

AGENDA  
SHAKOPEE PUBLIC UTILITIES COMMISSION  
REGULAR MEETING  
NOVEMBER 1, 2021  
at 5:00 PM

To watch this meeting live click or copy the link: <https://tinyurl.com/SPU-YouTube-Live>

1. **Call to Order** at 5:00pm in the SPU Service Center, 255 Sarazin Street
  - 1a) Roll Call
2. **Communications**
3. **Consent Agenda**
  - C=> 3a) Approval of October 18, 2021 Minutes (GD)
  - C=> 3b) Approval of November 1, 2021 Agenda (KM)
  - C=> 3c) November 1, 2021 Warrant List (JM)
  - C=> 3d) Xcel Energy Proposed Rate Increase (GD)
  - C=> 3e) Truck Purchases (GD)
  - C=> 3f) SPU Food and Beverage Policy (GD)
  - C=> 3g) SPU Office & Restroom Remodel (BC)
4. **Liaison Report** (JB)
5. **Public Comment Period.** The public comment period provides an opportunity for the public to address the Commission on items that are not on the agenda. Comments should **not** exceed five minutes. The SPU President may adjust that time limit based upon the number of persons seeking to comment. This comment period may not be used to make personal attacks, to air personality grievances, or for political endorsements or campaigns. The public comments are intended for informational purposes only; Commissioners will not enter into a dialogue with commenters, and questions from Commissioners will be for clarification only.
6. **General Manager Report**
  - 6a) General Manager Report – Verbal (GD)
7. **Reports: Water Items**
  - 7a) Water System Operations Report – Verbal (LS)
8. **Reports: Electric Items**
  - 8a) Electric System Operations Report – Verbal (BC)
9. **Reports: Human Resources**

10. **Reports: General**

10a) Marketing/Customer Service Report – Verbal (SW)

10b) Utility Extension – Maras St, 13<sup>th</sup> Ave and Hanson Ave (JA)

10c) Semi-Final Capital Improvement Plan for 2022-2026 (JA)

11. **Items for Future Agendas**

12. **Tentative Dates for Upcoming Meetings**

- November 15, 2021

- December 6, 2021

- December 20, 2021

13. **Adjournment**

**\* There will be a tour of the SPU EV Charging Station outside SPU Service Center. A quorum of Commissioners may be present. Members of the public are welcome to participate in the tour.**

MINUTES OF THE  
SHAKOPEE PUBLIC UTILITIES COMMISSION  
OCTOBER 18, 2021  
Regular Meeting

1. Call to Order. President Mocol called the October 18, 2021 meeting of the Shakopee Public Utilities Commission to order at 5:01 pm. President Mocol, Vice President Fox, Commissioner Brennan, Commissioner Krieg, and Commissioner Letourneau were present.

2. Approval of Consent Agenda. Items (3g) and (3h) were removed from the Consent Agenda. Commissioner Brennan moved approval of the Consent Agenda: (3a) October 4, 2021 Minutes; (3b) October 18, 2021 Agenda; (3c) October 6, 2021 Warrant List, Account Credit Request/Deposit Refunds; (3d) October 18, 2021 Warrant List; (3e) Water Dashboard; (3f) COVID-19 Vaccination Incentive Program. Commissioner Letourneau seconded the motion. Ayes: Mocol, Fox, Brennan, Krieg, and Letourneau. Nays: None. Motion carried.

(3h) Auditor Recommendation. The informal working group discussed the interview process and the recommendation to engage CliftonLarsonAllen. Commissioner Letourneau moved, seconded by Vice President Fox, to engage CliftonLarsonAllen as SPU's auditor. Ayes: Mocol, Fox, Brennan, Krieg, and Letourneau. Nays: None. Motion carried.

3. Liaison Report. Commissioner Brennan noted that she had nothing to report.

4. Public Comment Period. No public comments were offered.

5. General Manager Report. Greg Drent, General Manager, provided an update on current projects, including discussion on water filtration, a joint meeting with the City Council, discussions on the transfer of funds to the City, and 2022 – 2026 CIP preparation. Mr. Drent reported that the electric vehicle charger is in place at SPU. He also noted that ponding will likely be required for the SPU drive-up.

6. Water Report. Lon Schemel, Water Superintendent, noted that the flushing program is done and that it is the earliest date for completion. Mr. Schemel provided an update for Tank #8, that the logos are done and the insulation applied; the project is expected to be completed on schedule by December 10<sup>th</sup>. Mr. Schemel also reported that plastic pipe tracer specification has been completed.

Comprehensive Evaluation of Municipal Water Treatment for SPU. Mr. Schemel introduced Miles Jensen and Ryan Hansen from SEH, to present the Comprehensive Evaluation for Municipal Water Treatment. They explained that SPU currently meets all enforced water quality standards by the EPA and there are no concerns with operational practices. They discussed three alternatives if SPU wishes to plan for any future treatment needs: (1) Satellite Treatment;

(2) Central Treatment; and (3) Hybrid Arrangement. Mr. Hansen presented an overview and cost projections for each alternative. SEH recommended pursuing Option 3, the Hybrid Arrangement. The Commission discussed options and asked clarifying questions. Vice President Fox moved to accept the Comprehensive Evaluation for Municipal Water Treatment Report and to direct staff to incorporate costs in the SPU capital improvement plan. Commissioner Krieg seconded the motion. Ayes: Mocol, Fox, Brennan, Krieg, and Letourneau. Nays: None. Motion carried.

Resolution #2021-21 Approving Exchange Agreement. Joseph Adams, Director of Planning and Engineering, presented Resolution #2021-21. Commissioner Brennan moved, seconded by Vice President Fox, to adopt Resolution #2021-21 Approving Exchange Agreement and all Documents Necessary to Carry Out Exchange Agreement and Completion of Closing Under Exchange Agreement. Ayes: Mocol, Fox, Brennan, Krieg, and Letourneau. Nays: None. Motion carried.

West End - Lower Bluff Service Area. Mr. Adams explained that the City of Shakopee plans to extend a sanitary sewer force main and to construct a lift station to serve the newly annexed area of Jackson Township. He noted that the City has asked SPU to extend a trunk water main to serve this area. Mr. Adams described the proposal from Bolton & Menk, not to exceed \$37,250, to conduct a feasibility study and design of this water main. He also discussed funding options when, as here, the area to be crossed by the trunk water main is not ready for development, but there is development interest in nearby areas. Mr. Adams noted that the feasibility study will estimate the costs and funding sources. Commissioner Brennan moved to approve the proposal for engineering services from Bolton & Menk, in an amount not to exceed \$37,250. Commissioner Letourneau seconded the motion. Ayes: Mocol, Fox, Brennan, Krieg, and Letourneau. Nays: None. Motion carried.

7. Electric Report. Brad Carlson, Electric Superintendent, provided an update on projects, including electric vehicle chargers. He also described four outages since the last Commission meeting.

City of Prior Lake Franchise Fee. Kaela Brennan, attorney for SPU, described the background from 2006 when the City of Prior Lake first adopted a franchise, as well as the recent efforts to increase the franchise fee. Vice President Fox moved to approve sending correspondence to the City of Prior Lake to preserve SPU's position as to the franchise. Commissioner Krieg seconded the motion. Ayes: Mocol, Fox, Brennan, Krieg, and Letourneau. Nays: None. Motion carried.

Renewable Residential Options. Mr. Drent presented options for residential customers to purchase additional renewable energy as part of the 2022 budget process. After discussion, the Commission decided to keep the program as-is for 2022, to promote it to encourage greater participation, and to revisit the program towards the end of 2022.

8. Customer Service/Marketing Update. Sharon Walsh, Marketing/Customer Relations Director, noted that she met with one of SPU's key accounts who was interested in conservation and sustainability efforts. Ms. Walsh is working on the collections process, including the collections agency. She noted that SPU received its first counterfeit \$100 bill. Ms. Walsh explained that with the security camera, staff was able to identify the customer. She reported that the customer arranged alternative payment and that SPU has revised its procedures as to cash payments.

9. Electric Service Territory Discussions. Commissioner Brennan moved, seconded by Vice President Fox, that the Commission go into closed session under Minnesota Statutes, Section 13D.05, subdivision 3(c) to develop or consider offers for the purchase of electric service territory rights and facilities of Minnesota Valley Electric Cooperative. Ayes: Mocol, Fox, Brennan, Krieg, and Letourneau. Nays: None. Motion carried. Commissioner Brennan moved, seconded by Vice President Fox, to return to open session. Ayes: Mocol, Fox, Brennan, Krieg, and Letourneau. Nays: None. Motion carried. In open session, President Mocol noted that the Commissioners gave direction to staff to proceed with discussions with MVEC representatives.

10. Adjourn. Motion by Vice President Fox, seconded by Commissioner Letourneau, to adjourn to the November 1, 2021 meeting. Ayes: Mocol, Fox, Brennan, Krieg, and Letourneau. Nays: None. Motion carried.

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Greg Drent, Commission Secretary

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# Proposed As Consent Item

3c

## SHAKOPEE PUBLIC UTILITIES COMMISSION

### WARRANT LISTING

November 1, 2021

By direction of the Shakopee Public Utilities Commission, the Secretary does hereby authorize the following warrants drawn upon the Treasury of Shakopee Public Utilities Commission:

American Water Works Association	81.00
ALLSTREAM BUSINESS US, INC	2,483.32
AMI INVESTMENTS, LLC, DBA NIGHTHAWK	250.00
ANDREA AMANDA RAMNAUTH	3,718.41
APPLE FORD OF SHAKOPEE	336.50
ARROW ACE HARDWARE	90.27
ASTLEFORD INTERNATIONAL & ISUZU	33.15
AUTO ZONE #3074	902.00
BERNDTSON, ROBERT	183.12
BORDER STATES ELECTRIC SUPPLY INC	11,209.96
BRAUN INTERTEC CORP.	4,704.50
CALDWELL TANK, INC.	427,639.08
CANTERBURY PARK	248.00
CDW LLC	38,666.53
CHOICE ELECTRIC INC	15,675.00
CITY OF SHAKOPEE	187,000.00
CITY OF SHAKOPEE	75.00
CM CONSTRUCTION COMPANY	42,417.50
COMCAST CABLE COMMUNICATIONS, INC.	2.25
CUSTOMER CONTACT SERVICES	242.54
D G WELDING & MFG., INC.	53,181.00
DAKOTA SUPPLY GROUP	209.39
DEL'S CONSTRUCTION COMPANY INC.	42,342.47
DELTA DENTAL PLAN OF MN	4,845.07
DRENT, GREG	42.57
E & M CONSULTING, INC.	405.95
FASTENAL IND & CONST SUPPLIES	290.04
FERGUSON US HOLDINGS, INC.	2,137.00
FERRELLGAS	916.09
FLYTE HCM LLC	100.00
FRIENDSHUH, GRANT	62.49
FURTHER	952.50
Groon, Nathan	1,000.00
GOVERNMENT FINANCE OFFICERS ASSOCIAT	150.00
GRAINGER	44.55
GUNHUS, JEFFREY	50.00
HANSEN, DUANE	150.00
HARRIS ST PAUL., INC	5,712.05
HD SUPPLY FACILITIES MAINTENANCE LTD	90.50
HEALTHPARTNERS	73,189.95
HENNEN'S AUTO SERVICE, INC.	12.10
HENNES, RICHARD	50.00
HERMAN'S LANDSCAPE SUPPLIES INC	24.50
HERNANDEZ, DAMARIS	1,000.00
HOFFMANN, JULIE	350.00
HOY, KHUNTHARAT	150.00
INDUSTRIAL FABRICATION SERVICES, INC	64,335.34
INNOVATIVE OFFICE SOLUTIONS LLC	513.96
INTEGRATED PROCESS SOLUTIONS INC.	21,802.38
IRBY - STUART C IRBY CO	283.30
JT SERVICES	75,773.26
KAHLE, MATTHEW	208.74
KLM ENGINEERING INC	6,500.00
KRUEGER EXCAVATING INC.	32,350.35
LARSON, MITCHELL	108.00
LLOYD'S CONST SERVICES	399.25
MARK J TRAUT WELLS, INC	55,619.00
MIDWEST SAFETY COUNSELORS, INC.	1,093.86
MINN VALLEY TESTING LABS INC	393.00
MYERS, TONY	90.72
NAPA AUTO PARTS	13.25
NEVILLE, GERRY	145.60
NICKOLAY, CINDY	183.68
OELBERG, KATE	500.00
OLDCASTLE INFRASTRUCTURE INC	14,281.27
OLSEN CHAIN & CABLE, INC.	2,043.42
PARROTT CONTRACTING, INC	64,643.02
PAYMENTUS CORPORATION	52,096.55
POMP'S TIRE SERVICE INC	1,199.95
RESCO	88,746.52



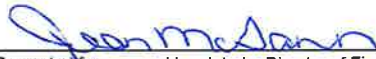
SHAKOPEE PUBLIC UTILITIES COMMISSION

WARRANT LISTING

November 1, 2021

By direction of the Shakopee Public Utilities Commission, the Secretary does hereby authorize the following warrants drawn upon the Treasury of Shakopee Public Utilities Commission:

RESERVE ACCOUNT	2,000.00
ROSE, WILLIAM	32.75
RW Beck Group, Inc, Leidos Eng. LLC	21,557.89
SAMBATEK	7,865.50
SCHEMEL, LON	227.00
SCHERER BROTHERS	138.59
SCHULZ, BRIAN & JODI	350.00
SDDI SIGN SYSTEMS	32.21
SHAKOPEE CROSSINGS LIMITED PTN	981.37
SHORT ELLIOTT HENDRICKSON INC	41,206.36
ST. LOUIS MRO, INC.	35.00
STINSON LLP	370.00
STOCKER, JORDAN	38.36
Turgeon, Judith	175.00
TRIPLETT, GREG	90.72
VERIZON CONNECT NWF INC.	498.70
WALSH, SHARON	21.46
WESCO DISTRIBUTION INC	3,682.18
WILLEMSEN, KELLEY	1,253.12
XCEL ENERGY	3,329.12
	\$1,490,626.10



Presented for approval by: Interim Director of Finance & Administration

Approved by General Manager

Approved by Commission President

## SHAKOPEE PUBLIC UTILITIES COMMISSION

## WARRANT LISTING

November 1, 2021

By direction of the Shakopee Public Utilities Commission, the Secretary does hereby authorize the following warrants drawn upon the Treasury of Shakopee Public Utilities Commission:

American Water Works Association	81.00	Annual dues for Dave Hagen
ALLSTREAM BUSINESS US, INC	2,483.32	Shak Sub, Pike Lake, S.Sub, and SPU
AMI INVESTMENTS, LLC, DBA NIGHTHAWK	250.00	10/1-12/31/2021 Qtrly hosting service
ANDREA AMANDA RAMNAUTH	3,718.41	Nov. Cleaning service
APPLE FORD OF SHAKOPEE	336.50	Water dept. Trk #649 Oil change
ARROW ACE HARDWARE	90.27	Ext. cord, and Enamel- Water dept.
ASTLEFORD INTERNATIONAL & ISUZU	33.15	Stud wheel Trk #612 - Elec. Dept.
AUTO ZONE #3074	902.00	2021 Interior LED Lighting rebate
BERNDTSON, ROBERT	183.12	128 Miles reimb.
BORDER STATES ELECTRIC SUPPLY INC	11,209.96	Credit for \$1503.25 meters, WO#2464 Meters \$4574.17
BRAUN INTERTEC CORP.	4,704.50	Prof. service thru 9/24/21
CALDWELL TANK, INC.	427,639.08	WO# 2259 Pymt #7 & 8 for Water Tank #8 project
CANTERBURY PARK	248.00	Hydrant meter final bill/refund 84741500
CDW LLC	38,666.53	Server Room UPS battery replacement WO#2519
CHOICE ELECTRIC INC	15,675.00	WO#2470 1st Draw elec labor/material AIA
CITY OF SHAKOPEE	187,000.00	Nov. Transfer Fee
CITY OF SHAKOPEE	75.00	R.O.W. processing/reg. fee
CM CONSTRUCTION COMPANY	42,417.50	WO#2470 Draw #2 for SPU bldg project
COMCAST CABLE COMMUNICATIONS, INC.	2.25	Oct. cable bill for lunchrooms
CUSTOMER CONTACT SERVICES	242.54	10/19-11/15/21 Answering service
D G WELDING & MFG., INC.	53,181.00	WO#2470 Fabricate & Deliver Steel for SPU bldg
DAKOTA SUPPLY GROUP	209.39	2 GV Operating Nut
DEL'S CONSTRUCTION COMPANY INC.	42,342.47	#2470 Draw #2 Concrete for SPU bldg. project, masonry
DELTA DENTAL PLAN OF MN	4,845.07	Oct. Dental premiums
DRENT, GREG	42.57	Reimb. Pilot & Jt mtg with B.R.
E & M CONSULTING, INC.	405.95	Shakopee Chamber 2022 Directory
FASTENAL IND & CONST SUPPLIES	290.04	Drill/bit - Elec. Sawzallblades
FERGUSON US HOLDINGS, INC.	2,137.00	5ft Hydrant finders
FERRELLGAS	916.09	Propane bulk 272.3 gal
FLYTE HCM LLC	100.00	COBRA Renewal Plan Jan. 2022
FRIENDSHUH, GRANT	62.49	tree trimming school reimb.
FURTHER	952.50	Flex dental from 5/21/21 & Oct. Adm. Fees
Groon, Nathan	1,000.00	2021 Res. Solar Rebate
GOVERNMENT FINANCE OFFICERS ASSOCIAT	150.00	Membership renewal 8/1/21-7/31/22
GRAINGER	44.55	A/C Refrig. 1/4 In X20 ft. copper coil, gloves
GUNHUS, JEFFREY	50.00	2021 Res. Energy Star Appliance
HANSEN, DUANE	150.00	2021 Res. Energy Star Appliance
HARRIS ST PAUL, INC	5,712.05	WO#2470 -Draw #1 - Plumbing for SPU project
HD SUPPLY FACILITIES MAINTENANCE LTD	90.50	Blue Dye tablets #41229
HEALTHPARTNERS	73,189.95	Oct. Health Premium
HENNEN'S AUTO SERVICE, INC.	12.10	Water dept. gas usage non-Oxy CA
HENNES, RICHARD	50.00	2021 Res. Energy Star Appliance
HERMAN'S LANDSCAPE SUPPLIES INC	24.50	Gold stained mulch
HERNANDEZ, DAMARIS	1,000.00	2021 Res. Solar Rebate
HOFFMANN, JULIE	350.00	2021 Res. Energy Cooling & Heating
HOY, KHUNTHARAT	150.00	2021 Res. Energy Star Appliance
INDUSTRIAL FABRICATION SERVICES, INC	64,335.34	WO#2470 -SPU bldg Construction
INNOVATIVE OFFICE SOLUTIONS LLC	513.96	Office supplies
INTEGRATED PROCESS SOLUTIONS INC.	21,802.38	wo#2457 - \$19198.75 & \$2603.63 Parts and Install of Micrologics isolator pump house #15
IRBY - STUART C IRBY CO	283.30	Irby Tool shop repair & cutout
JT SERVICES	75,773.26	Pole Street Light Breakaway 30' - Inventory
KAHLE, MATTHEW	208.74	EV Charger install charging stations
KLM ENGINEERING INC	6,500.00	Install new entry door shakopee tower
KRUEGER EXCAVATING INC.	32,350.35	WO#2470 Draw #2 SPU Bldg project
LARSON, MITCHELL	108.00	2021 IRRIGATION CONTROLLERS
LLOYD'S CONST SERVICES	399.25	Demo & Construction
MARK J TRAUT WELLS, INC	55,619.00	WO# 2466 Well #13 Pump
MIDWEST SAFETY COUNSELORS, INC.	1,093.86	Latex Gloves- Safety GlassesTowel/wipes
MINN VALLEY TESTING LABS INC	393.00	Coliform
MYERS, TONY	90.72	Water aging sampling supplies reimb.
NAPA AUTO PARTS	13.25	Blstr Pk Miniatures - Water dept.
NEVILLE, GERRY	145.60	87 Miles reimb.

## SHAKOPEE PUBLIC UTILITIES COMMISSION

## WARRANT LISTING

November 1, 2021

By direction of the Shakopee Public Utilities Commission, the Secretary does hereby authorize the following warrants drawn upon the Treasury of Shakopee Public Utilities Commission:

NICKOLAY, CINDY  
OELBERG, KATE  
OLDCASTLE INFRASTRUCTURE INC  
OLSEN CHAIN & CABLE, INC.  
PARROTT CONTRACTING, INC  
PAYMENTUS CORPORATION  
POMP'S TIRE SERVICE INC  
RESCO  
RESERVE ACCOUNT  
ROSE, WILLIAM  
RW Beck Group, Inc, Leidos Eng. LLC

SAMBATEK  
SCHEMEL, LON  
SCHERER BROTHERS  
SCHULZ, BRIAN & JODI  
SDDI SIGN SYSTEMS  
SHAKOPEE CROSSINGS LIMITED PTN  
SHORT ELLIOTT HENDRICKSON INC

ST. LOUIS MRO, INC.  
STINSON LLP  
STOCKER, JORDAN  
Turgeon, Judith  
TRIPLETT, GREG  
VERIZON CONNECT NWF INC.  
WALSH, SHARON  
WESCO DISTRIBUTION INC  
WILLEMSEN, KELLEY  
XCEL ENERGY

183.68	188 Miles reimb.
500.00	2021 Res. Energy Cooling & Heating
14,281.27	WO#2239 -Manhole/Precast Vault
2,043.42	Shackle Anchor Screw Pin 3/4
64,643.02	WO#2357 - Stone meadow
52,096.55	Aug. & Sept. Transfer Fee
1,199.95	Transforce AT2 tires #630
88,746.52	150KVA 3 Phase Transformer Padmount
2,000.00	Replenish postage machine
32.75	MN Commercial Class B license reimb.
21,557.89	Sept. summer Peak Op. Study, \$1677.00- WO#2483 W, Shak. Sub, WO#2483 \$14622.39-West. Shak Sub Interconnection Assistance
7,865.50	WO#2259 Elevated Water Tank 8 thru 9/18/21
227.00	AWWA Annual Membership for L.S.
138.59	Handi Man Form 8 x 4'
350.00	2021 Res. Energy Cooling & Heating
32.21	Vinyl Name for G.D.
981.37	Refund on WO#2399
41,206.36	WO#2432-\$8069.64, Feasibility study, WO#2474-\$2958.00 - Windermere South 4th Addition, WO#2492-Summerland Plance 1 Add., WO#2476 - \$6925.72 Whispering Waters, WO#2524 - \$5174.00 Jefferson Court, WO#2312 \$7449.00 River Bluff Apts., WO#2437 - \$5478.00 Groundwater Aquifer Monitoring Well
35.00	Drug screen collection J.V.
370.00	Labor Matters thru 9/30/2021
38.36	tree trimming school reimb.
175.00	2021 STAR CLOTHES WASHER
90.72	44 miles reimb.
498.70	Water dept. vehicle service for Sept.
21.46	Reimb. counterfeit pens
3,682.18	BOLTS, elbows, lamps, wirje, oxide inhibitor
1,253.12	Ed./Conf. Reimb. w/APPA
3,329.12	Gas usage Amberglen Cir. 9/21-10/21

\$1,490,626.10

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Presented for approval by: Interim Director of Finance & Administration

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Approved by General Manager

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Approved by Commission President



PO Box 470 • 255 Sarazin Street  
Shakopee, Minnesota 55379  
Main 952.445-1988 • Fax 952.445-7767  
www.shakopeeutilities.com

DATE: October 28, 2021  
TO: SPU Commissioners  
FROM: Greg Drent, General Manager *GD*  
Subject: Xcel Energy proposed rate increase

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This week the Pioneer Press and Star Tribune had articles regarding Xcel Energy's proposal to increase their electric rates by almost 20% over three years. Rate cases have to go to the MPUC for review, and they will make a final decision on what the rate will be. Attached is the article from the Pioneer Press for you to review.

Energy prices have risen in the last months, and there is increased pressure on wholesale energy prices that will affect SPU customers. Although there are increases in wholesale energy prices, SPU is still poised to have a competitive rate advantage in the future.

We are working on the rate analysis and will have the preliminary results at the next meeting.

**BUSINESS**

## Xcel Energy wants to increase your electric bill, beginning Jan. 1, 2022

The Minneapolis-based company wants to raise \$677.3 million from its state customers over three years — an increase of 21.2 percent.

By **MOLLY GUTHREY** | [mguthrey@pioneerpress.com](mailto:mguthrey@pioneerpress.com) | Pioneer Press  
PUBLISHED: October 26, 2021 at 7:27 p.m. | UPDATED: October 26, 2021 at 10:33 p.m.

If Xcel Energy gets its way, its 1.3 million Minnesota electricity customers will soon pay more each month for their bills.

Northern States Power Co. — Xcel's local subsidiary — filed an application Monday with the state Public Utilities Commission to increase retail electricity rates in Minnesota.

By how much?

It depends.



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Specifically, Minneapolis-based Xcel is seeking to raise \$677.3 million from its state customers over three years — an increase of 21.2 percent. Here's how that increase would be structured:

- To raise \$396 million in 2022, Xcel wants to raise rates by 12.2 percent — effective Jan. 1.
- In 2023, Xcel wants to increase rates by 4.8 percent to net \$150.2 million.
- In 2024, Xcel would like to raise rates by 4.2 percent in order to raise \$131.2 million.

However, [Minnesota statutory requirements for public utilities](#) mean such increase requests don't get rubber-stamped. The public will have a chance to weigh during a process that could take 10 to 18 months.

In the meantime, though, Xcel is seeking to impose an "interim" increase while the commission considers its petition. This translates to a 9.4 percent overall bill increase for 2022, effective Jan. 1, according to the filing, although an Xcel spokesperson said that increase could end up being 4.7 percent, or even lower.

So why does Xcel want to raise its rates now?

"We're investing in strengthening the energy grid, enhancing the reliability of the service our customers count on, while expanding clean energy and keeping bills low in the years ahead," the company said in a statement. "These projects are key to meeting our customers' needs today and in the future, as we build toward our vision of providing 100% carbon-free electricity to customers by 2050. Our three-year rate proposal to the Minnesota Public Utilities Commission includes investments to deliver a better product for our customers, giving them more of what they expect from us."

For those stressed about increasing energy bills, Xcel suggests looking for help on its website at [mn.my.xcelenergy.com](https://mn.my.xcelenergy.com) or by calling 1-800-895-4999.

What happens now with the application?

If the application is in order, the public should expect this matter to be referred to the Office of Administrative Hearings. That phase, according to past protocol, will include evidentiary proceedings, public hearings and open comment periods.

Once a period for comment is opened, comments can be submitted to the state's website at <https://mn.gov/puc/consumers/public-comments>.



---

In 2017, the commission approved a rate increase for Xcel of 6.1 percent over four years, instead of Xcel's requested 9 percent over three years.

The commission is made up of five commissioners, appointed by the governor, to serve staggered terms of six years. The commission, chaired by [Katie Sieben](#), a former state legislator who has served since 2017, regulates issues including reasonableness of utility fuel costs, planning for oil and gas pipeline projects and telecommunication issues relating to landlines.

Tags: [Business](#), [Minnesota](#)



## Molly Guthrey

Molly Guthrey was born in Fargo, North Dakota, but has spent more than half her life telling the stories of the people and the places of Minnesota through her work at the St. Paul Pioneer Press. Thank you for supporting local journalism.

[mguthrey@pioneerpress.com](mailto:mguthrey@pioneerpress.com)

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## BREAKING THE NEWS

# Xcel Energy requests 21% increase in electricity rates; here's what that could mean

The Minnesota Public Utilities Commission will have final say on the increase in the next 18 months, but customers should still be ready to pay more come January.

Author: Kent Erdahl

Published: 6:46 PM CDT October 26, 2021

Updated: 6:46 PM CDT October 26, 2021



MINNEAPOLIS — Minnesotans are already bracing for big jumps in heating costs this winter, and now the state's largest electricity provider, Xcel Energy, is requesting a rate increase of around 20% over the next three years.

Xcel is requesting an electricity rate increase of 21.2%, or \$677.4 million, between 2022-2024. It includes a 12.2% increase in 2022, followed by 4.8% in 2023, and 4.2% in 2024.





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For the average residential customer, the increase would amount to a 19% increase in their monthly bill, which would mean an additional \$18.50 per month by 2024.

"Any increase in the area of 20% — that absolutely should get people's attention," said Angie Levenson-Falk, executive director of the [Citizens Utility Board of Minnesota](#), a nonprofit advocate for Minnesota's utility consumers. "Layer on top of that, about one in eight Xcel customers is already behind on their bills. They're already not able to afford it."

Levenson-Falk says the Citizens Utility Board will argue for smaller rate increases during the upcoming review process by the Minnesota Public Utilities Commission. In the meantime, she says customers shouldn't panic.

"That is a really, really large request, but that's what it is, a request," Levenson-Falk said.

"Everybody knows they're not going to get all of what they requested, and so it is going to come in somewhere lower than what they're asking for."

It will take the Public Utilities Commission the next 10 and 18 months to figure out where the rates are officially set, but for now, Annie says Xcel customers should plan for a 9.4% increase on their January electricity bills.

"That's an interim rate increase, so the utility can raise its rates as its final request is being considered," she said.

In regards to its full, three-year request, Xcel spokesman Matt Lindstrom said in a statement, "We're investing in strengthening the energy grid, enhancing the reliability of the service our customers count on, while expanding clean energy and keeping bills low in the years ahead."



In 2020, the company claims residential electric bills were 22% below the national average and 15% below the Minnesota average. Even if the full increase is approved, Lindstrom says bills would remain below the national average.



Levenson-Falk says that alone doesn't justify an increase.

"We need to look under the hood at how Xcel wants to use its customer's money," she said. "In the meantime, make your voice heard if you're an Xcel customer and if you have an opinion about this. There is going to be a public process where anybody can comment. It's useful to do that."

She says it's also useful for customers of all utilities to pay attention.

"Quite a few of the big utilities in Minnesota are also going to be requesting to increase their rates this year," Levenson-Falk said. "So even though this case won't have an impact on you if you're not an Xcel electricity customer, your utility might be looking at very similar things."

Xcel has also proposed a lower, alternative interim rate for January that could mean the average customer pays just \$1-2 more per month, but that rate would require the Public Utilities Commission to also lock in a larger, interim increase for 2023. It's not clear that will happen.

If you are a Minnesota utility customer with questions about your bill, renewable energy or assistance programs, you can call or email the [Citizens Utility Board of Minnesota](#) or access resources through their [website](#).

#### Related Articles

[WalletHub ranks Minnesota 4th most energy-efficient state](#)

[Xcel reminds customers that Cold Weather Rule takes effect Friday](#)

Prepare yourself: Heating costs expected to skyrocket this winter






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DATE: October 28, 2021

TO: SPU Commissioners

FROM: Greg Drent, General Manager 

Subject: Truck Purchases

---

I wanted to update the commission on SPU vehicle purchases. Attached is a memo I wrote in 2020 regarding truck purchases. The current practice is to keep pick-up trucks 8 to 10 years and large trucks 10 to 12 years depending on age, mileage and or maintenance expenses. The CIP is being presented at this meeting and wanted you to know we are following this practice in the budget.

Action: This item is for information purpose only



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September 16, 2020

TO: Joseph Adams, Interim Utilities Manager  
FROM: Greg Drent, Electric Superintendent  
Subject: Truck purchases

---

Attached is a list of the trucks purchased through state bid or Sealed Bids in during the last couple of years. Past practice has been to keep pickup trucks 8 to 10 years and large trucks 10 to 12 years. We do look at our truck fleet on a regular basis to decide if we need to expedite or add some years to individual trucks. We look at the year of the truck, mileage, maintenance cost and upgrades before deciding to keep or look at a new truck.

For example, in 2018, we had one truck that was 5 years old that our locator drove every day. Several repairs were needed to be done to the front end and it also needed new tires. We got an estimate for over \$3000 to get the vehicle repaired. The truck had over 88,000 miles and a couple times a year he, the locator, was stuck on job sites because he did not have 4-wheel drive. During the CIP budget process, we added that truck to be replaced rather than spending the money and still having a vehicle that did not fit our needs.

We purchase most of our vehicles through the state bid contract process, which meets the competitive bidding requirement. Attached is an email from the League of Minnesota cities regarding state bid contracts. I added a bucket truck we purchased in 2016 to the list of vehicles to show when large bucket trucks are purchased outside state bid process we use formal sealed bid process to get the best price for the utility. After evaluating the sealed bid, we brought that recommendation to the commission for approval before purchasing the bucket truck.

When our new vehicles are put into service, we normally send the old vehicle to auction with the exception of the bucket trucks which we either trade in or send to auction. We evaluate the trade in amount verses what we think we may get at auction. In 2016 we sent a large bucket truck to auction and got \$25,500 but in 2019 we got offered \$27,000 for a small bucket truck through Altec industries (the manufacture of the new bucket truck) so we decided that was more than we were going to get at auction and we traded it in.

I will be at the commission meeting to answer any questions you may have.



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DATE: October 28, 2021  
TO: SPU Commissioners  
FROM: Greg Drent, General Manager *[Signature]*  
Subject: SPU Food and Beverage Policy

---

Background: SPU would like to have a formal Food and Beverage policy to have clear expectation for staff to follow.

This policy will be in the handbook that staff is working on updating but in past years we have had the event in December and would like to schedule that event before the handbook is brought to commission for approval.

See attached policy for review.

Action:

Approve SPU Food and Beverage Policy

# SPU Food and Beverage Policy

## Scope

---

The General Manager and department directors may incur expenses for food and beverages under this policy. The directors are responsible for determining the public purpose, the best method to minimize the expense, and the need to provide refreshments while conducting SPU business.

## Rationale

---

The use of public funds is grounded in a “public purpose,” meaning the authority by statute to spend the money for this purpose, that the expenditure benefits the community as a whole, and that the expenditure is directly related to functions of the government. SPU seeks to address the use of food and beverages for SPU activities and to maintain consistency and clarity of the public purpose and necessity of such expenses.

## Guidance for Business Meal Expenses

---

SPU will pay necessary and reasonable food and non-alcoholic refreshment expenses when:

1. A meeting is scheduled at a restaurant or dining establishment between SPU staff and non-SPU staff to conduct SPU business.
2. Refreshments are provided as part of a SPU-sponsored meeting, conference, or workshop and the majority of the participants are not SPU employees.
3. Professional association meetings and/or accreditation processes.
4. Refreshments or meals are part of a job candidate interview meeting.

## Guidance for Employee Meetings

---

All employee meetings shall be scheduled to minimize the inclusion of meals. If a meeting cannot be scheduled to avoid a mealtime period, the cost of refreshments or meals may be paid for with SPU funds consistent with this policy.

SPU will pay necessary and reasonable food and non-alcoholic refreshment expenses when the cost of refreshments or meals are part of a formal meeting that consists primarily of SPU employees when the refreshments or meals are an integral part of the formal meeting and are necessary to sustain the flow of the meeting, to retain the captive audience, and to assist the participation of those employees and attendees, but only if the meeting is one of the following:

1. SPU-wide staff meeting of all its employees, when scheduled at a time convenient for all employees to attend and to minimize disruption of service to the public.
2. Departmental meetings or meetings of senior management scheduled over the lunch hour because there is no alternative time available during the workday, for the purposes of discussing SPU business. This provision does not include regular staff meetings.

The meetings described above (1 and 2) shall be held no more frequently than once each quarter, unless the Department receives prior written approval by the General Manager describing the meeting and the public purpose.

3. A structured training session, available to employees generally, but only if the training has been approved by a department director.
4. An unplanned management or an extraordinary SPU-business event, including:
  - Work activities requiring continuous service when it is difficult to break for meals (i.e.: water main breaks, electric outages);
  - Refreshments for staff working in extreme weather conditions. (i.e. water and isotonic drinks for hydration purposes, etc.)

## Process for Requesting Reimbursement

1. The appropriate department director or the General Manager will complete and submit documentation that details how the expense meets this policy or details the public purpose, lists the names of the attendees, receipts, and any other information requested by the Finance department to verify the validity of the expense.
2. Receipts are required for everything other than gratuities. Gratuities may not exceed 18%.

## Prohibited Use of SPU Funds

SPU funds are prohibited for the following:

- Alcoholic beverages.
- Tipping of more than 18% on SPU approved reimbursable meals.
- Employee functions that are solely in celebratory nature (i.e. birthdays, holidays, ice cream socials).
- Fundraisers for non-SPU related events.
- Meetings between staff members that are not in accordance with the permitted uses above, such as routine staff meetings.



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DATE: October 26, 2021

TO: Greg Drent, General Manager *GD*

FROM: Brad Carlson, Electric Superintendent *BJC*

Subject: SPU Office & Restroom Remodel

---

**Background:**

SPU service center expansion project is well under way with a completion date of late November. In addition to the expansion area we have decided to remodel the men & women's restroom in the middle of our office space. Currently, we have two combined restroom areas, which will become four (4) stand-alone single door units to best fit the needs of our employees at SPU. In addition, we will be updating two small conference rooms into one large conference room; the larger conference room is needed for meetings by SPU employees. This change would free up the overwhelming need for the one existing large conference room we already have.

One additional leadership office will be constructed within the Electric Departments current area. This office will be used for the Electric Superintendent position and the current office will be used for the Director of Field Operations. This addition was in the Organizational chart approved April 5<sup>th</sup>, 2021.

The added cost for the completion of the office space & restroom remodel areas is \$215,995.47. Attached is the low bids for the work to be completed. With this addition we will still be under the overall budget of \$3,000,000 for the entire project.

**Action:**

Approve the low bids and move forward with the Office & Restroom remodel areas for the amount of \$215,995.47.





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 WWW.DELSCONSTRUCTIONMN.COM

# SPU Restrooms

10/16/2021

A&E	0.00%	\$0.00	Included as a percentage of original budget 2 months additional trailer & dumpsters
GC Fee	0.00%	\$0.00	
Supervision	14.07%	\$30,400.00	
General Conditions	1.39%	\$3,000.00	
Permits	0.93%	\$2,000.00	
SAC/WAC	0.46%	\$1,000.00	
Furnishings/owner equipment	0.00%	\$0.00	
	16.85%	<b>\$36,400.00</b>	
<b>Construction Costs</b>	0.00%		
Del's concrete floor replacement	2.08%	\$4,500.00	
CM General Construction	39.60%	\$85,523.52	
Kendell - doors	3.97%	\$8,580.00	
Harris Plumbing	14.30%	\$30,897.00	
HVAC - budget	6.94%	\$15,000.00	
Nova	1.66%	\$3,577.00	
Choice	5.50%	\$11,882.00	
		<b>\$159,959.52</b>	
Subtotal		\$196,359.52	
Contingency	10%	<b>\$19,635.95</b>	
Total		<b>\$215,995.47</b>	



10b

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TO: Greg Drent, General Manager *GD*  
FROM: Joseph D. Adams, Planning & Engineering Director *J Adams*  
SUBJECT: Utility Extension-Maras St., 13<sup>th</sup> Ave and Hanson Ave  
DATE: October 29, 2021

## ISSUE

Staff would like to update the Commission on recent developments for this project.

## BACKGROUND

The Commission previously reviewed the City's Consultant WSB's Feasibility Report dated January 20, 2021, portions of which are attached to staff's April, 15, 2021 memo. The project as proposed would include a 12-inch lateral water main extension throughout this industrial area located on the east side of the city. The water main improvements are estimated in the Feasibility Report to cost approximately \$1,530,000.

## DISCUSSION

Due to the belief that it would be difficult to push this project through with the traditional approach by assessing the costs for all of the improvements via the Chapter 429 process in state statutes, it is proposed that the costs be recovered via a special lateral water main connection charge when properties hook up and begin service.

Staff has agreed with the city that the process as explained in the attached power point presentation recently distributed to the neighborhood at a meeting held on October 12, 2021 is the best approach to have a successful project.

That is; the property owners will have the option of connecting to the municipal services within the first three years and paying the to be defined special lateral connection fees or may wait until one of their two private utility systems fail - either their current septic system or water supply well. Should one and not the other fail, they would have the choice to either connect both concurrently or just the failed system and then be given up to 15 years to connect the non-failed system. Costs would escalate after the first three years by applying an inflation index to incentivize earlier hook-ups and to avoid passing carrying costs onto ratepayers. Connecting to

RP3



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municipal services and paying the lateral connection fees would also be triggered by any sale or re-development of a property.

Staff has included the cost of this project in year 2022 of the Semi-Final 2022-2026 Capital Improvement Plan.

#### REQUESTED ACTION

No action is necessary at this time.



# Utility Extension- Maras Street, 13<sup>th</sup> Avenue, and Hansen Avenue

Sewer-21-001



NEIGHBORHOOD MEETING:  
RECOMMENDED FUNDING &  
CONNECTION TIMING OPTIONS

## Features for Attendees using Zoom

- Question and answer opportunity after short presentation
- Computer users – “Raise Hand” function if wanting to speak
  - Provide typed comments, others can “like” or comment on these too
- On smartphone to perform “Raise Hand” function type \*9
- Email option for those not wanting to speak – Darin Manning: [dmanning@shakopeemn.gov](mailto:dmanning@shakopeemn.gov)
- Meeting will be recorded and available on the City’s website



# Project Location

- Maras Street
  - Hansen Avenue to 13th Avenue
- 13th Avenue
  - Stagecoach Road to the City boundary
- Hansen Avenue
  - Stagecoach Road and Maras Street
- Stagecoach Road
  - 350' north of Boiling Springs Lane to 550' south of 13th Avenue



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# Project Overview

- Install watermain, sanitary sewer, a sanitary forcemain and lift station
- Storm sewer repairs
- Reconstruction of 13<sup>th</sup> Avenue, Maras Street and Hansen Avenue to existing widths
- Install streetlights
- Extend sidewalks

Sanitary Sewer and Water



Streetlights



Sidewalk



## Summary of Project Costs

Type of Fee		Current Fee
Street Assessment- All streets		\$10,330.00/developable acre
Lateral Sanitary Sewer Connection Charge	Gravity Sewer	\$4,625.00/developable acre
	Forcemain	\$5,077.00/developable acre
Lateral Watermain Connection Fee		\$14,803.00/developable acre
Trunk Sanitary Sewer Charge		\$3,012.00/developable acre
City Sewer Availability Charge		\$520.00/SAC unit
MCES Sewer Access Charge		\$2,485.00/SAC unit
Trunk Water Charge		\$4,662.00/acre
Water Capacity Charge		\$5,526.00/SAC unit*

Note: The Project Costs above are based on estimates from similar projects during the 2020 construction season and the 2020 fee schedule. These costs are subject to change after Project completion.



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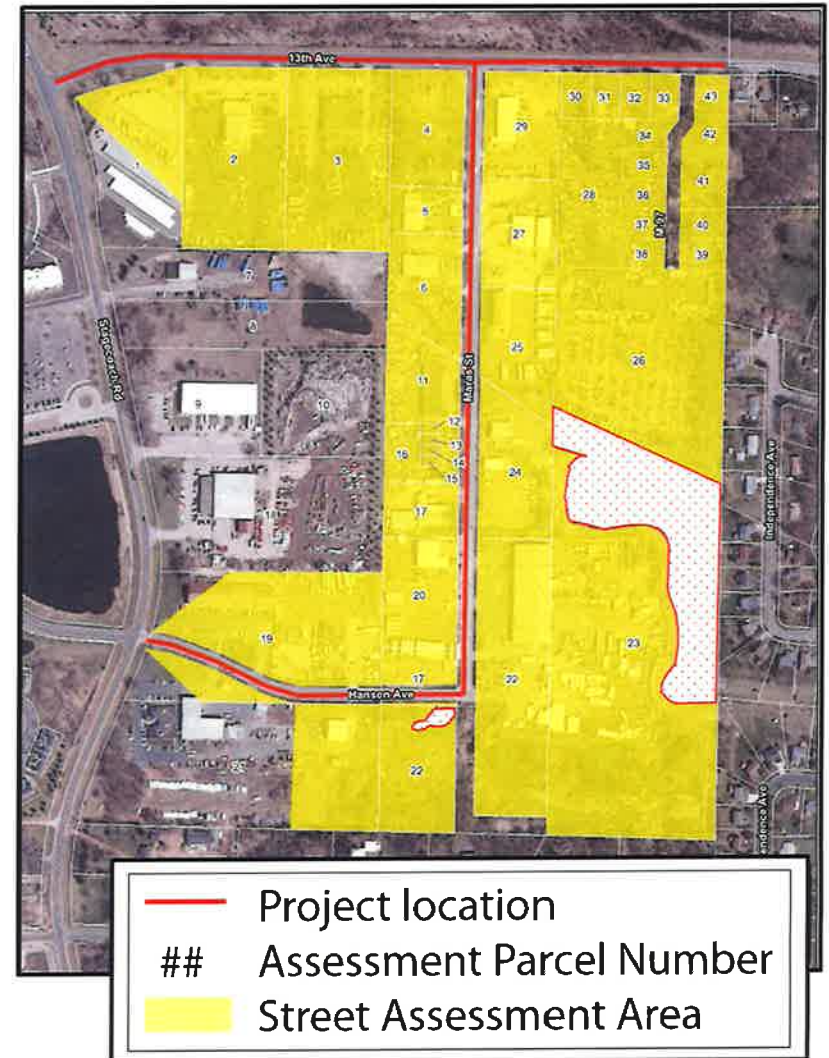
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Note: The Project Costs above are based on estimates from similar projects during the 2020 construction season and the 2020 fee schedule. These costs are subject to change after Project completion.

# Street Assessment Map

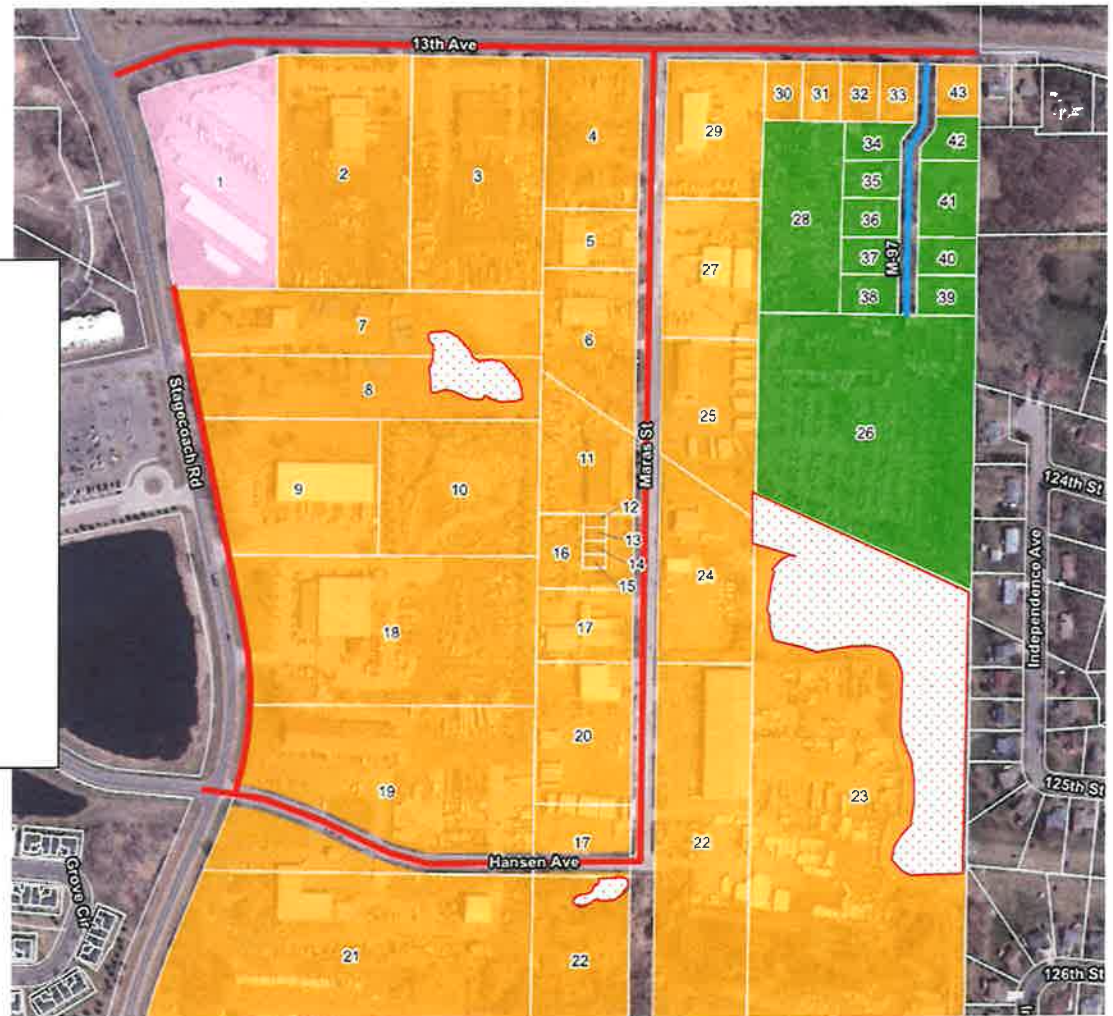
- Street assessment cost will be established at the Assessment Hearing after project completion.
- Assessments not paid in full within 30 days will be certified to Scott County property taxes and are payable over a 10-year term at the interest rates available at that time (typically ~5%).





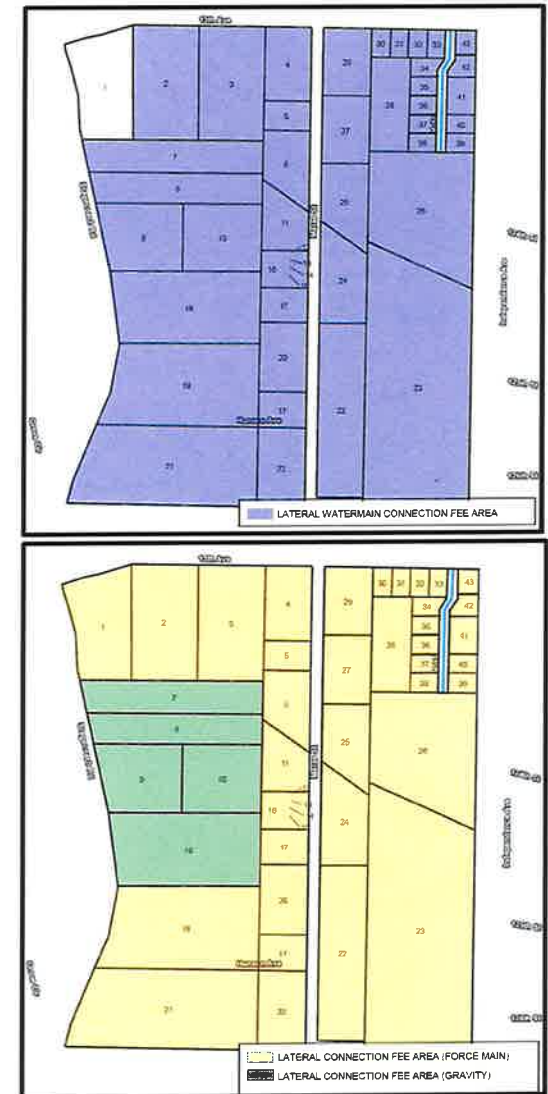
# Sanitary Sewer and Water Fee Map

- Project location
- Future Sewer & Water
- Excluded Wetland/Right of Way
- ## Parcel Number
- Sewer Fee Area
- Deferred Sanitary Sewer and Water Fee Area



# Recommended Funding Option: Lateral Connection Fees

- Property Owners can request to have the Lateral Connection Fees specially assessed over a 10-year period
  - Lateral Watermain Connection Fee: \$14,803.00/developable acre
  - Lateral Sewer Connection Charge (Gravity Sewer/Stagecoach): \$4,625.00/acre
  - Lateral Sewer Connection Charge (Forcemain/Maras St, Hansen Ave, 13<sup>th</sup> Ave): \$5,077.00/acre
- If connection occurs after the initial 3-years of the utility being installed an annual cost escalation will be applied based on the Engineering News Record's Construction Cost Index



# What Triggers Requirement to Connect to Water or Sanitary Sewer?

- City Ordinance:

Within 3-years or immediately upon private system becoming defective, whichever occurs first. A system becomes defective when substantial repair is needed, such as replacement of drain field lines, pumping of tanks, or replacement of a well pump motor.

- Recommend Deviating from Ordinance:

1. Property is redeveloped
  - Lateral fees must be paid when final plat is recorded
2. Sale of property
3. Failure of system
4. Voluntary connection



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## Recommend Option to Connect Utilities Concurrently or Non-Currently

- Concurrent

- Connects both utilities at the same time and defer the connection fee for the system that didn't fail for a period of 3-years.
- Example: Sewer fails but drinking water well still has life left. Property owner connects to both sanitary sewer and watermain now but doesn't start paying for the water connection fees until 3-years has passed. No annual cost escalation for those 3-years.

- Non-Concurrent

- Allow connection of the failing system only.
- The non-failing system must be connected within 15-years.
- If sanitary sewer is connected but not water a flat rate will be charged for sewer service.



## Schedule

Authorize Feasibility Report.....	May 8, 2020
Public Engagement Meeting.....	July 21, 2020
Second Public Engagement Meeting.....	August 28, 2020
City Council Accepts Feasibility Report.....	March 16, 2021
Public Hearing.....	April 20, 2021
Final Design.....	Summer/Fall 2021
Third Public Engagement Meeting.....	October 12, 2021
Bid opening.....	January 2022
Begin Construction.....	Spring 2022
Substantial Completion.....	Fall 2022
Public Hearing for Assessments.....	November 2022



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# Questions?





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TO: Greg Drent, Interim General Manager *GD*  
 FROM: Joseph D. Adams, Planning & Engineering Director *JDA*  
 SUBJECT: Maras Street, 13<sup>th</sup> Avenue, Hansen Avenue and Stagecoach Road Water Main  
 Project Considerations in Conjunction with City Project 2021-001  
 DATE: April 15, 2021

#### ISSUE

The city of Shakopee recently reviewed the attached Feasibility Report for their Project 2021-001 and are holding a Public Hearing on April 20, 2021 to discuss this project. The city's power point presentation for the public hearing is also attached.

#### BACKGROUND

This area of the city is not presently served with municipal services for sanitary sewer and water main save for the I-Storage site that SPU serves with municipal water. The rest of the properties have septic systems and private water wells.

The attached report details the condition of the existing septic systems and private water wells. The city is contemplating improvements and wishes to have the Commission's input on including water main in the project area and how the associated costs might then be funded.

The majority of the properties in the project area are zoned industrial. There are a few single family homes in the northeast corner along 13<sup>th</sup> Avenue. Water main planning has assumed a 12-inch water main throughout this area to serve the industrial properties, since that is the minimum pipe diameter size for that zoning in the Commission's design criteria. Long range planning has also called for an inter connection to the city of Savage water system at the boundary. The estimated water main costs in the report are consistent with installing a 12-inch water main and currently total an estimated \$1,436,000.

In addition to the water main project costs there are also other SPU water fees that apply whenever an area is receiving water service. There is a Trunk Water Area Charge (TWC) that is applied to the net developable area which funds trunk water main over sizing by the Commission per policy. The TWC is usually collected at the same time water service is made available, i.e. when water mains are installed. The other water fee is called the Water Capacity Charge (WCC)



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and the rate for it is multiplied by the number of equivalent SAC units as determined by the Met Council for each property use. A SAC unit is a Sewer Availability Charge unit and 1 SAC unit is equal to the flow of 274 gallons per day, which is also equal to the sewage flow assumed for one residential unit per Met Council policy. For WCC purposes SPU uses the same number of SAC units for industrial, commercial and single family residential units and prorates the SAC units for multi-family residential units per its policy, hence the term equivalent SAC unit being used by SPU. The WCC is usually collected at time water service begins or expands.

## DISCUSSION

City staff is recommending to Council that the benefitting properties not be assessed right away for the cost of sanitary sewer improvements, but rather a lateral sanitary sewer connection charge be defined by the cost/net developable area. That method for recouping the costs has also been used on past water main projects. The challenge is in properly determining the fee, deciding on whether the fee is indexed for inflation at all for the time lapse until it is collectable, properly recording the existence of the fee on property records so that the present owners and any prospective buyers are aware of the fee's existence and the conditions that will trigger its collection and finally actually successfully collecting the fee along with any applicable charges at the time water service is commenced.

The total infrastructure costs can be daunting in re-development projects like this and past experience is mixed. There are several properties in the city that have had water service available for many years, yet still remain on private wells even though they are connected to sanitary sewer. This despite a city ordinance and SPU customer service policy requiring hook up to municipal water when it has been available for 3 years.

Staff believes it is advantageous whenever sanitary sewer is installed that water main be installed at the same time. And staff believes that whenever a property is allowed to complete the hook up to sanitary sewer service that they should also begin water service. Sanitary sewer billing is usually based off of non-irrigation periods of water usage.

## RECOMMENDATIONS

Staff is recommending that the Commission advise the city that it supports having the water main improvements constructed with the city project and that SPU will provide the initial funding from its Trunk Water Fund.

The Trunk Water Fund will be reimbursed when the properties hook up and pay the applicable Lateral Water Main Connection Charge established at the level listed in the feasibility report, \$14,802.63 per net developable acre. And that the fee be indexed in a similar manner as to the sanitary sewer fee should the city decide to do that. Further, that the TWC and the WCC also be





PO Box 470 • 255 Sarazin Street  
Shakopee, Minnesota 55379  
Main 952.445-1988 • Fax 952.445-7767  
[www.shakopeeutilities.com](http://www.shakopeeutilities.com)

deferred until such time water service is commenced and requests that the city require water service to begin when sanitary sewer service begins for each benefitting property in this project area.

#### REQUESTED ACTION

Staff requests the Commission direct staff to inform the city of its action and prepare any necessary resolutions for adopting such action.



## FEASIBILITY REPORT

UTILITY EXTENSION – MARAS STREET,  
13<sup>TH</sup> AVENUE, AND HANSEN AVENUE

CITY OF SHAKOPEE | SCOTT COUNTY, MINNESOTA

JANUARY 20, 2021

Prepared for:  
City of Shakopee  
485 Gorman Street  
Shakopee, MN 55379

CITY PROJECT NO. SEWER-21-001  
WSB PROJECT NO. 016155-000



# **FEASIBILITY REPORT**

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## **UTILITY EXTENSION – MARAS STREET, 13<sup>TH</sup> AVENUE, AND HANSEN AVENUE**

**CITY PROJECT NO. SEWER-21-001**

**FOR THE  
CITY OF SHAKOPEE, MINNESOTA**

**JANUARY 20, 2021**

**Prepared By:**







January 20, 2021

Mr. Darin Manning, PE  
Project Coordinator, Engineering Division  
City of Shakopee  
485 Gorman Street  
Shakopee, MN 55379

Re: Feasibility Report  
Utility Extension – Maras Street, 13<sup>th</sup> Avenue, and Hansen Avenue  
City Project No. Sewer-21-001  
City of Shakopee, MN  
WSB Project No. 016155-000

Dear Mr. Manning:

Transmitted herewith for your review is a feasibility report which addresses improvements associated with the Utility Extension project of Maras Street, 13<sup>th</sup> Avenue, and Hansen Avenue for the City of Shakopee.

I am available at your convenience to discuss this report. Please do not hesitate to contact me at 763.512.5244 if you have any questions regarding this report.

Sincerely,

WSB

A handwritten signature in black ink that reads "Alyson Fauske". The signature is written in a cursive, flowing style.

Alyson Fauske, PE  
Senior Project Manager

Attachment

701 XENIA AVENUE S SUITE 300 MINNEAPOLIS, MN 55416 763 541 4800 WSBENG.COM

## CERTIFICATION

---

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly licensed professional engineer under the laws of the State of Minnesota.

  
Alyson Fauske, PE

Date: January 20, 2021

Lic. No. 42437

Quality Control Review Completed By:

  
Timothy Hanson, PE

Date: January 20, 2021

Lic. No. 19574

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### **Appendix F**

Septic System Reports, Well Boring Reports, and Well Records

### **Appendix G**

Boiling Springs Sanitary Sewer Extension Memorandum

## **1. EXECUTIVE SUMMARY**

The Utility Extension project on Maras Street, 13<sup>th</sup> Avenue, and Hansen Avenue was initiated by the City's Capital Improvement Plan and Sanitary Sewer Master Plan, and on May 8, 2020, the City authorized the preparation of a feasibility report. The proposed improvements include the extension of watermain and sanitary sewer on Maras Street, 13<sup>th</sup> Avenue, Hansen Avenue, and Stagecoach Road, as well as street reconstruction on Hansen Avenue, Maras Street, and 13<sup>th</sup> Avenue, drainage improvements, and pedestrian improvements.

The total estimated project costs for the Utility Extension project is **\$5,368,000**, which includes a 10% contingency and 20% indirect costs for legal, engineering, administrative, and financing costs. The project is proposed to be funded through special assessments to benefiting property owners, and City funds. Grant funding is also a possibility.

The project is proposed to be substantially completed in 2022, including restoration items. The project is feasible, necessary, and cost-effective from an engineering standpoint and should be constructed as proposed herein.

## **2. INTRODUCTION**

### **2.1 Authorization**

On May 8, 2020, the City of Shakopee authorized a Proposal of Engineering Services to prepare a Feasibility Report for the Utility Extension – Maras Street, 13<sup>th</sup> Avenue, and Hansen Avenue project as identified in the City's Capital Improvement Plan and Sanitary Sewer Master Plan. Failing septic systems and potential groundwater contamination are the impetus for the project.

### **2.2 Scope**

This report investigates the feasibility of proposed improvements within the project area. The proposed project areas for improvements include:

- Maras Street between 13<sup>th</sup> Avenue and Hansen Avenue
- 13<sup>th</sup> Avenue between Stagecoach Road and the City of Shakopee boundary
- Hansen Avenue between Stagecoach Road and Maras Street
- Stagecoach Road between 13<sup>th</sup> Avenue and 300 feet south of Hansen Avenue

Proposed improvements within this report include utility extensions, roadway reconstruction, drainage/storm sewer improvements, and pedestrian improvements. See **Appendix A** for proposed project area maps.

### **2.3 Data Available**

Information and materials used in the preparation of this report include the following:

- City of Shakopee 2040 Comprehensive Plan (November 2019)
- City of Shakopee Sanitary Sewer Master Plan (January 2019)
- City of Shakopee Assessment/Improvement Policy (July 2017)
- City of Shakopee Record Plans
- City of Shakopee Topography Maps
- Public Works Maintenance Records
- Scott County ISTS Records
- Minnesota Well Index
- Private Utility Maps
- Utility Record Drawings
- Field Observations of the Area and Topographic Survey
- Geotechnical Evaluation Report (June 2020)
- Phase I & II Environmental Site Assessments (June 2020)
- Shakopee Public Utility Commission Comprehensive Plan dated 2018 and amended in 2019

### 3. EXISTING CONDITIONS

#### 3.1 Surface

The roadways in the project area are currently bituminous paved with concrete curb and gutter. Existing roadway widths are 36-feet on Maras Street and Hansen Avenue, and 44-feet on 13<sup>th</sup> Avenue. Based on pavement inspections by City staff, 13<sup>th</sup> Avenue is in fair condition, was constructed in 1987, and overlaid in 2009. Hansen Avenue and Maras Street both show signs of deterioration, cracking, and fatigue, and are candidates for roadway reconstructions, they were constructed in 1997. The concrete curb and gutter throughout the project area are generally in good condition.

#### 3.2 Sanitary Sewer and Watermain

Sanitary sewer is not present within the proposed project area, instead the adjacent properties are connected to private septic systems. There is existing 12-inch PVC sanitary sewer on Hansen Avenue, just west of the intersection at Stagecoach Road, which would serve as a connection point for the proposed sanitary sewer. Many of the existing septic systems are currently failing or non-compliant due to age.

##### 3.2.1 Existing Individual Sewage Treatment Systems

Properties within the project area are currently served by Individual Sewage Treatment Systems (ISTS). Copies of the Scott County records are included in **Appendix F** and are summarized in **Table 3-1**. According to the United States Environmental Protection Agency (EPA) the average life span of an ISTS is 15 to 40 years. The longevity of an ISTS system varies based on system usage, the maintenance performed on the system, the type of material used, groundwater flooding, and damage due to vehicular traffic.

In some instances, there is no record of when a system was installed and determining the reason why is beyond the scope of this study. Some reasons why may include: there are no structures on the property, the property shares an ISTS system with an adjacent property, or the system was installed prior to record-keeping protocols. Minnesota State Statute 115.55 Subd. 5 requires existing systems to be inspected when a bedroom is added to a dwelling. Additionally, Scott County requires inspections when an action (such as a land use application or building permit) has been or will be taken that may negatively affect the ISTS; with a permit or amendment application is made for a change in the property, such as grading, additional parking or outdoor storage; or when a parcel is developed, subdivided, rezoned or otherwise changes size.

**Table 3-1 Summary of ISTS within the Project Area**

Property Address	Age of ISTS	Condition of ISTS	Information Source
8620 13 <sup>th</sup> Ave E	13 years	Conforming System	Scott County Record
8700 13 <sup>th</sup> Ave E	10 years	Failure to Protect GW*	Scott County Record
8800 13 <sup>th</sup> Ave E	18 years	Setback issues	Scott County Record
8992 13 <sup>th</sup> Ave E	21 years	Conforming System	Scott County Record
9016 13 <sup>th</sup> Ave E	Over 21 years	Conforming System	Scott County Record
9040 13 <sup>th</sup> Ave E	Unknown	Failure to Protect GW*	Scott County Record
9064 13 <sup>th</sup> Ave E	20 years	Conforming System	Scott County Record
9081 13 <sup>th</sup> Ave E	6-10 years	Conforming System	Scott County Record
9085 13 <sup>th</sup> Ave E	11 years	Conforming System	Scott County Record



Property Address	Age of ISTS	Condition of ISTS	Information Source
9095 13 <sup>th</sup> Ave E	3 years	Conforming System	Scott County Record
9097 13 <sup>th</sup> Ave E	21 years	Conforming System	Scott County Record
9099 13 <sup>th</sup> Ave E	Unknown	Unknown	None
9100 13 <sup>th</sup> Ave E	Unknown	Unknown	None
8600 Hansen Ave	Unknown	Failure to Protect GW*	Scott County Record
1300 Maras St	n/a	n/a	None
1315 Maras St	10 years	Failure to Protect GW*	Scott County Record
1350 Maras St	12 years	Conforming System	Scott County Record
1382 Maras St	Over 21 years	Failure to Protect GW*	Owner Survey/MPCA
1395 Maras St	13 years	Conforming System	Scott County Record
1414 Maras St	Unknown	ITPHS**	MPCA***
1415 Maras St	13 years	ITPHS**	Scott County Record
1428, 1432, 1438, 1444 Maras St	Unknown	Failure to Protect GW*	MPCA***
1431 Maras St	Unknown	Failure to Protect GW*	Scott County Record
1465 Maras St	13 years	Failure to Protect GW*	Scott County Record
1488 Maras St	14 years	Conforming System	Scott County Record
1500 Maras St	Unknown	Failure to Protect GW*	Scott County Record
1393 Stagecoach Rd	Over 21 years	Failure to Protect GW*	Scott County Record
1425 Stagecoach Rd	Unknown	Failure to Protect GW*	Scott County Record
1451 Stagecoach Rd	Over 21 years	Failure to Protect GW*	Scott County Record
1513 Stagecoach Rd	Unknown	ITPHS**	MPCA***

\* GW = groundwater

\*\* ITPHS = Imminent Threat to Public Health or Safety

\*\*\* MPCA = Minnesota Pollution Control Agency

Scott County has been in contact with the owners of 1451 and 1513 Stagecoach Road indicating that the septic systems need to be replaced or the properties connect to sanitary sewer. County staff preference is for sanitary sewer to be extended, citing that the area is highly susceptible to groundwater contamination and that most of the land has been disturbed in some way (e.g. fill, compaction).

### 3.2.2 CSAH 21 Sanitary Sewer Crossing Capacity

The capacities of the existing 12-inch PVC sanitary sewers in Hansen Avenue, CSAH 21, and Old Carriage Road were analyzed to confirm that sufficient capacity exists for projected wastewater flows. The existing pipe capacities are shown in **Table 3-2** below, and the projected flows and residual capacity for these sewers are discussed in Section 4. The pipe segments listed below are highlighted in the Sanitary Sewer Capacity Analysis figure in **Appendix A**.

**Table 3-2 CSAH 21 Sanitary Sewer Crossing Existing Capacity**

Location	Start MH	Stop MH	Slope	Capacity (gpm)*
Hansen Ave	SE327	SE326	0.21%	866
Hansen Ave	SE326	SE325	0.19%	824
Hansen Ave	SE325	SE324	0.21%	866
Hansen Ave	SE324	SE323	0.22%	886
Hansen Ave	SE323	SE322	0.21%	866
Hansen Ave	SE322	SE321	0.20%	845
Hansen Ave	SE321	SE320	0.23%	906
CSAH 21	SE320	SE319	0.26%	964
CSAH 21	SE319	SE318a	0.24%	926
CSAH 21	SE318a	SE318	0.34%	1,102
Old Carriage Rd	SE318	SE317	0.20%	845
Old Carriage Rd	SE317	SE316	0.25%	945

\*Capacities are the full bore pipe capacities of 12-inch diameter PVC with a Manning's n of 0.011 at the slope listed.

Currently, there is no watermain within the majority of the proposed project area. There is existing 12-inch ductile iron pipe (DIP) watermain on 13<sup>th</sup> Avenue and Stagecoach Road which would serve as connection points for the proposed watermain looping. The Shakopee Public Utility Commission also proposes a future connection point for watermain at the eastern boundary of the project within the City of Savage watermain system.

Properties in the project area are served by private wells as summarized in **Table 3-3**. Wells that have been tested for "Arsenic" or "Nitrate" are noted as such under "Condition of Well." The concentrations in the test results ranged from 1.0 to 1.709 micrograms per liter (µg/L) of Arsenic and 0.02 to 1.0 milligrams per liter (mg/L) of Nitrate, and did not exceed the U.S. EPA Maximum Contaminant Levels (MCL) of 10 µg/L and 10 mg/L, respectively. The goal is for these contaminants to be absent from drinking water as long-term consumption of Arsenic increases the risk of diabetes and cancer, and Nitrates pose a risk of serious illness in infants below the age of six months, including shortness of breath and blue-baby syndrome.

In addition to the Arsenic and Nitrates detected in some of the wells, the Phase I & II Environmental Site Assessments indicate that the groundwater in the project area contains levels of barium, cadmium, and selenium that are above the United States Environmental Protection Agency (US EPA) maximum contaminant levels (MCL).

**Table 3-3 Summary of Wells within the Project Area**

Property Address Per MN Well Index	Unique ID	Age of Well	Condition of Well	Information Source
8700 13 <sup>th</sup> Ave E	540201	1994	Active	Well Report (2014)
8800 13 <sup>th</sup> Ave E	500678	1989	Sealed	Well Report (2020)
8855 13 <sup>th</sup> Ave E	427387 427388	1987 1987	Sealed Sealed	Well Report (2014)

Property Address Per MN Well Index	Unique ID	Age of Well	Condition of Well	Information Source
8959 13 <sup>th</sup> Ave E	522945 523384 523385 523386 523387 523388	1993 1993 1993 1993 1993 1993	Sealed Sealed Sealed Sealed Sealed Sealed	Well Reports (2014)
8992 13 <sup>th</sup> Ave E	610447	1999	Active- Nitrate, 1.0 mg/L (04/07/2006)	Well Report (2005)
9016 13 <sup>th</sup> Ave E	585375	1996	Active- Nitrate, 1.0 mg/L (04/7/2007)	Well Report (2014)
9081 13 <sup>th</sup> Ave E	800876	2013	Active- Arsenic, 1.709 µg/L, and Nitrate, 0.02 mg/L (10/22/2013)	Well Report (2013)
9085 13 <sup>th</sup> Ave E	449058	1989	Sealed	Well Report (2018)
9095 13 <sup>th</sup> Ave E	836418	2019	Active- Arsenic, 1.0 µg/L, and Nitrate, 0.5 mg/L (6/27/2019)	Well Report (2019)
9097 13 <sup>th</sup> Ave E	195544	1983	Active	Well Report (2014)
8615 Hansen Ave	632978 830039	2003 2018	Active- Nitrate, 1.0 mg/L (4/7/2006) Active- Arsenic, 1.0 µg/L, and Nitrate, 0.1 mg/L (1/16/2018)	Well Report (2003)
Maras St (possibly 1395 Maras St)	601627	1997	Dewatering	Well Report (2009)
1428 Maras St	510425	1990	Active	Well Report (2014)
8990 Maras St	625976	1999	Active- Nitrate, 0.8 mg/L (4/7/2006)	Well Report (1999)
1393 Stagecoach Rd	502765	1989	Active	Well Report (2014)
1451 Stagecoach Rd	N/A	Over 21 years	Active – Arsenic (concentration not provided)	Owner Survey
1513 Stagecoach Rd	434057 428614	1987 1987	Active Active	Well Reports (2004-2014)
N/A	211814 211820 209936	1976 1976 1976	Active Active Active	Well Records (2014)

### 3.3 Drainage and Storm Sewer

Storm sewer facilities exist on Maras Street, 13<sup>th</sup> Avenue, and Hansen Avenue, ranging in size from 12-inch to 30-inch-diameter concrete pipe. The majority of the existing storm sewer was installed in the late 1990s and is in adequate to good condition, with treatment and rate control provided by two adjacent ponds. Storm sewer design parameters were updated nationwide in 2014 and analysis of the storm sewer system within the project area indicates that majority of the storm sewer is undersized based on the current standards. Undersized locations for the 100-year storm include the low points on Hansen Avenue and on Maras Street. At these locations, models indicate stormwater surcharges exceeding the rim

elevations or reaching the street. However, the City has not reported any significant water or flooding issues in this area. Emergency overflows on the east side of Maras Street have been identified to convey excess runoff to the existing storm water pond. Outdated castings will be replaced. The project does not trigger the Lower Minnesota River Watershed District treatment volume requirement.

A draft study of "9186 Boiling Springs Lane Landlocked Flooding Area" was completed by AE2S March 18, 2020. Once the study is finalized the City will direct what improvements need to be incorporated into the final design of the project.

### 3.4 Phase I & II Environmental

The Phase I Environmental Site Assessment (ESA) was completed in June 2020 and identified eight Recognized Environmental Conditions (REC) within the project area as summarized in **Table 3-4**.

**Table 3-4 Recognized Environmental Conditions (REC) from Phase I ESA**

REC	Rationale	Current Address	Parcel ID
1	Diesel and gasoline USTs and dispensers	8600 Hansen Ave	279120220
2	Diesel AST and dispenser	1500 Maras Street	279120250
3	AST and UST site	1350 Maras Street	270570020
4	Diesel AST and dispenser	1382 Maras Street	270570030
5	VIC, Leak, AST and UST site	1415 Maras Street	270570060
6	AST, UST and SWF/LF site	1315 Maras Street	270570070
7	AST, UST and Historical Spill site	8810 13 <sup>th</sup> Avenue East	279120221
8	Current and Historical Auto Repair Shops	1416-1444 Maras Street	270990020 271510010 271510020 271510030 271510040 271510050

A Phase II ESA was subsequently conducted to evaluate current subsurface soil and groundwater conditions within the project area. Low level petroleum related compounds and lead were observed in select soils samples and barium and chromium were detected in all samples; these are below applicable Minnesota Pollution Control thresholds and/or unregulated fill criteria; therefore, these soils can be reused during construction.

Elevated concentrations of dissolved barium and cadmium were observed in each of the groundwater samples and exceed the High-Risk Limits as established by the Minnesota Department of Health. Sesium levels were high in four of the six groundwater samples and exceed the High-Risk Limits as established by the Minnesota Department of Health. Some of the diesel range organics within the groundwater samples are near the regulatory standards. The table of results from the Phase II ESA are included in **Appendix E**.

### 3.5 Pedestrian Facilities

There are currently no off-road pedestrian or bicycle facilities in the project area. The City has identified potential pedestrian improvement connections in the area which can be included with the Utility Extension project. There are existing pedestrian facilities to the west of the project area, connecting to an existing transit station.



## 4. PROPOSED IMPROVEMENTS

### 4.1 Surface

There are no proposed surface changes associated with the proposed Utility Extension project. Impacted roadways will be replaced at the existing widths and remain an urban street section. Currently, Maras Street and Hansen Avenue are 36 feet wide, and 13<sup>th</sup> Avenue is 44-feet wide. A 10-ton roadway design is recommended for the roadway reconstructions due to the light-industrial facilities within the project area. If State Aid funding is pursued for this project, State Aid design standards will be reviewed for 13<sup>th</sup> Avenue during final design. Streets will only be reconstructed where utilities are replaced within the roadbed.

During preliminary utility design, alignment and installation options to save curb and gutter were investigated. Due to the additional utility installation costs and potential easement needs, it would not be cost-effective to save all curb and gutter. For this report, the total replacement of curb and gutter is accounted for in the project cost, during construction the curb and gutter will be saved when feasible.

### 4.2 Sanitary Sewer

There are no existing sanitary sewers within the study area and is therefore proposed to be extended to service properties within the project area. As noted in **Table 3-1** of this report, there are three systems that are "Imminent Threat to Public Health or Safety", ten systems that are "Failure to Protect Groundwater" and eight conforming systems. Extending sanitary sewer in conjunction with a street improvement project is preferred to installation of the utility independently as it is more cost-effective and minimizes disruption to the property owners.

The nearest existing sanitary sewer is a 12-inch PVC sanitary sewer in Hansen Avenue at the west side of the intersection at Stagecoach Road. The 12-inch PVC plug at this location has an invert elevation of 731.7 feet and the lowest ground elevation within the study area (excluding stormwater ponds) is approximately 734 feet, therefore the area cannot be served by gravity. A sanitary sewer lift station will be required to service this area, consistent with the City of Shakopee Sanitary Sewer Master Plan, dated January 2019.

The proposed extension of sanitary sewer on Maras Street and Hansen Avenue includes 8-inch, 10-inch, and 12-inch-diameter PVC pipe, installed through open-cut trenching. Sanitary sewer pipe sizing for the 6-inch forcemain is based on the ultimate developed capacity for the broader Boiling Springs Area, which extends south of the project area. The sizing for the gravity fed sanitary sewer was determined to ensure adequate service capacity for the light industrial facilities in the area, and future developments to the south (see attached proposed lift station service area map, **Appendix A, Figure 3**).

The proposed extension of sanitary sewer on 13<sup>th</sup> Avenue includes 8-inch PVC pipe, gravity fed from existing development, with sizing determined by the City of Shakopee. Four installation methods were examined for 13<sup>th</sup> Avenue:

- Option A, open-cutting the utilities within the southern boulevard, was not evaluated for further consideration due to the expense and timing to acquire the easements necessary to construct the utilities.
- From a technical standpoint, Option B, open-cutting the utilities within the roadway, is the preferred installation method on 13<sup>th</sup> Avenue as the utilities would be installed at the preferred alignment and services would be stubbed to the right of way line.
- Option C, open-cutting the utilities within the northern boulevard, was not evaluated for further consideration due to the amount of open cut that would be required to extend services to the properties on 13<sup>th</sup> Avenue and a potential pipeline conflict.

- The construction method for Option D, directionally drilling the utilities within the southern boulevard, was investigated as part of the preliminary design to minimize disruption to the surface.

For Option D we anticipate that three drilling pits would be necessary: one on each end of 13<sup>th</sup> Avenue and one at the intersection of Maras Avenue. While the cost per lineal foot is higher than open cut, this method would reduce street reconstruction costs; however, directional drilling would require boulevard restoration and potential easement acquisition rather than staying within the existing right of way. Directional drill contractors indicate that 1% is the minimum grade that can be set for the pipe, whereas 0.4% pipe grade can be achieved with an open cut method. Due to the geography of the project area the grade of the sanitary sewer needs to be as low as possible so that the homes on 13<sup>th</sup> Avenue can be served by gravity to the extent possible, therefore, directional drilling is not a practical option in this instance.

It is recommended that the project plans incorporate Option B, the open-cut method for sanitary sewer installation in 13<sup>th</sup> Avenue. Implementing this option will keep the sewer elevation as low as possible in effort to provide gravity service to the homes and reduce the likelihood for the cost and project delays associated with permanent easement acquisition. Option B will also provide a greater value due to the reconstruction of the existing 30-year old roadway.

The ground floor elevations of the homes were estimated using the two-foot contours on the Scott County GIS map and are shown in **Table 4-1** along with the proposed invert elevation of the sanitary sewer and the observed groundwater elevations. Due to the age of the homes along 13<sup>th</sup> Avenue the City's property files do not contain the low floor elevations. During final design it is recommended that the lowest floor elevations of the homes be determined so that the final sanitary sewer design can accommodate gravity service to the extent practicable.

**Table 4-1 Low Floor Elevation on 13<sup>th</sup> Avenue**

Address	Estimated Ground Floor Elevation	Proposed Invert Elevation of Sanitary Sewer	Groundwater Elevation Observed at Nearest Soil Boring
8992 13 <sup>th</sup> Ave E	742'	729'	731' (Boring 3)
9016 13 <sup>th</sup> Ave E	741'	730'	729.5' (Boring 2)
9040 13 <sup>th</sup> Ave E	741'	730'	729.5' (Boring 2)
9064 13 <sup>th</sup> Ave E	742'	731'	729.5' (Boring 2)
9100 13 <sup>th</sup> Ave E	N/A – Vacant Property	733'	729.5' (Boring 2)

Sanitary sewer stubs will be provided out to all buildable lots within the project area. For the residential properties on the private drive off 13<sup>th</sup> Avenue, a sanitary sewer stub will be installed at the intersection manhole for future connection. The location of these stubs in the preliminary design are based on the location of septic systems provided to the project team. The sewer stub locations will be verified as part of final design and adjusted as needed in the field with property owner input. Property owners will have three years to connect to sanitary service, per City ordinance.

#### **4.2.1 Ultimate Sanitary Sewer Capacity**

The wastewater flows anticipated within the study area, as well as a portion of the downstream sewer tributary area, were projected in order to evaluate the existing sewer capacity and to size the future lift station. The projected wastewater flows are shown in **Table 4-2** below, and the corresponding areas are shown in **Appendix A, Figure 3**. The land uses, densities, and residential/non-residential percentages used to calculate the future or estimated flows were

provided by the City and are based on the Planned Land Use from the 2040 Comprehensive Plan.

**Table 4-2 Wastewater Flow Projections**

Land Use	Assumed Flow (gpd/acre)	Area (acres)	Average Flow (gpd)	Peak Hourly Flow Factor	Peak Hourly Flow (gpm)
<b>Future Lift Station</b>					
Mixed Employment Center	1,600	80.65	129,040		
Suburban Edge Residential (Boiling Springs Area)	263	163.73	42,979		
Utilities	0	5.00	0		
<b>Lift Station Sub-Total</b>			<b>172,019</b>	<b>3.9</b>	<b>466</b>
Mixed Employment Center (Gravity along Stagecoach Rd)	1,600	27.99	44,784		
<b>East of Stagecoach Sub-Total</b>			<b>216,803</b>	<b>3.8</b>	<b>572</b>
<b>CSAH 21 Gravity Crossing</b>					
<i>Existing</i>					
Mixed Residential	1,125	23.82	26,798		
Mixed Use Commercial Center	800*	35.82	28,656		
Suburban Residential	675	16.73	11,293		
<b>Existing Sub-Total (including Lift Station)</b>			<b>283,549</b>	<b>3.7</b>	<b>729</b>
<i>Ultimate</i>					
Mixed Residential	1,125	9.53	10,721		
Mixed Use Commercial Center	800*	12.32	9,856		
Mixed Use Commercial Center	2,280*	6.07	13,840		
Suburban Edge Residential	263	12.12	3,182		
<b>Ultimate Total</b>			<b>321,148</b>	<b>3.6</b>	<b>803</b>

\* Existing development within the Mixed-Use Commercial Center areas is strictly non-residential. Therefore, the assumed flow for both existing and future development within these areas is 800 gpd/acre. The portion which is planned for apartments uses 2,280 gpd/acre.

#### 4.2.2 CSAH 21 Sanitary Sewer Crossing Capacity Analysis

The projected wastewater flows from **Table 4-2** were assigned to the sanitary sewers from **Table 3-2** to evaluate the ability of the existing system to convey the additional sewage. The projected peak hourly flows at two stages of development are shown in **Table 4-3**. The first stage includes existing development between CSAH 21 and Stagecoach Road, as well as the proposed lift station and gravity flow east of Stagecoach Rd. The second stage is ultimate development and includes developable areas between CSAH 21 and Stagecoach Road.



**Table 4-3 CSAH 21 Sanitary Sewer Gravity Main Residual Capacity**

Location	Start MH*	Stop MH*	Capacity (gpm)**	Peak Hourly Flow (gpm)***	Residual Capacity (gpm)***	Ultimate Peak Hourly Flow w/Bolling Springs Area (gpm)	Ultimate Residual Capacity w/Bolling Springs Area (gpm)
Hansen Ave	SE327	SE326	866	572	294	572	294
Hansen Ave	SE326	SE325	824	572	252	572	252
Hansen Ave	SE325	SE324	866	572	294	572	294
Hansen Ave	SE324	SE323	886	572	314	572	314
Hansen Ave	SE323	SE322	866	729	137	803	63
Hansen Ave	SE322	SE321	845	729	116	803	42
Hansen Ave	SE321	SE320	906	729	178	803	103
CSAH 21	SE320	SE319	964	729	235	803	161
CSAH 21	SE319	SE318a	926	729	197	803	123
CSAH 21	SE318a	SE318	1,102	729	373	803	299
Old Carriage Rd	SE318	SE317	845	729	116	803	42
Old Carriage Rd	SE317	SE316	945	729	216	803	142

\* Refer to Appendix A, Figure 3 for manhole locations.

\*\* Capacities are the full bore pipe capacities of 12-inch diameter PVC with a Manning's n of 0.011 at the slopes listed in Table 3-3.

\*\*\* Includes the existing development, gravity flow within the Hansen/Maras area, and the maximum pumping rate of the proposed lift station.

The reviewed existing sanitary sewer segments have adequate capacity for the proposed lift station flow, but several are projected to approach ninety-five percent (95%) of their capacity during worst-case ultimate peak hourly flows. Final design of the lift station can include variable frequency drives (VFDs) and additional storage volume to spread out and therefore reduce the peak hourly flow. It is recommended to monitor actual flows as development progresses.

This monitoring includes the Southbridge Lift Station located downstream of these sewers, just north of the intersection of Southbridge Parkway and Old Carriage Road. The Southbridge Lift Station has two submersible pumps with design points of 1,000 gpm at 23 feet total dynamic head (TDH), therefore the lift station's firm capacity is approximately 1,000 gpm. The exact pumping rate can be confirmed with a pump drawdown test. Pump runtimes should be monitored at this lift station as development progresses, and additional evaluation should be completed if the runtimes become long. This lift station is scheduled to be evaluated and rehabilitated in 2022.

#### **4.2.3 Hansen Avenue Lift Station**

Based on the projected peak hourly flow within the lift station service area from **Table 4-3**, which includes the future connection of the Boiling Springs area, the lift station will require a minimum flow capacity of 466 gpm. The proposed lift station capacity is 500 gpm. The majority of the flow to the lift station will be from the Mixed Employment Center area in the future, which is anticipated to connect over an anticipated period of three years or more. Therefore, no phasing of the lift station structures, pumps, or forcemain is anticipated to be necessary.

Based on ground elevations within the lift station service area and the location of the receiving gravity sewer, the intersection of Hansen Avenue and Maras Street is a suitable location for the lift station. At this location, the lift station wet well will be 25 to 30 feet deep. Based on a firm capacity of 500 gpm, the lift station will need a 10-foot diameter wet well. Either a 6-inch or 8-inch-diameter forcemain is feasible. At the ultimate peak hourly flow of 500 gpm, a 6-inch pipe would have a velocity of 5.7 ft/s, while an 8-inch pipe would have a velocity of 3.2 ft/s. The smaller 6-inch pipe would generate more headloss and therefore would require slightly larger pumps at the ultimate peak hourly flow rate. The larger 8-inch pipe would have less headloss, but it would require a minimum flow rate of 320 gpm in order to maintain a minimum velocity of 2 ft/s. This should be considered if VFDs are used and the pumps initially operate at a lower frequency and flow rate. Based on the use of VFDs and the flow rate, a 6-inch forcemain is preferred and planned.

A shallow marsh wetland exists to the west of the proposed lift station location. This is a jurisdictional wetland according to the Wetland Conservation Act therefore a wetland delineation should be completed before improvements are constructed. Any impacts to the wetland need to be permitted.

#### **4.3 Watermain**

The proposed extension of watermain on Maras Street and Hansen Avenue includes 12-inch-diameter ductile iron pipe, installed through open-cut trenching. As noted in **Table 3-3**, Well Reports indicate that seven of the 15 active private wells contain arsenic and/or nitrates. Groundwater samples obtained with the Phase II Environmental Site Assessment indicate that barium, cadmium, and selenium that are above the United States Environmental Protection Agency (US EPA) maximum contaminant levels (MCL). Extending watermain in conjunction with a street improvement project is preferred to installation of the utility independently as it is more cost-effective and minimizes disruption to the property owners.

The watermain sizing was determined by the Shakopee Public Utility Commission (SPUC) to ensure adequate service flow to the light-industrial facilities and future developments. Due to the high-water table, zinc coating and poly-wrap are required by SPUC for all ductile iron water pipes.

As required by the Shakopee Public Utility Commission watermain improvements along the east side of Stagecoach Road include the installation of 12-inch-diameter ductile pipe loop from 13<sup>th</sup> Avenue to Hansen Avenue, then south of Hansen Avenue for approximately 650 feet. The ultimate roadway and trail section for Stagecoach Road will be considered when designing the location and depth of the watermain.

In conjunction with the sanitary sewer preliminary design analysis, four installation options were proposed for the watermain on 13<sup>th</sup> Avenue. The installation methods included both open-cut and directionally drilled options for the watermain. The watermain installation method will be determined by, and match, the installation method for the sanitary sewer on 13<sup>th</sup> Avenue. The watermain that will be installed within 13<sup>th</sup> Avenue can ultimately service the properties to the south of this road. This can be achieved by extending the watermain through the private drive based on resident and property owner request.

Property owners will have three years to connect to water service, per City ordinance. Water service stubs will be installed to all buildable lots within the project area. The location of these stubs has been preliminarily determined based on the location of the existing well where the project team had that information; this should be verified as part of final design and in the field with the property owner.

#### **4.4 Drainage and Storm Sewer**

No significant drainage improvements are proposed with this project. Minor storm sewer replacements are proposed on 13<sup>th</sup> Avenue to facilitate the installation of watermain and sanitary sewer. Due to the depth of the new utilities, the storm sewer crossings will need to be removed and replaced to avoid conflicts during the installations. Removing and replacing only the small portions of conflicting storm sewer is cost effective for both the installation of the utilities and the overall drainage costs. The existing storm sewer is in adequate condition.

The industry design parameters for storm sewer design have been updated since this storm sewer system was installed. Storm sewers are designed to convey runoff from a 10-year event, meaning there is a 1 in 10, or 10% chance of a storm of this intensity in a given year. The 100-year event, which has a 1% chance of occurring in a given year is used to design storm ponds and low points adjacent to roadways. The 100-year event for the project area was analyzed and indicates that the storm sewer surcharges on Hansen Avenue and Maras Street. No significant drainage concerns have been identified in the area by the City or property owners therefore it is recommended to leave the existing storm sewer in place where feasible and replace manhole castings. Future development should be required to implement onsite rate control or retention measures.

#### **4.5 Pedestrian Facilities**

The City's Design Guidelines and Capital Improvement Plan recommend the installation of sidewalks within reconstructed street corridors. The proposed project area is part of an identified trail corridor in the Comprehensive Plan to improve pedestrian connectivity in the City. Walkability between homes and amenities is generally desirable, and this project provides the opportunity to extend sidewalks from the residential area on 13<sup>th</sup> Avenue to public transit and the multitude of shopping and restaurant experiences to the west of Stagecoach Road. Similarly, employees within the non-residential areas of the project could utilize the sidewalks during a lunch break to go for a walk or to walk to a nearby restaurant.

Including sidewalk installation with this project instead of a future sidewalk extension project is more cost-effective as restoration costs would only be incurred with once, and unit prices are typically lower in a large-scale project. Additionally, this approach would minimize property owner inconvenience associated with construction and restoration activities.

During the first neighborhood meeting, and in the Property Owner Survey, multiple property owners in the area opine that sidewalks are not necessary. Sidewalk/Trail improvements will be assessed with surface improvements, per the City's Assessment Policy. See **Appendix A** for the proposed sidewalk locations.

#### **4.6 Streetlights**

Nine (9) streetlights are proposed to be installed with the project, as shown in **Appendix A**. Per the City of Shakopee's Street Lighting policy for new developments, streetlights are at all intersections, as well as at approximately 450-foot intervals where intersections are spaced more than 675-feet apart. The lighting placement was chosen based on the recommended spacing, the distance of the intersections, and the locations of existing driveways, lighting, and other facilities. There are multiple properties within the project area with existing private lighting for parking lots or entrances, as well as two existing streetlights on Stagecoach Road at the intersections of 13<sup>th</sup> Avenue and Hansen Avenue. Most property owners that expressed an opinion on installing additional streetlights with this project indicated that they are not necessary. Streetlight improvements will be assessed with surface improvements, per the City's Assessment Policy.

#### **4.7 Right-of-Way**

It is anticipated that work will take place within the existing roadway right-of-way or within existing roadway, drainage and utility easements. Based on the preliminary design and existing roadway locations, the easement on Hansen Avenue is 60 feet wide and sufficient for all proposed improvements including the lift station at the intersection of Hansen Avenue and Maras Street. Temporary construction access on private property may be required to accommodate driveway repair, water/sewer service installation, and final boulevard grading. Written permission or waiver of trespass agreements will be secured from private property owners for these encroachments to the greatest extent possible.

#### **4.8 Permits/Approvals**

Permits will be necessary from the following agencies:

- National Pollution Discharge Elimination System (NPDES) Permit
- Minnesota Pollution Control Agency (MPCA) Sewer Extension Permit
- Metropolitan Council Environmental Services (MCES) Sanitary Sewer Extension Permit
- Minnesota Department of Health (MDH) Extension of Water Main Permit
- Minnesota State Aid (MSA) Approval for 13<sup>th</sup> Avenue, a State Aid Route
- Minnesota Wetland Conservation Act (WCA) for any Wetland Impacts

#### **4.9 Public Involvement**

A Virtual Open House meeting for property owners was held on July 21, 2020. Preliminary information was available to property owners regarding the concept plans and impacts associated with the project. Approximately 12 property owners were in attendance, as well as City staff, Shakopee Public Utility Commission representatives, and WSB engineering representatives. The primary feedback given related to the assessment costs. Due to technical issues during the July 21, 2020, Virtual Open House, a second virtual meeting was held on August 28, 2020, and included the proposed assessment methodology. Approximately eight property owners were in attendance, as well as City staff, Shakopee Public Utility Commission representatives, and WSB engineering representatives. The primary feedback given related to the assessment methodology and payback, project costs, and project timeline.

Surveys were sent to all property owners in the project area with questions regarding the sanitary sewer and watermain extensions, existing septic systems, wells, and street improvements. Sixteen survey responses were received by the City, six by mail and ten online; survey responses are included in **Appendix F**.

## **5. FINANCING**

### **5.1 Opinion of Probable Cost**

The total project cost is estimated to be **\$5,368,000** for the open cut installation of the utilities within all streets. If the sanitary sewer and watermain along 13<sup>th</sup> Avenue are installed by a directional drill method, the total project cost is estimated to be **\$5,212,000**. Although the construction cost is lower for the directional drill method, it does not include the cost for necessary additional easements for the work to be completed, or the added value of new roadway surfaces on 13<sup>th</sup> Avenue. A detailed breakdown of the cost opinions for the proposed options can be found in **Appendix B** of this report. The opinion of cost incorporates estimated construction costs and includes a 10% contingency factor. Indirect costs are projected at 20% of the estimated construction cost and include legal, engineering, administrative, and financing.

### **5.2 Funding**

The funding for the Utility Extension project is proposed to come from a combination of City funds, special assessments, and City fees to benefiting property owners.

Assessments are based on actual project costs and will be certified with the County. If they are not paid in full at the time of construction for Street Assessments or at the time of connection for Sanitary and Water Assessments, they will be levied with taxes. The special benefit analysis completed for this project indicates that the benefit on Maras Street and Hansen Avenue for street reconstruction and extension of municipal sewer and water ranges between \$40,000 and \$50,000 per developable acres for typical lots; the benefit on 13<sup>th</sup> Avenue for street reconstruction and extension of municipal sewer and water is \$40,000 or lower per developable acres for typical lots; the benefit for the extension of municipal sewer and water only ranges from \$26,000 to \$32,000 per developable acre on typical lots; and the benefit for 13<sup>th</sup> Avenue street reconstruction only is at or below \$14,000 per developable acre for typical lots.

The Lateral Sanitary Sewer Connection Charge and will be paid at the time of connection and is based on the project costs within this report. The remaining fees are based on standard City rates relating to the operation and management of the trunk system.

Property owners may be eligible for a Minnesota Department of Health Source Water Protection Implementation grant to subsidize the cost of well sealing. Historically, these grants have been offered annually and it is anticipated that they will be available for the next few years.

#### **5.2.1 Fees to be paid when the project is constructed**

Benefiting properties will pay a portion of the street costs and the sanitary sewer and watermain costs by special assessments levied in conjunction with the project.

*13<sup>th</sup> Avenue, Maras and Hansen Street Assessment: \$10,329.90/developable area. Pays for 30% of the street reconstruction cost. The street assessment area for corner lots on Hansen Avenue and Stagecoach are based on the percentage of property frontage to Hansen Avenue.*

#### **5.2.2 Fees collected when a permit application is made to connect to the utility**

The City recoups the utilities portion of the improvement costs when the properties connect to the utility. Fees collected when a permit application is made to connect to the utility are described in 2020 dollars.



**Lateral Sanitary Sewer Connection Charge – Gravity Sewer Only: \$4,625.41/ developable area.** Pays for the cost to install the local sanitary sewer mains, manholes and services.

**Lateral Sanitary Sewer Connection Charge – Gravity Sewer and Forcemain: \$5,076.56/ developable area.** Pays for the cost to install the local sanitary sewer mains, manholes and services, as well as the connection charge for the lift station. This lateral fee is based on the cost to install an 8-inch gravity sanitary sewer that is 12 feet deep at the connection point at Stagecoach Road, which is \$481,581.06.

**Water Assessment: \$14,802.63/ developable area.** Pays for the cost to install the watermain.

**Trunk Sanitary Sewer Charge: \$2,982.00/ developable area.** The Trunk Sanitary Sewer Charge is applied to all properties within the City Limits south of Highway 169 and all property annexed into the City. The charge is collected on the developable acreage of the property. This charge is used to fund the construction and maintenance of City-owned trunk sanitary sewers (for oversizing greater than 8 inches). Commercial and industrial properties will be charged based on the parcel area. Rural residential properties will be charged based on a land area of 0.30 acres, which is the minimum lot size for a low-density residential property.

**City Sewer Availability Charge: \$515.00/SAC unit.** The City SAC is collected using the number of SAC units as calculated by Met Council and is applied to all building permits in the City. This charge is the "sewer access charge" and covers the depreciation and replacement of the sanitary sewer system.

**Table 5-1 SAC Count for City Sewer Availability Charge**

Land Use	Mixed Employment Center	Suburban Edge Residential
Residential Units per Acre Allocated	16	1
Non-Residential Flow per Acre (gpad)	800	N/A
Non-Residential Flow per SAC (gpd/SAC)	274	N/A
Residential Percentage (%)	50%	100%
Non-Residential Percentage (%)	50%	0%
Net Area (ac)	80.65	163.73
Residential SAC Units	645	164
Non-Residential SAC Units	118	0
Total SAC Units	763	164

**Metropolitan Council Environmental Services Sewer Access Charge (MCES SAC): \$2,485.00/SAC unit.** The City sanitary sewer system connects to the MCES system and is treated at an MCES facility.

**Trunk Water Charge (TWC): \$4,451.00/ acre.** The Trunk Water Charge is applied to all properties within the City Limits south of Highway 169 and all property annexed into the City. The charge is collected on the developable acreage of the property. This charge is used to fund the construction and maintenance of City-owned trunk watermain (i.e. water main that is larger than 8 inches in diameter).

**Water Connection Charge (WCC): \$6,039.00/SAC.** In certain situations, the City pays the initial cost to extend water service through a property/area. A water connection charge is then developed and is charged to future development that utilize that water system.

**Table 5-2 Fees Collected for this Project**

Type of Fee		Current Fee	Basis of Cost	When Fee is Collected
Street Assessment – All Streets		\$10,329.90/ Developable Area	Project Costs	Levied with the Project
Lateral Sanitary Sewer Connection Charge	Gravity Sewer	\$4,625.41/ Developable Area	Project Costs	Paid at the Time of Connection
	Forcemain	\$5,076.56/ Developable Area	Project Costs	
Watermain Assessment		\$14,802.63/ Developable Area*	Project Costs	
Trunk Sanitary Sewer Charge		\$2,982.00/ Developable Area	Set Unit Fee	
City Sewer Availability Charge		\$515.00/ SAC Unit	Set Unit Fee	
Metropolitan Council Environmental Services Sewer Access Charge		\$2,485.00/ SAC Unit	Set Unit Fee	
Trunk Water Charge		\$4,451.00/ Acre *	Set Unit Fee	
Water Connection Charge		\$6,039.00/ SAC Unit *	Set Unit Fee	

*Note: All assessments and unit fees are subject to change, final assessments and fees will be calculated at the end of the project.*

\* SPUC Charges

### **5.2.3 Other fees**

The **Sewer Service Charge** is collected via monthly utility billing and is based on the water/sewer usage of each property. This charge covers the Met Council sewer charge and routine maintenance and operation of the sanitary sewer system.

A breakdown of the proposed funding sources for this project is shown in **Table 5-3b** below.



**Table 5-3a Proposed Project Costs – Open Cut Utility Installation for All Streets**

	Estimated Construction Cost	Contingencies (10%)	Administration, Engineering, Legal (20%)	TOTAL ESTIMATED COST
Surface Improvements – All Streets	\$2,230,000	\$223,000	\$490,000	<b>\$2,943,000</b>
Storm Sewer	\$49,000	\$5,000	\$11,000	<b>\$65,000</b>
Watermain	\$1,088,000	\$109,000	\$239,000	<b>\$1,436,000</b>
Sanitary Sewer	\$305,000	\$30,000	\$67,000	<b>\$402,000</b>
Sanitary Sewer Forcemain	\$37,000	\$4,000	\$8,000	<b>\$49,000</b>
Lift Station	\$358,000	\$36,000	\$79,000	<b>\$473,000</b>
<b>TOTAL COSTS</b>	<b>\$4,067,000</b>	<b>\$407,000</b>	<b>\$894,000</b>	<b>\$5,368,000</b>

**Table 5-3b Proposed Project Funding – Open Cut Utility Installation for All Streets**

	Special Assessments	Capital Improvements Fund	Storm Sewer Fund	Sanitary Sewer Fund	SPUC Water Fund	TOTAL ESTIMATED FUNDS
Surface – 13 <sup>th</sup> , Maras, and Hansen	\$826,200	\$1,927,800				<b>\$2,754,000</b>
Storm Sewer			\$65,000			<b>\$65,000</b>
Watermain *					\$1,530,000	<b>\$1,530,000</b>
Gravity Sanitary Sewer *				\$497,000		<b>\$497,000</b>
Sanitary Sewer Forcemain				\$49,000		<b>\$49,000</b>
Lift Station				\$473,000		<b>\$473,000</b>
<b>TOTAL FUNDS</b>	<b>\$826,200</b>	<b>\$1,927,800</b>	<b>\$65,000</b>	<b>\$1,019,000</b>	<b>\$1,530,000</b>	<b>\$5,368,000</b>

\* Stagecoach Road Surface Costs Included in Sanitary Sewer and Watermain Assessments

There are two properties on Hansen Avenue that have frontage to a street that is not included in the proposed Street Assessment, therefore, the proposed Street Assessment Area is based on the percentage of the properties' frontage to Hansen Avenue.

The assessments constitute 51% of the total project funding. The preliminary assessment roll and preliminary assessment map can be found in **Appendix C**.

## 6. PROJECT SCHEDULE

The proposed schedule for the Project Name is as follows:

Authorize Feasibility Report .....	May 8, 2020
Public Engagement Meeting .....	July 21, 2020
Second Public Engagement Meeting.....	August 28, 2020
City Council Accepts Feasibility Report.....	February 2021
Final Design.....	Summer/Fall 2021
Begin Construction .....	Spring 2022
Substantial Completion .....	Fall 2022

## **7. FEASIBILITY AND RECOMMENDATION**

The improvements proposed in this study for the Utility Extension project on Maras Street, 13<sup>th</sup> Avenue, and Hansen Avenue are necessary, feasible, and cost-effective. The proposed improvements include the extension of watermain and sanitary sewer on Maras Street, 13<sup>th</sup> Avenue, and Hansen Avenue, street reconstruction on 13<sup>th</sup> Avenue, Hansen Avenue and Maras Street, drainage improvements, and pedestrian improvements.

The total estimated project costs for the Utility Extension project is **\$5,368,000** for open cut installation within all streets. The project is to be funded through special assessments to benefiting property owners, grant funding, and City funds. The proposed improvements constitute a project large enough to ensure a competitive bidding environment and economy of scale.

## **APPENDIX A**

- Figure 1 – Project Location**
- Figure 2 – Proposed Utility Locations**
- Figure 3 – Sanitary Sewer Capacity Analysis**
- Figure 4 – Proposed Pedestrian Facilities**
- Figure 5 – Streetlight Map**





## Proposed Utility Extension Service Area

City Project-21-001  
Shakopee, MN

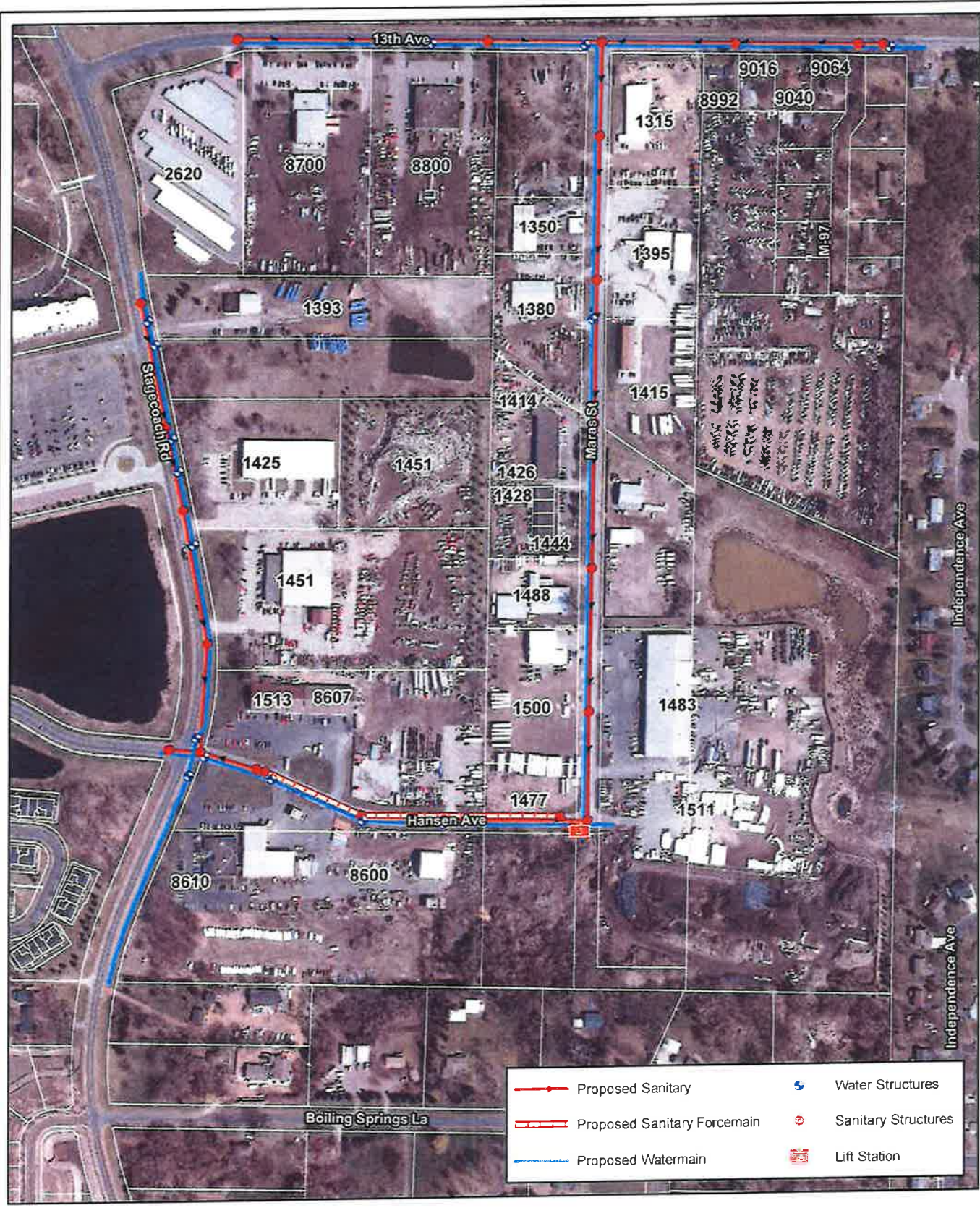


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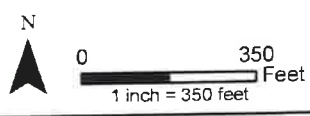




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**Proposed Utility Extension on  
Maras Street, 13th Street, Hanson Avenue**  
City Project-21-001  
Shakopee, MN





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PO Box 470 • 255 Sarazin Street  
Shakopee, Minnesota 55379  
Main 952.445-1988 • Fax 952.445-7767  
[www.shakopeeutilities.com](http://www.shakopeeutilities.com)

TO: Greg Drent, General Manager   
FROM: Joseph D. Adams, Planning & Engineering Director  
SUBJECT: Semi-Final Capital Improvement Plan for 2022-2026   
DATE: October 28, 2021

#### ISSUE

The Semi-Final Capital Improvement Plan for 2022-2026 is submitted for consideration by the Commission at their November 1, 2021 meeting. I will present the plan and take questions during the meeting.



**Shakopee Public Utilities  
Capital Improvement Plan  
Semi-Final  
Dated:10-27-2021  
  
Administrative Summary**

Item Description			Justification	2021 Carryover	2022	2023	2024	2025	2026
General Office Equipment			See detail	30,400	148,900	100,000	100,000	130,000	100,000
Hardware			See detail	234,322	846,322	165,000	225,000	163,000	148,000
Software			See detail	50,000.00	1,062,590	150,000	50,000	50,000	50,000
<b>Total Administrative</b>				<b>314,722</b>	<b>\$2,057,812</b>	<b>\$415,000</b>	<b>\$375,000</b>	<b>\$343,000</b>	<b>\$298,000</b>
<b>Cumulative Total Administrative</b>					<b>\$2,372,534</b>	<b>\$2,787,534</b>	<b>\$3,162,534</b>	<b>\$3,505,534</b>	<b>\$3,803,534</b>
			Electric		\$1,543,359	\$311,250	\$281,250	\$257,250	\$223,500
			Water		\$514,453	\$103,750	\$93,750	\$85,750	\$74,500

**Shakopee Public Utilities  
Capital Improvement Plan  
Semi-Final  
Dated: 10-27-2021  
Administrative Detail**

Type	Item	Source of Request	Justification	Qty	Unit Cost	2021 Carryover	2022	2023	2024	2025	2026
Gen Office Equipt	General office equipment	F&A - IT	General equipment replacements			15,000	100,000	100,000	100,000	100,000	100,000
Furn & Equipment	Standing workstation	F&A-IT/Cust Svc/Eng/Admin	Employee Health and Wellness	14	1,100	15,400	15,400	-	-	-	-
Gen Office Equipt	Conerence Room D Sharp Aquos Interactive Board	Plan/Eng, Water, Electric	Map Display for Meetings/Presentations/Training/Conferences				15,000	-	-	-	-
Gen Office Equipt	Commission Room addition of 2 new Vaddio touch screen monitors	Plan/Eng, Water, Electric	Upgrading Vaddio multi-function touch screen monitors		15,000		15,000	-	-	-	-
Gen Office Equipt	Comission Room add mic tracking for video	Plan/Eng, Water, Electric	Upgrade for video recording to track active microphone		3,500		3,500	-	-	-	-
Gen Office Equipt	Copier & Fax Upgrades	F&A - IT	Replace Aging Equipment	3	10,000		-	-	-	30,000	-
<b>Total General Office Equipment</b>						<b>30,400</b>	<b>148,900</b>	<b>100,000</b>	<b>100,000</b>	<b>130,000</b>	<b>100,000</b>
Hardware	Replacement computers	F&A - IT	Replace aging Equipment (staff addition in Plan/Eng covered)	10	1,000	10,000	40,000	20,000	20,000	20,000	20,000
Hardware	Server room UPS maintenance/battery replacement	F&A - IT	Uninterrupted power supply & battery back up replacement	1	2,000	54,254	54,254	2,000	2,000	2,000	2,000
Hardware	Fiber Ring /INET Connectivity	F&A - IT	Connectivity/Redundancy for systems/remote sites			100,000	500,000	-	-	-	-
Hardware	Network Switches	F&A - IT	Future Standard Replacement Cycle			60,000	60,000	-	-	60,000	-
Hardware	ShoreTel Phones	F&A - IT	Replace aging phones - compatible with Mitel	10	600	6,000	6,000	6,000	6,000	6,000	6,000
Hardware	Security Cameras for front lobby/desk	F&A - IT	Extra security for CSR's at desk in front lobby	3	1,355.89	4,068	4,068	-	-	-	-
Hardware	Miscellaneous Hardware	F&A - IT	Future planning/Unplanned replacements			-	75,000	75,000	75,000	75,000	75,000
Hardware	65" Display for computer data	Water	Need for large perational monitor for pump houses	1	1,000	-	1,000	-	-	-	-
Hardware	HPE Nimble SAN Expansion	F&A - IT	With all the digitizing of paper without a plan need to add storage		47,000	-	47,000	-	-	-	-
Hardware	Plan/Eng Monitor Upgrades	Plan/Eng	Plan/Eng need to upgrade to larger monitors	14	1,000	-	14,000	-	-	-	-
Hardware	Firewall	F&A - IT	Replace product reaching end of life support			-	45,000	-	-	-	45,000
Hardware	HPE Aruba AP Replacements	F&A - IT	Aruba Aps end of life need replacement		30,000	-	-	30,000	-	-	-
Hardware	HPE Storeonce Veeam Storage Expansion	F&A - IT	Local Veeam backup storage expansion		22,000	-	-	22,000	-	-	-
Hardware	Plan/Eng Plotter Replacement	Plan/Eng	Plan/Eng HP plotter is 5 years old future replacement		10,000	-	-	10,000	-	-	-
Hardware	Remit Plus Scanners - Payment Processing	Cust. Service	Scanner Replacements	3	4,000	-	-	-	12,000	-	-
Hardware	VMware HP DL380p Server - Add Host machine	F&A - IT	Replacement of existing equipment			-	-	-	100,000	-	-
Hardware	Water Scada System Replacements	Water	Server/Workstation 6 years old/needs upgrade to Windows 10	2	5,000	-	-	-	10,000	-	-
<b>Total Hardware</b>						<b>234,322</b>	<b>846,322</b>	<b>165,000</b>	<b>225,000</b>	<b>163,000</b>	<b>148,000</b>
Software	Microsoft Visio 2019	F&A - IT	Standalone copy Visio 2019	10	517	-	5,170	-	-	-	-
Software	Microsoft Office 2019 Professional Plus	F&A - IT	Standalone copy Office Professional Pkus 2019	15	548	-	8,220	-	-	-	-
Software	Microsoft Office 365	F&A - IT	Microsoft Office 365 Cloud Solution	80	240	-	19,200	-	-	-	-
Software	Software Conversion - CIS & Finance	F&A - IT	Daffron replacement software			-	900,000	100,000	-	-	-
Software	Document management	F&A - IT	Document management digitilizing project			-	80,000	-	-	-	-
Software	Software	F&A - IT	Misc/Future budgeting			50,000	50,000	50,000	50,000	50,000	50,000
<b>Total Software</b>						<b>50,000</b>	<b>1,062,590</b>	<b>150,000</b>	<b>50,000</b>	<b>50,000</b>	<b>50,000</b>
<b>Total CIP Expenditures - Administration</b>						<b>314,722</b>	<b>2,057,812</b>	<b>415,000</b>	<b>375,000</b>	<b>343,000</b>	<b>298,000</b>

**Shakopee Public Utilities  
Capital Improvement Plan  
Semi-Final  
Dated: 10/27/2021  
Water Summary**

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Item Description	Justification	2021 Carryover	2022	2023	2024	2025	2026
<b>Operating Fund</b>							
Miscellaneous	See Detail	-	368,000	286,000	285,000	285,000	285,000
System Upgrades	See Detail	-	207,000	120,000	125,000	2,020,000	2,105,000
Advanced Metering Infrastructure (AMI)	See Detail	-	796,701	2,640,000	2,640,000	-	-
Vehicles/Equipment	See Detail	-	202,000	-	-	40,000	80,000
<b>Total Operating Fund</b>		<b>-</b>	<b>1,573,701</b>	<b>3,046,000</b>	<b>3,050,000</b>	<b>2,345,000</b>	<b>2,470,000</b>
<b>Reconstruction Fund</b>							
Reconstruction Projects	See Detail	1,000,000	710,000	225,000	215,000	220,000	210,000
<b>Total Reconstruction Fund</b>		<b>1,000,000</b>	<b>710,000</b>	<b>225,000</b>	<b>215,000</b>	<b>220,000</b>	<b>210,000</b>
<b>Trunk Fund</b>							
Trunk Water Mains - SPUC Projects	See Detail	-	2,725,000	25,000	25,000	25,000	25,000
Over Sizing - Non-SPUC Projects	See Detail	-	616,853	370,310	497,400	474,822	100,500
<b>Total Trunk Fund</b>		<b>-</b>	<b>3,341,853</b>	<b>395,310</b>	<b>522,400</b>	<b>499,822</b>	<b>125,500</b>
<b>Connection Fund</b>							
Wells	See Detail	128,200	235,600	90,000	860,600	125,000	948,800
Water Treatment	See Detail	-	2,500,000	2,500,000	500,000	500,000	500,000
Pump House Additions/Expansions	See Detail	-	200,000	2,280,500	3,865,000	3,785,000	3,200,000
New Tanks and Transmission Water Main	See Detail	197,375	50,000	500,000	3,500,000	-	100,000
Booster Stations	See Detail	-	100,000	-	-	-	1,000,000
Auxiliary Facilities	See Detail	-	170,000	-	27,040	27,040	-
<b>Total Connection Fund</b>		<b>325,575</b>	<b>3,255,600</b>	<b>5,370,500</b>	<b>8,752,640</b>	<b>4,437,040</b>	<b>5,748,800</b>
<b>Total Water</b>		<b>1,325,575</b>	<b>8,881,154</b>	<b>9,036,810</b>	<b>12,540,040</b>	<b>7,501,862</b>	<b>8,554,300</b>
<b>Cumulative Total Water</b>		<b>1,325,575</b>	<b>10,206,729</b>	<b>19,243,539</b>	<b>31,783,579</b>	<b>39,285,441</b>	<b>47,839,741</b>



**Shakopee Public Utilities  
Capital Improvement Plan  
Semi-Final  
Dated: 10/27/2021  
Water Detail**

Item Description	Justification	2021 Carryover	2022	2023	2024	2025	2026
<b>Operating Fund</b>							
<b>Miscellaneous</b>							
Water Meters	PM/Development	-	150,000	150,000	175,000	175,000	175,000
Reservoir Maintenance	Preventative Maintenance	-	50,000	50,000	50,000	50,000	50,000
Power Wash Towers	Preventative Maintenance	-	15,000	20,000	20,000	20,000	20,000
Hydrant Replacement	As Needed	-	40,000	40,000	40,000	40,000	40,000
Chemical Feed Scales	Life Cycle Replacement	-	26,000	26,000	-	-	-
Interconnection w/Savage Metering & Value in Manhole put in Trunk	Development	-	25,000	-	-	-	-
CI2 Feed Improvements	Safety/Enhanced Accuracy	-	37,000	-	-	-	-
CR16 Valve & Hydrant Adjustments	County Trail Project CP-16-XX	-	25,000	-	-	-	-
<b>Total Miscellaneous</b>		-	<b>368,000</b>	<b>286,000</b>	<b>285,000</b>	<b>285,000</b>	<b>285,000</b>
<b>System Upgrades</b>							
Reservoir Mixers	Water Quality	-	42,000	-	-	-	-
SCADA Firmware Upgrades	Water System Reliability	-	40,000	-	-	-	-
Sealcoat Drives/Repair	Preventative Maintenance	-	5,000	5,000	5,000	5,000	5,000
Miscellaneous Equipment	As Needed	-	15,000	15,000	15,000	15,000	15,000
Sidewalk Repair	Safety/Maintenance	-	5,000	-	5,000	-	5,000
Fiber Hardware	AMI and SCADA for 4 tanks	-	100,000	100,000	100,000	-	-
Recoat Reservoir #3 Canterbury Road	Preventative Maintenance	-	-	-	-	2,000,000	-
Recoat Reservoir #4 Dominion Ave	Preventative Maintenance	-	-	-	-	-	2,080,000
<b>Total System Upgrades</b>		-	<b>207,000</b>	<b>120,000</b>	<b>125,000</b>	<b>2,020,000</b>	<b>2,105,000</b>
<b>Advanced Metering Infrastructure (AMI)</b>							
Planning/Design/Project Management	Project Planning/Design	-	76,701	-	-	-	-
Construction/Implementation/Hardware/Software/Training	Customer Service	-	720,000	2,640,000	2,640,000	-	-
<b>Total Advanced Metering Infrastructure (AMI)</b>		-	<b>796,701</b>	<b>2,640,000</b>	<b>2,640,000</b>	-	-
<b>Vehicles/Equipment</b>							
New Water Operator Truck	Customer Service	-	45,000	-	-	-	-
Replace Truck #622 (2011)	Life Cycle Replacement	-	40,000	-	-	-	-
Replace Truck #635 (2006)	Life Cycle Replacement	-	117,000	-	-	-	-
Replace Truck #630 (2014)	Life Cycle Replacement	-	-	-	-	40,000	-
Replace Truck #626 (2015)	Life Cycle Replacement	-	-	-	-	-	40,000
Replace Truck #634 (2015)	Life Cycle Replacement	-	-	-	-	-	40,000
<b>Total Vehicles/Equipment</b>		-	<b>202,000</b>	-	-	<b>40,000</b>	<b>80,000</b>
<b>Total Operating Fund</b>		-	<b>1,573,701</b>	<b>3,046,000</b>	<b>3,050,000</b>	<b>2,345,000</b>	<b>2,470,000</b>

**Shakopee Public Utilities  
Capital Improvement Plan  
Semi-Final  
Dated: 10/27/2021  
Water Detail**

Item Description	Justification	2021 Carryover	2022	2023	2024	2025	2026
<b>Reconstruction Fund</b>							
<b>Reconstruction</b>							
18" Recon CR 83 from VIBS to HWY 169 0.75 mile	County Project	1,000,000	500,000	-	-	-	-
Reconstruction	City Street Recon	-	150,000	150,000	150,000	150,000	150,000
Bituminous Overlay	City CIP	-	10,000	25,000	15,000	20,000	10,000
Correct Deficient Services	As Needed	-	40,000	40,000	40,000	40,000	40,000
Full-Depth Pavement Reconstruction	City CIP	-	10,000	10,000	10,000	10,000	10,000
<b>Total Reconstruction</b>		<b>1,000,000</b>	<b>710,000</b>	<b>225,000</b>	<b>215,000</b>	<b>220,000</b>	<b>210,000</b>
<b>Total Reconstruction Fund</b>		<b>1,000,000</b>	<b>710,000</b>	<b>225,000</b>	<b>215,000</b>	<b>220,000</b>	<b>210,000</b>
<b>Trunk Fund</b>							
<b>Trunk Water Mains - SPU Projects (Completed by SPU)</b>							
12" WM West of Windermere Parallel to Hwy 169 0.75 mile 1-HES	Development	-	1,000,000	-	-	-	-
12" WM 13th Ave, Maras St, Hansen Ave, Stagecoach Road 1-HES	Development	-	1,700,000	-	-	-	-
Projects to be determined	Development	-	25,000	25,000	25,000	25,000	25,000
<b>Total Trunk Water Mains - SPU Projects</b>		<b>-</b>	<b>2,725,000</b>	<b>25,000</b>	<b>25,000</b>	<b>25,000</b>	<b>25,000</b>
<b>Over Sizing - Non-SPU Projects (Completed by Others)</b>							
16" WM East from Monarch Estates parallel to 17th Ave to CR 83 0.875 mile NES	Development	-	171,395	178,250	-	-	-
12" WM CR 16 from CR 15 west to CR 69 - 0.25 mile/segment 2-HES	Development/City Project/Scott	-	57,750	120,000	-	-	-
12" WM Parallel to CR 69 South from Vierling Drive 0.75 mile NES	Development	-	57,750	60,060	-	-	-
12" WM Thrush Street from CR 83 to 0.25 mile West 1- HES	Development	-	57,750	-	-	-	-
12" WM Parallel to CR 83 from Thrush Street to 0.25 miles north and 0.25 miles south 1-HES	Development	-	114,458	-	-	-	-
12" WM Vierling Drive West from CR 69 0.25 mile NES	Development	-	57,750	-	-	-	-
12" WM West of CR 69 thru area B 1.0 miles 1-HES	Development	-	-	12,000	123,600	128,750	-
12" WM West of Tank #8 Site thru area B to CR 69 0.25 mile 2-HES	Development	-	-	-	61,900	-	-
12" WM CR 69 0.25 miles north of CR 78 2-HES	Development	-	-	-	61,900	-	-
12" WM South of Valley View Road 1.0 mile (AUAR) 1-HES	Development	-	-	-	250,000	-	-
16" WM Krystal Addition to CR 79 (800 ft.) NES 1-HES	Development	-	-	-	-	88,572	100,500
12" WM West of CR 69 thru area B 0.75 miles 2-HES	Development	-	-	-	-	257,500	-
Projects to be determined	Development	-	100,000	-	-	-	-
<b>Total Over Sizing - Non-SPU Projects</b>		<b>-</b>	<b>616,853</b>	<b>370,310</b>	<b>497,400</b>	<b>474,822</b>	<b>100,500</b>
<b>Total Trunk Fund</b>		<b>-</b>	<b>3,341,853</b>	<b>395,310</b>	<b>522,400</b>	<b>499,822</b>	<b>125,500</b>

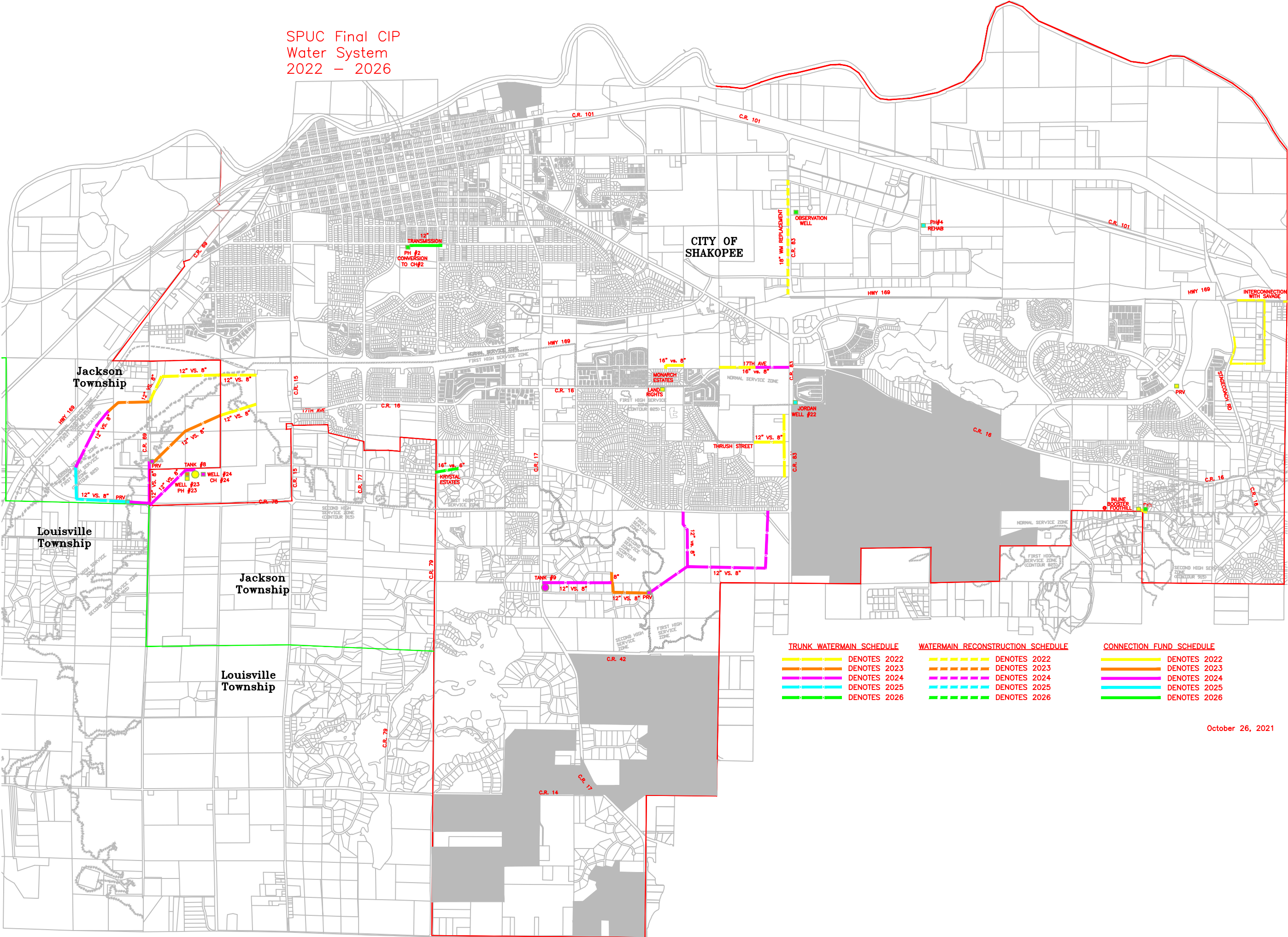


**Shakopee Public Utilities  
Capital Improvement Plan  
Semi-Final  
Dated: 10/27/2021  
Water Detail**

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Item Description	Justification	2021 Carryover	2022	2023	2024	2025	2026
<b>Connection Fund</b>							
<b>Wells</b>							
2-HES Jordan Well #23 @ Tank #8 Site	Development	128,200	105,600	-	-	-	-
Observation Well Location TBD	Department of Natural Resources	-	130,000	-	-	-	-
2-HES Jordan Well #24 Submersible	Development	-	-	90,000	860,600	-	-
NES Jordan Well #22 @ Church Addition	Development/Water Quality Plan	-	-	-	-	125,000	948,800
<b>Total Wells</b>		<b>128,200</b>	<b>235,600</b>	<b>90,000</b>	<b>860,600</b>	<b>125,000</b>	<b>948,800</b>
<b>Water Treatment</b>							
Land Rights	Water Quality Plan	-	2,000,000	2,000,000	-	-	-
RAW Watermain	Water Quality Plan	-	500,000	500,000	500,000	500,000	500,000
<b>Total Water Treatment</b>		<b>-</b>	<b>2,500,000</b>	<b>2,500,000</b>	<b>500,000</b>	<b>500,000</b>	<b>500,000</b>
<b>Pump House Additions/Expansions</b>							
2-HES Pump House @ Tank #8 Site	Development	-	200,000	2,280,500	225,000	-	-
2-HES Control House for Well #24	Development	-	-	-	3,640,000	-	-
NES Pumphouse #4 Rehabilitation	Safety	-	-	-	-	3,785,000	-
NES Pumphouse for Well #22	Development	-	-	-	-	-	200,000
NES #2 Conversion to Control House #2	Safety Water Quality Plan	-	-	-	-	-	3,000,000
<b>Total Pump House Additions/Expansions</b>		<b>-</b>	<b>200,000</b>	<b>2,280,500</b>	<b>3,865,000</b>	<b>3,785,000</b>	<b>3,200,000</b>
<b>New Tanks and Transmission Water Main</b>							
2-HES District Storage (0.75 MG, Elevated Tank) @ South of Windermere	Development	197,375	50,000	-	-	-	-
2-HES District Storage (0.25 MG, Elevated Tank) @ WoodDuck Trail	Development	-	-	-	3,000,000	-	-
12 inch transmission watermain 1.0 miles	Development	-	-	500,000	500,000	-	-
NES 12" transmission from Pump House #2 to Pumphouse #3	Safety/Water/Quality Plan	-	-	-	-	-	100,000
<b>Total New Tanks and Transmission Water Main</b>		<b>197,375</b>	<b>50,000</b>	<b>500,000</b>	<b>3,500,000</b>	<b>-</b>	<b>100,000</b>
<b>Booster Stations</b>							
Inline Booster Station Site @ Foothill Road and Horizon Drive	Development	-	100,000	-	-	-	-
1-HES to 2-HES Booster Station @ Foothill/Horizon	Development	-	-	-	-	-	1,000,000
<b>Total Booster Stations</b>		<b>-</b>	<b>100,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,000,000</b>
<b>Auxiliary Facilities</b>							
Southbridge Pressure Reducing Values	Pressure Reduction	-	110,000	-	-	-	-
NES Elevated Tank Altitude Valves	Pressure Control	-	60,000	-	-	-	-
Pressure Reducing Valve - 2-HES to 1-HES @ CR 69 and CR 16	Development	-	-	-	27,040	-	-
Pressure Reducing Valve - 2-HES to 1-HES @ CR 78 west of CR 69	Development	-	-	-	-	27,040	-
<b>Total Auxiliary Facilities</b>		<b>-</b>	<b>170,000</b>	<b>-</b>	<b>27,040</b>	<b>27,040</b>	<b>-</b>
<b>Total Connection Fund</b>		<b>325,575</b>	<b>3,255,600</b>	<b>5,370,500</b>	<b>8,752,640</b>	<b>4,437,040</b>	<b>5,748,800</b>
<b>Total Water</b>		<b>1,325,575</b>	<b>8,881,154</b>	<b>9,036,810</b>	<b>12,540,040</b>	<b>7,501,862</b>	<b>8,554,300</b>

SPUC Final CIP  
Water System  
2022 – 2026



**TRUNK WATERMAIN SCHEDULE**

Yellow line	DENOTES 2022
Orange line	DENOTES 2023
Purple line	DENOTES 2024
Cyan line	DENOTES 2025
Green line	DENOTES 2026

**WATERMAIN RECONSTRUCTION SCHEDULE**

Yellow dashed line	DENOTES 2022
Orange dashed line	DENOTES 2023
Purple dashed line	DENOTES 2024
Cyan dashed line	DENOTES 2025
Green dashed line	DENOTES 2026

**CONNECTION FUND SCHEDULE**

Yellow line	DENOTES 2022
Orange line	DENOTES 2023
Purple line	DENOTES 2024
Cyan line	DENOTES 2025
Green line	DENOTES 2026

October 26, 2021



**Shakopee Public Utilities  
Capital Improvement Plan  
Semi-Final  
Dated: 10-27-2021  
Electric Summary**

Item Description	Justification	2021 Carryover	2022	2023	2024	2025	2026
<b><u>Operating Fund</u></b>							
<b><u>System Projects</u></b>							
Miscellaneous	See Detail	-	175,000	175,000	175,000	175,000	175,000
System Material & Facilities	See Detail	-	662,000	495,000	495,000	470,000	430,000
Vehicles/Equipment	See Detail	156,000	670,500	340,000	345,000	385,000	195,000
<b><u>Local Area Projects</u></b>							
New UG Cables & Related Cost (Net of Contribution)	See Detail	-	400,000	450,000	450,000	450,000	450,000
Replace UG Cable Projects	See Detail	-	10,000	10,000	10,000	10,000	10,000
Rebuild OH Lines	See Detail	-	123,000	70,000	20,000	20,000	20,000
<b><u>Major System Projects</u></b>							
Feeder Extension Projects	See Detail	-	1,109,500	1,289,340	795,000	286,000	297,440
Convert OH to UG	See Detail	-	478,000	263,100	275,000	343,000	354,440
Territory Acquisition	See Detail	-	550,000	350,000	350,000	350,000	225,000
Shakopee Substation	See Detail	-	275,000	-	-	-	-
South Shakopee Substation	See Detail	-	85,000	-	-	-	-
Pike Lake Substation	See Detail	-	25,000	-	30,000	-	-
Dean Lake Substation	See Detail	-	81,000	-	-	-	-
East Shakopee Substation	See Detail	-	1,700,000	-	-	-	-
West Shakopee Substation	See Detail	414,000	5,632,000	150,000	300,000	-	-
Upgrade Projects	See Detail	-	278,264	220,000	220,000	230,000	25,000
<b>ADVANCED METERING INFRASTRUCTURE (AMI)</b>	See Detail	90,000	720,000	2,250,000	2,250,000	-	-
Service Center	See Detail	-	83,500	882,400	4,045,000	50,000	50,000
<b>Total Operating Fund</b>		<b>660,000</b>	<b>13,057,764</b>	<b>6,944,840</b>	<b>9,760,000</b>	<b>2,769,000</b>	<b>2,231,880</b>
<b><u>Relocation Fund</u></b>							
Relocation Projects	See Detail	-	202,000	186,600	60,000	60,000	65,000
<b>Total Relocation Fund</b>		<b>-</b>	<b>202,000</b>	<b>186,600</b>	<b>60,000</b>	<b>60,000</b>	<b>65,000</b>
<b>Total Electric</b>		<b>660,000</b>	<b>13,259,764</b>	<b>7,131,440</b>	<b>9,820,000</b>	<b>2,829,000</b>	<b>2,296,880</b>
<b>Cumulative Total Electric</b>		<b>660,000</b>	<b>13,919,764</b>	<b>21,051,204</b>	<b>30,871,204</b>	<b>33,700,204</b>	<b>35,997,084</b>

**Shakopee Public Utilities**  
**Capital Improvement Plan**  
**Semi-Final**  
**Dated: 10-27-2021**  
**Electric Detail**

	Item Description	Justification	2021 Carryover	2022	2023	2024	2025	2026
	<b>Operating Fund</b>							
	<b>System Projects</b>							
1	Miscellaneous	As Necessary	-	175,000	175,000	175,000	175,000	175,000
2	<b>Total Miscellaneous</b>		-	<b>175,000</b>	<b>175,000</b>	<b>175,000</b>	<b>175,000</b>	<b>175,000</b>
3	<b>System Material &amp; Facilities</b>							
4	DC Fast Charger (West Substation)	New Equipment	-	60,000	-	-	-	-
5	Lateral Circuit Reconfiguration	System Reliability	-	25,000	25,000	25,000	25,000	25,000
6	Meters	New Construction	-	50,000	50,000	50,000	50,000	50,000
7	Padmount Switches & Related	Load/Development	-	150,000	150,000	150,000	150,000	150,000
8	Distribution Transformers	Restock to min.	-	205,000	205,000	205,000	205,000	205,000
9	System Capacitors-Additional	PF Improvements	-	25,000	25,000	25,000	-	-
10	SCADA-Capacitor Control	Op. Efficiencies & Voltage Control	-	40,000	40,000	40,000	40,000	-
11	SCADA Switches for Tie Switches	System Reliability	-	80,000	-	-	-	-
12	Meter Tester	Replace Old Equipment	-	25,000	-	-	-	-
13	Pikelake Substation Driveway Sealing	Maintenance	-	2,000	-	-	-	-
14	<b>Total System Material &amp; Facilities</b>		-	<b>662,000</b>	<b>495,000</b>	<b>495,000</b>	<b>470,000</b>	<b>430,000</b>
15	<b>Vehicles/Equipment</b>							
16	Construction-Related Equipment-New/Additional/Replacement	Tool Replacement	-	45,000	45,000	45,000	45,000	45,000
17	#616 Double Bucket	Life Cycle Replacement	156,000	100,000	-	-	-	-
18	Backyard Digger/Bucket Truck	New Equipment	-	190,000	-	-	-	-
19	Service Saver	New Equipment	-	4,500	-	-	-	-
20	Phase Identifier	Additional Service Saver	-	6,000	-	-	-	-
21	Skidsteer Trailer	Life Cycle Replacement	-	20,000	-	-	-	-
22	#617 Duty Truck	Life Cycle Replacement	-	40,000	-	-	-	-
23	Vac-Tron	Life Cycle Replacement	-	95,000	-	-	-	-
24	#637 Engineering Pick Up 4X4	Life Cycle Replacement	-	50,000	-	-	-	-
25	Dump Truck	New Equipment	-	120,000	-	-	-	-
26	Mini Skid Loader/Backhoe	Life Cycle Replacement	-	-	50,000	-	-	-
27	#610 F550 4x4 Service Truck	Life Cycle Replacement	-	-	175,000	-	-	-
28	Forklift	Life Cycle Replacement	-	-	30,000	-	-	-
29	#618 Duty Truck	Life Cycle Replacement	-	-	40,000	-	-	-
30	Digger Truck #612 Bucket	Life Cycle Replacement	-	-	-	300,000	-	-
31	Air Compressor #628	Life Cycle Replacement	-	-	-	-	70,000	-
32	Directional Bore Equipment	New Equip for UG Construction	-	-	-	-	250,000	-
33	Equipment Trailer 30,000 lbs	Life Cycle Replacement	-	-	-	-	20,000	-
34	Woodchipper	Life Cycle Replacement	-	-	-	-	-	55,000

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35	Vac-Tron	Life Cycle Replacement	-	-	-	-	-	95,000
36	<b>Total Vehicles/Equipment</b>		<b>156,000</b>	<b>670,500</b>	<b>340,000</b>	<b>345,000</b>	<b>385,000</b>	<b>195,000</b>
37								
38								
39	<b>Local Area Projects</b>							
40	New UG Cables & Related Cost (Net of Contribution)	Load/Development	-	400,000	450,000	450,000	450,000	450,000
41	<b>Total New UG Cables &amp; Related Cost (Net of Contribution)</b>		<b>-</b>	<b>400,000</b>	<b>450,000</b>	<b>450,000</b>	<b>450,000</b>	<b>450,000</b>
42								
43	<b>Replace UG Cable Projects</b>							
44	Replace UG Cable - Projects Yet To Be Determined	As Needed	-	10,000	10,000	10,000	10,000	10,000
45	<b>Total Replace UG Cable Projects</b>		<b>-</b>	<b>10,000</b>	<b>10,000</b>	<b>10,000</b>	<b>10,000</b>	<b>10,000</b>
46								
47	<b>Rebuild OH Lines</b>							
48	Rebuild OH lines - as needed RP3	Change Out	-	20,000	20,000	20,000	20,000	20,000
49	BL-22 Stagecoach Road and Maras Avenue	Street Project	-	78,000	-	-	-	-
50	DL-52 Eagle Creek Blvd@Vierling Drive 0.25 mile	Roundabout Impacts	-	25,000	-	-	-	-
51	SS-32 CR 15 @Hwy 169 Ramps 0.50 mile	Roundabout Impacts	-	-	50,000	-	-	-
52	<b>Total Rebuild OH Lines</b>		<b>-</b>	<b>123,000</b>	<b>70,000</b>	<b>20,000</b>	<b>20,000</b>	<b>20,000</b>
53	<b>Major System Projects</b>							
54								
55	<b>Feeder Extension Projects</b>							
56	PL-75 SBX to Stagecoach Rd 0.25 mile	Development	-	30,400	-	-	-	-
57	Dean Lake Sub DL-9X Exit Circuits 1.0 mile	Load Growth	-	220,000	-	-	-	-
58	SS-32 CR 16 Ext. from CR15 to CR69 1.25 mile	Street Project & Development	-	126,600	197,340	-	-	-
59	West Shakopee Substation Exit Circuits	Load Growth	-	100,000	500,000	520,000	-	-
60	DL-97 New Feeder DL Sub to Barendscheer Blvd 1.0 mile	Development (Canterbury Commons)	-	126,500	131,560	-	-	-
61	SS-84 New Feeder SS Sub to CR 17 via Stonebrooke 0.75 mile	Load Growth	-	-	197,340	-	-	-
62	DL-42 Feeder Extension to Data Center 0.5 mile	Load Growth (Data Center)	-	253,000	-	-	-	-
63	Projects Yet to be Determined 1.0 mile	As Necessary	-	253,000	263,100	275,000	286,000	297,440
64	<b>Total Feeder Extension Projects</b>		<b>-</b>	<b>1,109,500</b>	<b>1,289,340</b>	<b>795,000</b>	<b>286,000</b>	<b>297,440</b>
65								
66	Assumed Cost per mile unless noted otherwise		-	253,000	263,100	275,000	286,000	297,440
67								



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68	<b>Convert OH to UG</b>							
69	Eagle Creek Blvd UG 0.50 miles	Reliability	-	175,000	-	-	-	-
70	Muhlenhardt Undergrounding 0.75 mile	Reliability	-	50,000	-	-	-	-
71	Presidential OH to UG Conversion, 2 blocks per year, 40 customer/year		-	-	-	-	57,000	57,000
72	<b>Total Convert OH to UG</b>		-	<b>478,000</b>	<b>263,100</b>	<b>275,000</b>	<b>343,000</b>	<b>354,440</b>
74	<b>Territory Acquisition</b>							
75	Territory Acquisition	Purchase	-	400,000	250,000	250,000	250,000	125,000
76	Territory Acquisition	Consolidation	-	150,000	100,000	100,000	100,000	100,000
77	<b>Total Territory Acquisition</b>		-	<b>550,000</b>	<b>350,000</b>	<b>350,000</b>	<b>350,000</b>	<b>225,000</b>
78								
79	<b>Shakopee Substation</b>							
80	Land Rights	Load Growth/Downtown Re-development	-	250,000	-	-	-	-
81	Substation to County Fiber & Fiber Equipment	Safety	-	25,000	-	-	-	-
82	<b>Total Shakopee Substation</b>		-	<b>275,000</b>	-	-	-	-
83								
84	<b>South Shakopee Substation</b>							
85	Substation to County Fiber & Fiber Equipment	Safety	-	25,000	-	-	-	-
86	Oil Change Out on Tap Changer (Transformer 1 & 2)	Maintenance/Extend Life of Tap Changer	-	60,000	-	-	-	-
87	<b>Total South Shakopee Substation</b>		-	<b>85,000</b>	-	-	-	-
88								
89	<b>Pike Lake Substation</b>							
90	Substation to County Fiber & Fiber Equipment	Safety	-	25,000	-	-	-	-
91	Oil Change Out on Tap Changer (Transformer 1)	Maintenance/Extend Life of Tap Changer	-	-	-	30,000	-	-
92	<b>Total Pike Lake Substation</b>		-	<b>25,000</b>	-	<b>30,000</b>	-	-
93								
94	<b>Dean Lake Substation</b>							
95	Substation to County Fiber & Fiber Equipment	Safety	-	25,000	-	-	-	-
96	Oil Change Out on Tap Changer	Maintenance/Extend Life of Tap Changer	-	30,000	-	-	-	-
97	Replace Substation Batteries	Maintenance	-	26,000	-	-	-	-
98	<b>Total Dean Lake Substation</b>		-	<b>81,000</b>	-	-	-	-
99								
100	<b>East Shakopee Substation</b>							
101	Land Rights	Load Growth	-	1,700,000	-	-	-	-
102	<b>Total East Shakopee Substation</b>		-	<b>1,700,000</b>	-	-	-	-
103								
104								

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105								
106								
107	<b>West Shakopee Substation</b>							
108	Substation to County Fiber & Fiber Equipment	Safety	-	25,000	-	-	-	-
109	Planning/Design/Project Management	Load Growth	414,000	207,000	-	-	-	-
110	Construction	Load Growth	-	5,400,000	-	-	-	-
111	UG Feeder/Exit Line going East	Load Growth	-	-	150,000	-	-	-
112	UG Feeder/Exit line going West to 169 & South to 41	Load Growth	-	-	-	300,000	-	-
113	<b>Total West Shakopee Substation</b>		<b>414,000</b>	<b>5,632,000</b>	<b>150,000</b>	<b>300,000</b>	<b>-</b>	<b>-</b>
114								
115	<b>Upgrade Projects</b>							
116	SH-08 Reconductoring 4th, Spencer, Fillmore, Somerville	Load Growth	-	43,264	-	-	-	-
117	Heritage Lateral Reconfiguration	Safety	-	25,000	-	-	-	-
118	Milwaukee Court Lateral Reconfiguration	Safety	-	-	-	-	-	25,000
119	Projects yet to be determined	As Necessary	-	210,000	220,000	220,000	230,000	-
120	<b>Total Upgrade Projects</b>		<b>-</b>	<b>278,264</b>	<b>220,000</b>	<b>220,000</b>	<b>230,000</b>	<b>25,000</b>
121								
122	<b>ADVANCED METERING INFRASTRUCTURE (AMI)</b>							
123	Planning/Design/Project Management	Project Planning/Design	90,000	120,000	-	-	-	-
124	Construction/Implementation/Hardware/Software/Training	Customer Service	-	600,000	2,250,000	2,250,000	-	-
125	<b>Total ADVANCED METERING INFRASTRUCTURE (AMI)</b>		<b>90,000</b>	<b>720,000</b>	<b>2,250,000</b>	<b>2,250,000</b>	<b>-</b>	<b>-</b>
126								
127	<b>Service Center</b>							
128	Service Center to County Fiber	Safety	-	25,000	-	-	-	-
129	Miscellaneous Building Improvements/Replacements	Maint. & Requested Changes	-	45,000	45,000	45,000	50,000	50,000
130	Display Case Office	Marketing	-	10,000	-	-	-	-
131	Door Seal Loading Dock	Maintenance	-	3,500	-	-	-	-
132	Facility Roof Replacement	Maintenance	-	-	800,400	-	-	-
133	Garage Heaters	Maintenance	-	-	30,000	-	-	-
134	Ice Machine	Replacement	-	-	7,000	-	-	-
135	Building Expansion Office	Staff Additions	-	-	-	4,000,000	-	-
136	<b>Total Service Center</b>		<b>-</b>	<b>83,500</b>	<b>882,400</b>	<b>4,045,000</b>	<b>50,000</b>	<b>50,000</b>
137								
138	<b>Total Operating Fund</b>		<b>660,000</b>	<b>13,057,764</b>	<b>6,944,840</b>	<b>9,760,000</b>	<b>2,769,000</b>	<b>2,231,880</b>

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139								
140								
141	<b>Relocation Fund</b>							
142								
143	<b>Relocation Projects</b>							
144	BL-22 Maras Street & Stagecoach Road	Street Project	-	100,000	-	-	-	-
145	DL-52 Eagle Creek Blvd@Vierling Drive 0.25 mile	Street Project	-	50,000	-	-	-	-
146	SS-32 CR 15 & Hwy 169 Ramps 0.50 mile	Roundabout Impacts	-	-	131,600	-	-	-
147	Projects Yet to Be Determined 0.50 ckt. mile	As Necessary	-	52,000	55,000	60,000	60,000	65,000
148	<b>Total Relocation Projects</b>		<b>-</b>	<b>202,000</b>	<b>186,600</b>	<b>60,000</b>	<b>60,000</b>	<b>65,000</b>
149								
150	<b>Total Relocation Fund</b>		<b>-</b>	<b>202,000</b>	<b>186,600</b>	<b>60,000</b>	<b>60,000</b>	<b>65,000</b>
151								
152	<b>Total Electric</b>		<b>660,000</b>	<b>13,259,764</b>	<b>7,131,440</b>	<b>9,820,000</b>	<b>2,829,000</b>	<b>2,296,880</b>



SPUC Final CIP  
Electric System  
2022 – 2026

