AGENDA SHAKOPEE PUBLIC UTILITIES COMMISSION REGULAR MEETING NOVEMBER 5, 2018

- 1. **Call to Order** at 5:00pm in the SPUC Service Center, 255 Sarazin Street.
- 2. Approval of Minutes
- 3. Communications
- 4. Approve the Agenda
- 5. Approval of Consent Business
- 6. Bills: Approve Warrant List
- 7. Liaison Report
- 8. Reports: Water Items
 - 8a) Water System Operations Report Verbal
- 9. Reports: Electric Items
 - 9a) Electric System Operations Report Verbal
 - 9b) Resn. #1216 Adopting the Electric Service Rules and Regulations of the Shakopee Public Utilities Commission and Providing For General Administration
 - 9c) MMPA Board Meeting Public Summary October 2018
- 10. Reports: Human Resources
- 11. Reports: General
 - 11a) Semi-Final Capital Improvement Plan for 2019-2023
- 12. New Business
- 13. Tentative Dates for Upcoming Meetings
 - Mid Month Meeting -- November 19
 - Regular Meeting -- December 3
 - Mid Month Meeting -- December 17
 - Regular Meeting -- January 7, 2019
- 14. **Adjourn** to 11/19/18 at the SPUC Service Center, 255 Sarazin Street

MINUTES

OF THE

SHAKOPEE PUBLIC UTILITIES COMMISSION (Regular Meeting)

President Weyer called the regular session of the Shakopee Public Utilities Commission to order at the Shakopee Public Utilities meeting room at 5:00 P.M., October 15, 2018.

MEMBERS PRESENT: Commissioners Joos, Amundson, Meyer and Weyer. Also present, Liaison Mocol, Utilities Manager Crooks, Finance Director Schmid, Planning & Engineering Director Adams, Electric Superintendent Drent, Water Superintendent Schemel and Marketing/Customer Relations Director Walsh.

Motion by Amundson, seconded by Joos to approve the minutes of the October 1, 2018 Commission meeting. Motion carried.

There were no Communication items to report.

President Weyer offered the agenda for approval.

Motion by Meyer, seconded by Joos to approve the agenda as presented. Motion carried.

Motion by Amundson, seconded by Joos to approve the Consent Business agenda as presented. Motion carried.

President Weyer stated that the Consent Item was: Item 8c: Monthly Water Production Dashboard.

The warrant listing for bills paid October 15, 2018 was presented.

Motion by Joos, seconded by Meyer to approve the warrant listing dated October 15, 2018 as presented. Motion carried.

Liaison Mocol presented her report. The annual budget process continues with the Council. It is expected the Southbridge development agreement will be decided at the next Council meeting.

Water Superintendent Schemel provided a report of current water operations. Hydrant flushing has been suspended with the number of construction projects trying to complete work before significant changes in the weather. Updates to those projects were detailed.

Mr. Schemel provided a Windermere Booster Station update. The City of Shakopee granted a CUP approval for the project on October 4. The Commission was presented reasons that there will be a delay in the construction of Well #23. Water quality testing will be taking place with the test/irrigation well located on the site of the project to gather more detailed results.

Item 8c: Monthly Water Production Dashboard was received under Consent Business.

Electric Superintendent Drent provided a report of current electric operations. Two electric outages were reviewed. An update was provided on the LED conversion project with street lights. A potential to provide mutual aid was discussed for the hurricanes that hit Florida and North Carolina. Construction projects were updated and discussed.

Planning and Engineering Director Adams presented the final draft of the Electric Service Rules and Regulations aka Electric Policy Manual. With no further changes or modifications, a resolution approving the document will come back at the next Commission meeting.

Utilities Manager Crooks reviewed the arrangement to provide electric service to the Shakopee Energy Park.

Motion by Meyer, seconded by Joos to offer Resolution #1213. A Resolution Modifying Resolution #1100 by Establishing Wholesale Electric Rates to Shakopee Energy Park - 2017. Ayes: Commissioners Meyer, Amundson, Joos and Weyer. Nay: none. Motion carried. Resolution passed.

Motion by Joos, seconded by Meyer to offer Resolution #1214. A Resolution Modifying Resolution #1100 by Establishing Wholesale Electric Rates to Shakopee Energy Park - 2018. Ayes: Commissioners Amundson, Joos, Weyer and Meyer. Nay: none. Motion carried. Resolution passed.

Motion by Joos, seconded by Meyer to offer Resolution #1215. A Resolution Amending Resolution #1010 Adopting Utility Deposits for The Shakopee Public Utilities. Ayes: Commissioners Joos, Amundson, Meyer and Weyer. Nay: none. Motion carried. Resolution passed.

The September 2018 Financial Results were presented by Finance Director Schmid.

The election of the Interim SPU Vice President took place and Commissioner Joos was elected for the position.

The tentative commission meeting dates of November 5 and November 19 were noted.

Motion by Joos, seconded by Meyer to adjourn to the November 5, 2018 meeting. Motion carried.

Commission Secretary: John R. Crooks

RESOLUTION #1216

ADOPTING THE ELECTRIC SERVICE RULES AND REGULATIONS OF THE SHAKOPEE PUBLIC UTILITIES COMMISSION

AND PROVIDING FOR GENERAL ADMINISTRATION

WHEREAS, it is deemed to be of benefit to have assembled into a comprehensive document the policies of the Shakopee Public Utilities Commission applicable to accessing electric service from the Shakopee Public Utilities electric system; and

WHEREAS, it is necessary to provide a balance between firm regulations and some degree of flexibility to respond to unforeseen circumstances or new technologies; and

WHEREAS, it is necessary to provide for administration of such policies by providing a framework for interpretation and routine modifications of details; and

WHEREAS, it is necessary to provide for timely adjustments of rates, fees, and charges.

NOW THEREFORE, BE IT RESOLVED that the Shakopee Public Utilities Commission Electric Service Rules and Regulations adopted by this resolution is applicable to all electric service requested or supplied by connection to the Shakopee Public Utilities electric system.

BE IT FURTHER RESOLVED that the Electric Service Rules and Regulations is represented as a faithful attempt at compiling policies, however the Shakopee Public Utilities Commission reserves the right to adopt policies without being limited by this resolution or by the Electric Service Rules and Regulations.

BE IT FURTHER RESOLVED that adjustment of rates, fees, and charges covered by the Electric Service Rules and Regulations may be implemented by Commission action from time to time.

BE IT FURTHER RESOLVED that the Utilities Manager or his delegate is charged with the administration of all policies including interpretations, routine modifications, or details.

BE IT FURTHER RESOLVED that the assessment rights of the City of Shakopee under state law are not compromised by this Resolution.

BE IT FURTHER RESOLVED that all things necessary to carry out the terms and purpose of this Resolution are hereby authorized and performed.

Adopted in Regular Session of the Shakopee Public Utilities Commission, this 5th day of November, 2018.

Commission President: Aaron Weyer

SHAKOPEE PUBLIC UTILITIES MEMORANDUM

TO:

SHAKOPEE PUBLIC UTILITIES COMMISSSION

FROM:

JOHN R. CROOKS, UTILITIES MANAGÉR

SUBJECT:

OCTOBER 2018 MMPA BOARD MEETING PUBLIC SUMMARY

DATE:

OCTOBER 31, 2018

The Board of Directors of the Minnesota Municipal Power Agency (MMPA) met on October 23, 2018 at the offices of Shakopee Public Utilities.

The Board was updated on the status of repairs to Faribault Energy Park from a tornado that hit the plant on September 20.

The Board discussed the status of several renewable projects that the Agency is pursuing.

An expanded rollout of the high school component of MMPA's Energy Education program is underway. This offering is a companion to the fourth grade FEP Tour Event Assembly programs in which more than 15,000 students have participated since the program's inception.

SHAKOPEE PUBLIC UTILITIES MEMORANDUM

TO:

John Crooks, Utilities Manager

FROM:

Joseph D. Adams, Planning & Engineering Director

SUBJECT:

Semi-Final Capital Improvement Plan for 2019-2023

DATE:

October 26, 2018

ISSUE

The Semi-Final Capital Improvement Plan for 2019-2023 is submitted for consideration by the Commission at their November 5, 2018 meeting. I will present the plan and take questions during the meeting.

Dated: October 26, 2018

Administrative Summary

| | | | 2018 | | | | | |
|---|---------------------------------|---------------|--------------|-----------|-----------|-------------|-------------|-------------|
| | Item Description | Justification | Carryover | 2019 | 2020 | 2021 | 2022 | 2023 |
| 1 | General Office Equipment | See detail | ·- | 147,700 | 140,000 | 100,000 | 100,000 | 100,000 |
| 2 | Hardware | See detail | 6 - 6 | 324,356 | 155,800 | 260,878 | 197,450 | 230,450 |
| 3 | Software | See detail | - | 32,000 | 30,000 | 30,000 | 30,000 | 30,000 |
| 4 | | | | | | | | |
| 5 | Total Administrative | | \$0 | \$504,056 | \$325,800 | \$390,878 | \$327,450 | \$360,450 |
| 6 | | | | | | | | |
| 7 | Cumulative Total Administrative | | \$0 | \$504,056 | \$829,856 | \$1,220,734 | \$1,548,184 | \$1,908,634 |
| | | | | | | | | |
| | | Electric | \$0 | \$378,042 | \$244,350 | \$293,159 | \$245,588 | \$270,338 |
| | | Water | \$0 | \$126,014 | \$81,450 | \$97,720 | \$81,863 | \$90,113 |

Dated: October 26, 2018 Administrative Detail

| Туре | Item | Source of Request | Justification | Qty | Unit Cost | 2018 Carryover | 2019 | 2020 | 2021 | 2022 | 2023 |
|-------------------|---|------------------------------|--|-----|--------------|-------------------|---------|---------|---------|---------|------|
| Gen Office Equipt | Electronic White Board/Projector/Lap Top - Conference Room B | Plan/Eng | Map Display for Engineering Meetings/Presentations | | | - | 12,400 | - | - | - | 14 |
| Gen Office Equipt | File shelving/Scanning Equipment | F&A | Record retention (10 shelf units at \$500/2 scanners at \$2,000 ea) | | | - | 9,000 | - | Ξ | - | |
| Gen Office Equipt | Cube Build Out | F&A | Staff Addition | | | | 7,000 | | | | |
| Gen Office Equipt | Electronic White Board/Projector/Lap Top - Training Room | Plan/Eng, Water, Electric | Map Display for Meetings/Presentations/Training/Conferences | | | - | | 15,000 | - | - | |
| Gen Office Equipt | Copier & Fax Upgrades | F&A - IT | Replace Aging Equipment | 3 | 10,000 | * | 30,000 | - | = | - | |
| Gen Office Equipt | Commission Room Interactive Display Solution | Plan/Eng | Map Display for Meetings/Presentations/Training/Conferences | | | = | 7,000 | | - | - | |
| Furn & Equipment | Standing workstation | F&A-IT/Cust Svc/Eng/Admin | Employee Health and Wellness | 17 | 900 | - | 15,300 | - | - | | |
| Furn & Equipment | Office Chairs | F&A | Replace service center office chairs - aging equipment | 65 | 800 | - | 52,000 | - | - | - | |
| Furn & Equipment | Commission Room AV Equipment | F&A - IT | Upgrade Commission Room AV Equipment & Microphones | | | - | Ξ | 100,000 | | = | |
| Gen Office Equipt | General office equipment | F&A - IT | General equipment replacements | | | 35 | 15,000 | 25,000 | 100,000 | 100,000 | 100 |
| Total General O | ffice Equipment | | | | | - | 147,700 | 140,000 | 100,000 | 100,000 | 100 |
| Hardware | Replacement computers | F&A - IT | Replace aging Equipment & 2 staff additions in Finance & Eng | 14 | 1,000 | - | 14,000 | 14,000 | 14,000 | 14,000 | 14 |
| Hardware | Miscellaneous Hardware | F&A - IT | Future planning | | | - | - | 50,000 | 125,000 | 125,000 | 125 |
| Hardware | I series Server Replacement | F&A - IT | Replace aging equipment | | | - | - | | 50,000 | - | |
| Hardware | Spare Equipment | F&A - IT | Spare Equipment for emergency replacement(monitors/printers/etc) | | | - | 3,000 | 3,000 | 3,000 | 3,000 | |
| Hardware | Server room UPS maintenance/battery replacement | F&A - IT | Uninterrupted power supply & battery back up replacement | 1 | 2,000 | - | 2,000 | 2,000 | 2,000 | 2,000 | 2 |
| Hardware | Web Server | Marketing | Hosted Web Solutions - Customer Service Improvement | 1 | | - | 30,000 | | - | - | |
| Hardware | Remit Plus Scanners - Payment Processing | Cust. Service | Scanner Replacements | 3 | 4,000 | - | - | 12,000 | | - | |
| Hardware | Tablets for Trucks | Electric | 2nd phase of data maps in the field | 8 | 600 | - | - | 4,800 | | n=1 | |
| Hardware | Electric SCADA Disk Drives | Electric | Redundancy | 2 | 500 | - | 1,000 | | = | - | |
| Hardware | Wireless System Upgrade/Replacement | F&A - IT | Replace aging equipment | | | - | | - | - | - | 25 |
| Hardware | Fiber Ring /INET Connectivity | F&A - IT | Connectivity/Redundancy for systems/remote sites | | | - | 78,000 | 50,000 | 50,000 | 50,000 | 50 |
| Hardware | Network Switches | F&A - IT | Future Standard Replacement Cycle | | | - | - | 20,000 | | - | |
| Hardware | ShoreTel Phones | F&A - IT | Replace aging phones - compatible with Mitel | 10 | 400 | - | 4,000 | - | = | - | |
| Hardware | Phone System Replacement | F&A - IT | Current system no longer supported by end of 2019 | | | - | 75,000 | - | - | - | |
| Hardware | VMware HP DL380p Server - Add Host machine | F&A - IT | To meet capacity needs (could move to 2020 if needed) | | | | 75,000 | | - | - | |
| Hardware | AS400 iSeries DR Solution Cybernetics iGuard Replication | F&A - IT | Position for Disaster Recovery & Backup/replication appliance to CPS Data Center. DR VPN Tunnel Access | | | - | 26,356 | - | - | ,-, | |
| Hardware | NAS Backup Device | F&A - IT | Replacement of existing equipment | 1 | 6,000 | - | 6,000 | - | - | - | |
| Hardware | Vmware/Windows Backup and Disaster Recovery - Unitrends | F&A - IT | Future maintenance contracts for Vmware system | | | - | | - | 16,878 | 3,450 | 3 |
| Hardware | Water Scada System Replacements | Water | Server/Workstation 6 years old/needs upgrade to Windows 10 | 2 | 4,000 | | 8,000 | | | | 8 |
| Hardware | Lobby - Replace IPAD Kiosk | F&A - IT | Improved Customer Service | 1 | 2,000 | - | 2,000 | | - | - | |
| Total Hardware | | | | | | | 324,356 | 155,800 | 260,878 | 197,450 | 230 |
| Software | Software | F&A - IT | Misc/Future budgeting | | | - | 15,000 | 30,000 | 30,000 | 30,000 | 30 |

Shakopee Public Utilities Capital Improvement Plan Semi-Final Dated: October 26, 2018

Administrative Detail

| | | | Source of | | | Unit | 2018 | | | | | |
|----|-------------------|--|-----------|--|-----|-------|----------------|---------|---------|-----------|-----------|-----------|
| | Туре | Item | Request | Justification | Qty | Cost | Carryover | 2019 | 2020 | 2021 | 2022 | 2023 |
| 34 | Software | Microsoft Client License - CALS | Electric | Client License needed to add email & SPAM filter at user level | 50 | 100 | Y - | 5,000 | - | = | - | - |
| 35 | Software | Microsoft Windows Server 2016 Datacenter Lic | F&A - IT | Vmware Microsoft server licenses | 2 | 6,000 | - | 12,000 | | - | - | (=) |
| 36 | Total Software | | | | | | - | 32,000 | 30,000 | 30,000 | 30,000 | 30,000 |
| 37 | Total CIP Expendi | itures - Administration | | | | | | 504,056 | 325,800 | 390,878 | 327,450 | 360,450 |
| 38 | Cumulative CIP E | xpenditures - Administration | | | | | | 504,056 | 829,856 | 1,220,734 | 1,548,184 | 1,908,634 |

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Shakopee Public Utilities Capital Improvement Plan Semi-Final

Dated: October 26, 2018

Electric Summary

| Item Description | Justification | 2018 Carryover | 2019 | 2020 | 2021 | 2022 | 2023 |
|--|----------------|-------------------|-----------|------------|------------|------------|-----------|
| item Description | - Caotinoation | | | | | | |
| Operating Fund | | | | | | | |
| System Projects | | | | | | | |
| Miscellaneous | See Detail | | 175,000 | 175,000 | 175,000 | 175,000 | 175,00 |
| System Material & Facilities | See Detail | - | 684,500 | 560,000 | 495,000 | 510,000 | 495,00 |
| Vehicles/Equipment | See Detail | - | 480,500 | 351,000 | 395,000 | 460,000 | 550,00 |
| Local Area Projects | | | | | | | |
| New UG Cables & Related Cost (Net of Contribution) | See Detail | _ | 350,000 | 350,000 | 400,000 | 400,000 | 450,00 |
| Replace UG Cable Projects | See Detail | - | 135,000 | 75,000 | 75,000 | 75,000 | 75,00 |
| Rebuild OH Lines | See Detail | - | 275,000 | 437,500 | 275,000 | 275,000 | 250,00 |
| Major System Projects | | | | | | | |
| Feeder Extension Projects | See Detail | _ | 1,643,750 | 585,000 | 303,750 | 542,750 | 1,157,75 |
| Convert OH to UG | See Detail | _ | 250,000 | 35,000 | - | - | - |
| Territory Acquisition | See Detail | = | 350,000 | 100,000 | 100,000 | 100,000 | 100,00 |
| Shakopee Substation | See Detail | - | 110,000 | - | - | - | |
| South Shakopee Substation | See Detail | - | 46,000 | _ | 30,000 | - | - |
| Pike Lake Substation | See Detail | - | 80,000 | - | - | - | - |
| Dean Lake Substation | See Detail | | 21,000 | 105,000 | - | - | - |
| East Shakopee Substation | See Detail | - | 350,000 | - | - | - | - |
| West Shakopee Substation | See Detail | - ' | 650,000 | - | 200,000 | 4,400,000 | - |
| Upgrade Projects | See Detail | - | 320,000 | 290,000 | 200,000 | 210,000 | 220,00 |
| ADVANCED METERING INFRASTRUCTURE (AMI) | See Detail | - | 50,000 | 1,770,000 | 1,820,000 | 1,700,000 | - |
| Service Center | See Detail | - | 160,000 | 125,000 | 3,045,000 | 45,000 | 4,052,00 |
| Total Operating Fund | | - | 6,130,750 | 4,958,500 | 7,513,750 | 8,892,750 | 7,524,75 |
| Relocation Fund | | | | | | | |
| Relocation Projects | See Detail | - | 112,500 | 342,750 | 232,500 | 52,000 | 384,00 |
| Total Relocation Fund | | | 112,500 | 342,750 | 232,500 | 52,000 | 384,00 |
| Total Electric | | - | 6,243,250 | 5,301,250 | 7,746,250 | 8,944,750 | 7,908,7 |
| | | | | | | | |
| CumulativeTotal Electric | | | 6,243,250 | 11,544,500 | 19,290,750 | 28,235,500 | 36,144,25 |

Shakopee Public Utilities Capital Improvement Plan Semi-Final Dated: October 26, 2018

| Item Description | Justification | 2018 Carryover | 2019 | 2020 | 2021 | 2022 | 2023 |
|--|---|-------------------|--|-------------------|--------------|---------|---------|
| Operating Fund | | • | | | 2021 | 2022 | 2023 |
| System Projects | | | | | | | |
| Miscellaneous | As Necessary | | | | | | |
| Total Miscellaneous | 7.6 Necessary | - | 175,000 | 175,000 | 175,000 | 175,000 | 175,0 |
| System Material & Facilities | | - | 175,000 | 175,000 | 175,000 | 175,000 | 175,0 |
| Lateral Circuit Reconfiguration | System Reliability | | | | | | |
| Portable Trench Shoring Equipment | Trench Safety | - | 85,000 | 25,000 | 25,000 | 25,000 | 25,0 |
| SCADA Switches for Tie Switches | System Reliability | - | | - | - | .= | ,- |
| Meters | New Construction | - | 80,000 | 80,000 | | - | - |
| Padmount Switches & Related | Load/Development | = | 63,000 | 55,000 | 50,000 | 50,000 | 50,0 |
| Distribution Transformers | Restock to min. | - | 125,000 | 125,000 | 150,000 | 150,000 | 150,0 |
| System Capacitors-Additional | PF Improvements | - | 200,000 | 200,000 | 205,000 | 205,000 | 205,0 |
| SCADA-Capacitor Control UG Cable Locator | Op. Efficiencies & Voltage Control | - | 25,000 40,000 | 25,000 | 25,000 | 25,000 | 25,0 |
| CT Burden/3 Phase Meter Tester | Replace Old Equipment | _ | 40,000 | 40,000 10,000 | 40,000 | 40,000 | 40,0 |
| PMI | Meter Tester | _ | 12,000 | - | - | - | - |
| Substation Battery Charger | Voltage Moniotring | _ | 15,000 | - | - | - | - |
| Remote Cutter | Spare Charger | - | 5,500 | _ | - | - | - |
| Pole Wrap & Cover Up | Safety | - | 4,000 | | _ | _ | - |
| Meter Tester | Reliability | - | 30,000 | _ | _1 | _ | _ |
| Total System Material & Facilities | Replace Old Equipment | - | | - | - | 15,000 | _ |
| Vehicles/Equipment | | | 684,500 | 560,000 | 495,000 | 510,000 | 495,00 |
| Construction-Related Equipment-New/Additional/Replacement | Teel Deele | | | | | | |
| #611 Bucket Truck 4X4 Boom | Tool Replacement | - | 45,000 | 45,000 | 45,000 | 45,000 | 45,00 |
| #636 One Ton w/Utility Box | Possible \$15-\$20 K trade in value | - | 100,000 | - | - | - | 10,00 |
| Tractor/Back Hoe #638 | Life Cycle Replacement | - | 55,000 | _ | _ | | - |
| Pole Trailer | Life Cycle Replacement | - | 200,000 | _ | | - | - |
| | Life Cycle Replacement - (25 yr) | _ | 17,000 | | - | - | - |
| Chipper | Life Cycle Replacement | | 55,000 | - | | = | - |
| Skid Loader Trailer | New Equipment | - | 6. 6. 7. 6. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. | - | - | - | - |
| #642 One Ton Dump Truck | Life Cycle Replacement | - | 8,500 | - | - | - | \ |
| Air Compressor | Life Cycle Replacement | - | - | 50,000 | - | - | - |
| Backyard Digger/Bucket Truck Backyard Mini Skid Loader | New Equipment | - | - | 30,000 | - | - | - |
| Single Wire Reel Trailer | New Equipment | = | | 175,000 40,000 | - | - | - |
| Skid Steer Loader #624 | Life Cycle Replacement | - | _ | 11,000 | - | - | - |
| 616 Double Bucket | Life Cycle Replacement | - | _ | - | 50,000 | | - |
| Directional Bore Equipment | Life Cycle Replacement | - | - | - | 300,000 | _ | _ |
| /ac-Tron | New Equip for UG Construction | - | - | _ | - | 250,000 | _ |
| 637 Engineering Pick Up 4X4 | Life Cycle Replacement | | - | - | - | 55,000 | - |
| /lini Excavator | Life Cycle Replacement Life Cycle Replacement | - | = | 1-1 | - | 50,000 | _ |
| Digger Truck | Life Cycle Replacement Life Cycle Replacement | | = | | - | 60,000 | - |
| | Ene Cycle Replacement | - | Ε. | - | _ | - | 300,000 |
| 610 F550 4x4 Service Truck | Life Cycle Replacement | | | | | | |
| 610 F550 4x4 Service Truck orklift otal Vehicles/Equipment | Life Cycle Replacement Life Cycle Replacement | - | - | - | - | - | 175,000 |

Dated: October 26, 2018

| Item Description | on | Justification | Ca | 2018 arryover | 2019 | 2020 | 2021 | 2022 | 2023 |
|---|--|---|----|------------------|-----------|---------|----------------|----------------|-----------|
| . 8 | Local Area Projects | | | | | | | | |
| | s & Related Cost (Net of Contribution) | Load/Development | | _ | 350,000 | 350,000 | 400,000 | 400,000 | 450.000 |
| | Cables & Related Cost (New of Contribution) | Louding Colonia in Colo | | _ | 350,000 | 350,000 | 400,000 | 400,000 | 450,000 |
| | | | | | 000,000 | 000,000 | , | , | |
| 2 Replace UG Ca | | | | | | | | ť | |
| A THEOLOGY IN ANY KIND TOMOS IN CONTROL | ler Relocation 12th Ave Recon 0.125 mile | Street Project | | = | 60,000 | - | - | - | - |
| | ble - Projects Yet To Be Determined | As Needed | | - | 75,000 | 75,000 | 75,000 | 75,000 | 75,000 |
| 5 Total Replace | UG Cable Projects | | | * | 135,000 | 75,000 | 75,000 | 75,000 | 75,000 |
| 7 Rebuild OH Lir | nes | | | | | | | | |
| 8 Rebuild OH line | s - as needed RP3 | Change Out | | - | 200,000 | 200,000 | 200,000 | 200,000 | 200,000 |
| 9 DL-96 thru Can | terbury Commons | Street Project (Shenandoah) | | - | 25,000 | - | - | :- | = |
| O SH-08 Levee Di | rive 0.25 mile | Street Project | | - | 25,000 | - | - | - | - |
| 1 SH-10 Levee D | rive 0.25 mile | Street Project | | - | 25,000 | - | _ | = | - |
| 2 SS-31 CR 42 fro | om CR 17 to CR 83 1.625 miles | County Project | | - | - | 162,500 | () | - | - |
| 3 BL-22 Stagecoa | ach Road and Hanson Avenue | Street Project | | = | = | 75,000 | - | - | - |
| 4 DL-55 CR 83 fro | om, VIBS to Hwy 169 0.75 mile | County Project | | - | - | | 75,000 | - | - |
| | outh of CR 42 to CR 82 0.75 mile | Street Project | | _ | - | | - | 75,000 | - |
| 6 SS-32 CR 15 @ | Vierling Drive & Hwy 169 Ramps 0.50 mile | Roundabout Impacts | | - | - | - | - | _ | 50,000 |
| 7 Total Rebuild 0 | | | | - | 275,000 | 437,500 | 275,000 | 275,000 | 250,000 |
| 8 | Major System Projects | | | | | | | | |
| ง 0 Feeder Extens | ion Projects | | | | | | | | |
| | stagecoach Rd 0.25 mile | Development | | _ | 56,250 | - | - | _ | - |
| | m CR16 to Mulenhardt 0.50 mile | Load Growth | | _ | 112,500 | _ | - | - | |
| | eder DL Sub to 4th Ave 2.00 miles | Development (Canterbury Commons) | | _ | 450,000 | - | 1-1 | - | - |
| - | terbury Commons 0.50 mile | Load Growth | | _ | 112,500 | _ | <u>-</u> | = | _ |
| | xt, from CR15 to CR69 1.25 mile | Street Project & Development | | _ | 112,500 | 117,000 | 60,750 | _ | _ |
| The same source to the same of | SS Sub to CR 69&HWY169 via Xcel Easement, CR78&CR69 3.75 miles OH/UG Mix | Load Growth | | _ | 575,000 | - | - | _ | _ |
| TOTAL BUILD AND ENDINGES OF AUTOMOBILE SE | Exit Circuits 1.0 mile | Load Growth | | | - | 234,000 | _ | _ | _ |
| | eder SS Sub to CR 17 via Stonebrooke 0.75 mile | Load Growth | | | _ | 204,000 | _ | 189,750 | _ |
| | e Substation Exit Circuits | Load Growth | | _ | _ | _ | _ | 100,000 | 500,000 |
| | eder DL Sub to Barenscheer Blvd 1.0 mile | Development (Canterbury Commons) | | _ | _ | | _ | - | 263,100 |
| | Extension to Data Center 0.5 mile | Load Growth (Data Center) | | - | - | - | - | - | 131,550 |
| | | As Necessary | | - | 225,000 | 234,000 | 243,000 | 253,000 | 263,100 |
| | be Determined 1.0 mile | As Necessary | | - | 1,643,750 | 585,000 | 303,750 | 542,750 | 1,157,750 |
| | xtension Projects | | | | | | | | 1,101,100 |
| | per mile unless noted otherwise | | | - | 225,000 | 234,000 | 243,000 | 253,000 | - |
| 6 7 Convert OH to | IIG | | | | | | | | |
| | rive 0.25 mile x 2.3 (rock) | Street Project | | - | 125,000 | 2 | - | - | - |
| | rive 0.25 mile x 2.3 (rock) | Street Project | | - | 125,000 | _ | - | - | × |
| 00 Muhlenhardt Un | ndergrounding 0.75 mile | Reliability | * | - | - | 35,000 | 5-0 | - | - |
| 01 Total Convert | OH to UG | | | - | 250,000 | 35,000 | - | - | - |

Shakopee Public Utilities Capital Improvement Plan Semi-Final Dated: October 26, 2018

| Item Description | Justification | 2018 Carryover | 2019 | 2020 | 2021 | 2022 | 2023 |
|--|--|-------------------|-------------------------|---------|---------|-----------|--------|
| | | | | | | | |
| Territory Acquisition | | | | | | | |
| Territory Acquisition | Purchase | - | 200,000 | - | - | = | - |
| Territory Acquisition | Consolidation | - | 150,000 | 100,000 | 100,000 | 100,000 | 100,00 |
| Total Territory Acquisition | | * | 350,000 | 100,000 | 100,000 | 100,000 | 100,00 |
| Shakopee Substation | | | | | | | |
| Land Rights | Load Growth/Downtown Re-development | _ | 100,000 | _ | _ | _ | |
| Substation to County Fiber & Fiber Equipment | A 4 TO 7 TO 6 Suprocess of supposed Sup | _ | 10,000 | | _ | _ | |
| Total Shakopee Substation | | | 110,000 | _ | | | |
| | | | 110,000 | | | | |
| South Shakopee Substation | | | | | | | |
| Upgrade to RTAC C3 ilex | For SCADA | - | 30,000 | 2 | - | = | - |
| Substation to County Fiber & Fiber Equipment | | - | 10,000 | - | - | - | = |
| Heater/AC | Add AC to control building | - | 6,000 | | :_ | - | - |
| Oil Change Out on Tap Changer | Maintenance/Extend Life of Tap Changer | - | - | - | 30,000 | - | _ |
| Total South Shakopee Substation | | | 46,000 | | 30,000 | - | - |
| Pike Lake Substation | | | | | | | |
| SCADA C3 ilex/Schweitzer RTAC & Blue Lake | Change out C3ilex | | = | | | | |
| Oil Change Out on Tap Changer | | - | 50,000 | - | = | = | - |
| Substation to County Fiber & Fiber Equipment | Maintenance/Extend Life of Tap Changer | - | 25,000 | 1-1 | - | _ | - |
| Total Pike Lake Substation | | - | 5,000 | - | | - | - |
| Total Fike Lake Substation | | | 80,000 | - | | | - |
| Dean Lake Substation | | | | | | | |
| Grating T3 | Safety | _ | _ | _ | _ | _ | _ |
| Upgrade to Schweitzer Relays | For SCADA | - | _ | _ | _ | _ | |
| Oil Change Out on Tap Changer | Maintenance/Extend Life of Tap Changer | - | _ | 30,000 | | _ | _ |
| Substation to County Fiber & Fiber Equipment | The state of the s | | 6,000 | - | - | - | - |
| Dean Lake 2 Circuit Switchgear | | - | | | - | - | - |
| Heater/AC Building 1 & 2 | Add AC to control building | - | - 15 000 | 75,000 | - | - | - |
| Total Dean Lake Substation | Add No to control building | - | 15,000 21,000 | 105,000 | | | |
| | | | 21,000 | 105,000 | - | - | - |
| East Shakopee Substation | | | | | | | |
| Land Rights | Load Growth | - | 350,000 | - | - | _ | - |
| Total East Shakopee Substation | | - | 350,000 | _ | - | _ | - |
| | | | | | | | |
| West Shakopee Substation | | | | | | | |
| Land Rights | Load Growth | _ | 650,000 | | | _ | |
| Planning/Design/Project Management | Load Growth | _ | - | - | 200,000 | 400,000 | - |
| Construction | Load Growth | _ | - | - | 200,000 | 4,000,000 | - |
| Construction | | | | | | | |

Dated: October 26, 2018

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|------------|--|---|-----------------|------------------|-----------|-----------|-----------|-----------|
| • | Many Department | lugatification | 2018 | 2040 | 2020 | 2024 | 2022 | 2022 |
| 9 | Item Description | Justification | Carryover | 2019 | 2020 | 2021 | 2022 | 2023 |
| | Upgrade Projects | All | | | | | | |
| | Downtown Alley Reconstruction add duct banks | Alley paving w/concrete | - | 100,000 | 100,000 | = | - | = |
| | SH-08 Reconductoring 4th, Spencer, Fillmore, Somerville | Load Growth | - | 40,000 | - | - | - | - |
| | Projects yet to be determined | | - | 180,000 | 190,000 | 200,000 | 210,000 | 220,000 |
| 149 150 | Total Upgrade Projects | | - | 320,000 | 290,000 | 200,000 | 210,000 | 220,000 |
| 151 | ADVANCED METERING INFRASTRUCTURE (AMI) | | | | | | | |
| 152 | Planning/Design/Project Management | Project Planning/Design | - | 50,000 | 70,000 | 120,000 | - | - |
| 153 | Construction/Implementation/Hardware/Software/Training | Customer Service | _ | - | 1,700,000 | 1,700,000 | 1,700,000 | 1-1 |
| 154 | Total ADVANCED METERING INFRASTRUCTURE (AMI) | | - | 50,000 | 1,770,000 | 1,820,000 | 1,700,000 | - |
| 100 | | | | - | | | | |
| | Service Center | F324-O34- | | | | | | |
| | SPU Signage for South Public Entrance of Service Center Replace Outside Landscape Lighting | Facility Security Replace Problem Lighting and Upgrade Efficiency | - | 20,000 | - | - | - | _ |
| | Repair or Replace Exhaust Fan in Garage Area (exhaust fans not working) | Replace or Repair | - | 12,000 | - | - | - | - |
| | Miscellaneous Building Improvements/Replacements | Maint. & Requested Changes | - | 15,000 45,000 | 45,000 | 45,000 | 45,000 | 45,000 |
| | Upgrade Security System | Safety | - | 30,000 | 45,000 | 45,000 | 43,000 | 43,000 |
| | Elevated Work Surface | Calcty | - | 7,000 | - | - | - | - |
| | Display Case Office | | _ | 7,000 | _ | _ | _ | - |
| | Water Seal Building | Maintenance | - | 20,000 | _ | - | _ | - |
| 165 | Card Reader by Dispatch Desk | | - | 4,000 | - | _ | _ | - |
| | Warehouse Expansion | | - | - | 50,000 | 3,000,000 | = | - |
| | Garage Heaters | Maintenance | - | - | 30,000 | - | - | - |
| | Ice Machine | | - | _ | - | - | - | 7,000 |
| | Building Expansion Office | | Ξ. | * | - | = | = | 4,000,000 |
| | Total Service Center | | - | 160,000 | 125,000 | 3,045,000 | 45,000 | 4,052,000 |
| 171 | Total Operating Fund | | alfaertele Link | 6,130,750 | 4,958,500 | 7,513,750 | 8,892,750 | 7,524,750 |
| 173 | | | | 0,130,730 | 4,930,300 | 7,515,750 | 0,032,730 | 1,324,130 |
| | | | | | | | | |
| 174 | | | | | | | | |
| 175 | | | | | | | | |
| 176 | | | | | | | | |
| 177 | | | | | | | | |
| 178 | Relocation Projects | | | | | | | |
| 179 | | | | | | | | |
| 180 | SS-31 CR 42 from CR 17 to CR 83 1.625 miles (inc. \$73,500 for pad mount regulators) | County Project | - | - | 219,750 | - | | - |
| 181 | BL-22 Maras Street & Hanson Ave | Street Project | - | - | 75,000 | - | - | - |
| 182 | SS-32 CR 15 @ Vierling Drive & Hwy 169 Ramps 0.50 mile | Roundabout Impacts | - | - | - | - | - | 131,600 |
| 183 | DL-55 CR83 from VIBS to HWY 169 0.75 mile | County Project | - | - | - | 182,500 | - | * |
| 184 | SS-31 CR 17 South of CR 42 to CR 82 0.75 mile | Street Project | - | - | - | = | - | 197,400 |
| 185 | Projects Yet to Be Determined 0.50 Ckt. mile | As Necessary | - | 112,500 | 48,000 | 50,000 | 52,000 | 55,000 |
| 186 | Total Relocation Projects | | - | 112,500 | 342,750 | 232,500 | 52,000 | 384,000 |
| | | Page 4 of 5 | | | | | | |

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| | 6 | |

Dated: October 26, 2018

| | | | 2018 | | | | | |
|-----|-----------------------|---------------|-----------|-----------|-----------|-----------|-----------|-----------|
| 9 | Item Description | Justification | Carryover | 2019 | 2020 | 2021 | 2022 | 2023 |
| 187 | | | | | | | | |
| | Total Relocation Fund | | | 112,500 | 342,750 | 232,500 | 52,000 | 384,000 |
| 189 | | | | | | | | |
| 190 | Total Electric | | | 6,243,250 | 5,301,250 | 7,746,250 | 8,944,750 | 7,908,750 |

Dated: October 26, 2018

Water Summary

Shakopee Public Utilities Capital Improvement Plan Semi-Final

| | | | 2018 | | | | | |
|--|---|--|---|---|---|---|---|---|
| 8 | Item Description | Justification | Carryover | 2019 | 2020 | 2021 | 2022 | 2023 |
| 10 11 12 13 14 15 | Operating Fund Miscellaneous System Upgrades ADVANCED METERING INFRASTRUCTURE (AMI) Vehicles/Equipment | See Detail See Detail See Detail See Detail | 250,000 - - - - | 587,500 147,400 20,000 4,300 | 367,500 68,500 1,031,641 45,000 | 405,000 64,000 1,090,979 40,000 | 281,000 20,000 1,136,504 - | 280,000 20,000 - - |
| 16 | Total Operating Fund | | 250,000 | 759,200 | 1,512,641 | 1,599,979 | 1,437,504 | 300,000 |
| 17 18 19 20 | Reconstruction Fund Reconstruction Projects | See Detail | - | 520,000 | 220,000 | 220,000 | 210,000 | 210,000 |
| 21 | Total Reconstruction Fund | | - | 520,000 | 220,000 | 220,000 | 210,000 | 210,000 |
| 22 23 24 25 26 | Trunk Fund Trunk Water Mains - SPUC Projects Over Sizing - Non-SPUC Projects | See Detail See Detail | - , | 25,000 463,100 | 25,000 556,506 | 25,000 635,200 | 25,000 563,000 | 25,000 368,020 |
| 27 | Total Trunk Fund | | - | 488,100 | 581,506 | 660,200 | 588,000 | 393,020 |
| 28 29 30 31 32 33 34 35 36 37 | Connection Fund Wells Water Treatment Pump House Additions/Expansions New Tanks and Transmission Water Main Booster Stations Auxiliary Facilities Total Connection Fund | See Detail See Detail See Detail See Detail See Detail See Detail | - - - 3,671,851 - 3,671,851 | 350,000 - - 250,000 - - - | 53,040 - - 2,692,800 - - - 2,745,840 | 520,000 51,500 64,400 64,900 - - - 700,800 | 583,000 1,272,500 - - 200,000 2,055,500 | 5,375,800 - - - 478,000 5,853,800 |
| 38 | T-4-1W-4 | | | | | | | |
| 39 40 | Total Water | | 3,921,851 | 2,367,300 | 5,059,987 | 3,180,979 | 4,291,004 | 6,756,820 |
| 41 | CumulativeTotal Water | | 3,921,851 | 6,289,151 | 11,349,138 | 14,530,117 | 18,821,121 | 25,577,941 |

Shakopee Public Utilities Capital Improvement Plan Semi-Final

Dated: October 26, 2018 Water Detail

| | | | 2018 | | | | | |
|----|--|---|-----------|---------|------------------|-----------|---------------------|------------------|
| 8 | Item Description | Justification | Carryover | 2019 | 2020 | 2021 | 2022 | 2023 |
| 10 | Operating Fund | | | | | | | |
| 11 | Miscellaneous | | | | | | 5274-45.00 5275-227 | |
| 12 | Water Meters | PM/Development | - | 145,000 | 150,000 | 150,000 | 150,000 | 175,000 |
| 13 | Landscaping | Line of sight screening Riverview Booster | - | 13,500 | 13,500 | - | - | - |
| 14 | 8" Watermain Looping Boulder Pointe | Development | - | 104,000 | - | - | - | - |
| 15 | Cl2 Feed Improvements | Safety/Enhanced Accuracy | - | 72,000 | 75,000 | 75,000 | - | - |
| 16 | Chemical Feed Scales | Life Cycle Replacement | - | 23,000 | 24,000 | 25,000 | 26,000 | |
| 17 | Reservoir Maintenance | Preventative Maintenance | - | 50,000 | 50,000 | 50,000 | 50,000 | 50,000 |
| 18 | Power Wash Towers | Preventative Maintenance | - | 15,000 | 15,000 | 15,000 | 15,000 | 15,000 |
| 19 | Hydrant Replacement | As Needed | - | 40,000 | 40,000 | 40,000 | 40,000 | 40,000 |
| 20 | CR16 Valve & Hydrant Adjustments | County Trail Project CP-16-XX | - | 25,000 | Y=1 | 3-1 | · - | - |
| 21 | CR 83 Valve & Hydrant Adjustments | County Road Project | | - | - | 50,000 | - | - |
| 22 | 8" Watermain Looping Apgar St and 2nd Avenue | | 250,000 | 100,000 | - | - | - | - |
| 23 | Total Miscellaneous | | 250,000 | 587,500 | 367,500 | 405,000 | 281,000 | 280,000 |
| 25 | System Upgrades | | | | | | | |
| 26 | Reservoir Mixers | Water Quality | - | 35,000 | 35,000 | 35,000 | y - - | . - . |
| 27 | Sidewalk Repair | Safety/Maintenance | _ | 5,000 | (-1 | 7-1 | 3 - | - |
| 28 | Cl2 Leak Detection Upgrade | Safety/Lifecycle Replacement | - | 13,500 | 13,500 | 9,000 | : - : | |
| 29 | SCADA Communications Upgrade | Water System Reliability | - | 57,900 | - | 1-1 | e - 2 |) - |
| 30 | Sealcoat Drives/Repair | Preventative Maintenance | - | 5,000 | 5,000 | 5,000 | 5,000 | 5,000 |
| 31 | Driveway Replacement PH 6 | Preventative Maintenance | 7= | 16,000 | X _ X | 1-1 | - | - |
| 32 | Miscellaneous Equipment | As Needed | - | 15,000 | 15,000 | 15,000 | 15,000 | 15,000 |
| 33 | Total System Upgrades | | | 147,400 | 68,500 | 64,000 | 20,000 | 20,000 |
| 35 | ADVANCED METERING INFRASTRUCTURE (AMI) | | | | | | | |
| 36 | Planning/Design/Project Management | Project Planning/Design | - | 20,000 | 48,187 | 68,187 | 72,800 | , |
| 37 | Construction/Implementation/Hardware/Software/Training | Customer Service | - | - | 983,454 | 1,022,792 | 1,063,704 | - |
| 38 | Total ADVANCED METERING INFRASTRUCTURE (AMI) | | | 20,000 | 1,031,641 | 1,090,979 | 1,136,504 | - |
| 39 | Vehicles/Equipment | | | | | | | |
| 40 | Portable Pressure Calibrator | Water Quality | - | 4,300 | | = | - | - |
| 41 | Replace Truck #622 | Life Cycle Replacement | - | - | - | 40,000 | - | - |
| | | *· ** | | | | | | |

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Shakopee Public Utilities Capital Improvement Plan Semi-Final

Dated: October 26, 2018 Water Detail

| | | | 2018 | | | | | |
|----------|---|--|-----------|--------------------------|--------------------------|--------------------------|-------------------|-------------------|
| 8 | Item Description | Justification | Carryover | 2019 | 2020 | 2021 | 2022 | 2023 |
| 42 | New Positions Trucks | Customer Service | - | - | 45,000 | - | - | - |
| 43 | Total Vehicles/Equipment | | - | 4,300 | 45,000 | 40,000 | - | - |
| 44 | Total On anation of French | | 050 000 | 750 000 | 4 540 044 | 4 500 070 | 4 407 504 | 200 000 |
| 45 | Total Operating Fund | | 250,000 | 759,200 | 1,512,641 | 1,599,979 | 1,437,504 | 300,000 |
| 46 | December stien Fund | | | | | | | |
| 47 | Reconstruction Fund | | | | | | | |
| 48 | Reconstruction | City CIP | | 20,000 | 20,000 | 30,000 | 20,000 | 20,000 |
| 49 | Bituminous Overlay Reconstruction | City Street Recon | - | 30,000 | 30,000 | | | |
| 50 | Correct Deficient Services | As Needed | - | 450,000 | 150,000 | 150,000 | 150,000 40,000 | 150,000 40,000 |
| 51 | Total Reconstruction | As Needed | _ | 40,000 520,000 | 40,000 220,000 | 40,000 220,000 | 210,000 | 210,000 |
| 52 53 | Total Reconstruction | | - | 520,000 | 220,000 | 220,000 | 210,000 | 210,000 |
| 54 | Total Recontruction Fund | | | 520,000 | 220,000 | 220,000 | 210,000 | 210,000 |
| 55 | Total Necontraction Fund | | | 320,000 | 220,000 | 220,000 | 210,000 | 210,000 |
| 56 | Trunk Fund | | | | | | | |
| 57 | Trunk Water Mains - SPUC Projects (Completed by SPUC) | | | | | | | |
| 58 | Projects to be determined | | _ | 25,000 | 25,000 | 25,000 | 25,000 | 25,000 |
| 59 | Total Trunk Water Mains - SPUC Projects | | | 25,000 | 25,000 | 25,000 | 25,000 | 25,000 |
| 60 | Total Train Valor mano of our rojecto | | | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 |
| 61 | Over Sizing - Non-SPUC Projects (Completed by Others) | | | | | | | |
| 62 | 16" WM East from Monarch Estates parallel to 17th Ave to CR 83 0.875 mile NES | Development | _ | 152,400 | 79,250 | 164,800 | 171,400 | _ |
| 63 | 16" WM Windermere South from Booster Station to 2-HES Tank Site | Development | _ | 60,000 | 62,400 | 32,500 | - | _ |
| 64 | 16" WM Krystal Addition to CR 79 (800 ft) NES | Development | - | 70,000 | - | - | - | _ |
| 65 | 12" WM South from Hwy 169 to 17th Ave 0.25 mile (Hauer) NES | Development | _ | 48,700 | - | - | - | , - |
| 66 | 12" WM West from CR 17 North of Wood Duck Trail (1200 ft) 2-HES | Development | - | 40,000 | - | - | - | _ |
| 67 | 12" WM C.R. 16 from C.R. 15 west to C.R. 69 - (DR Horton) 0.25 mile/segment 2-HES | Development/City Project/Scott County Proj | = | - | 52,000 | 55,000 | 57,200 | - |
| 68 | 12" WM West of Windermere 0.75 mile 1-HES | Development | = | - | 208,000 | = | = | - |
| 69 | 12" WM on Stagecoach Rd from Eagle Creek Preserve to Hansen Ave 0.5 mile NES | Development | Ħ | - | 104,000 | = | _ | _ |
| 70 | 12" WM Vierling Drive West from CR 69 0.25 mile NES | Development | - | _ | 50,856 | = | = | = |
| 71 | 12" WM Parallel to CR 69 South from Vierling Drive 0.75 mile NES | Development | - | _ | - | 52,900 | 110,000 | - |
| 72 | 12" WM Thrush Street from CR 83 to 0.25 mile West 1- HES | Development | - | - | - | 55,000 | - | - |
| 73 | 12" WM CR 83 from Thrush Street to 0.25 mile north 1-HES | Development | - | - | ; - | 55,000 | - | - |

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Dated: October 26, 2018

Water Detail

| | | | 2018 | | | | | |
|----------|---|--------------------|-----------|---------|---------|-------------------------|-------------------------------|-----------|
| 8 | Item Description | Justification | Carryover | 2019 | 2020 | 2021 | 2022 | 2023 |
| 74 | 12" WM West of Tank Site thru area B to CR69 0.25 mile | Development | - | - | - | 110,000 | - | - |
| 75 | 12"WM West of CR 69 thru area B 0.50 mile 2-HES | Development | - | - | - | 110,000 | - | - |
| 76 | 12" WM CR 69 South of HWY 169 0.50 mile 1-HES to 2-HES | Development | = | = | = | = | 110,000 | - |
| 77 | 12" WM West of CR 69 thru area B 0.50 mile 1-HES | Development | - | - | - | - | 114,400 | - |
| 78 | 12" WM Parallel to CR 69 South from CR 16 0.25 mile 2-HES | Development | = | = | - | * | = | 59,500 |
| 79 | 12" WM Horizon Drive across CR 18 to Foothill Road 2-HES (1.0 mile) 2 HES to NES | Development | - | - | - | - | - | 225,000 |
| 80 | 8" WM on Muhlenhardt Rd 0.50 mile 1-HES to 2-HES | Development | - | - | - | - | - | 83,520 |
| 81 | Projects to be determined | | ¥ | 92,000 | £ | ¥ | - | - |
| 82 | Total Over Sizing - Non-SPUC Projects | | - | 463,100 | 556,506 | 635,200 | 563,000 | 368,020 |
| 83 | | | | | | | | |
| 84 85 | Total Trunk Fund | | | 488,100 | 581,506 | 660,200 | 588,000 | 393,020 |
| 86 | Connection Fund | | | | | | | |
| 87 | Wells | | | | | | | |
| 88 | 2-HES Well/Tank Site @ South of Windermere | Development | - | 350,000 | - | - | - | - |
| 89 | 1 or 2-HES Jordan Well @ South of Windermere or @Windermere Booster | Development | - | · - | 53,040 | 520,000 | - | - |
| 90 | Total Wells | | - | 350,000 | 53,040 | 520,000 | - | - |
| 92 | Water Treatment | | | | | | | |
| 93 | NES Jordan Well #22 Submersible (Pump House No. 3 modifications) | Radium Remediation | - | - | - | 51,500 | 518,000 | |
| 94 | Water Treatment Plant | Water Quality | - | - | - | - | 65,000 | 5,375,800 |
| 95 | Total Water Treatment | | - | - | - | 51,500 | 583,000 | 5,375,800 |
| 90 | Note: NES Well #22 and The Water Treatment Plant are not currently needed, they are put into the budget as placeholders as contingencies in the event they become | | | | | | | |
| 97 | necessary. | | | | | | | |
| 98 | Boom Harris Addition (Forest Land | | | | | | | |
| 99 | Pump House Additions/Expansions | Davolanment | | | | 64.400 | 1 272 500 | |
| 100 | 2-HES Pump House @ South of Windermere Total Pump House Additions/Expansions | Development | - | - | - | 64,400 64,400 | 1,272,500 1,272,500 | |
| 102 | Total Fully House Additions/Expansions | | - | - | - | 04,400 | 1,212,500 | |

103 New Tanks and Transmission Water Main

Dated: October 26, 2018 Water Detail

| | | | 2018 | | | | | |
|-----|---|---------------|-----------|-----------|-----------|-----------|-----------|-----------|
| 8 | Item Description | Justification | Carryover | 2019 | 2020 | 2021 | 2022 | 2023 |
| 104 | 2-HES District Storage (0.5 MG, Elevated Tank) @ South of Windermere | Development | - | 130,000 | 2,568,000 | - | - | - |
| 105 | Transmission Watermain Equivalent (16"vs. 12") Windermere Booster Station to 2-HES Tank | Development | · · | 120,000 | 124,800 | 64,900 | | |
| 106 | Total New Tanks and Transmission Water Main | | | 250,000 | 2,692,800 | 64,900 | - | - |
| 108 | Booster Stations | | | | | | | |
| 109 | Booster Station @ Windermere 1-HES to 2-HES | Development | 3,671,851 | _ | - | - | _ | - |
| 110 | Total Booster Stations | | 3,671,851 | - | - | - | - | |
| 112 | Auxiliary Facilities | Development | | | | | | |
| | Inline Booster Station Site @ Foothill Road and Horizon Drive | Development | _ | _ | _ | _ | 150,000 | _ |
| | Inline Booster Station @ Foothill and Horizon NES to 2 HES | Development | | - | - | - | 50,000 | 400,000 |
| 115 | Pressure Reducing Valve - 2-HES to 1-HES @ Horizon Drive and trail bend | Development | - | _ | - | - | - | 26,000 |
| 116 | Pressure Reducing Valve - 2-HES to 1-HES @ Muhlenhardt Rd | Development | | - | - | - | | 26,000 |
| 117 | Pressure Reducing Valve - 2-HES to 1-HES @ CR 69 | Development | - | - | - | - | - | 26,000 |
| 118 | Total Auxiliary Facilities | | | Η. | - | - | 200,000 | 478,000 |
| 119 | | | | | | | | |
| 120 | Total Connection Fund | | 3,671,851 | 600,000 | 2,745,840 | 700,800 | 2,055,500 | 5,853,800 |
| 122 | Total Water | | 3,921,851 | 2,367,300 | 5,059,987 | 3,180,979 | 4,291,004 | 6,756,820 |

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