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Water, Sewer, and Reclaimed Water CIP Projects








No.	Project Name	Map Color	Project Type	Map Shape	On Map?	Project Description	Cost included In Revenue Requirements
4	Live Oak Reserve Force Main Replacement		Pipeline		Yes	The ten-inch diameter force main on Live Oak Reserve Boulevard has been a source of numerous breaks and point repairs. The project aims to redesign the entire section of force main and replace the existing force main.	\$ 840,000
5	Oviedo Blvd Reclaimed Pipe Extension (1)		Pipeline		Yes	The City aims to expand its reclaimed water infrastructure by extending the existing reclaim water line on Oviedo Blvd. The new main will connect the existing main south of Oviedo Gym to the existing main at East Broadway street and provide reclaim service to the new reclaimed irrigation system being installed as part of the SR 426/CR 419 Phase 2 Road Widening.	\$ -
6	Water System Optimization (1)		Study/Permit		Yes	The City of Oviedo needs to optimize the water treatment and distribution operation to improve finished and distribution system water quality. The project will include evaluation of the treatment processes and chemical systems at the West Mitchell Hammock Water Treatment Facility and AM Jones facility as well as review and update the City's hydraulic model to analyze the distribution system. This evaluation is one piece of the City's plan to prepare the water system for future needs.	\$ -
7	Lower Floridan Aquifer. Test Production Well (1)		Infrastructure Improvements		Yes	The Central Florida Water Initiative (CFWI) regulations adopted in 2021 place restrictions on the increased future use of Upper Floridan Aquifer (UFA) groundwater. The City is therefore considering adding brackish groundwater from the Lower Floridan aquifer (LFA) to its current UFA wellfields to diversify its water supply portfolio and provide future alternative water supply (AWS) capacity for its potable water system. The City has requested to design and oversee construction and testing of an initial LFA test/production well.	\$ -
8	Consumptive Use Permit. Support and Alternative Water Supply Planning (1)		Study/Permit		Yes	The City's consumptive use permit (CUP) number 8252 will expire on October 14, 2028. The City's allocation of 4.68 million gallons per day is insufficient to meet all customer needs through 2028. As one feasible strategy, the City is considering adding brackish groundwater from the Lower Floridan aquifer to its current Upper Floridan Aquifer wellfields to diversify its water supply portfolio in support of a potential increase in CUP allocation. The City has requested assistance to evaluate the City's CUP status, coordinate with SJRWMD, develop a strategy for future water supply, perform conceptual planning for implementing LFA brackish groundwater as an alternative water supply source, and assist the City to apply for a modification of CUP 8252.	\$ -
9	West Mitchell Hammock Water Treatment Facility Advanced Water Treatment		Infrastructure Improvements		Yes	Project that covers the design and permitting for the City's future advanced water treatment system.	\$ 50,715,000
10	Oviedo Water Reclamation Facility. Reject Pump Station and Force Main		Pipeline/Infrastructure Improvements		Yes	This project anticipates the need for a new reject water pumping station and a force main that can transfer additional flow from the Oviedo Water Reclamation Facility to the Iron Bridge Water Reclamation Facility for treatment.	\$ 4,961,250
11	West Mitchell Hammock Water Treatment Facility Improvements 2018		Infrastructure Improvements		Yes	The project includes improvements to the West Mitchell Hammock Road Water Treatment Facility that will optimize disinfection of the drinking water. The improvement will also provide needed modifications to the existing power distribution system, including a new 600 kw generator. The improvements will maximize the use of the existing 2.5 MGD ground storage tank and the plant's permitted capacity.	\$ 200,000
12	Public Works Complex Phase 3		Facilities		Yes	PW Complex Phase III improvements project consists of the development of a new building approximately 5,331 sq ft, with office spaces, work station spaces, conference room, copy room, break room and mechanical room.	\$ 2,894,063
13	Lockwood Lift Station Force Main		Pipeline		Yes	Replacement of a portion of the existing 16-inch force main along Lockwood Road that pumps from Lift Station 50.	\$ 275,625
14	2.0 Million Gallon Reclaimed Storage Tank (1)		Infrastructure Improvements		Yes	This project is the rehabilitation of the existing 2.0 million gallon reclaimed water ground storage tank at the wastewater plant.	\$ -
15	Waverlee Woods/Kingsbridge East Reclaimed Water Improvement (1)		Pipeline		Yes	To perform a study on the reclaimed system infrastructure between Waverlee Woods and Kingsbridge East to evaluate re-routing reclaimed water flows. Then design and construct the reclaimed system infrastructure connection between Waverlee Woods and Kingsbridge East to provide better operational function of the reclaimed system by looping the developments together.	\$ -
16	2.5 Million Gallon Potable Storage Tank and Existing Tank Improvements (1)		Infrastructure Improvements		Yes	Construction of a new 2.5 million gallon ground storage tank at the water plant along with other existing storage tank improvements.	\$ -
17	Consumptive Use Permit (1)		Study/Permit		Yes	Modify the existing Consumptive Use Permit for potable drinking water.	\$ -
18	Oviedo Forest Water Main Looping Study (1)		Study/Permit		Yes	The project aims to study looping the water main infrastructure for Oviedo Forest with the objective optimizing disinfection residual and reduce flushing.	\$ -
19	Lift Station (LS) #7 Relocation (1)		Infrastructure Improvements		Yes	The existing LS #7 to be relocated due to the new Geneva Drive/SR 434 Connection Rd.	\$ -
20	Alafaya Woods-Chapman Rd. Water Main Study (1)		Study/Permit		Yes	Connect Alafaya Woods Subdivision to Chapman Road to loop the water system.	\$ -



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21	Long Acres Force Main Improvements		Pipeline		Yes	Improvements to the existing force main along Long Acres Lane	\$ 75,000
22	Reclaimed Automatic Control Valve (1)		Pipeline		Yes	The City has need for an Automatic Control Valve at the reclaimed interconnect with the Seminole County reclaimed water system so that the valve can be controlled remotely.	\$ -
23	Lift Station 23 Improvements (1)		Pipeline		Yes	Provide independent power to Lift Station-23 to avoid future water plant operation issues.	\$ -
24	Lockwood Master Lift Station Phase 2		Infrastructure Improvements		Yes	This project is based on the Lockwood Master lift station evaluation study. It aims to install new wet well, valve vault, submersible pumps, bypass pumps, electrical equipment and new manhole.	\$ 1,273,388
25	Oviedo Water Reclamation Facility Disk Filters		Infrastructure Improvements		Yes	The disk filters at the wastewater treatment plant are used to filter Suspended solids (particulate) from the wastewater before the disinfection process can take place. This process is a vital part of the treatment system that ensures plant effluent can meet FDEP permit requirements. The current filters have had difficulty maintaining filtration requirements and are in need of replacement.	\$ 2,270,000
26	Oviedo Water Reclamation Facility Future Expansion Report (1)		Study/Permit		Yes	This project provides an alternative disposal system for the City's wastewater effluent system. The project includes the design and construction of a dedicated force main from the City's wastewater treatment facility to the Seminole County force main on SR 434. This will provide a direct transmittal of flow to the City of Orlando's Iron Bridge Wastewater Treatment Facility when the City's Wastewater Treatment Facility is producing substandard effluent or experiencing extended wet weather conditions.	\$ -
27	Downtown Wastewater Master Plan		Study/Permit		Yes	The City of Oviedo is anticipating the redevelopment of 80 acres of the original 140 acres known as the Old Downtown Master Plan Area. The entire study area is within the Community Redevelopment Agency (CRA). This redevelopment will increase wastewater flow to Lift Station #7 (Lift Station #7) near the former Oviedo Post Office and could affect downstream lift stations. This project will provide wastewater flow projections for the redevelopment study area and evaluate the pipe and lift station capacities within the Study Area when the flow projections have been incorporated. Additionally, conceptual force main routing from the redevelopment study area to the City's lift station will be prepared.	\$ 512,500
28	Public Works Maintenance Yard Improvements		Facilities		Yes	This project is the design and construction of a second covered vehicle storage shed at the Evans Street Public Works Maintenance Yard.	\$ 493,500
29	Oviedo Water Reclamation Facility Permit Renewal		Study/Permit		Yes	The current five-year Florida Department of Environmental Protection permit for the Oviedo Water Reclamation Facility is close to expiring. This project is necessary for the renewal of the permit.	\$ 50,000
30	AM Jones Storage Improvements		Infrastructure Improvements		Yes	The existing water storage tanks at the AM Jones facility were evaluated by an outside company that identified both tanks required rehabilitation to extend the lifespan of both tanks.	\$ 678,038
31	Convert Golf Course Stormwater Pond 5 to Reclaimed Pond		Pipeline		Yes	Convert Ekana green golf course Lake #5 to a reclaimed wet weather storage pond.	\$ 1,892,885
32	Oviedo Water Reclamation Facility Clarifier Drivers		Infrastructure Improvements		Yes	Evaluation of the existing tank conditions identified both clarifier drivers were in need of replacement to ensure continual reliable operation	\$ 275,625
33	Oviedo Water Reclamation Facility Treatment Trains Improvement		Infrastructure Improvements		Yes	Evaluation of the existing tank conditions identified both treatment trains were in need of replacement to ensure continual reliable operation	\$ 259,088
34	Oviedo Water Reclamation Facility Screw Press Pump		Infrastructure Improvements		Yes	Due to the growing demand on the City's wastewater treatment facility, an additional screw press is required to treat the increase in capacity to OWRF. The screw press is utilized in the sludge processing and treatment, by dewatering the sludge thereby reducing the mass of the waste byproduct to be transported off site.	\$ 150,000
35	West Mitchell Hammock Water Treatment Facility High Service Pump		Infrastructure Improvements		Yes	An additional High Service Pump (HSP) is needed due to aging existing pumps, and would allow for greater reliability of the system as well as allow the current HSP's to be taken off line temporarily for repair and rehabilitation.	\$ 157,500
36	West Mitchell Hammock Water Treatment Facility Fluoride and Ammonia Skid		Infrastructure Improvements		Yes	The chemical treatment skids for both fluoride and ammonia are at the end of their useful life, and need to be replaced to ensure reliability of the potable water treatment system.	\$ 170,000
37	CR 419 Force Main Investigation and Replacement		Pipeline		Yes	This project includes investigation and recommendations for corrosion issues discovered on the existing ductile iron force main portions on County Road 419. Corrosion has caused a leak of raw wastewater in two locations.	\$ 4,961,250
101	Engineering Standards Manual (1)		Study/Permit		No	The City's Engineering Standards Manual is to be updated to be in line with current criteria.	\$ -





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102	Business Processing Map		Study/Permit		No	This project includes phasing of Utility Asset Management.	\$ 215,506
103	Septic to Sewer Study		Study/Permit		No	The septic to sewer study aims to identify, locate, plan and to budget septic systems to be converted into the City's wastewater system. The conversion not only improve the City's environmental resiliency but also increases the City's wastewater treatment revenue.	\$ 250,000
104	Renewals and Replacements (R&R)		Infrastructure Improvements		No	R&R includes anticipated annual renewal and replacement based on experience or useful life evaluation. Also includes monies for repair or replacement of infrastructure and equipment that is currently in good working order, but in window failure.	\$ 23,197,767
105	Public Works Building Improvements		Facilities		No	Miscellaneous improvements within current Public Works building.	\$ 26,250
106	Master Lift Station Pump/Panel		Infrastructure Improvements		No	This project includes a new pump and new control panel for the Master Lift Station that pumps to Iron Bridge.	\$ 157,500
107	New Water Meters		Facilities		No	Water meter replacements for Fiscal Years 2024 - 2033.	\$ 1,257,789
108	Vehicle Replacements		Facilities		No	Includes vehicles and equipment replacements for Fiscal Years 2024 - 2033.	\$ 12,062,893
Total Capital Improvement Plan included in Water, Sewer, and Reclaimed Water System Revenue Requirements							\$ 110,272,415

**NOTES:**

(1) Costs not included in Rate Study Annual Revenue Requirements. Funded from other sources including ARPA, Impact Fees, Existing Fund Balance, etc.

**LEGEND:**

Project Type	Shape
Pipeline	
Infrastructure Improvements	
Study /Permit	
Facilities	

Utility Type	Color
Wastewater	
Potable Water	
Reclaimed Water	
N/A	

City-Wide Projects (not shown on Map)		
No.	Project Name	On Map?
1	Engineering Standards Manual	No
2	Business Processing Map	No
3	Septic to Sewer Study	No