

13 Capital Facilities

13.1 Introduction

The Capital Facilities Element of the Comprehensive Plan ensures that adequate facilities and services are available to serve both current residents and businesses, as well as future growth as outlined in the Land Use Element. Capital facilities typically have a long lifespan and include systems owned by the City, other public agencies, or private entities. This element outlines policies for managing, financing, and coordinating capital improvements for facilities and utilities the City operates and describes Gig Harbor's relationship with external urban service providers.

Additionally, the Capital Facilities Element ensures that these essential services—including water, sewer, stormwater, transportation, schools, parks, and emergency services—are available to meet the city's evolving needs efficiently, effectively, and equitably. These policies guide public agencies, including the City, and inform private development decisions to support anticipated growth while complying with the Growth Management Act.

Note that this element has significant crossover with other elements in the Plan, primarily:

- Essential Public Facilities (Chapter 8);
- Utilities (Chapter 9);
- Parks, Recreation, and Open Space (Chapter 11); and
- Transportation (Chapter 12);

However, note that other components of the Comprehensive Plan will also be impacted by this topic. Land use and housing may be affected by considerations of concurrency to ensure public facilities and services (primarily transportation) are available to serve new developments or have funding secured for completion.

13.2 Requirements

13.2.1 GMA Requirements

Capital planning is required by the GMA and must be coordinated with the City's larger land use planning process. Per [WAC 365-196-415](#), at a minimum, those capital facilities to be included in an inventory and analysis are:

- Transportation,
- Water systems,
- Sewer systems,
- Stormwater systems,

- Reclaimed water facilities,
- Schools,
- Parks and recreation facilities, and
- Police and fire protection facilities.

The GMA establishes five requirements for this element, which are to:

- Provide an inventory of facilities;
- List a forecast of needs;
- Show proposed locations and capacity of planned facilities;
- Provide a financing plan for needed facilities; and
- Reassess planned facilities if they cannot be provided and paid for.

13.2.2 VISION 2050

The VISION 2050 Regional Growth Strategy provided by the PSRC includes broad policies for capital facilities, primarily under transportation (MPP-T) and public services (MPP-PS). These include considerations of the following:

- **Environmental Protection and Resource Efficiency:** Investments in capital facilities will need to promote environmental conservation, public health, and resource efficiency in the provision of services. Communities should encourage renewable energy, water conservation, recycling, waste reduction, and demand-side measures to reduce the need for new investment.
- **Equitable Access and Affordability:** Planning efforts should ensure public services are affordable and accessible, particularly for underserved communities. Communities should prioritize investments that address disparities and improve service coordination.
- **Growth Management:** Urban growth should be guided by cities through the timing and phasing of services to support development, while limiting urban services in rural areas to prevent sprawling development patterns.
- **Resilience:** Communities should invest in resilient infrastructure, renewable energy, and disaster-preparedness as they relate to maintaining services in cases of severe disruption and long-term challenges with providing regular services. Note that these disruptions would include the expected effects of climate change on the community.

For more details, refer to the VISION 2050 Regional Growth Strategy and associated policies.

13.2.3 Countywide Planning Policies

Under the Pierce County Countywide Planning Policies, there are several considerations which must be incorporated in the development of the Capital Facilities Element:

- Capital facilities planning by the city must be coordinated with local education service providers and associated planning for facilities. (ED-3, ED-4, and ED-5)

- The city shall coordinate with other jurisdictions on capital investments to improve environmental quality that can achieve economic, human health, and natural benefits, especially as related to environmentally sensitive lands. (ENV-5 and ENV-10)
- Watersheds should be considered as part of capital facilities planning. (ENV-23)
- The siting of essential public facilities must be consistent with capital facilities planning and budgeting. (EPF-5).
- Needs for schools, sewer, water, parks, and roads within Urban Growth Areas must be incorporated through level of service (LOS) and concurrency standards in capital facilities plans. (UGA-12)
- The city must adopt measures to ensure that growth and development are supported by adequate public facilities and services through timing and phasing of capital investments. Special purpose districts shall conform to the element. (UGA-13)

In addition to these requirements, there are several additional requirements for investment transportation and parks that are examined in those respective sections.

13.3 System Conditions

13.3.1 Levels of Service (LOS)

Standards

The Capital Facilities Element identifies LOS standards for public services that are dependent on specific facilities. Level of service establishes a minimum capacity of capital facilities that must be provided per unit of demand or other appropriate measure of need. These standards are then used to determine whether a need for capacity improvements currently exists and what improvements will be required to maintain the policy levels of service under anticipated conditions over the life of the Comprehensive Plan.

Current level of service standards for capital facilities in Gig Harbor are summarized in Exhibit 13-1 below.

Concurrency




Concurrency is a key principle under the GMA. Requirements for concurrency ensure that public facilities and services are available to serve new developments. Under this policy framework, necessary improvements, particularly in transportation, are in place at the time of development or have funding secured for completion within six years of a development.

Local jurisdictions evaluate current LOS for public services and infrastructure versus standards to determine if existing systems can accommodate new development impacts or if additional facilities are needed. Transportation facilities are the only type of system where a drop below identified thresholds can result in development being denied according to statute, but note that the Pierce County Countywide Planning Policies also require that these standards be established for schools, sewer, potable water, and parks.

Exhibit 13-1. Gig Harbor Level of Service Standards

Capital Facility	LOS Standard	Provider	Reference
Parks	Per 1,000 residents: 5.0 acres of neighborhood and community parks, 1.0 acres of waterfront parks, 5.25 acres of natural areas, and 1.17 miles of trails.	City of Gig Harbor	2022 Parks, Recreation, and Open Space Plan
Potable Water	ERU targets by type. 30 psi throughout the distributions system during PHD.	City of Gig Harbor; individual water providers	2018 Comprehensive Water System Plan Update, Update April 2022
Sanitary Sewer	ERU targets by type. WWTP - limited capacity to treat wastewater. Water CRC process. Phase II WWP improvements.	City of Gig Harbor	Comprehensive Plan Utilities Element
Stormwater	On-site infiltration expected. Treatment as required by DOE Stormwater manual.	City of Gig Harbor	Comprehensive Plan Utilities Element
Fire Protection	Classification A: 1,000 gallons per minute (gpm) for two hours for single-family detached and duplex dwellings in residential zones. Classification B: Commercial and multi-family fire protection: 3,000 gallons per minute (gpm) for three hours for industrial, multi-family and commercial zones.	Gig Harbor Fire & Medic One Building and Fire Safety Department, City of Gig Harbor	2018 Comprehensive Water System Plan Update, Update April 2022
Library Services	0.62 sq. ft. per capita	Pierce County Library District	Pierce County Library 2030 Facilities Master Plan

Exhibit 13-2. Transportation Level of Service Standards – Pedestrian Priority Network

LOS Standards	Principal and Minor Arterials; Collectors (within CoLIs or 0.5 mile of a school)
 (green)	Pedestrian facilities* available on both sides of the street
 (yellow)	Pedestrian facilities available on one side of the street
 (red)	No pedestrian facilities available

*Pedestrian facility includes sidewalks and shoulders protected by a raised curb.

Exhibit 13-3. Transportation Level of Service Standards - Bicycle Priority Network




LOS Standards	Arterials	Collectors
 (green)	Shared use path or a buffered bike lane on both sides of street.	Conventional bike lanes on either sides of street or a shared use path.
 (yellow)	Conventional bike lanes on both sides of the street, or a shared use path or buffered bike lanes within 700 feet.	Fog lines on both sides of the street.
 (red)	None of the above facilities are provided, or facilities are on one side.	None of the above facilities are provided, or facilities are on one side.

Exhibit 13-4. Transportation Level of Service Standards - Stop Amenities and Pedestrian Access




LOS Standards	Transit Stop Amenities	Pedestrian Access
 (green)	Provides high quality stop amenities (benches, shelters, garbage cans, lighting)	Sidewalks and marked crosswalks serving all stops
 (yellow)	Provides transit stop amenities where feasible	Sidewalks and marked crosswalks serving stops where feasible
 (red)	No amenities	General lack of sidewalks and marked crosswalks

Exhibit 13-5. Transportation Level of Service Standards – Auto LOS

Level of Service	Description	CONTROL DELAY (SECONDS/VEHICLE)	
		For signalized and roundabout controlled intersections	For unsignalized intersections
A	Free-flowing conditions	≤ 10	≤ 10
B	Stable operating conditions	10-20	10-15
C	Stable operating conditions, but individual motorists are affected by the interaction with other motorists	20-35	15-25
D	High density of motorists, but stable flow	35-55	25-35
E	Near-capacity	55-80	35-50
F	Over capacity, with delays	≥ 80	≥ 50

Source: Highway Capacity Manual, 6th Edition

For additional information on the Transportation Level of Service Standards, refer to Transportation Element Technical Appendix.

13.3.2 Water Systems

Existing Capital Facilities

The City of Gig Harbor is a provider to about two-thirds of the area within its retail water service area (RWSA) within city limits, with the remaining water services provided through other water purveyors. Exhibit 13-6 indicates multiple water management agencies serving the city and its UGA.

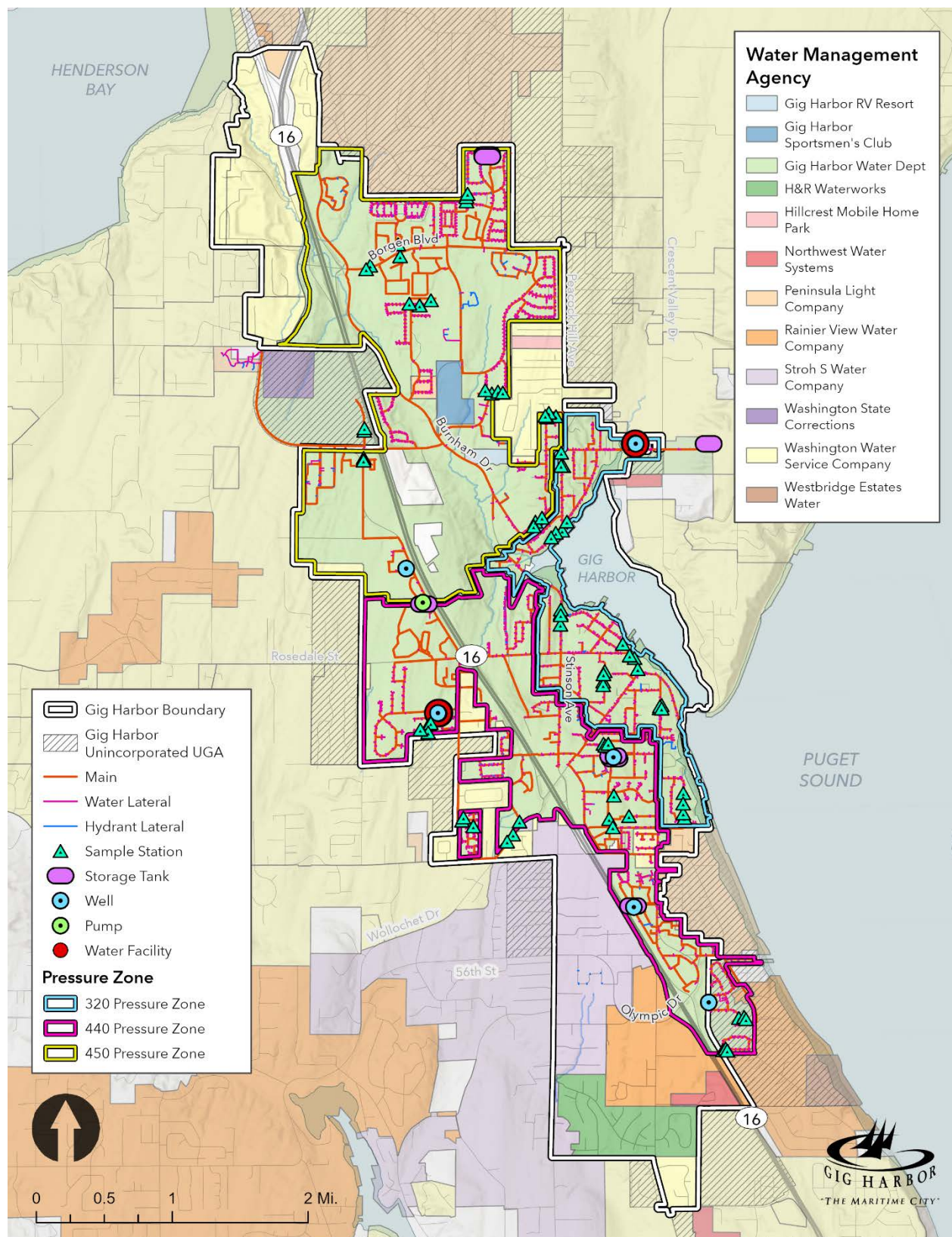
The City of Gig Harbor Water System was originally built in the late 1940's. Today, the City's RWSA encompasses approximately 4.45 square miles with 2,583 service connections at the end of 2017 serving approximately 9,632 people.

The city's water system is divided into three pressure zones. The City's water system contains six reservoirs, with a total capacity of 4.6 million gallons (MG). The city operates eight groundwater wells that supply water to its water service customers and has more than 43 miles of pipeline and six reservoirs located around the City. The City of Gig Harbor's water system boundary and adjacent purveyors are shown in Exhibit 13-6. Summaries of the City's well source supply and storage facilities are provided in Exhibit 13-7 and Exhibit 13-8, respectively, below. The City provides wholesale water service to multiple customers outside the City's RWSA and has an emergency intertie with one purveyor. The City also holds seven additive municipal purpose certificated water rights and one non-additive water permit.

The Water System Plan forecasts water demand within the RWSA to evaluate the system's ability to meet future water needs over the next ten to twenty years and identify priorities for system infrastructure projects. The City's current average day demand (ADD) is approximately 1.1 million gallons per day (mgd) and is expected to rise to 1.4-1.5 mgd by 2037. The current maximum daily demand (MDD) is approximately 2.5 mgd and is expected to rise to 3.1-3.6 mgd by 2037. With its current supply and water rights, the City has sufficient water rights to meet projected demand over the next twenty years. However, the City is exploring development of Well 9 to add redundancy to the water system.

As with most municipalities, the City's water distribution system has developed continuously as demands and the customer base have grown. This evolution has created a distribution system comprised of pipes of various materials, sizes, and ages. Some areas of the City have pipe materials, sizes, and age that do not meet current construction standards. A detailed description of the existing water supply system may be found in the City of Gig Harbor Water System Plan.

Exhibit 13-6. Gig Harbor Water System and Adjacent Purveyors.



Source: City of Gig Harbor, 2024.

Exhibit 13-7. Inventory of Gig Harbor Wells

Well Number	Pressure Zone Served	Date Well Drilled	Maximum Instantaneous Flow Rate (gpm)	Well Pumping Capacity (gpm)
1 ¹	320	1951	400	0
2	320	1963	330	272
3	440	1978	625	626
4	320	1988	230	159
5	440	1990	500	524
6	440	1991	1,000	1,019
8	440	1965	30	12
10 ²	320	--	330 ²	0 ²
11	450	2013	-- ³	1,000
Total Gallons per Minute (gpm)			3,115	3,612

¹ Well 1 and Well 10 are inactive.

² Well 10 is a test well and supplemental to Well 2.

³ Well 11 is supplemental to system wells.

Sources: Gig Harbor Comprehensive Water System Plan Update, 2018-2022; BERK, 2024.

Exhibit 13-8. Water System Storage Facilities

Name	Zone Served	Year Constructed	Nominal Volume (MG)
East Tank	320	1963	0.23
Twin Harbor Heights Tank No. 1	320	1962	0.25
Twin Harbor Heights Tank No. 2	320	1973	0.23
Shurgard Tank	440	1979	0.53
Skansie Tank	440	1989	1.13
North Gig Harbor Tank	450	2006	2.23
Total Storage (MG)			4.60

Sources: Gig Harbor Comprehensive Water System Plan Update, 2018-2022; BERK 2024.

Washington Water Service

A subsidiary of California Water Service Group, Washington Water Service (WWS) provides water utility services to 38,000 customers in the region and is the largest investor-owned water utility in the State. WWS operates the NW Regional Office in Gig Harbor, with numerous system connections that serve the Gig Harbor community and Kitsap Peninsula region. See Exhibit 13-9.

The WWS water service in Gig Harbor is divided into three service areas – East Pierce (formerly Rainier View Water), Gig Harbor, and Stroh's. In 2020, WWS acquired Rainier View Water Company, which provided water services adjacent to WWS East Gig Harbor operations. In 2023, WWS acquired Stroh's Water Company, which provided water service in the central and southwest Gig Harbor area to approximately 900 customers.

Peninsula Light Water

Along with electricity, Peninsula Light Company provides water services to Gig Harbor and the Key Peninsula to consolidate the independent water systems in the area. It has more than 3,000 water service members in its 112-square mile region.

The Shore Acres Water Company, a nonprofit which contracts services from Peninsula Light, provides water services to 235 customers over 140 acres as of 2023. Most customers are primarily of the city's UGA in the Reid Road area, with about 10% of its customers inside the city limits. Water is purchased wholesale from the City of Gig Harbor.

Thurston PUD

Thurston PUD provides water services to parts of Gig Harbor through the Qual Run 667 connection. The connection consists of two groundwater wells that produce over 16.7 million gallons of water and have 136,000 gallons of storage capacity. It serves approximately 200 water connections, with each household using an average of 226 gallons per day. Annual consumption is approximately 16.3 million gallons of water.

Level of Service

The City introduced a code requirement in January 2001 through Ordinance #862 for most new development and redevelopment projects to request a portion of capacity of the City's water system through the water capacity reservation certificate (CRC) process. Each CRC reserves a specific number of gallons per day based on the current value of an equivalent residential unit (ERU). Because the City has limited capacity to withdraw water, the City identifies—by way of the water CRC process—projects to which the City's water system has capacity to provide water.

The City's Water System Plan identifies the City's current annual water rights at 11,450 ERUs and a projected water demand in 2028 at 6,778 ERUs. Based on annual water rights the City has capacity to serve water beyond the next six years.

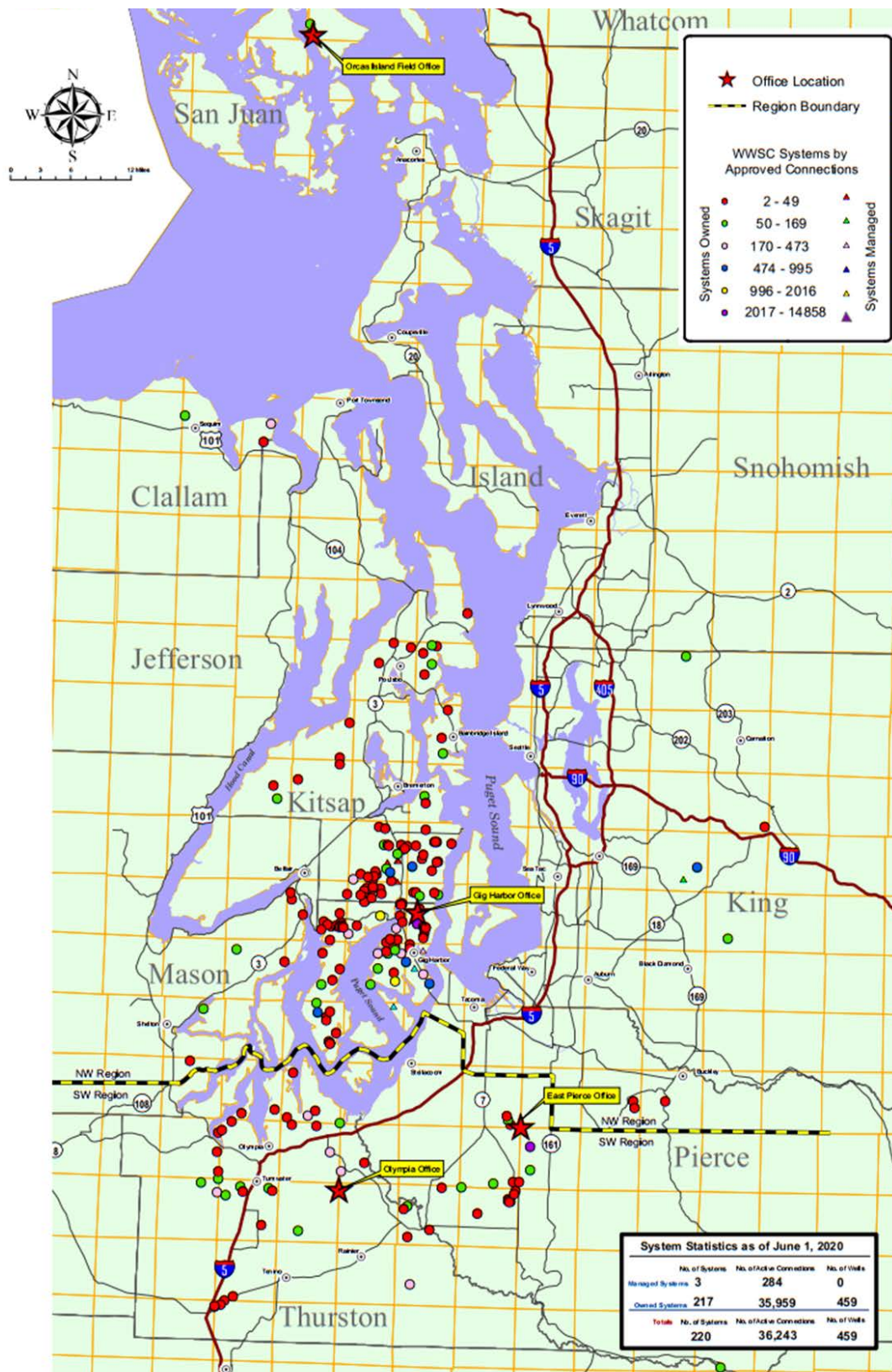
Analysis of the existing storage facilities in the City of Gig Harbor Water System Plan indicates that the City can meet all of its storage needs through the 20-year planning horizon with existing facilities by nesting

standby storage and fireflow storage. Consequently, the City is not currently planning for additional storage facilities in the 20-year planning horizon.

Future Needs

The City's water system plan forecasts future needs based on future population growth. As discussed in the previous section, the City has sufficient water rights to meet projected demand over the next twenty years. However, systemwide, the City aims to meet the maximum daily water demand. The City is developing a new deep aquifer well to meet this goal. The deep aquifer well is identified as Well 11, located adjacent to the City Maintenance Facility, and will produce up to 1,000 acre-ft per year and 1,000 gallons per minute. This will add redundancy to make the water distribution more reliable. The City has also replaced undersized pipes and the older asbestos cement (AC) water mains with either ductile iron pipe or polyvinyl chloride (PVC) pipe. Overall, these have resulted in a robust water system for the City.

Exhibit 13-9. Washington Water Service System Locations, 2020



Source: Washington Water Service, 2020.

13.3.3 Wastewater Systems

Existing Capital Facilities

Sanitary sewer service in the City of Gig Harbor is owned, operated, and maintained by the city. The wastewater division is in the Public Works Department of the City.

The City of Gig Harbor developed its first Wastewater Comprehensive Plan (WWCP) more than 30 years ago and has regularly updated the WWCP since. The Washington State Department of Ecology requires the city to have a “general sewer plan” per WAC 173-240. Further, RCW 35.67.030 directs the city to update the plan based on capital improvements. The WWCP is not an element of the City Comprehensive Plan but is instead adopted by reference.

Gig Harbor’s original collection system, constructed in 1974-1975, served the downtown area and an area south of downtown. The original system was called Utility Local Improvement District (ULID) #1 and included six lift stations. ULID #2 was constructed to the south of ULID #1 in 1988 to serve south Gig Harbor including portions of Soundview Drive, Harbor Country Drive, Point Fosdick Drive, and Olympic Drive. ULID #3 was constructed north of ULID #1 in 1992 to serve North Gig Harbor including the area along Burnham Drive north of Harborview Drive, the Washington State Women’s Corrections Center off Bujacich Drive, and portions of the Purdy area including the Peninsula School District campus in Purdy.

Further expansions of the City’s collection system were built under development agreements and as mitigation conditions of proposed development through the state environmental policy act (SEPA) process. As of 2018 the City’s collection system consisted of approximately 150,000 feet of gravity sewers, 32,000 feet of sewer force mains, and 17 lift stations.

With a service area of 1,800 acres, the system provides sewer services within the city limits and to select developments in the UGA, such as Canterwood Estates and the Washington Corrections Center for Women. Outside of the UGA, the city owns, operates, and maintains an on-site septic system for the 24-unit Shorecrest Development, located on Ray Nash Drive NW. The city also treats septic effluent from a 68-unit housing development on Wollochet Bay in unincorporated Pierce County. Within the city’s UGA, there are individual residential on-site septic systems on select parcels; the city hopes to connect these parcels to the City sewer system by 2050.

The wastewater system includes 57 miles of sanitary sewer lines. Its collection system includes 213,000 lineal feet of gravity and force main pipe sewers and 18 lift stations. See Exhibit 13-10 for a map of the major sewer system lines. The City of Gig Harbor Wastewater Treatment Plant (WWTP), located on five acres west of the intersection of Harborview Drive and North Harborview Drive, treats millions of gallons of wastewater each year. Built in 1975 with major upgrades in 2009 and 2016, the WWTP has increased capacity and improved reliability to adequately serve the City’s current residents and future growth. Its current daily average flow is approximately 1.1 MGD (million gallons per day). Future improvements are anticipated to increase the WWTP’s loading limit to 2.4 MGD, which exceeds the 20-year flow and waste load planning projections.

The City’s wastewater treatment plant (WWTP) is located on five acres, west of Harborview Drive at its intersection with North Harborview Drive. The original WWTP was brought online to provide secondary treatment of municipal sewage in 1975 with a design capacity of 0.45 million gallons per day (MGD) and an

average organic loading of 700 lbs BOD₅/day. The WWTP was expanded in 1996 to its current capacity of 1.6 MGD, and an average organic loading of 3,400 lbs BOD₅/day. In 2009, the city performed a major upgrade to the WWTP to expand capacity. In 2010, the outfall was removed from the inner harbor and extended and relocated into Colvos Passage to a depth of 191' below sea level in the Puget Sound. In 2016, the city completed Phase II of its major upgrade to the WWTP to increase capacity and improve reliability. The final upgrade added ultraviolet disinfection, odor control for the digester system, a second redundant fine screen, an eductor waste dewatering structure, process water pumping system and other ancillary support equipment.

The WWTP consists of the following major components: influent flow meter, degritter, influent screens, anoxic basins, aeration basins, blowers, secondary clarifiers, return activated sludge pumps, waste activated sludge pumps, sludge thickener, aerobic digester, digested sludge pumps, sludge dewatering centrifuge, odor control, UV disinfection, chlorine contact tank, process water pumps and effluent discharge pumps. Effluent from the WWTP is piped through an outfall that discharges into Colvos Passage in the Puget Sound. The WWTP also operates and maintains a state accredited lab for the purpose of process control and NPDES testing requirements.

The WWTP's current daily average flow is approximately 1.1 MGD. The designed and constructed improvements will exceed the 20-year planning horizon flow and waste load projections. An interim NPDES permit was issued in March of 2015, with the 1.6 MGD loading limit, and during the final phases of construction with the final permit of 2.4 MGD. The 2.4 MGD loading limit was contingent upon completion and certification of the constructed improvements. See Exhibit 13-10 for the sewer system map.

In addition to sewer service within the Gig Harbor UGA, the City of Gig Harbor owns, operates, and maintains a septic system for the Shorecrest residential Development along Ray Nash Drive NW located about 5 miles west of the City. The Shorecrest septic system is a 12-unit development with an on-site septic system and pressurized community drainfield and is located outside the City's UGA.

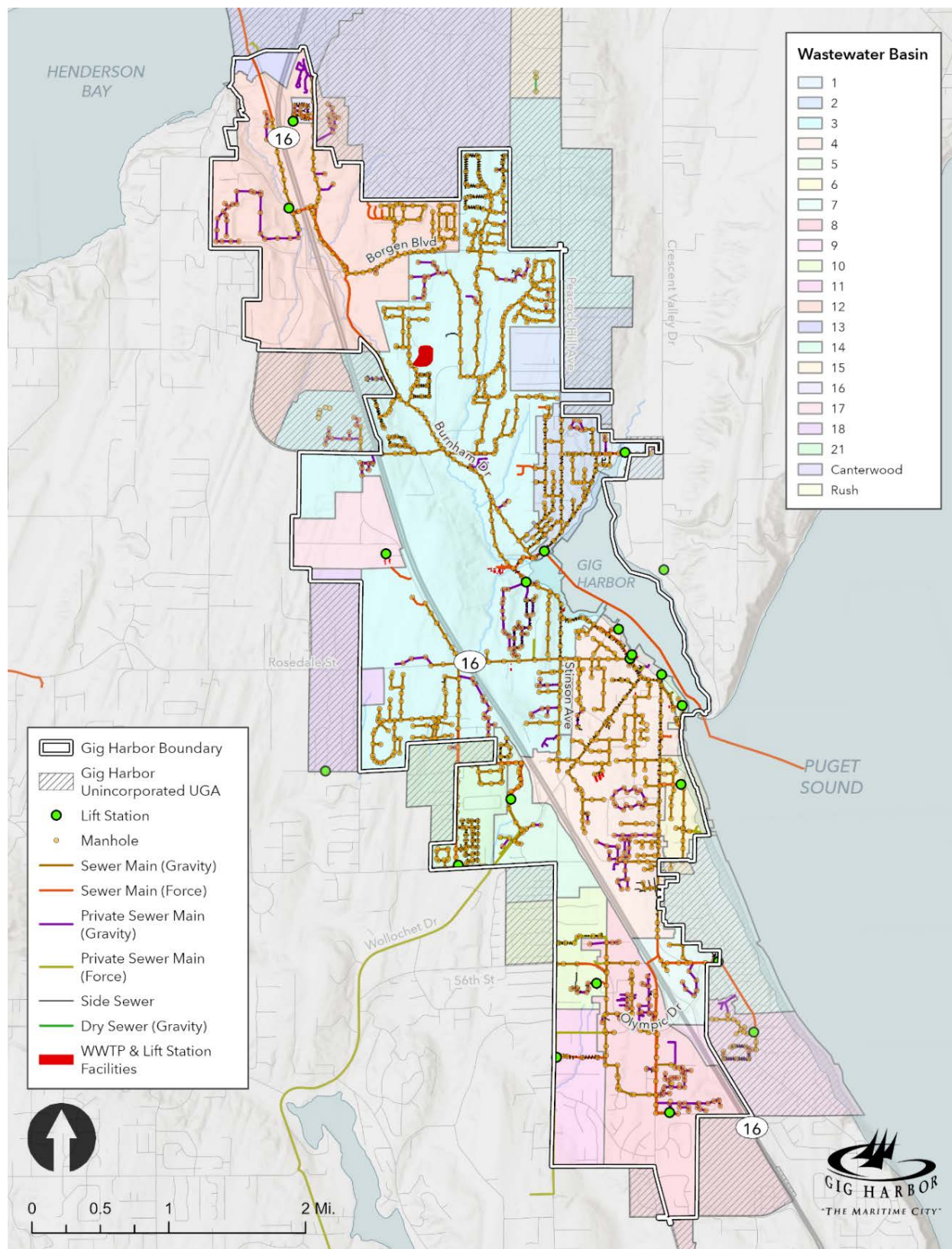
The City of Gig Harbor has entered a contract with the Wollochet Harbor Sewer District to provide wastewater treatment for septic tank effluent produced in the District. The contract allows for the District to discharge an average annual flow of 16,400 gallons per day. The point of discharge is the Wagner Way lift station.

Level of Service

The City introduced a requirement in May 2006 through Ordinance #1044 for most new development and redevelopment projects to request a portion of the treatment capacity at the City's wastewater treatment plant (WWTP) through the sewer capacity reservation certificate (CRC) process. Each CRC reserves a specific number of gallons per day for treatment at the wastewater treatment plant based on the current value of an equivalent residential unit (ERU) since the WWTP has limited capacity to treat wastewater, the City identifies by way of the sewer CRC process those projects that the City's WWTP has adequate public wastewater facilities to treat and discharge treated effluent.

With the completion of the WWTP Phase II upgrade improvements in 2016, the City can collect and treat the design flow of 2.4 MGD.

Exhibit 13-10. City of Gig Harbor Sewer System Map



Source: City of Gig Harbor, 2024.

Future Needs

The City has used a demographics forecasting allocation model (DFAM) to forecast future population growth on undeveloped and underdeveloped parcels within the City's urban growth area (UGA). The primary input to the DFAM was a result of the City's Buildable Lands Analysis. The resulting population growth was then correlated to the generation of sewer flows to provide an estimate of the distribution of sewer flows throughout the City's UGA. These forecasted flows and descriptions of future wastewater needs are described further in the City's Wastewater Comprehensive Plan.

The City regularly updates its Wastewater Comprehensive Plan to assess existing and future capacity of the sewer system, identify specific wastewater utility infrastructure improvements and determine how best to provide wastewater services to the Gig Harbor community over a 20-year growth period. It analyzes potential strategies to promote water resource management and environmental sustainability, such as a reclaimed water program, and identifies improvements to the wastewater system needed over the next 20-year planning period.

Future needs identified by the Wastewater Comprehensive Plan focus on the full build-out of its sewer services to the limits of the UGA. By 2050, it assumes that all unsewered developed parcels and new developments are sewerred. See Exhibit 13-11 for the demographic forecast allocation model WWTP used to estimate its sewerred and non-sewerred build-out. Exhibit 13-12 shows the anticipated wastewater flow projections. See the Capital Facilities Element for further details on future capital improvement projects related to the wastewater utility, costs, funding, and approximate schedule to address these projections.

Exhibit 13-11. Gig Harbor UGA Demographics Based on Adjusted Growth Rates by Sewer Connection

Year	Single-Family Households		Multifamily Households		Employment		Prison Inmates	School Enrollment
	Sewered Units	Non-Sewered	Sewered	Non-Sewered	Sewered	Non-Sewered		
2017	2,035	2,889	1,580	1,225	18,929	9,635	738	5,970
2037	5,674	1,184	2,446	739	30,859	9,492	894	8,949
Build-Out	7,608	0	3,466	0	45,517	0	996	10,356

Sources: Gig Harbor Wastewater Comprehensive Plan Update, 2018; BERK, 2024.

Exhibit 13-12. Average Sanitary and Peak Flow Estimates, 2017 – Build-Out

Category	Unit Wastewater Flows	2017		2037		Build-out	
		Sewered	ADWF (GPD)	Sewered	ADWF (GPD)	Sewered	ADWF (GPD)
Single-Family Residential	134 gpd per unit	2,035	272,659	5,674	760,337	7,608	1,019,481
Multi-Family Residential	134 gpd per unit	1,580	211,720	2,446	327,783	3,466	464,385
Employment	18 gpd per person	18,929	340,720	30,859	555,459	45,517	819,298
Prison	100 gpd per person	738	73,800	894	89,436	996	99,600
School	20 gpd per person	5,970	119,400	8,949	178,972	10,356	207,120
Wollochet Harbor	---	---	11,000	---	11,000	---	11,000
Average Dry Weather Flow			1,018,299		1,911,988		2,609,884
Sanitary Peak Flow			1,527,449		2,867,982		3,914,826

Source: Gig Harbor Wastewater Comprehensive Plan Update, 2018.

The City's collection system is planned at full build-out to expand to the limits of the UGA. The collection system has been divided into a total of 21 topographic basins, also known as sewer basins. At build-out each sewer basin will have one sewer pump station and a mixture of sewer gravity mains and sewer force mains. The design and construction of undeveloped and underdeveloped sewer basins may be financed by developers as conditions of SEPA or land use approval, and/or utility local improvement districts (ULIDs).

As noted above in the description of the existing capital facilities, the City's core area has an established sewer collection system. Some areas within the City's UGA can have sewer flows conveyed using gravity to existing sewer lift stations. However, in most areas the future development of the City's sewer collection system will occur in areas beyond the City's core area. These areas have a topographic low point where wastewater must be collected and pumped and may require construction of a new sewer pump station, also known as a lift station. Only one lift station shall be utilized in each sewer basin.

In situations where a new sewer lift station must be constructed two scenarios exist. The first scenario is where no lift station is in the sewer basin. The proposed development activity shall design and construct a new developer funded, and designed to City Standards, lift station that will collect sewer flows from the proposed development and all future development upstream in the sewer basin.

The second scenario is where an existing lift station is already located in the sewer basin but the proposed development activity is located lower in elevation than the existing lift station. The proposed development activity shall design and construct a new developer funded and designed to City Standards a lift station that will collect sewer flows from the existing lift station, the proposed development, and all future development upstream in the sewer basin. The existing lift station would then be demolished.

Due to the potential for mechanical and electrical failures and the complications that arise when these failures occur, developments shall maximize gravity flows while minimizing the use of lift stations and grinder pumps.

Only developments lower in elevation than an existing lift station or gravity main AND lower in elevation than the path of sewer main construction may use, upon approval of the Public Works Director, use grinder pumps in lieu of constructing a new lift station.

The City's Wastewater Division provides continuous maintenance of the existing collection system. Future needs of the existing collection system are mostly limited to projects requiring rehabilitation of the lift stations. Infiltration & Inflow (I&I) impacts capacity in the collection system, and interflow of stormwater runoff resulting from rainfall appears to be the primary factor. The existing forcemains and gravity pipelines have adequate capacity for current and future wastewater flows. A third of the existing lift stations are beyond useful life and will require equipment or capacity upgrades to meet expected growth. The repair and rehabilitation projects are addressed in the CIP of this plan. It is estimated that the future dry weather flow in the collection system will increase compared to the total flows (including I&I) that currently exist in the collection system. Funding for the ongoing maintenance of the existing collection system, including rehabilitation of existing lift stations and replacement of existing sewer mains is funded by utility general facility charges and utility rates.

Future Wastewater Treatment Plant Needs

With the successful completion of the final phase of upgrades, the City of Gig Harbor WWTP has high confidence in its ability to collect and treat the design flow of 2.4 MGD, with the upgrades being able to meet and exceed the City's 20-year plan for meeting capacity requirements. Efforts focused on maintenance, repair and replacements should occur over the next four years with planning for future capital improvements in the timeframe of 2028 and beyond.

Reclaimed Water Investigation

The State has identified reclaimed water as an important water resource management strategy that can offer benefits related to potable water supply, wastewater management, and environmental enhancement. The City has acknowledged the State's acceptance and promotion of reclaimed water as being a viable and important water resource management tool through the adoption of a comprehensive plan goal for the wastewater utility to explore options to create reclaimed water.

13.3.4 Stormwater Systems

Existing Capital Facilities

The Puget Sound and in particular Gig Harbor, Henderson Bay, and Wollochet Bay are the receiving water bodies of the City of Gig Harbor's storm system. The stormwater system consists of catch basins, pipe, drainage ditches, natural streams such as North Creek, Crescent Creek, and McCormick Creek, wetlands, ponds, and stormwater management facilities providing flow control and water quality treatment of storm runoff. The Operations and Maintenance Department is responsible for approximately 49 stormwater ponds (of which 13 are publicly owned), 4,583 catch basins, 16 miles of drainage ditch, seven bioretention swales, two miles of stormwater detention system pipe, two rain gardens, 49 stormwater vaults and 72 miles of storm drainage pipe. This inventory has grown over the past decade with the continuing development and annexations to the City.

Proper development and regular maintenance of the City's stormwater infrastructure is critical to assuring proper function, effective control of stormwater discharges and water quality, and minimized effects upon receiving water environments and downstream property. Responsibilities for facility inspection and maintenance are determined by facility ownership, and is performed by the City's Public Works Department, homeowner associations, business owners, and property management companies. Regularly scheduled maintenance and inspections best assure timely correction of deficiencies.

As a permittee under a Western Washington Phase II Municipal Stormwater Permit, the City is required to satisfy specific obligations in establishing local stormwater development standards, perform facility inspections and maintenance, participate in water quality monitoring, provide related public involvement and education opportunities, and report annually on stormwater programs and activities. The City's obligations have increased with successive permits; by example, in 2016 the City adopted and updated its stormwater regulations incorporating low impact development (LID) techniques as the preferred approach to site development. It is anticipated the City's obligations will again increase under the next permit renewal.

Level of Service

The level of service for the City's stormwater infrastructure was evaluated while updating the Comprehensive Stormwater Plan. The level of service analysis encompasses both the hydraulic capacities in storm drains and the effects upon the network of creeks.

Storm system modeling was performed at a planning level to identify system needs under future full build-out land use conditions. The City selected ten torn trunk lines to be analyzed. These trunk lines were selected based on known past conveyance and/or sedimentation problems and possible future system impacts due to development. The storm drainage capacity within these trunk systems was evaluated on their ability to convey the peak runoff from the 25-year return period discharge. The City's stormwater infrastructure is sufficient to convey stormwater runoff under buildout conditions; local improvements to storm drain networks are defined to assure the necessary capacity, as discussed below under Future Needs and the Capital Improvement Program.

Storm drainage outfalls along the harbor shoreline were also analyzed to determine if capacities are sufficient for runoff from future buildout and redevelopment within their tributary basins. The storm drainage capacity within these outfall systems was evaluated on their ability to convey the peak runoff from the 25-year and the 100-year return period discharge. Outfall capacities were found to be sufficient to convey stormwater runoff under buildout conditions for the 25-year return period discharge, with three outfalls found to be under capacity at buildout. Outfalls from most of the largest drainage systems do not have capacity to convey the 100-year discharge. The outfall capacity analysis was performed to inform consideration of an alternative policy that would disallow waiving of flow control requirements for developing or redeveloping properties that discharge to city drainage systems upstream from outfalls.

Further, the City's stormwater management standards and guidelines regulating future development and redevelopment require such projects control runoff to undeveloped site conditions, thereby preserving the current levels of service in City storm drainage systems.

Future Needs

There are several locations where discharges approach or exceed the hydraulic capacity of storm drains, and other locations where culverts present a block to fish passage. A list of recommended storm system capital improvement projects is identified in the Capital Improvement Program (CIP) of the Stormwater Comprehensive Plan update. In 2008, the City initiated a Stormwater General Facility Charge to fund stormwater CIP projects; this charge was most recently updated in 2015.

The scope of improvements identified in the stormwater CIP encompasses capacity improvements, fish passage and habitat improvements, and corrective maintenance and facilities.

13.3.5 Schools

The City of Gig Harbor is served by the Peninsula School District #401 for educational purposes. The PSD manages and maintain their public infrastructure through an adopted Six Year Facilities Plan, last updated in August 2014. The Peninsula School District #401 Capital Facilities Plan is hereby adopted by reference within the City of Gig Harbor's Comprehensive Plan. Copies of the plan are available for public review.

Exhibit 13-13 details school enrollment counts by grade level, for 2021 through 2024. Exhibit 13-14 details school district staff counts for 2021 through 2024.

Exhibit 13-13. K-12 Peninsula School District Enrollment, 2021-2024

FTE Enrollment Counts	Average 2021-2022	Budget 2022-2023	Budget 2023-2024
Kindergarten	565.47	696.00	634.00
Grade 1	563.73	573.00	626.00
Grade 2	657.84	594.00	612.00
Grade 3	613.82	691.00	620.00
Grade 4	617.89	641.00	717.00
Grade 5	656.00	644.00	673.00
Grade 6	596.75	672.00	676.00
Grade 7	622.78	602.00	722.00
Grade 8	642.03	686.00	628.00
Grade 9	703.27	661.00	685.00
Grade 10	724.43	709.00	719.00
Grade 11 (excluding Running Start)	586.49	582.00	731.00
Grade 12 (excluding running start)	490.41	601.00	606.00
Subtotal	8,040.91	8,352.00	8,649.00
Running Start	356.68	360.00	344.00
Dropout Reengagement Enrollment	14.43	20.00	19.00
ALE Enrollment	167.85	123.00	0.00
Total K-12	8,579.87	8,855.00	9,012.00

Sources: Peninsula School District F195 [Budget](#), 2023-2024; BERK, 2024.

Exhibit 13-14. K-12 Peninsula School District Staff Counts

Staff Counts	Average 2021-2022	Budget 2022-2023	Budget 2023-2024
General Fund FTE Certificated Employees	673.43	646.26	648.619
General Fund FTE Classified Employees	346.17	370.98	339.812

Sources: Peninsula School District F195 [Budget](#), 2023-2024; BERK, 2024.

13.3.6 Park and Recreation Facilities

Existing Capital Facilities

The City of Gig Harbor owns 37 park properties ranging in size from 0.06 of an acre to over 50 acres. Included in that total are four designated trails that range from 0.2 of a mile to 6 miles in length. Exhibit 13-15 documents the City's existing park facilities. Detailed park profiles on each city park facility are included in the 2022 Park Recreation and Open Space Plan as Appendix A to that plan.

The Gig Harbor park classification system includes the following classifications:

Waterfront Parks are located on the shoreline and provide a mix of water related uses and forms of access to the shoreline. These parks typically include historic structures or uses that are planned for preservation in keeping with the City's maritime heritage. The City actively works to balance uses within these parks to provide a mix of recreation opportunities, historic preservation, and community gathering spaces.

Community Parks are larger parks, typically between 15 and 30 acres, that provide a wide variety of recreation opportunities that appeal to the entire community. Typically, these sites are designed for active recreation and can accommodate large numbers of people and offer a wider variety of facilities than neighborhood parks. These parks also may serve as a destination for access to water and large community events, and they may include significant natural areas and trails as well as more support facilities.

Neighborhood Parks are developed for both passive and active recreation, and are accessible by walking, biking, or driving. They have support facilities such as restrooms and parking. These parks may typically include athletic fields, sports courts, trails, playgrounds, open space, and picnicking facilities.

Mini-Parks serve to address limited, isolated or unique recreational needs. Generally, these parks range from 2,500 square feet to one acre in size and are optimally located within ¼-mile of a residential setting.

Special Use Facilities include single-purpose recreational areas or stand-alone sites designed to support a specific, specialized use. Special facilities include sport complexes, community centers and/or historic areas. Support facilities such as parking and restrooms are often included.

Natural Areas preserve critical areas, urban forests and historic sites for future generations and include low impact recreational uses. Such sites are often developed with ancillary uses that are compatible with or support the primary preservation of the sites key features, such as the garden program located at Wilkinson Farm Park or the hatchery program located at Donkey Creek Park.

Trails include both linear trails (measured in miles) and trail support facilities (measured in acres). Trails are off-street transportation and recreation options either paved or unpaved that connect two points and are often located in a utility or undeveloped road right of way. While many of the City's parks provide access trails that loop through a park site, trails are linear in nature. The City has also designated one on-street trail, Harborview Trail, due to the importance of this corridor for recreational use and as a connector between waterfront parks.

Undeveloped Sites are properties acquired or owned by the City for park purposes, which have not yet been developed. These properties are anticipated to be developed into parks in the future and will be moved to the appropriate classification as they are developed.

Other properties managed by the City may include lands which do not presently provide park, recreation or open space amenities but are in City ownership and could be redeveloped for such uses in the future.

Exhibit 13-15. Existing Park Facilities

Park Name	Classification	Acreage
Parks		
Anchich Waterfront Park	Waterfront Park	0.78
Austin Park	Waterfront Park	1.38
Bogue Viewing Platform	Waterfront Mini-Park	0.15
Civic Center Green (incl. Stake Park)	Community Park	6.55
Crescent Creek Park (incl. BMX & volleyball courts)	Community Park	10.89
Eddon Boat Park	Waterfront Park	3.88
Gig Harbor Sand Spit	Waterfront Mini-Park	1.21
Gig Harbor Sports Complex	Community Park	22.14
Jerisich Dock (at Skansie Brothers Park)	Waterfront Mini-Park	0.56
Kenneth Leo Marvin (KLM) Veterans Memorial Park	Neighborhood Park	5.58
Maritime Pier	Waterfront Mini-Park	0.72
Old Ferry Landing Park	Waterfront Mini-Park	0.31
Peninsula Light Fields	Special Use Facility	9.11
Shaw Park	Neighborhood Park	1.76
Skansie Brothers Park	Waterfront Park	2.59
Subtotal Parks		67.61
Natural Areas and Trails		
Adam Tallman Park	Natural Area	11.84
Austin Park – Tidelands: tx ^w aalqəł Estuary	Natural Area	7.07
Donkey Creek Park	Natural Area	1.04
Grandview Forest Park	Natural Area	8.58
Harbor Hill Open Space (south of Shaw Park)	Natural Area	20.14
Old Burnham Properties	TBD (counted as Natural Area)	20.31
Soundview Forest	Natural Area	1.54
tx ^w aalqəł Conservation Area	Natural Area	51.95
Wilkinson Farm Park	Natural Area	17.74

Park Name	Classification	Acreage
Cushman Trailhead – 96 th Street	Trail	0.28
Cushman Trailhead - Borgen	Trail	0.18
Cushman Trailhead - Grandview	Trail	0.45
Cushman Trailhead - Hollycroft	Trail	0.60
Finholm View Climb	Trail	0.35
Subtotal Natural Areas & Trails		142.07
Total Acreage		209.68

Sources: City of Gig Harbor PROS Plan 2022; City of Gig Harbor, 2024; BERK, 2024.

This inventory includes only City of Gig Harbor parks and open spaces; the Gig Harbor Peninsula is served by a variety of park and recreation service providers, and a detailed inventory of all public facilities on the Peninsula is not included in this plan. Based on County data, more than 900 acres of park, recreation and open space lands exist in public ownership on the Gig Harbor Peninsula.

Level of Service and Future Needs

The City established levels of service for the park system in the 2022 Park, Recreation and Open Space (PROS) Plan to maintain and improve upon existing levels of service. Planned levels of service (PLOS) were established to ensure a variety of recreation opportunities will be available as the City grows. The level of service standards adopted by the City for the park system are expressed as the number of acres (or miles) per 1,000 residents, with a combined target of 5 acres per 1,000 residents for neighborhood and community parks.

Error! Reference source not found. documents levels of service based on a population of 13,090 as of April 2024, and an assumed population target of 13,720 for 2044 based on the Pierce County Countywide Planning Policies. Note that this includes five categories of parks for measurement:

- Neighborhood Parks
- Community Parks
- Waterfront Parks and Mini-Parks
- Natural Areas
- Trails

Special Use Facilities (Peninsula Light Fields) are not included in this LOS assessment, as the need for these facilities is specialized and potentially regional in nature.

Exhibit 13-16. 2024 Parks Levels of Services and Measure of Needs

Park Type*	Current Inventory	Planned LOS (ac/1,000)	2024 Existing LOS (ac/1,000)	2024 Surplus / Deficit	2044 Surplus / Deficit (proj.)
Neighborhood Park	7.3 acres	5.0 acres /1,000	3.6 acres/1,000	(18.5 acres)	(21.7 acres)
Community Park	39.6 acres				
Waterfront Park / Mini-Park	11.6 acres	1.0 acres /1,000	0.88 acres/1,000	(1.5 acres)	(2.1 acres)
Natural Areas	140.2 acres	5.25 acres/1,000	10.7 acres/1,000	71.5 acres	68.2 acres
Trails	10.2 miles	1.17 miles/1,000	0.78 miles/1,000	(5.1 miles)	(5.9 acres)

* Note that this excludes Special Use Facilities.

Sources: City of Gig Harbor PROS Plan 2022; BERK, 2024.

As noted in this evaluation, there is a current shortfall of almost 19 acres of park space that will need to be addressed, which is expected to increase slightly over the coming years. Note, however, that future needs for park, recreation, and open spaces will also be linked to achieving the expressed desires of this community and building connected spaces. In the PROS Plan update process, several key themes emerged to be considered in acquisition and development, including broader needs for accessibility, programming, services, and linkages. Park expansion is limited given the availability of land for recreation in the city, and as a result, coordination of future park site acquisition with development planning will be a priority.

13.3.7 Police, Fire Protection, and Emergency Medical Services Facilities

Police

Police services are provided by the Gig Harbor Police Department, which serves the citizens of Gig Harbor and other community members within the jurisdiction. This includes a Police Chief, Lieutenant, four Patrol Sergeants, one Detective Sergeant, two Detectives, and 16 Patrol Officers. Additional staff includes two Police Services Specialists and one Property/Evidence Technician.

The City utilizes three contract jails. Dispatch service is provided by South Sound 911. Additional opportunities include participation in our Bicycle Unit, Marine Services Unit, and a variety of multi-jurisdictional teams.

Fire and EMS

Fire protection and emergency medical services are provided by Gig Harbor Fire & Medic One, with Station 51 located within the city as a 24-hour staffed station (typically 6–7 officers and one battalion chief), as well as nine other stations (both 24-hour and non-staffed), a district maintenance shop located in Purdy, and the Swede Hill training campus at Station 50. District headquarters is located at 10222 Bujacich Road NW outside of the city. The total service area for the district includes unincorporated Pierce County on the peninsula as well as Fox Island, covering an area of 54 square miles.

The current 2021 Gig Harbor Fire & Medic One Capital Facilities Plan is adopted by reference under this element. According to this Plan, future capital investments are primarily focused on upgrading existing facilities and reusing existing sites for new facilities, as opposed to identifying new sites for purchase and development. While the current stations are in good locations and have been maintained well over time, all the current fire stations do not meet Immediate Occupancy seismic standards (indicating that they will experience damage during earthquakes and may not be functional afterwards). There are also concerns with operational deficiencies related to fire protection, electrical, and HVAC systems, as well as the need for compliance with ADA accessibility requirements.

Proposed improvements under the Capital Facilities Plan include:

- Additional facilities and improvements at the existing Swede Hill Training Campus, including a new five-story training tower, a support building with classrooms and offices, an expansion to the auto extrication area, and additional parking;
- Renovations/major additions to support eight existing fire stations;
- A replacement of one existing fire station with a new facility at the same location; and
- An addition to the existing district maintenance shop building.

For Gig Harbor, the Plan notes that Station 51 is not appropriately sized given the call volume and levels of staffing needed to support emergency response at this location. Given that the cost of improving the existing facilities are not cost-effective, the Plan proposes the development of a new station and logistics building on the site for an estimated cost of \$40.6 million (2020 dollars), with an anticipated start of construction in late 2026.

13.4 Capital Facilities Planning

13.4.1 Overview

A Capital Facilities Program (CFP) is a six-year plan for the completion of capital improvements that are supportive of the City's population and economic base as well as near-term (within six years) growth. Capital facilities are funded through several funding sources which can consist of a combination of local, state, and federal tax revenues.

The CFP is intended to support the land-use element by providing the facilities necessary to achieve the community's vision as established in the plan. Note that any changes in land use or housing density can significantly impact related plan elements, especially the capital facilities plan. This interconnection necessitates a cohesive and consistent approach across all elements, ensuring checks and balances for the successful execution of the Comprehensive Plan.

Under RCW [36.70A.070\(3\)](#), the Element must identify the proposed locations and capacities of expanded or new capital facilities. It is expected that the city will fund the identified capital projects through a combination of grants and other funding sources. These grants typically cover about 80–90% percent of project costs, and the city has been successful in securing such funding over the years.

Gig Harbor's 2023-2024 budget document includes 6-year capital improvement programs (CIPs) for each project over the City's main capital funds. CIP supports the city's Comprehensive Plan. Each 6-year CIP is based on the specific capital planning document described in each fund. This section describes capital facilities improvements for water, wastewater, and parks system as identified in the City's budget. Capital funds related to transportation improvements are separately discussed under the Transportation Element and Transportation Improvement Plan.

13.4.2 Financial Assumptions

The following assumptions about the future operating conditions in the city operations and market conditions were used in the development of the six-year capital facilities program:

- The City will maintain its current fund accounting system to handle its financial affairs.
- The cost of running local government will continue to increase due to inflation and other growth factors while revenues will also increase.
- New revenue sources, including new taxes, may be necessary to maintain and improve city services and facilities.
- Capital investment will be needed to maintain, repair, and rehabilitate portions of the city's aging infrastructure and to accommodate growth anticipated over the next twenty years.
- Public investment in capital facilities is the primary tool of local government to support and encourage economic growth.
- A consistent and reliable revenue source to fund necessary capital expenditures is desirable.
- A comprehensive approach to review, consider, and evaluate capital funding requests is needed to aid decision makers and the citizenry in understanding the capital needs of the city.

Capital improvements will be financed through the following funds:

- General Fund
- Capital Improvement Fund
- Capital Development Fund
- Enterprise Funds

13.4.3 Revenues

State statutes set out the powers local governments have for funding capital and other projects. There are four generic types of local government project funding: taxes, fees, grants, and dedicated funds from State revenues. The following is a description of funding sources.

Tax Base and Fees

The City's tax base has shown an increased growth from 2020 to 2024 and is anticipated to continue to see growth between 1-3% through the addition of new construction as well maintaining the valuation tax for existing real property each year. Although this is important to the overall fiscal health of the city, capital improvements are funded primarily through non-tax resources. Taxes include property tax, retail sales and use tax, real estate excise tax, lodging excise tax, leasehold excise tax, commercial parking tax, business and occupation tax, gambling tax, admission tax, local option sales tax, utility tax, emergency medical services tax, fire districts tax, parks and recreation services tax, flood control special purpose district tax, storm drainage payment in lieu of assessment tax, utility revenue bonds and property tax excess levy. Fees include various user fees and impact fees.

Revenue by Fund

The City's capital projects are funded through several options as follows:

- General Fund
- Capital Improvement and Capital Development Funds
- Street and Street Capital Funds
- Enterprise Funds

13.4.4 Capital Improvements

The six-year CIP list includes proposed project funding allocation across the next six years as of the adoption of the budget and does not include projects that have already been completed. The following tables include current projects provided under city planning for the following systems:

- Streets/Transportation (Exhibit 13-17).
- Water (Exhibit 13-18)
- Wastewater (Exhibit 13-19)
- Stormwater (Exhibit 13-20)
- Parks and open space (Exhibit 13-21)

Exhibit 13-17. Transportation System Improvements – Short-Term Project List (2024-2030)

Project List ID	Project Name	Project Type	Total Cost	2025 TIP ID
1	Cushman Trail Extension Phase 5A	Active Transportation Projects	\$6,100,000*	20
2	Burnham Drive/Borgen Boulevard Corridor Study	Multimodal Projects	\$250,000^	-
3	Burnham Drive Complete Street Improvements Phase 2	Multimodal Projects	\$5,400,000*	18
4	Peacock Hill Avenue Complete Street Improvements	Multimodal Projects	\$3,230,000*	8
5	Vernhardson Street Complete Street Improvements	Multimodal Projects	\$700,000*	26
6	Burnham Drive Improvements Phase 1A	Multimodal Projects	\$5,395,000*	1
7	Burnham Drive Complete Street Improvements Phase 1B	Active Transportation Projects	\$2,900,000*	16
8	Austin Street/Harborview Drive Roundabout	Multimodal Projects	\$3,100,000^	-
9	Rosedale Street/Schoolhouse Road Intersection Improvements	Multimodal Projects	\$3,800,000^	-
10	Rosedale Street/Skansie Avenue Intersection Improvements	Concurrency-Related Projects	\$2,200,000*	22
11	Rosedale Street/Stinson Avenue Roundabout	Multimodal Projects	\$75,000^	-
12	Harborview Drive/Pioneer Way Intersection Improvements	Multimodal Projects	\$140,000*	11
13	Harborview/Soundview Intersection Improvements	Multimodal Projects	\$1,200,000^	-
14	Skansie Avenue Complete Street Improvements	Multimodal Projects	\$800,000*	24
15	Grandview Street Improvements (McDonald Avenue to Stinson Avenue)	Multimodal Projects	\$2,100,000^	-
16	Grandview Street Improvements (Soundview Drive to McDonald Avenue)	Multimodal Projects	\$2,600,000*	23
17	Wollochet Drive/SR-16 Westbound Right Turn Lane	Concurrency-Related Projects	\$1,106,000*	5
18	Wollochet Drive/SR-16 Eastbound Right Turn Lane	Concurrency-Related Projects	\$1,590,000*	6
19	Wollochet Drive/Wagner Way Intersection Improvements	Concurrency-Related Projects	\$1,227,000*	2

Project List ID	Project Name	Project Type	Total Cost	2025 TIP ID
20	Hunt Street/Skansie Avenue Intersection Improvements	Concurrency-Related Projects	\$1,930,000*	12
21	Hunt Street/38th Avenue Intersection Improvements (Potential Future Roundabout)	Multimodal Projects	\$2,000,000*	13
22	Soundview Drive/Hunt Street Intersection Improvements	Concurrency-Related Projects	\$1,500,000^	15
23	38 th Avenue Complete Street Improvements Phase 2	Multimodal Projects	\$7,188,000*	4
24	38th Avenue/56th Street Roundabout	Multimodal Projects	\$2,000,000^	-
25	Olympic Drive/Hollycroft Street Intersection Improvements	Multimodal Projects	\$75,000*	27
26	38th Avenue Complete Street Improvements Phase 1C	Multimodal Projects	\$2,800,000*	10
27	50th Street Court Complete Street Improvements	Multimodal Projects	\$2,000,000*	14
28	Olympic Drive/Point Fosdick Right Turn Lane Extension	Concurrency-Related Projects	\$510,000*	7
29	38th Avenue Complete Street Improvements Phase 1B	Multimodal Projects	\$2,500,000*	9

* Cost estimate from the Gig Harbor 2025-2030 TIP.

^ Cost estimate based on similar projects and need for right-of-way acquisition.

Source: City of Gig Harbor, 2025.

For a list of potential transportation investments over the next 20 years, reference the long-term project list in Appendix B – Transportation Element Technical Appendix.

Exhibit 13-18. Water System Improvements

#	Project Name / Description	Project Costs (2025 dollars)						Total
		2025	2026	2027	2028	2029	2030	
1	Shurgard Water Tank Recoating	\$600,000	-	-	-	-	-	\$600,000
2	Soundview Drive Asbestos-Cement Watermain Replacement	\$600,000	-	-	-	-	-	\$600,000
3	Canterwood Drive Water Main Redundancy - Design, Permitting, and Construction	\$200,000	\$800,000	-	-	-	-	\$1,000,000
4	Well House 5 and 6 Well Site Re-development	\$250,000	\$250,000	\$2,000,000	-	-	-	\$2,500,000
5	Well #9 (11944 Olympus Way) Development and Water Rights Processing.	\$305,500	\$250,000	\$1,755,000	-	-	-	\$2,310,500
6	Peacock Hill Avenue Watermain Loop - Design and Permitting	\$50,000	\$50,000	\$500,000	-	-	-	\$600,000
7	Manganese Treatment - Feasibility Study, Design, and Permitting	\$200,000	\$150,000	-	-	-	-	\$350,000
8	Civic Center Fire and Intrusion Upgrades (Storm Capital Share)	\$17,500	-	-	-	-	-	
9	Public Works Decant Facility (Water Capital Share)	\$20,000	\$80,000	-	-	-	-	\$100,000
10	Operations Center Fueling Station (Water Capital Share)	\$96,000	-	-	-	-	-	\$96,000
11	Civic Center Backup Generator (Water Capital Portion)	-	-	\$9,000	\$10,000	\$60,000	-	\$79,000
12	Pavement Maintenance and ADA Improvements - Soundview Dr. (Hollycroft to Magnolia)	-	-	\$100,000	\$900,000	-	-	\$1,000,000
13	Skansie Tank Modifications and Repainting	-	-		\$700,000	-	-	\$700,000
14	Asbestos Cement Water Main Replacement Program (In-House Project)	-	-	\$210,000	-	-	-	
15	Manganese Treatment - Phase 1 Construction	-	-	\$2,500,000	-	-	-	\$2,500,000
16	Asbestos Cement Water Main Replacement Program	-	-	\$500,000	\$2,240,000	-	-	\$2,740,000
17	Conjunctive Supply Strategy	-	-	\$280,000		-	-	\$280,000

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#	Project Name / Description	Project Costs (2025 dollars)						Total
		2025	2026	2027	2028	2029	2030	
18	Water System Plan Update	-	-	\$250,000	\$350,000	-	-	\$600,000
19	Sehmel Dr NW and Burnham Dr NW Water Main Redundancy	-	-	\$400,000	\$1,901,000	-	-	\$2,301,000
20	Deer Creek Lane Water Main Improvements	-	-	-	\$90,000	-	-	\$90,000
21	Reid Drive NW between 56th Street NW and 55th Street NW	-	-	-	\$150,000	\$400,000	-	\$550,000
22	Gig Harbor North Tank Repainting	-	-	-	-	-	\$1,109,000	\$1,109,000
23	Satellite Wastewater Reuse Plant (Water Capital Share)	-	-	-	-	-	\$984,000	\$984,000
24	Well House 3 Reconstruction	-	-	-	-	-	\$450,000	\$450,000
Annual Total =		\$2,339,000	\$1,580,000	\$8,504,000	\$6,341,000	\$460,000	\$2,543,000	\$21,539,500

Source: City of Gig Harbor, 2025.

Exhibit 13-19. Wastewater System Improvements

#	Project Name / Description	Project Costs (2025 dollars)						
		2025	2026	2027	2028	2029	2030	Total
1	Wastewater Treatment Plant Digester Upgrades/Centrifuge Ammonia Control	\$500,000	\$3,000,000	-	-	-	-	\$3,500,000
2	Lift Station 5 (Harborview Dr. Ferry Landing Area) Basin Improvements	\$380,000	\$2,600,000	-	-	-	-	\$2,980,000
3	Lift Station 1A (Crescent Creek Park) Rehabilitation	\$1,150,000	\$2,200,000	-	-	-	-	\$3,350,000
4	Lift Stations 13 & 16 Pump Control Upgrades	\$55,000	\$250,000	-	-	-	-	\$305,000
5	Centrifuge VFD and Control Component Replacement	\$40,000	-	-	-	-	-	\$40,000
6	Lift Station 14 (Wagner Way) Improvements	-	\$750,000	\$2,600,000	-	-	-	\$3,350,000
7	38 th Ave Dry Sewer - Design and Construction	\$610,000	\$700,000	-	-	-	-	\$1,310,000
8	Civic Center Fire and Intrusion Upgrades (Wastewater Capital Share)	\$17,500	-	-	-	-	-	\$17,500
9	Operations Center Fueling Station (Wastewater Capital Share)	\$96,000	-	-	-	-	-	\$96,000
10	Civic Center Security Upgrades at Reception Areas (Wastewater Capital Share)	\$6,000	-	-	-	-	-	\$6,000
11	Civic Center Backup Generator (Wastewater Capital Share)	-	-	\$80,000	-	-	-	\$80,000
12	City Staff Wide Area Network - Feasibility Study and Design (Wastewater Capital Share)	-	-	\$250,000	-	-	-	\$250,000
13	Lift Station 8 Upgrades	-	-	\$750,000	\$3,000,000	-	-	\$3,750,000
14	Stinson Slip Lining Sewer Main	-	-	\$40,000	-	-	-	\$40,000
15	I&I Repairs of Manholes & Pipelines	-	-	\$150,000	\$200,000	-	-	\$350,000
16	Upsize Gravity Pipe on Burnham Dr	-	-	\$300,000	\$3,500,000	-	-	\$3,800,000
17	Wastewater Treatment Plant Ultraviolet Disinfection System Upgrades	-	-	\$869,000	-	-	-	\$869,000
18	Lift Station 10A (56th St./36th Ave.) Improvements (LID)	-	-	\$250,000	\$1,000,000	-	-	\$1,250,000

13 Capital Facilities // Gig Harbor Comprehensive Plan

#	Project Name / Description	Project Costs (2025 dollars)						Total
		2025	2026	2027	2028	2029	2030	
19	Harborview Dr Gravity Main Improvements (Stinson to Westshore Marina)	-	-	-	\$500,000	\$1,422,000	-	\$1,922,000
20	Lift Station 11 (38th Ave./48th St.) Improvements	-	-	-	\$250,000	\$1,000,000	-	\$1,250,000
21	Lift Station 2A (Harborview Dr at Beach Baskset) Control Upgrades	-	-	-	\$300,000	-	-	\$300,000
22	N. Harborview Dr Gravity Main Improvements	-	-	-	-	\$300,000	\$1,700,000	\$2,000,000
23	Lift Station 17 (Skansie Ave/89th St) Design (LID)	-	-	-	-	-	\$500,000	\$500,000
24	Burnham Dr/Harborview Dr Gravity Main Bypass	-	-	-	-	-	\$190,000	\$190,000
25	Lift Station 16A (McCormick Ridge Condos) Improvements	-	-	-	-	\$300,000	\$2,200,000	\$2,500,000
Annual Total =		\$2,354,500	\$6,500,000	\$5,289,000	\$8,750,000	\$3,022,000	\$4,590,000	\$34,005,500

Source: City of Gig Harbor, 2025.

Exhibit 13-20. Stormwater System Improvements

#	Project Name / Description	Project Costs (2025 dollars)						Total
		2025	2026	2027	2028	2029	2030	
1	Burnham Dr. Culvert Replacement at 96 th Street	\$1,250,000	-	-	-	-	-	\$1,250,000
2	Storm Pipe Slip Lining	\$50,000	\$300,000	-	-	-	-	\$350,000
3	Improvements at Soundview Dr Stormwater Outfall	\$100,000	\$150,000	-	-	-	-	\$250,000
4	North Creek Culvert Replacement – Design and Permitting	\$400,000	\$150,000	\$9,050,000	-	-	-	\$9,600,000
5	Stormwater Prioritization and Permitting - Outfalls to Marine Waters – Upgrades	\$150,000	\$150,000	-	-	-	-	\$300,000
6	Civic Center Fire and Intrusion Upgrades (Storm Capital Share)	\$17,500	-	-	-	-	-	\$17,500
7	Operations Center Decant Facility (Storm Capital Share)	\$20,000	\$80,000	-	-	-	-	\$100,000
8	Operations Center Fueling Station (Storm Capital Share)	\$96,000	-	-	-	-	-	\$96,000
9	Civic Center Security Upgrades at Reception Areas (Storm Capital Share)	\$6,000	-	-	-	-	-	\$6,000
10	Operations Shop Re-siding and Expansion (Storm Capital Share)	-	-	\$20,000	-	-	-	\$20,000
11	Civic Center Backup Generator (Storm Capital Share)	-	-	\$80,000	-	-	-	\$80,000
12	City Staff Wide Area Network - Feasibility Study and Design	-	-	\$250,000	-	-	-	\$250,000
13	Culvert Replacement Feasibility Study at the 4300 block of 38th Ave	-	-	\$50,000	\$400,000	\$600,000	-	\$1,050,000
14	50th St Culvert Replacement	-	-	-	-	\$350,000	\$400,000	\$750,000
15	Crescent Creek Culvert Replacement	-	-	-	-	\$700,000	\$700,000	\$1,400,000
16	Stinson Ave Replacement and Extension	-	-	-	-	\$500,000	-	\$500,000
Annual Total =		\$2,089,500	\$830,000	\$9,450,000	\$400,000	\$2,150,000	\$1,100,000	\$15,769,500

Source: City of Gig Harbor, 2025.

Exhibit 13-21. Parks and Open Space System Improvements

#	Project Name / Description	Project Costs (2025 dollars)						
		2025	2026	2027	2028	2029	2030	Total
1	Gig Harbor Sports Complex Phase 1B - Construction	\$1,000,000	-	-	-	-	-	\$1,000,000
2	Crescent Creek Restroom Remodel - Design, Permitting, and Construction	\$50,000	\$140,000	-	-	-	-	\$190,000
3	Crescent Creek Play Area Resurfacing and Sand Pit Modifications	-	\$40,000	\$185,000	-	-	-	\$225,000
4	Soundview Forest Tree Maintenance	\$125,000	-	-	-	-	-	\$125,000
5	Crescent Creek Park - Master Plan	\$110,000	-	-	-	-	-	\$110,000
6	Jerisich Dock Re-decking - Design, Permitting, and Construction	\$66,000	-	-	-	-	-	\$66,000
7	Finholm View Climb - Structural Analysis, Design and Permitting	\$30,000	-	-	-	-	-	\$30,000
8	Adam Tallman Park - Wetland Review and Trail Improvements	\$50,000	-	-	-	-	-	\$50,000
9	Loop Trail Construction and Signage at tx'aaalqəł Conservation Area (Phase 2)	\$10,000	\$30,000	-	-	-	-	\$40,000
10	Splash Pad Replumbing and Rewiring - Design and Construction	\$250,000	-	-	-	-	-	\$250,000
11	Basketball Court at Civic Center Skate Park – Design and Permitting	-	\$45,000	\$110,000	-	-	-	\$155,000
12	Commercial Fishing Homeport - Design, Permitting, and Construction	\$2,480,000	\$1,000,000	-	-	-	-	\$3,480,000
13	Gig Harbor Sports Complex Phase 1A	\$2,319,820	-	-	-	-	-	\$2,319,820
*	Civic Center Fire and Intrusion Upgrades (Parks Capital Share)	\$17,500	-	-	-	-	-	\$17,500
*	Operations Center Fueling Station (Parks Capital Share)	\$96,000	-	-	-	-	-	\$96,000
*	Civic Center Security Upgrades at Reception Areas (Parks Capital Share)	\$6,000	-	-	-	-	-	\$6,000

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#	Project Name / Description	Project Costs (2025 dollars)						
		2025	2026	2027	2028	2029	2030	Total
14	Grandview Forest/Skate Park Restroom Remodel - Construction	-	-	\$40,000	\$190,000	-	-	\$230,000
15	Cushman Trail Connection to Harborview Drive (tx'aaalqəł Phase 1)	-	-	\$180,000	\$30,000	-	-	\$210,000
16	Crescent Creek Park Phase 1A - Design, Permitting and Construction	-	-	-	\$35,000	-	-	\$35,000
17	Gig Harbor Sports Complex Phase 2 & 3 - Design and Permitting	-	-	\$30,000	\$250,000	\$250,000	-	\$530,000
18	Masonic Lodge Remodel Design and Engineering	-	-	-	\$250,000	-	-	\$250,000
19	Veteran's Memorial Phase 2 Improvements	-	-	-	-	\$240,000	-	\$240,000
20	Wilkinson Farm Park Master Plan	-	-	-	-	\$175,000	-	\$175,000
21	Shaw Park Analysis and Remediation	-	-	-	-	\$90,000	-	\$90,000
22	Cushman Trail Phase 5A Pedestrian Crossing – Value Engineering Study	-	-	-	-	-	\$90,000	\$90,000
23	Old Ferry Landing Park - Master Planning	-	-	-	-	-	\$35,000	\$35,000
24	Love Lock Art Project - Design and Installation	-	-	\$38,000	-	-	-	\$38,000
25	7601 Soundview Residence - Visioning and Master Plan	-	-	\$45,000	-	-	-	\$45,000
* See Building Capital Fund for more information.								
Annual Total =		\$6,610,320	\$1,255,000	\$628,000	\$755,000	\$755,000	\$125,000	\$10,128,320

Source: City of Gig Harbor, 2025.

13.4.5 Implementation and Monitoring

The six-year schedule of improvements shall be the mechanism the City will use to base its timing, location, projected cost, and revenue sources for the capital improvements identified for implementation in the other comprehensive plan elements.

Monitoring and evaluation are essential to ensuring the effectiveness of the Capital Facilities Plan element. This element will be reviewed annually and amended to verify that fiscal resources are available to provide public facilities needed to support LOS standards and plan objectives. The annual review will include an examination of the following considerations to determine their continued appropriateness:

- Any corrections, updates and modifications concerning costs, revenue sources, acceptance of facilities pursuant to dedication which are consistent with this element, or to the date of construction of any facility enumerated in this element;
- The Capital Facilities Element's continued consistency with the other element of the plan and its support of the land use element;
- The priority assignment of existing public facility deficiencies;
- The City's progress in meeting needs determined to be existing deficiencies;
- The criteria used to evaluate capital improvement projects to ensure that projects are being ranked in their appropriate order or level of priority;
- The City's effectiveness in maintaining the adopted LOS standard and objectives achieved;
- The City's effectiveness in reviewing the impacts of plans of other state agencies that provide public facilities within the City's jurisdiction;
- The effectiveness of impact fees or fees assessed new development for improvement costs;
- Efforts made to secure grants or private funds, as available, to finance new capital improvements;
- The criteria used to evaluate proposed plan amendments and requests for new development or redevelopment;
- Capital improvements needed for the latter part of the planning period for updating the six-year schedule of improvements; and
- Concurrency status.

13.5 Goals and Policies

► CF-1 Plan for effective, cost-efficient services for city residents and businesses.

- CF-1.1 Provide a six-year schedule under the Capital Improvement Program for the planning and costing of all major capital improvement projects.
- CF-1.2 Prioritize capital improvements based on the following criteria:
 - a) The investment is needed to correct existing deficiencies, replace needed facilities or to provide facilities required for future growth;
 - b) The investment contributes to lessening or eliminating a public hazard;
 - c) The investment contributes to minimizing or eliminating any existing condition of public facility capacity deficits;
 - d) The investment is financially feasible;
 - e) The investment conforms with future land uses and needs based upon projected growth;
 - f) The investment will not generate public facility demands that exceed capacity increases under the six-year Capital Improvement Program; and
 - g) The investment will not have a detrimental impact on the local budget.
- CF-1.3 Recognize the urban growth area as the sanitary sewer service area.

► CF-2 Ensure that the development of new capital facilities is fiscally sustainable.

- CF-2.1 Coordinate capital investments to minimize life-cycle costs to the city and the public.
- CF-2.2 Allocate sewer and water connection fee revenues to capital improvements related to expansion of these facilities.
- CF-2.3 Consider funding measures that require developers to provide a fair-share contribution to public facility improvements commensurate with the impacts of the development.
- CF-2.4 Adopt annual capital budgets as part of the annual budgeting process that consider the six-year capital improvement program.
- CF-2.5 Secure external funding, including public grants and private funds as available, to help finance capital improvements.
- CF-2.6 Ensure that fiscal policies to direct expenditures for capital improvements are consistent with other Comprehensive Plan elements.

CF-2.7 Review and update this element and the Land Use Element as required if probable funding falls short of meeting the identified needs of this plan, including a reassessment of improvement needs, priorities, level of service standards, and revenue sources.

► **CF-3 Provide city infrastructure and facilities that are efficient and safe and enhance local quality of life and human and environmental health.**

CF-3.1 Ensure that public services are available from the city, property developers, private providers, and others to support demands derived from new development at adopted level of service standards.

CF-3.2 Encourage the joint development and use of cultural and community facilities with other governmental or community organizations in areas of mutual concern and benefit.

CF-3.3 Promote the conservation, preservation or revitalization of commercial and residential areas within the downtown business area and along the shoreline area of Gig Harbor

CF-3.4 Coordinate land use decisions and financial resources with capital improvement planning to maintain and improve adopted level of service standards, and support future facility needs.

CF-3.5 Plan for the provision and extension of capital facilities in Shoreline Management Areas consistent with the goals, policies and objectives of the city's Shoreline Master Program.

CF-3.6 Ensure that benefits of capital investments to overburdened communities and historically disadvantaged populations are prioritized.