

Project Name	Description	Unescalated Capital Cost													
		2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
SW Atwell Rd	The project is the replacement of undersized AC waterlines along SW Atwell Road between Rock Creek Drive. Replacement of this four-inch main with an eight-inch main will increase available fire flow to this area thereby meeting the 2,000 gpm fire flow goal. Total length is approximately 1,000 feet. Identified in project 7 on page 94 of the Water System Plan.	-	-	-	-	-	-	-	263,000	-	-	-	-	-	-
NE Major St (water)	Replacement of an undersized AC water main in Hillcrest Avenue and NE Major Street. Replacing the four-inch water main with an eight-inch main satisfies available fire flow to the lower reaches of NE Major Street. Total length is approximately 500 feet. Project 9 in the Water System Plan-page 95. Per dig-once practice, will plan to add sewer to the area to maximize infrastructure improvement funding.	-	-	-	-	-	132,000	-	-	-	-	-	-	-	
Sheppard-Major-Loop (WW Extension not estimated)		-	-	-	-	-	-	-	-	-	-	-	-	-	
Vancouver West Waterline (not on plan)	Upsize and extend water mainline along Vancouver from Lasher to Rock Creek Dr. Add fire hydrant to meet standards for minimum distance between. Project driven by development and to replace an existing section of 4" AC line (Section 6.4 Ongoing Pipe Replacement on page 97 of the Water System Plan). Opportunity to remove connection through the County property and invest in future looping.	-	-	-	-	-	385,000	-	-	-	-	-	-		
Cascade Ave Water	The existing 8-inch sewer in Cascade Avenue, east of Russell Avenue between MH CI-13 and CI-15 is undersized for existing and future peak flows. This line should be upsized prior to any capacity upgrades to the Kanaka Pump Station. The project consists of replacing 920 feet of 8-inch sewer pipe with new 12-inch pipe. (project 5.1.1 S-01 in the General Sewer Plan page 77) Section 6.4 - Ongoing Pipe Replacement and 6.4.1 Leak Reduction Program focuses on replacement of outdated watermains (page 97-98). Cascade Avenue is an AC line and with the dig once practice there is a cost savings to having the projects done at the same time.	-	50,000	1,000,000	-	-	-	-	-	-	-	-	-		
Cascade Avenue Sewer (8-12")		-	50,000	1,000,000	-	-	-	-	-	-	-	-	-		
Ryan Allen Waterline & Rock Creek PRV	The project is the replacement of undersized AC waterlines along Rock Creek Drive between Ryan Allen Road and Monda Road and along Rock Creek Drive from Monda Road to the intersection with the water main from the Angel Heights PRV. Replacement of these six-inch mains with eight-inch mains will increase available fire flow to this area thereby meeting the 2,000 gpm fire flow goal for future commercial development. Total length is approx. 1,430 feet. Per dig-once practice, will plan to add sewer to the area to save costs. Identified in project 7 on page 94 of the Water System Plan. Also the first is the relocation of the existing pressure reducing station near the Interpretive Center to restructure the service zone for this area. Relocating this pressure reducing station from Rock Creek Drive to just north of the intersection of Ryan Allen Road and Foster Creek Road will benefit this area by transferring existing waterlines on both roads from PZ 2 to PZ 1.-project 12 on page 95 of the Water System Plan. And section 6.4.1 Leak Reduction Program-page 98 in the Water System Plan outlines: 1) replacing approximately 2,000 feet of six-inch AC mains with eight-inch ductile iron on Ryan Allen Road between Foster Creek Road and SW Rock Creek Drive	-	-	-	-	-	-	644,000	-	-	-	-	-		
Rock Creek Drive		-	-	-	-	-	-	-	375,000	-	-	-	-		
Ryan Allen (WW)-Waterline		-	-	-	-	-	-	500,000	-	-	-	-	-		
West-End Looping	A second improvement for PZ 2 is to provide looping at the west end of the system by extending the 12-inch water mains adjacent to Skamania Lodge to the proposed PZ 1 waterline extension at the west end of the system. This improvement will require the installation of a pressure reducing valve to connect the two zones. Total length is approximately 2,500 feet. Project 12 on page 95 of the Water System Plan.	-	-	-	-	-	-	657,000	-	-	-	-	-		

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Maple Way East	The first project includes an extension of an eight-inch main north on Maple Way Road from the intersection with Gropper, and an extension of eight-inch main along West Loop Road. Total length of pipe is approximately 5,700 feet. The second project is a eight-inch main on Maple Way Road between West Loop and Kanaka Creek Road that will provide the backbone for future development. Total length of pipe is approximately 1,700 feet. Identified as project 13 in the Water System Plan-pg 96.	-	-	-	-	-	-	1,323,000	-	-	-	-	-	-	-
Maple Way West		-	-	-	-	-	-	412,000	-	-	-	-	-	-	-
Zone 4 Predesign	A single project is identified for Zone 4 and will be dependent upon development extending into this higher elevation area. This project includes construction of a 500,000-gallon reservoir, booster pump station, PRV intertie, and extension of a 12-inch water main north along Kanaka Creek Road to the future PZ 4 reservoir site. Total length of pipe is assumed to be approximately 4,600 feet for cost estimating purposes. Because this is outside of the Retail Service Area, a water system plan amendment will be needed to expand the boundary. Project 14 in the Water System Plan, page 96.	-	-	-	-	-	-	75,000	-	-	-	-	-	-	
Zone 4 Improvements		-	-	-	-	-	-	4,038,000	-	-	-	-	-	-	
Water System Plan	Required by law to update the Water System Plan every 10 years. Also identified as project 10 on page 95 of the Water System Plan.	-	-	-	-	200,000	-	-	-	-	-	-	-	-	
GSP update	Majority of projects in current Plan will be completed by 2025. Additional phases of WWTP upgrades and sewer line extensions need to be reviewed and planned for with updated cost estimates.	-	75,000	-	-	-	-	-	-	-	-	-	-	-	
Foster Creek Rd-by int. w/Rock Creek Dr. (WW Ext.not estimated)(S-06)	Section 5.2 - Extensions to unsewered areas (page 77) of the General Sewer Plan and 5.2.4 Other Extension Projects (page 79)	-	-	-	-	-	-	200,000	-	-	-	-	-	-	
WW Line Extensions	Section 5.2 - Extensions to unsewered areas (page 77) of the General Sewer Plan-change due to change in policy being discussed.	-	150,000	-	-	-	-	-	-	-	-	-	-	-	
Ryan Allen (WW)to Hollstrom	This project will extend sewer closer to properties within city limits that are currently on septic to allow conversion to the sewer system. The new sanitary sewer will start from the intersection of Ryan Allen Road and Iman Cemetery Road, continue east to Foster Creek Road, and then continue north to the intersection of Foster Creek Road and Hollstrom Road. Spur lines will be provided to serve properties on Lakeview Road and SW Jayden Lane. The project consists of installing 4,000 feet of 8-inch sewer pipe. It will provide a possible sewer connection to 24 properties currently on septic as well as future service to undeveloped properties located near the line. Project 5.2.3 (Project S-06) in the General Sewer Plan-page 79.	-	-	-	-	-	-	-	-	-	-	-	-	1,525,000	

Water Project
Combined Water/Sewer project
Sewer Project