Funded Projects

Overview

The Water Capital Improvement Program provides for the planning, engineering, and construction of improvements to the City's drinking water system. The program includes projects for installing new distribution system water lines, replacing existing water lines, exploring new groundwater sources, as well as proactive assessments of critical mains and safeguards for vital facilities such as seismic upgrades. These projects align with the latest Water System Master Plan, adopted by the City Council September 2012.

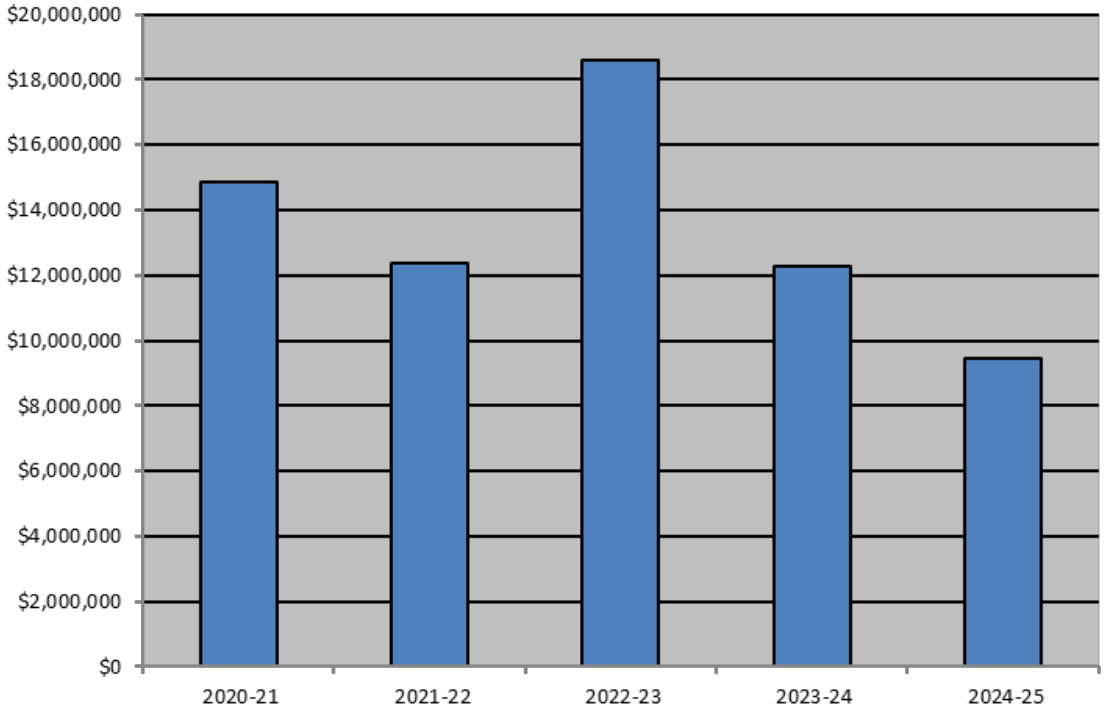
Highlights

One of the primary goals of the Water Program is to ensure that this community's drinking water supplies are protected, available, and affordable now and into the future. Another goal is to continually evaluate, and change when possible, business methods so they align with the City's sustainability directives.

The following list provides examples of projects that support the Water Program's goals:

1. Test Wells #CIPWT00009
2. Gresham's Well #2 #CIPWT00010
3. Grant Butte Seismic Piping & Reservoir Retrofit #CIPWT00014
4. Local Street Reconstruction Coordination #CIPWT00015
5. Gresham's Well #3 #CIPWT00021
6. Cascade Reservoir #1 Rehabilitation #CIPWT00025
7. Cascade Pump Station Improvements #CIPWT00026
8. Cascade Reservoir #2 #CIPWT00027
9. Cascade Groundwater Filtration System #CIPWT00028

Water Expenditure Graph by Fiscal Year



Water Funded Summary

Project	Project Name	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	Total
CIPWT00001	Water System Improvements	135,553	50,000	50,000	50,000	50,000	50,000	385,553
CIPWT00002	Waterline Oversizing	220,185	25,000	25,000	25,000	25,000	25,000	345,185
CIPWT00003	Water System and Supply Studies	347,930	120,000	20,000	20,000	20,000	20,000	547,930
CIPWT00004	Hunter's Highland Reservoir #2	100,000	0	0	407,200	1,230,469	0	1,737,669
CIPWT00005	Minor Capital Maintenance Projects	442,406	200,000	200,000	200,000	200,000	200,000	1,442,406
CIPWT00006	NE Waterline Replacement Package Phase II	478,104	0	0	0	0	0	478,104
CIPWT00007	Water System Master Plan	250,000	0	0	0	0	0	250,000
CIPWT00008	SE Waterline Replacement Package Phase II	939,694	0	0	0	0	0	939,694
CIPWT00009	Test Wells	1,036,287	553,104	0	0	0	0	1,589,391
CIPWT00010	Gresham's Well #2	2,499,245	2,500,755	0	0	0	0	5,000,000
CIPWT00011	Lusted Site Improvements	275,527	0	0	1,250,000	0	0	1,525,527
CIPWT00014	Grant Butte Seismic Piping & Reservoir Retrofit	1,641,161	1,954,931	0	0	0	0	3,596,092
CIPWT00015	Local Street Reconstruction Coordination	3,096,968	2,000,000	2,400,000	0	0	0	7,496,968
CIPWT00017	Water Main Condition Assessment	200,000	210,000	220,000	230,000	240,000	250,000	1,350,000
CIPWT00018	Hunter's Highland Service Level Pump Station Installatio	0	0	0	0	407,200	1,425,200	1,832,400
CIPWT00019	NW Waterline Replacement Package Phase II	0	187,000	561,000	0	0	0	748,000
CIPWT00020	Intermediate Pump Station Waterline	0	0	100,000	0	0	0	100,000
CIPWT00021	Gresham's Well #3	0	1,287,500	4,017,000	0	0	0	5,304,500
CIPWT00022	Gabbert Seismic Piping	0	0	175,000	400,000	0	0	575,000
CIPWT00023	Division Pump Station Seismic Upgrade	0	0	0	150,000	200,000	0	350,000
CIPWT00024	South Hills Seismic Pipeline	0	0	0	0	390,000	700,000	1,090,000
CIPWT00025	Cascade Reservoir #1 Rehabilitation	0	1,416,250	0	0	0	0	1,416,250
CIPWT00026	Cascade Pump Station Improvements	0	193,125	602,550	0	0	0	795,675
CIPWT00027	Cascade Reservoir #2	0	965,625	3,012,750	0	0	0	3,978,375
CIPWT00028	Cascade Groundwater Filtration System	0	3,218,750	0	10,440,338	0	0	13,659,088
CIPWT00029	Groundwater Secondary Transmission Main	0	0	968,071	3,020,382	0	0	3,988,453
CIPWT00030	Columbia South Shore Connection	0	0	0	0	633,099	1,975,268	2,608,367
CIPWT00031	Gresham's Well #4	0	0	0	1,365,909	4,261,635	0	5,627,544
CIPWT00032	Gresham's Well #5	0	0	0	0	1,406,886	4,389,484	5,796,370
CIPWT00033	North Meter Station and Pipeline Improvements	0	0	0	1,024,432	3,196,226	0	4,220,658
CIPWT00034	Regner Reservoir Seismic Upgrade	0	0	0	0	0	420,000	420,000
Grand Total		**11,663,060**	**14,882,040**	**12,351,371**	**18,583,261**	**12,260,515**	**9,454,952**	**79,195,199**

Water Funded Summary by Resource							
Description	**2019-20**	**2020-21**	**2021-22**	**2022-23**	**2023-24**	**2024-25**	**Total**
Other	0	0	0	1,250,000	0	0	1,250,000
Debt-Operating	6,473,416	12,144,635	9,280,297	12,680,848	7,724,897	5,906,855	54,210,948
Debt-SDC	1,066,651	899,276	1,745,074	3,523,656	2,874,993	1,198,626	11,308,276
Grant	1,295,999	866,198	0	0	0	0	2,162,197
Operating	502,819	170,000	170,000	148,757	1,220,625	1,899,471	4,111,672
Repair/Replacement Reserves	2,324,175	801,931	1,156,000	980,000	440,000	450,000	6,152,106
Grand Total	**11,663,060**	**14,882,040**	**12,351,371**	**18,583,261**	**12,260,515**	**9,454,952**	**79,195,199**

Water Funded Resource Detail

Project	Project Name	Description	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	Total
CIPWT00001	Water System Improvements	Operating	135,553	50,000	50,000	50,000	50,000	50,000	385,553
CIPWT00001 Total			**135,553**	**50,000**	**50,000**	**50,000**	**50,000**	**50,000**	**385,553**
CIPWT00002	Waterline Oversizing	Debt-SDC	220,185	25,000	25,000	25,000	25,000	25,000	345,185
CIPWT00002 Total			**220,185**	**25,000**	**25,000**	**25,000**	**25,000**	**25,000**	**345,185**
CIPWT00003	Water System and Supply Studies	Operating	347,930	120,000	20,000	20,000	20,000	20,000	547,930
CIPWT00003 Total			**347,930**	**120,000**	**20,000**	**20,000**	**20,000**	**20,000**	**547,930**
CIPWT00004	Hunter's Highland Reservoir #2	Debt-SDC	80,664	0	0	328,443	992,550	0	1,401,657
		Operating	19,336	0	0	78,757	237,919	0	336,012
CIPWT00004 Total			**100,000**	**0**	**0**	**407,200**	**1,230,469**	**0**	**1,737,669**
CIPWT00005	Minor Capital Maintenance Projects	Repair/Replace	442,406	200,000	200,000	200,000	200,000	200,000	1,442,406
CIPWT00005 Total			**442,406**	**200,000**	**200,000**	**200,000**	**200,000**	**200,000**	**1,442,406**
CIPWT00006	NE Waterline Replacement Package Phase II	Repair/Replace	478,104	0	0	0	0	0	478,104
CIPWT00006 Total			**478,104**	**0**	**0**	**0**	**0**	**0**	**478,104**
CIPWT00007	Water System Master Plan	Debt-Operating	250,000	0	0	0	0	0	250,000
CIPWT00007 Total			**250,000**	**0**	**0**	**0**	**0**	**0**	**250,000**
CIPWT00008	SE Waterline Replacement Package Phase II	Repair/Replace	939,694	0	0	0	0	0	939,694
CIPWT00008 Total			**939,694**	**0**	**0**	**0**	**0**	**0**	**939,694**
CIPWT00009	Test Wells	Debt-Operating	792,396	436,479	0	0	0	0	1,228,875
		Debt-SDC	243,891	116,625	0	0	0	0	360,516
CIPWT00009 Total			**1,036,287**	**553,104**	**0**	**0**	**0**	**0**	**1,589,391**
CIPWT00010	Gresham's Well #2	Debt-Operating	1,977,334	2,000,604	0	0	0	0	3,977,938
		Debt-SDC	521,911	500,151	0	0	0	0	1,022,062
CIPWT00010 Total			**2,499,245**	**2,500,755**	**0**	**0**	**0**	**0**	**5,000,000**
CIPWT00011	Lusted Site Improvements	Debt-Operating	275,527	0	0	0	0	0	275,527
		Other	0	0	0	1,250,000	0	0	1,250,000
CIPWT00011 Total			**275,527**	**0**	**0**	**1,250,000**	**0**	**0**	**1,525,527**
CIPWT00014	Grant Butte Seismic Piping & Reservoir Retrofit	Debt-Operating	81,191	883,802	0	0	0	0	964,993
		Grant	1,295,999	866,198	0	0	0	0	2,162,197
		Repair/Replace	263,971	204,931	0	0	0	0	468,902
CIPWT00014 Total			**1,641,161**	**1,954,931**	**0**	**0**	**0**	**0**	**3,596,092**
CIPWT00015	Local Street Reconstruction Coordination	Debt-Operating	3,096,968	2,000,000	2,400,000	0	0	0	7,496,968
CIPWT00015 Total			**3,096,968**	**2,000,000**	**2,400,000**	**0**	**0**	**0**	**7,496,968**
CIPWT00017	Water Main Condition Assessment	Repair/Replace	200,000	210,000	220,000	230,000	240,000	250,000	1,350,000
CIPWT00017 Total			**200,000**	**210,000**	**220,000**	**230,000**	**240,000**	**250,000**	**1,350,000**
CIPWT00018	Hunter's Highland Service Level Pump Station Installati	Debt-SDC	0	0	0	0	84,494	295,729	380,223
		Operating	0	0	0	0	322,706	1,129,471	1,452,177
CIPWT00018 Total			**0**	**0**	**0**	**0**	**407,200**	**1,425,200**	**1,832,400**
CIPWT00019	NW Waterline Replacement Package Phase II	Repair/Replace	0	187,000	561,000	0	0	0	748,000
CIPWT00019 Total			**0**	**187,000**	**561,000**	**0**	**0**	**0**	**748,000**
CIPWT00020	Intermediate Pump Station Waterline	Operating	0	0	100,000	0	0	0	100,000
CIPWT00020 Total			**0**	**0**	**100,000**	**0**	**0**	**0**	**100,000**

Water Funded Resource Detail									
Project	Project Name	Description	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	Total
CIPWT00021	Gresham's Well #3	Debt-Operating	0	1,030,000	3,213,600	0	0	0	4,243,600
		Debt-SDC	0	257,500	803,400	0	0	0	1,060,900
CIPWT00021 Total			0	1,287,500	4,017,000	0	0	0	5,304,500
CIPWT00022	Gabbert Seismic Piping	Repair/Replace	0	0	175,000	400,000	0	0	575,000
CIPWT00022 Total			0	0	175,000	400,000	0	0	575,000
CIPWT00023	Division Pump Station Seismic Upgrade	Operating	0	0	0	0	200,000	0	200,000
		Repair/Replace	0	0	0	150,000	0	0	150,000
CIPWT00023 Total			0	0	0	150,000	200,000	0	350,000
CIPWT00024	South Hills Seismic Pipeline	Operating	0	0	0	0	390,000	700,000	1,090,000
CIPWT00024 Total			0	0	0	0	390,000	700,000	1,090,000
CIPWT00025	Cascade Reservoir #1 Rehabilitation	Debt-Operating	0	1,416,250	0	0	0	0	1,416,250
CIPWT00025 Total			0	1,416,250	0	0	0	0	1,416,250
CIPWT00026	Cascade Pump Station Improvements	Debt-Operating	0	193,125	482,040	0	0	0	675,165
		Debt-SDC	0	0	120,510	0	0	0	120,510
CIPWT00026 Total			0	193,125	602,550	0	0	0	795,675
CIPWT00027	Cascade Reservoir #2	Debt-Operating	0	965,625	2,410,200	0	0	0	3,375,825
		Debt-SDC	0	0	602,550	0	0	0	602,550
CIPWT00027 Total			0	965,625	3,012,750	0	0	0	3,978,375
CIPWT00028	Cascade Groundwater Filtration System	Debt-Operating	0	3,218,750	0	8,352,270	0	0	11,571,020
		Debt-SDC	0	0	0	2,088,068	0	0	2,088,068
CIPWT00028 Total			0	3,218,750	0	10,440,338	0	0	13,659,088
CIPWT00029	Groundwater Secondary Transmission Main	Debt-Operating	0	0	774,457	2,416,306	0	0	3,190,763
		Debt-SDC	0	0	193,614	604,076	0	0	797,690
CIPWT00029 Total			0	0	968,071	3,020,382	0	0	3,988,453
CIPWT00030	Columbia South Shore Connection	Debt-Operating	0	0	0	0	633,099	1,975,268	2,608,367
CIPWT00030 Total			0	0	0	0	633,099	1,975,268	2,608,367
CIPWT00031	Gresham's Well #4	Debt-Operating	0	0	0	1,092,727	3,409,308	0	4,502,035
		Debt-SDC	0	0	0	273,182	852,327	0	1,125,509
CIPWT00031 Total			0	0	0	1,365,909	4,261,635	0	5,627,544
CIPWT00032	Gresham's Well #5	Debt-Operating	0	0	0	0	1,125,509	3,511,587	4,637,096
		Debt-SDC	0	0	0	0	281,377	877,897	1,159,274
CIPWT00032 Total			0	0	0	0	1,406,886	4,389,484	5,796,370
CIPWT00033	North Meter Station and Pipeline Improvements	Debt-Operating	0	0	0	819,545	2,556,981	0	3,376,526
		Debt-SDC	0	0	0	204,887	639,245	0	844,132
CIPWT00033 Total			0	0	0	1,024,432	3,196,226	0	4,220,658
CIPWT00034	Regner Reservoir Seismic Upgrade	Debt-Operating	0	0	0	0	0	420,000	420,000
CIPWT00034 Total			0	0	0	0	0	420,000	420,000
Grand Total			11,663,060	14,882,040	12,351,371	18,583,261	12,260,515	9,454,952	79,195,199

CIPWT00001: Water System Improvements

Description: This project supports water system repair and rehabilitation through improvements such as waterline relocations and replacements, improvements necessary to retain water quality, improvements in support of other projects and facilities protection as needed. This project is located in various neighborhood districts within the City.

Justification: This project serves existing customers by protecting facilities during construction by others, and by maintaining service continuity, system reliability and fire protection. Some of these project costs are recoverable from other public agencies, utilities or private developers. The desired outcome is to minimize service outages, protect the integrity of the system and maintain water quality. This project also replaces undersized facilities and relocates fire hydrants to meet ADA requirements as part of other small scale transportation related projects. (Existing / Future Customers Benefited:100% / 0%)

Type of Project: Repair and rehabilitation of facilities and utilities.

City Wide Project

Estimated Dollars:

Funds	Description	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	Total
Resources	Operating	135,553	50,000	50,000	50,000	50,000	50,000	385,553
Resources Total		**135,553**	**50,000**	**50,000**	**50,000**	**50,000**	**50,000**	**385,553**
Expenses	Design/Const Admin	31,200	11,500	11,500	11,500	11,500	11,500	88,700
	Construction	87,753	32,400	32,400	32,400	32,400	32,400	249,753
	Admin (14%)	16,600	6,100	6,100	6,100	6,100	6,100	47,100
Expenses Total		**135,553**	**50,000**	**50,000**	**50,000**	**50,000**	**50,000**	**385,553**

CIPWT00002: Waterline Oversizing

Description: This project represents City contributions to miscellaneous oversizing of waterlines designated in the Water Master Plan or system modeling. Gresham will consider cost reimbursements, as established by Council resolution, for waterline oversizing above 8" in size and updates for new hydrant installations, if required by the City. This project also supports construction of water facilities to provide additional fire flow to specific areas of the city. The project is located in various neighborhood districts.

Justification: These contributions allow the City to assist in or provide for the upgrade of inadequate facilities and improving fire flows that accommodate new development. Project funding will be drawn from the forward-looking SDCs collected from new service connections. (Existing / Future Customers Benefited: 0% / 100%)

Type of Project: Construction of facilities and utilities for growth.

City Wide Project

Estimated Dollars:

Funds	Description	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	Total
Resources	Debt-SDC	220,185	25,000	25,000	25,000	25,000	25,000	345,185
Resources Total		**220,185**	**25,000**	**25,000**	**25,000**	**25,000**	**25,000**	**345,185**
Expenses	Design/Const Admin	35,200	4,000	4,000	4,000	4,000	4,000	55,200
	Construction	157,985	17,930	17,930	17,930	17,930	17,930	247,635
	Admin (14%)	27,000	3,070	3,070	3,070	3,070	3,070	42,350
Expenses Total		**220,185**	**25,000**	**25,000**	**25,000**	**25,000**	**25,000**	**345,185**

CIPWT00003: Water System and Supply Studies

Description: This project funds studies that evaluate water supply options for meeting current and future water system reliability and demands that help ensure the City's compliance with state and federal water system mandates. Included in this project is funding for utility supply investigations, studies of urban growth boundaries, water supply option evaluations, and water treatment and water quality evaluations and other studies related to water system operation . The study includes infrastructure, financing and programming elements: e.g., reservoir storage capacity, wholesale rates, wellhead protection and water conservation program requirements. The project supports water service levels and various neighborhood districts.

Justification: This project supports the evaluation of future impacts to Gresham from infrastructure improvements and expansions to the Portland Water Bureau source of supply or the improvements made to the groundwater source of supply as well as impacts due to state and federal drinking water regulations. (Existing / Future Customers Benefited: 100% / 0%)

Type of Project: Engineering Studies Related to City services.

Study/Analysis

Estimated Dollars:

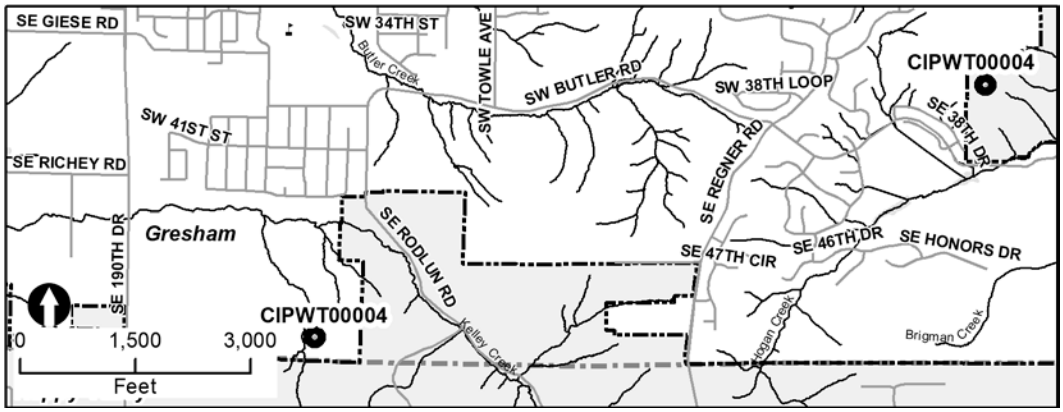
Funds	Description	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	Total
Resources	Operating	347,930	120,000	20,000	20,000	20,000	20,000	547,930
Resources Total		**347,930**	**120,000**	**20,000**	**20,000**	**20,000**	**20,000**	**547,930**
Expenses	Design/Const Admin	305,230	105,300	17,544	17,544	17,544	17,544	480,706
	Admin (14%)	42,700	14,700	2,456	2,456	2,456	2,456	67,224
Expenses Total		**347,930**	**120,000**	**20,000**	**20,000**	**20,000**	**20,000**	**547,930**

CIPWT00004: Hunter's Highland Reservoir #2

Description: This project constructs a second reservoir on Hunter's Highland Service Level. The project includes consultant services and construction of a 0.4 MG tank and associated facilities, in addition to the installation of 1,325 L.F. of 16" D.I. waterline. This project will connect the Hunter's Highland Reservoir No. 2 site to SW Butler Road. The project is located in the Pleasant Valley area or within Clackamas County. SDC projects #SF3 and #HH2.

Justification: This project will provide storage, transmission capacity and looping on the East side of the Hunters Highland Service Level to support future development and provide fire flow capacity for future customers. When constructed this waterline will serve as part of the "backbone" system to deliver Hunters Highland Service Level water to the Pleasant Valley development area. The reservoir will provide the additional storage capacity needed. (Existing / Future Customers Benefited: 21% / 79%)

Type of Project: Construction of facilities and utilities for growth.



Estimated Dollars:

Funds	Description	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	Total
Resources	Debt-SDC	80,664	0	0	328,443	992,550	0	1,401,657
	Operating	19,336	0	0	78,757	237,919	0	336,012
Resources Total		**100,000**	**0**	**0**	**407,200**	**1,230,469**	**0**	**1,737,669**
Expenses	Design/Const Admin	87,700	0	0	101,800	184,563	0	374,063
	Construction	0	0	0	255,416	894,835	0	1,150,251
	Admin (14%)	12,300	0	0	49,984	151,071	0	213,355
Expenses Total		**100,000**	**0**	**0**	**407,200**	**1,230,469**	**0**	**1,737,669**

CIPWT00005: Minor Capital Maintenance Projects

Description: This project constructs multiple small projects which are identified in the Capital Maintenance Plan (CMP) or have been identified through the Operations or Engineering groups as needed. Projects will include replacement and/or rehabilitation of aging water system infrastructure which could include waterlines, pump stations, reservoirs, valves, hydrants and water meters.

Justification: The Capital Maintenance Plan (CMP) identified projects which are generally maintenance in nature and do not have an SDC component. The plan examines system deficiencies within the existing water system. The projects identified in the plan as well as other capital maintenance projects identified during the daily operation of the system will be funded through the Repair/Replacement Reserves fund. (Existing/Future Customer Benefit: 100%/ 0%)

Type of Project: Repair and rehabilitation of facilities and utilities to correct deficiencies.

City Wide Project

Estimated Dollars:

Funds	Description	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	Total
Resources	Repair/Replacement Reserves	442,406	200,000	200,000	200,000	200,000	200,000	1,442,406
Resources Total		**442,406**	**200,000**	**200,000**	**200,000**	**200,000**	**200,000**	**1,442,406**
Expenses	Design/Const Admin	79,600	35,000	35,000	35,000	35,000	35,000	254,600
	Construction	308,506	140,400	140,400	140,400	140,400	140,400	1,010,506
	Admin (14%)	54,300	24,600	24,600	24,600	24,600	24,600	177,300
Expenses Total		**442,406**	**200,000**	**200,000**	**200,000**	**200,000**	**200,000**	**1,442,406**

CIPWT00006: NE Waterline Replacement Package Phase II

Description: This project replaces aging 6-inch cast iron with 8-inch ductile iron including services. These replacements are located in various neighborhood districts. The top three projects listed by priority include: NE 19th – Liberty to 20th, NE 6th south of NE Cochran and NE La Mesa Ct. south of NE 8th. The priority of the projects are subject to change.

Justification: The waterline projects replaces badly deteriorated waterlines with a high record of repairs and greatly improves system flows and reliability. (Existing/Future Customers Benefited: 100%/0%)

Type of Project: Repair and rehabilitation of facilities and utilities

City Wide Project

Estimated Dollars:

Funds	Description	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	Total
Resources	Repair/Replacement Reserves	478,104	0	0	0	0	0	478,104
Resources Total		**478,104**	**0**	**0**	**0**	**0**	**0**	**478,104**
Expenses	Design/Const Admin	399,404	0	0	0	0	0	399,404
	Construction	20,000	0	0	0	0	0	20,000
	Admin (14%)	58,700	0	0	0	0	0	58,700
Expenses Total		**478,104**	**0**	**0**	**0**	**0**	**0**	**478,104**

CIPWT00007: Water System Master Plan

Description: The Water System Master Plan must be updated to meet State requirements and to account for changes in projected development, economic conditions, water system priorities and condition of existing assets. The project benefits all water service levels and neighborhood districts. This project will provide for updates about every five years.

Justification: This study will provide the necessary and effective direction to our long-range Water Capital Improvement Program, future growth, and financial requirements. (Existing/Future Customer Benefit: 50% / 50%)

Type of Project: Engineering study related to city services.

Study/Analysis

Estimated Dollars:

Funds	Description	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	Total
Resources	Debt-Operating	250,000	0	0	0	0	0	250,000
Resources Total		**250,000**	**0**	**0**	**0**	**0**	**0**	**250,000**
Expenses	Design/Const Admin	219,300	0	0	0	0	0	219,300
	Admin (14%)	30,700	0	0	0	0	0	30,700
Expenses Total		**250,000**	**0**	**0**	**0**	**0**	**0**	**250,000**

CIPWT00008: SE Waterline Replacement Package Phase II

Description: This project replaces aging 6-inch cast iron with 8-inch ductile iron including services. These replacements are located in various neighborhood districts. The top three projects listed by priority include: SE Liberty south of Roberts, SE 2nd East of Morlan and SE Spruce. The priority of the projects are subject to change.

Justification: The waterline projects replaces badly deteriorated waterlines with a high record of repairs and greatly improves system flows and reliability. (Existing/Future Customers Benefited: 100%/0%)

Type of Project: Repair and rehabilitation of facilities and utilities

City Wide Project

Estimated Dollars:

Funds	Description	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	Total
Resources	Repair/Replacement Reserves	939,694	0	0	0	0	0	939,694
Resources Total		**939,694**	**0**	**0**	**0**	**0**	**0**	**939,694**
Expenses	Design/Const Admin	75,000	0	0	0	0	0	75,000
	Construction	749,294	0	0	0	0	0	749,294
	Admin (14%)	115,400	0	0	0	0	0	115,400
Expenses Total		**939,694**	**0**	**0**	**0**	**0**	**0**	**939,694**

CIPWT00009: Test Wells

Description: This project will identify locations for potential well development and construct test wells. The information gathered from the test wells will be used to evaluate which wells would be most advantageous for the City to develop into production wells. SDC project #ST1.

Justification: The City of Gresham currently is allocated 18 MGD groundwater capacity under the Intergovernmental Agreement (IGA) with the Rockwood Water People's Utility District. This agreement was developed to maintain adequate source supply . Currently the City has developed 5 MGD of the allocated capacity through the construction of Cascade Well #5. (Existing / Future Customers Benefited: 79% / 21%)

Type of Project: Development of source water.

City Wide Project

Estimated Dollars:

Funds	Description	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	Total
Resources	Debt-Operating	792,396	436,479	0	0	0	0	1,228,875
	Debt-SDC	243,891	116,625	0	0	0	0	360,516
Resources Total		**1,036,287**	**553,104**	**0**	**0**	**0**	**0**	**1,589,391**
Expenses	Design/Const Admin	186,500	97,120	0	0	0	0	283,620
	Construction	722,487	388,057	0	0	0	0	1,110,545
	Admin (14%)	127,300	67,926	0	0	0	0	195,226
Expenses Total		**1,036,287**	**553,103**	**0**	**0**	**0**	**0**	**1,589,391**

CIPWT00010: Gresham's Well #2

Description: This project will construct a new production well and the infrastructure to deliver the water to the City's distribution grid. SDC project #ST2.

Justification: The City of Gresham is developing additional groundwater resources in order to maintain adequate supply and achieve water independence. Currently the City has developed 5 MGD with Cascade Well #5. Per the recommendation of the Water Master Plan the City is planning to develop 15 MGD. This work is being done in partnership and under an Intergovernmental Agreement (IGA) with the Rockwood Water People's Utility District (RWPUD). (Existing / Future Customers Benefited: 79% / 21%)

Type of Project: Development of Source.

City Wide Project

Estimated Dollars:

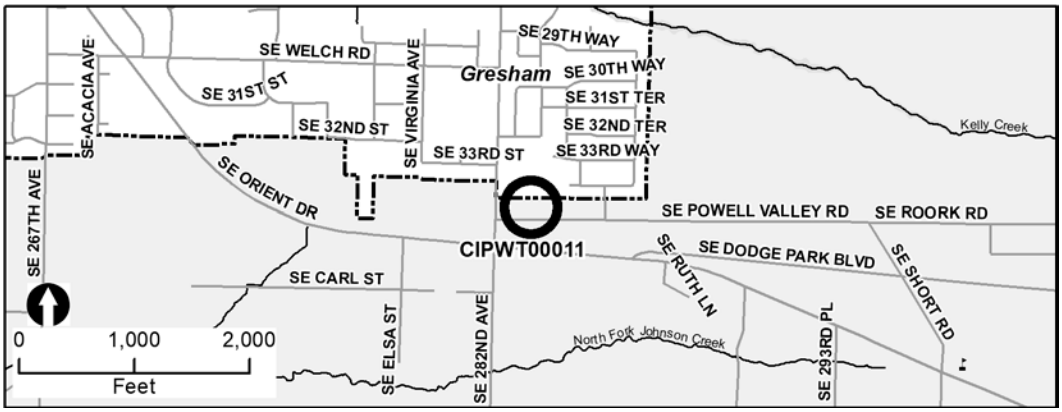
Funds	Description	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	Total
Resources	Debt-Operating	1,977,334	2,000,604	0	0	0	0	3,977,938
	Debt-SDC	521,911	500,151	0	0	0	0	1,022,062
Resources Total		**2,499,245**	**2,500,755**	**0**	**0**	**0**	**0**	**5,000,000**
Expenses	Design/Const Admin	433,834	434,100	0	0	0	0	867,934
	Construction	1,758,511	1,759,555	0	0	0	0	3,518,066
	Admin (14%)	306,900	307,100	0	0	0	0	614,000
Expenses Total		**2,499,245**	**2,500,755**	**0**	**0**	**0**	**0**	**5,000,000**

CIPWT00011: Lusted Site Improvements

Description: This project facilitates the repurposing of the existing Lusted Reservoir site. An IGA has been created to allow the neighboring Lusted Water District to utilize on site facilities while a sales agreement is negotiated. If the District does not purchase the property these funds may be needed to deconstruct the existing steel tank reservoir. If the site is sold these funds would go towards the purchase of other property for water operations.

Justification: The Lusted Reservoir and Pump Station have been decommissioned and are not useful for City water system operations. The site could be used during emergencies as identified in the Water Division's Continuation of Operations Plan (CoOP). Additionally, could be used for Water Division Emergency equipment such as generators.

Type of Project: Deconstruction.



Estimated Dollars:

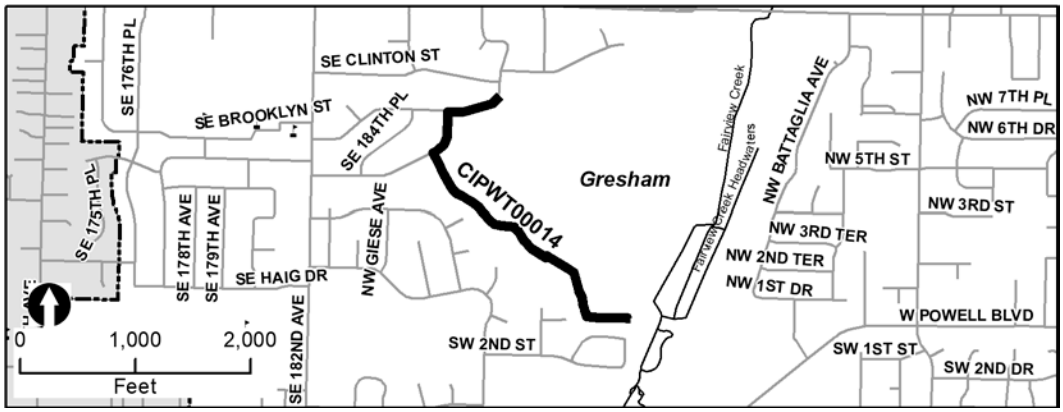
Funds	Description	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	Total
Resources	Other	0	0	0	1,250,000	0	0	1,250,000
	Debt-Operating	275,527	0	0	0	0	0	275,527
Resources Total		**275,527**	**0**	**0**	**1,250,000**	**0**	**0**	**1,525,527**
Expenses	Design/Const Admin	40,077	0	0	181,800	0	0	221,877
	Construction	201,650	0	0	914,700	0	0	1,116,350
	Admin (14%)	33,800	0	0	153,500	0	0	187,300
Expenses Total		**275,527**	**0**	**0**	**1,250,000**	**0**	**0**	**1,525,527**

CIPWT00014: Grant Butte Seismic Piping & Reservoir Retrofit

Description: This project, 1) replaces approximately 2,900 linear feet of existing 20-inch and 16-inch non-restrained joint ductile iron piping with specially designed 20-inch earthquake resistant ductile iron piping; the pipes are located between the Grant Butte reservoir and the North and South Meter stations which serve as the City's primary source water connections, and 2) retrofits the existing Grant Butte reservoir to comply with current seismic codes and meet the goals of the Seismic Resilience Plan; the improvements reduce the height of the water stored in the reservoir to prevent damage to the roof structure, reinforce the walls to resist damage in a significant seismic event, and modifies vault and inlet/outlet piping for additional resilience. This project is located on Grant Butte on the west side of Gresham. The grant is a Federal Emergency Management Agency grant awarded through its Pre-Disaster Mitigation Program.

Justification: In 2016 the City completed a water system seismic resiliency study and prepared a plan consistent with the recommendation of the 2013 State of Oregon Resilience Plan. Replacement of these pipeline is one of the highest priority projects identified by the City's plan in order to help assure continued water system operation in the event of a significant earthquake. (Existing / Future Customers Benefited: 100% / 0%).

Type of Project: Repair and rehabilitation of facilities and utilities.



Estimated Dollars:

Funds	Description	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	Total
Resources	Debt-Operating	81,191	883,802	0	0	0	0	964,993
	Grant	1,295,999	866,198	0	0	0	0	2,162,197
	Repair/Replacement Reserves	263,971	204,931	0	0	0	0	468,902
Resources Total		**1,641,161**	**1,954,931**	**0**	**0**	**0**	**0**	**3,596,092**
Expenses	Design/Const Admin	229,800	273,700	0	0	0	0	503,500
	Construction	1,209,861	1,441,131	0	0	0	0	2,650,992
	Admin (14%)	201,500	240,100	0	0	0	0	441,600
Expenses Total		**1,641,161**	**1,954,931**	**0**	**0**	**0**	**0**	**3,596,092**

CIPWT00015: Local Street Reconstruction Coordination

Description: This project constructs the replacement and rehabilitation of the water system infrastructure in coordination with the Local Street Reconstruction Program (LSRP) (CIP #CIPTR00012) administered by the City Transportation Division.

Justification: The water system within the limits of the LSRP is being evaluated by the Water Division engineering staff. This project will allow the City to repair and replace water system components prior to street resurfacing. (Existing / Future Customers Benefited: 100% / 0%).

Type of Project: Repair and rehabilitation of facilities and utilities.

City Wide Project

Estimated Dollars:

Funds	Description	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	Total
Resources	Debt-Operating	3,096,968	2,000,000	2,400,000	0	0	0	7,496,968
Resources Total		**3,096,968**	**2,000,000**	**2,400,000**	**0**	**0**	**0**	**7,496,968**
Expenses	Design/Const Admin	433,600	280,000	336,000	0	0	0	1,049,600
	Construction	2,283,068	1,474,400	1,769,300	0	0	0	5,526,768
	Admin (14%)	380,300	245,600	294,700	0	0	0	920,600
Expenses Total		**3,096,968**	**2,000,000**	**2,400,000**	**0**	**0**	**0**	**7,496,968**

CIPWT00017: Water Main Condition Assessment

Description: This project continues the work done with the Condition Assessment of Critical Mains Phase I and II. Over the next 10 years the City will perform condition assessment on the water system distribution network installed before 1980. This data will be used to build the City's asset management data base and inform decision making regarding distribution system maintenance and replacement prioritization.

Justification: Assessing the condition of buried mains is critical to both understanding the useful life of the main as well as identifying potential failures that could be ready to surface. Critical mains will be identified by size, age , leak history and criticality. To determine condition, several methods may be employed dependent on pipe access, whether the pipe segment can be taken out of service and size and type of pipe material.

Type of Project: Study

Study/Analysis

Estimated Dollars:

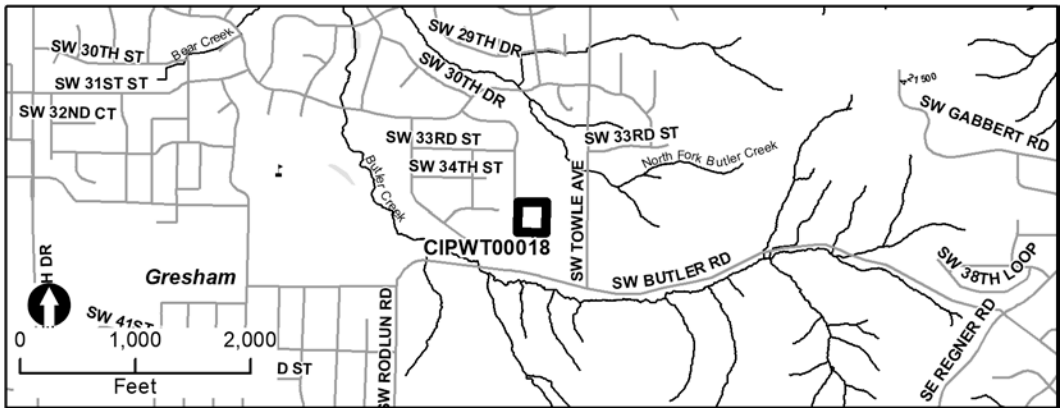
Funds	Description	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	Total
Resources	Repair/Replacement Reserves	200,000	210,000	220,000	230,000	240,000	250,000	1,350,000
Resources Total		**200,000**	**210,000**	**220,000**	**230,000**	**240,000**	**250,000**	**1,350,000**
Expenses	Design/Const Admin	175,400	184,200	193,000	201,800	210,500	219,300	1,184,200
	Admin (14%)	24,600	25,800	27,000	28,200	29,500	30,700	165,800
Expenses Total		**200,000**	**210,000**	**220,000**	**230,000**	**240,000**	**250,000**	**1,350,000**

CIPWT00018: Hunter's Highland Service Level Pump Station Installation

Description: This project constructs a pump station located on the Butler Reservoir site to support the Hunter's Highland expanded Service Level. The project includes consultant services, and construction of a pump station and associated infrastructure. SDC project #PF2.

Justification: With the increase in system demand due to growth in the Pleasant Valley and Springwater areas, additional pumping capacity will be needed. This project will be initiated when system demands are expected to exceed existing storage capacity. (Existing / Future Customers Benefited: 21% / 79%)

Type of Project: Construction of facilities and utilities for growth.



Estimated Dollars:

Funds	Description	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	Total
Resources	Debt-SDC	0	0	0	0	84,494	295,729	380,223
	Operating	0	0	0	0	322,706	1,129,471	1,452,177
Resources Total		**0**	**0**	**0**	**0**	**407,200**	**1,425,200**	**1,832,400**
Expenses	Design/Const Admin	0	0	0	0	61,080	213,780	274,860
	Construction	0	0	0	0	296,136	1,036,426	1,332,562
	Admin (14%)	0	0	0	0	49,984	174,994	224,978
Expenses Total		**0**	**0**	**0**	**0**	**407,200**	**1,425,200**	**1,832,400**

CIPWT00019: NW Waterline Replacement Package Phase II

Description: This project replaces aging 6-inch cast iron with 8-inch ductile iron including services. These replacements are located in various neighborhood districts. The top three projects listed by priority include: NW Angeline south of Division and NW Norman Ave between 4th and 8th. The priority of the projects are subject to change.

Justification: The waterline projects replaces badly deteriorated waterlines with a high record of repairs and greatly improves system flows and reliability. (Existing/Future Customers Benefited: 100%/0%)

Type of Project: Repair and rehabilitation of facilities and utilities.

City Wide Project

Estimated Dollars:

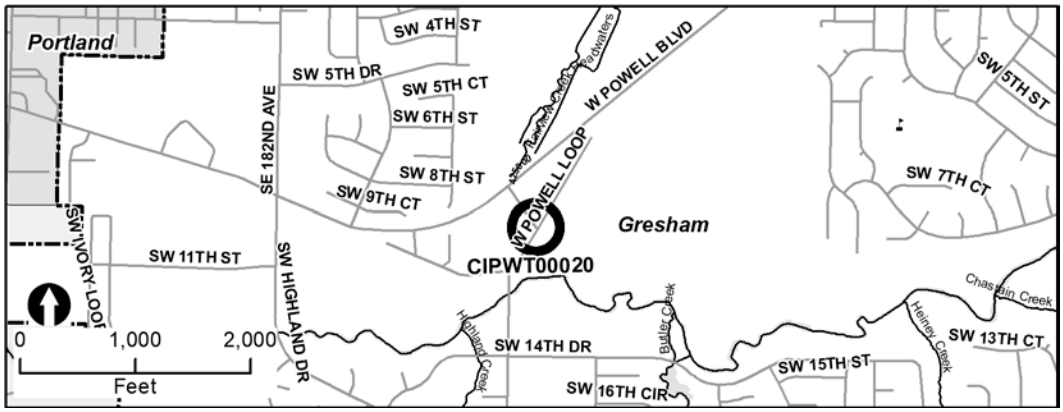
Funds	Description	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	Total
Resources	Repair/Replacement Reserves	0	187,000	561,000	0	0	0	748,000
Resources Total		**0**	**187,000**	**561,000**	**0**	**0**	**0**	**748,000**
Expenses	Design/Const Admin	0	32,800	98,400	0	0	0	131,200
	Construction	0	131,200	393,700	0	0	0	524,900
	Admin (14%)	0	23,000	68,900	0	0	0	91,900
Expenses Total		**0**	**187,000**	**561,000**	**0**	**0**	**0**	**748,000**

CIPWT00020: Intermediate Pump Station Waterline

Description: This project will loop the pump station to existing main to give redundant inlet supply to the Intermediate Pump Station.

Justification: This project was originally planned as part of the Intermediate Pump Station installation, however, this part of the contract was deferred. Constructing this section of water main will provide a redundant supply to the Intermediate Pump Station.

Type of Project: Construction.



Estimated Dollars:

Funds	Description	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	Total
Resources	Operating	0	0	100,000	0	0	0	100,000
Resources Total		**0**	**0**	**100,000**	**0**	**0**	**0**	**100,000**
Expenses	Design/Const Admin	0	0	16,800	0	0	0	16,800
	Construction	0	0	70,900	0	0	0	70,900
	Admin (14%)	0	0	12,300	0	0	0	12,300
Expenses Total		**0**	**0**	**100,000**	**0**	**0**	**0**	**100,000**

CIPWT00021: Gresham's Well #3

Description: This project will construct a new production well and the infrastructure to deliver the water to the City's distribution grid. SDC project #ST2.

Justification: The City of Gresham is developing additional groundwater resources in order to maintain adequate supply and achieve water independence. Currently the City has developed 5 MGD with Cascade Well #5. Per the recommendation of the Water Master Plan the City is planning to develop 15 MGD. This work is being done in partnership and under an Intergovernmental Agreement (IGA) with the Rockwood Water People's Utility District (RWPUD). (Existing / Future Customers Benefited: 79% / 21%)

Type of Project: Development of Source.

City Wide Project

Estimated Dollars:

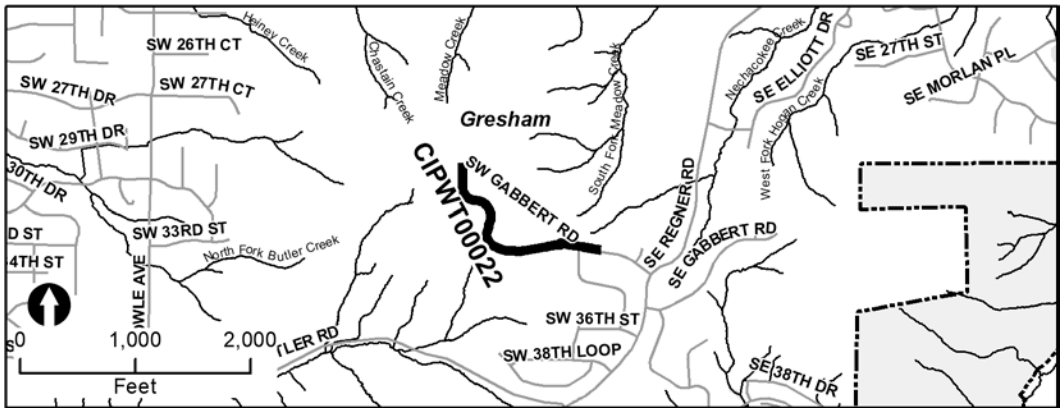
Funds	Description	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	Total
Resources	Debt-Operating	0	1,030,000	3,213,600	0	0	0	4,243,600
	Debt-SDC	0	257,500	803,400	0	0	0	1,060,900
Resources Total		**0**	**1,287,500**	**4,017,000**	**0**	**0**	**0**	**5,304,500**
Expenses	Design/Const Admin	0	218,900	697,300	0	0	0	916,200
	Construction	0	910,500	2,826,400	0	0	0	3,736,900
	Admin (14%)	0	158,100	493,300	0	0	0	651,400
Expenses Total		**0**	**1,287,500**	**4,017,000**	**0**	**0**	**0**	**5,304,500**

CIPWT00022: Gabbert Seismic Piping

Description: This project replaces existing non-restrained joint ductile iron piping with specially designed earthquake resistant ductile iron piping. Approximately 1,323 linear feet of 8-inch ductile iron pipe will be replaced with 8-inch earthquake resistant ductile iron piping. This project is located on Gabbert Hill on the South side of Gresham. The pipelines to be replaced run between the reservoir and the Gabbert pump station which supplies water to this area of the City.

Justification: In 2016 the City completed a water system seismic resiliency study and prepared a plan consistent with the recommendation of the 2013 State of Oregon Resilience Plan. This pipeline has been identified with a high risk of failure by the City's plan. replacement to help assure continued water system operation in the event of a significant earthquake. (Existing / Future Customers Benefited: 100% / 0%).

Type of Project: Repair and rehabilitation of facilities and utilities.



Estimated Dollars:

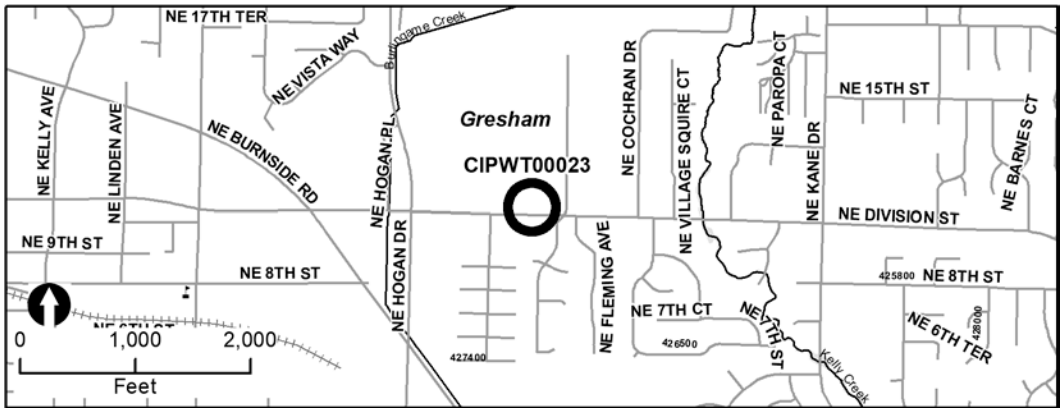
Funds	Description	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	Total
Resources	Repair/Replacement Reserves	0	0	175,000	400,000	0	0	575,000
Resources Total		**0**	**0**	**175,000**	**400,000**	**0**	**0**	**575,000**
Expenses	Design/Const Admin	0	0	29,800	68,000	0	0	97,800
	Construction	0	0	123,700	282,900	0	0	406,600
	Admin (14%)	0	0	21,500	49,100	0	0	70,600
Expenses Total		**0**	**0**	**175,000**	**400,000**	**0**	**0**	**575,000**

CIPWT00023: Division Pump Station Seismic Upgrade

Description: This project upgrades the seismic resilience of the Division Pump Station by replacing the building structure and other recommended improvements. This project was identified in the 2016 Water System Resilience Plan. The Resilience Plan provided a preliminary evaluation of the pump station and associated appurtenances. The scope of this project will include a detailed analysis, engineering design and construction.

Justification: In 2016, the City completed a water system seismic resiliency study and prepared a plan consistent with the recommendation of the 2013 State of Oregon Resilience Plan. This pump station has been identified with a high risk of failure by the City's plan. Improving the seismic resilience of the pump station will help assure continued water system operation in the event of a significant earthquake. (Existing / Future Customers Benefited: 100% / 0%).

Type of Project: Repair and rehabilitation of facilities and utilities.



Estimated Dollars:

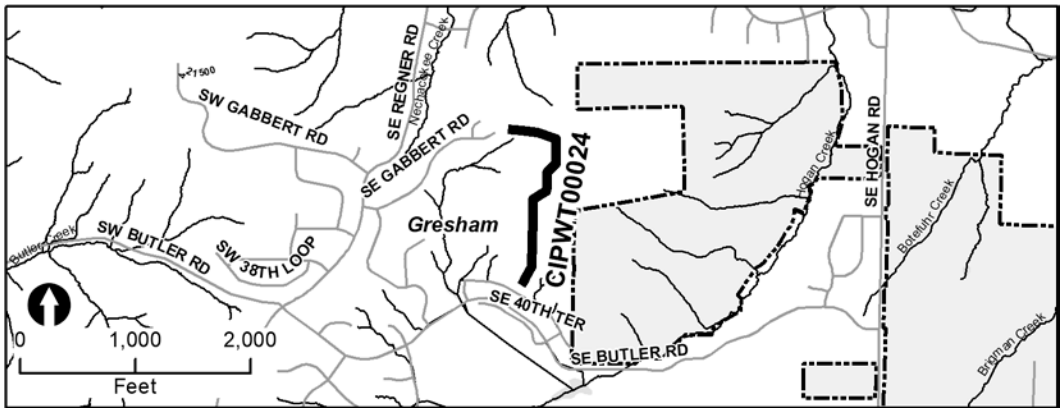
Funds	Description	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	Total
Resources	Operating	0	0	0	0	200,000	0	200,000
	Repair/Replacement Reserves	0	0	0	150,000	0	0	150,000
Resources Total		**0**	**0**	**0**	**150,000**	**200,000**	**0**	**350,000**
Expenses	Design/Const Admin	0	0	0	22,500	30,000	0	52,500
	Construction	0	0	0	109,100	145,400	0	254,500
	Admin (14%)	0	0	0	18,400	24,600	0	43,000
Expenses Total		**0**	**0**	**0**	**150,000**	**200,000**	**0**	**350,000**

CIPWT00024: South Hills Seismic Pipeline

Description: This project replaces existing non-restrained joint ductile iron piping with specially designed earthquake resistant ductile iron piping. Approximately 1,258 linear feet of 16-inch ductile iron pipe will be replaced with 16-inch earthquake resistant ductile iron piping. This project is located on Hogan Butte on the East side of Gresham. The pipelines are the inlet / outlet piping of the South Hills reservoir along the steep slope areas of Hogan Butte which supplies water to the upper elevations of Southeast Gresham.

Justification: In 2016, the City completed a water system seismic resiliency study and prepared a plan consistent with the recommendation of the 2013 State of Oregon Resilience Plan. This pipeline has been identified with a high risk of failure by the City's plan. Replacement will help assure continued water system operation in the event of a significant earthquake. (Existing / Future Customers Benefited: 100% / 0%).

Type of Project: Repair and rehabilitation of facilities and utilities.



Estimated Dollars:

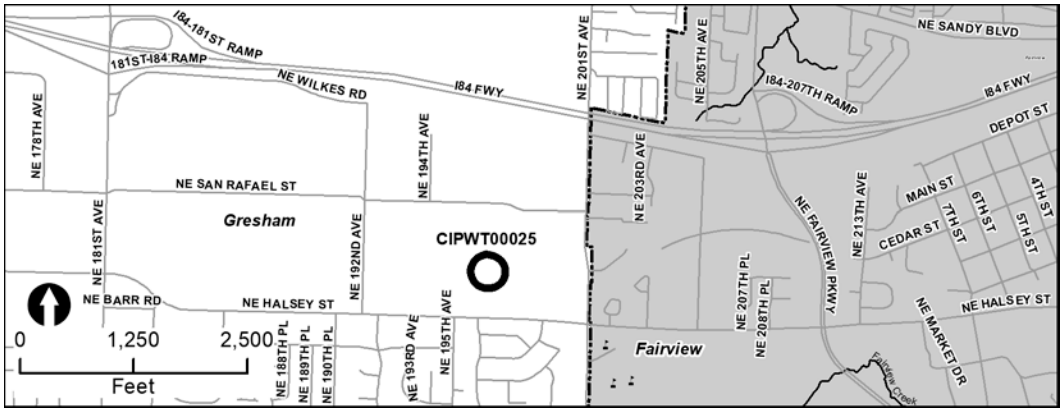
Funds	Description	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	Total
Resources	Operating	0	0	0	0	390,000	700,000	1,090,000
Resources Total		**0**	**0**	**0**	**0**	**390,000**	**700,000**	**1,090,000**
Expenses	Design/Const Admin	0	0	0	0	58,500	105,000	163,500
	Construction	0	0	0	0	283,600	509,000	792,600
	Admin (14%)	0	0	0	0	47,900	86,000	133,900
Expenses Total		**0**	**0**	**0**	**0**	**390,000**	**700,000**	**1,090,000**

CIPWT00025: Cascade Reservoir #1 Rehabilitation

Description: The purpose of this project is to rehabilitate Cascade Reservoir No. 1. This includes structural, mechanical and painting work needed to repair damage caused by corrosion. The aeration and ventilation system is being upgraded and the interior ladder access needs replacement. The City of Gresham is paying one-half of the design and construction costs of this project.

Justification: Cascade Reservoir No. 1 functions as a clear well and is operated and maintained by Rockwood Water People's Utility District (RWPUD) as part of the Cascade Groundwater Treatment Facility. The City of Gresham owns one-half of this facility per an Intergovernmental Agreement with RWPUD. This project is needed in order to continue to operate the groundwater treatment and distribution system. (Existing / Future Customers Benefited: 100% / 0%).

Type of Project: Repair and rehabilitation of facilities and utilities.



Estimated Dollars:

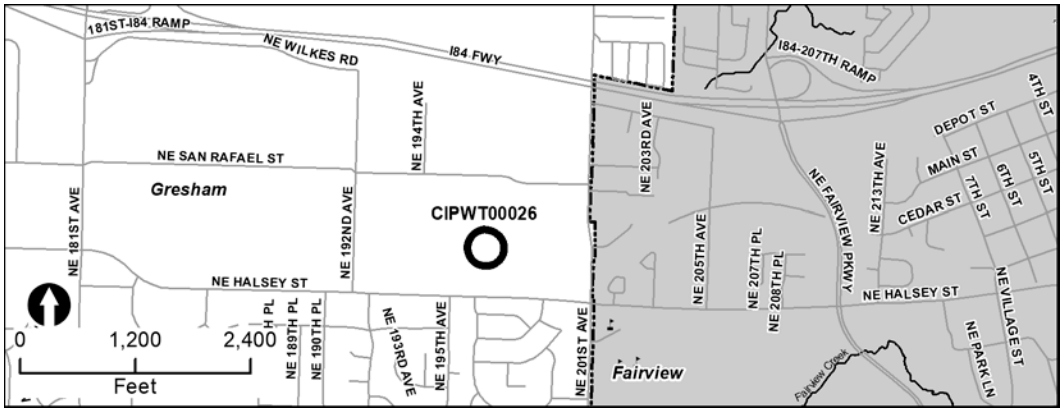
Funds	Description	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	Total
Resources	Debt-Operating	0	1,416,250	0	0	0	0	1,416,250
Resources Total		**0**	**1,416,250**	**0**	**0**	**0**	**0**	**1,416,250**
Expenses	Design/Const Admin	0	198,300	0	0	0	0	198,300
	Construction	0	1,044,050	0	0	0	0	1,044,050
	Admin (14%)	0	173,900	0	0	0	0	173,900
Expenses Total		**0**	**1,416,250**	**0**	**0**	**0**	**0**	**1,416,250**

CIPWT00026: Cascade Pump Station Improvements

Description: The purpose of this project is to increase the pumping capacity of the Cascade Pump Station. This includes structural, mechanical and electrical work needed to expand the pump station in order to deliver additional groundwater supply to water customers. The City of Gresham is paying one-half of the design and construction costs of this project.

Justification: The Cascade Pump Station delivers groundwater to the City of Gresham and is operated and maintained by Rockwood Water People's Utility District (RWPUD) as part of the Cascade Groundwater Treatment Facility. The City of Gresham owns one-half of this facility per an Intergovernmental Agreement with RWPUD. This project is needed in order to allow the City to develop additional groundwater resources and achieve water independence. (Existing / Future Customers Benefited: 79% / 21%).

Type of Project: Construction.



Estimated Dollars:

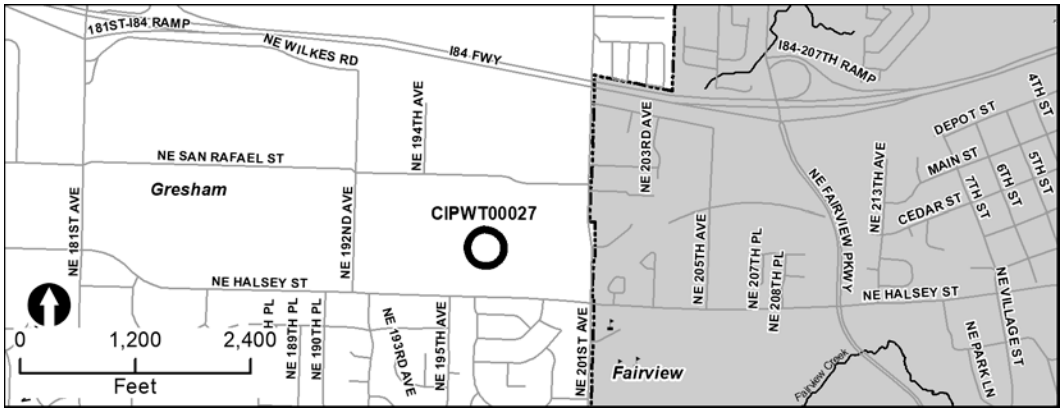
Funds	Description	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	Total
Resources	Debt-Operating	0	193,125	482,040	0	0	0	675,165
	Debt-SDC	0	0	120,510	0	0	0	120,510
Resources Total		**0**	**193,125**	**602,550**	**0**	**0**	**0**	**795,675**
Expenses	Design/Const Admin	0	27,000	84,400	0	0	0	111,400
	Construction	0	142,425	444,150	0	0	0	586,575
	Admin (14%)	0	23,700	74,000	0	0	0	97,700
Expenses Total		**0**	**193,125**	**602,550**	**0**	**0**	**0**	**795,675**

CIPWT00027: Cascade Reservoir #2

Description: The purpose of this project is to construct a second clear well storage reservoir for the Cascade Groundwater Treatment Facility. This tank is designed to be a 4 MG reservoir and will allow Cascade Reservoir #1 to be taken off-line for maintenance now and with future system operation. The City of Gresham is paying one-half of the design and construction costs of this project.

Justification: Cascade Reservoir #2 will be operated and maintained by Rockwood Water People's Utility District (RWPUD) as part of the Cascade Groundwater Treatment Facility. The City of Gresham owns one-half of this facility per an Intergovernmental Agreement with RWPUD. This project is needed in order to allow the City to develop additional groundwater resources and achieve water independence. (Existing / Future Customers Benefited: 79% / 21%).

Type of Project: Construction



Estimated Dollars:

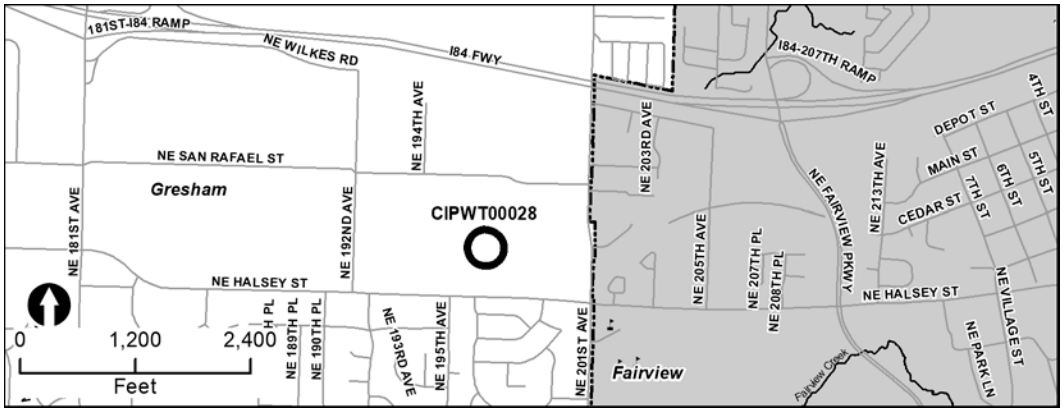
Funds	Description	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	Total
Resources	Debt-Operating	0	965,625	2,410,200	0	0	0	3,375,825
	Debt-SDC	0	0	602,550	0	0	0	602,550
Resources Total		**0**	**965,625**	**3,012,750**	**0**	**0**	**0**	**3,978,375**
Expenses	Design/Const Admin	0	135,200	421,800	0	0	0	557,000
	Construction	0	711,825	2,220,950	0	0	0	2,932,775
	Admin (14%)	0	118,600	370,000	0	0	0	488,600
Expenses Total		**0**	**965,625**	**3,012,750**	**0**	**0**	**0**	**3,978,375**

CIPWT00028: Cascade Groundwater Filtration System

Description: The purpose of this project is to construct a Groundwater Filtration system for the Cascade Groundwater Treatment Facility. These filters will be designed to remove contaminants from the water before delivery to water customers. The City of Gresham is paying one-half of the design and construction costs of this project.

Justification: The Filtration System will be operated and maintained by Rockwood Water People's Utility District (RWPUD) as part of the Cascade Groundwater Treatment Facility. The City of Gresham owns one-half of this facility per an Intergovernmental Agreement with RWPUD. This project is needed in order to allow the City to develop additional groundwater resources and achieve water independence. (Existing / Future Customers Benefited: 79% / 21%).

Type of Project: Construction



Estimated Dollars:

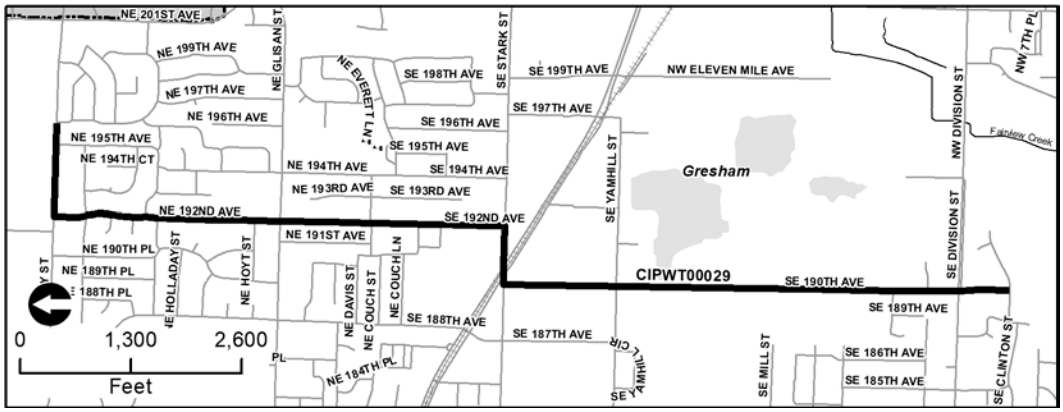
Funds	Description	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	Total
Resources	Debt-Operating	0	3,218,750	0	8,352,270	0	0	11,571,020
	Debt-SDC	0	0	0	2,088,068	0	0	2,088,068
Resources Total		**0**	**3,218,750**	**0**	**10,440,338**	**0**	**0**	**13,659,088**
Expenses	Design/Const Admin	0	450,600	0	1,461,600	0	0	1,912,200
	Construction	0	2,372,850	0	7,696,638	0	0	10,069,488
	Admin (14%)	0	395,300	0	1,282,100	0	0	1,677,400
Expenses Total		**0**	**3,218,750**	**0**	**10,440,338**	**0**	**0**	**13,659,088**

CIPWT00029: Groundwater Secondary Transmission Main

Description: The purpose of this project is to construct a second water transmission pipeline to bring water from the Cascade Groundwater Treatment Facility to the City of Gresham and Rockwood Water Peoples Utility District (RWPUD) distribution system. The City of Gresham is paying one-half of the design and construction costs of this project.

Justification: The existing 30-inch groundwater transmission main which connects the Cascade Pump Station to the distribution system is at capacity. The City of Gresham owns one-half of this facility per an Intergovernmental Agreement with RWPUD. The construction of a second transmission main will provide required additional capacity and redundancy. This project is needed in order to allow the City to develop additional groundwater resources and achieve water independence. (Existing / Future Customers Benefited: 79% / 21%).

Type of Project: Construction



Estimated Dollars:

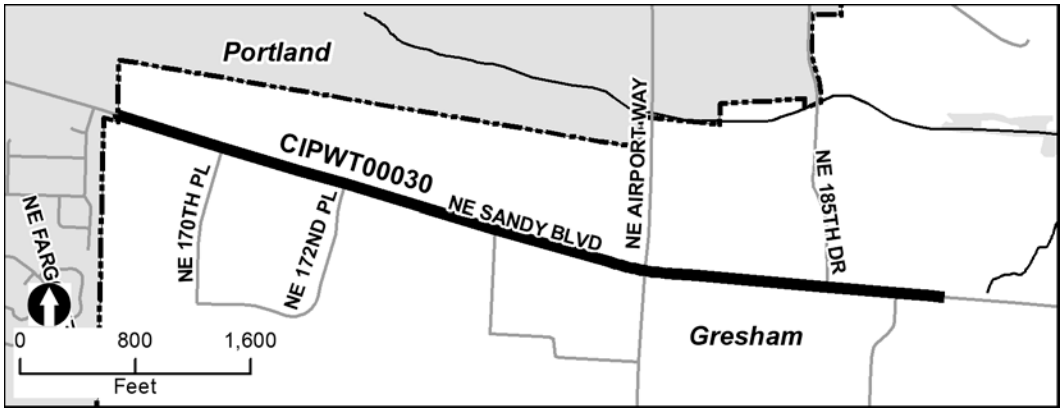
Funds	Description	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	Total
Resources	Debt-Operating	0	0	774,457	2,416,306	0	0	3,190,763
	Debt-SDC	0	0	193,614	604,076	0	0	797,690
Resources Total		**0**	**0**	**968,071**	**3,020,382**	**0**	**0**	**3,988,453**
Expenses	Design/Const Admin	0	0	135,500	422,900	0	0	558,400
	Construction	0	0	713,671	2,226,582	0	0	2,940,253
	Admin (14%)	0	0	118,900	370,900	0	0	489,800
Expenses Total		**0**	**0**	**968,071**	**3,020,382**	**0**	**0**	**3,988,453**

CIPWT00030: Columbia South Shore Connection

Description: The purpose of this project is to construct new water mains in the Columbia South Shore Service level to connect City of Gresham customers to the Cascade Groundwater supply. Many customers in this area are served by City of Gresham metered connections to water mains owned by the City of Portland. This project will construct new water lines in Sandy Boulevard and other locations in that area.

Justification: The Columbia South Shore Service level is currently served through metered connections to the City of Portland and Rockwood Water Peoples Utility District. This project will construct the water mains needed to serve City of Gresham Customers with Cascade Groundwater. This project is needed in order to allow the City to develop additional groundwater resources and achieve water independence. (Existing / Future Customers Benefited: 79% / 21%).

Type of Project: Construction



Estimated Dollars:

Funds	Description	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	Total
Resources	Debt-Operating	0	0	0	0	633,099	1,975,268	2,608,367
Resources Total		**0**	**0**	**0**	**0**	**633,099**	**1,975,268**	**2,608,367**
Expenses	Design/Const Admin	0	0	0	0	88,600	276,500	365,100
	Construction	0	0	0	0	466,799	1,456,168	1,922,967
	Admin (14%)	0	0	0	0	77,700	242,600	320,300
Expenses Total		**0**	**0**	**0**	**0**	**633,099**	**1,975,268**	**2,608,367**

CIPWT00031: Gresham's Well #4

Description: This project will construct a new production well and the infrastructure to deliver the water to the City's distribution grid.

Justification: The City of Gresham is developing additional groundwater resources in order to maintain adequate supply and achieve water independence. Currently the City has developed 5 MGD with Cascade Well #5. Per the recommendation of the Water Master Plan the City is planning to develop 15 MGD. This work is being done in partnership and under an Intergovernmental Agreement (IGA) with the Rockwood Water People's Utility District (RWPUD). (Existing / Future Customers Benefited: 79% / 21%).

Type of Project: Development of Source.

City Wide Project

Estimated Dollars:

Funds	Description	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	Total
Resources	Debt-Operating	0	0	0	1,092,727	3,409,308	0	4,502,035
	Debt-SDC	0	0	0	273,182	852,327	0	1,125,509
Resources Total		**0**	**0**	**0**	**1,365,909**	**4,261,635**	**0**	**5,627,544**
Expenses	Design/Const Admin	0	0	0	191,200	596,600	0	787,800
	Construction	0	0	0	1,007,009	3,141,635	0	4,148,644
	Admin (14%)	0	0	0	167,700	523,400	0	691,100
Expenses Total		**0**	**0**	**0**	**1,365,909**	**4,261,635**	**0**	**5,627,544**

CIPWT00032: Gresham's Well #5

Description: This project will construct a new production well and the infrastructure to deliver the water to the City's distribution grid.

Justification: The City of Gresham is developing additional groundwater resources in order to maintain adequate supply and achieve water independence. Currently the City has developed 5 MGD with Cascade Well #5. Per the recommendation of the Water Master Plan the City is planning to develop 15 MGD. This work is being done in partnership and under an Intergovernmental Agreement (IGA) with the Rockwood Water People's Utility District (RWPUD). (Existing / Future Customers Benefited: 79% / 21%).

Type of Project: Development of Source.

City Wide Project

Estimated Dollars:

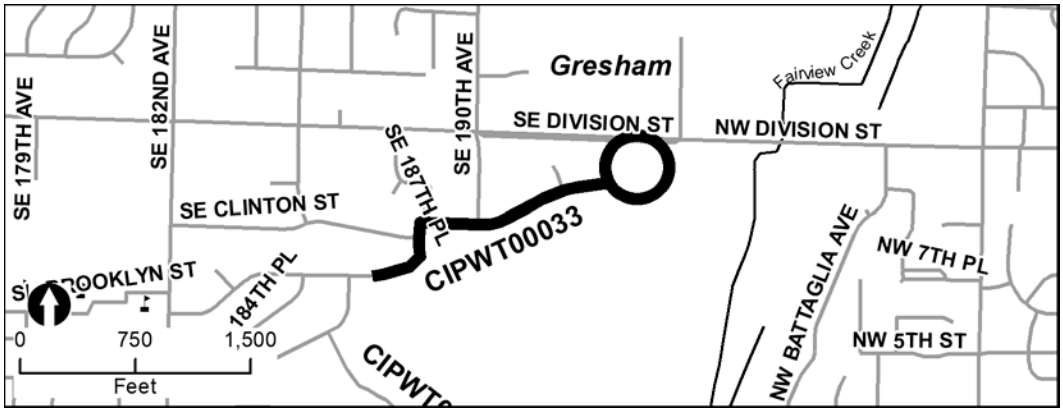
Funds	Description	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	Total
Resources	Debt-Operating	0	0	0	0	1,125,509	3,511,587	4,637,096
	Debt-SDC	0	0	0	0	281,377	877,897	1,159,274
Resources Total		**0**	**0**	**0**	**0**	**1,406,886**	**4,389,484**	**5,796,370**
Expenses	Design/Const Admin	0	0	0	0	197,000	614,500	811,500
	Construction	0	0	0	0	1,037,086	3,235,884	4,272,970
	Admin (14%)	0	0	0	0	172,800	539,100	711,900
Expenses Total		**0**	**0**	**0**	**0**	**1,406,886**	**4,389,484**	**5,796,370**

CIPWT00033: North Meter Station and Pipeline Improvements

Description: The purpose of this project is to construct structural and mechanical improvements to the North Meter station to allow the City of Gresham to bring additional ground water supplies into the distribution system primarily from the Secondary Groundwater Transmission main. This project also completes piping replacement needed from North Meter to the Grant Butte Reservoir. Some of this piping was replaced with the Seismic Upgrade project.

Justification: The North Meter Station was originally constructed to connect to the City of Portland, Bull Run Conduits. It was retrofit in 2008 to incorporate the groundwater supply from Cascade Well #5. This project is needed in order to allow the City to develop additional groundwater resources and achieve water independence. (Existing / Future Customers Benefited: 79% / 21%).

Type of Project: Construction



Estimated Dollars:

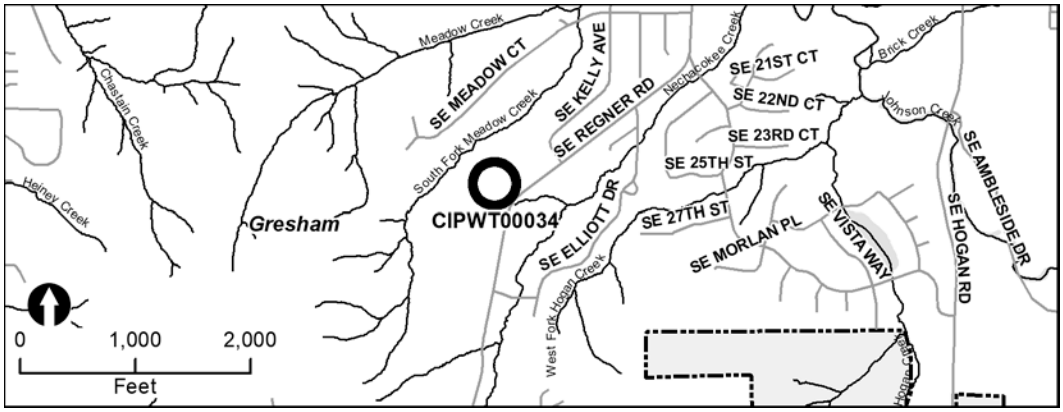
Funds	Description	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	Total
Resources	Debt-Operating	0	0	0	819,545	2,556,981	0	3,376,526
	Debt-SDC	0	0	0	204,887	639,245	0	844,132
Resources Total		**0**	**0**	**0**	**1,024,432**	**3,196,226**	**0**	**4,220,658**
Expenses	Design/Const Admin	0	0	0	143,400	447,500	0	590,900
	Construction	0	0	0	755,232	2,356,226	0	3,111,458
	Admin (14%)	0	0	0	125,800	392,500	0	518,300
Expenses Total		**0**	**0**	**0**	**1,024,432**	**3,196,226**	**0**	**4,220,658**

CIPWT00034: Regner Reservoir Seismic Upgrade

Description: The purpose of this project is to retrofit the existing Regner reservoir to comply with current seismic codes and meet the goals of the Seismic Resilience Plan; the improvements reduce the height of the water stored in the reservoir to prevent damage to the roof structure, reinforce the walls to resist damage in a significant seismic event, and modifies inlet/outlet piping for additional resilience. This project is located on Regner Road on the South side of Gresham.

Justification: In 2016 the City completed a water system seismic resiliency study and prepared a plan consistent with the recommendation of the 2013 State of Oregon Resilience Plan. Replacement of these pipeline is one of the highest priority projects identified by the City's plan in order to help assure continued water system operation in the event of a significant earthquake. (Existing / Future Customers Benefited: 100% / 0%).

Type of Project: Construction



Estimated Dollars:

Funds	Description	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	Total
Resources	Debt-Operating	0	0	0	0	0	420,000	420,000
Resources Total		**0**	**0**	**0**	**0**	**0**	**420,000**	**420,000**
Expenses	Design/Const Admin	0	0	0	0	0	58,800	58,800
	Construction	0	0	0	0	0	309,600	309,600
	Admin (14%)	0	0	0	0	0	51,600	51,600
Expenses Total		**0**	**0**	**0**	**0**	**0**	**420,000**	**420,000**

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Water Unfunded and Future Summary

Project	Project Name	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	Total
420550	NE 3rd Street (NE Hood to NE Cleveland)	0	0	0	0	0	0	640,000
425500	Salquist Water Line - East	0	0	0	0	0	0	735,012
428400	Exploratory Well Drilling	0	0	0	0	0	0	1,784,929
428500	Production Wells	0	0	0	0	0	0	12,544,608
428600	Fire Flow Improvements	0	0	0	0	0	0	4,714,277
429900	SE Stark/Rene	0	0	0	0	0	0	708,130
431000	Standby Power Facilities	0	0	0	0	0	0	329,941
431100	SW Pleasant View Drive/190th between SW 31st & 40th	0	0	0	0	0	0	582,461
431300	Kane Road (NE 18th - NE 23rd)	0	0	0	0	0	0	750,000
CIPWT00012	Walters Hill Reservoir and Pump Station Abandonment	0	0	0	0	0	0	500,000
Grand Total		**0**	**0**	**0**	**0**	**0**	**0**	**23,289,358**

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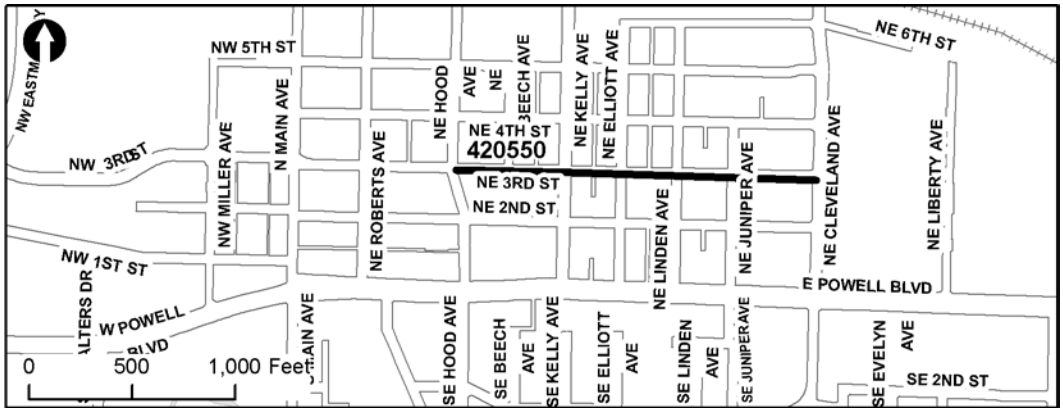
420550: NE 3rd Street (NE Hood to NE Cleveland)

Description: This project constructs 1,700 linear feet of 12" D.I. Waterline in the Grant Butte Service Level. In 2008/2009 part of this project was completed to accommodate the construction of the new Center for the Arts Plaza project. The first phase of replacement was between NE Hood and NE Kelly. The remaining section between NE Kelly and NE Cleveland is still needed. This project is located in the Central City Neighborhood District.

Justification: The adopted Water Master plan calls for the installation of an upsized water main along 3rd Street in front of the future Center for the Arts Plaza renovation. Fire flows in this area are not adequate for the current zoning designations. (Existing / Future Customers Benefited: 25% / 75%)

Type of Project: Construction of facilities and utilities for growth.



Estimated Dollars:

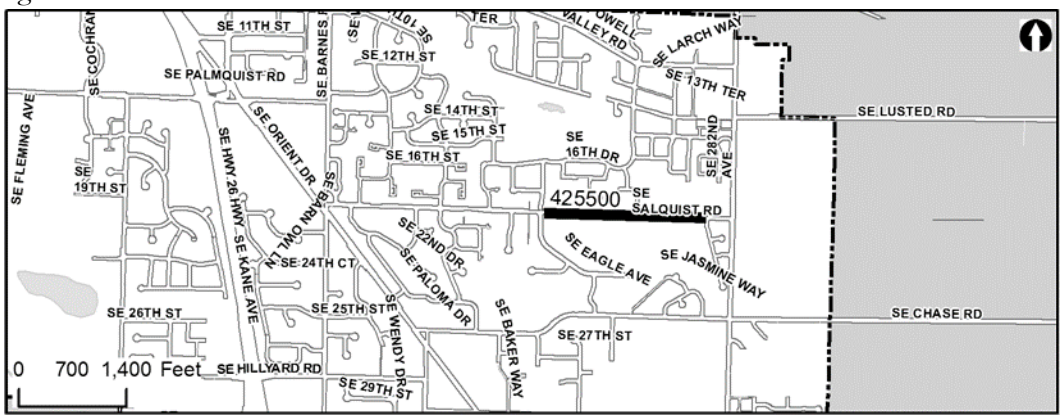
Funds	Description	Total
Resources	Operating	640,000
Resources Total		**640,000**
Expenses	Design/Const Admin	147,200
	Construction	414,200
	Admin (14%)	78,600
Expenses Total		**640,000**

425500: Salquist Water Line - East

Description: This project installs 1500 LF of 12-inch D.I. pipe on SE Salquist Road between SE Glacier Ave. and SE Night Heron Way. This is the second phase of a comprehensive pipeline replacement project on SE Salquist Road between SE Orient Drive and SE 282nd Avenue. This project serves the Lusted Service Level and is located in the Kelly Creek Neighborhood District.

Justification: Much of the existing waterline on SE Salquist Road is currently undersized and unable to provide an adequate level of service for the new development that is occurring in this area. Additionally, much of the older sections of the pipeline have proven to require more maintenance and repair work in recent years. This project when completed will provide a critical link between the Salquist Pump Station and the Wheeler Reservoir (as well as the rest of the Lusted Service Level). To fully utilize the new groundwater supply resource, the City needs to have larger diameter distribution mains as a backbone to move water west to east from the Grant Butte Service Level (where the groundwater is introduced into the distribution system) to the Lusted Service Level through the Salquist Pump Station. (Existing/Future Customers Benefited 20% / 80%)

Type of Project: Construction of facilities and utilities to correct existing deficiencies and provide for future growth.



Estimated Dollars:

Funds	Description	Total
Resources	Debt-Operating	735,012
Resources Total		**735,012**
Expenses	Design/Const Admin	73,501
	Construction	581,123
	Admin (14%)	80,388
Expenses Total		**735,012**

428400: Exploratory Well Drilling

Description: This project will identify six locations for potential well development and construct test wells. The information gathered from the test wells will be used to evaluate which wells would be most advantageous for the City to develop into production wells. Currently the City has developed 5 MGD of the potential 10 MGD groundwater capacity under the Intergovernmental Agreement (IGA) with the Rockwood Water People Utility District (RWPUD). The recently completed Master Plan recommended potentially nine test wells to develop the capacity under the IGA as well as an additional 4.8 MGD to meet projected demand in 2031. The first three test wells are identified as Test Wells in the funded CIP. SDC project #ST1.

Justification: The City of Gresham currently is allocated 10 MGD groundwater capacity under the (IGA) with the (RWPUD). This agreement was developed to maintain adequate source redundancy and supplement source capacity during peak demand times. Currently the City has developed 5 MGD of the allocated capacity through the construction of Cascade Well #5. (Existing / Future Customers Benefited: 79% / 21%)

Type of Project: Development of source water.

City Wide Project

Estimated Dollars:

Funds	Description	Total
Resources	Operating	1,684,667
	SDC	100,262
Resources Total		**1,784,929**
Expenses	Design/Const Admin	196,353
	Construction	1,369,393
	Admin (14%)	219,183
Expenses Total		**1,784,929**

428500: Production Wells

Description: This project will construct potentially seven production wells and the infrastructure to deliver the water to the City's distribution grid. Currently the City has developed 5 MGD of the potential 10 MGD groundwater capacity under the Intergovernmental Agreement (IGA) with the Rockwood Water People Utility District (RWPUD) The recently completed Master Plan recommended potentially seven production wells to develop the capacity under the IGA as well as an additional 4.8 MGD to meet projected demand in 2031. SDC project #ST2.

Justification: The City of Gresham currently is allocated 10 MGD groundwater capacity under the (IGA) with the (RWPUD). This agreement was developed to maintain adequate source redundancy and supplement source capacity during peak demand times. Currently the City has developed 5 MGD of the allocated capacity through the construction of Cascade Well #5. (Existing / Future Customers Benefited: 79% / 21%)

Type of Project: Development of source water.

City Wide Project

Estimated Dollars:

Funds	Description	Total
Resources	Operating	9,800,722
	SDC	2,743,886
Resources Total		**12,544,608**
Expenses	Design/Const Admin	1,379,918
	Property Acq	314,165
	Construction	9,309,965
	Admin (14%)	1,540,560
Expenses Total		**12,544,608**

428600: Fire Flow Improvements

Description: This project will replace existing infrastructure to enhance fire flow capacity to meet current City standards. SDC project #FF.

Justification: The Master Plan completed in 2012 and the Capital Maintenance Plan identified areas that currently do not meet City standards for fire flow capacity.

Type of Project: Repair and rehabilitation of facilities and utilities.

City Wide Project

Estimated Dollars:

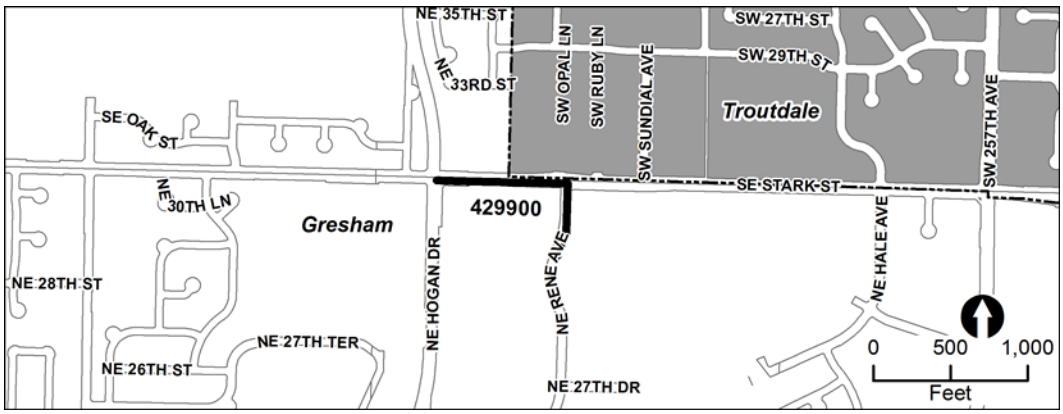
Funds	Description	Total
Resources	Operating	3,073,550
	SDC	1,640,727
Resources Total		**4,714,277**
Expenses	Design/Const Admin	518,582
	Construction	3,616,794
	Admin (14%)	578,901
Expenses Total		**4,714,277**

429900: SE Stark/Rene

Description: This project replaces approximately 1350 linear feet of 8- inch and 6-inch CI pipe with 12-inch DI and 8-inch DI pipe. The limits of this project are SE Stark St. between NE Hogan Dr. and NE Rene Ave, and NE Rene Avenue between SE Stark and approximately 475 feet south. This project was identified in the 2012 Master Plan.

Justification: This project will replace a section of water line on SE Stark Street and NE Rene Avenue Ave. that is undersized and does not provide adequate fire flow. Upsizing these lines will bring this section up to code and will meet current fire flow requirements.

Type of Project: Repair and rehabilitation of facilities and utilities.



Estimated Dollars:

Funds	Description	Total
Resources	Repair/Replacement	708,130
Resources Total		**708,130**
Expenses	Design/Const Admin	116,842
	Construction	504,324
	Admin (14%)	86,964
Expenses Total		**708,130**

431000: Standby Power Facilities

Description: This project installs on-site diesel or natural gas generators at the Main Street and Gabbert Pump Stations. SDC project #PF3.

Justification: This project will construct new stand by power facilities at two critical pump stations in the City's water system. These facilities will prevent loss of service and system damage in the event of a grid power failure at these sites. (Existing / Future Customers Benefited: 79% / 21%).

Type of Project: Construction of facilities and utilities for growth.

City Wide Project

Estimated Dollars:

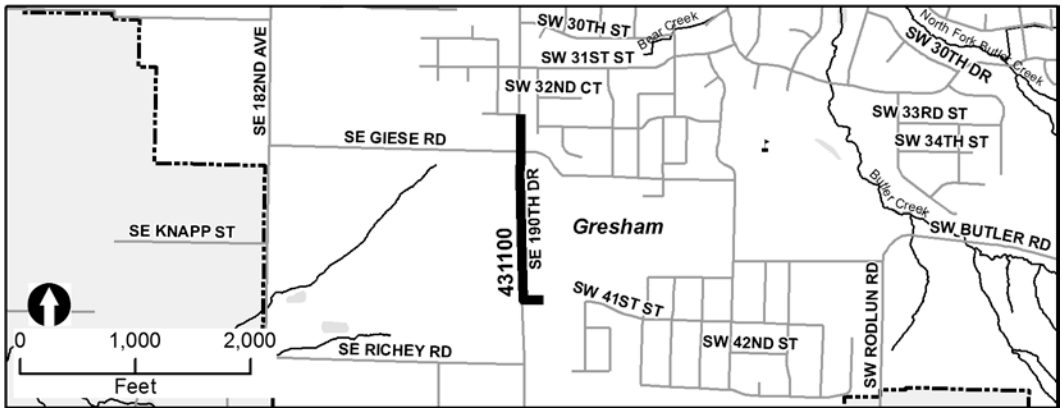
Funds	Description	Total
Resources	Operating	261,070
	SDC	68,871
Resources Total		**329,941**
Expenses	Design/Const Admin	46,182
	Construction	243,232
	Admin (14%)	40,527
Expenses Total		**329,941**

431100: SW Pleasant View Drive/190th between SW 31st & 40th

Description: This project installs 2,190 L.F. of 12" D.I. waterline. This project will extend the 12" main in SW 41st Street west to SW Pleasant View Drive/190th. The project will also run along SW Pleasant View Drive/190th between SW 33rd and 41st Streets. SDC project #HH1.

Justification: This project provide transmission capacity and looping in the Central portion of the Pleasant Valley Plan District on the South side of the Hunters Highland Service Level to support future development and provide fire flow capacity for future customers. When constructed this waterline will serve as part of the "backbone" system to deliver Hunters Highland Service Level water to the Pleasant Valley development area. (Existing / Future Customers Benefited: 0% / 100%).

Type of Project: Construction of facilities and utilities for growth.



Estimated Dollars:

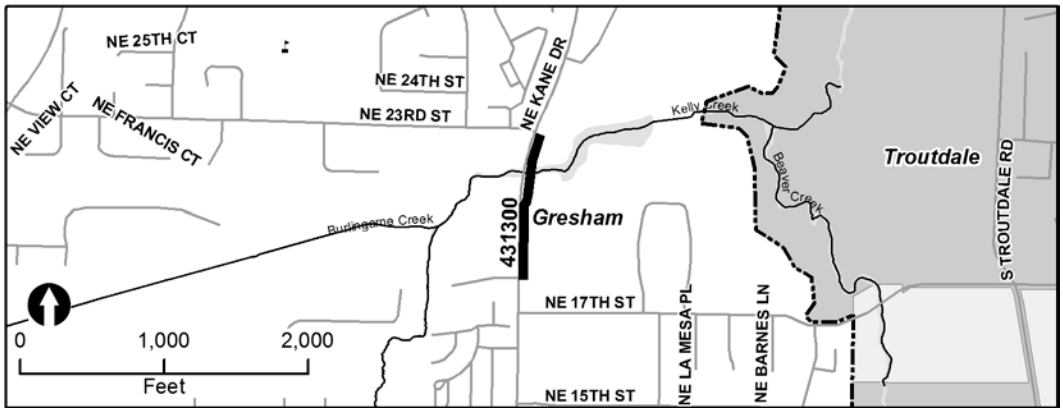
Funds	Description	Total
Resources	Operating	460,879
	SDC	121,582
Resources Total		**582,461**
Expenses	Design/Const Admin	81,578
	Construction	429,358
	Admin (14%)	71,525
Expenses Total		**582,461**

431300: Kane Road (NE 18th - NE 23rd)

Description: This project replaces approximately 1000 linear feet of 8- inch CI pipe with 8-inch DI pipe. The limits of this project are Kane Rd between NE 18th and NE 23rd. This project replaces waterline that does not meet the State requirements for separation between a sewer pressure main and a waterline.

Justification: This project will replace a section of water line on Kane Rd. that currently does not meet State requirements for separation between pressurized sanitary mains and waterline.

Type of Project: Repair and rehabilitation of facilities and utilities.



Estimated Dollars:

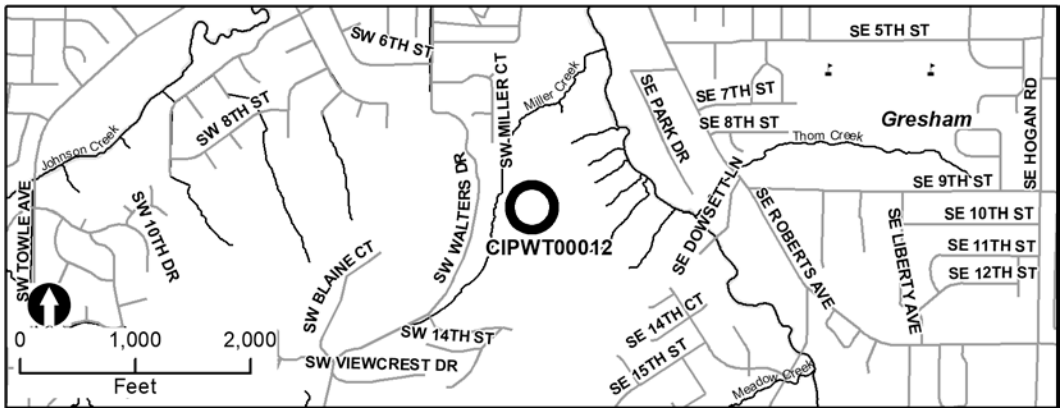
Funds	Description	Total
Resources	Repair/Replacement	750,000
Resources Total		**750,000**
Expenses	Design/Const Admin	131,500
	Construction	526,394
	Admin (14%)	92,106
Expenses Total		**750,000**

CIPWT00012: Walters Hill Reservoir and Pump Station Abandonment

Description: This project abandons both the Walters Hill Reservoir and Pump Station.

Justification: Both the Walters Hill Pump Station and Reservoir have been replaced by the Gabbert Pump Station and Gabbert Reservoir and have not been used for years. The reservoir is a partially buried concrete reservoir and is potentially a safety hazard for trespassers.

Type of Project: Construction.



Estimated Dollars:

Funds	Description	Total
Resources	Debt-Operating	500,000
Resources Total		**500,000**
Expenses	Design/Const Admin	138,900
	Construction	299,647
	Admin (14%)	61,453
Expenses Total		**500,000**