

Project Title - Number - Capital Plan Type - Target Completion Date - Description	Approved 2020 Budget	As of 12/31/2020 Actual Expenditures	Funds Available	FY 2020 Progress	Comments
- Completed projects highlighted in gray -					
1 Parks, Recreation, and Open Space Projects					
1.1 Small Parks, Street Ends, and Other Improvements (WP100R) CPR - Q4 2021					
Replace playground equipment at the end of its useful life at Roanoke Park; plan and install trail lighting along NE Quadrant trail of Pioneer Park, and install permanent fencing at the adventure playground at Deanes Children's Park.	\$171,000	\$0	\$171,000	Playground replacement at Roanoke Park is deferred to prioritize other playground work. Donation/grant funding for trail lighting and playground fencing not pursued.	Project funds reprogrammed to support a different project.
1.2 Open Space Management (WP122R/ WP122P) CRP - N/A					
Ongoing project to provide vegetation management and minor trail improvements in existing open space areas consistent with the 2004 Open Space Vegetation Plan and Pioneer Park Forest Management Plan (updated in 2015).	\$770,685	\$480,299	\$290,386	Contracted projects with professional restoration companies were delayed and reduced due to resource impacts of the COVID pandemic. Restoration tasks were completed in 16 natural areas/open spaces. Annual noxious weed mapping, monitoring, and management was completed. Mountains to Sound Greenway and Earth Corps held 8 community events, including a small event for the City's 3rd annual Arbor Day Celebration. Conducted boundary tree risk assessments, pruning, and removals as necessary.	Project work partially completed, adopted as a new project in the FY 2021-2026 CIP.
1.3 Groveland Beach Repairs and Renovations (WP506R) CRP - Q4 2024					
Replace fixtures at the restroom facilities at Groveland Beach park to reduce repairs and save water.	\$64,026	\$0	\$64,026	Not pursued due to resource impacts of the COVID-19 Pandemic.	Project funds carried forward and will be completed in FY 2021.
1.4 Clarke Beach Shoreline Restoration (WP506S) CRP - Q4 2024					
Remove antiquated swim enclosure and replace restroom fixtures at Clarke Beach. Design and plan for long-term shoreline restoration and park community visioning process, pending funding.	\$68,907	\$0	\$68,907	Swim enclosure removal deferred based on further evaluation of conditions.	Project cancelled.
1.5 Aubrey Davis Park Regional Master Plan (WP700P) CRP - Q4 2019					
Develop a master plan for the Aubrey Davis Park/I-90 Regional Trail in coordination with WSDOT. Engage Sound Transit and King County on major project coordination.	\$160,388	\$0	\$0		Project completed.
1.6 Lincoln Landing Stormwater & Park Improvements (WP710C) CRP - Q4 2019					
Improve recreation, shoreline habitat, and water quality by making improvements to deteriorating street end park at Lincoln Landing.	\$650,351	\$37,841	\$612,510	Final design and permitting nearly complete at the end of 2020. Construction planned for 2021. Fully grant funded.	Project postponed, adopted as a new project in the FY 2021-2026 CIP.
1.7 Minor Park Repairs (WP720R) CRP - Q4 2022					
Ongoing project to replace or refurbish signage, perform emergency repairs, purchase park furnishings, repave pathways, and other small projects to maintain basic City park infrastructure.	\$155,770	\$155,199	\$571	Completed roof repairs and cleaning on several park restroom buildings. New automatic locking system installed on restrooms in six parks. Large asphalt repair project completed in Island Crest Park. Worked with consultant to design short-term repairs for large dock at Luther Burbank Park.	Project completed.
1.8 Luther Burbank Shoreline Improvements (WP914R) CRP - Q4 2021					
Complete the multi-phase six-year Luther Burbank Park shoreline restoration project. Phase III construction preserves the shoreline and park property and constructs a new accessible shoreline trail north of the swim beach. Planning and construction for Phase IV of the swim beach is scheduled for 2021.	\$55,000	\$0	\$55,000	Project postponed due to COVID-19 Pandemic. New project in 2021-2026 CIP has design/permitting in Phase III with construction in 2022 and 2023. ADA access to swim beach is pushed out in later years. Completion of ADA transition plan expected in 2022, full renovation of the swim beach is shown in current adopted CIP for 2024-2026.	Project postponed, adopted as a new project in the FY 2021-2026 CIP.

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1.9	Luther Burbank Docks Repair and Reconfiguration (WP915P/R/S) CRP - Q4 2021					
	Three-year project to replace sections of the fixed pier with floating docks and reconfigure the current facility to better serve community use consistent with the 2006 Luther Burbank Park Master Plan.	\$282,195	\$125,643	\$156,552	Scoping, contracting, and site assessments completed in 2020. Public involvement and concept design continuing thru the end of 2020.	Project work partially completed, adopted as a new project in the FY 2021-2026 CIP.
1.10	Recreational Trail Connections (XP520R) CFP - Q4 2022					
	Acquire easements where needed, construct, and renovate trails to improve connectivity among the island's 29 miles of open trails and 35 miles of sidewalks and walkways. Potential 2019 projects include Upper Luther Ravine trail design and SE 47th trail, among others.	\$51,034	\$13,980	\$37,054	Property acquisition explored at one site; property issues with the I-90 trail were evaluated. Staff continued trail design and permit process for South Shoreline trail in Luther Burbank Park.	Project work partially completed, adopted as a new project in the FY 2021-2026 CIP.
1.11	Luther Burbank Park Operations and Maintenance Levy (XP710R) CFP - Q4 2023					
	Complete repairs and minor improvements to Luther Burbank Park infrastructure, equipment, and amenities consistent with the 2006 Luther Burbank Park Master Plan and 2008 Parks Levy.	\$138,648	\$116,595	\$22,053	Waterfront Plaza masonry repaired around Handsome Bollards; pursued permits for South Shoreline Aquatic Restoration; evaluated capital projects for the CIP budget; submitted permits for raw water irrigation and swim beach buoys.	Project funds carried forward and will be completed in FY 2021.
1.12	South Mercer Playfield Ballfield Backstop Safety Upgrades (XP910C) CFP - Q4 2020					
	Replace three existing backstops on baseball fields with taller backstops to reduce foul ball contact with spectators.	\$108,173	\$5,221	\$102,952	Preliminary scoping and ROM cost estimate by D. A. Hogan; project put on hold due to ILA discussions with MISD.	Project canceled.
1.13	S Mercer PF School District Projects (WP107S) CRP - Q4 2020					
	2020 Budget amendment to send MISD City-collected revenues for the all-weather field replacement at South Mercer; sinking fund transfer to MISD for field replacement project.	\$573,265	\$573,265	\$0	Sinking funds transferred for field replacement.	Project completed.
2	Streets, Pedestrian, and Bicycle Facilities Projects					
2.1	Residential Overlay - 77th Ave SE (WR101E) CRP - Q2 2019					
	Repave a residential street as part of a new watermain installation.	\$27,946	\$0	\$27,946	77th Ave in the 2200 block was repaved in 2019.	Project completed.
2.2	Residential Street Improvements (WR101R) CRP - N/A					
	Annual ongoing project to repair and resurface public residential streets, based upon conditional assessments. The City owns and maintains 58 miles of residential streets.	\$358,470	\$340,041	\$18,429	Contract awarded in June 2020. Two asphalt roads were repaired and resurfaced: SE 41st from 97th Ave to E. Mercer Way, and SE 78th Street at 85th Ave. Construction occurred July through September 2020.	Project completed.
2.3	Arterial Street Preservation (WR110R) CRP - N/A					
	Ongoing project to repair distressed and failing pavement segments on arterial streets to extend their useful life. Repairs include square cut patching and crack sealing.	\$27,816	\$19,385	\$8,431	Large patch on N. Mercer Way in the 7500 block was completed in July 2020 in conjunction with Project 2.2.	Project completed.
2.4	Pedestrian & Bicycle Facilities Implementation Plan (WR140C) CRP - N/A					
	Ongoing project to plan, design, and construct new pedestrian and bicycle amenities in areas identified in the Pedestrian and Bicycle Facilities (PBF) Plan with inadequate facilities for non-motorized users.	\$69,362	\$20,402	\$48,960	Completed crosswalk improvements at SE 36th St./NMW.	Project completed.
2.5	PBF ST-I-90 Trail Xing at Sunset Hwy/77th Ave SE (WR147X) CRP - Q4 2022					
	Plan, design, and construct intersection amenities to improve pedestrian and bicycle crossings and vehicular circulation at the Sunset Highway/77th Ave SE intersection. This intersection is directly adjacent to the East Link station and is expected to experience an increase in pedestrian and bicycle traffic.	\$100,000	\$0	\$100,000	No work performed in 2020.	Project postponed, adopted as a new project in the FY 2021-2026 CIP.
2.6	80th Ave Sidewalk Repair at SE 28th to SE 32nd (WR152R) CRP - Q4 2020					
	Pilot project to reconstruct curbs, sidewalks, ADA ramps, and replace street trees along the east side of 80th Avenue from SE 28th to SE 32nd Street.	\$395,660	\$1,111	\$394,549	Preliminary design work completed in spring of 2020. Further design and construction postponed until 2023 per TIP.	Project postponed, adopted as a new project in the FY 2021-2026 CIP.

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2.7 SE 40th (A) Corridor Improvement (WR517R) CRP - Q4 2018					
Add curbs, sidewalks, and bike lanes from Island Crest Way to Gallagher Hill Road.	\$25,000	\$0	\$25,000	Project completed in spring of 2019.	Project completed.
2.8 Street Improvements at SE 68th and SE 70th Place (WR916R) CRP - Q4 2020					
Repair and resurface the existing asphalt roadway from Island Crest Way to East Mercer Way.	\$525,000	\$24,617	\$500,383	Preliminary design work completed in 2020. Project postponed until 2022.	Project postponed, adopted as a new project in the FY 2021-2026 CIP.
2.9 Preservation - North Mercer Way (WR917R) CRP - 2019					
Resurface North Mercer Way with pavement grinding and a hot mix asphalt overlay.	\$155,000	\$155,000	\$0	Project was postponed and funds reallocated to the 2019 E. Mercer Way overlay project.	Project funds reprogrammed to support a different project.
2.10 Street Improvements at SE 40th St from 76th Ave to 78th Ave (WR918R) CRP - Q4 2019					
Reconstruct SE 40th Street from 76th to 78th Avenues with new asphalt pavement, new curbs on north side, and minor sidewalk replacements.	\$328,000	\$243,965	\$84,035	Construction contract awarded in June 2020. Roadway rebuilt in July and August 2020, in conjunction with Project 2.2.	Project completed.
2.11 Street Improvements at EMW from 4300 Block to SE 53rd PI (WR919R) CRP - Q4 2021					
Resurface East Mercer Way from 4300 block to SE 70th Place with a hot mix asphalt overlay in two phases in 2019 and 2021.	\$73,891	\$728	\$73,163	E. Mercer Way from 4300 block to SE 53rd Place was repaired and repaved in July through September 2019.	Project completed.
2.12 North-South Bike Route (XR140D) CFP - Q4 2020					
Conduct project scoping, alternative selection, public engagement, and final design to complete the gap in North/South bike route on Island Crest Way between 90th Ave SE and SE 63rd Street.	\$300,000	\$0	\$300,000	Project reprogrammed in TIP and 2021-2022 budget due to lack of staff resources. Project will start in 2022.	Project postponed, adopted as a new project in the FY 2021-2026 CIP.
2.13 West Mercer Way Roadside Shoulders, (Ph 2-3) (XR543C) CFP - Q2 2024					
Construct new paved shoulder along the northbound side of West Mercer Way from the 7400 block north to SE 65th Street, in 2020 and 2024.	\$305,415	\$225,033	\$80,382	Contract awarded in January 2020. Construction of the 0.35 mile Phase 2 project from 7400 block to SE 70th Street started in February and was completed in May 2020.	Project completed.
2.14 SE 36th and NMW Crosswalk (XR810R) CFP - Q4 2019					
Construct a pedestrian crosswalk with a pedestrian island, roadway re-channelization, ADA improvements, and a Rapid Flashing Beacon.	\$43,799	\$58,261	(\$14,462)	Construction contract awarded in December 2019. Work began in February 2020 and was completed at the end of March 2020.	Project completed.
2.15 ADA Compliance Plan Implementation (XR901C) CFP - N/A					
Ongoing project to identify, prioritize, design, and construct improvements to pedestrian facilities citywide to meet compliance standards established by the Americans with Disabilities Act (ADA).	\$75,000	\$64,239	\$10,761	Construction of ADA compliant crosswalk improvements at SE 36th St/Gallagher Hill Road/NMW.	Project completed.
2.16 Light Rail Station Planning (XG722P) CFP - Q4 2017					
Planning for new gateway area that is visually beautiful, maintains G. Hackett sculpture gallery and I-90 trail, and provides strong functional access between MI Station and Town Center.	\$50,000	\$0	\$50,000	No work completed in 2020.	Project canceled.
2.17 East Link Traffic/Safety Mitigation (ST0001) CFP - Q4 2024					
Construct traffic and safety improvements with center roadway closure resulting from the opening of East Link Rail Station (2023). Projects for 2019/20 include I-90 Trail crossing and speed feedback signage at W Mercer Elementary. Other improvements may include traffic signals, signal coordination, signage, crosswalks, pavement markings, and traffic calming.	\$425,493	\$280,534	\$144,959	Design and construction of I-90 trail crosswalk improvements at WMW near Aubrey Davis Park. Work complete except for procurement and installation of illumination.	Project funds carried forward and will be completed in FY 2021.
2.18 Commuter Parking Parcel 12 / Parkway Management Group (ST0020/ST0025) CFP - Q4 2023					
Construct 100 or more parking spaces for Island commuters within a mixed use project.	\$358,875	\$121,226	\$237,649	No work completed in 2020.	Project ended.

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3 General Government - Vehicle and Equipment Projects					
3.1 Fuel Clean Up - Soil Remediation (WG550R) CRP - Q4 2022					
Project to monitor and remediate soil at the Honeywell property site following clean-up of a fuel release from underground tanks until the property is cleared by the Department of Ecology.	\$514,340	\$225,839	\$288,501	Completed two additional PerfSulOx injection wells to reduce concentrations of petroleum hydrocarbons (including gasoline and benzene). Continuing site monitoring in 2021 & 2022 with a possible additional PerfSulOx injection to remediate site.	Project funds carried forward and will be completed in FY 2021.
3.2 Equipment Rental/Fleet Replacements (WG130E) CRP - N/A					
Ongoing project to replace equipment and vehicles at the end of their useful life in a timely and cost-effective manner to minimize fuel use, reduce emissions, and provide the desired community services.	\$687,917	\$410,509	\$277,408	Five of 11 pieces of equipment replaced including Marine Patrol boat engines and the Water Utility Jetter truck. Some equipment replacement delayed due to the COVID-19 Pandemic and replacement years added due to temporary decline in use.	Project funds carried forward and will be completed in FY 2021.
3.3 Firefighting Equipment (WG131E) CRP - N/A					
Ongoing project to replace firefighting equipment that has reached the end of its useful life, for example, antiquated thermal imaging cameras.	\$42,365	\$5,972	\$36,393		Project completed.
3.4 MICEC Technology & Equipment Replacement (WG141E) CRP - N/A					
Ongoing project to replace technology and equipment at the Mercer Island Community and Event Center that has reached the end of its useful life.	\$75,159	\$5,362	\$69,797	Replaced A/V hardware within Mercer Room and several security cameras that integrate with building access control system. Purchased additional carpet square carts for large events in gymnasium and for emergency shelter use.	Project work partially completed, adopted as a new project in the FY 2021-2026 CIP.
3.5 Self Contained Breathing Apparatus (WG730E) CRP - Q4 2018					
Replacement of Self Contained Breathing Apparatus (SCBA) including air tanks, packs, and masks that are beyond their useful life.	\$46,335	\$0	\$46,335	Project carried over from previous biennium. The "new" facemasks were still not at a design standard that satisfy wireless communication needs while wearing a breathing facemask.	Project canceled.
3.6 Auto License Plate Readers Pilot Project (WG134E) CRP - Q4 2020					
Project approved July 21, 2020 to improve parking enforcement capabilities and enhance staff capacity for identifying stolen vehicles.	\$86,907	\$83,984	\$2,923		Project completed.

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4 General Government - Building Reinvestment Projects					
4.1 City Hall Building Improvements (WG101T) CRP - 2020					
Project to refurbish City Hall council chambers, the court room, and City Hall kitchen facility as well as replace worn cubicle tiles, as required.	\$222,000	\$0	\$222,000	Due to COVID-19 project work postponed.	Project postponed, adopted as a new project in the FY 2021-2026 CIP.
4.2 City Hall Building Repairs (WG101R) CRP - N/A					
Ongoing capital investments to maintain the safety and integrity of City Hall.	\$489,135	\$57,099	\$432,036	Asphalt sealcoating completed. Water heater replaced.	Project work partially completed, adopted as a new project in the FY 2021-2026 CIP.
4.3 Public Works Building Repairs (WG102R) CRP - N/A					
Ongoing capital investments to maintain the safety and integrity of the Public Work's Maintenance Building.	\$114,220	\$101,355	\$12,865	Public Works washer/dryer installed. Chain link fence installed for added site security. Shop gate motor also replaced.	Project work partially completed, adopted as a new project in the FY 2021-2026 CIP.
4.4 South Fire Station Repairs (WG103R) CRP - N/A					
Ongoing capital investments to maintain the safety and integrity of the South Fire Station.	\$29,000	\$2,760	\$26,240	Replaced aging furniture.	Project work partially completed, adopted as a new project in the FY 2021-2026 CIP.
4.5 Thrift Store Repairs (WG104R) CRP - N/A					
Ongoing capital investments to maintain the safety and integrity of the Thrift Store.	\$144,088	\$55,911	\$88,177	Osborn Architects hired to look into land-use/code issues as well as design potential Thrift Shop remodel. Purchased storage containers for better organization.	Project work partially completed, adopted as a new project in the FY 2021-2026 CIP.
4.6 MI Community and Event Center Building Repairs (WG105R) CRP - N/A					
Ongoing capital investments to maintain the safety and integrity of the Mercer Island Community and Event Center.	\$346,681	\$51,815	\$294,866	Art Panel refurbishment completed. Plumbing, HVAC software, front entry door, and hood in catering kitchen repairs. Asphalt sealcoating completed.	Project work partially completed, adopted as a new project in the FY 2021-2026 CIP.
4.7 North Fire Station Repairs (WG106R) CRP - N/A					
Ongoing capital investments to maintain the safety and integrity of the North Fire Station.	\$40,000	\$5,235	\$34,765	Pass through window project completed.	Project work partially completed, adopted as a new project in the FY 2021-2026 CIP.
4.8 Luther Burbank Administration Building Repairs (WG107R) CRP - N/A					
Ongoing capital investments to maintain the safety and integrity of the buildings at Luther Burbank Park.	\$86,350	\$1,749	\$84,601	Due to COVID-19 project work postponed.	Project postponed, adopted as a new project in the FY 2021-2026 CIP.
4.9 Building Access Control (WG101B) CRP - Q1 2021					
Project established via a 2020 budget amendment to reprogram costs from other projects to complete the keyless entry and provide contact tracing abilities at City facilities. Partially reimbursed by CARES Act.	\$199,827	\$190,223	\$9,604	Project completed at City Hall, MICEC, and the Maintenance Building.	Project completed.

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5 General Government - Technology Projects					
5.1 Computer Equipment Replacements (WG110T) CRP - N/A					
Ongoing project to complete scheduled replacement of outdated desktop computers, printers, and associated equipment.	\$292,317	\$256,157	\$36,160	Staff replaced 1 Fire mobile data computer (MDC), 5 PW MDCs, 35 laptops, 16 desktops, 2 workstations, and 2 plotters.	Project completed.
5.2 Financial System Upgrades (WG113T) CRP - Q4 2019					
Upgrade the City's financial software system to the current version to facilitate budget development and streamline financial accounting and reporting capabilities.	\$5,000	\$0	\$5,000		Project postponed, adopted as a new project in the FY 2021-2026 CIP.
5.3 Permitting System Upgrades (WG314T) CRP - Q4 2024					
Update the City's permitting system to the most current and secure version to ensure streamlined permit processing that aligns with best practices established by the eCityGov Alliance and regional constituents.	\$30,429	\$0	\$30,429		Project postponed, adopted as a new project in the FY 2021-2026 CIP.
5.4 Police In-Car Video System Replacement (WG317T) CRP - Q4 2023					
Replace in-patrol-car video equipment that has reached the end of its useful life to ensure officer and public safety as well as meet prosecution	\$63,000	\$63,000	\$0	Equipment replaced.	Project completed.
5.5 Website Redesign (WG711T) CRP - Q1 2020					
Update the City's website to improve user experience, communication with the public, and access to City services.	\$38,435	\$27,590	\$10,845		Project completed.
5.6 Thrift Store Point of Sale Replacement (WG716T) CRP - Q4 2020					
Replace point of sale system at Thrift Store with modern technology.	\$26,500	\$26,500	\$0	Enhancements to the POS system were made instead of replacement.	Project completed.
5.7 Watercourse GIS Layer Update (WG717T) CRP - Q4 2019					
Update watercourse data to help enforce permitting requirements and analyze storm water drainage. Watercourses change over time and the existing data is decades old. Project will update watercourse and wetland information using best available science and technology.	\$4,102	\$2,024	\$2,078		Project completed.
5.8 High Accuracy Orthophotos (WG920T) CRP - Q4 2018					
Regional orthophotography flight to share costs with neighboring jurisdictions for high resolution aerial photographs of above ground features and infrastructure from which accurate measurements and analysis can occur.	\$32,000	\$12,143	\$19,857		Project completed.
5.9 Mobile Asset Data Collection (WG922T) CRP - Q4 2022					
Capture and utilize video images of city street and utility infrastructure visible from the public right of way to evaluate and plan infrastructure maintenance	\$40,521	\$10,373	\$30,148		Project completed.
5.10 Emergency Operations Center Technology (WG923T) CRP - Q4 2020					
Simplify access and use of emergency operations center technology for use in the wake of a major emergency event.	\$15,000	\$0	\$15,000	Due to the COVID-19 pandemic, no work was completed in 2020.	Project canceled.
5.11 Human Resources/Personnel Management System (WG940T) CRP - Q4 2020					
Update antiquated paper processes with new human resources software that includes applicant processing, onboarding, and ongoing performance management capabilities.	\$65,000	\$69,930	(\$4,930)	The Payroll portal will be live by end of Q3 2021. The HR and Benefits Portal should be implemented by Q4 2021. Annual cost for ongoing software subscription covered by the current Operating Budget.	Project completed.
5.12 Maintenance Management System (XG118T) CFP - Q2 2020					
Replace manual processes to manage parks and recreation assets with a software system for the maintenance and management of park facilities.	\$37,654	\$50	\$37,604		Project completed.

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5.13 Small Technology/Equipment Items (XG150T) CFP - N/A					
Ongoing project to purchase small items, office equipment, and new technology that increase staff efficiency and/or replace depleted materials.	\$88,445	\$11,552	\$76,893	Funds spent were used for a software system that archives City data.	Project work partially completed, adopted as a new project in the FY 2021-2026 CIP.
5.14 Sustainability Projects (XG152C) CFP - N/A					
Ongoing project that identifies and completes projects that further City sustainability policies, and generate operation and maintenance savings (i.e. reduced energy costs) from previous sustainability projects.	\$25,000	\$0	\$25,000	Due to the COVID-19 pandemic, this work was not completed in 2020.	Project canceled.
5.15 City Facility Security Cameras (WG934E) CRP - Q4 2020					
Replace out of date security cameras to prevent loss of merchandise and revenue at the Thrift Store and secure the City's water reservoir facilities.	\$24,569	\$21,321	\$3,248	Camera installation paused at Thrift Shop due to possibility of remodel. Camera installations will continue. No new purchases planned.	Project completed.
5.16 Network Communications Infrastructure (XG918T) CFP - Q4 2020					
Partner with King County and Sound Transit construction projects to install City-owned fiber optics for network communications in anticipation of large upcoming projects (SCADA, AMI, and PSERN).	\$114,402	\$17,450	\$96,952	Conduit laid across I-90 by Sound Transit. Payment for design work sent to King County. Fiber replaced between City Hall and Public Works.	Project completed.
6 Sewer Utility Projects					
6.1 Backyard Sewer System Improvements (WS101U) CRP - N/A					
Ongoing program to respond to 'backyard' sewers where access is difficult or non-existent. Work may include installation of new access points or clean-outs, the repair or rehabilitation of pipe, and securing access for future maintenance activities.	\$232,000	\$0	\$232,000	Due to staff limitations and the COVID-19 pandemic, this project was not completed.	Project canceled.
6.2 Comprehensive Hydraulic Model Development (WS104D) CRP - Q4 2019					
Develop a system-wide hydraulic model to aid in identifying capacity issues and future reinvestment needs for the City's sewer system.	\$180,000	\$0	\$180,000	Project deferred until the SCADA system is in place. Staff determined modeling is best suited with SCADA fully-functional.	Project postponed, adopted as a new project in the FY 2021-2026 CIP.
6.3 Comprehensive Inflow and Infiltration Evaluation (WS105P) CRP - Q4 2020					
Conduct comprehensive Inflow and Infiltration investigation of sewer basins to identify areas of concern for future reinvestment.	\$140,000	\$0	\$140,000	Project deferred until the SCADA system is in place. Staff determined capacity evaluations are best suited with SCADA fully-functional.	Project postponed, adopted as a new project in the FY 2021-2026 CIP.
6.4 Street Related Sewer CIP Projects (WS160R) CRP - N/A					
Ongoing project to complete sewer system improvements prior to or in conjunction with repaving city streets.	\$38,729	\$11,094	\$27,635	Project funds used to replace sewer system castings in conjunction with roadway paving projects.	Project completed.
6.5 Comprehensive Pipeline Repair and Replacement (WS710R) CRP - N/A					
Ongoing project to improve the sewer system via manhole rehabilitation and replacement, pipe and pipe lining rehabilitation and replacement, and smoke testing for inflow and infiltration.	\$350,000	\$0	\$350,000	Due to staff limitations and the COVID-19 pandemic, this project was not completed.	Project postponed, adopted as a new project in the FY 2021-2026 CIP.
6.6 Lake Line Access (WS711C) CRP - N/A					
Evaluate feasibility of and confirm locations for access points into the Lake Line for cleaning and other routine maintenance.	\$185,000	\$0	\$185,000	Due to staff limitations and the COVID-19 pandemic, no work was performed in 2020.	Project postponed, adopted as a new project in the FY 2021-2026 CIP.
6.7 Pump Station Accessibility Improvements (WS712P) CRP - N/A					
Address priority pump station accessibility issues to support pump station repair, rehabilitation, and capacity improvements. Evaluate access at all stations, identify conditions/concerns and needs, and prioritize future work.	\$173,529	\$0	\$173,529	Due to staff limitations and the COVID-19 pandemic, no work was performed in 2020.	Project postponed, adopted as a new project in the FY 2021-2026 CIP.

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6.8 SCADA System Replacement - Sewer (WS713T) CRP - Q4 2022					
Design and replace supervisory control and data acquisition (SCADA) systems including obsolete Remote Terminal Units (RTU's) at pump stations and reservoir and replace the Human-Machine Interface (HMI) at the maintenance building to provide the ability to monitor and control critical water and sewer	\$1,619,762	\$421,157	\$1,198,605	Consultant worked on graphics and programming. Draft report for the sewer pump stations ventilation study was completed. Design and operational control and communication strategies will continue into 2021.	Project work partially completed, adopted as a new project in the FY 2021-2026 CIP.
6.9 Lincoln Landing Pipe Improvements (WS714C) CRP - Q4 2019					
Replace sewer pipe system during the Lincoln Landing Stormwater and Park Improvement project.	\$201,614	\$0	\$201,614	Project is part of Lincoln Landing Stormwater and Park Improvements (WP710C). Project delayed. Bidding anticipated in Q3 2021. Appropriation will be requested at bid award.	Project canceled.
6.10 Sewer System Emergency Repairs (WS901E) CRP - N/A					
Ongoing program to repair or replace sewer system infrastructure on an emergency basis.	\$56,537	\$27,852	\$28,685	Replaced 40 feet of broken sewer pipe at 5045 WMW. Retained a consultant to complete the design to rehabilitate the remaining City owned portion of the pipe and install a manhole upstream of the pipe.	Project funds carried forward and will be completed in FY 2021.
6.11 Pump Station Generator and Pump Replacements (WS901F) CRP - Q1 2020					
Ongoing program to replace sewer pump station generators that provide emergency power.	\$302,123	\$234,574	\$67,549	Completed construction for generator replacements at Pump Stations 13, 17, and 24, and the pump replacement at Pump Station 18.	Project completed.
6.12 Sewer System Generator Replacement (WS901G) CRP - Q4 2022					
Ongoing program to replace sewer pump station generators that provide emergency power.	\$129,350	\$117,419	\$11,931	Completed generator replacement at Pump Station 11 and design for decommissioning the old generator.	Project completed.
6.13 Pump Station Flow Monitoring (WS906C) CRP - Q4 2024					
Install flow monitoring capabilities at pump stations to evaluate pump station capacity compared with flow during storm events.	\$31,415	\$64,814	(\$33,399)	Working in conjunction with SCADA project. Completed site visits at Pump Stations and finished the draft assessment report. This portion of the project will be complete in Q2 2021 with recommended improvements to meet National Fire Protection Agency 820 compliance standards for wastewater systems. Unspent funds from WS907C used to complete remaining work.	Project completed.
6.14 Pipe Flow Monitoring (WS907C) CRP - N/A					
Ongoing project to conduct flow monitoring in the sewer pipe network to understand system capacity and support prioritization and future system reinvestment needs.	\$105,000	\$15,673	\$89,327	Purchased flow monitoring equipment in 2019. Remaining project budget used to support completion of WS906C.	Project funds reprogrammed to support a different project.
6.15 Pump Station 23,24,25 Capacity Improvements (WS908R) CRP - Q4 2022					
Evaluate capacity levels and infiltration rates of the tributary basins at pump stations 23, 24, and 25, which experience high wet well levels during storm events.	\$111,000	\$0	\$111,000	Project deferred until the SCADA system is in place. Staff determined capacity evaluations are best suited with SCADA fully-functional.	Project canceled.
6.16 Reach 4 Lake Line Replacement - Feasibility & Assessment (WS950C) CRP - Q4 2022					
Assess pipe condition, identify preferred options, and estimate cost and feasibility of replacing/rehabilitating the Reach 4 Asbestos Cement Lake Line.	\$185,000	\$0	\$185,000	Due to staff limitations and the COVID-19 pandemic, no work was performed in 2020.	Project canceled.
7 Storm Water Utility Projects					
7.1 Watercourse Condition Assessments (WD104D) CRP - N/A					
Ongoing project to investigate and assess the physical condition and erosion rate of watercourses to prioritize restoration projects in the 2019-2020 CIP	\$44,000	\$28,997	\$15,003	Assessment and priority update completed in 2020.	Project completed.
7.2 Watercourse Minor Repairs and Maintenance (WD105R) CRP - N/A					
Ongoing project to complete minor repairs or removal of invasive vegetation in brooks, streams, and artificially constructed water channels identified through watercourse assessment efforts.	\$39,744	\$14,469	\$25,275	Minor repair made in Sub Basin 27.	Project completed.

Project Title - Number - Capital Plan Type - Target Completion Date - Description	Approved 2020 Budget	As of 12/31/2020 Actual Expenditures	Funds Available	FY 2020 Progress	Comments
- Completed projects highlighted in gray -					
7.3 Street Related Drainage Improvements (WD130R) CRP - N/A					
Annual ongoing project that provides drainage improvements prior to or in conjunction with repaving city streets.	\$114,183	\$24,215	\$89,968	Preliminary design work for 2021-2022 improvements performed in December 2020.	Project completed.
7.4 Drainage System Replacements (WD140R) CRP - N/A					
Ongoing project to replace aging and poorly functioning conveyance systems including areas of East Seattle, video inspection of East Mercer Way cross culverts, and new catch basins to collect sediment upstream of pipe outfalls.	\$259,940	\$81,832	\$178,108	The roadway drainage system on 97th Ave was in poor condition and was replaced in conjunction with the 2020 Water System Improvements (projects 8.12 and 8.14). Construction occurred in September 2020.	Project completed.
7.5 Neighborhood Spot Drainage Improvements (WD301S) CRP - N/A					
Annual ongoing project to improve the public stormwater system by correcting neighborhood drainage problems through repairs, extensions, and additions to the stormwater system.	\$188,256	\$82,629	\$105,627	Stormwater improvements related to the West Mercer Way Roadside Shoulders Phase 2 project were constructed in February and March 2020 in conjunction with Project 2.13.	Project completed.
7.6 Storm Emergency Repairs (WD320R) CRP - N/A					
Ongoing project to provide timely stormwater infrastructure repairs or replacements on an emergency basis as defective components are identified or localized failures occur.	\$40,000	\$49,797	(\$9,797)	Repairs completed February, 2020 due to landslide at 4700 EMW. Stabilized slope, cleared stormwater mainline inlet and EMW culvert crossing. Project at WMW 3700 block completed temporary conveyance repairs and replacement is incorporated into 2021-2022 Watercourse Stabilization project scope.	Project completed.
7.7 Sub Basin 49b (WD533C) CRP - Q4 2017					
Restore the highly eroded outfall with 8-feet high head cut, followed by channel incision of about 100-feet in length.	\$112,084	\$83	\$112,001	Project completed Fall 2019. Approximately 100 LF of watercourse has been stabilized. The outfall is now restored to historic level. The downstream reach has also been stabilized with stream cobbles and logs.	Project completed.
7.8 Sub Basin 51a (WD534C) CRP - Q4 2017					
Restore outlet erosion at 18-inch culvert off East Mercer Way, and two small head cuts downstream.	\$118,576	\$74	\$118,502	Project completed Fall 2019. Installed approximately 40 LF of outfall protection, and repaired two small head cuts downstream.	Project completed.
7.9 Watercourse Stabilization Project - Sub Basin 3b.4 (WD722R) CRP - Q4 2019					
Stabilize and restore the highly erodible, steep watercourse utilizing HDPE pipe if permitting agencies allow or through the use of large woody debris, log weirs, and other natural practices, where feasible, to prevent risk to adjacent	\$85,088	\$77,421	\$7,667	Project completed Fall 2020. Approximately 80 LF of the incised channel stabilized with stream rocks, large woody debris, and ecology blocks.	Project completed.
7.10 Drainage System Extension - Sub Basin 6, Madrona Crest W (WD723R) CRP - Q3 2019					
Construct drainage system improvements in the Madrona Crest West neighborhood (SE 36th, SE 37th, SE 39th, 86th Ave) prior to roadway repaving work.	\$220,000	\$13,060	\$206,940	Project postponed to 2021-2022. Preliminary design work performed in December 2020.	Project postponed, adopted as a new project in the FY 2021-2026 CIP.
7.11 Watercourse Stabilization Project - Sub Basin 29.2 Watercourse (WD724R) CRP - Q4 2019					
Install a 12-inch HDPE bypass pipeline from West Mercer Way to the ravine bottom junction structures, pipe anchors, and energy dissipation measures to stabilize and repair current area erosion.	\$104,915	\$117,596	(\$12,681)	Project completed Fall 2020. Approximately 100 LF of steep and incised channel stabilized with ripraps and large woody debris.	Project completed.
7.12 Watercourse Stabilization Project - Basin #42.1 and 42.1a Impvt (WD907R) CRP - Q3 2020					
Install bank protection and stream restoration measures along approx. 1000 linear feet of stream bank.	\$472,521	\$108,030	\$364,491	Design completed December 2020. Permitting and easement acquisitions continue. Depending on timing of when all these approvals are obtained, construction may take place in 2021 or 2022.	Project postponed, adopted as a new project in the FY 2021-2026 CIP.
7.13 Watercourse Stabilization Project - Basin #23.2 Improvements (WD908R) CRP - Q3 2021					
Stabilize the water channel, install a boulder cascade at the head cut, and replant disturbed areas with native vegetation.	\$35,000	\$36,207	(\$1,207)	This funding was for initial design only. At 2020 year-end, 30% of design was achieved. Design development, permitting, and easements requests continue in 2021.	Project completed.

Project Title - Number - Capital Plan Type - Target Completion Date - Description	Approved 2020 Budget	As of 12/31/2020 Actual Expenditures	Funds Available	FY 2020 Progress	Comments
- Completed projects highlighted in gray -					
7.14 Sub-Basin 10 Dissolved Metals Pilot Project (XD310C) CFP - Q4 2024					
Pilot project with King County to retrofit two catch basins in sub-basin 10 with crushed oyster shells as filter media, assess the effectiveness of the media to reduce levels of dissolved copper and zinc, and determine ease of application on a broader scale.	\$33,961	\$114	\$33,847	This project began in 2018 and was mostly grant funded. Initial monitoring results showed oyster shell filter media did not effectively filter dissolved metals from roadway runoff.	Project canceled.
7.15 Water Quality Treatment Improvements (XD311C) CFP - N/A					
Ongoing project to install water quality treatment devices (i.e., trash racks, debris cages) to reduce pollutant load in runoff before entering watercourses and Lake Washington.	\$75,000	\$0	\$75,000	No capital work performed in 2020. M&O work provided stormwater conveyance water quality improvements identified within EMW 4200-7900 block corridor.	Project cancelled.
7.16 Drainage System Extensions (XD900E) CFP - Q4 2024					
Construct storm drainage extensions in areas lacking adequate drainage systems. Project areas include SE 32nd/West Mercer Way and 84th Ave/SE 47th Street.	\$260,000	\$414	\$259,586	No work performed in 2020.	Project funds reprogrammed to support a different project.
8 Water Utility Projects					
8.1 Water System Plan Update (WW101P) CRP - Q4 2022					
Update the Water System Plan every 6 years as required by WAC-246-490. The next update is scheduled in 2021.	\$75,000	\$28,661	\$46,339	To meet the new federal 2018 AWIA requirements, a consultant was retained to begin Risk & Resilience Assessment (RRA) and ERP update project. Project teams began data/info collection Q4 2020. The RRA workshops will take place in Q2 2021. The upcoming Water System Plan	Project funds carried forward and will be completed in FY 2021.
8.2 Water Model Update and Fire Flow Analysis (WW102P) CRP - Q4 2024					
Biennial updates to the water system hydraulic model to incorporate improvements and changes to the water system resulting from capital improvements, maintenance activities, and private development.	\$30,228	\$28,765	\$1,463	Water modeling tasks completed in 2020 include modeling for two Water CIP projects, an Extended-Period Simulation (EPS) model update for the Booster Chlorination System project, and a water modeling for SPU's water main shutdown on the supply line to Mercer Island. One remaining modeling task will be completed in Q2 2021.	Project funds reprogrammed to support a different project.
8.3 Street Related Water System Improvements (WW117R) CRP - N/A					
Ongoing project to replace water main, fire hydrants, water service lines, and system components prior to or in conjunction with street repaving.	\$64,537	\$9,182	\$55,355	Water system infrastructure replaced in conjunction with street paving.	Project completed.
8.4 Meter Replacement Program (WW120S) CRP - Q4 2021					
Ongoing project to replace water meters outlined by the meter replacement program.	\$2,569,910	\$27,077	\$2,542,833	Identified preferred vendor from RFP, Ferguson-Sensus. Contract negotiations continued through 2020. Preferred vendor is expected to start work in Q3 2021.	Project work partially completed, adopted as a new project in the FY 2021-2022 CIP.
8.5 Hydrant Replacements (WW520C) CRP - N/A					
Ongoing biennial project to replace aging and undersized fire hydrants in various locations throughout the Island.	\$300,000	\$0	\$300,000	Due to other Water CIP project workloads, this project was pushed out to next biennium. No work completed in 2020.	Project postponed, adopted as a new project in the FY 2021-2026 CIP.

CAPITAL IMPROVEMENT PROGRAM

FY 2020 PROGRESS REPORT

Project Title - Number - Capital Plan Type - Target Completion Date - Description	Approved 2020 Budget	As of 12/31/2020 Actual Expenditures	Funds Available	FY 2020 Progress	Comments
<i>- Completed projects highlighted in gray -</i>					
8.6 Water Component Replacements (WW521C) CRP - N/A					
Ongoing project to replace water system components including air-vacuum release valves, blow-offs, in-line valves, and pressure reducing valves as needed.	\$51,588	\$35,760	\$15,828	Retained a consultant to help prepare bid-ready documents to address improvements needed from the Fall 2019 Department of Health sanitary sewer inspection. Entire project, through construction, must be complete by	Project postponed, adopted as a new project in the FY 2021-2026 CIP.
8.7 Reservoir Generator (WW522R) CRP - Q4 2019					
Replace the back-up power generator for the reservoir booster pump station, the emergency well at Rotary Park, and booster chlorination station.	\$176,919	\$88,473	\$88,446	Design work continued through 2020. Added additional items to design for relocating the diesel tank replacing the automatic transfer switch. Design will be complete Q2 2021 with the project going out to bid for construction later in 2021.	Project funds carried forward and will be completed in FY 2021.
8.8 Booster Chlorination Station (WW535D) CRP - Q4 2019					
Construct a booster disinfection system to reduce the risk of future water system contaminations, a project identified by the 2014 Boil Water Advisory long-term action plan.	\$1,080,769	\$188,701	\$892,068	Entered agreement with consultant for design in July 2020, with 50% design submitted to City in November. Design will continue thru Q2 2021 with optimization strategies, including hydraulic modeling to assist the design of the booster chlorination station.	Project funds reprogrammed to support a different project.
8.9 SCADA System Upgrade (WW713T) CRP - Q4 2024					
Design and replace Supervisory control and data acquisition (SCADA) systems including obsolete Remote Terminal Units (RTU's) at pump stations and reservoir and replace the Human-Machine Interface (HMI) at the maintenance building to provide the ability to monitor and control critical water and sewer utilities.	\$1,819,075	\$371,542	\$1,447,533	Project to upgrade the 5 variable frequency drives at the Reservoir Booster Pump Station was completed. Consultant worked on design and programming for the water sites and coordinated SCADA with the Booster CL2 design. Design specs and bid-ready documents were prepared and the project was bid in December 2020. Construction of the water sites are anticipated to finish in Q3 2021. Programming, design, operational control and communication strategies will continue into 2021.	Project work partially completed, adopted as a new project in the FY 2021-2026 CIP.
8.10 Water System Improvements at Main 82nd and Forest Ave (WW716R) CRP - Q3 2021					
Replace 4-inch and 6-inch cast iron water mains with 8-inch ductile iron water mains, along with fire hydrants, water service lines, and other water system components at 82nd Avenue and Forest Avenue.	\$122,000	\$0	\$122,000	Same as the Hydrant Replacement project (WW520C), this project was pushed out to the 2023-2024 biennium due workload priorities in 2020.	Project canceled.
8.11 Water System Improvements at Main SE 22nd Street (WW717R) CRP - Q3 2019					
Replace 6-inch cast iron and 1.5-inch galvanized iron water mains with 8-inch ductile iron water main, along with fire hydrants, water service lines, and other system components.	\$212,392	\$612	\$211,780	Construction completed in 2019.	Project completed.
8.12 Water System Improvement at Main 87th and 88th Ave SE (WW718R) CRP - Q3 2020					
Replace 6-inch cast iron with 8-inch ductile iron water mains, along with fire hydrants, water service lines, and other water system components.	\$1,136,689	\$421,319	\$715,370	Combined with water main project WW914R, the 2020 Water System Improvements completed in October include replacement and installation of 1,390 linear feet of water main, 8 fire hydrants, and 33 water services.	Project completed.
8.13 Water System Improvement at 82nd Ave SE Watermain N of 24 (WW913R) CRP - Q3 2021					
Replace the 6-inch cast iron with 8-inch ductile iron water mains, along with fire hydrants, water service lines, and other water system components.	\$110,000	\$94,330	\$15,670	Survey and design work began September 2020 with 75% of design submitted in November 2020. Scope of work includes replacing and installing water mains, water services, and fire hydrants on 82nd Ave SE, 81st Ave SE, and SE 24th St between 80th and 82nd Ave SE. Final design anticipated in Q2 2021 with construction planned for Q3 2021.	Project funds reprogrammed to support a different project.

Project Title - Number - Capital Plan Type - Target Completion Date - Description	Approved 2020 Budget	As of 12/31/2020 Actual Expenditures	Funds Available	FY 2020 Progress	Comments
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8.14 96th 97th Ave and SE 34th Main (WW914R) CRP - Q3 2019					
Replace 4-inch and 6-inch Cast Iron (CI) with 8-inch Ductile Iron (DI) mains, along with fire hydrants and other water system components. Abandon a section of 6-inch CI main and transfer water service lines to a second parallel water main.	\$333,464	\$257,362	\$76,102	Combined with water main project WW718R, the 2020 Water System Improvements completed in October 2020 include replacing and installing 1,390 linear feet of water main, 8 fire hydrants, and 33 water services.	Project completed.
8.15 Abandon Watermain at First Hill (WW915X) CRP - Q4 2020					
Abandon a 12-inch cast iron (installed 1955) redundant water main between the water reservoir and First Hill and transfer water service to an existing 16-inch water main that runs parallel to it.	\$200,000	\$0	\$200,000	Abandonment of this water main involves a complicated water main abandonment/replacement near reservoir. Due to scale of the project, staff determined a larger planning effort was needed. Upcoming water modeling in Q2 2021 will provide direction for future planning.	Project canceled.
8.16 Abandon Watermain to East Mercer Way (WW916X) CRP - Q2 2019					
Abandon a redundant 16-inch/12-inch water main parallel to a 16-inch supply line from East Mercer Way, through the "canyon", to east of the reservoir site.	\$75,000	\$0	\$75,000	This work was included in the scope of work in the Booster Chlorination System project (WW535D) which design/survey started in July 2020. The approved budget of \$75,000 for this project was not used.	Project funds reprogrammed to support a different project.