutes H: Presentation

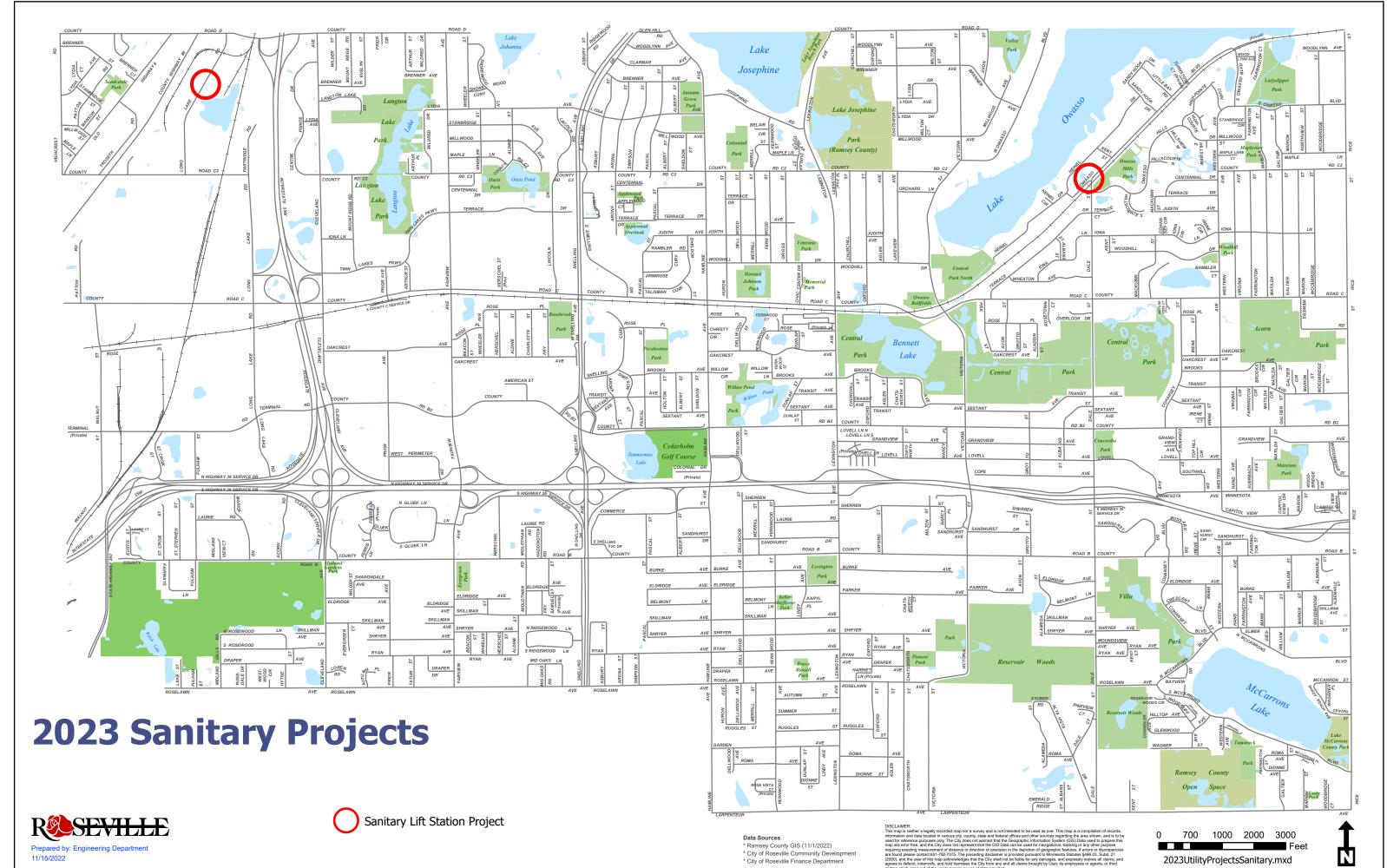
Attachment A Ramsey County Cty Rd D. Project Lake Josephine Replacement Project Twin Lakes Trail Phase 2 Lake Water Tower Painting Project Hamline **\$**ignal Highway 36 & Replacement Fairview Signal Project City Mill & Overlay **2023 All Projects** County Project Retaining Wall. MnDOT Project https://www.cityofroseville.com/Projects Signal Improvement New Pathway Pathway Maintenance Parking Lot Retaining Wall RESEVILLE Sanitary Sewer Project 700 1000 2000 3000 * Ramsey County GIS (10/4/2022)

* City of Roseville Community Development

* City of Roseville Finance Department Storm Project Proposed2023_AllProjectsLabels Water Tower Project





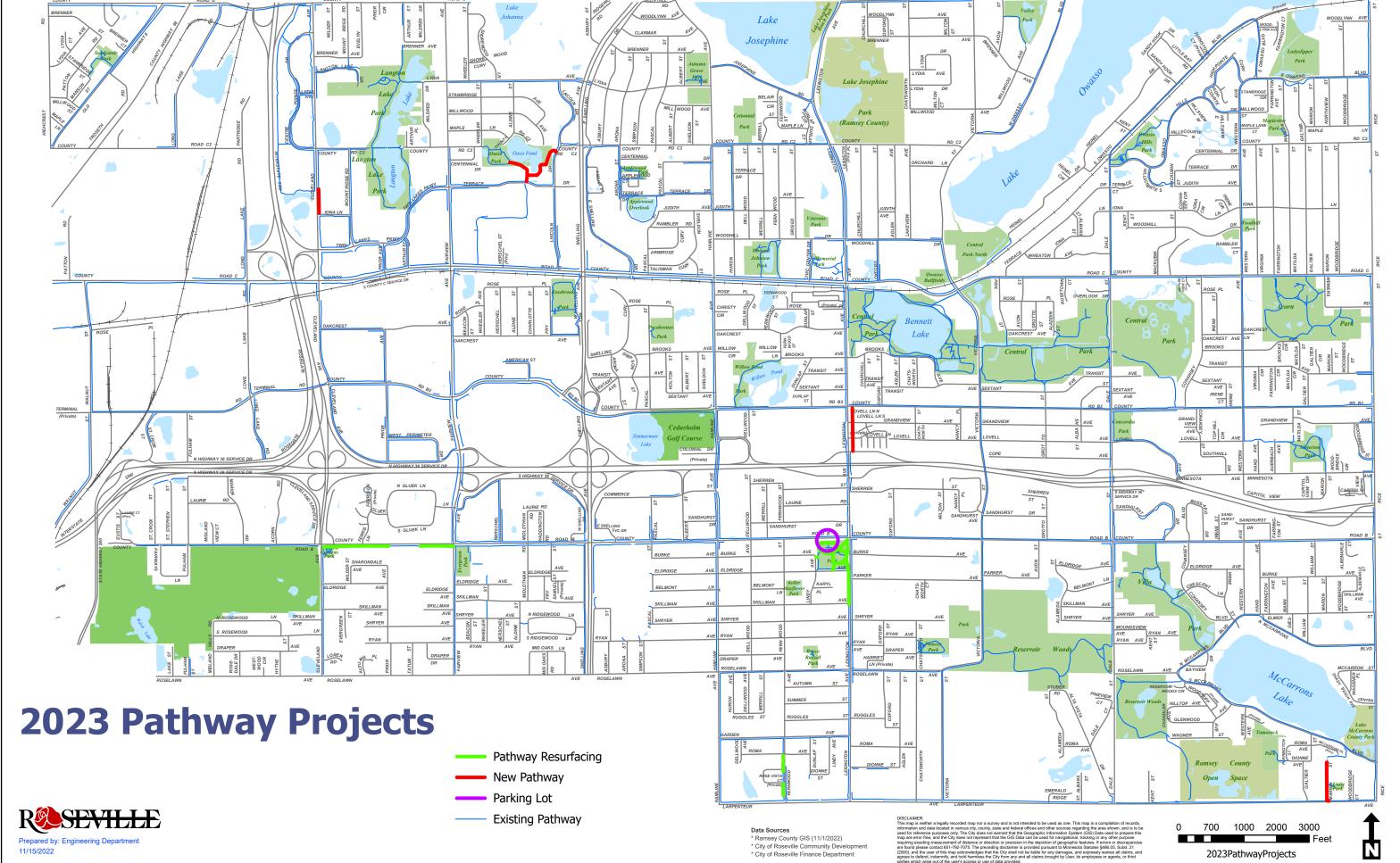


2023DrainageProjects.mxd



Attachment F

2023PathwayProjects



Roseville Public Works, Environment and Transportation Commission Excerpt of Meeting Minutes

Tuesday, November 22, 2022, at 6:30 p.m. City Council Chambers, 2660 Civic Center Drive Roseville, Minnesota 55113

1 1. Public Works 2023 Work Plan 2 Public Works Director Jesse Freihammer explained that each year Public Works 3 staff monitor and evaluate the condition of City infrastructure for development of 4 ongoing maintenance and replacement needs plans. He presented the 2023 Work 5 Plan to the Commission and asked for comments. 6 Member Hodder asked how the City's pavement management reserves look like as 7 far as the budget over the next few years. 8 Mr. Freihammer indicated short term it is doing okay. Long term, it will still need 9 to be a discussion item, but the City Council does keep putting little chunks of 10 money into it and the department has been consistent on what is being spent. He 11 noted the City is good for the next ten years, longer term than that, certainly 12 depending on which way inflation goes with costs like that the reserves may need to be re-evaluated. 13 14 Chair Ficek inquired, for the Hamline/36 replacement he assumed this is trying to 15 be done before work starts on Fairview so that, if traffic diverts, it can go through 16 and he wondered if this will be turned into an all-way stop for the school when lots 17 of people are going through there. 18 Mr. Freihammer explained that project was supposed to happen this fall; both are 19 MnDOT projects and there is a chance for delay, but he did know MnDOT wanted 20 to start that early and he knew it would be before school. The County was confident 21 that the all-way stop may work pretty solid and were not concerned about it being 22 delayed for vehicles. A temporary signal was not justified for that. 23 Chair Ficek indicated Mr. Freihammer mentioned about doing services for Falcon Heights as well and might get up to one thousand hours or half a full-time staff 24 25 person and he wondered what the City's agreement is with Falcon Heights and how 26 that works.

27 Mr. Freihammer reviewed the Falcon Heights agreement and services being 28 performed for them. Chair Ficek indicated there are a lot of funding opportunities out there and he 29 30 wondered if the City is applying for any of them. 31 Mr. Freihammer explained a lot of the big stuff, Roseville, as an individual project is a little more difficult to fund for. Staff is looking for opportunities where 32 available and the City has been working with the County on some of the different 33 34 funding options. He noted the City just got funding from Ramsey County and will 35 be doing a study of critical corridors.

Attachment H

2023 Work Plan Public Works Department



2022 Accomplishments

Developments/Permits

- Right of Way Permits 246
- New Erosion Control Permits 44
 - Currently opened sites 42
- Erosion Control Inspections 496
- Building Permits Reviewed 295
- Traffic Studies for Developments 2
- Plat Development Reviews 4

Miscellaneous

- Civic Campus Master Plan Study
- Easement & ROW Vacations 6
- Engineering services for Falcon Heights
 - 643 hours

Construction

- Resurfaced 9.50 miles of roadway
- Resurfaced 0.40 miles of pathways
- Install 4 new pathway segments resulting in 0.5 miles of new pathways
- Replaced 0.50 miles of watermain
- Lined 5.9 miles of sanitary sewer
- Completed 1 major sewer repair
- Installed new underground storage (Simpson Street & Cty. Rd C2)
- Resurfaced 3 parking lots

Maintenance

- Meter Replacements 729
 - 85-90% were radio issues.
- Watermain Breaks 38
- Plow Events (2021-2022 Winter) - 21





2022 Accomplishments

Sustainability

- Implemented the city's Energy Action Plan
- Created a Sustainable Steward Award Program to recognize properties that make energy efficient improvements
- Maintained GreenStep Cities Step 5
- Created a bi-monthly newsletter that focuses on Sustainability.
- Prioritized public property locations for potential installation of EV chargers
- Added Tapped and Uncorked as a Zero Waste Event
- Attended several events to promote sustainability (Earth Day, Rice/Larpenteur Alliance – Community in Bloom, Summer Block Party, Taste of Rosefest & LWV EV Fair)
- Created an EV resource page on the city website for residents
- Developed sustainability branding/logo for the city alongside Sustainable Steward Award Program
- Worked with Community Development and HKGI to add new sustainable land use incentive checklist to phase 2 zoning code update

Energy Action Plan Stats

- Contacted over 3,000 households, including 1,500 low-income households, with information about energy saving rebates, the Energy Assistance Program, and Home Energy Squad opportunities
- Contacted over 100 businesses and visited 60 in person to promote free energy audits for businesses
- Attended 7 local events throughout the year to promote energy efficiency & renewable energy
- Roseville leads cities participating in the <u>Intercity Home Energy Squad</u>
 Challenge in Home Energy Squad visits per capita as of December 2022
- Gave away over 20 free HES visits to residents (and counting) to help Xcel Energy and CEE promote Home Energy Squad
- · Distributed over 500 flyers to local food shelves and food distribution events
- Worked to translate our Energy Burden flyer into Nepali for local Bhutanese immigrants



Work Plan Introduction



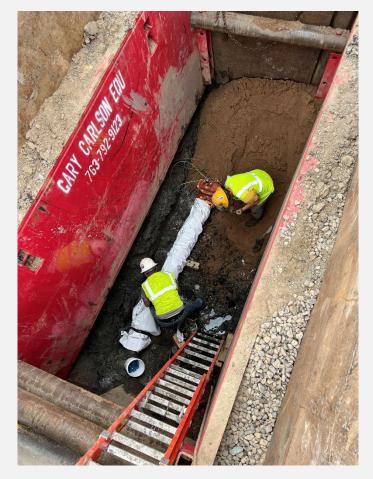






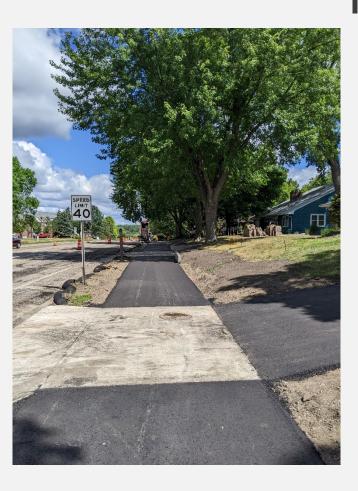


Work Plan Introduction

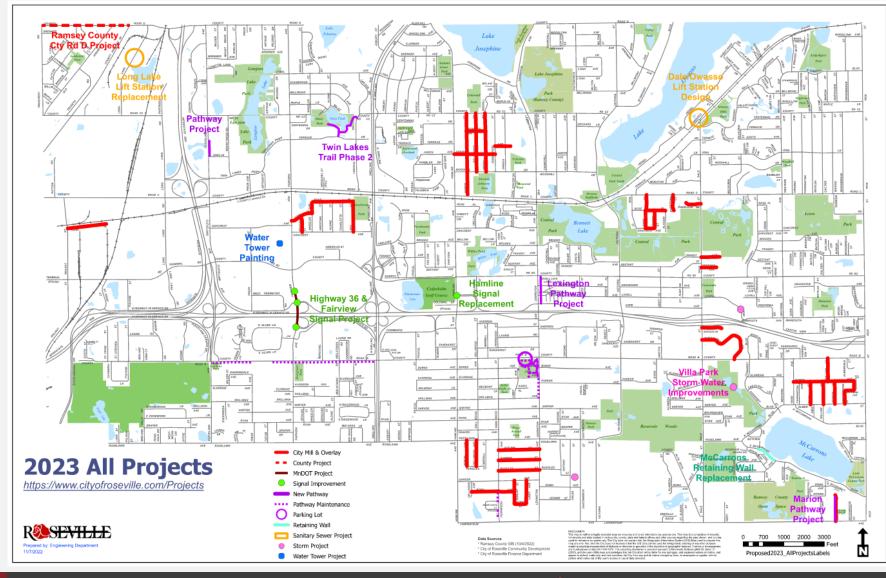








Work Plan Introduction



Work Plan

The work plan addresses infrastructure maintenance needs and improvement needs in all functional groups within public works:

- · Pavement Management
- Pathway, Sidewalks and Trails
- Water Distribution System
- Sanitary Sewer System
- · Storm Water System
- McCarrons Retaining Wall
- Sustainability/Recycling
- Other Agency Projects in Roseville



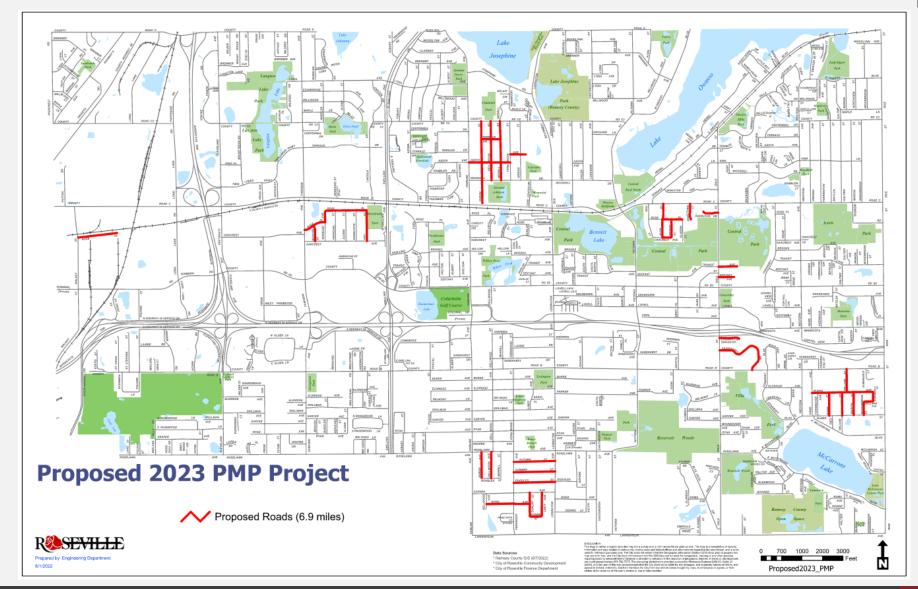
2023 Pavement Management Plan

Mill and Overlay Projects

- 6.9 miles of Local Roads
- No Municipal State Aid

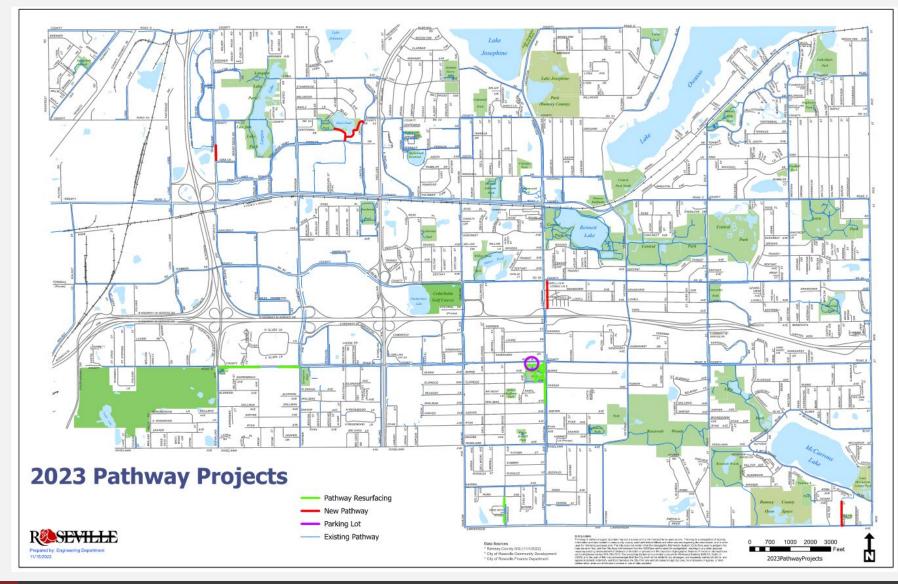
Miscellaneous

• ADA ped ramp upgrades





Pathway Improvements



Pathway Improvements

New Pathways – 0.41 miles

- Twin Lakes Trail Phase 2
 - Connect existing Twin Lakes Trail pathway from Terrace into Oasis Park.
- Lexington Avenue
 - Fill gap in network between TH 36 and County Road B2
- Marion Street Pathway Phase 2
 - Connect existing Marion Street pathway form the cul-de-sac to Larpenteur Avenue.
- Cleveland Avenue
 - Fill gap in network between Iona Avenue and Colder Products

Resurfacing – 2.21 miles

- · County Road B, Lexington Avenue
- Lexington Park
- Lexington Park Parking Lot

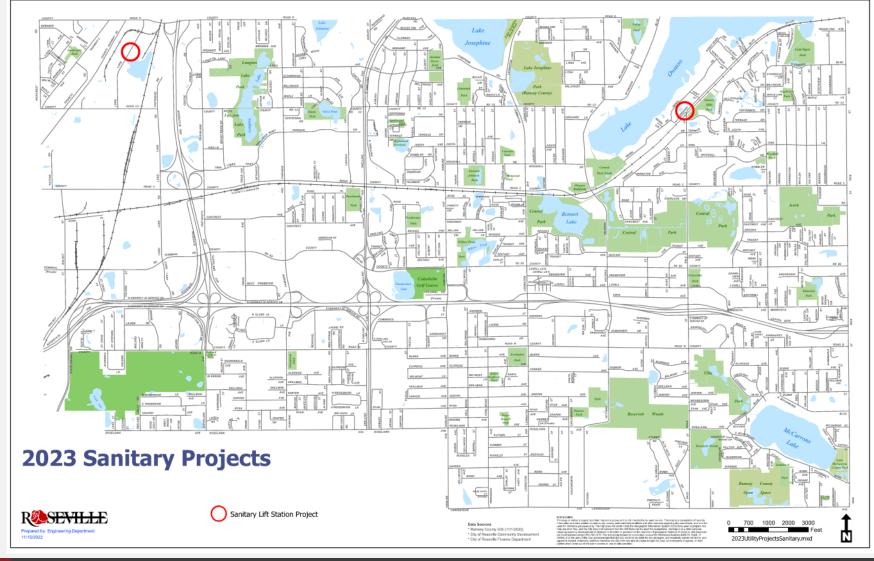


Twin Lakes Trail Phase 2





Sanitary Sewer Projects



Long Lake Lift Station

Replacengenter lift station and new force main to replace existing lift station.

Dale/Owasso Lift Station Replacement

Begin design process for upgrading the lift station which would include upgrading pumps, controls and adding a backup emergency generator. Likely late 2024 construction.

Sanitary Sewer Lining

No sewer lining

Miscellaneous Sewer Replacement

Miscellaneous PMP upgrades



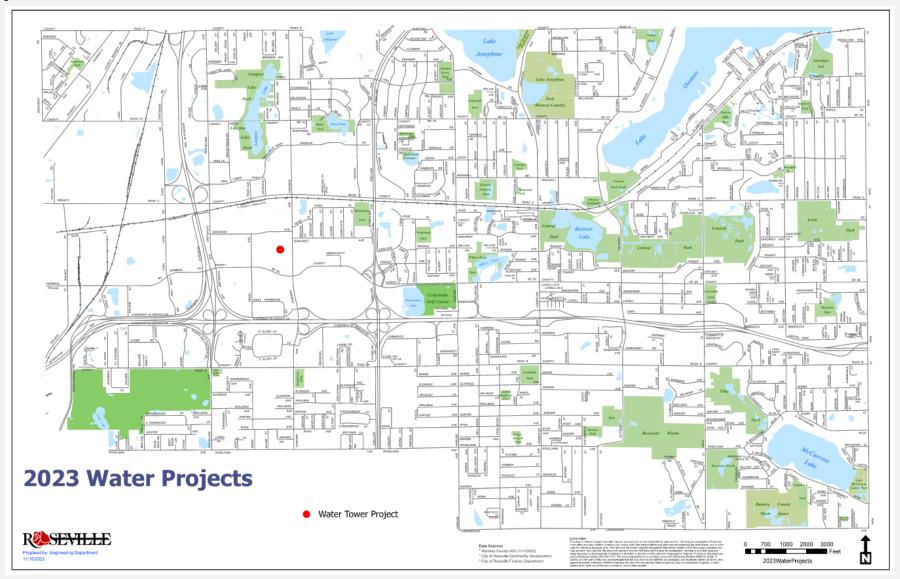
Water Distribution System Projects

Watermain Replacement

No watermain replacement in 2023

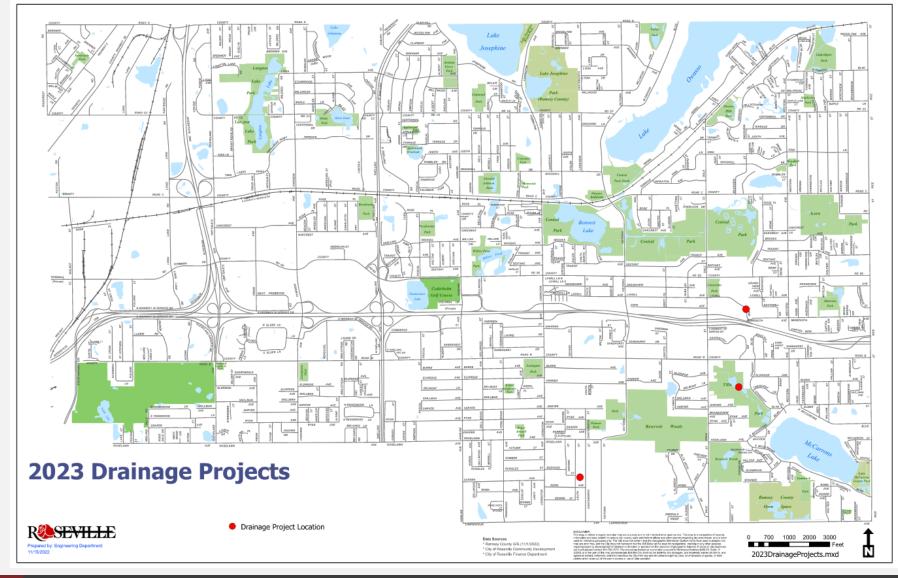
Watermain System

- Water Service Insulation with PMP
- Water Tower Painting (Inside Tank)
- SCADA upgrades
- Misc. Hydrant Repairs





Storm Sewer System Improvements



Miscellaneous Storm Sewer Replacement

Miscellaneous upgrades during PMP

County Road D Outlet Repair

Storm Pond Upgrades

Villa Park Sediment Pond improvements and dredging

Concordia Meadows pond improvement

Miscellaneous

Improvement and expansion of city's drainage, flooding & water quality models

Partner with the U of M on research topics: street sweeping, storm pond functionality & enhanced stormwater treatment

Partner with Rice Creek Watershed District on Resilience Planning



South McCarrons Retaining Wall Replacement

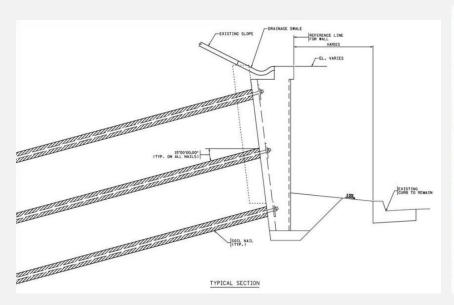






Along I-35W NB under I-694, Arden Hills October 2019

- Project will replace existing failing wall
- Original wall built in 1993
- · New wall will be reinforced with soil nails
- New poured in place wall to create new surface
- Surface will be textured to look like the old wall
- 8-12 weeks of construction
- · Municipal State Aid Funded
- ~\$750,000







Environmental/Recycling/Sustainability

Sustainability

- Energy Action Plan continue implementation post-Partners in Energy "graduation"
 - Focus on faith organization outreach
- · Less Mow May education & outreach
- Roseville Sustainable Steward Award Program
- · B3 & GreenStep Cities updates and expansion
- · Bi-monthly Sustainability newsletter
- Voluntary energy benchmarking program
- Sustainable land use incentives implementation with Community Development
- Community outreach & sustainability event planning
 - Earth Day
 - Rice/Larpenteur Alliance Community in Bloom, Summer Block Party
 - Taste of Rosefest, Tapped & Uncorked
- Inflation Reduction Act education & outreach (residents & businesses)
- Bike planning
- Climate Action Plan (MPCA Grant Application process)

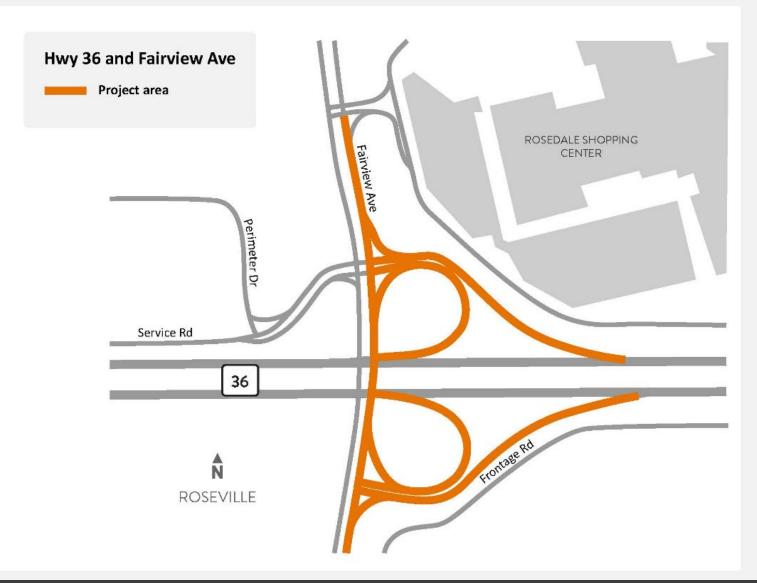
Recycling

- Prepare for Ramsey County curbside organics pickup program (late 2023/early 2024)
- Evaluate and expand educational opportunities for recycling in parks





Other Agency Projects within Roseville



TH 36 Ramp & Fairview Avenue Improvements

- Work will begin June 2023-August 2023
- Rebuild and realign the ramps at Hwy 36 and Fairview Ave.
- Reconstruct catch basins and drainage pipe along the new alignment
- Remove the concrete median and relocate signals to allow for the through movement of NB Fairview Ave. traffic to the Rosedale Mall's west entrance
- Reconstruct existing sidewalk along the roadway to meet Americans with Disability Act (ADA) standards





Other Agency Projects within Roseville

Minnesota Department of Transportation

- Signal Replacement at Hamline Avenue and West Bound TH 36 ramps.
 - Access to Cederholm will be accommodated at all times.
 - Intersection will be a 4 way stop for the majority of the improvements.
 - Work will begin in April 2023
- TH 36 Ramp & Fairview Avenue Improvements
 - Work will begin June 2023-August 2023



Ramsey County Public Works

- County Road D Resurfacing
 - Highcrest Avenue Old Hwy 8
 - 4 Lane to 3 lane conversion.
 - Done in conjunction with Hennepin County Road 93 (37th Ave NE) to the west.



Metropolitan Council Environmental Services

No projects planned at this time.



Watersheds

- Capitol Region Watershed District
 - Villa Park Sediment Pond Improvements (in conjunction with Roseville)
 - Trout Brook Interceptor Flood Modeling Project
 - Targeted Watershed Program (installing raingardens in the McCarrons Lake area)
- Rice Creek Watershed District
 - · Community Resilience Workshops
- Ramsey-Washington Metro Watershed District
 - No projects at this time



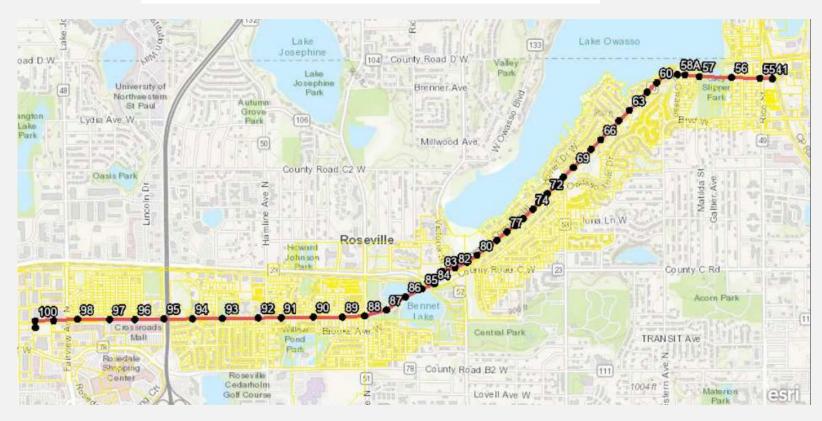






Other Agency Projects within Roseville





Xcel Pole Replacement Project

- Will replace the painted poles along the large transmission line between the substation by the water tower to the substation on Rice Street.
- They will use existing footings and the poles will be the same height.
- Work would start in late February and be completed by the Fall 2023.
- Each pole replacement will take approximately 1 week.
- Xcel will do a council presentation later in January.
- Xcel will be holding an open house early in 2023 and be notifying adjacent property owners.



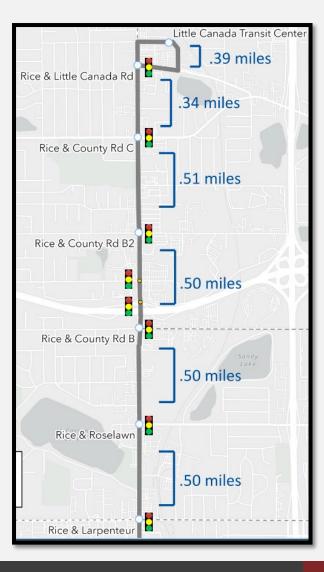
Other Miscellaneous Projects & Future Projects Under Planning or Design

Miscellaneous Project

- Local Roads Speed Limit Evaluation
 - PWETC will likely provide recommendation summer of 2023
- Snelling & County Road B Pedestrian Improvement Evaluation
 - Ramsey County Critical Corridor Funding
- Snelling Avenue Signal Battery Backup Installation
 - Working with MnDOT to install this system at Lydia and C2
 - Addresses safety issues by allowing signals to go to flashing red during a power failure instead of going dark.
- Begin looking at renewing water agreements with St. Paul Regional Water Services and Arden Hills
 - Both agreements expire at the end of 2024

Projects in Planning

- G Line Bus Rapid Transit
 - Rice Street, Larpenteur to County Road C2 (Roseville Segment)
 - ~2027 Construction
- Dale Street 4:3 Lane Conversion
 - Dale Street, Como Avenue to TH 36
 - 2024 Construction
- County Road B Reconstruction
 - · Ramsey County Lead
 - Snelling Avenue to Lexington Avenue
 - 2024 Construction
- County Road B Reconstruction
 - City project
 - · Eustis St to Cleveland Avenue
 - 2024 Construction

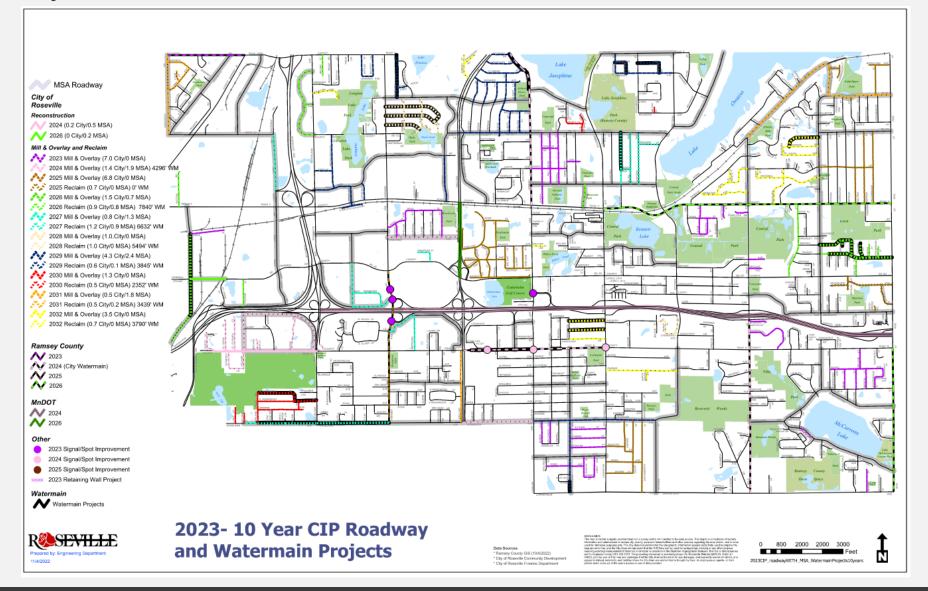




Questions?



Future Roadway CIP





Future Pathway CIP

