



2022 – 2026

# CAPITAL IMPROVEMENT PLAN

Final as of December 6, 2021

**Shakopee Public Utilities  
Capital Improvement Plan  
Final  
Dated:12-6-2021  
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	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  
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Administrative Detail**

Type	Item	Source of Request	Justification	Qty	Unit Cost	2021 Carryover	2022	2023	2024	2025
Gen Office Equip	General office equipment	F&A - IT	General equipment replacements			15,000	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 Equip	Conference Room D Sharp Aquos Interactive Board	Plan/Eng, Water, Electric	Map Display for Meetings/Presentations/Training/Conferences				15,000	-	-	-
Gen Office Equip	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 Equip	Commission Room add mic tracking for video	Plan/Eng, Water, Electric	Upgrade for video recording to track active microphone		3,500		3,500	-	-	-
Gen Office Equip	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>
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
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
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
Hardware	Security Cameras for front lobby/desk	F&A - IT	Extra security for CSR's at desk in front lobby	3	1,356	4,068	4,068	-	-	-
Hardware	Miscellaneous Hardware	F&A - IT	Future planning/Unplanned replacements			-	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	-	-	-
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>
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
<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>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>

**Shakopee Public Utilities  
Capital Improvement Plan  
Final  
Dated: 12-6-2021  
Electric Summary**

Item Description	Justification	2021 Carryover	2022	2023	2024	2025	2026
<b><u>Operating Fund</u></b>							
<b><u>System Projects</u></b>							
<b>Miscellaneous</b>	See Detail	-	175,000	175,000	175,000	175,000	175,000
<b>System Material &amp; Facilities</b>	See Detail	-	662,000	495,000	495,000	470,000	430,000
<b>Vehicles/Equipment</b>	See Detail	156,000	670,500	340,000	345,000	385,000	195,000
<b><u>Local Area Projects</u></b>							
<b>New UG Cables &amp; Related Cost (Net of Contribution)</b>	See Detail	-	400,000	450,000	450,000	450,000	450,000
<b>Replace UG Cable Projects</b>	See Detail	-	10,000	10,000	10,000	10,000	10,000
<b>Rebuild OH Lines</b>	See Detail	-	123,000	70,000	20,000	20,000	20,000
<b><u>Major System Projects</u></b>							
<b>Feeder Extension Projects</b>	See Detail	-	1,109,500	1,289,340	795,000	286,000	297,440
<b>Convert OH to UG</b>	See Detail	-	478,000	263,100	275,000	343,000	354,440
<b>Territory Acquisition</b>	See Detail	-	550,000	350,000	350,000	350,000	225,000
<b>Shakopee Substation</b>	See Detail	-	275,000	-	-	-	-
<b>South Shakopee Substation</b>	See Detail	-	85,000	-	-	-	-
<b>Pike Lake Substation</b>	See Detail	-	25,000	-	30,000	-	-
<b>Dean Lake Substation</b>	See Detail	-	81,000	-	-	-	-
<b>East Shakopee Substation</b>	See Detail	-	1,700,000	-	-	-	-
<b>West Shakopee Substation</b>	See Detail	414,000	5,632,000	150,000	300,000	-	-
<b>Upgrade Projects</b>	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	-	-
<b>Service Center</b>	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>							
<b>Relocation Projects</b>	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>



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<b>Operating Fund</b>							
<b>System Projects</b>							
1 <b>Miscellaneous</b>	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							
68							

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	Item Description	Justification	2021 Carryover	2022	2023	2024	2025	2026
69	<b>Convert OH to UG</b>							
70	Eagle Creek Blvd UG 0.50 miles	Reliability	-	175,000	-	-	-	-
71	Muhlenhardt Undergrounding 0.75 mile	Reliability	-	50,000	-	-	-	-
72	Presidential OH to UG Conversion, 2 blocks per year, 40 customer/year		-	-	-	-	57,000	57,000
73	<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								
75	<b>Territory Acquisition</b>							
76	Territory Acquisition	Purchase	-	400,000	250,000	250,000	250,000	125,000
77	Territory Acquisition	Consolidation	-	150,000	100,000	100,000	100,000	100,000
78	<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>
79								
80	<b>Shakopee Substation</b>							
81	Land Rights	Load Growth/Downtown Re-development	-	250,000	-	-	-	-
82	Substation to County Fiber & Fiber Equipment	Safety	-	25,000	-	-	-	-
83	<b>Total Shakopee Substation</b>		-	<b>275,000</b>	-	-	-	-
84								
85	<b>South Shakopee Substation</b>							
86	Substation to County Fiber & Fiber Equipment	Safety	-	25,000	-	-	-	-
87	Oil Change Out on Tap Changer (Transformer 1 & 2)	Maintenance/Extend Life of Tap Changer	-	60,000	-	-	-	-
88	<b>Total South Shakopee Substation</b>		-	<b>85,000</b>	-	-	-	-
89								
90	<b>Pike Lake Substation</b>							
91	Substation to County Fiber & Fiber Equipment	Safety	-	25,000	-	-	-	-
92	Oil Change Out on Tap Changer (Transformer 1)	Maintenance/Extend Life of Tap Changer	-	-	-	30,000	-	-
93	<b>Total Pike Lake Substation</b>		-	<b>25,000</b>	-	<b>30,000</b>	-	-
94								
95	<b>Dean Lake Substation</b>							
96	Substation to County Fiber & Fiber Equipment	Safety	-	25,000	-	-	-	-
97	Oil Change Out on Tap Changer	Maintenance/Extend Life of Tap Changer	-	30,000	-	-	-	-
98	Replace Substation Batteries	Maintenance	-	26,000	-	-	-	-
99	<b>Total Dean Lake Substation</b>		-	<b>81,000</b>	-	-	-	-
100								
101	<b>East Shakopee Substation</b>							
102	Land Rights	Load Growth	-	1,700,000	-	-	-	-
103	<b>Total East Shakopee Substation</b>		-	<b>1,700,000</b>	-	-	-	-
104								



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	Item Description	Justification	2021 Carryover	2022	2023	2024	2025	2026
105	<b>West Shakopee Substation</b>							
106	Substation to County Fiber & Fiber Equipment	Safety	-	25,000	-	-	-	-
107	Planning/Design/Project Management	Load Growth	414,000	207,000	-	-	-	-
108	Construction	Load Growth	-	5,400,000	-	-	-	-
109	UG Feeder/Exit Line going East	Load Growth	-	-	150,000	-	-	-
110	UG Feeder/Exit line going West to 169 & South to 41	Load Growth	-	-	-	300,000	-	-
111	<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>
112								
113	<b>Upgrade Projects</b>							
114	SH-08 Reconductoring 4th, Spencer, Fillmore, Somerville	Load Growth	-	43,264	-	-	-	-
115	Heritage Lateral Reconfiguration	Safety	-	25,000	-	-	-	-
116	Milwaukee Court Lateral Reconfiguration	Safety	-	-	-	-	-	25,000
117	Projects yet to be determined	As Necessary	-	210,000	220,000	220,000	230,000	-
118	<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>
119								
120	<b>ADVANCED METERING INFRASTRUCTURE (AMI)</b>							
121	Planning/Design/Project Management	Project Planning/Design	90,000	120,000	-	-	-	-
122	Construction/Implementation/Hardware/Software/Training	Customer Service	-	600,000	2,250,000	2,250,000	-	-
123	<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>
124								
125	<b>Service Center</b>							
126	Service Center to County Fiber	Safety	-	25,000	-	-	-	-
127	Miscellaneous Building Improvements/Replacements	Maint. & Requested Changes	-	45,000	45,000	45,000	50,000	50,000
128	Display Case Office	Marketing	-	10,000	-	-	-	-
129	Door Seal Loading Dock	Maintenance	-	3,500	-	-	-	-
130	Facility Roof Replacement	Maintenance	-	-	800,400	-	-	-
131	Garage Heaters	Maintenance	-	-	30,000	-	-	-
132	Ice Machine	Replacement	-	-	7,000	-	-	-
133	Building Expansion Office	Staff Additions	-	-	-	4,000,000	-	-
134	<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>
135								
136	<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>
137								
138								



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139	<b>Relocation Fund</b>							
140								
141	<b>Relocation Projects</b>							
142	BL-22 Maras Street & Stagecoach Road	Street Project	-	100,000	-	-	-	-
143	DL-52 Eagle Creek Blvd@Vierling Drive 0.25 mile	Street Project	-	50,000	-	-	-	-
144	SS-32 CR 15 & Hwy 169 Ramps 0.50 mile	Roundabout Impacts	-	-	131,600	-	-	-
145	Projects Yet to Be Determined 0.50 ckt. mile	As Necessary	-	52,000	55,000	60,000	60,000	65,000
146	<b>Total Relocation Projects</b>		-	<b>202,000</b>	<b>186,600</b>	<b>60,000</b>	<b>60,000</b>	<b>65,000</b>
147								
148	<b>Total Relocation Fund</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 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>

**Shakopee Public Utilities  
Capital Improvement Plan  
Final  
Dated: 12-6-2021  
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	-	3,025,000	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>3,641,853</b>	<b>395,310</b>	<b>522,400</b>	<b>499,822</b>	<b>125,500</b>
<b>Connection Fund</b>							
Wells	See Detail	601,000	256,000	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>798,375</b>	<b>3,276,000</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>1,798,375</b>	<b>9,201,554</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>1,798,375</b>	<b>10,999,929</b>	<b>20,036,739</b>	<b>32,576,779</b>	<b>40,078,641</b>	<b>48,632,941</b>

**Shakopee Public Utilities  
Capital Improvement Plan  
Final  
Dated: 12-6-2021  
Water Detail**

	Item Description	Justification	2021 Carryover	2022	2023	2024	2025	2026
	<b>Operating Fund</b>							
1	<b>Miscellaneous</b>							
2	Water Meters	PM/Development	-	150,000	150,000	175,000	175,000	175,000
3	Reservoir Maintenance	Preventative Maintenance	-	50,000	50,000	50,000	50,000	50,000
4	Power Wash Towers	Preventative Maintenance	-	15,000	20,000	20,000	20,000	20,000
5	Hydrant Replacement	As Needed	-	40,000	40,000	40,000	40,000	40,000
6	Chemical Feed Scales	Life Cycle Replacement	-	26,000	26,000	-	-	-
7	Interconnection w/Savage Metering & Value in Manhole put in Trunk	Development	-	25,000	-	-	-	-
8	Cl2 Feed Improvements	Safety/Enhanced Accuracy	-	37,000	-	-	-	-
9	CR16 Valve & Hydrant Adjustments	County Trail Project CP-16-XX	-	25,000	-	-	-	-
10	<b>Total Miscellaneous</b>		-	<b>368,000</b>	<b>286,000</b>	<b>285,000</b>	<b>285,000</b>	<b>285,000</b>
11	<b>System Upgrades</b>							
12	Reservoir Mixers	Water Quality	-	42,000	-	-	-	-
13	SCADA Firmware Upgrades	Water System Reliability	-	40,000	-	-	-	-
14	Sealcoat Drives/Repair	Preventative Maintenance	-	5,000	5,000	5,000	5,000	5,000
15	Miscellaneous Equipment	As Needed	-	15,000	15,000	15,000	15,000	15,000
16	Sidewalk Repair	Safety/Maintenance	-	5,000	-	5,000	-	5,000
17	Fiber Hardware	AMI and SCADA for 4 tanks	-	100,000	100,000	100,000	-	-
18	Recoat Reservoir #3 Canterbury Road	Preventative Maintenance	-	-	-	-	2,000,000	-
19	Recoat Reservoir #4 Dominion Ave	Preventative Maintenance	-	-	-	-	-	2,080,000
20	<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>
21	<b>Advanced Metering Infrastructure (AMI)</b>							
22	Planning/Design/Project Management	Project Planning/Design	-	76,701	-	-	-	-
23	Construction/Implementation/Hardware/Software/Training	Customer Service	-	720,000	2,640,000	2,640,000	-	-
24	<b>Total Advanced Metering Infrastructure (AMI)</b>		-	<b>796,701</b>	<b>2,640,000</b>	<b>2,640,000</b>	<b>-</b>	<b>-</b>
25	<b>Vehicles/Equipment</b>							
26	New Water Operator Truck	Customer Service	-	45,000	-	-	-	-
27	Replace Truck #622 (2011)	Life Cycle Replacement	-	40,000	-	-	-	-
28	Replace Truck #635 (2006)	Life Cycle Replacement	-	117,000	-	-	-	-
29	Replace Truck #630 (2014)	Life Cycle Replacement	-	-	-	-	40,000	-
30	Replace Truck #626 (2015)	Life Cycle Replacement	-	-	-	-	-	40,000
31	Replace Truck #634 (2015)	Life Cycle Replacement	-	-	-	-	-	40,000
32	<b>Total Vehicles/Equipment</b>		-	<b>202,000</b>	<b>-</b>	<b>-</b>	<b>40,000</b>	<b>80,000</b>
33								
34	<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>
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**Shakopee Public Utilities  
Capital Improvement Plan  
Final  
Dated: 12-6-2021  
Water Detail**

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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	-	1,300,000	-	-	-	-
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>3,025,000</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>3,641,853</b>	<b>395,310</b>	<b>522,400</b>	<b>499,822</b>	<b>125,500</b>

**Shakopee Public Utilities  
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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	601,000	126,000	-	-	-	-
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>601,000</b>	<b>256,000</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 Valves	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>798,375</b>	<b>3,276,000</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>1,798,375</b>	<b>9,201,554</b>	<b>9,036,810</b>	<b>12,540,040</b>	<b>7,501,862</b>	<b>8,554,300</b>