

# ***Roy Water Conservancy District***

5440 Freeway Park Drive  
Riverdale, UT 84405

## **AGENDA**

Monthly Board of Trustees' Meeting  
November 9, 2022  
5:00 P.M.

- 5:00 p.m.
- I. **CALL TO ORDER** Chair Ohlin
  
  - II. **PLEDGE OF ALLEGIANCE** Gary Adams
  
  - III. **APPROVAL OF MINUTES** MOTION
  
  - IV. **BUSINESS**
    - A. Consideration of 2023 Tentative Budget MOTION
    - B. Consideration of Public Hearing Date for 2023 Budget – December 14, 2022, at 6:00 p.m. MOTION
    - C. Consideration of 2022 Capital Facilities Plan MOTION
    - D. Consideration of DWRe Contract for Secondary Water Metering Grant MOTION
    - E. Consideration of Voting Davis and Weber Counties Canal Company Stock at Annual D&WCCC Stockholders Meeting MOTION
    - F. Public Comments
  
  - V. **REPORTS FROM MANAGER AND TRUSTEES**
    - A. Utah Water Summit October 18, 2022
    - B. UASD Annual Convention · November 2-4, 2022
    - C. Manager & Trustees Reports (ethics pledge and conflict of interest)
    - D. Review of Monthly Bank Statements and Cancelled Checks Gary Newman
  
  - VI. **APPROVAL OF FINANCIAL REPORTS**
    - A. Monthly Financial Report MOTION
  
  - VII. **APPROVAL OF CHECKS**
    - A. Current Checks MOTION
  
  - VIII. **ADJOURNMENT** MOTION

# MEMORANDUM

TO: Board of Trustees

FROM: Rodney Banks, Manager

DATE: November 4, 2022

SUBJECT: **IV.A. Consideration of 2023 Tentative Budget**

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The attached tentative budget is for the trustees to review and make any suggestions or comments in this board meeting. Items of note for the 2023 tentative budget:

1. In Capital Improvements, there are a few projects that the District is coordinating with Roy City. Roy City has multiple asphalt overlay projects they are looking to complete, but the District will not be able to participate in all of those. The tentative budget lists the projects the District plans on completing as Roy City completes their projects.
2. In New Assets there is a line item for security cameras for the District's property.

A suggested motion would be, "I move that we approve the 2023 Tentative Budget."

**2023 TENTATIVE BUDGET**

November 9, 2022  
Board Meeting

		<u>Roy Water</u>	<u>West Haven System</u>	<u>Total</u>
<b><u>O &amp; M REVENUE</u></b>				
<b><u>TAXES COLLECTED BY WEBER COUNTY</u></b>				
3030	Ad Valorem Tax	\$128,000.00	-	\$128,000.00
3036	Registered Vehicle F.I.L.	\$14,000.00	-	\$14,000.00
3037	Delinquent Ad Valorem Tax	\$3,000.00	-	\$3,000.00
<b>Total:</b>		<b>\$145,000.00</b>	<b>\$0.00</b>	<b>\$145,000.00</b>

**ASSESSMENTS & SPECIAL ASSESSMENT**

3034	Delinquent Assessments	\$30,000.00	-	\$30,000.00
3035	Direct Charges/Assessments	\$2,514,000.00	-	\$2,514,000.00
3040	Non-Taxable Entity Assessments	\$71,000.00	-	\$71,000.00
3045	Homeowners 1 Yr Only Assmnt.	\$1,000.00	-	\$1,000.00
3050	Homeowners Yearly Assessments	\$6,000.00	-	\$6,000.00
<b>Total:</b>		<b>\$2,622,000.00</b>	<b>\$0.00</b>	<b>\$2,622,000.00</b>

**OTHER INCOME**

3016	Cell Tower Leases	\$57,000.00	-	\$57,000.00
3020	Surplus Water Sales/Wheeling Ch	\$13,000.00	-	\$13,000.00
3028	Interest - Checking & Investments	\$25,000.00	-	\$25,000.00
3150	Misc. Income	\$1,000.00	-	\$1,000.00
3156-23	Sale of 2023 Vehicles	\$300,000.00	-	\$300,000.00
3158-22	Sale of 2022 CAT 938M	\$180,000.00	-	\$180,000.00
3601-23	DWRe Grant	\$5,000,000.00	-	\$5,000,000.00
3602-23	DWRe Bond	\$1,821,500.00	-	\$1,821,500.00
3603-23	DWRe Escrow	\$321,500.00	-	\$321,500.00
3300	Weber Basin - West Haven System	\$0.00	\$230,000.00	\$230,000.00
3301	Weber Basin Administrative Fee	\$0.00	\$11,500.00	\$11,500.00
<b>Total:</b>		<b>\$7,719,000.00</b>	<b>\$241,500.00</b>	<b>\$7,960,500.00</b>

<b>TOTAL ESTIMATED INCOME:</b>		<b>\$10,486,000.00</b>	<b>\$241,500.00</b>	<b>\$10,727,500.00</b>
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**O. & M. - GENERAL EXPENSE**

**TRAVEL EXPENSE & DIRECTORS FEES**

		<u>Roy Water</u>	<u>West Haven System</u>	<u>Total</u>
4900	Trustees Fees & Extra Meetings	\$20,000.00	-	\$20,000.00
<b>Total:</b>		<b>\$20,000.00</b>	<b>\$0.00</b>	<b>\$20,000.00</b>

**PROFESSIONAL & TECHNICAL SERVICES**

4903	Scada	-	\$1,500.00	\$1,500.00
4906	Engineering	\$50,000.00	\$2,500.00	\$52,500.00
4907	Audit/CPA	\$18,000.00	\$2,000.00	\$20,000.00
4908	Attorney	\$30,000.00	\$3,000.00	\$33,000.00
4909	Advertising, Publishing & Postage	\$30,000.00	\$1,000.00	\$31,000.00
4910	Other Professional Services	\$0.00	-	\$0.00

**2023 TENTATIVE BUDGET**

November 9, 2022  
Board Meeting

	<u>Roy Water</u>	<u>West Haven System</u>	<u>Total</u>
<b>Total:</b>	<b>\$128,000.00</b>	<b>\$10,000.00</b>	<b>\$138,000.00</b>

**INSURANCE**

4911	Liability	\$36,000.00	\$2,000.00	\$38,000.00
4912	Workers Compensation	\$10,000.00	\$2,500.00	\$12,500.00
4913	Bonding	\$1,000.00	-	\$1,000.00
<b>Total:</b>		<b>\$47,000.00</b>	<b>\$4,500.00</b>	<b>\$51,500.00</b>

**ASSESSMENTS**

5100	Roy City Water Rental	\$26,000.00	-	\$26,000.00
5101	D & W Water Assessment	\$410,000.00	-	\$410,000.00
5103	Other Water Rental	\$17,000.00	-	\$17,000.00
5105	Weber Basin Lease Contract	\$46,000.00	-	\$46,000.00
5106	Wilson Water Assessment	\$2,500.00	-	\$2,500.00
<b>Total:</b>		<b>\$501,500.00</b>	<b>\$0.00</b>	<b>\$501,500.00</b>

**ASSOCIATION DUES/WATER CONSERVATION & EDUCATION**

5200	Utah Water Users Association	\$1,500.00	-	\$1,500.00
5201	Association of Special Districts	\$3,000.00	-	\$3,000.00
5202	Water Education	\$1,000.00	-	\$1,000.00
5204	American Water Works	\$700.00	-	\$700.00
5205-1	Irrigation Caucus	\$400.00	-	\$400.00
5206-1	Water Conservation (Other)	\$500.00	-	\$500.00
<b>Total:</b>		<b>\$7,100.00</b>	<b>\$0.00</b>	<b>\$7,100.00</b>

**WORKSHOPS & TRAINING**

5300	Director Workshops/Training	\$22,000.00	-	\$22,000.00
5301	Employee Workshops/Training	\$26,000.00	-	\$26,000.00
<b>Total:</b>		<b>\$48,000.00</b>	<b>\$0.00</b>	<b>\$48,000.00</b>

**SALARIES & BENEFITS**

5302	Medicare	\$9,500.00	\$1,800.00	\$11,300.00
5303-0,6	Gross Wages	\$487,000.00	\$123,750.00	\$610,750.00
5303-1,4	Overtime	\$34,500.00	\$8,250.00	\$42,750.00
5303-5,7	Double Time	\$2,250.00	\$1,550.00	\$3,800.00
5303-10	Sick Leave Pay	\$38,500.00	-	\$38,500.00
5303-11	Annual Leave Pay	\$45,250.00	-	\$45,250.00
5303-12,15	Pager Time	\$10,500.00	\$6,250.00	\$16,750.00
5303-13	Compensation Time	\$2,000.00	-	\$2,000.00
5303-14	Holiday Pay	\$27,500.00	-	\$27,500.00
5304	FICA	\$41,250.00	\$7,250.00	\$48,500.00
5305	Federal Tax	\$0.00	-	\$0.00



**2023 TENTATIVE BUDGET**

November 9, 2022  
Board Meeting

		<u>Roy Water</u>	<u>West Haven System</u>	<u>Total</u>
5306	State Tax	\$0.00	-	\$0.00
5307	Retirement	\$90,250.00	\$17,000.00	\$107,250.00
5308	Health Insurance	\$132,000.00	\$23,000.00	\$155,000.00
5309	401K	\$28,500.00	\$5,250.00	\$33,750.00
5311	Unemployment Comp.	\$3,250.00	\$100.00	\$3,350.00
5312	Disability	\$3,250.00	\$500.00	\$3,750.00
	<b>Total:</b>	<b>\$955,500.00</b>	<b>\$194,700.00</b>	<b>\$1,150,200.00</b>

**OFFICE EXPENSES**

5315	General Office Expenses	\$20,000.00	-	\$20,000.00
5316	Office Travel Reimbursement	\$1,500.00	-	\$1,500.00
5317	Managers Expense	\$1,500.00	-	\$1,500.00
5318	Air Conditioning & Heating	\$2,000.00	-	\$2,000.00
5319	Computer Tech. Repair & Agrmnts	\$20,000.00	-	\$20,000.00
5321	Adjustments & Refunds	\$500.00	-	\$500.00
5323	Computer Hardware & Software	\$18,000.00	-	\$18,000.00
5324	Radio Maintenance	\$1,000.00	-	\$1,000.00
5325	Bldg Cleaning & Maint. Supplies	\$500.00	-	\$500.00
5326	Janitorial Services	\$3,000.00	-	\$3,000.00
5327	Office Improvements	\$15,000.00	-	\$15,000.00
5328	Conservation Study & Incentives	\$3,000.00	-	\$3,000.00
	<b>Total:</b>	<b>\$86,000.00</b>	<b>\$0.00</b>	<b>\$86,000.00</b>

**UTILITIES**

5401	Telephone	\$20,000.00	-	\$20,000.00
5402	Dominion Energy	\$4,500.00	-	\$4,500.00
5403	Rocky Mountain Power/Electrical	\$45,000.00	-	\$45,000.00
5404	Culinary Water (Riverdale)	\$2,750.00	-	\$2,750.00
5405	Trash	\$2,000.00	-	\$2,000.00
	<b>Total:</b>	<b>\$74,250.00</b>	<b>\$0.00</b>	<b>\$74,250.00</b>

**SHOP - MOBILE, EQUIPMENT, SUPPLIES & EXPENSES**

5501	Fuel	\$16,000.00	\$6,000.00	\$22,000.00
5502	Oil, Grease & Filters	\$1,250.00	-	\$1,250.00
5503	Tires	\$7,500.00	-	\$7,500.00
5504	Batteries	\$300.00	-	\$300.00
5505	Equipment Repair	\$5,000.00	-	\$5,000.00
5506	Equipment Tune-Up	\$750.00	-	\$750.00
5507	Truck Repair & Registration	\$1,500.00	-	\$1,500.00
5509	Portable Equipment	\$2,500.00	\$500.00	\$3,000.00
5510	Small Hand Tools - Shop	\$2,000.00	-	\$2,000.00
5511	Small Tools - Trucks	\$2,000.00	\$500.00	\$2,500.00

**2023 TENTATIVE BUDGET**

November 9, 2022  
Board Meeting

		<u>Roy Water</u>	<u>West Haven System</u>	<u>Total</u>
5512	Equipment Rental	\$1,000.00	\$500.00	\$1,500.00
5600	Oxygen, Acetylene & Welding Rod	\$1,000.00	\$500.00	\$1,500.00
5601	Rock & Road Base	\$3,000.00	\$500.00	\$3,500.00
5602	Concrete Products	\$200.00	\$200.00	\$400.00
5603	Nuts & Bolts	\$500.00	\$100.00	\$600.00
5604	Uniforms	\$5,000.00	-	\$5,000.00
5605	Safety Equipment	\$1,000.00	-	\$1,000.00
5606	Shop Clean & Maint. Supplies	\$1,000.00	-	\$1,000.00
5608	Building Maintenance (Shop)	\$2,000.00	-	\$2,000.00
5609	Shop Improvements	\$5,000.00	-	\$5,000.00
	<b>Total:</b>	<b>\$58,500.00</b>	<b>\$8,800.00</b>	<b>\$67,300.00</b>
<b><u>UPKEEP OF GROUNDS</u></b>				
5700	Maintenance of Entire District Property (30 acres)	\$30,000.00	-	\$30,000.00
	<b>Total:</b>	<b>\$30,000.00</b>	<b>\$0.00</b>	<b>\$30,000.00</b>
<b><u>STREET REPAIRS</u></b>				
5900	Asphalt	\$2,500.00	\$1,000.00	\$3,500.00
5901	Contractor	\$25,000.00	\$3,000.00	\$28,000.00
5902	Concrete	\$2,000.00	-	\$2,000.00
5903	Roy City Cut & Patch Fees	\$3,000.00	-	\$3,000.00
5904	Dispose Concrete & Asphalt	\$1,000.00	\$1,000.00	\$2,000.00
	<b>Total:</b>	<b>\$33,500.00</b>	<b>\$5,000.00</b>	<b>\$38,500.00</b>
<b><u>PUMPHOUSE &amp; RESERVOIR</u></b>				
6000	Reservoir & Pumphouse	\$50,000.00	-	\$50,000.00
6001	Inlet Screen Repairs	\$4,000.00	1,000.00	\$5,000.00
	<b>Total:</b>	<b>\$54,000.00</b>	<b>\$1,000.00</b>	<b>\$55,000.00</b>
<b><u>PIPELINE MAINTENANCE &amp; SUPPLIES</u></b>				
6100	Pipeline Maintenance & Supplies	\$50,000.00	\$2,500.00	\$52,500.00
6101	Welding of Pipeline	\$1,000.00	-	\$1,000.00
6102	Blue Stakes	\$5,500.00	\$3,500.00	\$9,000.00
6105	Service Line Meters, Maintenance & Supplies	\$25,000.00	-	\$25,000.00
	<b>Total:</b>	<b>\$81,500.00</b>	<b>\$6,000.00</b>	<b>\$87,500.00</b>
<b><u>BOND PAYMENT</u></b>				
6200	Bond Payment	\$283,000.00	-	\$283,000.00
	<b>Total:</b>	<b>\$283,000.00</b>	<b>\$0.00</b>	<b>\$283,000.00</b>
<b><u>DEPRECIATION</u></b>				
6204	Depreciation	\$100,000.00	-	\$100,000.00
	<b>Total:</b>	<b>\$100,000.00</b>	<b>\$0.00</b>	<b>\$100,000.00</b>
<b><u>O. &amp; M. CAPITAL IMPROVEMENT EXPENSES</u></b>				

**2023 TENTATIVE BUDGET**

November 9, 2022  
Board Meeting

	<u>Roy Water</u>	<u>West Haven System</u>	<u>Total</u>
8219-23 Capital Improvement Plan #1 (2023) Replace Mainline Valves	\$40,000.00	-	\$40,000.00
8229-23 Capital Improvement Plan #2 (2023) Connect Unconnected Lots	\$48,000.00	-	\$48,000.00
8283 Capital Improvement Plan #3 (2023) Secondary Water Valve Replacement Project - Various Locations	\$216,000.00	-	\$216,000.00
8284 Capital Improvement Plan #4 (2023) Secondary Water Line Replacement Project -5500 South Between 2300 West and 2350 West	\$31,000.00	-	\$31,000.00
8285 Capital Improvement Plan #5 (2023) Secondary Water Line Replacement Project -3725 South Between 1900 West and 2150 West	\$383,000.00	-	\$383,000.00
8286 Capital Improvement Plan #6 (2023) Secondary Water Line Replacement Project - 2275 West Between 6000 South and 6100 South	\$110,000.00	-	\$110,000.00
8287 Capital Improvement Plan #7 (2023) Replace Transmission Lines Under I-15 and Freeway Park Drive	\$1,500,000.00	-	\$1,500,000.00
8282-23 Meter Retrofit Phase 4 DWRe Project RM0006	\$7,143,000.00	-	\$7,143,000.00
<b>Total:</b>	<b>\$9,471,000.00</b>	<b>\$0.00</b>	<b>\$9,471,000.00</b>

**NEW ASSETS**

8305-23 Truck Upgrades 2023	\$360,000.00	-	\$360,000.00
8326-23 2023 CAT 914	\$180,000.00	-	\$180,000.00
8333 2023 Mini Excavator	\$15,000.00	-	\$15,000.00
8334 20' Utility Trailer	\$20,000.00	-	\$20,000.00
8335 Asphalt Saw	\$10,000.00	-	\$10,000.00
8336 Security Cameras	\$40,000.00	-	\$40,000.00
<b>Total:</b>	<b>\$625,000.00</b>	<b>\$0.00</b>	<b>\$625,000.00</b>

**ADMINISTRATIVE ASSESSMENT**

8500	Administrative Assessment Fee (5%)	-	\$11,500.00	\$11,500.00
<b>Total:</b>		<b>\$0.00</b>	<b>\$11,500.00</b>	<b>\$11,500.00</b>

<b>TOTAL ESTIMATED EXPENSE:</b>	<b>\$12,320,850.00</b>	<b>\$241,500.00</b>	<b>\$12,562,350.00</b>
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<b><u>TOTAL INCOME &amp; EXPENSES</u></b>				
	<b>ESTIMATED INCOME:</b>	<b>\$10,486,000.00</b>	<b>\$241,500.00</b>	<b>\$10,727,500.00</b>
3700	<b>APPROPRIATION FROM NET ASSETS</b>	<b>\$1,834,850.00</b>	<b>\$0.00</b>	<b>\$1,834,850.00</b>
	<b>TOTAL:</b>	<b>\$12,320,850.00</b>	<b>\$241,500.00</b>	<b>\$12,562,350.00</b>
	<b>ESTIMATED EXPENSE:</b>	<b>\$12,320,850.00</b>	<b>\$241,500.00</b>	<b>\$12,562,350.00</b>

**2023 TENTATIVE BUDGET**

November 9, 2022  
Board Meeting

		<u>Roy Water</u>	<u>West Haven System</u>	<u>Total</u>
<b><u>IMPACT FEE FUND</u></b>				
<b><u>CAPITAL FACILITIES INCOME</u></b>				
3027	Interest Income	\$350.00		
3029	Impact Fees	\$0.00		
3035	Reserve Funds (Impact Fee)	\$123,917.99		
		<hr/>		
		<b>ESTIMATED INCOME:</b>	<b>\$124,267.99</b>	

**CAPITAL FACILITIES EXPENSES**

8016	ENG & Contingency 0001-1 to 0015-1	\$8,208.06		
0004	2012 Capital Improvement Prj. #1 (2007 CFP #3 & 2005 CFP #4) 3500 W. from 5700 S. to 6000 S.	\$4,533.00		
0005	2012 Capital Improvement Prj. #2 (2007 CFP #4 & 2005 CFP #5) 3500 W. from 5500 S. to 5600 S.	\$5,214.00		
0003	2012 Capital Improvement Prj. #3 (2007 CFP #2 & 2005 CFP #3) 3500 W. from 4800 S. to 5200 S.	\$29,850.00		
0010	2012 Capital Improvement Prj. #4 (2007 CFP #8 & 2005 CFP #10) 3500 W. from Midland Dr. to Layton Canal	\$1,233.00		
0013	2012 Capital Improvement Prj. #5 (2007 CFP #9 & 2005 CFP #13) 4300 W. from 4800 S. to 4650 S.	\$18,150.00		
0006	2012 Capital Improvement Prj. #6 (2007 CFP #5 & 2005 CFP #6) 4000 S. from Midland Dr. to 2800 W.	\$17,425.00		
0014	2012 Capital Improvement Prj. #7 (2007 CFP #10 & 2005 CFP #14) Along Rail Road ROW from 4800 S. to 4000 S.	\$20,934.93		
0017	2012 Capital Improvement Prj. #8 Along Rail Road ROW from 4000 S. to 3675 S. Then W. to Midland Dr.	\$18,720.00		
		<hr/>		
		<b>ESTIMATED EXPENSE:</b>	<b>\$124,267.99</b>	

<b><u>TOTAL INCOME &amp; EXPENSES</u></b>	
<b>ESTIMATED INCOME:</b>	<b>\$124,267.99</b>
<b>ESTIMATED EXPENSE:</b>	<b>\$124,267.99</b>

**2023 RWCD TENTATIVE BUDGET COMPARISON**

11/4/2022

November 9, 2022  
Board Meeting

**O & M REVENUE**

**TAXES COLLECTED BY WEBER COUNTY**

	<u>2023 Estimated</u>	<u>2022 Estimated</u>	<u>2021 Actual</u>
3030 Ad Valorem Tax	\$128,000.00	\$127,500.00	\$134,608.49
3036 Registered Vehicle F.I.L.	\$14,000.00	\$13,500.00	\$12,184.63
3037 Delinquent Ad Valorem Tax	\$3,000.00	\$2,500.00	\$1,510.55
<b>Total:</b>	<b>\$145,000.00</b>	<b>\$143,500.00</b>	<b>\$148,303.67</b>

**ASSESSMENTS & SPECIAL ASSESSMENT**

	<u>2023 Estimated</u>	<u>2022 Estimated</u>	<u>2021 Actual</u>
3034 Delinquent Assessments	\$30,000.00	\$30,000.00	\$25,428.10
3035 Direct Charges/Assessments	\$2,514,000.00	\$2,285,000.00	\$2,346,467.69
3040 Non-Taxable Entity Assessments	\$71,000.00	\$65,000.00	\$73,613.58
3045 Homeowners 1 Yr Only Assmnt.	\$1,000.00	\$1,000.00	\$16.77
3050 Homeowners Yearly Assessments	\$6,000.00	\$5,000.00	\$7,720.04
<b>Total:</b>	<b>\$2,622,000.00</b>	<b>\$2,386,000.00</b>	<b>\$2,453,246.18</b>

**OTHER INCOME**

	<u>2023 Estimated</u>	<u>2022 Estimated</u>	<u>2021 Actual</u>
3016 Cell Tower Leases	\$57,000.00	\$56,000.00	\$55,020.94
3020 Surplus Water Sales/Wheeling Ch	\$13,000.00	\$13,000.00	\$1,156.92
3028 Interest - Checking & Investments	\$25,000.00	\$20,000.00	\$18,580.66
3150 Misc. Income	\$1,000.00	\$1,000.00	\$360.00
3156-21 Sale of 2021 Vehicles	-	-	\$375,500.00
3156-22 Sale of 2022 Vehicles	-	\$290,000.00	-
3156-23 Sale of 2023 Vehicles	\$300,000.00	-	-
3158-20 Sale of 2020 CAT 938M	-	-	\$178,500.00
3158-21 Sale of 2021 CAT 938M	-	\$175,000.00	-
3158-22 Sale of 2022 CAT 938M	\$180,000.00	-	-
3601-19 WaterSmart Grant R18AP00263	-	-	\$4,000.00
3601-20 WaterSmart Grant R21AP10016	-	-	\$75,000.00
3601-21 WaterSmart Grant	-	\$75,000.00	-
3601-23 DWRe Grant	\$5,000,000.00	-	-
3602-23 DWRe Bond	\$1,821,500.00	-	-
3603-23 DWRe Escrow	\$321,500.00	-	-
3700 APPROPRIATION FROM NET ASSETS	\$1,834,850.00	\$1,802,062.00	\$0.00
<b>Total:</b>	<b>\$9,553,850.00</b>	<b>\$2,432,062.00</b>	<b>\$708,118.52</b>

	<u>2023 Estimated</u>	<u>2022 Estimated</u>	<u>2021 Actual</u>
<b>TOTAL INCOME:</b>	<b>\$12,320,850.00</b>	<b>\$4,961,562.00</b>	<b>\$3,309,668.37</b>
<b>PERCENT DIFFERENCE FROM PREVIOUS YEAR:</b>	<b>148.3%</b>	<b>49.9%</b>	

**O. & M. - GENERAL EXPENSE**

2023 RWCD TENTATIVE BUDGET COMPARISON

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<b><u>TRAVEL EXPENSE &amp; DIRECTORS FEES</u></b>		<b><u>2023 Estimated</u></b>	<b><u>2022 Estimated</u></b>	<b><u>2021 Actual</u></b>
4900	Trustees Fees & Extra Meetings	\$20,000.00	\$20,000.00	\$18,167.40
<b>Total:</b>		<b>\$20,000.00</b>	<b>\$20,000.00</b>	<b>\$18,167.40</b>

<b><u>PROFESSIONAL &amp; TECHNICAL SERVICES</u></b>		<b><u>2023 Estimated</u></b>	<b><u>2022 Estimated</u></b>	<b><u>2021 Actual</u></b>
4906	Engineering	\$50,000.00	\$50,000.00	\$29,281.42
4907	Audit/CPA	\$18,000.00	\$18,000.00	\$14,193.00
4908	Attorney	\$30,000.00	\$30,000.00	\$7,522.10
4909	Advertising, Publishing & Postage	\$30,000.00	\$30,000.00	\$14,109.42
4910	Other Professional Services	\$0.00	\$0.00	\$0.00
<b>Total:</b>		<b>\$128,000.00</b>	<b>\$128,000.00</b>	<b>\$65,105.94</b>

<b><u>INSURANCE</u></b>		<b><u>2023 Estimated</u></b>	<b><u>2022 Estimated</u></b>	<b><u>2021 Actual</u></b>
4911	Liability	\$36,000.00	\$36,000.00	\$23,489.01
4912	Workers Compensation	\$10,000.00	\$10,000.00	\$1,382.11
4913	Bonding	\$1,000.00	\$1,000.00	\$0.00
<b>Total:</b>		<b>\$47,000.00</b>	<b>\$47,000.00</b>	<b>\$24,871.12</b>

<b><u>ASSESSMENTS</u></b>		<b><u>2023 Estimated</u></b>	<b><u>2022 Estimated</u></b>	<b><u>2021 Actual</u></b>
5100	Roy City Water Rental	\$26,000.00	\$25,000.00	\$22,837.50
5101	D & W Water Assessment	\$410,000.00	\$379,000.00	\$378,125.00
5103	Other Water Rental	\$17,000.00	\$15,000.00	\$9,175.00
5105	Weber Basin Lease Contract	\$46,000.00	\$44,000.00	\$41,378.00
5106	Wilson Water Assessment	\$2,500.00	\$2,000.00	\$1,722.00
<b>Total:</b>		<b>\$501,500.00</b>	<b>\$465,000.00</b>	<b>\$453,237.50</b>

<b><u>ASSOCIATION DUES/WATER CONSERVATION &amp; EDUCATION</u></b>		<b><u>2023 Estimated</u></b>	<b><u>2022 Estimated</u></b>	<b><u>2021 Actual</u></b>
5200	Utah Water Users Association	\$1,500.00	\$1,500.00	\$775.00
5201	Association of Special Districts	\$3,000.00	\$3,000.00	\$2,050.00
5202	Water Education	\$1,000.00	\$1,000.00	\$0.00
5204	American Water Works	\$700.00	\$700.00	\$242.00
5205-1	Irrigation Caucus	\$400.00	\$400.00	\$400.00
5206-1	Water Conservation (Other)	\$500.00	\$500.00	-\$500.00
<b>Total:</b>		<b>\$7,100.00</b>	<b>\$7,100.00</b>	<b>\$2,967.00</b>

<b><u>WORKSHOPS &amp; TRAINING</u></b>		<b><u>2023 Estimated</u></b>	<b><u>2022 Estimated</u></b>	<b><u>2021 Actual</u></b>
5300	Director Workshops/Training	\$22,000.00	\$22,000.00	\$3,867.50
5301	Employee Workshops/Training	\$26,000.00	\$26,000.00	\$9,083.60
<b>Total:</b>		<b>\$48,000.00</b>	<b>\$48,000.00</b>	<b>\$12,951.10</b>

<b><u>SALARIES &amp; BENEFITS</u></b>		<b><u>2023 Estimated</u></b>	<b><u>2022 Estimated</u></b>	<b><u>2021 Actual</u></b>
5302	Medicare	\$9,500.00	\$8,500.00	\$7,999.73

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5303-0,6	Gross Wages	\$487,000.00	\$443,000.00	\$433,693.80
5303-1,4	Overtime	\$34,500.00	\$31,500.00	\$17,496.04
5303-5,7	Double Time	\$2,250.00	\$2,000.00	\$663.23
5303-10	Sick Leave Pay	\$38,500.00	\$29,000.00	\$11,001.48
5303-11	Annual Leave Pay	\$45,250.00	\$32,500.00	\$40,121.97
5303-12,15	Pager Time	\$10,500.00	\$9,500.00	\$6,689.74
5303-13	Compensation Time	\$2,000.00	\$1,750.00	\$0.00
5303-14	Holiday Pay	\$27,500.00	\$25,000.00	\$23,317.12
5304	FICA	\$41,250.00	\$37,500.00	\$34,205.64
5305	Federal Tax	\$0.00	\$0.00	\$0.00
5306	State Tax	\$0.00	\$0.00	\$0.00
5307	Retirement	\$90,250.00	\$82,000.00	\$83,959.73
5308	Health Insurance	\$132,000.00	\$120,000.00	\$123,024.71
5309	401K	\$28,500.00	\$26,000.00	\$25,915.45
5311	Unemployment Comp.	\$3,250.00	\$3,000.00	\$485.39
5312	Disability	\$3,250.00	\$3,000.00	\$2,828.68
	<b>Total:</b>	<b>\$955,500.00</b>	<b>\$854,250.00</b>	<b>\$811,402.71</b>

**OFFICE EXPENSES**

		<b><u>2023 Estimated</u></b>	<b><u>2022 Estimated</u></b>	<b><u>2021 Actual</u></b>
5315	General Office Expenses	\$20,000.00	\$20,000.00	\$10,334.99
5316	Office Travel Reimbursement	\$1,500.00	\$1,500.00	\$960.16
5317	Managers Expense	\$1,500.00	\$1,500.00	\$525.26
5318	Air Conditioning & Heating	\$2,000.00	\$2,000.00	\$739.00
5319	Computer Tech. Repair & Agrmnts	\$20,000.00	\$18,000.00	\$17,217.25
5321	Adjustments & Refunds	\$500.00	\$500.00	\$0.00
5323	Computer Hardware & Software	\$18,000.00	\$15,000.00	\$13,442.85
5324	Radio Maintenance	\$1,000.00	\$1,000.00	\$0.00
5325	Bldg Cleaning & Maint. Supplies	\$500.00	\$500.00	\$180.21
5326	Janitorial Services	\$3,000.00	\$3,000.00	\$2,537.00
5327	Office Improvements	\$15,000.00	\$5,000.00	\$2,175.00
5328	Conservation Study & Incentives	\$3,000.00	\$3,000.00	\$0.00
	<b>Total:</b>	<b>\$86,000.00</b>	<b>\$71,000.00</b>	<b>\$48,111.72</b>

**UTILITIES**

		<b><u>2023 Estimated</u></b>	<b><u>2022 Estimated</u></b>	<b><u>2021 Actual</u></b>
5401	Telephone	\$20,000.00	\$20,000.00	\$14,270.64
5402	Dominion Energy	\$4,500.00	\$4,500.00	\$2,983.49
5403	Rocky Mountain Power/Electrical	\$45,000.00	\$65,000.00	\$34,593.26
5404	Culinary Water (Riverdale)	\$2,750.00	\$2,500.00	\$1,705.93
5405	Trash	\$2,000.00	\$1,750.00	\$1,359.90

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		<b>Total:</b>	<b>\$74,250.00</b>	<b>\$93,750.00</b>	<b>\$54,913.22</b>
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<b><u>SHOP - MOBILE EQUIPMENT SUPPLIES &amp; REPAIRS</u></b>		<b><u>2023 Estimated</u></b>	<b><u>2022 Estimated</u></b>	<b><u>2021 Actual</u></b>	
5501	Fuel	\$16,000.00	\$10,000.00	\$14,056.15	
5502	Oil, Grease & Filters	\$1,250.00	\$1,250.00	\$854.65	
5503	Tires	\$7,500.00	\$2,000.00	\$0.00	
5504	Batteries	\$300.00	\$300.00	\$296.76	
5505	Equipment Repair	\$5,000.00	\$5,000.00	\$1,565.23	
5506	Equipment Tune-Up	\$750.00	\$750.00	\$646.36	
5507	Truck Repair & Registration	\$1,500.00	\$1,500.00	\$91.36	
5509	Portable Equipment	\$2,500.00	\$2,500.00	\$6,741.75	
5510	Small Hand Tools - Shop	\$2,000.00	\$2,000.00	\$1,642.36	
5511	Small Tools - Trucks	\$2,000.00	\$2,000.00	\$435.53	
5512	Equipment Rental	\$1,000.00	\$1,000.00	\$215.98	
5600	Oxygen, Acetylene & Welding Rod	\$1,000.00	\$1,000.00	\$557.00	
5601	Rock & Road Base	\$3,000.00	\$3,000.00	\$1,556.79	
5602	Concrete Products	\$200.00	\$200.00	\$172.59	
5603	Nuts & Bolts	\$500.00	\$500.00	\$0.00	
5604	Uniforms	\$5,000.00	\$2,000.00	\$1,537.14	
5605	Safety Equipment	\$1,000.00	\$1,000.00	\$264.40	
5606	Shop Clean & Maint. Supplies	\$1,000.00	\$1,000.00	\$418.44	
5608	Building Maintenance (Shop)	\$2,000.00	\$2,000.00	\$2,279.50	
5609	Shop Improvements	\$5,000.00	\$5,000.00	\$4,316.55	
<b>Total:</b>		<b>\$58,500.00</b>	<b>\$44,000.00</b>	<b>\$37,648.54</b>	
<hr/>					
<b><u>UPKEEP OF GROUNDS</u></b>		<b><u>2023 Estimated</u></b>	<b><u>2022 Estimated</u></b>	<b><u>2021 Actual</u></b>	
5700	Maintenance of Entire District Property (30 acres)	\$30,000.00	\$30,000.00	\$26,206.06	
<b>Total:</b>		<b>\$30,000.00</b>	<b>\$30,000.00</b>	<b>\$26,206.06</b>	
<hr/>					
<b><u>STREET REPAIRS</u></b>		<b><u>2023 Estimated</u></b>	<b><u>2022 Estimated</u></b>	<b><u>2021 Actual</u></b>	
5900	Asphalt	\$2,500.00	\$2,500.00	\$0.00	
5901	Contractor	\$25,000.00	\$25,000.00	\$1,735.00	
5902	Concrete	\$2,000.00	\$2,000.00	\$246.00	
5903	Roy City Cut & Patch Fees	\$3,000.00	\$3,000.00	\$738.00	
5904	Dispose Concrete & Asphalt	\$1,000.00	\$1,000.00	\$0.00	
<b>Total:</b>		<b>\$33,500.00</b>	<b>\$33,500.00</b>	<b>\$2,719.00</b>	
<hr/>					
<b><u>PUMPHOUSE &amp; RESERVOIR</u></b>		<b><u>2023 Estimated</u></b>	<b><u>2022 Estimated</u></b>	<b><u>2021 Actual</u></b>	
6000	Reservoir & Pumphouse	\$50,000.00	\$50,000.00	\$33,121.98	
6001	Inlet Screen Repairs	\$4,000.00	\$4,000.00	\$419.93	
<b>Total:</b>		<b>\$54,000.00</b>	<b>\$54,000.00</b>	<b>\$33,541.91</b>	



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<b><u>PIPELINE MAINTENANCE &amp; SUPPLIES</u></b>		<b><u>2023 Estimated</u></b>	<b><u>2022 Estimated</u></b>	<b><u>2021 Actual</u></b>
6100	Pipeline Maintenance & Supplies	\$50,000.00	\$25,000.00	\$19,823.47
6101	Welding of Pipeline	\$1,000.00	\$1,000.00	\$0.00
6102	Blue Stakes	\$5,500.00	\$5,500.00	-\$2,053.96
6105	Service Line Meters, Maintenance & Supplies	\$25,000.00	-	-
<b>Total:</b>		<b>\$81,500.00</b>	<b>\$31,500.00</b>	<b>\$17,769.51</b>

<b><u>BOND PAYMENT</u></b>		<b><u>2023 Estimated</u></b>	<b><u>2022 Estimated</u></b>	<b><u>2021 Actual</u></b>
6200	Bond Payment	\$283,000.00	\$0.00	\$0.00
<b>Total:</b>		<b>\$283,000.00</b>	<b>\$0.00</b>	<b>\$0.00</b>

<b><u>DEPRECIATION</u></b>		<b><u>2023 Estimated</u></b>	<b><u>2022 Estimated</u></b>	<b><u>2021 Actual</u></b>
6204	Depreciation	\$100,000.00	\$100,000.00	\$0.00
<b>Total:</b>		<b>\$100,000.00</b>	<b>\$100,000.00</b>	<b>\$0.00</b>

<b><u>O. &amp; M. CAPITAL IMPROVEMENT EXPENSES</u></b>		<b><u>Capital Improvement Projects</u></b>		
8219-21	Capital Improvement Plan #1 (2021) Replace Mainline Valves	-	-	\$39,410.97
8219-22	Capital Improvement Plan #1 (2022) Replace Mainline Valves	-	\$40,000.00	-
8219-23	Capital Improvement Plan #1 (2023) Replace Mainline Valves	\$40,000.00	-	-
8229-21	Capital Improvement Plan #2 (2021) Connect Unconnected Lots	-	-	\$25,934.09
8229-22	Capital Improvement Plan #2 (2022) Connect Unconnected Lots	-	\$48,000.00	-
8229-23	Capital Improvement Plan #2 (2023) Connect Unconnected Lots	\$48,000.00	-	-
8262-19	WaterSmart Grant R18AP00263	-	-	\$352.71
8262-20	WaterSmart Grant R21AP10016	-	-	\$140,196.79
8262-21	WaterSmart Grant R22AP00053 Capital Improvement Plan #4 (2021)	-	\$287,500.00	\$46,003.69
8272	Water Line Replacement 6050 South and 2125 West Between 2200 West and 6075 South Capital Improvement Plan #5 (2021)	-	-	\$70,106.43
8273	Water Line Replacement - 5075 South Between 1825 West and 1900 West Capital Improvement Plan #6 (2021)	-	-	\$77,745.28
8274	Service Lateral Replacement - 5175 South Between 2500 West and 2675 West Capital Improvement Plan #7 (2021)	-	-	\$27,414.93
8275	Water Line Replacement - 4850 South and 2575 West Between 4900 South and 2675 West Capital Improvement Plan #8 (2021)	-	-	\$103,166.75
8276	Water Line Replacement - 2100 West and 2150 West and 5125 South Between 5200 South and 2150 West (Roy City CDBG) Capital Improvement Plan #9 (2021)	-	-	\$98,284.86
8277	Water Line Replacement - 4700 South Between 1900 West and 2100 West (Roy City CDBG) Capital Improvement Plan #10 (2021)	-	-	\$158,545.78
8278	Seal South Reservoir Sidewall Joints Capital Improvement Plan #4 (2022)	-	-	\$11,099.44
8279	Secondary Water Line Replacement Project - 2600 West and 2625 West Between 5800 South and 5950 South	-	\$385,446.00	-

**2023 RWCD TENTATIVE BUDGET COMPARISON**

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8280	Capital Improvement Plan #5 (2022) Secondary Water Line Replacement Project -1950 West Between 5100 South and 5200 South Capital Improvement Plan #6 (2022)	-	\$102,787.00	-
8281	Connect Existing Water Line - 4250 South and 2350 South and 6075 South and 2960 West	-	\$32,729.00	-
8282-22	Meter Retrofit DWRe Grant Capital Improvement Plan #3 (2023)	-	\$1,500,000.00	-
8283	Secondary Water Valve Replacement Project - Various Locations Capital Improvement Plan #4 (2023)	\$216,000.00	-	-
8284	Secondary Water Line Replacement Project -5500 South Between 2300 West and 2350 West Capital Improvement Plan #5 (2023)	\$31,000.00	-	-
8285	Secondary Water Line Replacement Project -3725 South Between 1900 West and 2150 West Capital Improvement Plan #6 (2023)	\$383,000.00	-	-
8286	Secondary Water Line Replacement Project - 2275 West Between 6000 South and 6100 South Capital Improvement Plan #7 (2023)	\$110,000.00	-	-
8287	Replace Transmission Lines Under I-15 and Freeway Park Drive	\$1,500,000.00	-	-
8282-23	Meter Retrofit Phase 4 DWRe Project RM0006	\$7,143,000.00	-	-
	<b>Total:</b>	<b>\$9,471,000.00</b>	<b>\$2,396,462.00</b>	<b>\$798,261.72</b>

**NEW ASSETS**

	<b><u>2023 Estimated</u></b>	<b><u>2022 Estimated</u></b>	<b><u>2021 Actual</u></b>
8305-21 Truck Upgrades 2021	-	-	\$288,770.69
8305-22 Truck Upgrades 2022	-	\$306,000.00	-
8305-23 Truck Upgrades 2023	\$360,000.00	-	-
8326-20 2020 CAT 938M	-	-	\$178,450.00
8326-21 2021 CAT 938M	-	\$190,000.00	-
8326-23 2023 CAT 914	\$180,000.00	-	-
8331 Pumphouse and Office Solar Arrays	-	-	\$114,335.00
8332 2022 Colorado	-	\$42,000.00	-
8333 2023 Mini Excavator	\$15,000.00	-	-
8334 20' Utility Trailer	\$20,000.00	-	-
8335 Asphalt Saw	\$10,000.00	-	-
8336 Security Cameras	\$40,000.00	-	-
	<b>Total:</b>	<b>\$625,000.00</b>	<b>\$538,000.00</b>
		<b>\$581,555.69</b>	

<b>TOTAL EXPENSE:</b>	<b><u>2023 Estimated</u></b> \$12,603,850.00	<b><u>2022 Estimated</u></b> \$4,961,562.00	<b><u>2021 Actual</u></b> \$2,989,430.14
<b>PERCENT DIFFERENCE FROM PREVIOUS YEAR:</b>	<b>154.0%</b>	<b>66.0%</b>	

<b><u>TOTAL INCOME &amp; EXPENSES</u></b>	<b><u>2023 Estimated</u></b>	<b><u>2022 Estimated</u></b>	<b><u>2021 Actual</u></b>
<b>INCOME:</b>	\$12,320,850.00	\$4,961,562.00	\$3,309,668.37
<b>EXPENSE:</b>	\$12,320,850.00	\$4,961,562.00	\$2,989,430.14

**2023 RWCD TENTATIVE BUDGET COMPARISON**

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**IMPACT FEE FUND**

<b><u>CAPITAL FACILITIES INCOME</u></b>		<b><u>2023 Estimated</u></b>	<b><u>2022 Estimated</u></b>	<b><u>2020 Actual</u></b>
3027	Interest Income	\$350.00	\$350.00	\$3,343.93
3029	Impact Fees	\$0.00	\$0.00	\$0.00
3035	Reserve Funds (Impact Fee)	\$123,917.99	\$123,120.34	\$0.00
<b><i>INCOME:</i></b>		<b>\$124,267.99</b>	<b>\$123,470.34</b>	<b>\$3,343.93</b>

<b><u>CAPITAL FACILITIES EXPENSES</u></b>		<b><u>2023 Estimated</u></b>	<b><u>2022 Estimated</u></b>	<b><u>2020 Actual</u></b>
8016	ENG & Contingency 0001-1 to 0015-1	\$8,208.06	\$7,410.41	\$0.00
0004	2012 Capital Improvement Prj. #1 (2007 CFP #3 & 2005 CFP #4) 3500 W. from 5700 S. to 6000 S.	\$4,533.00	\$4,533.00	\$0.00
0005	2012 Capital Improvement Prj. #2 (2007 CFP #4 & 2005 CFP #5) 3500 W. from 5500 S. to 5600 S.	\$5,214.00	\$5,214.00	\$0.00
0003	2012 Capital Improvement Prj. #3 (2007 CFP #2 & 2005 CFP #3) 3500 W. from 4800 S. to 5200 S.	\$29,850.00	\$29,850.00	\$0.00
0010	2012 Capital Improvement Prj. #4 (2007 CFP #8 & 2005 CFP #10) 3500 W. from Midland Dr. to Layton Canal	\$1,233.00	\$1,233.00	\$0.00
0013	2012 Capital Improvement Prj. #5 (2007 CFP #9 & 2005 CFP #13) 4300 W. from 4800 S. to 4650 S.	\$18,150.00	\$18,150.00	\$0.00
0006	2012 Capital Improvement Prj. #6 (2007 CFP #5 & 2005 CFP #6) 4000 S. from Midland Dr. to 2800 W.	\$17,425.00	\$17,425.00	\$0.00
0014	2012 Capital Improvement Prj. #7 (2007 CFP #10 & 2005 CFP #14) Along Rail Road ROW from 4800 S. to 4000 S.	\$20,934.93	\$20,934.93	\$0.00
0017	2012 Capital Improvement Prj. #8 Along Rail Road ROW from 4000 S. to 3675 S. Then W. to Midland Dr.	\$18,720.00	\$18,720.00	\$0.00
<b><i>EXPENSE:</i></b>		<b>\$124,267.99</b>	<b>\$123,470.34</b>	<b>\$0.00</b>

<b><u>TOTAL INCOME &amp; EXPENSES</u></b>		<b><u>2023 Estimated</u></b>	<b><u>2022 Estimated</u></b>	<b><u>2020 Actual</u></b>
<b>INCOME:</b>		<b>\$124,267.99</b>	<b>\$123,470.34</b>	<b>\$3,343.93</b>
<b>RESERVE FUNDS:</b>				
<b>EXPENSE:</b>		<b>\$124,267.99</b>	<b>\$123,470.34</b>	<b>\$0.00</b>
<b>PERCENT DIFFERENCE FROM PREVIOUS YEAR:</b>		<b>0.6%</b>	<b>1.9%</b>	

2023 WEST HAVEN TENTATIVE BUDGET

11/4/2022

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**O & M REVENUE**

<b><u>OTHER INCOME</u></b>		<b><u>2023 Estimated</u></b>	<b><u>2022 Estimated</u></b>	<b><u>2021 Actual</u></b>
3300	Weber Basin - West Haven System	\$230,000.00	\$230,000.00	\$233,130.31
3301	Weber Basin Administrative Fee	\$11,500.00	\$11,500.00	\$0.00
<b>Total:</b>		<b>\$241,500.00</b>	<b>\$241,500.00</b>	<b>\$233,130.31</b>

	<b><u>2023 Estimated</u></b>	<b><u>2022 Estimated</u></b>	<b><u>2021 Actual</u></b>
<b>TOTAL INCOME:</b>	<b>\$241,500.00</b>	<b>\$241,500.00</b>	<b>\$233,130.31</b>
<b>PERCENT DIFFERENCE FROM PREVIOUS YEAR:</b>	<b>0.0%</b>	<b>3.6%</b>	

**O. & M. - GENERAL EXPENSE**

<b><u>PROFESSIONAL &amp; TECHNICAL SERVICES</u></b>		<b><u>2023 Estimated</u></b>	<b><u>2022 Estimated</u></b>	<b><u>2021 Actual</u></b>
4903	Scada	\$1,500.00	\$1,500.00	\$0.00
4906	Engineering	\$2,500.00	\$2,500.00	\$0.00
4907	Audit/CPA	\$2,000.00	\$2,000.00	\$1,400.00
4908	Attorney	\$3,000.00	\$3,000.00	\$0.00
4909	Advertising, Publishing & Postage	\$1,000.00	\$1,000.00	\$0.00
<b>Total:</b>		<b>\$10,000.00</b>	<b>\$10,000.00</b>	<b>\$1,400.00</b>

<b><u>INSURANCE</u></b>		<b><u>2023 Estimated</u></b>	<b><u>2022 Estimated</u></b>	<b><u>2021 Actual</u></b>
4911	Liability	\$2,000.00	\$2,000.00	\$0.00
4912	Workers Compensation	\$2,500.00	\$2,500.00	\$676.15
<b>Total:</b>		<b>\$4,500.00</b>	<b>\$4,500.00</b>	<b>\$676.15</b>

<b><u>SALARIES &amp; BENEFITS</u></b>		<b><u>2023 Estimated</u></b>	<b><u>2022 Estimated</u></b>	<b><u>2021 Actual</u></b>
5302	Medicare	\$1,800.00	\$1,800.00	\$1,103.42
5303-0,6	Gross Wages	\$123,750.00	\$123,750.00	\$60,517.40
5303-1,4	Overtime	\$8,250.00	\$8,250.00	\$7,222.78
5303-5,7	Double Time	\$1,550.00	\$1,550.00	\$385.71
5303-12,15	Pager Time	\$6,250.00	\$6,250.00	\$5,389.47
5304	FICA	\$7,250.00	\$7,250.00	\$4,718.04
5307	Retirement	\$17,000.00	\$17,000.00	\$11,580.72
5308	Health Insurance	\$23,000.00	\$23,000.00	\$16,969.02
5309	401K	\$5,250.00	\$5,250.00	\$3,574.56
5311	Unemployment Comp.	\$100.00	\$100.00	\$66.95
5312	Disability	\$500.00	\$500.00	\$217.62
<b>Total:</b>		<b>\$194,700.00</b>	<b>\$194,700.00</b>	<b>\$111,745.69</b>

<b><u>SHOP - MOBILE EQUIPMENT SUPPLIES &amp; REPAIRS</u></b>		<b><u>2023 Estimated</u></b>	<b><u>2022 Estimated</u></b>	<b><u>2021 Actual</u></b>
5501	Fuel	\$6,000.00	\$6,000.00	\$1,447.04
5509	Portable Equipment	\$500.00	\$500.00	\$0.00
5511	Small Tools - Trucks	\$500.00	\$500.00	\$0.00
5512	Equipment Rental	\$500.00	\$500.00	\$0.00

**2023 WEST HAVEN TENTATIVE BUDGET**

11/4/2022

November 9, 2022  
Board Meeting

5600	Oxygen, Acetylene & Welding Rod	\$500.00	\$500.00	\$0.00
5601	Rock & Road Base	\$500.00	\$500.00	\$0.00
5602	Concrete Products	\$200.00	\$200.00	\$0.00
5603	Nuts & Bolts	\$100.00	\$100.00	\$0.00
<b>Total:</b>		<b>\$8,800.00</b>	<b>\$8,800.00</b>	<b>\$1,447.04</b>

**STREET REPAIRS**

		<u>2023 Estimated</u>	<u>2022 Estimated</u>	<u>2021 Actual</u>
5900	Asphalt	\$1,000.00	\$1,000.00	\$0.00
5901	Contractor	\$3,000.00	\$3,000.00	\$0.00
5902	Concrete	-	-	-
5904	Dispose Concrete & Asphalt	\$1,000.00	\$1,000.00	\$0.00
<b>Total:</b>		<b>\$5,000.00</b>	<b>\$5,000.00</b>	<b>\$0.00</b>

**PUMPHOUSE & RESERVOIR**

		<u>2023 Estimated</u>	<u>2022 Estimated</u>	<u>2021 Actual</u>
6000	Reservoir & Pumphouse	-	-	-
6001	Inlet Screen Repairs	\$1,000.00	\$1,000.00	\$0.00
<b>Total:</b>		<b>\$1,000.00</b>	<b>\$1,000.00</b>	<b>\$0.00</b>

**PIPELINE MAINTENANCE & SUPPLIES**

		<u>2023 Estimated</u>	<u>2022 Estimated</u>	<u>2021 Actual</u>
6100	Pipeline Maintenance & Supplies	\$2,500.00	\$2,500.00	\$0.00
6101	Welding of Pipeline	-	-	-
6102	Blue Stakes	\$3,500.00	\$3,500.00	\$2,053.96
<b>Total:</b>		<b>\$6,000.00</b>	<b>\$6,000.00</b>	<b>\$2,053.96</b>

	<u>2023 Estimated</u>	<u>2022 Estimated</u>	<u>2021 Actual</u>
<b>TOTAL EXPENSE:</b>	<b>\$241,500.00</b>	<b>\$241,500.00</b>	<b>\$117,322.84</b>
<b>PERCENT DIFFERENCE FROM PREVIOUS YEAR:</b>	<b>0.0%</b>	<b>105.8%</b>	

<u>TOTAL INCOME &amp; EXPENSES</u>	<u>2023 Estimated</u>	<u>2022 Estimated</u>	<u>2021 Actual</u>
<b>INCOME:</b>	<b>\$241,500.00</b>	<b>\$241,500.00</b>	<b>\$233,130.31</b>
<b>EXPENSE:</b>	<b>\$241,500.00</b>	<b>\$241,500.00</b>	<b>\$117,322.84</b>

# MEMORANDUM

TO: Board of Trustees

FROM: Rodney Banks, Manager

DATE: November 4, 2022

SUBJECT: **IV.B. Consideration of Public Hearing Date for 2023 Budget**

---

Utah Code Annotated 17B-1-609 and the District's Fiscal Policy Section 8.4 requires that the District's board of trustees establish the time and place of a public hearing to consider the adoption of the final budget.

A suggested motion would be, "I move that we hold a public hearing on December 14, 2022, at 6:00 p.m. at the District's office for the purpose of adopting the 2023 Final Budget."

# MEMORANDUM

TO: Board of Trustees

FROM: Rodney Banks, Manager

DATE: November 4, 2022

SUBJECT: **IV.C. Consideration of 2022 Capital Facilities Plan**

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Brad Jensen and the District's staff has been updating the Capital Facilities Plan for 2022. The District's Capital Facilities Plan was last updated in 2017. There are several items that are different now than in 2017 and previous years. Several items that have been updated are:

1. The District's water sources
2. The District's water supply
3. System Analysis
4. Projects list
5. Exhibits and maps
6. A new section for a capital asset management plan

This is the opportunity to discuss any questions regarding the 2022 Capital Facilities Plan.

A suggested motion would be, "I move that we approve the 2022 Capital Facilities Plan."

***ROY WATER CONSERVANCY DISTRICT***  
***CAPITAL FACILITIES PLAN***

DRAFT

***November 2022***



# 2022 CAPITAL FACILITIES PLAN UPDATE

## November 2022

Roy Water Conservancy District  
5440 South Freeway Park Drive  
Riverdale, Utah 84405

801-825-9744

Engineer



Wasatch Civil Consulting Engineering  
1150 South Depot Drive, Suite 225  
Ogden, Utah 84404  
(801) 775-9191

ROY WATER CONSERVANCY DISTRICT

2022 Capital Facilities Plan Update

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**Appendix**

# SECTION 1

## INTRODUCTION

# SECTION 1

## INTRODUCTION

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The following Capital Facilities Plan is an update to an original study that was adopted by the Board of Trustees in June of 1996, and has been updated in 2001, June 2004 with revisions in March 2005, August 2007, September 2007, May 2012, August 2017, and November 2022. The format of this update has been maintained for clarity. Since the time of the original 1996 study, a considerable amount of the planned development has occurred within the District's boundaries.

Other issues have evolved that will continue to affect the Roy Water Conservancy District (District) secondary water system. Some of these are as follows:

1. Weber Basin Water Conservancy District (Weber Basin) has developed a secondary water system in West Haven City and the District currently has an Operation and Maintenance Agreement (Agreement) with Weber Basin for operating and maintaining their West Haven secondary water system (West Haven System). The original intent of this Agreement was to determine the feasibility of the District permanently taking ownership of the West Haven System. Currently, there are no plans by the District to permanently take ownership of the West Haven System, only to continue the Agreement.
2. The District has completed its evaluation of the areas in the District that are not being served by pressurized secondary water and in August of 2013, the District eliminated impact fees. Other areas in the District that have never had water allocated to the property, will be required to bring water to the District in the form of Davis and Weber Counties Canal Company (Canal Company) shares, Wilson Irrigation Company (Wilson Irrigation) Shares, or Hooper Irrigation Company (Hooper Irrigation) Shares. The Canal Company, Wilson Irrigation, or Hooper Irrigation water shares will then be allocated to the property through the exaction process.
3. In 2005, the District obtained 365 ac-ft of additional source water from Weber Basin through Roy City Corporation (Roy City). The 365 ac-ft consists of 322 ac-ft from Weber Basin's Federal Project Water (see petition dated November 2, 2005) and 43 ac-ft from Weber Basin's Non-Federal Project Water (see contract account #91105 dated April 13, 2005). Roy City had previously determined that they had excess water source for their culinary water system following the development of new sources. Prior to the development of their new source water, Roy City had been receiving the bulk of its source water from Weber Basin through a "take or pay" contract. The District continues to discuss the possibility of obtaining additional excess water from Roy City with both parties. Currently, there are no immediate plans to negotiate any of Roy City's "take or pay" contracts with Weber Basin. However, there may be a need in the future, therefore, the District continues to leave this option open.
4. In the 2022 Utah State Legislative Session, House Bill 269 was passed requiring the District to commit to adopting a capital asset management plan. An additional chapter has

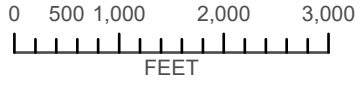
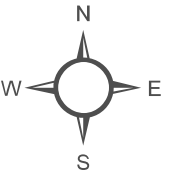
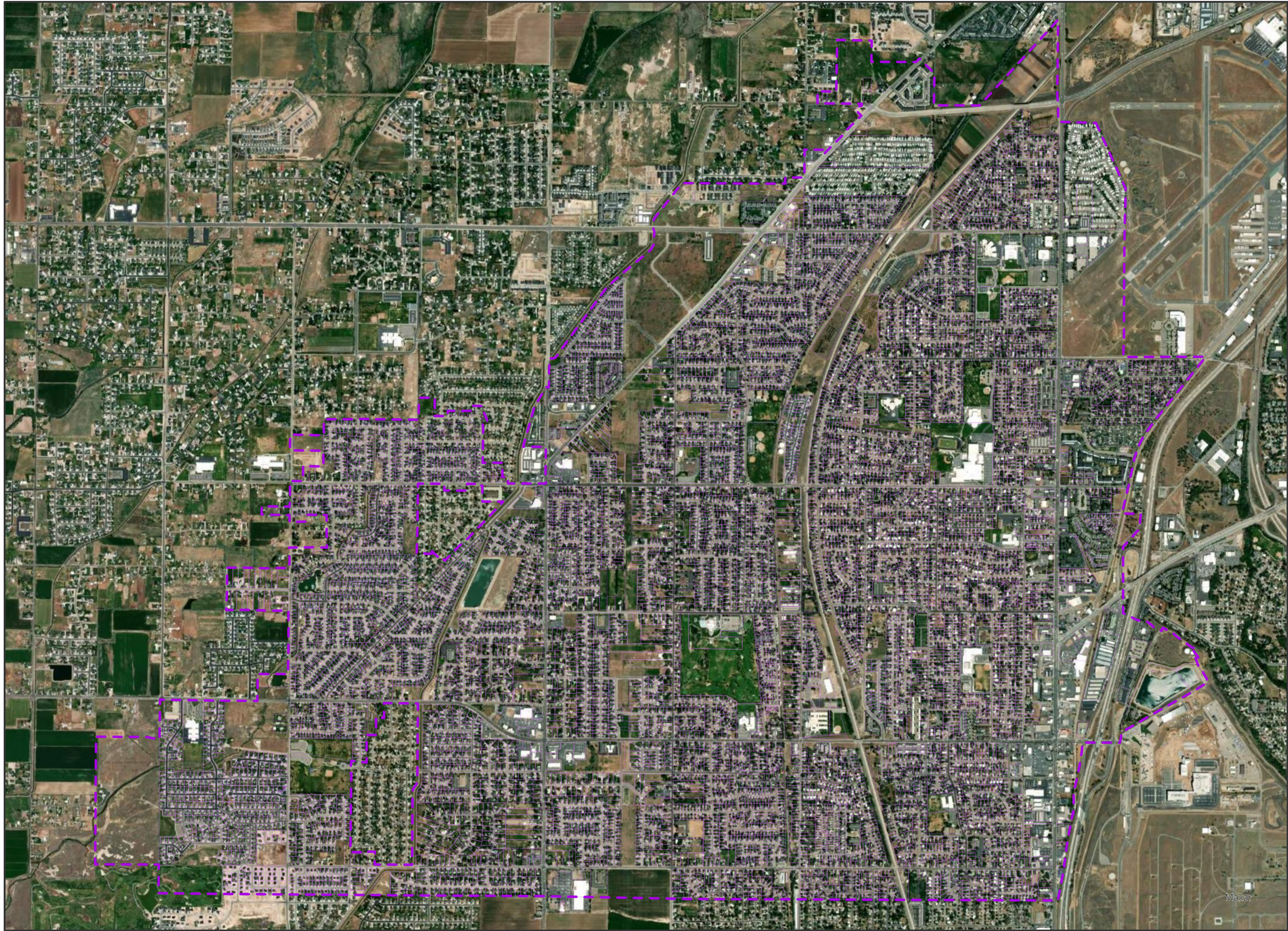
been added to the District's Capital Facilities Plan to address this commitment

The need for an updated study is necessary due to ongoing changes within the District's service area. The existing storage, supply and distribution systems have been re-evaluated with a computer model and the anticipated future improvements have been designed according to the latest information available. The format of this update was kept as close to that of past documents as possible to simplify comparison. It should be noted that additional updates and modifications will continue to be required as significant changes occur.



**EXHIBIT 1-1**

**AERIAL MAP OF STUDY AREA**





**LEGEND**

-  RWCD Boundary
-  RWCD Served Tax Parcels

**EXHIBIT 1-1**

**AERIAL MAP OF STUDY AREA**

Maxar



## SECTION 2

# EXISTING SECONDARY WATER SYSTEM



## SECTION 2 - A

### WATER SOURCES

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#### Davis & Weber Counties Canal Company Shares:

The District currently owns shares of the Davis and Weber Counties Canal Company (Canal Company) stock. The District also leases an additional 144 shares of Canal Company stock. Of the leased shares, 87 are leased from Roy City and 22 shares are leased from Eagle Lake Golf Course and are considered permanent. The remaining 35 shares are leased from private entities or individuals. Consequently, the total shares currently controlled by the District is equal to 1,659. However, since 35 of the leased shares cannot be considered permanent, the total shares that are permanently under the control of the District is 1,624. Assuming an irrigation duty of 3.4 acre-feet per acre and a figure of 6 acre-feet per share of Canal Company water, there are adequate shares controlled by the District to irrigate approximately **2,866 acres** of land from owned shares, and **254 acres** from leased shares.

Each share of Canal Company stock gives an owner the right to a yearly amount of irrigation water. Although the quantity could vary, (depending on the year) the Canal Company has historically used a figure of approximately 7 acre-feet per share as a basis of measurement. However, due to concerns regarding how the Canal Company will allocate its water in the future, a figure of **6 acre-feet per share** was used for the purposes of this study. Over the last 5 years, the average allocation of water per share has been less than 6 acre-feet of water per share. As part of a previous study, an analysis was completed to determine how much water is actually delivered to the acreage located within the boundaries of the Study Area. The result of the analysis indicated that an irrigation duty of **3.4 acre-feet per acre** should be used within the District's boundary. The flow rate into the reservoir allowed by the Canal Company has varied over the years from approximately 0.011 to 0.032 cubic feet per second, per share. This has also been dependent on available water.

#### Wilson Irrigation Company Shares:

The District currently owns 21.5 shares of the Wilson Irrigation Company (Wilson) stock. The District currently leases these shares to stockholders on the South Branch of Wilson's canal. Assuming an irrigation duty of 3.4 acre-feet per acre and a figure of 3.4 acre-feet per share of Wilson water, these shares would irrigate approximately 21.5 acres of land.

#### Roy City Drainage Water Rights:

In 1992, the District filed for appropriation of land drain and storm drainage water from various points of diversion within Roy City. Their application was approved by the State Engineer's office in 1994. This appropriation could provide as much as **10 cubic feet per second** to the system. Seven points of diversion are listed in the water right which captures drainage water from the City at 6000, 5700, 5200, and 4800 South Streets and on Midland Drive. On January 2, 2002, the District filed a change application with the State Engineer in order to change the points of

diversion from the seven locations indicated above, to either the existing District reservoir or the location of a new reservoir. The State Water Right Number assigned to this source is 35-5813.

The District also owns a **2.0 cubic feet per second**, certificated right for Roy City stormwater diverted at 3500 West and 5700 South. The State Water Right Number assigned to this source is 35-4401.

Previous planning indicated that both drainage rights were to be developed as part of system expansion. If the full rights are developed, they could potentially provide irrigation water to approximately 1,050 acres of irrigable land, (assuming a 183 day irrigation season, and a 3.4 acre-foot per acre duty). Currently, it is unlikely that either of the drainage rights described above will be completely developed for use in the District's system. This is due to difficulties encountered in producing the necessary agreements and infrastructure that would be required and the sale of the land purchased for a new reservoir. However, it is recommended that these sources be used to benefit the District area to the fullest extent possible by being exchanged for a higher quality water source, leased to another party, or utilized by some other method.

### **Weber Basin Water Conservancy District:**

In 2005, talks took place between Weber Basin, Roy City, and the District. The purpose of these talks was to negotiate the transfer of a portion of water currently being purchased from Weber Basin by Roy City under a take-or-pay contract. Under the existing contract between Roy City and Weber Basin, Roy City is required to pay for the water whether they use it, or not. Prior to 2005, Roy City developed an additional internal water source that has resulted in a portion of the Weber Basin contract water being excess. In an effort to avoid a situation where the residents of Roy City would have to purchase additional water for secondary use when there is already excess water under the Weber Basin contract, the District assumed a portion of the Weber Basin water under the take or pay contract. The water is currently being wheeled through the existing Canal Company system and delivered to the District's Reservoir. The negotiations resulted in the transfer of **365 ac-ft** from the Roy City contract to the District under a petition with Weber Basin for 322 ac-ft and a contract with Weber Basin for 43 ac-ft of water. Assuming a **3.4 acre-foot per acre** duty, this water provides water source for approximately **1,241 acres**.

### **Source Summary:**

The District obtains its water primarily from the Canal Company. Although the number of shares is known, the quantity per share depends on the Canal Company's per share declaration each irrigation season. Although historically the normal per share declaration has been 7 ac-ft, commitments entered into by the Canal Company in 1988 has reduced the normal per share declaration to 6.0 ac-ft. Due to recent drought conditions, the per share declarations have varied for the last 7 years from a low of 4.4 ac-ft per share to 6.89 ac-ft per share. Therefore, for the purposes of this study, the value of 6.0 ac-ft per share will be used because it conservatively estimates the District's available water. The drainage water has the potential of providing up to 12 cfs, although it appears that it may be difficult to develop this water for use in the District's system. The Weber Basin water described above has been utilized over the last ten years and could provide most of the additional water that is currently anticipated as being required by the District.

## SECTION 2 - B

### WATER SUPPLY

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The District's stock in the Canal Company allows them to divert between **18 and 45 cubic feet per second (cfs)** from the canal into the reservoir. The allowable diversion rate is set by the Canal Company and has varied over the years from **0.011 cfs, per share to 0.032 cfs, per share**.

The current total average daily system demand for the past four years is **50 cfs**, and the peak hour demand is **79 cfs**. These flows include approximately 16 cfs that is wheeled through the reservoir and distribution system to supply three Canal Company turn-outs and Weber Basin's West Haven connection (discussed later in this section). Water is supplied to the system through a **48" diameter trunk line** that serves the **lower (gravity) system** and a **30" diameter trunk line** that serves the **upper (pumped) system**. The two systems are completely independent and are not interconnected. The Union Pacific railroad tracks serve as a delineation between the gravity and pumped zones. The two trunk lines parallel each other from the pump house at the reservoir to what shall be referred to in this study as the airport road diversion, which is located near the intersection of 5200 South and 1750 West Streets. The lines run northwesterly underneath the interstate from the reservoir, then northerly underneath Riverdale Road, and westerly across the Hill Air Force Base railroad spur to the diversion.



#### Upper System:

This system serves the District service area east of the railroad tracks. A series of pumps produce the required pressure and flows to the system. Each pump is controlled by a variable frequency drive and a programmable logic controller (PLC) to ensure that a constant pressure is maintained. The pump sizes are three 200 horsepower pumps and two 100 horsepower pumps. The two 100

horsepower pumps provide much of the required flows during low demand conditions. When demand increases, one of the 200 horsepower pumps is energized and is then supplemented by the two smaller pumps. The other 200 horsepower pumps enable the District to provide adequate system flows during extreme peak demands or if mechanical problems occur with the other pumps. A SCADA system has been installed in order to closely monitor the motors and pumps while they are operating. The pumps are constantly being upgraded and maintained in order to handle the existing system demands at a high level of service.

Main lines for the pumped system consist of the 30" trunk line from the pump house to the airport road diversion. The 30" line continues in 1750 West to 4800 South where it reduces to a 24" line. The 24" main continues from 4800 to 4400 South and up to 1900 West. A 24" main line also extends from the diversion on 1750 West, westerly down 5200 South to 2200 West. The 24" main lines typically feed either 18" or 16" lines which have been placed in sections of 1900, 2000, 2050, and 2175 West Streets, as well as 4400, 4800, and 5200 South Streets. These lines, along with several 12" and 10" lines serve as the backbone of the upper system. The original system was designed with large enough trunk and main lines to serve the entire potential area within this zone.

The District wheels approximately 2.5 cfs of water through the upper system for the Canal Company. In 2016, the **North Branch** was relocated from the lower system to the upper system to a point near 1825 West and 4400 South and diverts approximately 2.5 cfs through an 8" valve out of the upper system. The North Branch water flows through a piped ditch and then an open ditch to serve areas of West Haven and Ogden City. It is expected that as the agricultural ground currently receiving water through the North Branch develops, flow through this diversion will decrease.

### **Lower System:**

The lower system serves the westerly portion of the service area below the Union Pacific railroad tracks. Due to the difference in elevation between the storage reservoir and the lower system, it is not necessary to pump irrigation water to this area. By the time the water is piped to a point below the tracks, it has a static pressure of approximately 70 psi. Gravity trunk lines were constructed from the pump house to the airport road diversion and down 5200 South to the main line connections below the tracks. A 48" main line carries water to the airport diversion; from there, the line reduces down to 42" diameter until it reaches the old West Branch turn-out near 2500 West Street. It reduces again below the West Branch turn-out to a 36" pipe until it intersects 2700 West Street. The beginning of the lower system feed is at the intersection of 5200 South and 2700 West, where the line splits to the north (18"), south (30"), and west (24"). These lines feed 18", 16", and 14" mains which, along with some 12" and 10" lines, serve as the backbone of the lower system. As with the upper system, the trunk and main lines for this zone were originally designed and constructed large enough to serve the entire potential area within the lower zone.

Generally speaking, pressures in the lower system are considerably higher than in the upper system. By the time the water reaches the westerly boundaries of the service area, the pressure can exceed 100 psi. Due to the gravity nature of the lower system, it is not susceptible to service interruptions from power outages. Most of the recent and future growth has, or will occur within the lower system.

The old **West Branch** turn-out previously served as a 24" valved diversion that conveyed irrigation water to the Scribner ditch. Due to the fact that most of the land previously served from the ditch has been developed into residential property, this turn-out has been replaced by two smaller turn-outs as follows:

1. **Kapp Lateral** - is a 2" diameter metered service located on the north side of 4000 South Street, between the UPRR tracks and the Rail Trail. This turn-out delivers approximately **1.0 cfs** of water through a portion of Scribner ditch to a delivery ditch north of 4000 South Street;
2. **Butler Lateral** - previously known as Phippen Lateral consists of a single 2" diameter metered service that was relocated in 2015 to the east side of 2700 West, near the Chevron gas station, at about 3800 South. It delivers approximately **0.5 cfs** to land west of 2700 West in West Haven.

As with the North Branch, it is expected that flows through the Kapp and Butler Laterals will decrease due to the development of agricultural properties. At some future time, these turn-outs may be eliminated

Weber Basin's West Haven connection was completed in July 2014 and is a 24" metered interconnection between the District's 42" trunk line and Weber Basin's 60" drought relief line. The connection provides for up to 10.0 cfs of Weber Basin's Canal Company shares to be wheeled through the District's lower system to provide a water supply to Weber Basin's West Haven system which is a secondary water system similar to the District's. The District and Weber Basin entered into an Inter-local Agreement for the operation and maintenance of Weber Basin's West Haven system in 2011. The connection also provides for water deliveries from Weber Basin to the District in times of emergency as provided in the agreement. It is anticipated that the District and Weber Basin will continue this agreement into the foreseeable future.

## SECTION 2 - C

### WATER STORAGE

---

The District has an existing secondary water storage reservoir with a capacity of approximately **169 acre-feet** (when measured at a depth of 16'). The reservoir is located within the corporate limits of Riverdale City, northeast of the District's administrative offices. It occupies approximately 15 acres of surface area, as measured around the top edge of the liner. The reservoir is lined with reinforced concrete. The concrete joints are sealed to minimize potential leakage. A leak detection system consisting of both piezometers and a sand drain was installed that would indicate if leakage is occurring.

The reservoir has served as a buffer to insure adequate water delivery during peak conditions. Peak hour demands require a system supply of as much as **79 cfs**, while maximum available inlet rates are approximately **50 cfs**. The water level in the reservoir typically lowers during the



hours of peak use from approximately 5:00 a.m. to 10:00 a.m. and again from 6:00 p.m. to 11:00 p.m. The reservoir then re-fills during times of off-peak use. The District's requirement to conserve water by restricting irrigation to between the hours of 6:00 p.m. to 10:00 a.m. has resulted in a much higher demand on the reservoir. Prior to 2000, many of the users watered during the day, spreading the demand out over a larger period of time. During the winter of 2002 and the spring of 2003, an expansion of the existing storage reservoir was completed. The expansion added

approximately 46 acre-feet of storage capacity to the reservoir. Based on observations of the performance of the reservoir, it appears that the current reservoir capacity will provide adequate storage for build-out.

## SECTION 2 - D

### ANALYSIS OF EXISTING SYSTEM DEFICIENCIES

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Following the application of the water distribution model to the existing District secondary water system, the results were compared to the recommendations outlined by the State of Utah Division of Drinking Water. As per the recommendations, historical system flow records or firm water use data was obtained, and the average day and peak day flows were determined. Using these values, pressure contour maps were produced and analyzed (Exhibit 2-1 & 2-2). The purpose of the analysis was to look for deficiencies in the system that would result in areas of reduced service during times of peak use. When looking for deficiencies, **70 psi** was used as an optimum system pressure, and **40 psi** was used as a minimum system pressure.

In the **Upper System**, pressure contours shown on Exhibit 2-3 indicate that average day system pressures range from approximately 78 psi to 134 psi. When peak hour conditions are considered, the effects on the system are indicated by a drop in system pressure. This pressure drop is shown on Exhibit 2-2 by a shift in the contour lines. With the peak hour conditions applied, system pressures range from between approximately **42 psi to 87 psi**.

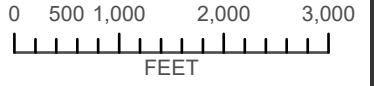
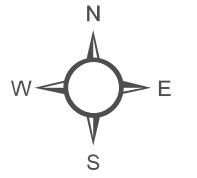
A similar situation exists in the **Lower System**. When an average day demand is applied to the system through the computer model, pressures range from 51 psi to 145 psi (Exhibit 2-1). However, when Peak Hour Demands are applied, the pressures with this zone shift significantly, generally creating areas of lower pressure. Even though there is a reduced system pressure in isolated areas of the system, pressures and flow appear to be in the acceptable ranges, from **46 psi to 128 psi** (Exhibit 2-2).

As indicated on Exhibits 2-1 & 2-2 existing system pressures are within acceptable limits under both average and peak flow conditions. No system deficiencies were identified.

**EXHIBIT 2-1**

**EXISTING SERVICE PRESSURES  
AVERAGE DAY**



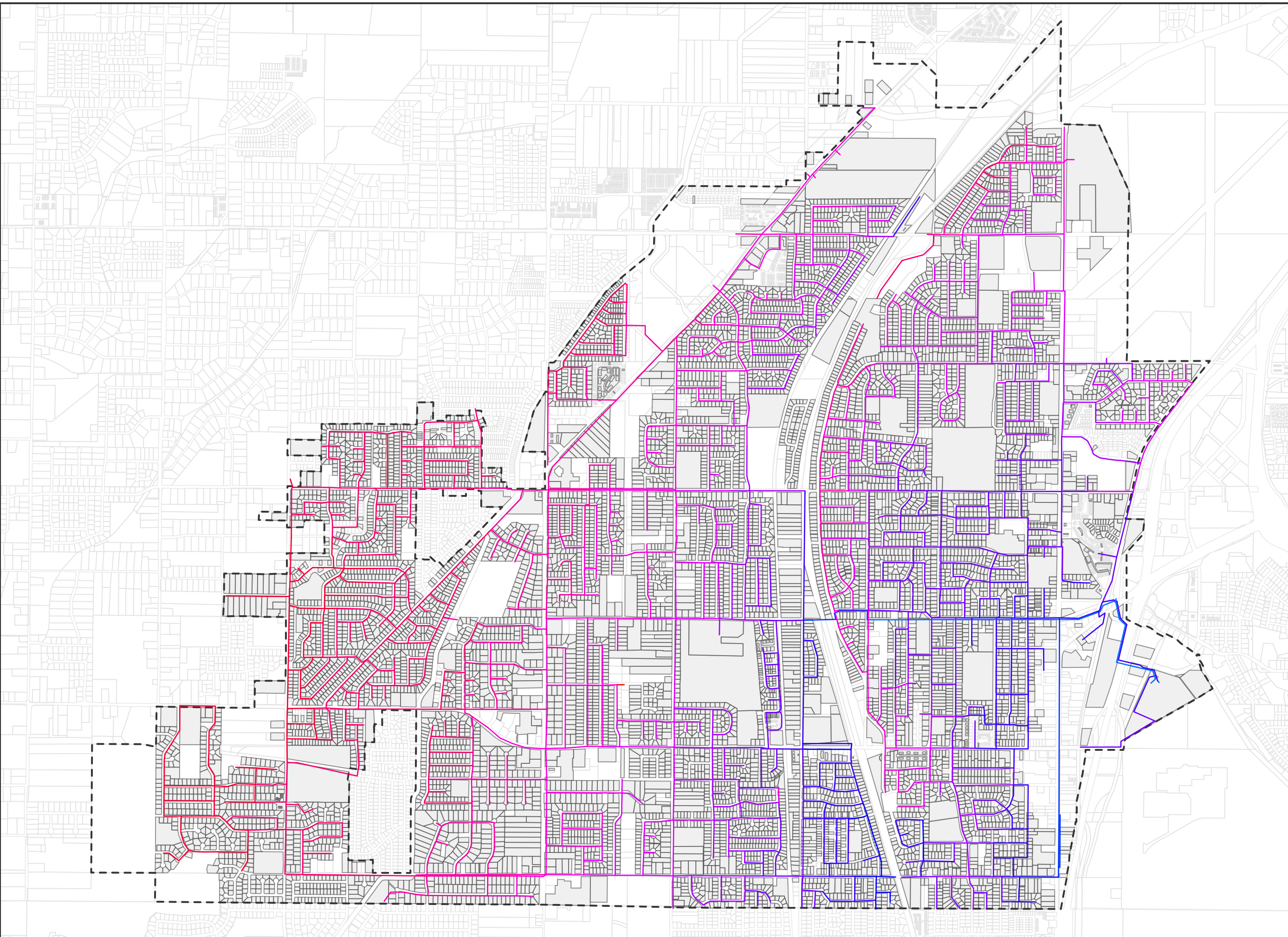


**LEGEND**

- RWCD Boundary
- RWCD Served Tax Parcels

**PIPELINE PRESSURE [ PSI ]**

- 1-40
- 41-50
- 51-60
- 61-70
- 71-80
- 81-90
- 91-100
- 101-110
- 111-120
- 121-130
- 131-140
- 141-150



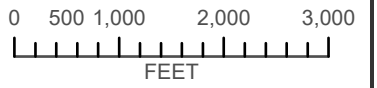
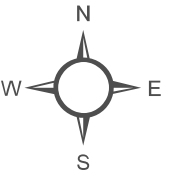
**EXHIBIT 2-1**  
**EXISTING SERVICE PRESSURES - ADD**

**EXHIBIT 2-2**

**EXISTING SERVICE PRESSURES**

**PEAK HOUR**



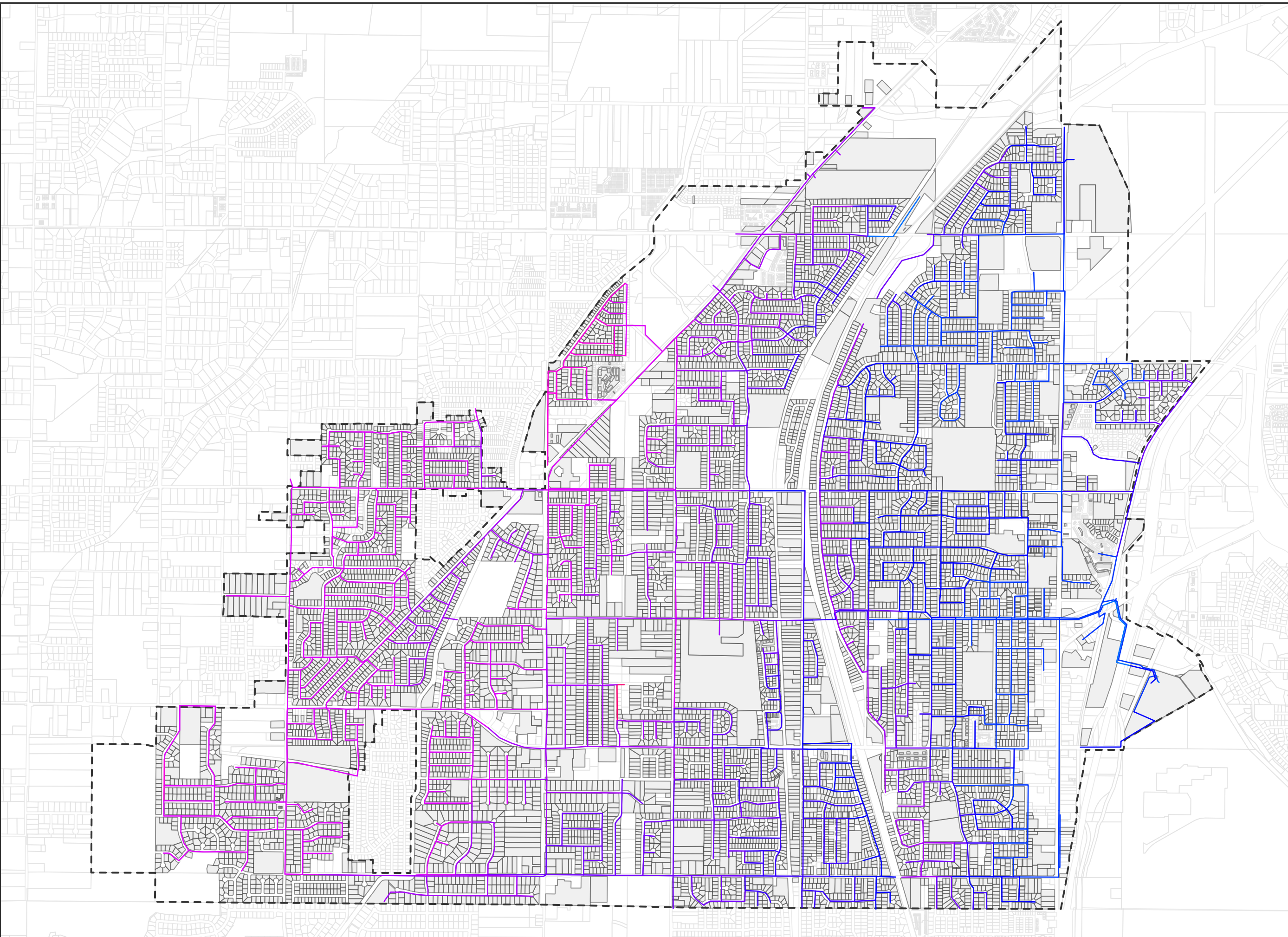


**LEGEND**

- RWCD Boundary
- RWCD Served Tax Parcels

**PIPELINE PRESSURE**  
[ PSI ]

- 1-40
- 41-50
- 51-60
- 61-70
- 71-80
- 81-90
- 91-100
- 101-110
- 121-130

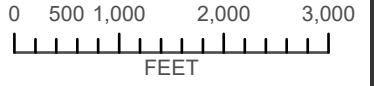
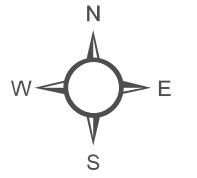


**EXHIBIT 2-2**  
**EXISTING SERVICE PRESSURES - PHD**

## EXHIBIT 2-3

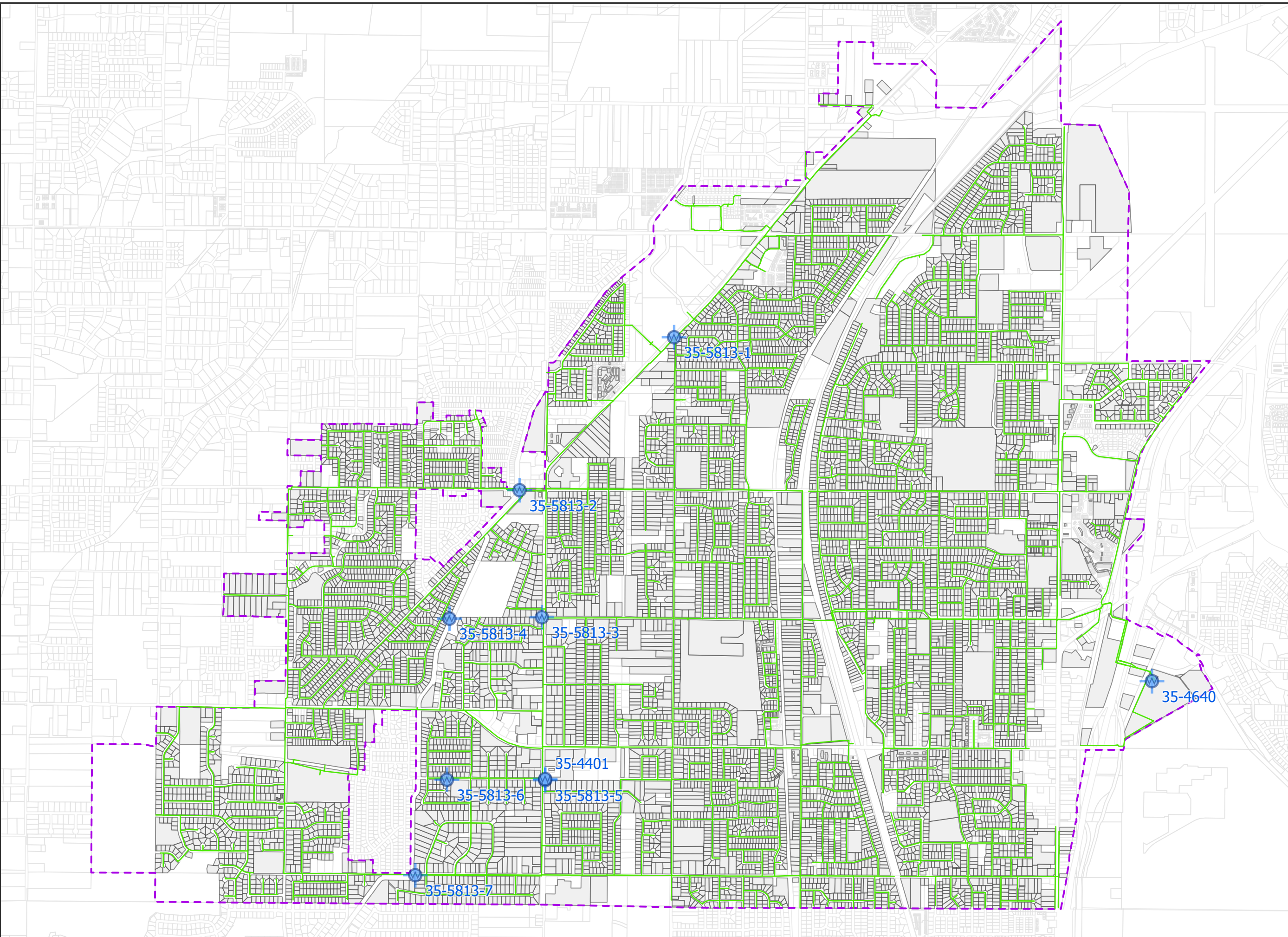
# WATER RIGHTS LOCATIONS





**LEGEND**

- RWCD Boundary
- RWCD Serviced Tax Parcels
- Secondary Irrigation Lines
- RWCD Water Right



**EXHIBIT 2-3**

**WATER RIGHTS LOCATIONS**

## SECTION 3

# CAPITAL FACILITIES PLAN

## SECTION 3

### CAPITAL FACILITIES PLAN ANALYSIS

---

The Capital Facilities Plan for the RWCD secondary water system is a summary of research, calculations and modeling that assess future water needs as they relate to potential growth. The Plan should serve as a guide for all future development within the water system service area. It also provides a quantitative measure of improvements with costs for planning purposes.

#### **1. Projection of future secondary water system demands:**

The common equivalent base used for analysis, design and planning for future growth is referred to as a “**equivalent residential unit (ERU)**”. An **ERU** is an area that is equivalent to the irrigable square footage of a typical residential lot (including a house, driveway, patio, garage, landscaping, etc.) The average residential lot irrigable area (ERU) was estimated to be **8,900 ft<sup>2</sup>**.

#### **A. Determination of Total Number of Existing ERUs in Upper Zone**

1. Standard Residential = 3,256 ERUs

2. High Density Residential

97.5 acres x 0.2 (% landscaped) x  
43,560 ft<sup>2</sup>/acre ÷ 8,900 ft<sup>2</sup>/lot = 95 ERUs

3. Commercial

136.5 acres x 0.10 (% landscaped) x  
43,560 ft<sup>2</sup>/acre ÷ 8,900 ft<sup>2</sup>/lot = 150 ERUs

4. Churches

34.7 acres x 0.37 (% landscaped) x  
43,560 ft<sup>2</sup>/acre ÷ 8,900 ft<sup>2</sup>/lot = 63 ERUs

5. Government

13.7 acres x 0.55 (% landscaped) x  
43,560 ft<sup>2</sup>/acre ÷ 8,900 ft<sup>2</sup>/lot = 37 ERUs

6. Schools

$$85 \text{ acres} \times 0.80 \text{ (\% landscaped)} \times 43,560 \text{ ft}^2/\text{acre} \div 8,900 \text{ ft}^2/\text{lot} = 333 \text{ ERUs}$$

7. Parks and Green Space

$$44.2 \text{ acres} \times 0.82 \text{ (\% landscaped)} \times 43,560 \text{ ft}^2/\text{acre} \div 8,900 \text{ ft}^2/\text{lot} = 192 \text{ ERUs}$$

8. Industrial

$$62 \text{ acres} \times 0.2 \text{ (\% landscaped)} \times 43,560 \text{ ft}^2/\text{acre} \div 8,900 \text{ ft}^2/\text{lot} = 61 \text{ ERUs}$$

9. Vacant - Irrigated

$$33.5 \text{ acres} \times 43,560 \text{ ft}^2/\text{acre} \div 8,900 \text{ ft}^2/\text{lot} = \underline{95 \text{ ERUs}}$$

**Total Upper System      4,282 ERUs**

**B. Determination of Total Number of Existing ERUs in Lower Zone**

1. Standard Residential      = 5,915 ERUs

2. High Density Residential

$$127.7 \text{ acres} \times 0.2 \text{ (\% landscaped)} \times 43,560 \text{ ft}^2/\text{acre} \div 8,900 \text{ ft}^2/\text{lot} = 125 \text{ ERUs}$$

3. Commercial

$$130.5 \text{ acres} \times 0.18 \text{ (\% landscaped)} \times 43,560 \text{ ft}^2/\text{acre} \div 8,900 \text{ ft}^2/\text{lot} = 215 \text{ ERUs}$$

4. Churches

$$29.3 \text{ acres} \times 0.37 \text{ (\% landscaped)} \times 43,560 \text{ ft}^2/\text{acre} \div 8,900 \text{ ft}^2/\text{lot} = 53 \text{ ERUs}$$

5. Government



$$20.6 \text{ acres} \times 0.55 \text{ (\% landscaped)} \times 43,560 \text{ ft}^2/\text{acre} \div 8,900 \text{ ft}^2/\text{lot} = 55 \text{ ERUs}$$

6. Schools

$$15 \text{ acres} \times 0.80 \text{ (\% landscaped)} \times 43,560 \text{ ft}^2/\text{acre} \div 8,900 \text{ ft}^2/\text{lot} = 59 \text{ ERUs}$$

7. Parks and Green Space

$$150.9 \text{ acres} \times 0.82 \text{ (\% landscaped)} \times 43,560 \text{ ft}^2/\text{acre} \div 8,900 \text{ ft}^2/\text{lot} = 665 \text{ ERUs}$$

8. Industrial

$$16.4 \text{ acres} \times 0.2 \text{ (\% landscaped)} \times 43,560 \text{ ft}^2/\text{acre} \div 8,900 \text{ ft}^2/\text{lot} = 16 \text{ ERUs}$$

9. Vacant - Irrigated

$$42.5 \text{ acres} \times 43,560 \text{ ft}^2/\text{acre} \div 8,900 \text{ ft}^2/\text{lot} = \underline{107 \text{ ERUs}}$$

**Total Lower System      7,210 ERUs**

Summarizing the above calculations of the existing Upper System:

1. Total number of residential ERUs = **3,256**
2. Total number of non-residential ERUs = **1,026**
2. Total existing ERUs = **4,282**
3. Total existing irrigable acreage = **875 acres**

Summarizing the above calculations of the existing Lower System:

1. Total number of residential ERUs = **5,915**
2. Total number of non-residential ERUs = **1,295**
3. Total existing ERUs = **7,210**
4. Total existing irrigable acreage = **1,473 acres**

**2. Analysis of effects of potential growth on the existing system:**

Current Land Use information was obtained from Roy City, West Haven City, and Hooper City in order to project uses of potential service areas within the Study Area boundary. Future system ERUs were determined by applying the same methods indicated above for calculating existing system ERUs. Future system ERUs were determined by hand counts and are as follows. Future Upper System ERUs = **4,939**. Future Lower System ERUs = **9,609**. Total Future System ERUs = **14,548**. This represents an increase of the 3,056 ERUs.

## Source

Total Upper and Lower future system ERUs represent an increased irrigable area of:  $[3,056 \times 8,900 \text{ ft}^2] \div 43,560 \text{ ft}^2/\text{acre} = \mathbf{624 \text{ acres}}$ . Applying a duty of 3.4 acre-feet per irrigable acre indicates that **2,122 acre-feet** of source water will be needed to satisfy this demand. Presented below is a summary of the current District water sources (see Section 2-A "Water Sources")

Source Description	Shares	Acre-feet	Acres
Owned D&WCCC Stock	1,371	8,226	2,419
Roy City D&WCCC Stock	87	522	154
Eagle Lake Golf Course	22	132	39
Leased D&WCCC Stock	144	864	254
WBWCD Leased Water	NA	365	107
<b>Total</b>		<b>10,109</b>	<b>2,973</b>

Considering that 2,348 irrigable acres are currently being served, RWCD controls adequate sources to provide irrigation water to ~~561 of the 624 future irrigable acres~~ leaving a deficit of ~~63 acres (214 acre-feet)~~.

## Supply

Past irrigation water use data obtained from charts indicates that the upper system peak hour demand is approximately 2.4 gpm per ERU and that the Lower system peak is approximately 2.7 gpm per ERU. These numbers were obtained by dividing peak hour flows by the total number of existing ERUs. Current water use is due to present conservation efforts. Future growth will require an increased water supply to both the Upper and Lower systems. Applying the existing peak demands to the future system yields the following information:

### Future Upper System Peak Hour Demand:

4,939 ERUs x 2.4 gpm/ERU = 11,854 gpm, or **26.5 cfs**

### Future Lower System Peak Hour Demand:

9,514 ERUs x 2.7 gpm/ERU = 25,688 gpm, or **57.34 cfs**

**Total** **83.84 cfs**

## Storage

The District's original 1996 Capital Facilities Plan and Impact Fee Study indicated that future storage amounts should be comparable and proportionate to the available storage at that time as compared to the acreage served. It was determined at that time that a reservoir expansion of approximately 46.5 acre-feet would satisfy those demands. The expansion of the existing reservoir facility added approximately 46 acre-feet for storage capacity. However, since the difference in the volume requirement for future growth is relatively small, it is anticipated that the expanded 169 acre-foot reservoir operated by the District will be adequate.

### 3. Development of plan for improvements to satisfy future growth:

#### Source

As indicated above, additional sources will be required to serve approximately 133 irrigable acres. Section 2-A outlines a future source of water available by obtaining a portion of the excess "take-or-pay" water from WBWCD. Additional water would be required for **133 acres** of irrigable ground. This means that other sources would have to be developed to provide water for the remaining deficit of **63 acres (214 acre-feet)**.

#### Supply

Computer modeling of the future system supply demands indicated that a number of distribution system improvements would be required to make the irrigation system function at an acceptable level of service with the added demands on the system. These improvements were broken down into projects and are indicated on the Capital Facilities Plan "Exhibit 3-1". The system model was also evaluated with the planned improvements, and it indicated acceptable levels of service (see Exhibit 3-3).

#### Storage

A significant reservoir expansion project was completed in 2002-03. Based on past performance, it appears that the capacity of the reservoir will generally be able to meet the needs of the Service Area.

### 4. Estimating costs for future system improvement projects

Each of the above mentioned improvements for the future source, supply, and storage systems in the District have been identified on the following spreadsheets. Improvements were separated into individual projects as indicated on the Capital Facilities Plan. Cost estimates for each project have been included for budgeting purposes. An amount equal to twenty percent (20%) of the estimated subtotal costs has been added to each project to include engineering, surveying, project management and unexpected change orders.

**Source:**

As indicated previously, Roy Water Conservancy District has both current and future sources to serve 2,973 acres (10,109 acre-feet) of irrigable land. Including ground that is currently being irrigated as agricultural land, the total acreage currently being served is 2,348 acres (7,694 acre-feet). This results in an excess source that could serve up to 561 acres (1,935 acre-feet).

**SECTION 3-B**

**PROJECT ESTIMATES**

# Roy Water Conservancy District

## Capital Improvements Plan

### Cost Estimate

#### Project No. 1

Description: Replace an Existing 4" Line with a new 6" Dia. Water Line

Location: Along 2600 West Street From 5800 South to 5950 South Street

Item	Description	Quantity	Unit Price	Total
<b>Water System Improvements</b>				
1	Furnish and Install 6" Diameter Class 200 PVC Water Line	902 L.F.	\$42.00	\$37,884.00
2	Connect to Existing Water Lines	2 Ea.	\$1,000.00	\$2,000.00
3	Furnish and Install 8" Tee	1 Ea.	\$12,300.00	\$12,300.00
4	Furnish and Install 10" Tee	1 Ea.	\$12,300.00	\$12,300.00
5	Furnish and Install 6" Dia. Water Valve	2 Ea.	\$2,800.00	\$5,600.00
6	Extend and Connect Existing Service Laterals	17 Ea.	\$1,400.00	\$23,800.00
Subtotal				\$ 93,884.00
<b>Misc. Improvements</b>				
7	Asphalt Repair	802 S.Y.	\$60.00	\$48,120.00
Subtotal				\$ 48,120.00
Project Subtotal				\$142,004.00
20% Engineering & Contingency				\$28,400.80
Total Estimated Project Cost				\$170,404.80

# Roy Water Conservancy District

## Capital Improvements Plan

### Cost Estimate

#### Project No. 2

Description: Replace an Existing 4" Line with a new 6" Dia. Water Line

Location: Along 2625 West Street From 5800 South to 5950 South Street

Item	Description	Quantity	Unit Price	Total
<b>Water System Improvements</b>				
1	Furnish and Install 6" Diameter Class 200 PVC Water Line	902 L.F.	\$42.00	\$37,884.00
2	Connect to Existing Water Lines	2 Ea.	\$1,000.00	\$2,000.00
3	Furnish and Install 8" Tee	1 Ea.	\$12,300.00	\$12,300.00
4	Furnish and Install 10" Tee	1 Ea.	\$12,300.00	\$12,300.00
5	Furnish and Install 6" Dia. Water Valve	2 Ea.	\$2,800.00	\$5,600.00
6	Extend and Connect Existing Service Laterals	25 Ea.	\$1,400.00	\$35,000.00
Subtotal				\$105,084.00
<b>Misc. Improvements</b>				
7	Asphalt Repair	802 S.Y.	\$60.00	\$48,120.00
Subtotal				\$48,120.00
Project Subtotal				\$153,204.00
20% Engineering & Contingency				\$30,640.80
Total Estimated Project Cost				\$183,844.80

# Roy Water Conservancy District

## Capital Improvements Plan

### Cost Estimate

#### Project No. 3

Description: Replace an Existing 4" Line with a new 6" Dia. Water Line

Location: Along 1950 West Street From 5100 South to 5200 South Street

Item	Description	Quantity	Unit Price	Total
<b>Water System Improvements</b>				
1	Furnish and Install 6" Diameter Class 200 PVC Water Line	640 L.F.	\$42.00	\$26,880.00
2	Connect to Existing Water Lines	1 Ea.	\$1,000.00	\$1,000.00
3	Furnish and Install 24" Tee	1 Ea.	\$12,300.00	\$12,300.00
4	Furnish and Install 6" Dia. Water Valve	1 Ea.	\$2,800.00	\$2,800.00
5	Extend and Connect Existing Service Laterals	9 Ea.	\$1,400.00	\$12,600.00
Subtotal				\$55,580.00
<b>Misc. Improvements</b>				
6	Asphalt Repair	569 S.Y.	\$60.00	\$34,140.00
Subtotal				\$34,140.00
Project Subtotal				\$89,720.00
20% Engineering & Contingency				\$17,944.00
Total Estimated Project Cost				\$107,664.00



# Roy Water Conservancy District

## Capital Improvements Plan

### Cost Estimate

#### Project No. 4

Description: Replace an Existing 4" Line with a new 6" Dia. Water Line

Location: Along 4550 South Street From 2525 West to 2675 West Street

Item	Description	Quantity	Unit Price	Total
<b>Water System Improvements</b>				
1	Furnish and Install 6" Diameter Class 200 PVC Water Line	1096 L.F.	\$42.00	\$46,032.00
2	Connect to Existing Water Lines	1 Ea.	\$1,000.00	\$1,000.00
3	Furnish and Install 4" Tee	1 Ea.	\$12,300.00	\$12,300.00
4	Furnish and Install 6" Tee	2 Ea.	\$12,300.00	\$24,600.00
5	Furnish and Install 6" Dia. Water Valve	3 Ea.	\$2,800.00	\$8,400.00
6	Extend and Connect Existing Service Laterals	13 Ea.	\$1,400.00	\$18,200.00
Subtotal				\$110,532.00
<b>Misc. Improvements</b>				
7	Asphalt Repair	975 S.Y.	\$60.00	\$58,500.00
Subtotal				\$58,500.00
Project Subtotal				\$169,032.00
20% Engineering & Contingency				\$33,806.40
Total Estimated Project Cost				\$202,838.40

# Roy Water Conservancy District

## Capital Improvements Plan

### Cost Estimate

#### Project No. 5

Description: Replace an Existing 4" Line with a new 6" Dia. Water Line

Location: Along 5500 South Street From 2900 West to 3100 West Street

Item	Description	Quantity	Unit Price	Total
<b>Water System Improvements</b>				
1	Furnish and Install 6" Diameter Class 200 PVC Water Line	780 L.F.	\$42.00	\$32,760.00
2	Connect to Existing Water Lines	2 Ea.	\$1,000.00	\$2,000.00
3	Furnish and Install 8" Tee	1 Ea.	\$12,300.00	\$12,300.00
4	Furnish and Install 6" Dia. Water Valve	2 Ea.	\$2,800.00	\$5,600.00
5	Extend and Connect Existing Service Laterals	9 Ea.	\$1,400.00	\$12,600.00
Subtotal				\$65,260.00
<b>Misc. Improvements</b>				
6	Asphalt Repair	694 S.Y.	\$60.00	\$41,640.00
Subtotal				\$41,640.00
Project Subtotal				\$106,900.00
20% Engineering & Contingency				\$21,380.00
Total Estimated Project Cost				\$128,280.00

# Roy Water Conservancy District

## Capital Improvements Plan

### Cost Estimate

#### Project No. 6

Description: Replace an Existing 4" Line with a new 6" Dia. Water Line

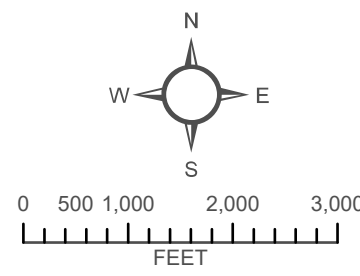
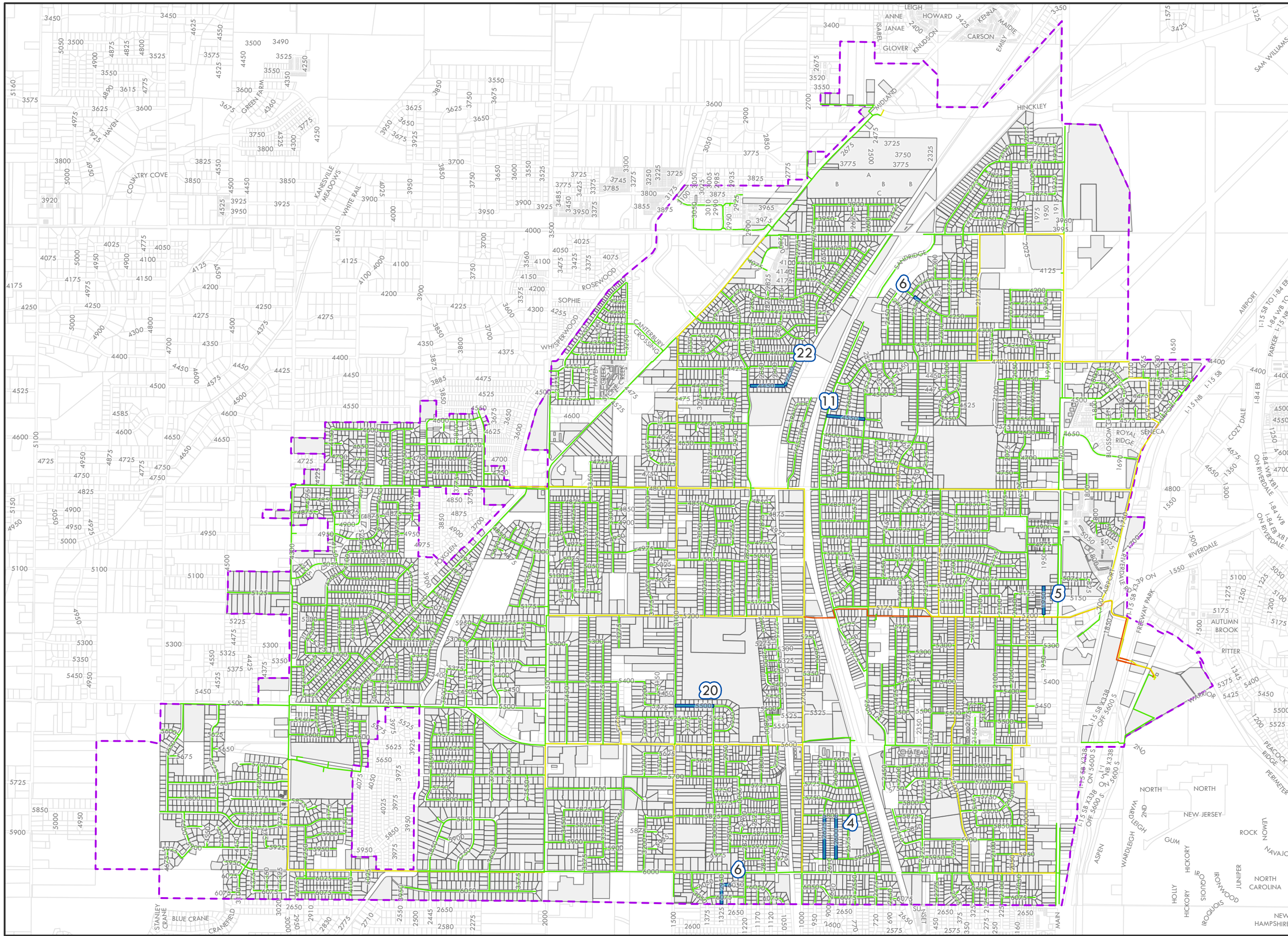
Location: Along 4450 South Street From 2750 West to 4425 West Street

Item	Description	Quantity	Unit Price	Total
<b>Water System Improvements</b>				
1	Furnish and Install 6" Diameter Class 200 PVC Water Line	765 L.F.	\$42.00	\$32,130.00
2	Connect to Existing Water Lines	2 Ea.	\$1,000.00	\$2,000.00
3	Furnish and Install 10" Tee	1 Ea.	\$12,300.00	\$12,300.00
4	Furnish and Install 6" Dia. Water Valve	2 Ea.	\$2,800.00	\$5,600.00
5	Extend and Connect Existing Service Laterals	10 Ea.	\$1,400.00	\$14,000.00
Subtotal				\$66,030.00
<b>Misc. Improvements</b>				
6	Asphalt Repair	680 S.Y.	\$60.00	\$40,800.00
Subtotal				\$40,800.00
Project Subtotal				\$106,830.00
20% Engineering & Contingency				\$21,366.00
Total Estimated Project Cost				\$128,196.00

# EXHIBIT 3-1

## CAPITAL FACILITIES PLAN





- LEGEND**
- RWCD Boundary
  - RWCD Served Tax Parcels
  - RWCD Projects
- IRRIGATION PIPE SIZES**
- 1" - 10"
  - 12" - 30"
  - 36" +

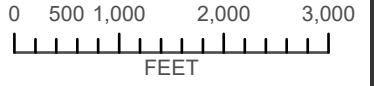
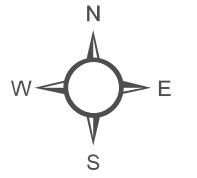
**EXHIBIT 3-1**  
**CAPITAL FACILITIES PLAN**



## EXHIBIT 3-2

# FUTURE SERVICE AREAS





**LEGEND**

- RWCD Boundary
- RWCD Served Tax Parcels
  
- Developed Lots or Potential Development w/Access to Infrastructure or Water
- Developed Lots or Potential Development w/No Access to Infrastructure or Water
- Existing Lots w/Available RWCD Service but not Connected to System
- Area Irrigated w/Culinary Water
- No Infrastructure Available or Anticipated
- Existing Developed Lot w/No current RWCD Service

**EXHIBIT 3-2**

**FUTURE SERVICE AREAS**

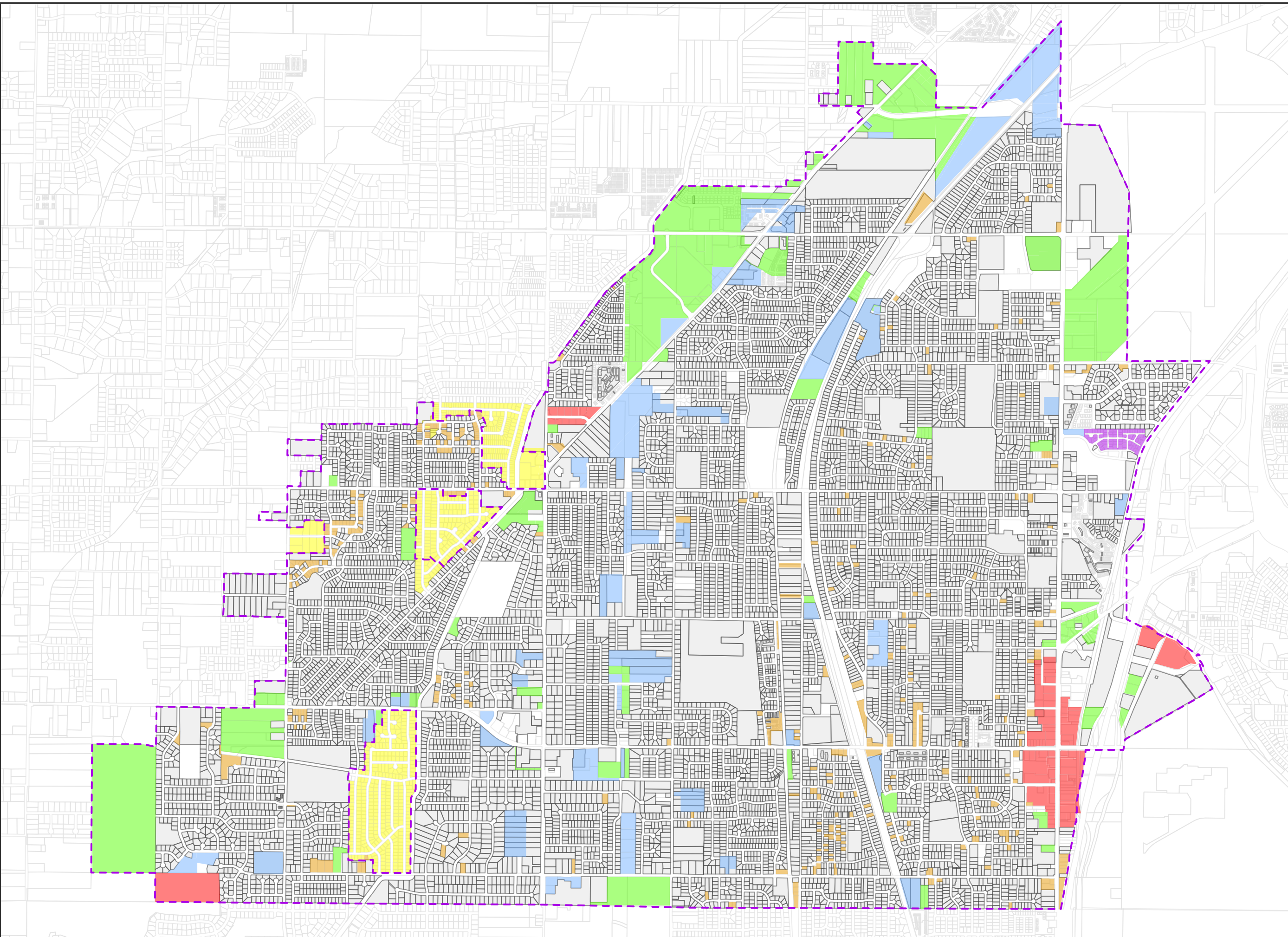
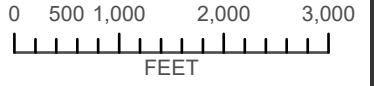
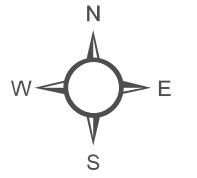


EXHIBIT 3-3

FUTURE SERVICE PRESSURES

PEAK HOUR



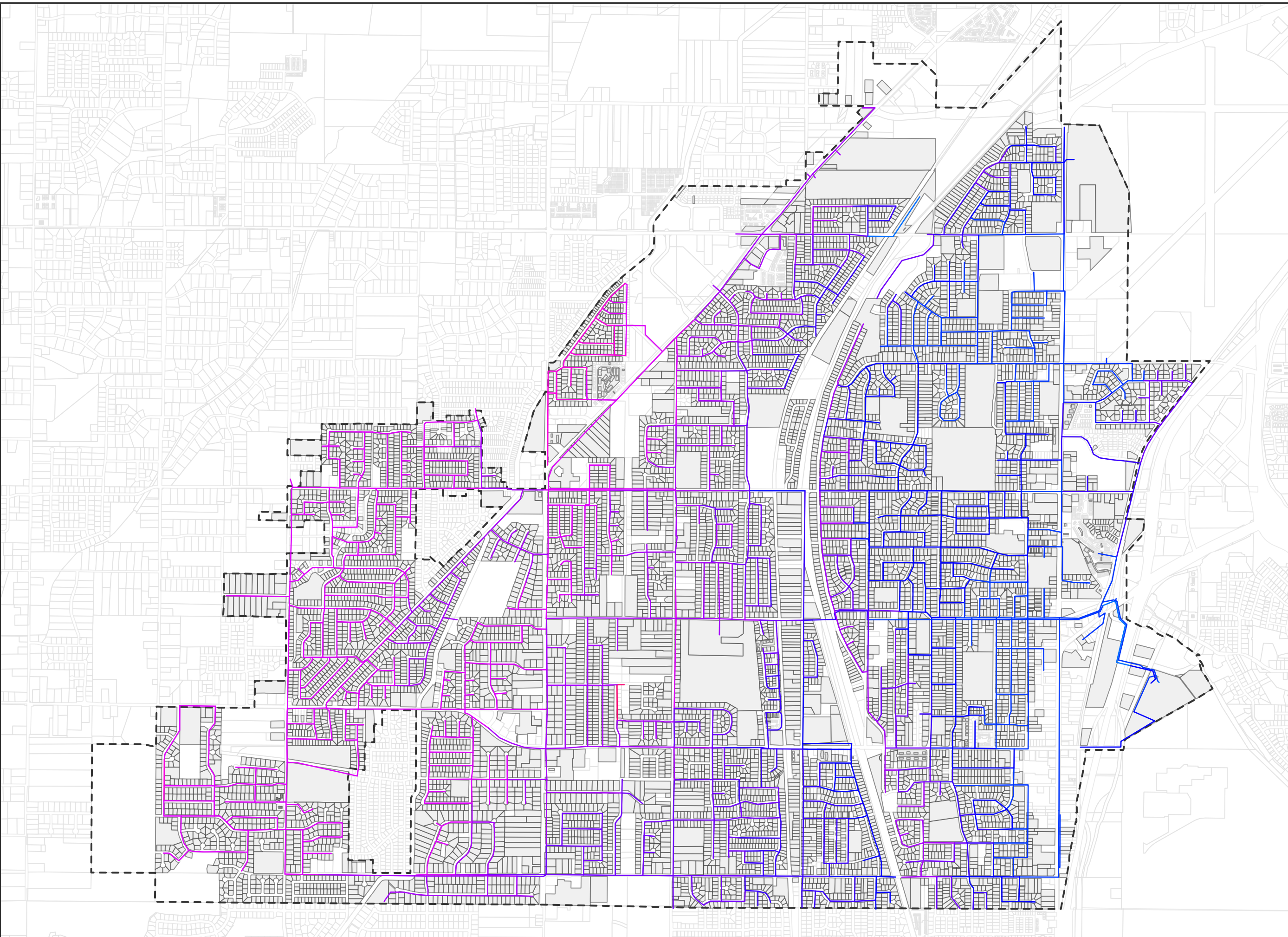


**LEGEND**

- RWCD Boundary
- RWCD Served Tax Parcels

**PIPELINE PRESSURE [ PSI ]**

- 1-40
- 41-50
- 51-60
- 61-70
- 71-80
- 81-90
- 91-100
- 101-110
- 121-130



**EXHIBIT 3-3**  
**FUTURE SERVICE PRESSURES - PHD**

## SECTION 4

# HYDRAULIC ANALYSIS

## SECTION 4

### HYDRAULIC ANALYSIS

---

#### Introduction

The purpose of a Water Distribution System is to deliver water to individual users in an adequate amount and at a satisfactory pressure; accordingly, the system should be capable of delivering the maximum instantaneous design flow at an appropriate pressure at every existing and proposed service connection. Since the distribution system often represents the bulk of the capital investment for a water supply system, it is necessary to consider “worst case scenarios” when analyzing its capabilities. This analysis and design approach minimizes the need for future upgrades and potential “piecemeal” replacements.

#### Analysis

Hydraulic analysis of a large, pressurized water system is a fairly complex and tedious process which usually involves the use of the Hazen-Williams or Darcy-Weisbach equations to determine frictional head losses in the various pipes and appurtenances for existing and future design flow rates. The evaluation is made significantly more manageable through use of rapidly improving hydraulic modeling algorithms and software.

For the purposes of this study, Bentley Open Flows WaterCAD CONNECT Edition Update 4 was employed to facilitate the evaluation and design of the secondary water distribution system for Roy Water Conservancy District. WaterCAD is an AutoCAD compatible program for design and analysis of pressurized pipe distribution systems. For this analysis, the pressure networks were solved by using the Hazen-Williams formula and the global gradient algorithm (GGA). The Hazen-Williams formula is an empirical equation used to determine pipe flow rates in closed conduits, or if flow rates are known, it can be used to calculate frictional head losses.

The equation requires input of a pipe roughness coefficient “C” because head loss is greatly effected by the interior condition of a pipe. Roughness coefficients range in value from approximately 150 for a very smooth new pipe to 80 for badly corroded cast iron or steel pipes. Initial “C” values between 120 and 150 were used in this study; however, values were adjusted to calibrate the model to meet known field conditions. Although future pipes will have considerably higher roughness coefficients, a “C” of 120 will be used for future design modeling as it has been found to be typically the average of existing system coefficients for similar distribution networks. Consequently, this “C” value takes future pipe deterioration into consideration and provides a moderate safety factor for design.

Two basic elements of a pipe system geometry are Pipes and Nodes. A pipe is a constant diameter section which can contain elbows, bends, valves, pumps, etc. Nodes are the end points of a pipe and can be categorized as junction (JCT) nodes or boundary (BND) nodes. Junction nodes include pipe intersections where demands such as industry, residential clusters, or otherwise critical points in the system exist. A boundary node is a point where the hydraulic grade is defined. For this analysis, the BND nodes are considered as static nodes with the hydraulic grade line of the gravity fed system (Lower Zone) set to the typical water surface elevation of the reservoir, and the pumped system (Upper Zone) set to the pumped head plus the typical water surface elevation of the reservoir.

The computer model of Roy Water Conservancy District's secondary water system was developed by first creating the "existing system" pipe network on a base map of Roy City as well as portions of Hooper City and West Haven City. The elevations of the nodes were read from a digital contour map and entered into the model. Demands at each junction node were then entered into the model by counting the number of lots being supplied by each node, determining the lot size and estimating the irrigable acreage, and applying a demand factor to represent the amount of water used by each lot, in gallons per minute (gpm).

Where schools, churches, commercial areas, etc. were encountered, the land was converted to "Equivalent Residential Units, ERUs", as defined in previous sections. ERUs for undeveloped ground (used for modeling the future system) were determined by using an ERU/acre conversion factor. The conversion factor for each parcel of undeveloped ground differed from parcel to parcel depending on the anticipated land use. Exhibit 4-1 "Pipe Network Model", presents the elements of the model and their respective location within the study area. Demands, minor losses, and friction coefficients were adjusted throughout the system until the model of existing conditions represented pressures measured in the field. This portion of the modeling process is termed "calibrating". Once the model was able to simulate the existing system, various tests were run to assess system deficiencies and to adequately design for future growth.

The District has an extensive Geographic Information System (GIS) that is further discussed in Section 5 of this report. The GIS system and the data collected was used in updating the model with updated pipe sizes and materials observed in the system.

As a guideline to design for future growth, the State of Utah, Division of Drinking Water recommends distribution pipelines be able to sufficiently deliver water to meet peak instantaneous demands at sufficient pressure to every existing and proposed service connection. Peak instantaneous demand is commonly referred to as the peak hourly demand (PHD) and is defined as the highest average rate of water use, that can be expected to occur within a defined service area over a continuous sixty-minute time period. Additionally, the minimum design pressure goal for the study area was 40 psi at PHD.

As more than one pressure zone exists, each PHD value needed to be calculated separately for each zone and analyzed appropriately. PHD values for this update determined from the District's metered water use records from April 15<sup>th</sup> to October 15<sup>th</sup> during the years 2008, 2009 and 2010. The congruous water use data was analyzed for minimum, mean, and peak day usage; peak hour demands were taken directly from flow records from the water usage for the Upper and Lower Zones, respectively. Due to the present drought and water regulations in place, the 2010 water records provided a larger stress to the system and were thus used.

The average PHD for both the upper and lower zones during the years indicated was determined to be 23 and 45 cfs, respectively. Dividing these values by the number of "equivalent lots" in the existing system and applying the appropriate conversions, the PHD for the Upper and Lower Zone "equivalent lot" were assigned values of 2.4 and 2.9 gpm, respectively. These values plus the wheel-through flows were used to evaluate the existing pipe network and design future improvements. The model was used to determine flows and pressures in the existing and future pipe network distribution systems under a variety of operating conditions. These scenarios included static, average day, peak day, and peak hour conditions. For the purposes of this study only the average day and peak hour scenarios are presented. The modeling program generated tabular as well as graphical pressure contour line results for each of the scenarios and alternatives analyzed.

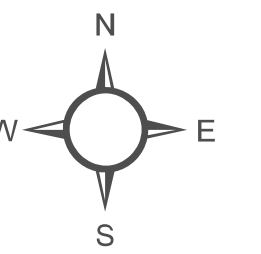
The pressure contour lines were evaluated to assess the performance of the existing and future secondary water distribution system. Pipe line flows were also reviewed to ensure velocities were within reasonable rates. Graphical results of these pressure contour lines are contained in Section 2, "Existing Secondary System" and Section 3, "Capital Facilities Plan"; and are presented therein as Exhibits 2-1, 2-2 and 3-2. The tabulated results of the computer model for the existing and well as the future peak hour conditions are included hereafter.



## EXHIBIT 4-1

# PIPE NETWORK MODEL





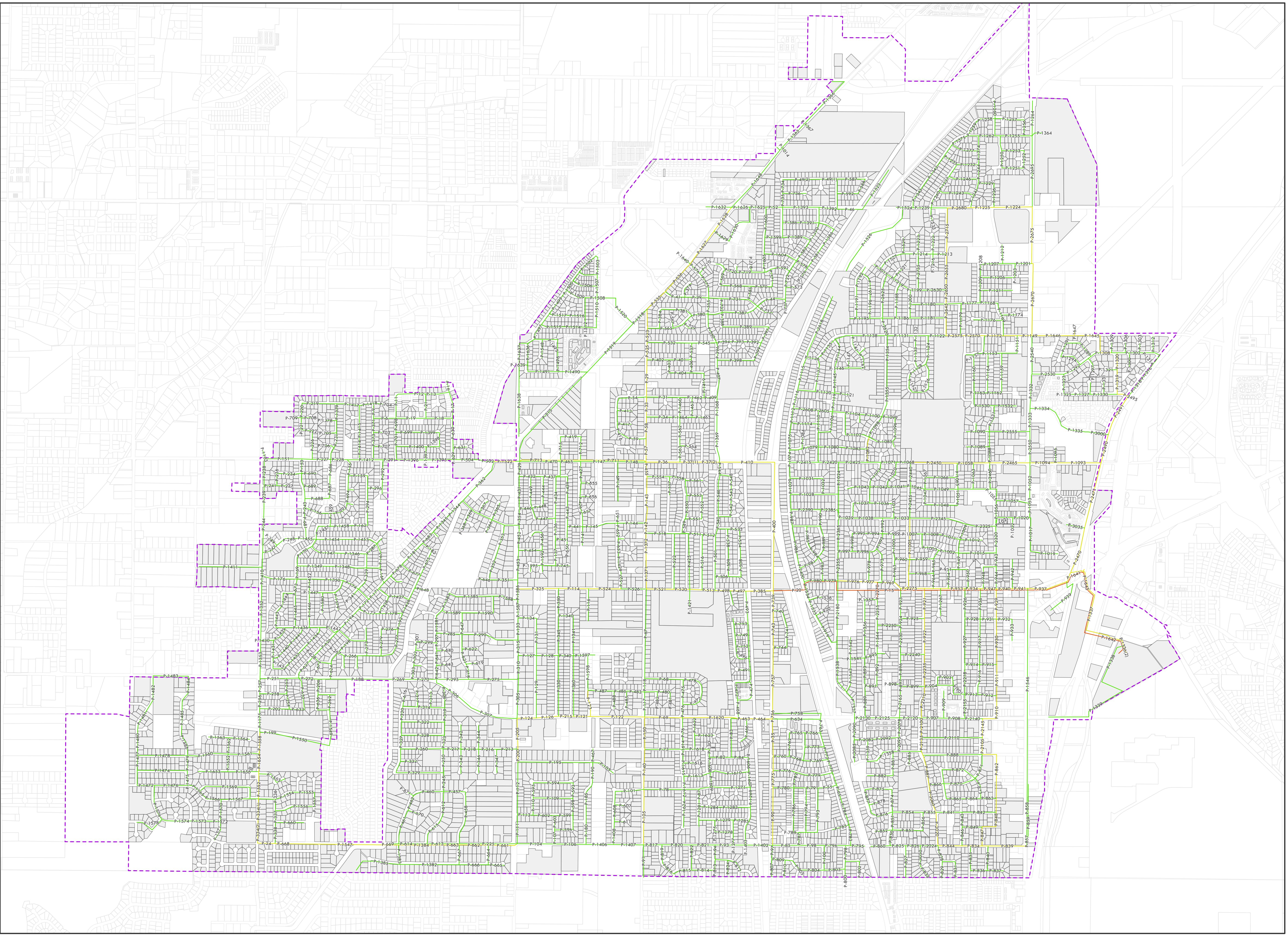
0 500 1,000 2,000  
 Feet

**LEGEND**

- RWCD Boundary
- RWCD Serviced Tax Parcels

**IRRIGATION PIPE SIZES**

- 1" - 10"
- 12" - 30"
- 36" +



**EXHIBIT 4-1**

**EXISTING PIPE NETWORK MODEL**



## SECTION 5

# CAPITAL ASSET MANAGEMENT PLAN



## SECTION 5

### CAPITAL ASSET MANAGEMENT PLAN

---

#### **Introduction**

Capital asset management planning is the process of identifying current and future capital needs and developing strategies and projects to address those needs.

#### **System Analysis**

The district has started inventorying the secondary water system in a Geographic Information System (GIS). ESRI's ArcMap and ArcGIS has been used to collect and inventory the existing system as the system is maintained. GIS allows for periodic updates to the components as information is gathered. GIS system is a versatile tool that can be utilized in asset management moving forward as it allows for logging installation dates, inspection logs, repair history, and quantitative and predictive analysis.

The GIS data reports 178 Air Vacs, 209 Drain Valves, 877 Meters, and 133 miles of pipelines. Table 5-1 shows the breakdown of the pipe diameter by pipe material from the GIS database. The unknown material is assumed to be AC pipe, but more information is needed. There are about 58 miles of pipe smaller than 8 inches and about 15 miles of PVC pipe in the pipeline system.

#### **Maintenance, Repair, and Replacement**

Section 3 of this report details the present Capital Facilities Plan with an estimate of costs. The plan details systematic main line valve replacements, meter installation, regular secondary waterline replacement, and reservoir repair.

With pipeline replacement being the largest estimated annual cost, planning a regular replacement schedule would help with maintenance. When assuming a 50-year lifespan of pipe, the system would need an annual replacement schedule of 2.7 miles per year if the pipe is newly installed.

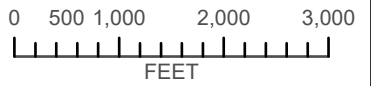
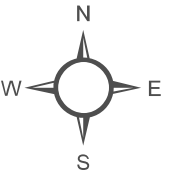
Before the year 2030, the secondary water system will need to be fully metered. The life expectancy of water meters is about 20-years. It is important to note that between the years 2033-2060 the water meters will need to be replaced.

Table 5-1: GIS Pipe Inventory Lengths

Diameter [in]	Unknown Material [ft]	Steel [ft]	AC [ft]	PVC [ft]	Poly [ft]	DI [ft]	HDPE [ft]	Shotcoat [ft]	All Materials [ft]	All Materials [mi]
≤ 2	-	617	-	-	323	-	-	-	940	0.2
4	128,962	-	26,802	10,680	-	3	-	-	166,447	31.5
6	98,691	-	3,574	34,548	-	-	117	-	136,930	25.9
8	175,740	-	14,031	18,072	-	-	121	-	207,964	39.4
10	71,316	-	5,778	12,343	-	-	342	-	89,779	17.0
12	27,406	-	3,369	2,261	-	-	-	-	33,036	6.3
14	4,915	-	184	1,646	-	-	-	-	6,745	1.3
16	6,812	-	-	-	-	-	-	4,440	11,251	2.1
18	13,391	-	-	60	-	3,246	-	2,612	19,310	3.7
24	4,651	-	-	-	-	3,215	-	2,609	10,476	2.0
30	3,622	-	-	-	-	-	-	3,942	7,563	1.4
36	1,755	-	-	-	-	-	205	-	1,961	0.4
42	4,876	-	-	-	-	-	-	-	4,876	0.9
48	636	347	-	-	-	-	-	1,709	2,692	0.5
54	-	-	-	-	-	-	209	-	209	0.04
66	-	353	-	-	-	-	-	-	353	0.1
Total [ft]	542,773	1,317	53,738	79,611	323	6,465	994	15,312	700,534	-
Total [mi]	102.8	0.2	10.2	15.1	0.1	1.2	0.2	2.9	-	132.7

## EXHIBIT 5-1

# PIPELINE REPLACEMENT PLAN

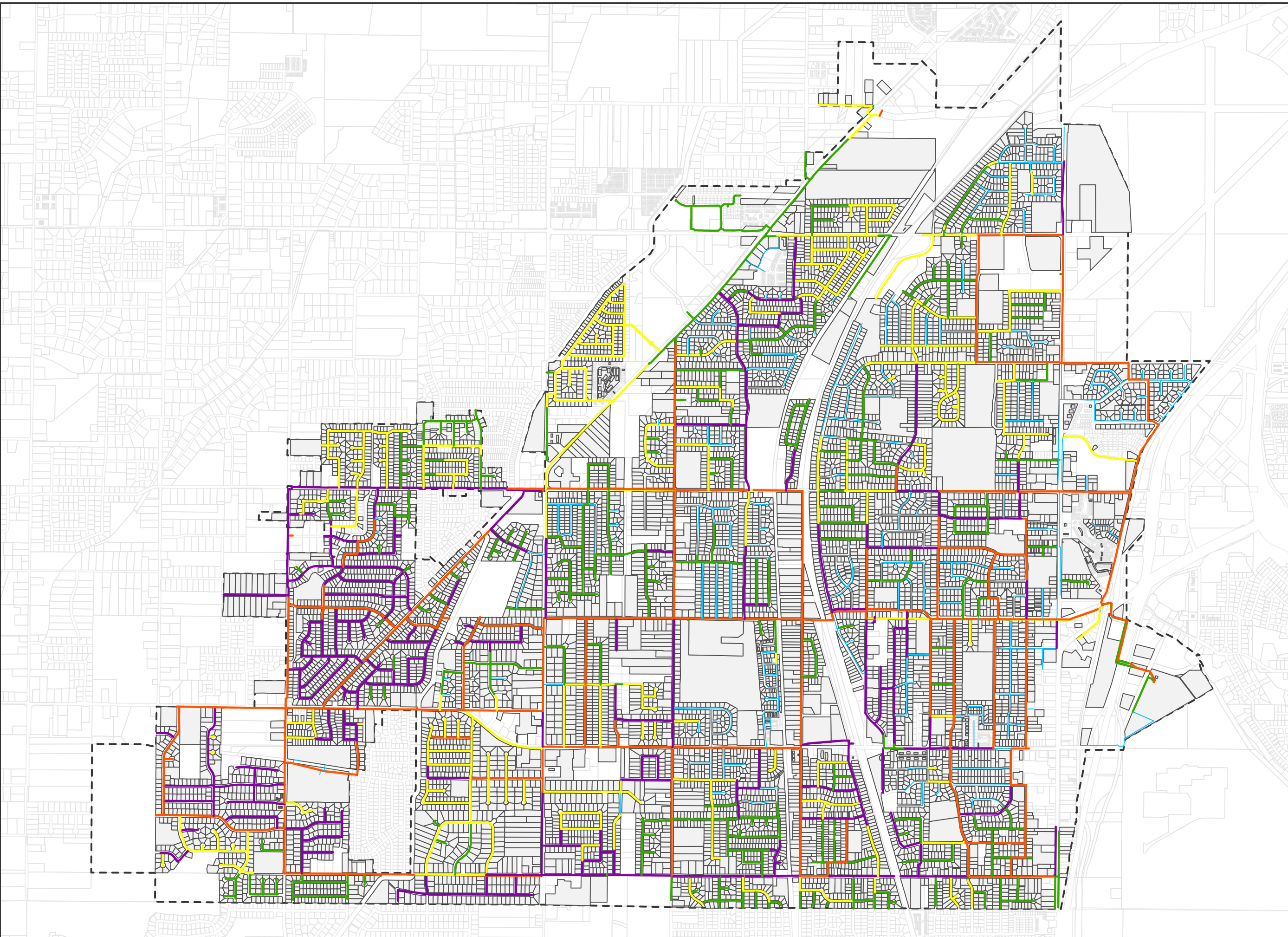


**LEGEND**

- RWCD Boundary
- RWCD Served Tax Parcels

**REPLACEMENT YEAR**

- 2040
- 2050
- 2060
- 2070
- TBD



**EXHIBIT 5-1**  
**PIPELINE**  
**REPLACEMENT PLAN**

# EXISTING SYSTEM DATA

# MODEL WASATCH CIVIL DATA

# MEMORANDUM

TO: Board of Trustees

FROM: Rodney Banks, Manager

DATE: November 4, 2022

SUBJECT: **IV.D. Consideration of DWRe Contract for Secondary Water**

---

The attached contract is for the \$10 million grant portion of the secondary water metering project.

A suggested motion would be, “I move that we approve State of Utah Contract 231013 for the secondary water metering project with the Division of Water Resources (DWRe).”



STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES

Copies:  
WRE  
Applicant  
Finance

**DIVISION OF WATER RESOURCES**

**Contract No.**  
  
**231013**

Date 25 October 2022

Vendor No. 36782A TIN 87-0288572

Vendor **ROY WATER CONSERVANCY DISTRICT**

Address 5440 FREEWAY PARK DRIVE

City, State Zip RIVERDALE, UT 84405

c/o Rodney Banks Phone 801-825-9744

Commodity Code 99999 Payable X Receivable         

Description: The project will purchase and install secondary meters, in and around Section 14, T5N, R2W, Salt Lake Base & Meridian.

Advances:	Repayment:
Frequency <u>As Requested</u>	Interest/Term <u>        </u> % <u>        </u> Years
Amount <u>Variable</u>	Amount <u>        </u>
Total <u>\$10,000,000 (70%)</u>	Beginning <u>        </u>
Less Admin Fee <u>        </u>	Effective Date <u>10/25/2022</u>
Net Payable Amount <u>\$10,000,000</u>	Expiration Date <u>12/31/2026</u>

Fund	Dept	Unit	Approp Unit	Balance Sheet	Expend/ Revenue	Program	Function	Activity	Total Amount
1000	560	6207	RPG		7501	RM006	ARPA		\$10,000,000

Approved STG MDE SGD JRW JSE CAH KRS

Russell Hadley  
Monitor

Russell Hadley  
Signature



**AGREEMENT**  
**(Secondary Meter Grant)**

STATE OF UTAH AGREEMENT # 231013

1. PARTIES TO AGREEMENT: This agreement is between the State of Utah, Department of Natural Resources, BOARD OF WATER RESOURCES, referred to as STATE, and the following RECIPIENT:

ROY WATER CONSERVANCY DISTRICT  
5440 FREEWAY PARK DRIVE  
RIVERDALE, UT 84405

Legal Status of Recipient:  
 Sole Proprietor  
 Non-Profit Corporation  
 For Profit Corporation  
 Partnership  
 Governmental Agency

Phone #: 801-825-9744 Federal Tax ID#: 87-0288572 Vendor #: 36782A

2. GENERAL PURPOSE OF AGREEMENT: The general purpose of this agreement is to provide grant funds for partial payment of costs incurred to purchase and install approximately 6,000 secondary meters ("PROJECT").

3. AUTHORITY: This agreement is entered into by authority of legislation enacted by the 2022 Utah State Legislature.

4. AGREEMENT PERIOD: Agreement is effective October 25, 2022 and will terminate December 31, 2026 unless otherwise terminated or extended in accordance with the terms and conditions of this agreement.

5. GRANT AMOUNT: The RECIPIENT will be paid a maximum of \$10,000,000 for costs authorized by this agreement.

6. METHOD OF PAYMENT: a. Payment to the RECIPIENT shall be made approximately monthly upon receipt by the STATE of statements or vouchers for payment of work completed. b. The STATE shall pay 70% of the eligible costs incurred.

7. ATTACHMENTS INCLUDED AS A PART OF THIS CONTRACT:  
Attachment A – Typical Section Drawings

8. The RECIPIENT hereby warrants the STATE that the construction of the PROJECT will not interfere with existing water rights. If the PROJECT herein described shall give rise to a claim, or cause of action to any holder of any water rights because of the interference with such rights by the operation of the PROJECT, then the RECIPIENT hereby agrees to indemnify the STATE to the extent of such claim or cause of action.

9. A. In constructing or causing the PROJECT to be constructed, the RECIPIENT shall comply with the provisions of the Utah Anti-Discrimination Act (Act) of 1965 and hereby agrees as follows:

1. The RECIPIENT will not discriminate against any employee or applicant for employment because of race, color, sex, age, religion, national origin, or handicap.
2. In all solicitations or advertisements for employees, the RECIPIENT will state that all qualified applicants will receive consideration without regard to race, color, sex, age, religion, national origin, or handicap.
3. The RECIPIENT will send to each labor union or workers' representative notices stating the RECIPIENT'S responsibilities under the Act.

4. The RECIPIENT will furnish such information and reports as requested by the Anti-Discrimination Division for the purpose of determining compliance with the Act.
5. The RECIPIENT will include the provisions of sub-sections 1 through 4 above in every subcontract or purchase order so that such provisions will be binding upon such subcontractor or vendor unless exempted by law.

B. Failure of the RECIPIENT to comply with the statute, the rules and regulations promulgated thereunder and this non-discrimination clause shall be deemed a breach of this contract and may be canceled, terminated or suspended in whole or in part.

10. If either party to the contract violates any of the conditions or covenants made herein, the other may give written notice of such breach or failure, and if the same shall not be cured within Ninety (90) days after such notice, the other may declare the contract forfeited and may proceed to its remedies at law for such breach.

11. The RECIPIENT hereby agrees to indemnify and hold harmless the STATE and its officers, agents and employees from any and all liability or claims in connection with this agreement or the development, design, inspection, construction, or operation and maintenance of the PROJECT, including, but not limited to, any and all claims for injury or death of persons or animals, or for any property loss or damage, including damage to the project facilities; except for any such claims arising from or caused by the sole negligence of the STATE.

12. It is mutually understood that the STATE'S review of the plans and specifications, bidding documents and general conditions is solely for the purpose of assuring that the PROJECT to be constructed by the RECIPIENT is as represented in its application and that the PROJECT meets the STATE'S lending criteria. Neither the STATE or officers, employees, or agents thereof shall have any duty to note any design or other defect relating to the PROJECT, and none shall be liable for any loss, claim or damages with respect to the design, bidding, construction, maintenance or operation of the PROJECT or any water system of which the PROJECT is a part.

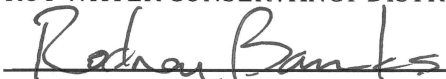
13. This agreement, or any part thereof, or the benefits to be received under this agreement, may not be the subject of any assignment to any person, firm, or corporation, by the said RECIPIENT, without first having secured the written consent of the STATE to any such proposed assignment or disposition of this agreement.

14. The RECIPIENT hereby agrees, in accordance with Utah Code 73-10-34.5, to provide an educational component for end users either on a monthly use statement, or by a customer specific Internet portal that provides information on the customer's usage more frequently than monthly.

15. DOCUMENTS INCORPORATED INTO THIS CONTRACT BY REFERENCE BUT NOT ATTACHED: All other governmental laws, regulations, or actions applicable to the services authorized by this agreement.

IN WITNESS WHEREOF, the parties sign and cause this agreement to be executed.

ROY WATER CONSERVANCY DISTRICT

  
\_\_\_\_\_

Manager

  
\_\_\_\_\_

~~Secretary~~ District Clerk

BOARD OF WATER RESOURCES

  
\_\_\_\_\_  
Kyle R. Stephens (Oct 14, 2022 11:15 MDT)

Chairman

  
\_\_\_\_\_

Executive Secretary

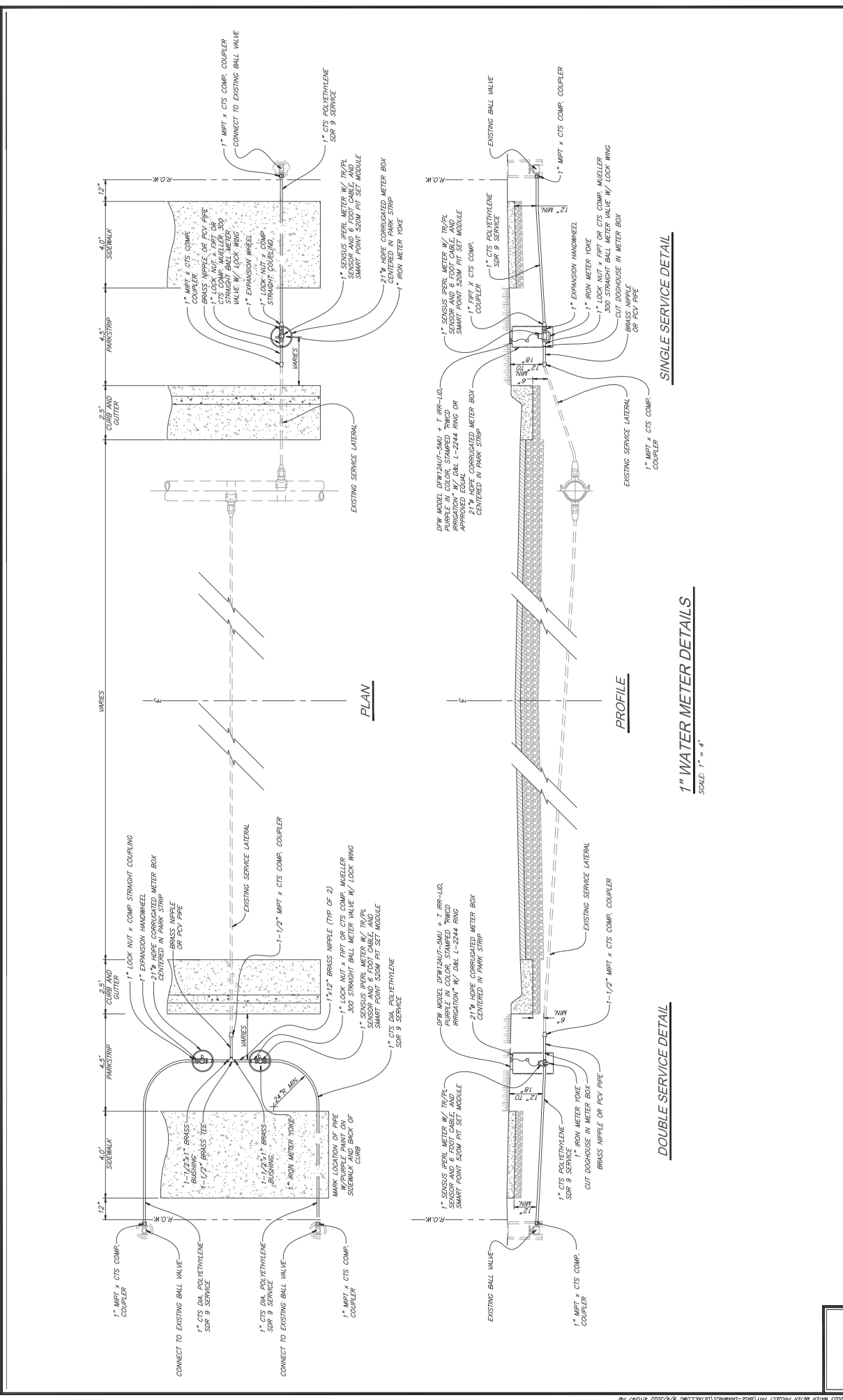
  
\_\_\_\_\_

Division Budget/Accounting

APPROVED: DIVISION OF FINANCE

RECEIVED AND PROCESSED  
BY DIVISION OF FINANCE 10/25/22

For Director



**SINGLE SERVICE DETAIL**

**1" WATER METER DETAILS**  
SCALE: 1" = 4"

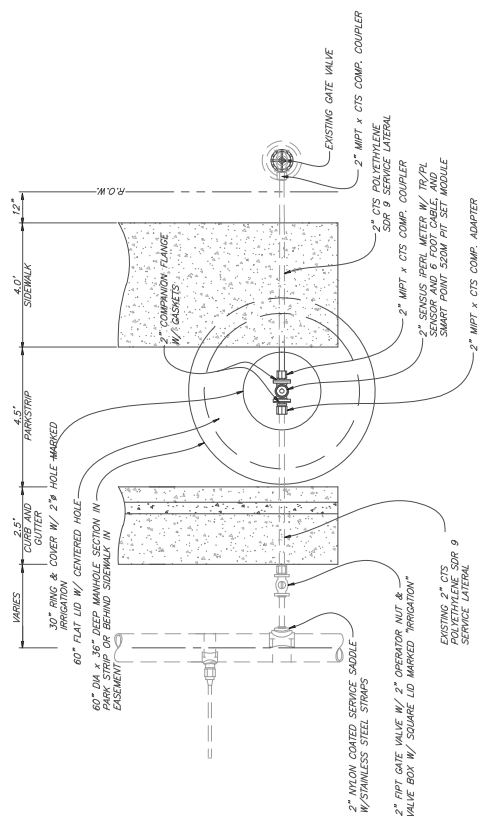
**DOUBLE SERVICE DETAIL**

REV:	DATE:	APPROV:

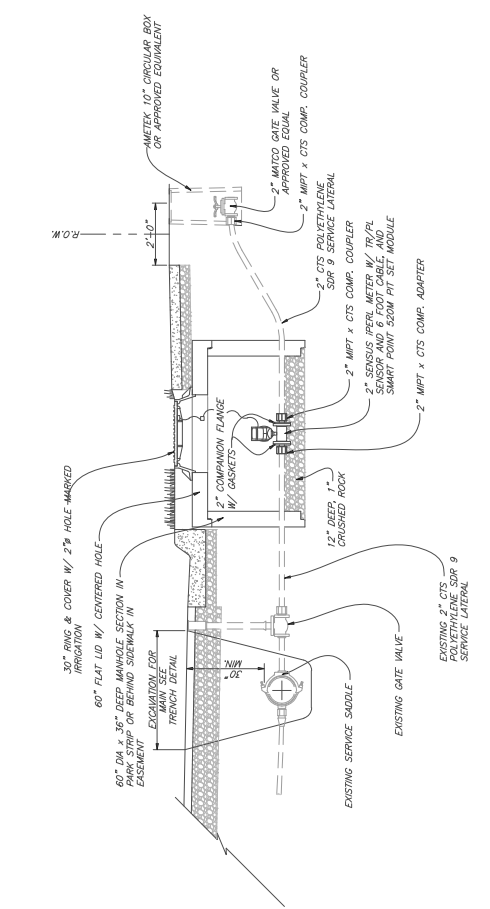
**WC WASATCH CIVIL**  
*Consulting Engineering*

11000 N. HAVASUPAI AVENUE  
PHOENIX, AZ 85028  
(602) 941-8418

P:\04-WM03-100-INTERIORS WATER METER PROJECT PH1\BKS-04\DWG\PLAN\1" SECONDARY WATER METER CONNECTION DETAIL.rvt 8/2/2022 4:10:47 PM



**PLAN**



**PROFILE**

**2" SINGLE METER DETAIL**

SCALE: 1" = 4'  
FOR LOT SIZES FROM 3.01 AC. TO 7.50 AC.

**WC**  
**WASATCH CIVIL**  
Consulting Engineering  
11000 N. 150th Ave., Suite 200  
Denver, CO 80230  
(303) 440-1010

DESIGNED: B.C.L.  
DRAWN: I.B.L.  
CHECKED: B.C.L.  
DATE: JUL 27, 2022  
SCALE: AS SHOWN

ROY WATER  
CONSERVANCY  
DISTRICT

SECONDARY WATER METER PROJECT, PHASE 4  
**2" SECONDARY WATER METER  
CONNECTION DETAIL**

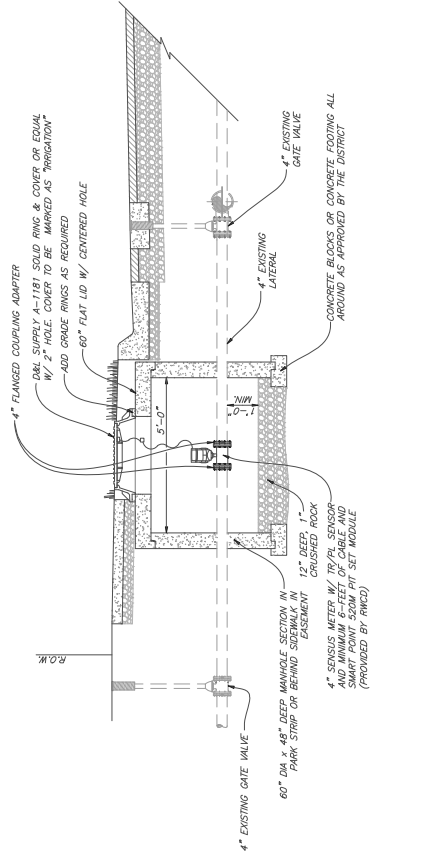
PROJECT DRAWING STAMP

174-0002-100-INTERIOR METER PROJECT PLAN (REV. 8/2022) 6/10/21 174-0002-100-INTERIOR METER PROJECT PLAN (REV. 8/2022) 6/10/21 174-0002-100-INTERIOR METER PROJECT PLAN (REV. 8/2022) 6/10/21

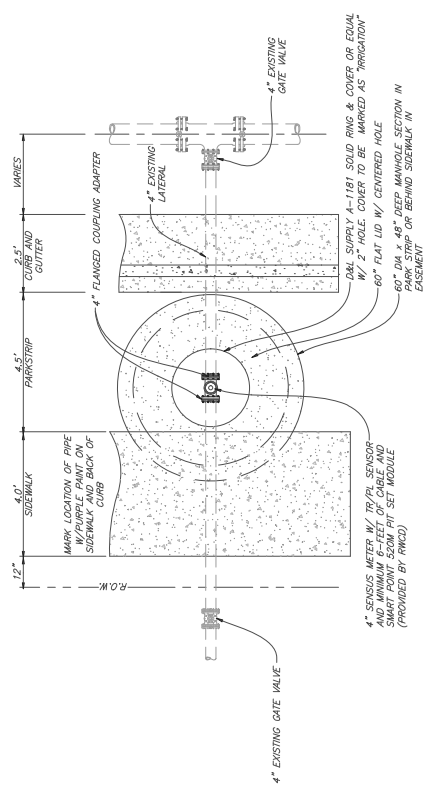
REV.	DATE	APPROV.

**WC**  
**WASATCH CIVIL**  
*Consulting Engineering*  
11000 N. 100th Ave., Suite 100  
Greenwood, UT 84054 (801) 225-1919

PROJECT ENGINEER'S STAMP



PROFILE



PLAN

4" SINGLE METER DETAIL

SCALE: 1" = 4"  
FOR LOT SIZES FROM 7.51 AC. & ABOVE

# MEMORANDUM

TO: Board of Trustees

FROM: Rodney Banks, Manager

DATE: November 4, 2022

SUBJECT: **IV.E. Consideration of Voting Davis and Weber Counties Canal Company Stock at Annual D&WCCC Stockholders Meeting**

---

The Davis & Weber Counties Canal Company (D&WCCC) has their annual stockholders meeting scheduled for December 15, 2022, at 6:30 p.m. In previous years, the board has appointed the Chair to vote the District's stock and Vice-Chair and General Manager as alternates in case the Chair is unable to vote the District's shares.

A suggested motion would be, "I move that we appoint the Chair to vote the District's Davis & Weber Counties Canal Company stock and appoint the Vice-Chair and General Manager as alternates."

# MEMORANDUM

TO: Board of Trustees

FROM: Rodney Banks, Manager

DATE: November 9, 2022

SUBJECT: **V.C. Manager and Trustees Reports**

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---

The following is a reminder of upcoming meetings and events:

Board Meeting – November 9, 2022, at 5:00 p.m.  
Christmas Party – December 5, 2022, at 6:00 p.m. at Timbermine  
Board Meeting – December 14, 2022, at 5:00 p.m.  
Public Hearing for Allotment of Water – December 14, 2022, at 6:00 p.m.  
Public Hearing for 2023 Budget – December 14, 2022, at 6:00 p.m.  
D&WCCC Stockholders Meeting – December 15, 2022, at 6:30 p.m.

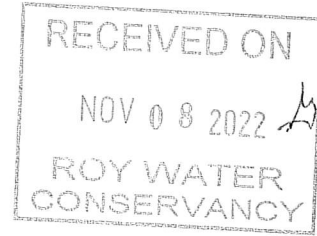
The Board of Water Resources committed bond funds at their October 27<sup>th</sup> Board of Water Resources meeting. Now we are in the process of finishing the documents to close on the bond.

As of November 8<sup>th</sup>, East Canyon is 53% full, Echo Reservoir is 54% full, and the Weber River basin precipitation is 117% of median. Currently almost 94% of the state of Utah is in severe to exceptional drought condition. As of January 4, 2022, the District's boundaries were moved to the severe drought category.



**INTERNAL AUDIT REPORT**

**NOVEMBER 08, 2022**  
(OCTOBER 31, 2022, STATEMENTS)



- | YES                                 | No                       |  |
|-------------------------------------|--------------------------|--|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 1. Obtain bank statements unopened.  |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 2. Review checks for unusual payees.   |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3. Review signatures on checks for authenticity.   |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 4. Review any cash transfers or large debit memos for property.  |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 5. Question any large or unusual checks that you do not remember discussing or approving.                  |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 6. Summarize your questions.   |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 7. Distribute the report to board members, Child Richards CPAs & Advisors, Rodney Banks, and Linda Toupin. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 8. Obtain replies to questions from Rodney Banks and distribute with the report.                           |

**COMMENTS:** \_\_\_\_\_

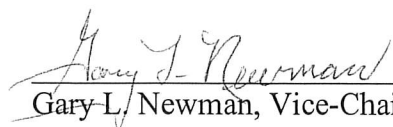
**Bank of Utah**

- Account No. \*\*\*\*0122: \_\_\_\_\_
- Account No. \*\*\*\*1928: \_\_\_\_\_
- Account No. \*\*\*\*0846: \_\_\_\_\_

**PTIF**

- Account No. \*\*\*\*1141: \_\_\_\_\_
- Account No. \*\*\*\*2340: \_\_\_\_\_

I have completed the above procedures for the month of November 08, 2022 (October 31, 2022 Statements).

  
\_\_\_\_\_  
Gary L. Newman, Vice-Chair

**ZION BANK PURCHASE CARDS  
INTERNAL AUDIT REPORT**


**NOVEMBER 08, 2022,**  
(OCTOBER 31, 2022 STATEMENTS)

- | YES                                 | NO                       |  |
|-------------------------------------|--------------------------|--|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 1. Obtain purchase card statements.  |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 2. Review statements for unusual charges.  |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3. Review receipts for charges.  |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 4. Question any large or unusual charges not previously discussed or approved during board meeting.        |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 5. Summarize your questions.   |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 6. Distribute the report to board members, Child Richards CPAs & Advisors, Rodney Banks, and Linda Toupin. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 7. Obtain replies to questions from Rodney Banks and distribute with the report.                           |

**COMMENTS:** \_\_\_\_\_

- 
1. Zions Bank Control Account: \_\_\_\_\_
  2. Purchase Card - Ohlin: \_\_\_\_\_
  3. Purchase Card – Newman: \_\_\_\_\_
  4. Purchase Card - Adams: \_\_\_\_\_
  5. Purchase Card – Ritchie: \_\_\_\_\_
  6. Purchase Card – Zito: \_\_\_\_\_
  7. Purchase Card - Banks: \_\_\_\_\_
  8. Purchase Card - Durbano: \_\_\_\_\_
  9. Purchase Card - Thurgood: \_\_\_\_\_
  10. Purchase Card – Doxey: \_\_\_\_\_
  11. Purchase Card - Sandberg: \_\_\_\_\_
  12. Purchase Card - Toupin: \_\_\_\_\_
  13. Purchase Card - Harris: \_\_\_\_\_

I have completed the above procedures for the month of November 08, 2022 (October 31, 2022 Statements).

  
\_\_\_\_\_  
Gary L. Newman, Vice-Chair

## FINANCIAL REPORT

• NOVEMBER 2022 •

### GENERAL FUND

<u>PREVIOUS MONTH</u>	<u>2022</u>	<u>2021</u>	<u>2020</u>
Balance as of October 1	\$ 328,548.35	\$ 178,751.78	\$ 159,567.99
Deposits	\$ 401,876.04	\$ 526,520.65	\$ 468,430.56
Interest on checking	\$ 813.76	\$ 74.34	\$ 153.29
Withdrawals	\$ 573,926.56	\$ 497,191.24	\$ 104,729.51
Balance	\$ 157,311.59	\$ 208,155.53	\$ 523,422.33
<b><u>TO DATE</u></b>			
Balance as of November 1	\$ 157,311.59	\$ 208,155.53	\$ 523,422.33
Deposits	\$ 222,366.12	\$ 122,881.33	\$ 82,659.23
Withdrawals	\$ 145,032.67	\$ 132,242.26	\$ 84,509.28
Balance	\$ 234,645.04	\$ 198,794.60	\$ 521,572.28

### CAPITAL FACILITIES FUND

	<u>2022</u>	<u>2021</u>	<u>2020</u>
Balance as of October 1	\$ 123,917.99	\$ 121,688.22	\$ 259,881.07
Deposits	\$ -	\$ -	\$ -
Interest on checking	\$ 246.21	\$ 30.14	\$ 120.47
Withdrawals	\$ -	\$ -	\$ -
Balance	\$ 124,164.20	\$ 121,718.36	\$ 260,001.54
<b><u>TO DATE</u></b>			
Balance as of November 1	\$ 124,164.20	\$ 121,718.36	\$ 260,001.54
Deposits	\$ -	\$ -	\$ -
Withdrawals	\$ -	\$ -	\$ -
Balance	\$ 124,164.20	\$ 121,718.36	\$ 260,001.54

### WEBER BASIN FUND

	<u>2022</u>	<u>2021</u>	<u>2020</u>
Balance as of November 1	\$ 489,894.01	\$ 385,676.77	\$ 301,174.87

### CONNECTIONS

	<u>2022</u>	<u>2021</u>	<u>2020</u>
Connections made during the previous month (October)	0	0	2
Total connections made during the current year	13	26	113
Total active connections	10,809	10,796	10,768

### SHARES

	<u>2022</u>	<u>2021</u>	<u>2020</u>
Shares of D&WCCC Water Stock to date:	1,515.0	1,512.5	1,512.5
Shares of D&WCCC Water Stock leased to date:	144.0	144.0	144.0
Shares of Wilson Irrigation Stock to date:	21.5	21.0	20.5

### UTAH PUBLIC TREASURER'S INVESTMENT FUND

#### • OPERATIONS & MAINTENANCE ACCOUNT •

		<u>RATE</u>	<u>DATE</u>
Balance as of October 1	\$ 3,630,368.12	2.8614%	Ongoing-Flexible
Deposits (by Weber County)	\$ 18,628.60		
Interest	\$ 8,324.44		
Withdrawals (by wire)	\$ 376,399.17		
Balance	\$ 3,280,921.99		

#### • METER FUND ACCOUNT •

		<u>RATE</u>	<u>DATE</u>
Balance	\$ 182,318.49	2.8614%	Ongoing-Flexible

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11/09/22

ROY WATER CONSERVANCY DISTRICT  
O&M Checks  
November 9 - 10, 2022

	Num	Name	Amount
Nov 9 - 10, 22			
	20016	Chad Zito	-\$275.01
	20017	Gary L. Newman	-\$200.01
	20018	Gary S. Adams	-\$275.02
	20019	Jon S. Ritchie	-\$200.01
	20020	Mark W. Ohlin	-\$275.01
	20021	Ace Recycling & Disposal	-\$146.06
	20022	Advantage Pawn & Rental	-\$1,729.65
	20023	Blue Stakes of Utah	-\$454.50
	20024	Clear Link IT, LLC	-\$1,655.00
	20025	Clyde Snow & Sessons	-\$3,135.00
	20026	Clyde Snow & Sessons	-\$510.00
	20027	Comcast	-\$711.90
	20028	Dominion Energy	-\$56.90
	20029	Eriks NA, Inc.	-\$26.58
	20030	Ferguson Enterprises	-\$90,520.25
	20031	Fuel Network	-\$1,638.50
	20032	Home Depot	-\$105.42
	20033	J. D. Young & Son Landscape	-\$2,053.00
	20034	Jan-Pro of Utah	-\$215.00
	20035	Linde Gas & Equipment, Inc.	-\$39.46
	20036	Opticare Vision Services	-\$96.30
	20037	PEHP Group Insurance	-\$12,448.26
	20038	Riverdale City Corporation	-\$162.05
	20039	Rocky Mountain Power	-\$10.26
	20040	Rocky Mountain Power	-\$31.29
	20041	Sam's Club	-\$77.96
	20042	The Data Center, LLC	-\$556.48
	20043	Verizon (V)	-\$406.92
	20044	WSP USA Inc.	-\$6,786.35
	20045	AFLAC	-\$176.65
	20046	Utah State Tax Commission	-\$2,845.00
	20047	Gary S. Adams	-\$13.96
	20048	Gary L. Newman	-\$15.08
	20049	Mark W. Ohlin	-\$15.08
	20050	Rodney D. Banks	-\$10.00
	20051	Chad Zito	-\$10.08
	20052	Linda A. Toupin	-\$70.00
	20053	Jon S. Ritchie	-\$40.24
	20054	Mark W. Ohlin	-\$40.24
	20055	Gary S. Adams	-\$36.88
	20056	Rodney D. Banks	-\$10.00
	20057	Gary L. Newman	-\$10.08
	20058	Courtney L. Harris	-\$2,047.27
	20059	Justin J. Sandberg	-\$1,720.26
	20060	Kent D. Thurgood	-\$1,797.90
	20061	Linda A. Toupin	-\$1,699.33
	20062	Nathan S. Doxey	-\$1,737.19
	20063	Philip W. Durbano	-\$2,145.14
	20064	Rodney D. Banks	-\$3,701.39
	20065	Clyde Snow & Sessons	-\$2,092.75
Nov 9 - 10, 22		<b>TOTAL</b>	<b>-\$145,032.67</b>