

# City of Black Diamond Capital Improvement Plan 2019 – 2024

August 2, 2018



Independence Day 2018 on Lake Sawyer  
(Photo Credit Craig Goodwin)

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# Overview of the Capital Improvement Plan

## What is the Capital Improvement Program?

The Capital Improvement Program (CIP) is a plan that lays out a six-year road map identifying present and future capital and infrastructure needs for the city. It is an investment in the future of our community.

Because the CIP is a plan rather than a budget, actual authorization for capital project spending for the upcoming year occurs when City Council adopts the Annual Budget in December.

Having the long range capital plan completed before the annual operating budget is developed helps management better incorporate both short and long term planning.

For each project there is an estimated start and completion date that has been projected by the city department in charge of the improvement. The CIP also defines the total cost of the project and the amount allocated to the project for each year of the plan.

Examples of projects in Black Diamond's six-year CIP include street rehabilitation, water projects, wastewater facilities, park improvements, a fire station and equipment, police capital facility needs, and general facility capital needs and improvement.

## How are projects in the Capital Improvement Plan paid for?

The CIP process involves balancing desired capital improvements that compete for scarce financial resources. Generally, funding for capital improvements is provided through Real Estate Excise Tax revenue (REET), capital reserves, public trust fund loans, grants, impact fees and developer funding.

Real estate excise taxes (REET) are collected from property sales within the city limits and are earmarked specifically for capital projects. However, in order to spend that money, a jurisdiction must have the project identified in a Capital Improvement Plan. So not only is the CIP a great overall planning tool for the city, it is also required to access REET monies.

Additionally, historical documentation of need is usually required when applying for grants. This need is documented in the CIP, as some projects get 'pushed out' from one year to the next due to lack of adequate funding.

## Types of Capital Projects

Capital projects are essential to the delivery of many of Black Diamond's core services. The capital projects in each major department are described below.

- Transportation The road system in Black Diamond is a vital infrastructure to city residents, visitors and commuters. This infrastructure includes roads, bridges, bike lanes and sidewalks. The responsibility for the funding and construction of transportation infrastructure is usually shared with developers in the form of impact fees, as new development has need for additional transportation improvements. Most of the funding for street improvement comes from grants.
- Parks and Recreation There are regional and local parks in Black Diamond as well as bike and hiking trails, a skate park and a BMX Course. Outdoor enthusiasts choose to live in Black Diamond for the natural beauty of the surroundings and sporting opportunities. Park facility improvements are primarily financed by grants, real estate excise taxes and developer contributions. A Comprehensive Parks Plan Project is part of this CIP.
- Utilities The city provides water, sewer and stormwater utility services to residents and businesses. Capital Facilities include water sources, facilities, reservoir, water lines, sewer treatment facilities, transmission systems and storm water detention facilities and culverts. Developers contribute to these projects, as growth requires infrastructure expansion. Utility fund reserves, grants, loans and real estate excise taxes also provide funding for utility capital projects in Black Diamond.
- Public Safety Capital facilities and equipment are required to deliver core city services of Police and Fire. These facilities include the fire and police stations, vehicles and major equipment and technology. Funding for these capital projects comes primarily from impact fees, developer funding, grants and real estate excise taxes.
- General Government Capital The city is responsible for funding the construction and maintenance of general capital facilities such as city buildings, vehicles and technology. These costs are primarily funded by real estate excise taxes in this CIP.

## Level of Service

The number and type of capital facilities needed to serve Black Diamond is directly related to the level of public service provided. The level of service is established by City Council and the City's Comprehensive Plan.

## Maintenance and Funding Constraints

Once completed and placed in service, capital facilities must be maintained. Funding for the maintenance of capital projects for City Utilities are funded with user fees in the respective operating budgets. Maintenance funding for projects are funded through current operations, not the capital budget. For that reason, the availability of funding for future maintenance must be considered when preparing the capital budget.

## Development and Approval Process

The Capital Improvement Plan is usually updated annually or every other year. Individual projects are submitted by department directors. They use a template provided by Finance staff. These requests include an update of current projects and projections on new projects and anticipated costs. Each project must have specific funding sources identified.

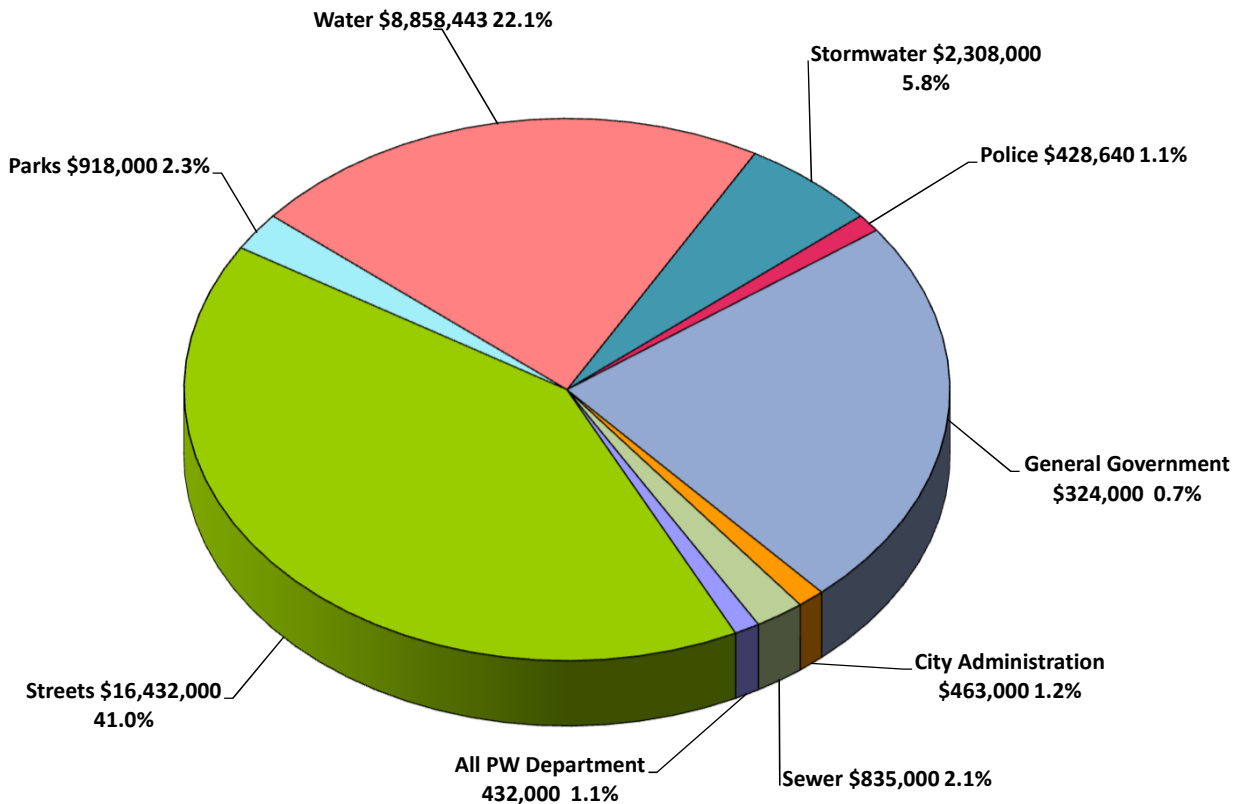
The Mayor, Finance Director and management meet to balance projects to available funding. Council workstudy sessions occur and a public hearing encourages public input. The proposed plan is then brought before Council for approval. This approved CIP then becomes an update and amendment to the capital facility portion of the city's Comprehensive Plan.

# Capital Improvement Plan 2019 - 2024

## Total Summary by Department

Departments	Total \$ Project 2019 - 2024	2019	2020	2021	2022	2023	2024
All PW Department Projects	432,000	72,000	72,000	72,000	72,000	72,000	72,000
Street Department	16,432,000	1,365,000	4,602,000	8,295,000	465,000	1,635,000	70,000
Water Department	8,858,443	2,934,443	2,914,000	683,000	109,000	868,000	1,350,000
Sewer Department	835,000	35,000	295,000	20,000	440,000	15,000	30,000
Stormwater Department	2,308,000	171,706	1,481,294	155,000	140,000	80,000	280,000
Parks and Recreation	918,000	195,500	62,500	45,000	5,000	35,000	575,000
Fire Department	9,384,276	600,000	272,000	250,000	600,000	360,000	7,302,276
Police Department	428,640	64,320	69,320	65,000	70,000	75,000	85,000
City Administration	463,000	93,000	97,000	76,000	75,000	75,000	47,000
<b>TOTAL Project Expenditures</b>	<b>\$40,059,359</b>	<b>\$5,530,969</b>	<b>\$9,865,114</b>	<b>\$9,661,000</b>	<b>\$1,976,000</b>	<b>\$3,215,000</b>	<b>\$9,811,276</b>

### Total City CIP 2019 - 2024 \$40,059,359



# Street Department

T1

## General Street Improvement

13.10

**DESCRIPTION**

**Light Street Maintenance.** Annually the Public Works staff assesses the street system and selects key street preservation and improvement work. Typical activities under this project are chip sealing, crack sealing, patch work and addressing minor safety problems.

**BACKGROUND**

This project provides annual funding for minor street improvements that typically do not require engineering.

CAPITAL PROJECT COSTS	Total \$ 2019 - 2024	2019	2020	2021	2022	2023	2024
Construction Costs	180,000	30,000	30,000	30,000	30,000	30,000	30,000
<b>TOTAL COSTS</b>	<b>180,000</b>	<b>30,000</b>	<b>30,000</b>	<b>30,000</b>	<b>30,000</b>	<b>30,000</b>	<b>30,000</b>
<b>REQUESTED FUNDING</b>							
Real Estate Excise Tax II	180,000	30,000	30,000	30,000	30,000	30,000	30,000
<b>TOTAL SOURCES</b>	<b>180,000</b>	<b>30,000</b>	<b>30,000</b>	<b>30,000</b>	<b>30,000</b>	<b>30,000</b>	<b>30,000</b>



**DESCRIPTION**

This project is used to accumulate funds for a match for grants for street and pedestrian projects now scheduled on the CIP.

**BACKGROUND**

The city has used this fund for professional technical assistance with grant applications and supplement funding if a grant is received for a project that needs to be moved up in the CIP schedule or if a larger match than anticipated is needed.

CAPITAL PROJECT COSTS	Total \$ 2019 -2024	2019	2020	2021	2022	2023	2024
Funding to Match Grants	240,000	40,000	40,000	40,000	40,000	40,000	40,000
<b>TOTAL COSTS</b>	<b>240,000</b>	<b>40,000</b>	<b>40,000</b>	<b>40,000</b>	<b>40,000</b>	<b>40,000</b>	<b>40,000</b>
<b>REQUESTED FUNDING</b>							
Real Estate Excise Tax II	240,000	40,000	40,000	40,000	40,000	40,000	40,000
<b>TOTAL SOURCES</b>	<b>240,000</b>	<b>40,000</b>	<b>40,000</b>	<b>40,000</b>	<b>40,000</b>	<b>40,000</b>	<b>40,000</b>

**What is a matching grant?**

A matching grant is a contingent grant awarded only if the receiving entity is able to put up (or independently raise) a sum equal to the amount provided by the granting entity.





Roberts Drive Improvements - 236th to Bruckners

**DESCRIPTION**

**Street Reconstruction.** This project links existing sidewalks on the south side of Roberts Drive with existing sidewalks ending at 236th Ave. SE and at Bruckners Way. This project would install a pedestrian crossing at Rock Creek, make some upgrades to the existing Rock Creek Bridge, install pedestrian lighting, and pave a small portion of the eastbound lane of Roberts Drive between the bridge and Bruckners Way. City costs for the design efforts in 2018 will meet the match requirements for TIB funding.

**BACKGROUND**

Design will be complete in 2018 and the city will seek construction funding for 2019.

CAPITAL PROJECT COSTS	Total \$ 2019 -2024	2019	2020	2021	2022	2023	2024
Construction Engineering	10,000	10,000					
Management & Administration	10,000	10,000					
Construction Costs	800,000	800,000					
<b>TOTAL COSTS</b>	<b>820,000</b>	<b>820,000</b>					
<b>REQUESTED FUNDING</b>							
TIB Grant	600,000	600,000					
Developer Contribution	80,000	80,000					
Real Estate Excise Tax II	100,000	100,000					
Grant Match	40,000	40,000					
<b>TOTAL SOURCES</b>	<b>820,000</b>	<b>820,000</b>					

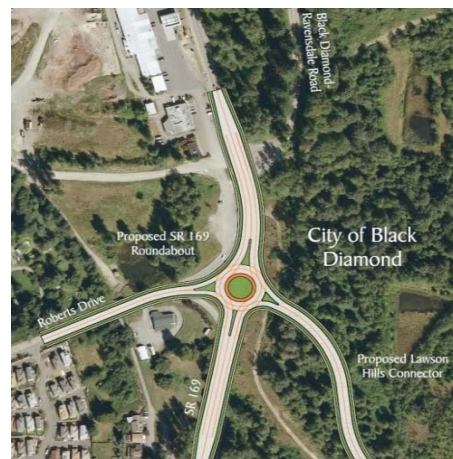


**DESCRIPTION** **Capacity Adding Project.** This project is to change the intersection control from stop control to one or two roundabouts and accommodate future road connections to the east for the Lawson Hills Master Planned Development and a new road to the west for the Ten Trails Development.

**BACKGROUND** The existing intersection has a higher accident rate than the average along the corridor. Roberts Drive intersects SR 169 at an angle which makes it difficult for east bound motorists to turn left and west bound motorists on Ravensdale to turn left; This intersection has been identified as one of the first traffic mitigation projects that is required in the Master Planned Development FEIS.

**COMMENTS** Because the city has had an existing deficiency at these intersections, the city in the development agreement has an obligation to seek grant funding to assist with moving these intersection improvements forward.

CAPITAL PROJECT COSTS	Total \$ 2019 -2024	2019	2020	2021	2022	2023	2024
Land/Right of Way	500,000		500,000				
Preliminary Engineering	400,000	400,000					
Environ Engr & Permitting	500,000		500,000				
Construction Engineering	750,000			750,000			
Bid Documents	100,000		100,000				
Design Engineering	1,500,000		1,500,000				
Construction Costs	7,050,000		700,000	6,350,000			
Environ Mitigation	600,000		600,000				
Management / Admin	600,000	20,000	180,000	400,000			
<b>TOTAL COSTS</b>	<b>12,000,000</b>	<b>420,000</b>	<b>4,080,000</b>	<b>7,500,000</b>			
<b>REQUESTED FUNDING</b>							
Developer Funded	11,800,000	420,000	3,880,000	7,500,000			
Grants	200,000		200,000				
<b>TOTAL SOURCES</b>	<b>12,000,000</b>	<b>420,000</b>	<b>4,080,000</b>	<b>7,500,000</b>			



## Park St. and SR 169 Intersection Safety Improvements

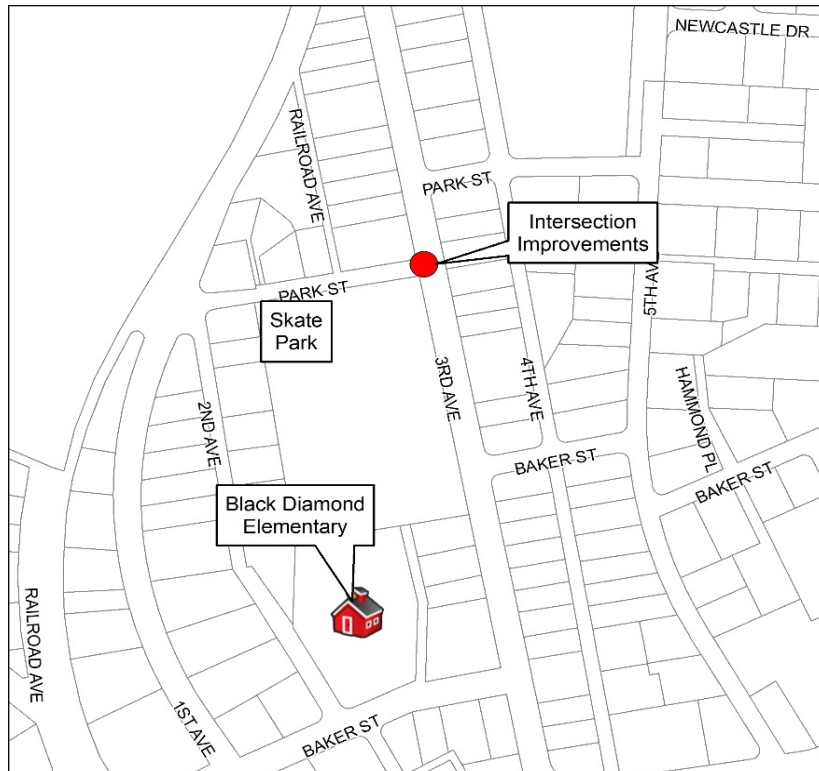
**DESCRIPTION**

This project would either close the Park Street access on the west side of SR 169 or close particular turning movements as recommended by the city's traffic engineer.

**BACKGROUND**

Traffic concurrency (mitigation) funds were received from the Enumclaw School District as part of the Black Diamond Elementary project to deal with the safety problem at this intersection.

CAPITAL PROJECT COSTS	Total \$ 2019 -2024	2019	2020	2021	2022	2023	2024
Design Engineering	5,000	5,000					
Management & Administration	2,000	2,000					
Construction Costs	23,000	23,000					
<b>TOTAL COSTS</b>	<b>30,000</b>	<b>30,000</b>					
<b>REQUESTED FUNDING</b>							
Street Mitigation Funds	30,000	30,000					
<b>TOTAL SOURCES</b>	<b>30,000</b>	<b>30,000</b>					



Morgan Creek Seal Coat Preservation

**DESCRIPTION**

Seal coat streets in the Morgan Creek Neighborhood.

**BACKGROUND**

The pavement condition is good but is old enough that it could start to show more cracking. A seal coat will help extend the life of the roads in this neighborhood.

CAPITAL PROJECT COSTS	Total \$ 2019 -2024	2019	2020	2021	2022	2023	2024
Engineering & Bid Docs	7,000		7,000				
Management & Administration	10,000		10,000				
Construction	90,000		90,000				
<b>TOTAL COSTS</b>	<b>107,000</b>		<b>107,000</b>				
<b>REQUESTED FUNDING</b>							
City Street Funds	50,000		50,000				
Real Estate Excise Tax II	57,000		57,000				
<b>TOTAL SOURCES</b>	<b>107,000</b>		<b>107,000</b>				



# Street Department

T7

## 232nd Ave. SE Overlay, SE 288th St. to SE 293rd Pl.

14.03

**DESCRIPTION**

Grind, grade and pave 1500 feet of 232nd Ave SE from SE 288th Street to SE 293rd Place.

CAPITAL PROJECT COSTS	Total \$ 2019 -2024	2019	2020	2021	2022	2023	2024
Design Engineering	20,000			20,000			
Management and Admin	10,000			10,000			
Construction	145,000			145,000			
<b>TOTAL COSTS</b>	<b>175,000</b>			<b>175,000</b>			
<b>REQUESTED FUNDING</b>							
Grants	148,750			148,750			
Grant Matching	26,250			26,250			
<b>TOTAL SOURCES</b>	<b>175,000</b>			<b>175,000</b>			



Downtown Public Parking

**DESCRIPTION**

Develop additional public parking in the downtown area of Baker Street and Railroad Ave.

**BACKGROUND**

Most of the existing buildings in the Railroad Ave area were constructed without off street parking lots other than the Eagles Hall. This area is zoned "Town Center" which does not require off street parking with the development of the property. There currently is a deficiency in available parking to support the existing businesses. The scope of this project will be refined in the initial preliminary engineering phase. In the preliminary phase of this project the city will compare several options for expanding parking in the area.

CAPITAL PROJECT COSTS	Total \$ 2019 -2024	2019	2020	2021	2022	2023	2024
Land/Right of Way	60,000		60,000				
Preliminary Engineering	10,000	10,000					
Design Engineering	10,000	10,000					
Management and Admin	5,000	5,000					
Construction	60,000		60,000				
<b>TOTAL COSTS</b>	<b>145,000</b>	<b>25,000</b>	<b>120,000</b>				
<b>REQUESTED FUNDING</b>							
Grants	108,000		108,000				
Real Estate Excise Tax II	25,000	25,000					
Grant Matching	12,000		12,000				
<b>TOTAL SOURCES</b>	<b>145,000</b>	<b>25,000</b>	<b>120,000</b>				



## SR 169 - James Street to Roberts Drive Sidewalk

14.02

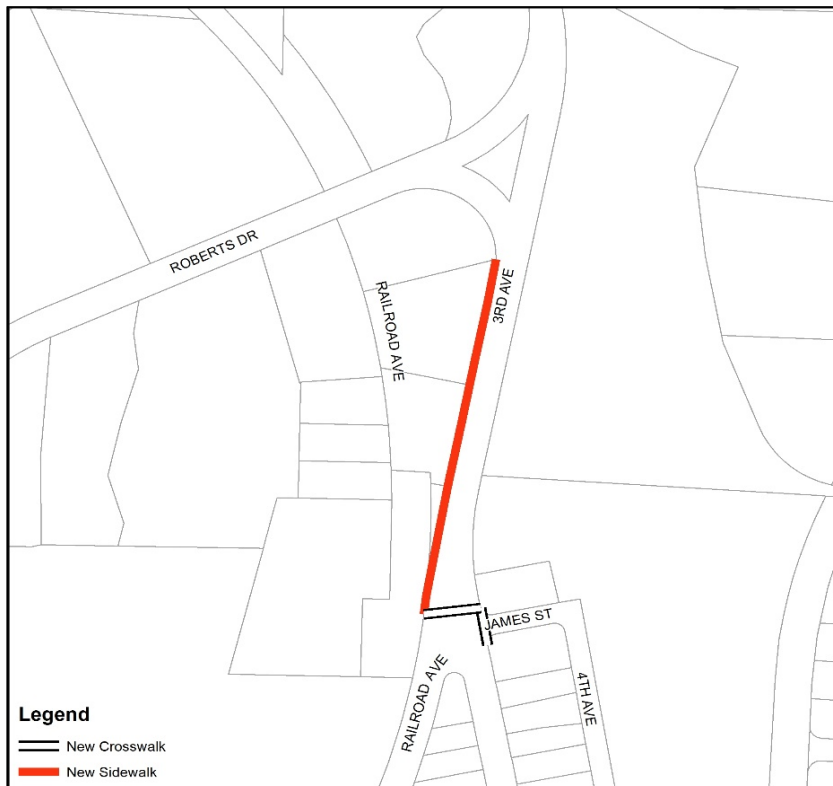
**DESCRIPTION**

Create a pedestrian link between James Street and Roberts Drive along SR 169 on the west side of the road.

**BACKGROUND**

This 6-foot wide sidewalk would provide a link to the downtown area and the north commercial area.

CAPITAL PROJECT COSTS	Total \$ 2019 -2024	2019	2020	2021	2022	2023	2024
Design & Bid Docs	140,000		140,000				
Management & Inspection	25,000		10,000	15,000			
Construction	385,000			385,000			
<b>TOTAL COSTS</b>	<b>550,000</b>		<b>150,000</b>	<b>400,000</b>			
<b>REQUESTED FUNDING</b>							
Grant Matching	52,500		22,500	30,000			
Real Estate Excise Tax II	30,000			30,000			
Grants	467,500		127,500	340,000			
<b>TOTAL SOURCES</b>	<b>550,000</b>		<b>150,000</b>	<b>400,000</b>			



## 216th Avenue SE Overlay

**DESCRIPTION**

**Major Street Maintenance.** Patch and overlay 216th Ave. SE from SE 288th St. to SE 296th St. Chip seal may be an option in this location.

**BACKGROUND**

The pavement condition is average to poor. The roadway width and side improvements vary. The engineering, bid process, inspections and project management will be provided by city staff. This is a heavy traffic area project.

CAPITAL PROJECT COSTS	Total \$ 2019 -2024	2019	2020	2021	2022	2023	2024
Engineering & Bid Docs	20,000					20,000	
Management & Administration	15,000					15,000	
Construction	145,000					145,000	
<b>TOTAL COSTS</b>	<b>180,000</b>					<b>180,000</b>	
<b>REQUESTED FUNDING</b>							
TIB Pavement Preservation Grant	153,000					153,000	
Grant Matching	27,000					27,000	
<b>TOTAL SOURCES</b>	<b>180,000</b>					<b>180,000</b>	





Morgan Creek Pedestrian Connector

**DESCRIPTION**

Pedestrian link from the backside of the Morgan Creek neighborhood to SR 169.

**BACKGROUND**

This project would provide a pedestrian connection for the residents of the Morgan Creek neighborhood to the commercial area along SR 169. Sidewalks along the county-owned Black Diamond-Ravensdale Road are not a cost-effective option.

**COMMENTS**

Commercial development along the east side of SR 169 is becoming more probable. Commercial developers along the east side of SR 169 will be required to construct pedestrian connection as part of frontage improvements.

CAPITAL PROJECT COSTS	Total \$ 2019 -2024	2019	2020	2021	2022	2023	2024
Design Engineering	50,000		50,000				
Management & Administration	10,000			10,000			
Construction Costs	140,000			140,000			
<b>TOTAL COSTS</b>	<b>200,000</b>		<b>50,000</b>	<b>150,000</b>			
<b>REQUESTED FUNDING</b>							
Developer Funding Frontage Impr.	200,000		50,000	150,000			
<b>TOTAL SOURCES</b>	<b>200,000</b>		<b>50,000</b>	<b>150,000</b>			



Roberts Drive Rehabilitation - Library to SR 169

14.02

**DESCRIPTION**

**Major Street Maintenance from the Library to SR 169 (3000 ft.).** Seal joints and cracks; Plane the concrete to a smooth surface; Install fabric to minimize reflective cracking; Widen shoulders; Asphalt overlay; install sidewalks and street lights from Library to SR 169.

**BACKGROUND**

The concrete roadway is about 100 years old but needs repair work. This project will be the final phase of work on Roberts Drive between the western city limits and SR 169.

CAPITAL PROJECT COSTS	Total \$ 2019 -2024	2019	2020	2021	2022	2023	2024
Design & Bid Docs	350,000				350,000		
Management & Inspection	40,000				15,000	25,000	
Construction	1,360,000					1,360,000	
<b>TOTAL COSTS</b>	<b>1,750,000</b>				<b>365,000</b>	<b>1,385,000</b>	
<b>REQUESTED FUNDING</b>							
Grant Matching	80,000				40,000	40,000	
Real Estate Excise Tax II	182,500				14,750	167,750	
Grants	1,487,500				310,250	1,177,250	
<b>TOTAL SOURCES</b>	<b>1,750,000</b>				<b>365,000</b>	<b>1,385,000</b>	



224th Guardrail @ Cov Creek

**DESCRIPTION**

**Safety Project.** This safety project is to install guard rail on both sides of the road at the Covington Creek culverts on 224th Ave SE. This project would be an interim solution until this project could be combined with a larger culvert replacement project that could result in a bridge at this location.

**BACKGROUND**

Staff and the committee determined that guard rails at Covington Creek would provide a greater risk reduction for errant vehicles than the Abrams project was dropped and priorities shifted.

CAPITAL PROJECT COSTS	Total \$ 2019 -2024	2019	2020	2021	2022	2023	2024
Management & Administration	2,500		2,500				
Construction Costs	22,500		22,500				
<b>TOTAL COSTS</b>	<b>25,000</b>		<b>25,000</b>				
<b>REQUESTED FUNDING</b>							
Real Estate Excise Tax II	25,000		25,000				
<b>TOTAL SOURCES</b>	<b>25,000</b>		<b>25,000</b>				



Downtown Pedestrian and Bicycle Link Study

**DESCRIPTION**

**Pedestrian Project:** This study will identify the best routes for pedestrians and bicycles to connect to the north and south of the old downtown area and identify right of way acquisition if needed.

**BACKGROUND**

The existing right of way for the state route is inadequate for widening to accommodate additional lanes along with pedestrian and bicycles. The study will investigate various bypass routes and key connection points, and provide opportunities for public input. Once the city has approved a pedestrian and bicycle plan for the downtown area the city will be in a better position to seek funding for these important alternative mode connections.

CAPITAL PROJECT COSTS	Total \$ 2019 -2024	2019	2020	2021	2022	2023	2024
Preliminary Engineering	10,000				10,000		
Design Engineering	20,000				20,000		
<b>TOTAL COSTS</b>	<b>30,000</b>				<b>30,000</b>		
<b>REQUESTED FUNDING</b>							
Grant Match	3,000				3,000		
Pedestrian Grant	27,000				27,000		
<b>TOTAL SOURCES</b>	<b>30,000</b>				<b>30,000</b>		



# Street Department (Transportation Projects)

## CAPITAL PROJECT SUMMARY

Summary by Project		Capital Plan 2019 - 2024						
Project Title		Total \$ 2019 - 2024	2019	2020	2021	2022	2023	2024
T1	General Street Improvement	180,000	30,000	30,000	30,000	30,000	30,000	30,000
T2	Grant Matching Project	240,000	40,000	40,000	40,000	40,000	40,000	40,000
T3	Roberts Drive Improvements - 236th to Bruckners	820,000	820,000					
T4	SR 169 Roundabouts	12,000,000	420,000	4,080,000	7,500,000			
T5	Park St. & SR 169 Intersection Safety Improve.	30,000	30,000					
T6	Morgan Creek Seal Coat Preservation	107,000		107,000				
T7	232nd Ave. SE Overlay, SE 288th to SE 293rd	175,000			175,000			
T8	Downtown Public Parking	145,000	25,000	120,000				
T9	SR 169 - James St. to Roberts Dr. Sidewalk	550,000		150,000	400,000			
T10	216th Ave SE Overlay	180,000					180,000	
T11	Morgan Creek Pedestrian Connector	200,000		50,000	150,000			
T12	Roberts Dr. Rehab - Library to SR 169	1,750,000				365,000	1,385,000	
T13	224th Guardrail at Covington Creek	25,000		25,000				
T14	Downtown Pedestrian and Bicycle Link Study	30,000				30,000		
<b>TOTAL ESTIMATED COSTS</b>		<b>16,432,000</b>	<b>1,365,000</b>	<b>4,602,000</b>	<b>8,295,000</b>	<b>465,000</b>	<b>1,635,000</b>	<b>70,000</b>
<b>Funding Sources</b>								
<b>TIB, CDBG and Other Grants</b>								
T3	Roberts Drive Improvements - 236th to Bruckners	600,000	600,000					
T4	SR 169 Roundabouts	200,000		200,000				
T7	232nd Ave. SE Overlay, SE 288th to SE 293rd	148,750			148,750			
T8	Downtown Public Parking	108,000		108,000				
T9	SR 169 - James St. to Roberts Dr. Sidewalk	467,500		127,500	340,000			
T10	216th Ave SE Overlay	153,000					153,000	
T12	Roberts Dr. Rehab - Library to SR 169	1,487,500				310,250	1,177,250	
T14	Downtown Pedestrian and Bicycle Link Study	27,000				27,000		
<b>Total Grant Funding</b>		<b>3,191,750</b>	<b>600,000</b>	<b>435,500</b>	<b>488,750</b>	<b>337,250</b>	<b>1,330,250</b>	
<b>Developer Funded/Impact Fees/SEPA</b>								
T3	Roberts Drive Improvements - 236th to Bruckners	80,000	80,000					
T4	SR 169 Roundabouts	11,800,000	420,000	3,880,000	7,500,000			
T5	Park St. & SR 169 Intersection Safety Improve.	30,000	30,000					
T11	Morgan Creek Pedestrian Connector	200,000		50,000	150,000			
<b>Total Developer/Impact/SEPA Funding</b>		<b>12,110,000</b>	<b>530,000</b>	<b>3,930,000</b>	<b>7,650,000</b>			
<b>Street Funding</b>								
T6	Morgan Creek Seal Coat Preservation	50,000		50,000				
<b>Total Street Funding</b>		<b>50,000</b>		<b>50,000</b>				
<b>Real Estate Excise Tax II Funding or Grant Matching</b>								
T1	General Street Improvement	180,000	30,000	30,000	30,000	30,000	30,000	30,000
T2	Grant Matching Project	240,000	40,000	40,000	40,000	40,000	40,000	40,000
T3	Roberts Drive Improvements - 236th to Bruckners	100,000	100,000					
T3	Roberts Drive Improvements - 236th to Bruckners	40,000	40,000					
T6	Morgan Creek Seal Coat Preservation	57,000		57,000				
T7	232nd Ave. SE Overlay, SE 288th to SE 293rd	26,250			26,250			
T8	Downtown Public Parking	37,000	25,000	12,000				
T9	SR 169 - James St. to Roberts Dr. Sidewalk	82,500		22,500	60,000			
T10	216th Ave SE Overlay	27,000					27,000	
T12	Roberts Dr. Rehab - Library to SR 169	262,500				54,750	207,750	
T13	224th Guardrail at Covington Creek	25,000		25,000				
T14	Downtown Pedestrian and Bicycle Link Study	3,000				3,000		
<b>Total Real Estate Excise Tax II Funding</b>		<b>1,080,250</b>	<b>235,000</b>	<b>186,500</b>	<b>156,250</b>	<b>127,750</b>	<b>304,750</b>	<b>70,000</b>
<b>TOTAL ESTIMATED FUNDING SOURCES</b>		<b>16,432,000</b>	<b>1,365,000</b>	<b>4,602,000</b>	<b>8,295,000</b>	<b>465,000</b>	<b>1,635,000</b>	<b>70,000</b>

## Springs & Transmission Reconstruction (WSFFA)

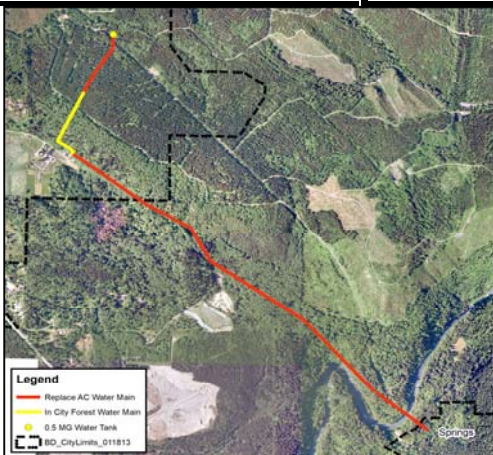
13.06

**DESCRIPTION** This project will protect and rehabilitate the existing open springs, replacing pipes over the steep slope, and reconstructing the river crossing. This will include a new pumping system and replacing the transmission main back to Black Diamond.

**BACKGROUND** In late 2013, the city contracted with RH2 to study and compare two alternative concepts to improve and redevelop the springs to full water right capacity. The Springs Alternative Analysis Study recommended that the city pursue tapping an artesian spring on the north side of the river rather than reconstructing the spring collection system on the south side. After discussions with the Department of Health and Department of Ecology, it was determined that the city could not transfer its water right to the north side of the Green River, leaving the city to only withdraw water from the current location.

**COMMENTS** This is a capacity and system reliability project funded by the Water Supply and Facilities Funding Agreement (WSFFA).

CAPITAL PROJECT COSTS	Total \$ 2019 - 2024	2019	2020	2021	2022	2023	2024
Road/bldg imp.	30,000		30,000				
Preliminary Engineering		<i>complete</i>					
Design Engineering	600,000	600,000					
Management / Admin	75,000	25,000	50,000				
Easements	15,000	15,000					
Construction Costs	4,000,000	2,000,000	2,000,000				
Legal Fees	15,000	5,000	10,000				
<b>TOTAL COSTS</b>	<b>4,735,000</b>	<b>2,645,000</b>	<b>2,090,000</b>				
<b>REQUESTED FUNDING</b>							
Water Supply & Fac. Fnd Agrmt.	4,735,000	2,645,000	2,090,000				
<b>TOTAL SOURCES</b>	<b>4,735,000</b>	<b>2,645,000</b>	<b>2,090,000</b>				



## Fire Flow Loop - North Commercial Area

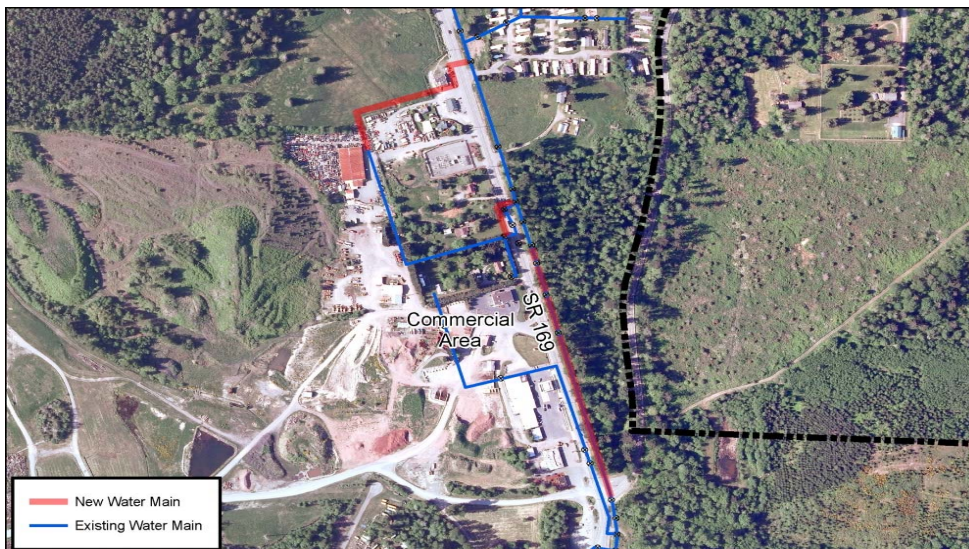
13.08

**DESCRIPTION** Replace 200 feet of 4 inch asbestos concrete with 12 inch ductile iron water main across SR 169 at the power substation; complete a 750 foot 12 inch ductile iron water main loop from Cedar Brook Mobile Home Park to the 6 inch asbestos water main behind Boots Tavern. Replace 1,200 feet of 8 inch asbestos water main on the west side of SR 169 from Ravensdale Road north to the existing 12 inch ductile iron water main. There will be 2,150 feet of 12 inch water in total.

**BACKGROUND** This is a capacity and system reliability project. Other commercial properties development along SR-169 may also be contributing or constructing portions of this project, if required through SEPA. This project can easily be phased if funding is short.

**COMMENTS** This project does not describe what is needed to provide fire flow and redundant service to the north triangle but rather is the minimum to provide a looped system for the north part of the existing city system. This project is being moved up in priority in order to install the 12 inch water mains through the Roberts and Ravensdale intersections before the roundabouts are constructed.

CAPITAL PROJECT COSTS	Total \$ 2019 - 2024	2019	2020	2021	2022	2023	2024
Management / Administration	30,000	30,000					
Permitting, easements, legal	30,000	30,000					
Engineering	85,000	85,000					
Construction Costs	690,000		690,000				
<b>TOTAL COSTS</b>	<b>835,000</b>	<b>145,000</b>	<b>690,000</b>				
<b>REQUESTED FUNDING</b>							
Water Fund Reserves	417,500	72,500	345,000				
Developer Mitigation	417,500	72,500	345,000				
<b>TOTAL SOURCES</b>	<b>835,000</b>	<b>145,000</b>	<b>690,000</b>				



## 4.3 Mil Gal Tank Maintenance & Repairs

14.11

**DESCRIPTION**                      The 4.3 million gallon water tank will be 13 years old in 2019. The interior will need **inspection**. The exterior will need **cleaning** and potentially **spot treatment** where the coating is damaged.

**COMMENTS**                        While this project is a maintenance project, the work does extend the life of the coating by 10 years or more and therefore is included in this Capital Improvement Plan

<b>CAPITAL PROJECT COSTS</b>	<b>Total \$ 2019 - 2024</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>
Water Tank Maintenance	35,000	35,000					
<b>TOTAL COSTS</b>	<b>35,000</b>	<b>35,000</b>					
<b>REQUESTED FUNDING</b>							
Water Rates	35,000	35,000					
<b>TOTAL SOURCES</b>	<b>35,000</b>	<b>35,000</b>					

Newly constructed



August 2016

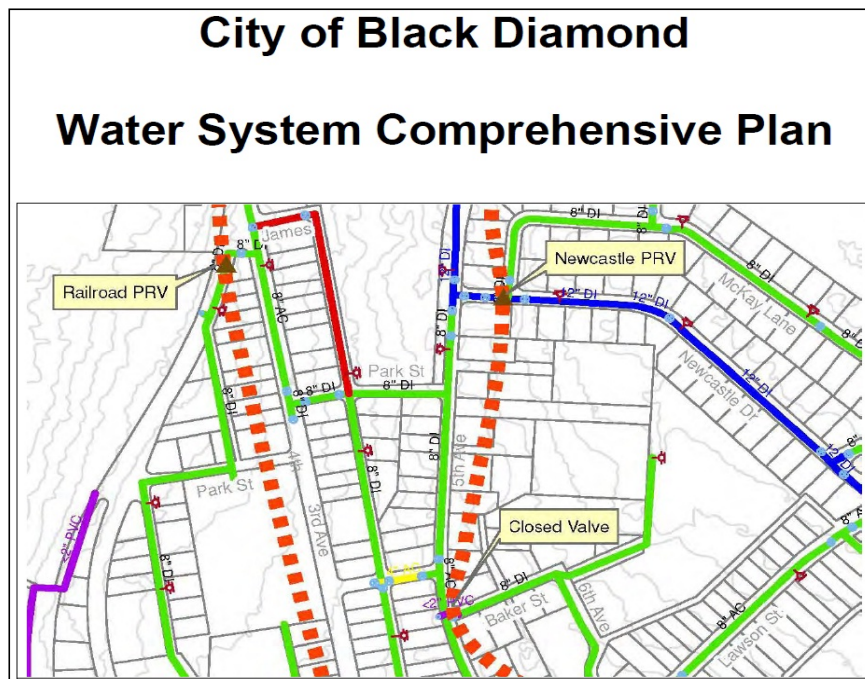




**DESCRIPTION**

The Department of Health requires an update of the Water Comprehensive Plan every 6 years to 10 years. The city received an extension of the previous Water Comprehensive Plan which moved the expiration date to February 15, 2020.

CAPITAL PROJECT COSTS	Total \$ 2019 - 2024	2019	2020	2021	2022	2023	2024
Management / Administration	5,000	5,000					
In house engineering	5,000	5,000					
Engineering Consultant	68,243	68,243					
Public hearings/edits/approval	20,000	20,000					
<b>TOTAL COSTS</b>	<b>98,243</b>	<b>98,243</b>					
<b>REQUESTED FUNDING</b>							
Carryover Water Funds	98,243	98,243					
<b>TOTAL SOURCES</b>	<b>98,243</b>	<b>98,243</b>					



## Asbestos Water Main Replacement Program - Morganville South

17.13

**DESCRIPTION**

Replace 4 inch asbestos and 2 inch cast iron water main on Morgan Drive from Roberts Drive to the south end of Morgan Drive, connecting to an existing 8 inch main on Buena Vista Drive, and on Union from Buena Vista Drive to approximately 230 feet south of Roberts Drive, a total of approximately 1630 feet.

**BACKGROUND**

This project will improve fire flows to the Morganville area and replace substandard pipe that is nearing its useful performance life. An income survey will be required to determine eligibility for Community Development Block Grant Funding.

**COMMENTS**

Further future study of the existing asbestos water mains may show that a different asbestos water main should be replaced than this particular water main. Leak history, street reconstruction projects, pavement condition, developer improvements and asbestos pipe strength tests may change the priority of the asbestos pipe to be replaced.

CAPITAL PROJECT COSTS	Total \$ 2019 - 2024	2019	2020	2021	2022	2023	2024
Income Survey/ CDBG Application	1,200	1,200					
Preliminary Engineering	21,000		21,000				
Engineering, Design, Bid Docs	73,000		73,000				
Management / Administration	21,500		10,000	11,500			
Construction	405,000			405,000			
Contingency	40,500			40,500			
<b>TOTAL COSTS</b>	<b>562,200</b>	<b>1,200</b>	<b>104,000</b>	<b>457,000</b>			
<b>REQUESTED FUNDING</b>							
KC CDBG Grant	476,000		90,000	386,000			
Water Rates	86,200	1,200	14,000	71,000			
<b>TOTAL SOURCES</b>	<b>562,200</b>	<b>1,200</b>	<b>104,000</b>	<b>457,000</b>			



## Asbestos Water Main Replacement Program - Morganville North

17.13

**DESCRIPTION**

Replace 4 inch and 6 inch asbestos water main on Morgan Drive from Roberts Drive to the north end of Morgan Drive, east to Union and then south 350 feet to the existing ductile iron pipe, 1600 feet.

**BACKGROUND**

This project will improve fire flows to the Morganville area and replace substandard pipe that is nearing its useful performance life. An income survey will be required to determine eligibility for Community Development Block Grant Funding.

**COMMENTS**

Further future study of the existing asbestos water mains may show that a different asbestos water main should be replaced than this particular water main. Leak history, street reconstruction projects, pavement condition, developer improvements and asbestos pipe strength tests may change the priority of the asbestos pipe to be replaced.

CAPITAL PROJECT COSTS	Total \$ 2019 - 2024	2019	2020	2021	2022	2023	2024
Income Survey/ CDBG Application	1,000			1,000			
Preliminary Engineering	20,000				20,000		
Engineering, Design, Bid Docs	70,000				70,000		
Management / Administration	19,000				9,000	10,000	
Construction	380,000					380,000	
Contingency	38,000					38,000	
<b>TOTAL COSTS</b>	<b>528,000</b>			<b>1,000</b>	<b>99,000</b>	<b>428,000</b>	
<b>REQUESTED FUNDING</b>							
KC CDBG Grant	476,000				90,000	386,000	
Water Rates	52,000			1,000	9,000	42,000	
<b>TOTAL SOURCES</b>	<b>528,000</b>			<b>1,000</b>	<b>99,000</b>	<b>428,000</b>	



## 0.5 MG Water Reservoir Recoat

**DESCRIPTION** Repaint the 0.5 MG reservoir inside and out. This project would also add equipment for water mixing in the tank to eliminate stagnation and to insure chlorine residuals remain at optimum levels prior to distribution.

**BACKGROUND** The city drained and inspected the interior of the water tank in 2015. The interior coating has deteriorated to a point where total replacement is needed. If the developer were to move forward with development above this reservoir, it may be a better solution to rebuild the storage capacity up above at a higher elevation. However the lower reservoir would need to last until the higher one is built.

**COMMENTS** This project may be pushed out a few more years waiting for the development schedule for Lawson Hills in order to make a decision to defer the project for a few more years or move forward and paint the tank and preserve it.

CAPITAL PROJECT COSTS	Total \$ 2019 - 2024	2019	2020	2021	2022	2023	2024
Design Engineering & Bid Docs	20,000		20,000				
Specialty Inspection	10,000			10,000			
Tank Painting	180,000			180,000			
Tank Mixing	20,000			20,000			
Project Management	5,000			5,000			
<b>TOTAL COSTS</b>	<b>235,000</b>		<b>20,000</b>	<b>215,000</b>			
<b>REQUESTED FUNDING</b>							
Interfund Loan from Sewer	235,000		20,000	215,000			
<b>TOTAL SOURCES</b>	<b>235,000</b>		<b>20,000</b>	<b>215,000</b>			
<b>Five year term at 1%</b>					48,426	48,426	48,426



Pacific Street Water Line Loop

**DESCRIPTION** Construction of 1,200 lineal feet of 8 inch ductile iron water line from the intersection with Pacific Ave to Old Lawson Road to provide system looping.

**BACKGROUND** The homes on 5th Ave, Pacific Ave Pacific Street and Old Lawson are all on dead end lines which can cause water quality issues, reduces fire flow and can cause interruption of service to more people when a water main needs to be shut down for service.

**COMMENTS** Easements will be needed to complete the water line loop.

CAPITAL PROJECT COSTS	Total \$ 2019 - 2024	2019	2020	2021	2022	2023	2024
Management / Administration	20,000					10,000	10,000
Permitting, easements, legal	20,000					10,000	10,000
Engineering	100,000					100,000	
Construction Costs	100,000						100,000
<b>TOTAL COSTS</b>	<b>240,000</b>					<b>120,000</b>	<b>120,000</b>
<b>REQUESTED FUNDING</b>							
Water Fund Reserves	240,000					120,000	120,000
<b>TOTAL SOURCES</b>	<b>240,000</b>					<b>120,000</b>	<b>120,000</b>



Second Intertie with City of Tacoma

**DESCRIPTION**

Design and work with the City of Tacoma for a second intertie in the western portion of the City. Tap the Tacoma Pipeline and install an 8 inch meter, valves, vaults and telemetry system along Lake Sawyer Road.

**BACKGROUND**

As the Ten Trails area continues to grow, additional water transmission capacity will be needed to serve western Black Diamond.

CAPITAL PROJECT COSTS	Total \$ 2019 - 2024	2019	2020	2021	2022	2023	2024
Management / Administration	25,000					15,000	10,000
Permitting, easements, legal	15,000					15,000	
Engineering	100,000					100,000	
Construction Costs	500,000						500,000
<b>TOTAL COSTS</b>	<b>640,000</b>					<b>130,000</b>	<b>510,000</b>
<b>REQUESTED FUNDING</b>							
Developer Funded	640,000					130,000	510,000
<b>TOTAL SOURCES</b>	<b>640,000</b>					<b>130,000</b>	<b>510,000</b>



## SCADA System Improvements

**DESCRIPTION**

The city needs to update the SCADA (Supervisory Control and Data Acquisition) system for the water and sewer system from time to time. This project sets aside funds so that as needs come up the Public Works Operations staff can update software, computers, communication systems or upgrade the Programmable Logic Controller as needed rather than delaying needed improvements for a bigger project to be defined, budgeted, and implemented. This set aside strategy will assist the city with smoothing out the budgeting to the needs and keep the operations more reliable with lower malfunction risks.

**BACKGROUND**

The city's water has a system of pump controllers, computers, software and communications systems that operates, monitors, sends alarms and collects data on our water and sewer system. This project proposes to upgrade components of the overall system as needed going forward. Some years expenses may be minimal but as the funds are rolled over, the city will be able to afford the upgrades with less single year budget impact.

**COMMENTS**

In 2018 the city in partnership with the Master Planned Developer is upgrading the SCADA system to accommodate a new sewer pump station in Ten Trails as well as upgrading the city's existing system that is outdated and no longer supported. The 2018 improvement will bring the city up to date with current technology, hardware and software.

CAPITAL PROJECT COSTS	Total \$ 2019 - 2024	2019	2020	2021	2022	2023	2024
Tech Provider Services	30,000	5,000	5,000	5,000	5,000	5,000	5,000
Equipment and Software	30,000	5,000	5,000	5,000	5,000	5,000	5,000
<b>TOTAL COSTS</b>	<b>60,000</b>	<b>10,000</b>	<b>10,000</b>	<b>10,000</b>	<b>10,000</b>	<b>10,000</b>	<b>10,000</b>
REQUESTED FUNDING							
Water Rates	30,000	5,000	5,000	5,000	5,000	5,000	5,000
Sewer Rates	30,000	5,000	5,000	5,000	5,000	5,000	5,000
<b>TOTAL SOURCES</b>	<b>60,000</b>	<b>10,000</b>	<b>10,000</b>	<b>10,000</b>	<b>10,000</b>	<b>10,000</b>	<b>10,000</b>



## Morgan Street AC Water Main Replacement

**DESCRIPTION**

Replace 2700 feet of old 6 inch asbestos water main from RR Ave to Roberts Drive with an 8 inch water main for the western half and 12 inch water main for the eastern half.

**BACKGROUND**

There is an 8 inch water main to tie connection from Roberts Drive just west off the Library. The water main diverts from Morgan Street to Cemetery Road at Terrace Place.

CAPITAL PROJECT COSTS	Total \$ 2019 - 2024	2019	2020	2021	2022	2023	2024
Management / Administration	20,000					10,000	10,000
Permitting, easements, legal	30,000					20,000	10,000
Engineering	170,000					150,000	20,000
Construction Costs	670,000						670,000
<b>TOTAL COSTS</b>	<b>890,000</b>					<b>180,000</b>	<b>710,000</b>
<b>REQUESTED FUNDING</b>							
Water Fund Reserves	445,000					90,000	355,000
CDBG Grant funding	445,000					90,000	355,000
<b>TOTAL SOURCES</b>	<b>890,000</b>					<b>180,000</b>	<b>710,000</b>





# Water Department

## CAPITAL PROJECT SUMMARY

Summary by Project							
Project Title	Capital Plan 2019 - 2024						
	Total \$ 2019 - 2024	2019	2020	2021	2022	2023	2024
W1 Springs & Transmission Reconstruction WSFFA	4,735,000	2,645,000	2,090,000				
W2 Fire Flow Loop - North Commercial Area	835,000	145,000	690,000				
W3 4.3 MG Tank Repaint	35,000	35,000					
W4 Water Comprehensive Plan Update	98,243	98,243					
W5 Asbestos Morganville S. Water Main Replace	562,200	1,200	104,000	457,000			
W6 Asbestos Morganville N. Water Main Replace	528,000			1,000	99,000	428,000	
W7 .5 MG Tank Water Reservoir Recoat	235,000		20,000	215,000			
W8 Pacific Street Water Line Loop	240,000					120,000	120,000
W9 2nd Intertie with City of Tacoma	640,000					130,000	510,000
W10 SCADA System Improvements	60,000	10,000	10,000	10,000	10,000	10,000	10,000
W11 Morgan St AC Water Main Replacement	890,000					180,000	710,000
<b>TOTAL ESTIMATED COSTS</b>	<b>8,858,443</b>	<b>2,934,443</b>	<b>2,914,000</b>	<b>683,000</b>	<b>109,000</b>	<b>868,000</b>	<b>1,350,000</b>
<b>Funding Sources</b>							
<b>Water Reserves and Rates</b>							
W2 Fire Flow Loop - North Commercial Area	417,500	72,500	345,000				
W3 4.3 MG Tank Repaint	35,000	35,000					
W5 Asbestos Morganville S. Water Main Replace	86,200	1,200	14,000	71,000			
W6 Asbestos Morganville N. Water Main Replace	52,000			1,000	9,000	42,000	
W8 Pacific Street Water Line Loop	240,000					120,000	120,000
W10 SCADA System Improvements	30,000	5,000	5,000	5,000	5,000	5,000	5,000
W11 Morgan St AC Water Main Replacement	445,000					90,000	355,000
<b>Total Water Reserves &amp; Rates</b>	<b>1,305,700</b>	<b>113,700</b>	<b>364,000</b>	<b>77,000</b>	<b>14,000</b>	<b>257,000</b>	<b>480,000</b>
<b>Water System &amp; Facilities Funding Agmt (WSFFA)</b>							
W1 Springs & Transmission Reconstruction WSFFA	4,735,000	2,645,000	2,090,000				
<b>Total WSFFA Funds</b>	<b>4,735,000</b>	<b>2,645,000</b>	<b>2,090,000</b>				
<b>Grant Funding</b>							
W5 Asbestos Morganville S. Water Main Replace	476,000		90,000	386,000			
W6 Asbestos Morganville N. Water Main Replace	476,000				90,000	386,000	
W11 Morgan St AC Water Main Replacement	445,000					90,000	355,000
<b>Total Grant Funding</b>	<b>1,397,000</b>		<b>90,000</b>	<b>386,000</b>	<b>90,000</b>	<b>476,000</b>	<b>355,000</b>
<b>Sewer Rates</b>							
W10 SCADA System Improvements	30,000	5,000	5,000	5,000	5,000	5,000	5,000
<b>Total PWTF Loan</b>	<b>30,000</b>	<b>5,000</b>	<b>5,000</b>	<b>5,000</b>	<b>5,000</b>	<b>5,000</b>	<b>5,000</b>
<b>Loan From Sewer Reserve</b>							
W7 .5 MG Tank Water Reservoir Recoat	235,000		20,000	215,000			
<b>Total PWTF Loan</b>	<b>235,000</b>		<b>20,000</b>	<b>215,000</b>			
<b>Developer Funding</b>							
W2 Fire Flow Loop - North Commercial Area	417,500	72,500	345,000				
W9 2nd Intertie with City of Tacoma	640,000					130,000	510,000
<b>Total Developer Funding</b>	<b>1,057,500</b>	<b>72,500</b>	<b>345,000</b>			<b>130,000</b>	<b>510,000</b>
<b>Carryover Funds</b>							
W4 Water Comprehensive Plan Update	98,243	98,243					
<b>Total PWTF Loan</b>	<b>98,243</b>	<b>98,243</b>					
<b>TOTAL ESTIMATED FUNDING SOURCES</b>	<b>8,858,443</b>	<b>2,934,443</b>	<b>2,914,000</b>	<b>683,000</b>	<b>109,000</b>	<b>868,000</b>	<b>1,350,000</b>
W7 Loan Repay to Sewer Reserves					48,426	48,426	48,426

## Cedarbrook Sewer Main

**DESCRIPTION**

Acquire city easement through the mobile home park, if needed. Rehabilitate or reconstruct the existing sewer main to provide reliable public sewer service to the customers in the north east portion of the city.

**BACKGROUND**

This project is necessary to reduce infiltration and inflow and to eliminate the maintenance problems caused by the settled sections of sewer main.

**COMMENTS**

Portions of the existing sewer main will have to be reconstructed other section might be just repaired. The budget has been increased to reflect the cost of reconstructing portion of the sewer. A 20 year Public Works Trust Fund Loan will generate a debt payment of \$13,853.83 per year at 1%.

CAPITAL PROJECT COSTS	Total \$ 2019 - 2024	2019	2020	2021	2022	2023	2024
Prelim Engineering & Legal	30,000	30,000					
Design Engineering	50,000		50,000				
Construction Costs	235,000		235,000				
Management / Administration	15,000	5,000	10,000				
<b>TOTAL COSTS</b>	<b>330,000</b>	<b>35,000</b>	<b>295,000</b>				
<b>REQUESTED FUNDING</b>							
Public Works Trust Fund Loan	330,000	35,000	295,000				
<b>TOTAL SOURCES</b>	<b>330,000</b>	<b>35,000</b>	<b>295,000</b>				
<b>PWTF Loan Repay</b>							
Sewer Fund	69,270		13,854	13,854	13,854	13,854	13,854
<b>Total Debt under Timeframe</b>	<b>69,270</b>		<b>13,854</b>	<b>13,854</b>	<b>13,854</b>	<b>13,854</b>	<b>13,854</b>



Morganville Force Main Reroute

**DESCRIPTION**

Reroute the flows from the Morgan Street Sewer pump station from pumping to the Jones Lake Pump Station to pump to the new King County western storage facility. The new force main will be about 3500 feet from Morgan Street west along Roberts Drive and northwest along Lake Sawyer Road East.

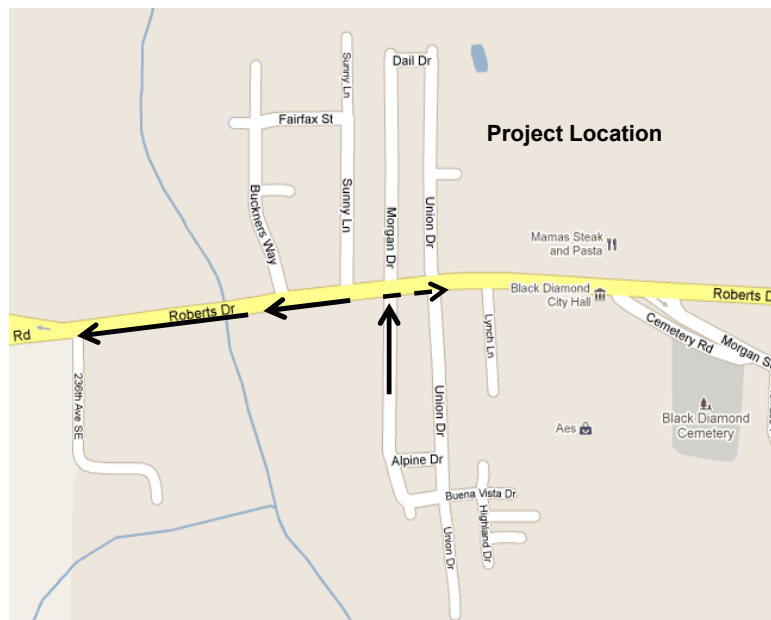
**BACKGROUND**

This project was programmed to provide capacity for infill in the old part of Black Diamond in the Jones Lake Pump station and save energy from pumping sewage twice. The need has diminished because of the King County approval of a regional discharge location in the western part of Black Diamond, and more than adequate trunk line capacity verified in the main trunk line to the Jones Lake Pump Station. The priority of this project will also be affected if Infiltration and Inflow can be reduced further.

**COMMENTS**

Developers may want to assist with funding this project in order to temporarily discharge out of basin flows to the Jones Lake Pump Station.

CAPITAL PROJECT COSTS	Total \$ 2019 - 2024	2019	2020	2021	2022	2023	2024
Preliminary Engineering	20,000			20,000			
Design Engineering	40,000				40,000		
Construction Costs	380,000				380,000		
Management / Administration	20,000				20,000		
<b>TOTAL COSTS</b>	<b>460,000</b>			<b>20,000</b>	<b>440,000</b>		
<b>REQUESTED FUNDING</b>							
Sewer Reserve	20,000			20,000			
PWTF Loan	440,000				440,000		
<b>TOTAL SOURCES</b>	<b>460,000</b>			<b>20,000</b>	<b>440,000</b>		
<b>PWTF Loan Repay</b>							
Begins in 2023	48,800					24,400	24,400
<b>Total Debt under Timeframe</b>	<b>48,800</b>					<b>24,400</b>	<b>24,400</b>



## Diamond Glen Pump Station Decommissioning

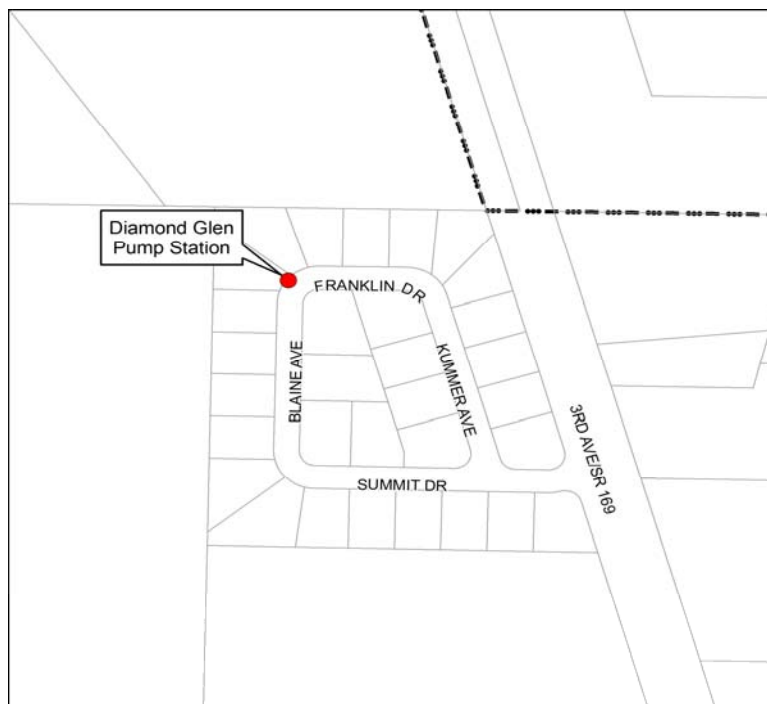
13.12

**DESCRIPTION** Remove pumps and equipment and install gravity sewer main to tie into new sewer mains from Master Planned Development to the west.

**BACKGROUND** Once the development to the west moves forward, the city will have the opportunity to eliminate this small sewer pump station by tying the sewer main in Diamond Glen to gravity sewer mains to the west.

**COMMENTS** This project will save maintenance expense and remove surface facilities in the front yard of two homes.

CAPITAL PROJECT COSTS	Total \$ 2019 - 2024	2019	2020	2021	2022	2023	2024
Design Engineering	10,000					10,000	
Construction Costs	30,000						30,000
Management / Administration	5,000					5,000	
<b>TOTAL COSTS</b>	<b>45,000</b>					<b>15,000</b>	<b>30,000</b>
<b>REQUESTED FUNDING</b>							
Sewer Reserves	45,000					15,000	30,000
<b>TOTAL SOURCES</b>	<b>45,000</b>					<b>15,000</b>	<b>30,000</b>



## Sewer Department CAPITAL PROJECT SUMMARY

Summary By Project		Capital Plan 2019 - 2024					
Project Title	Total \$ 2019 - 2024	2019	2020	2021	2022	2023	2024
S1 Cedarbrook Sewer Main	330,000	35,000	295,000				
S2 Morganville Force Main Reroute	460,000			20,000	440,000		
S3 Diamond Glen Pump Station Decommissioning	45,000					15,000	30,000
<b>TOTAL ESTIMATED COSTS</b>	<b>835,000</b>	<b>35,000</b>	<b>295,000</b>	<b>20,000</b>	<b>440,000</b>	<b>15,000</b>	<b>30,000</b>
<b>Funding Sources</b>							
<b>PWTF Loan Funding</b>							
S1 Cedarbrook Sewer Main	330,000	35,000	295,000				
S2 Morganville Force Main Reroute	440,000				440,000		
<b>Total PWTF Funding</b>	<b>770,000</b>	<b>35,000</b>	<b>295,000</b>		<b>440,000</b>		
<b>Sewer Reserves</b>							
S2 Morganville Force Main Reroute	20,000			20,000			
S3 Diamond Glen Pump Station Decommissioning	45,000					15,000	30,000
<b>Total Sewer Reserves</b>	<b>65,000</b>			<b>20,000</b>		<b>15,000</b>	<b>30,000</b>
<b>TOTAL ESTIMATED FUNDING SOURCES</b>	<b>835,000</b>	<b>35,000</b>	<b>295,000</b>	<b>20,000</b>	<b>440,000</b>	<b>15,000</b>	<b>30,000</b>
<b>DEBT SERVICE</b>							
S1 Cedarbrook Sewer Main	69,270		13,854	13,854	13,854	13,854	13,854
S2 Morganville Force Main Reroute	48,800					24,400	24,400
<b>TOTAL DEBT SERVICE</b>	<b>118,070</b>		<b>13,854</b>	<b>13,854</b>	<b>13,854</b>	<b>38,254</b>	<b>38,254</b>

## North Commercial and SR 169 Stormwater Treatment Pond

13.15

**DESCRIPTION**

Collect storm water runoff from the main commercial area in north Black Diamond and from State Route 169 and route to city property north of the library or combine this stormwater project with the roundabout project at Ravensdale and Roberts Drive.

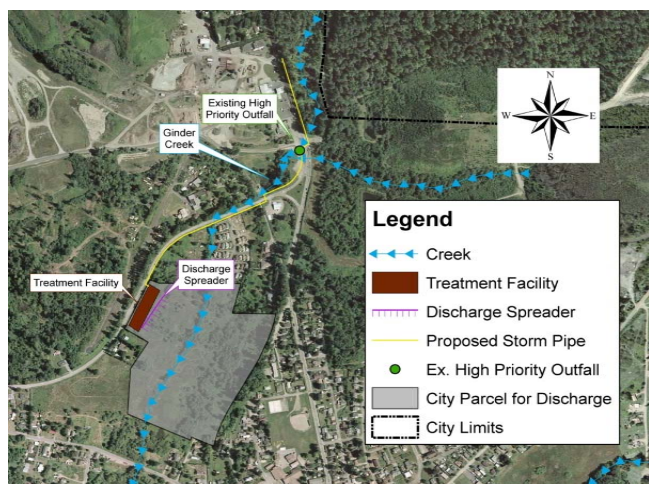
**BACKGROUND**

Whereas there is a total maximum daily load (TMDL) on Lake Sawyer for phosphorous, the city should look for opportunities to reduce phosphorous inputs from existing untreated stormwater discharges. Stormwater outfall discharges from the commercial area and the state route appear to have the highest pollutant loadings as compared to other city stormwater outfalls.

**COMMENTS**

The city has completed a partial design for a treatment facility on city property on Roberts Drive. However it appears that combining this stormwater project with the roundabout project can substantially reduce costs and meet all the goals of the project.

CAPITAL PROJECT COSTS	Total \$ 2019 - 2024	2019	2020	2021	2022	2023	2024
Final Engineering Prepare Bid Docs	60,000	60,000					
Services during Construction	50,000		50,000				
Construction	790,000		790,000				
Management / Administration	20,000	10,000	10,000				
<b>TOTAL COSTS</b>	<b>920,000</b>	<b>70,000</b>	<b>850,000</b>				
<b>REQUESTED FUNDING</b>							
KC Water Quality Improvement Prog	243,643	70,000	173,643				
DOE Grant	676,357		676,357				
Opportunity Funds available if needed							
<b>TOTAL SOURCES</b>	<b>920,000</b>	<b>70,000</b>	<b>850,000</b>				



Ginder Creek Headwall

14.16

**DESCRIPTION**

Reconstruct an 80 foot section of the Ginder Creek Headwall along the north side of Roberts Drive.

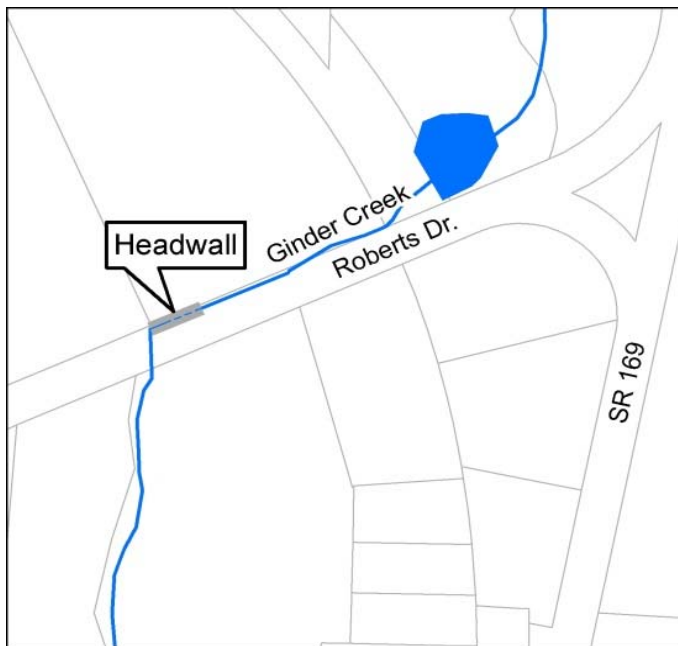
**BACKGROUND**

The base of the existing concrete headwall was not constructed deep enough so that high flows in Ginder Creek have undermined the headwall, destabilizing the wall. The headwall has been slowly tilting into the Creek. Staff has braced the headwall as an interim step to hold the wall in position.

**COMMENTS**

This project is needed to protect the roadway and prevent the erosion that would occur if the headwall tipped over. A significant amount of the cost of this project will be related to environmental permitting. This project may get rolled into a larger street reconstruction project if street grants are obtained for this road segment.

CAPITAL PROJECT COSTS	Total \$ 2019 - 2024	2019	2020	2021	2022	2023	2024
Preliminary Engineer/Permitting	25,000		25,000				
Design Engineering	25,000		25,000				
Construction	90,000			90,000			
Management / Administration	10,000		5,000	5,000			
<b>TOTAL COSTS</b>	<b>150,000</b>		<b>55,000</b>	<b>95,000</b>			
<b>REQUESTED FUNDING</b>							
King County Flood Control Grant	85,000		30,000	55,000			
Grant Matching	65,000		25,000	40,000			
<b>TOTAL SOURCES</b>	<b>150,000</b>		<b>55,000</b>	<b>95,000</b>			



Covington Creek Culverts

**DESCRIPTION**

Reline the three 6 foot diameter culverts to extend the useful life and install headwalls to improve channelization through the culverts.

**BACKGROUND**

The summer 2012 inspections found the culverts are nearing the end of their useful life and have serious corrosion and pitting in the lower third of the culverts and a few areas where corrosion has opened holes in the culvert. The three culverts divide the small summer flow leaving only a small amount of water for fish passage. The city began design on a concrete box culvert but found there were too many conflicts to make that replacement work.

**COMMENTS**

It is highly unlikely that the city would be able to come up with the funding for a bridge alternative (early estimate \$2,000,000). This project refocuses the city's funding to address the impending problem of the deteriorating culverts and improving fish passage.

CAPITAL PROJECT COSTS	Total \$ 2019 - 2024	2019	2020	2021	2022	2023	2024
Design Engineering	93,706	93,706					
Construction	485,473		485,473				
Management / Administration	20,821	8,000	12,821				
<b>TOTAL COSTS</b>	<b>600,000</b>	<b>101,706</b>	<b>498,294</b>				
<b>REQUESTED FUNDING</b>							
Grant Funding	600,000	101,706	498,294				
<b>TOTAL SOURCES</b>	<b>600,000</b>	<b>101,706</b>	<b>498,294</b>				





Basin Study

**DESCRIPTION**

The first part of the study would evaluate the runoff conditions in Black Diamond within the Lake Sawyer basin, with the goals to determine: 1) Could improvement to the weir be made to attenuate storm peak flows and reduce lake flood events; 2)What can be done to improve instream flows in Covington Creek in the fall, 3)What stormwater policies and standards should be implemented to better address the stormwater runoff conditions of east Black Diamond. The second part of the study would be to investigate the costs of implementing outcomes of the first part and how it should be paid for. Additionally, other lake expenses include dock numbering enforcement, aquatic weeds, water quality testing, removal of dangerous floating debris, removal of derelict boats and docks, weir maintenance and buoy maintenance.

**BACKGROUND**

In recent years there are numerous needs and issues related to Lake Sawyer, stormwater and the environment that are unfunded. With better information and a potential funding plan an informed policy decision could be made.

CAPITAL PROJECT COSTS	Total \$ 2019 - 2024	2019	2020	2021	2022	2023	2024
Design Engineering	120,000		60,000	60,000			
<b>TOTAL COSTS</b>	<b>120,000</b>		<b>60,000</b>	<b>60,000</b>			
<b>POTENTIAL FUNDING</b>							
WRIA 9 Salmon mitigation	60,000		30,000	30,000			
Stormwater Connection/Res	60,000		30,000	30,000			
<b>TOTAL SOURCES</b>	<b>120,000</b>		<b>60,000</b>	<b>60,000</b>			



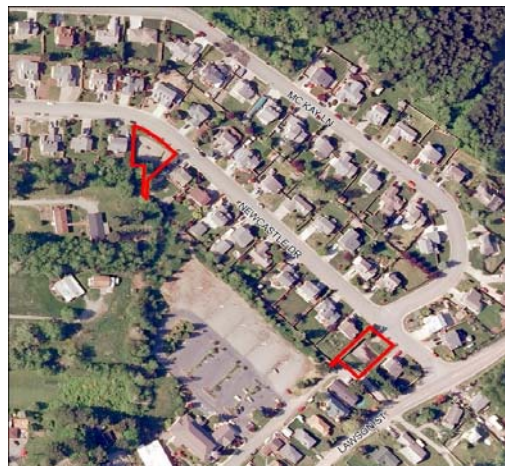
## Lawson Hills Stormwater Ponds

**DESCRIPTION**                      Reconstruct the two stormwater ponds in Lawson Hills estates to eliminate the conflicts of stormwater treatment and detention from recreational use.

**BACKGROUND**                      The original intent of these storm ponds was to provide joint use for homeowner association provided recreation facilities and city provided stormwater detention and treatment facilities. The configuration hasn't worked very well for stormwater or for recreation. The city would like to work with the homeowners association to put the stormwater facilities underground so that the surface of the lots will be well drained and available for year around recreation and open space for the neighborhood.

**COMMENTS**                      This project would make the stormwater system and the surface park easier to maintain for both agencies. Cooperation and funding commitment from the homeowners association will be needed. Stormwater funding is not available.

CAPITAL PROJECT COSTS	Total \$ 2019 - 2024	2019	2020	2021	2022	2023	2024
In House Design/ Mgmt	15,000				15,000		
Construction	120,000				120,000		
Management / Administration	5,000				5,000		
<b>TOTAL COSTS</b>	<b>140,000</b>				<b>140,000</b>		
<b>REQUESTED FUNDING</b>							
Stormwater Rates	140,000				140,000		
<b>TOTAL SOURCES</b>	<b>140,000</b>				<b>140,000</b>		



## Replace Diamond Glen Storm Pond

**DESCRIPTION**

If the new regional stormwater facility is constructed for the North Villages Commercial area, this project diverts stormwater from the Diamond Glen local stormwater pond to the regional stormwater facility.

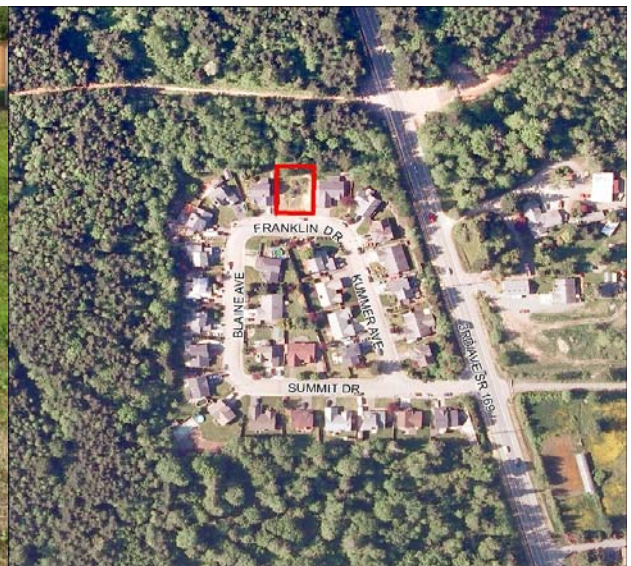
**BACKGROUND**

Many small stormwater facilities increase the city maintenance costs. Providing a commensurate amount of storage and treatment in the larger regional stormwater pond to the west would allow the land to be reclaimed for a residential lot, improve the neighborhood and lower maintenance costs.

**COMMENTS**

Legal and planning issues must be addressed before the city property can be sold.

CAPITAL PROJECT COSTS	Total \$ 2019 - 2024	2019	2020	2021	2022	2023	2024
Pay for offsite pond capacity	15,000					15,000	
Design and Bid	10,000					10,000	
Construction	20,000					20,000	
Management / Administration	5,000					5,000	
Return funds to Operations	30,000					30,000	
<b>TOTAL COSTS</b>	<b>80,000</b>					<b>80,000</b>	
<b>REQUESTED FUNDING</b>							
Sale of Lot	80,000					80,000	
<b>TOTAL SOURCES</b>	<b>80,000</b>					<b>80,000</b>	



## Park Street Stormwater

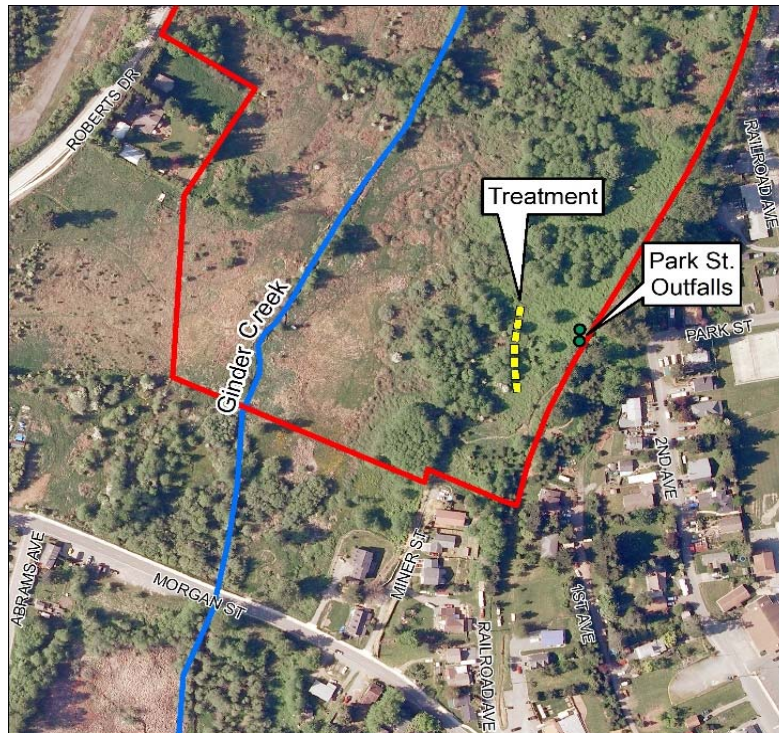
**DESCRIPTION**

Construct a stormwater treatment facility for the stormwater discharge coming off Park Street. This stormwater discharge is the second highest priority to get treated because of the size of the discharge and the pollutants coming off the state route and the old downtown area.

**BACKGROUND**

The city could construct the treatment facility on the Ginder Creek property.

CAPITAL PROJECT COSTS	Total \$ 2019 - 2024	2019	2020	2021	2022	2023	2024
Design Engineering	50,000						50,000
Environmental Permitting	20,000						20,000
Construction	200,000						200,000
Management / Administration	10,000						10,000
<b>TOTAL COSTS</b>	<b>280,000</b>						<b>280,000</b>
REQUESTED FUNDING							
Stormwater Connection/Res	80,000						80,000
KC WWT Clean Water Fund	200,000						200,000
<b>TOTAL SOURCES</b>	<b>280,000</b>						<b>280,000</b>



## Eagle Creek Pond to Park Improvement

**DESCRIPTION**

Convert the stormwater retention pond at the Eagle Creek Sub-Division to a stormwater /park multi-purpose facility. Add a layer of permeable top soil that will not exceed the design infiltration rate of the storm water retention pond and seed to grass. The area and slopes will be seeded to a nice lawn and the fence removed on the south end of the project.

**BACKGROUND**

After the construction of this facility, engineering staff observed that surface water infiltration rates far exceeded the delivery volumes associated with surface run-off generated within the sub-division. Because of this, the pond is dry throughout the year and can provide an excellent grass lawn open space feature to users of the city parks facility. The conversion of a gravel storm infiltration pond to a stormwater/park multi-purpose facility will improve storm water treatment, improve aesthetics, and provide additional recreation space for citizens.

CAPITAL PROJECT COSTS	Total \$ 2019 - 2024	2019	2020	2021	2022	2023	2024
In House Planning & Design	3,000		3,000				
In House Construction Cost	15,000		15,000				
<b>TOTAL COSTS</b>	<b>18,000</b>		<b>18,000</b>				
<b>REQUESTED FUNDING</b>							
Stormwater Grant or Other	18,000		18,000				
<b>TOTAL SOURCES</b>	<b>18,000</b>		<b>18,000</b>				



# Stormwater Department

## CAPITAL PROJECT FUNDING SUMMARY

Summary by Project							
Capital Plan 2019 - 2024							
Project Title	Total \$ 2019 - 2024	2019	2020	2021	2022	2023	2024
D1 N. Commercial St 169 Stormwater Improvements	920,000	70,000	850,000				
D2 Ginder Creek Headwall	150,000		55,000	95,000			
D3 Covington Creek Culverts	600,000	101,706	498,294				
D4 Basin Study	120,000		60,000	60,000			
D5 Lawson Hills Stormwater Ponds Improvement	140,000				140,000		
D6 Diamond Glen Stormwater Pond	80,000					80,000	
D7 Park Street Stormwater	280,000						280,000
D8 Eagle Creek Pond to Park Improvement	18,000		18,000				
<b>TOTAL ESTIMATED EXPENDITURES</b>	<b>2,308,000</b>	<b>171,706</b>	<b>1,481,294</b>	<b>155,000</b>	<b>140,000</b>	<b>80,000</b>	<b>280,000</b>
Funding Sources							
<b>Grants</b>							
D1 N. Commercial St 169 Stormwater Improvements	920,000	70,000	850,000				
D2 Ginder Creek Headwall	85,000		30,000	55,000			
D3 Covington Creek Culverts	600,000	101,706	498,294				
D7 Park Street Stormwater	200,000						200,000
D8 Eagle Creek Pond to Park Improvement	18,000		18,000				
<b>Total Grants</b>	<b>1,823,000</b>	<b>171,706</b>	<b>1,396,294</b>	<b>55,000</b>			<b>200,000</b>
<b>Stormwater Funding</b>							
D4 Basin Study	60,000		30,000	30,000			
D5 Lawson Hills Stormwater Ponds Improvement	140,000				140,000		
D7 Park Street Stormwater	80,000						80,000
<b>Total Stormwater Funding</b>	<b>280,000</b>		<b>30,000</b>	<b>30,000</b>	<b>140,000</b>		<b>80,000</b>
<b>Sale of Land (Stormwater Funds)</b>							
D6 Diamond Glen Stormwater Pond	80,000					80,000	
<b>Total Sale of Land</b>	<b>80,000</b>					<b>80,000</b>	
<b>WIRA 9 Salmon Mitigation Funds</b>							
D4 Basin Study	60,000		30,000	30,000			
<b>Total WIRA 9 Funding</b>	<b>60,000</b>		<b>30,000</b>	<b>30,000</b>			
<b>Grant Matching</b>							
D2 Ginder Creek Headwall	65,000		25,000	40,000			
<b>Total Grant Matching</b>	<b>65,000</b>		<b>25,000</b>	<b>40,000</b>			
<b>TOTAL ESTIMATED FUNDING SOURCES</b>	<b>2,308,000</b>	<b>171,706</b>	<b>1,481,294</b>	<b>155,000</b>	<b>140,000</b>	<b>80,000</b>	<b>280,000</b>

# Cross Departmental PW Projects

All 1

## Public Works Facility Improvements

**DESCRIPTION**

With more equipment, more record keeping needs, growing staff, need for materials handling site, more operations office work, more equipment repair space needs, more dry storage needs and meetings/training room needs, improvements to the Public Works Facilities will be needed.

**BACKGROUND**

This infrastructure need is proposed as a step by step improvement to the PW facilities rather than a major one time improvement. In the past the city has added the equipment wash facility, new doors and dividing wall for better use of the ware house, new roof on the warehouse and the shop and added employee offices and lunch room space.

CAPITAL PROJECT COSTS	Total \$ 2019 - 2024	2019	2020	2021	2022	2023	2024
In House Design & Permitting	30,000	5,000	5,000	5,000	5,000	5,000	5,000
Construction Costs	120,000	20,000	20,000	20,000	20,000	20,000	20,000
<b>TOTAL COSTS</b>	<b>150,000</b>	<b>25,000</b>	<b>25,000</b>	<b>25,000</b>	<b>25,000</b>	<b>25,000</b>	<b>25,000</b>
REQUESTED FUNDING							
Real Estate Excise Tax II	150,000	25,000	25,000	25,000	25,000	25,000	25,000
<b>TOTAL SOURCES</b>	<b>150,000</b>	<b>25,000</b>	<b>25,000</b>	<b>25,000</b>	<b>25,000</b>	<b>25,000</b>	<b>25,000</b>



City of Sammamish



# Cross Departmental PW Projects

All 2

## Equipment Replacement Program

**DESCRIPTION**

Replace and purchase new equipment as needed for the Public Works Department needs, with regular, fairly distributed, expenses to the various departments.

**BACKGROUND**

The current funding level which has been in place for about 10 years appears to be enough to meet the current needs of the department. No adjustments are currently being recommended.

CAPITAL PROJECT COSTS	Total \$ 2019 - 2024	2019	2020	2021	2022	2023	2024
Contribution to Equipment Fund	282,000	47,000	47,000	47,000	47,000	47,000	47,000
<b>TOTAL COSTS</b>	<b>282,000</b>	<b>47,000</b>	<b>47,000</b>	<b>47,000</b>	<b>47,000</b>	<b>47,000</b>	<b>47,000</b>
<b>REQUESTED FUNDING</b>							
Water Department	60,000	10,000	10,000	10,000	10,000	10,000	10,000
Street Department	60,000	10,000	10,000	10,000	10,000	10,000	10,000
Stormwater Department	60,000	10,000	10,000	10,000	10,000	10,000	10,000
Parks, Cemetery, Facilities	42,000	7,000	7,000	7,000	7,000	7,000	7,000
Sewer Funds	60,000	10,000	10,000	10,000	10,000	10,000	10,000
<b>TOTAL SOURCES</b>	<b>282,000</b>	<b>47,000</b>	<b>47,000</b>	<b>47,000</b>	<b>47,000</b>	<b>47,000</b>	<b>47,000</b>

Public Works Equipment Replacement Plan	2019	2020	2021	2022	2023	2024
Mini Trackhoe (JD 35 or equal) & Trailer	130,000					
1/2 Ton Utility Truck 4x4 ('98 Red Silverado)	40,000					
2005 White Dodge 4x4		40,000				
1998 White Ford Dump Truck			50,000			
Backhoe				125,000		
Ferris Zero Turn Mower				12,000		
Shoulder Mower					80,000	
1983 C/R Utility Trailer					5,000	
2005 Chevy 4500 Flatbed Dump Truck						45,000
Street Sweeper						50,000
<b>Totals</b>	<b>\$ 170,000</b>	<b>\$ 40,000</b>	<b>\$ 50,000</b>	<b>\$ 137,000</b>	<b>\$ 85,000</b>	<b>\$ 95,000</b>





## Capital Improvement Program 2019 - 2014

### Equipment Replacement Cash Flow

PWERS

**DESCRIPTION**

The City maintains an equipment replacement schedule for Public Works shared vehicles and equipment.

**BACKGROUND**

Operations equipment is scheduled for replacement when maintenance costs exceed replacement cost or as safety dictates.

	2018	2019	2020	2021	2022	2023	2024
<b>REVENUE</b>							
Beginning Fund Balance	258,647	204,269	81,269	88,269	85,269	4,731	42,731
Cemetery & Parks REET I	7,000	7,000	7,000	7,000	7,000	7,000	7,000
Street Contribution	10,000	10,000	10,000	10,000	10,000	10,000	10,000
Water Contribution	10,000	10,000	10,000	10,000	10,000	10,000	10,000
Sewer Contribution	10,000	10,000	10,000	10,000	10,000	10,000	10,000
Stormwater Contribution	10,000	10,000	10,000	10,000	10,000	10,000	10,000
Revenue Total	47,000	47,000	47,000	47,000	47,000	47,000	47,000
<b>Available Funding</b>	<b>305,647</b>	<b>251,269</b>	<b>128,269</b>	<b>135,269</b>	<b>132,269</b>	<b>42,269</b>	<b>4,269</b>
<b>EXPENDITURES</b>							
Replace John Deere riding mower (zero turn)	15,000						
Replace Ferris zero turn/deck mower (x2)					12,000		
New 1/2 ton utility truck 4x4 (98 Silverado)		40,000					
Sewer Jet Roddr Mtc	20,000						
Backhoe					125,000		
Mini trackhoe & trailer		130,000					
Ford 2000 4 wheel drive (Justin)				50,000			
Shoulder Mower (existing)						80,000	
Cemetery casket lowering device	5,000						
Vacuum Trailer							50,000
2000 Gray Chevy Silverado (Kevin)	40,000						
2005 White Dodge 4x4 (Dan)			40,000				
2005 Chevy 4500 Flatbed Dump Truck							45,000
1983 C/R Trailer						5,000	
Computers & Radio's	21,378						
Totals	101,378	170,000	40,000	50,000	137,000	85,000	95,000
<b>Ending Fund Balance</b>	<b>204,269</b>	<b>81,269</b>	<b>88,269</b>	<b>85,269</b>	<b>4,731</b>	<b>42,731</b>	<b>90,731</b>

# Public Works Cross Departmental Projects

## CAPITAL PROJECT SUMMARY

Summary By Project							
Capital Plan 2019 - 2024							
Project Title	Total \$ 2019 - 2024	2019	2020	2021	2022	2023	2024
A1 Upgrade Utility Staff Facilities	150,000	25,000	25,000	25,000	25,000	25,000	25,000
A2 Equipment Replacement Program	282,000	47,000	47,000	47,000	47,000	47,000	47,000
<b>TOTAL ESTIMATED COSTS</b>	<b>432,000</b>	<b>72,000</b>	<b>72,000</b>	<b>72,000</b>	<b>72,000</b>	<b>72,000</b>	<b>72,000</b>
Funding Sources							
<b>Real Estate Excise Tax</b>							
A1 Real Estate Excise Tax II	150,000	25,000	25,000	25,000	25,000	25,000	25,000
<b>Department Contributions</b>							
A2 Water Department	60,000	10,000	10,000	10,000	10,000	10,000	10,000
A2 Street Department	60,000	10,000	10,000	10,000	10,000	10,000	10,000
A2 Stormwater Department	60,000	10,000	10,000	10,000	10,000	10,000	10,000
A2 Parks, Cemetery, Facilities	42,000	7,000	7,000	7,000	7,000	7,000	7,000
A2 Sewer Funds	60,000	10,000	10,000	10,000	10,000	10,000	10,000
<b>TOTAL ESTIMATED FUNDING SOURCES</b>	<b>432,000</b>	<b>72,000</b>	<b>72,000</b>	<b>72,000</b>	<b>72,000</b>	<b>72,000</b>	<b>72,000</b>

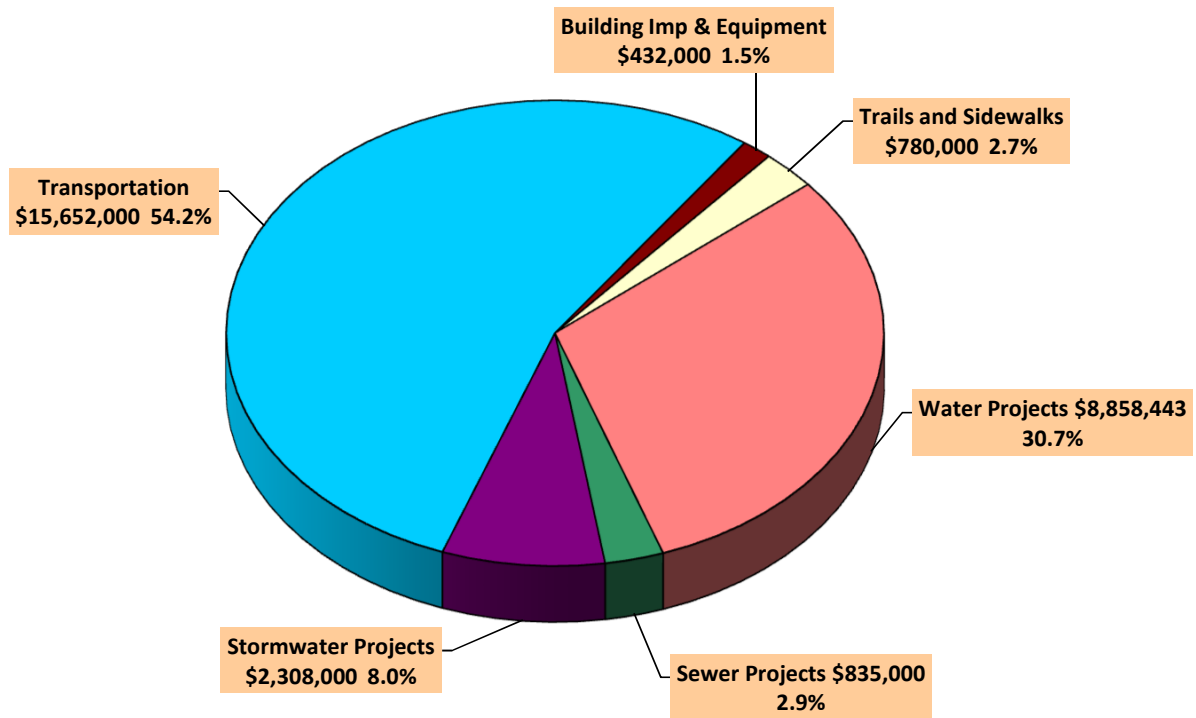
# Public Works Project Areas

## Capital Improvement Plan 2019 - 2024

### EXPENSES

	Total \$ Project 2019 - 2024	2019	2020	2021	2022	2023	2024
<b>CAPITAL PROJECTS</b>							
Transportation	15,652,000	1,365,000	4,402,000	7,745,000	435,000	1,635,000	70,000
Building Imp & Equipment	432,000	72,000	72,000	72,000	72,000	72,000	72,000
Trails and Sidewalks	780,000		200,000	550,000	30,000		
Water Projects	8,858,443	2,934,443	2,914,000	683,000	109,000	868,000	1,350,000
Sewer Projects	835,000	35,000	295,000	20,000	440,000	15,000	30,000
Stormwater Projects	2,308,000	171,706	1,481,294	155,000	140,000	80,000	280,000
<b>TOTAL COSTS</b>	<b>\$28,865,443</b>	<b>\$4,578,149</b>	<b>\$9,364,294</b>	<b>\$9,225,000</b>	<b>\$1,226,000</b>	<b>\$2,670,000</b>	<b>\$1,802,000</b>

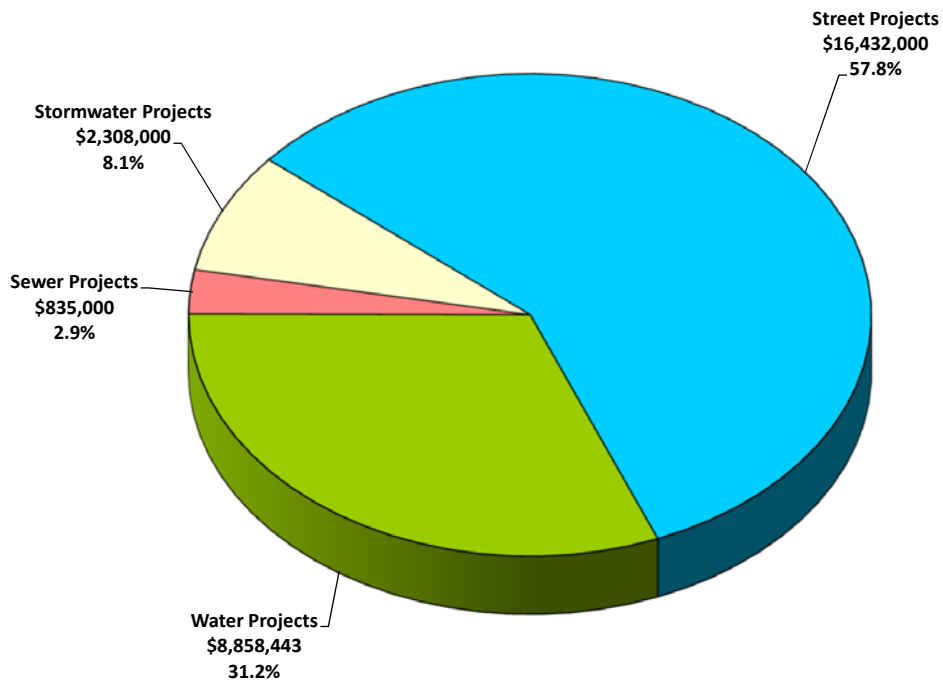
### Public Works Projects Summary



**Public Works Fund Summary**  
**Capital Improvement Plan 2019 - 2024**

Funds	Total \$ Project 2019 - 2024	2019	2020	2021	2022	2023	2024
Street Projects	16,432,000	1,365,000	4,602,000	8,295,000	465,000	1,635,000	70,000
Water Projects	8,858,443	2,934,443	2,914,000	683,000	109,000	868,000	1,350,000
Sewer Projects	835,000	35,000	295,000	20,000	440,000	15,000	30,000
Stormwater Projects	2,308,000	171,706	1,481,294	155,000	140,000	80,000	280,000
All PW Departments	432,000	72,000	72,000	72,000	72,000	72,000	72,000
<b>TOTAL Projected Expenditures</b>	<b>\$ 28,865,443</b>	<b>\$4,578,149</b>	<b>\$9,364,294</b>	<b>\$9,225,000</b>	<b>\$1,226,000</b>	<b>\$2,670,000</b>	<b>\$1,802,000</b>

**Public Works CIP Projects by Fund**  
**Total: \$28,865,443**



## CIP Public Works Summary Capital Improvement Plan 2019 - 2024

		Total \$ Project 2019 - 2024	2019	2020	2021	2022	2023	2024
<b>ALL DEPARTMENT PROJECTS</b>								
A1	Upgrade Utility Staff Facilities	150,000	25,000	25,000	25,000	25,000	25,000	25,000
A2	Equipment Replacement Program	282,000	47,000	47,000	47,000	47,000	47,000	47,000
<b>ALL DEPARTMENT PROJECTS</b>		<b>432,000</b>	<b>72,000</b>	<b>72,000</b>	<b>72,000</b>	<b>72,000</b>	<b>72,000</b>	<b>72,000</b>
<b>STREET PROJECTS</b>								
T1	General Street Improvement	180,000	30,000	30,000	30,000	30,000	30,000	30,000
T2	Grant Matching Project	240,000	40,000	40,000	40,000	40,000	40,000	40,000
T3	Roberts Drive Improvements - 236th to Bruckners	820,000	820,000					
T4	SR 169 Roundabouts	12,000,000	420,000	4,080,000	7,500,000			
T5	Park St. & SR 169 Intersection Safety Improve.	30,000	30,000					
T6	Morgan Creek Seal Coat Preservation	107,000		107,000				
T7	232nd Ave. SE Overlay, SE 288th to SE 293rd	175,000			175,000			
T8	Downtown Public Parking	145,000	25,000	120,000				
T9	SR 169 - James St. to Roberts Dr. Sidewalk	550,000		150,000	400,000			
T10	216th Ave SE Overlay	180,000					180,000	
T11	Morgan Creek Pedestrian Connector	200,000		50,000	150,000			
T12	Roberts Dr. Rehab - Library to SR 169	1,750,000				365,000	1,385,000	
T13	224th Guardrail at Covington Creek	25,000		25,000				
T14	Downtown Pedestrian and Bicycle Link Study	30,000				30,000		
<b>STREET PROJECTS</b>		<b>16,432,000</b>	<b>1,365,000</b>	<b>4,602,000</b>	<b>8,295,000</b>	<b>465,000</b>	<b>1,635,000</b>	<b>70,000</b>
<b>WATER PROJECTS</b>								
W1	Springs & Transmission Reconstruction WSFFA	4,735,000	2,645,000	2,090,000				
W2	Fire Flow Loop - North Commercial Area	835,000	145,000	690,000				
W3	4.3 MG Tank Repaint	35,000	35,000					
W4	Water Comprehensive Plan Update	98,243	98,243					
W5	Asbestos Morganville S. Water Main Replace	562,200	1,200	104,000	457,000			
W6	Asbestos Morganville N. Water Main Replace	528,000			1,000	99,000	428,000	
W7	.5 MG Tank Water Reservoir Recoat	235,000		20,000	215,000			
W8	Pacific Street Water Line Loop	240,000					120,000	120,000
W9	2nd Intertie with City of Tacoma	640,000					130,000	510,000
W10	SCADA System Improvements	60,000	10,000	10,000	10,000	10,000	10,000	10,000
W11	Morgan St AC Water Main Replacement	890,000					180,000	710,000
<b>WATER PROJECTS</b>		<b>8,858,443</b>	<b>2,934,443</b>	<b>2,914,000</b>	<b>683,000</b>	<b>109,000</b>	<b>868,000</b>	<b>1,350,000</b>
<b>SEWER PROJECTS</b>								
S1	Cedarbrook Sewer Main	330,000	35,000	295,000				
S2	Morganville Force Main Reroute	460,000			20,000	440,000		
S3	Diamond Glen Pump Station Decommissioning	45,000					15,000	30,000
<b>SEWER PROJECTS</b>		<b>835,000</b>	<b>35,000</b>	<b>295,000</b>	<b>20,000</b>	<b>440,000</b>	<b>15,000</b>	<b>30,000</b>
<b>STORMWATER PROJECTS</b>								
D1	N. Commercial St 169 Stormwater Improvements	920,000	70,000	850,000				
D2	Ginder Creek Headwall	150,000		55,000	95,000			
D3	Covington Creek Culverts	600,000	101,706	498,294				
D4	Basin Study	120,000		60,000	60,000			
D5	Lawson Hills Stormwater Ponds Improvement	140,000				140,000		
D6	Diamond Glen Stormwater Pond	80,000					80,000	
D7	Park Street Stormwater	280,000						280,000
D8	Eagle Creek Pond to Park Improvement	18,000		18,000				
<b>STORMWATER PROJECTS</b>		<b>2,308,000</b>	<b>171,706</b>	<b>1,481,294</b>	<b>155,000</b>	<b>140,000</b>	<b>80,000</b>	<b>280,000</b>
<b>TOTAL PUBLIC WORKS CAPITAL PROJECTS</b>		<b>28,865,443</b>	<b>4,578,149</b>	<b>9,364,294</b>	<b>9,225,000</b>	<b>1,226,000</b>	<b>2,670,000</b>	<b>1,802,000</b>

## CIP Public Works Summary FUNDING SUMMARY, Cont.

		Total \$ Project 2019 - 2024	2019	2020	2021	2022	2023	2024
<b>REET II Funding</b>								
A1	Facility Upgrades	150,000	25,000	25,000	25,000	25,000	25,000	25,000
T1	General Street Improvement	180,000	30,000	30,000	30,000	30,000	30,000	30,000
T2	Grant Matching	240,000	40,000	40,000	40,000	40,000	40,000	40,000
T3	Roberts Drive Improvements - 236th to Bruckners	100,000	100,000					
T3	Roberts Drive Improvements - 236th to Bruckners	40,000	40,000					
T6	Morgan Creek Seal Coat Preservation	57,000		57,000				
T7	232nd Ave. SE Overlay, SE 288th to SE 293rd (Grant Match)	26,250			26,250			
T8	Downtown Public Parking	37,000	25,000	12,000				
T9	SR 169 - James St. to Roberts Dr. Sidewalk	82,500		22,500	60,000			
T10	216th Ave SE Overlay	27,000					27,000	
T12	Roberts Dr. Rehab - Library to SR 169	262,500				54,750	207,750	
T13	224th Guardrail at Covington Creek	25,000		25,000				
T14	Downtown Pedestrian and Bicycle Link Study	3,000				3,000		
D2	Ginder Creek Headwall (Grant Match)	65,000		25,000	40,000			
<b>Total REET II Funding</b>		<b>1,295,250</b>	<b>260,000</b>	<b>236,500</b>	<b>221,250</b>	<b>152,750</b>	<b>329,750</b>	<b>95,000</b>
<b>Water Reserves and Rates</b>								
A2	Equipment Replacement Program	60,000	10,000	10,000	10,000	10,000	10,000	10,000
W2	Fire Flow Loop - North Commercial Area	417,500	72,500	345,000				
W3	4.3 MG Tank Repaint	35,000	35,000					
W5	Asbestos Morganville S. Water Main Replace	86,200	1,200	14,000	71,000			
W6	Asbestos Morganville N. Water Main Replace	52,000			1,000	9,000	42,000	
W8	Pacific Street Water Line Loop	240,000					120,000	120,000
W10	SCADA System Improvements (Water Rates)	30,000	5,000	5,000	5,000	5,000	5,000	5,000
W11	Morgan St AC Water Main Replacement	445,000					90,000	355,000
<b>Total Water Reserves and Rates</b>		<b>1,365,700</b>	<b>123,700</b>	<b>374,000</b>	<b>87,000</b>	<b>24,000</b>	<b>267,000</b>	<b>490,000</b>
<b>Sewer Reserves and Rates</b>								
A2	Equipment Replacement Program	60,000	10,000	10,000	10,000	10,000	10,000	10,000
S2	Morganville Force Main Reroute	20,000			20,000			
S3	Diamond Glen Pump Station Decommissioning	45,000					15,000	30,000
W10	SCADA System Improvements (Sewer Rates)	30,000	5,000	5,000	5,000	5,000	5,000	5,000
<b>Total Sewer Reserves</b>		<b>155,000</b>	<b>15,000</b>	<b>15,000</b>	<b>35,000</b>	<b>15,000</b>	<b>30,000</b>	<b>45,000</b>
<b>Stormwater Funding</b>								
A2	Equipment Replacement Program	60,000	10,000	10,000	10,000	10,000	10,000	10,000
D4	Basin Study	60,000		30,000	30,000			
D5	Lawson Hills Stormwater Ponds Improvement	140,000				140,000		
D7	Park Street Stormwater	80,000						80,000
<b>Total Stormwater Funding</b>		<b>340,000</b>	<b>10,000</b>	<b>40,000</b>	<b>40,000</b>	<b>150,000</b>	<b>10,000</b>	<b>90,000</b>
<b>Street Funding</b>								
A2	Equipment Replacement Program	60,000	10,000	10,000	10,000	10,000	10,000	10,000
T6	Morgan Creek Seal Coat Preservation	50,000		50,000				
<b>Total Street Funding</b>		<b>110,000</b>	<b>10,000</b>	<b>60,000</b>	<b>10,000</b>	<b>10,000</b>	<b>10,000</b>	<b>10,000</b>
<b>Parks Funding</b>								
A2	Equipment Replacement Program	42,000	7,000	7,000	7,000	7,000	7,000	7,000
<b>Total Parks Funding</b>		<b>42,000</b>	<b>7,000</b>	<b>7,000</b>	<b>7,000</b>	<b>7,000</b>	<b>7,000</b>	<b>7,000</b>

## CIP Public Works Summary FUNDING SUMMARY, Cont.

		Total \$ Project 2019 - 2024	2019	2020	2021	2022	2023	2024
<b>Developer, Impact Fees and/or SEPA</b>								
T3	Roberts Drive Improvements - 236th to Bruckners	80,000	80,000					
T4	SR 169 Roundabouts	11,800,000	420,000	3,880,000	7,500,000			
T5	Park St&SR 169 Intersection Safety Impr (Mitigaton Funds)	30,000	30,000					
T5	Park St. & SR 169 Intersection Safety Improve.	200,000		50,000	150,000			
W2	Fire Flow Loop - North Commercial Area	417,500	72,500	345,000				
W9	2nd Intertie with City of Tacoma	640,000					130,000	510,000
<b>Total Developer, Street Impact and/or SEPA Fees</b>		<b>13,167,500</b>	<b>602,500</b>	<b>4,275,000</b>	<b>7,650,000</b>		<b>130,000</b>	<b>510,000</b>
<b>Grants</b>								
T3	Roberts Drive Improvements (TIB Grant)	600,000	600,000					
T4	SR 169 Roundabouts	200,000		200,000				
T7	232nd Ave. SE Overlay, SE 288th to SE 293rd	148,750			148,750			
T8	Downtown Public Parking	108,000		108,000				
T9	SR 169 - James St. to Roberts Dr. Sidewalk	467,500		127,500	340,000			
T10	216th Ave SE Overlay (TIB Grant)	153,000					153,000	
T12	Roberts Dr. Rehab - Library to SR 169	1,487,500				310,250	1,177,250	
T14	Downtown Pedestrian & Bicycle Link Study (Ped. Grant)	27,000				27,000		
W5	Asbestos Morganville S. Water Main Replace (CDBG)	476,000		90,000	386,000			
W6	Asbestos Morganville N. Water Main Replace (CDBG)	476,000				90,000	386,000	
W11	Morgan St AC Water Main Replacement (CDBG)	445,000					90,000	355,000
D1	N. Commercial St 169 Stormwater Improvements	920,000	70,000	850,000				
D2	Ginder Creek Headwall (KC Flood Control Grant)	85,000		30,000	55,000			
D3	Covington Creek Culverts (Stormwater Grant)	600,000	101,706	498,294				
D4	Basin Study (WIRA 9)	60,000		30,000	30,000			
D7	Park Street Stormwater (KC-WW3)	200,000						200,000
D8	Eagle Creek Pond to Park Improvement (Stormwater Grant)	18,000		18,000				
<b>Total Grants</b>		<b>6,471,750</b>	<b>771,706</b>	<b>1,951,794</b>	<b>959,750</b>	<b>427,250</b>	<b>1,806,250</b>	<b>555,000</b>
<b>Loans</b>								
W7	.5 MG Tank Water Reservoir Recoat (Sewer Reserve Loan)	235,000		20,000	215,000			
S1	Cedarbrook Sewer Main	330,000	35,000	295,000				
S2	Morganville Force Main Reroute	440,000				440,000		
<b>Total Loans</b>		<b>1,005,000</b>	<b>35,000</b>	<b>315,000</b>	<b>215,000</b>	<b>440,000</b>		
<b>Sale of Land</b>								
D6	Diamond Glen Stormwater Pond	80,000					80,000	
<b>Total Sale of Land</b>		<b>80,000</b>					<b>80,000</b>	
<b>Carryover/Beginning Fund Balance</b>								
W4	Water Comprehensive Plan Update	98,243	98,243					
<b>Total Carryover Funds</b>		<b>98,243</b>	<b>98,243</b>					
<b>Water Facilities and Funding Agreement (WSFFA)</b>								
W1	Springs & Transmission Reconstruction WSFFA	4,735,000	2,645,000	2,090,000				
<b>Total WSFFA</b>		<b>4,735,000</b>	<b>2,645,000</b>	<b>2,090,000</b>				
<b>Grand Total Public Works CIP Funding</b>		<b>28,865,443</b>	<b>4,578,149</b>	<b>9,364,294</b>	<b>9,225,000</b>	<b>1,226,000</b>	<b>2,670,000</b>	<b>1,802,000</b>
<b>DEBT SERVICE</b>								
S1	Cedarbrook Sewer Main 20 yr 1% PWTF - (Sewer Res)	69,270		13,854	13,854	13,854	13,854	13,854
S2	Morganville Force Main Reroute 20 yr 1% PWTF (Sewer Res)	48,800					24,400	24,400
W7	.5 MG Tank Water Reservoir Recoat (Sewer Loan to Water)	145,278				48,426	48,426	48,426
<b>TOTAL DEBT SERVICE</b>		<b>263,348</b>		<b>13,854</b>	<b>13,854</b>	<b>62,280</b>	<b>86,680</b>	<b>86,680</b>

## REET II ANALYSIS SUMMARY (Fund 320)

### Capital Improvement Plan 2019 - 2024

REET II - REVENUE							
Capital Improvement Plan 2019 - 2024							
	Est. Ending Balance	2019	2020	2021	2022	2023	2024
<b>Beg Fund Balance 321</b>		139,055	55,105	21,919	34,853	136,792	32,774
<b>REET Revenue (annual)</b>							
1/4 of 1% REET - Existing Property		102,500	108,742	115,267	122,085	129,209	137,838
1/4 of 1% REET - Other new homes and Plats		73,550	94,572	118,917	132,605	96,524	105,061
<b>Subtotal REET II Revenue</b>		<b>176,050</b>	<b>203,314</b>	<b>234,184</b>	<b>254,690</b>	<b>225,732</b>	<b>242,898</b>
<b>TOTAL Avail. Balance for Public Works Projects</b>		<b>315,105</b>	<b>258,419</b>	<b>256,103</b>	<b>289,542</b>	<b>362,524</b>	<b>275,673</b>
REET II - PROJECT EXPENDITURES							
Capital Improvement Plan 2019 - 2024							
		2019	2020	2021	2022	2023	2024
<b>All Departments</b>							
A1 Facility Upgrades		25,000	25,000	25,000	25,000	25,000	25,000
<b>Street Projects</b>							
T1 General Street Improvement		30,000	30,000	30,000	30,000	30,000	30,000
T2 Grant Matching		40,000	40,000	40,000	40,000	40,000	40,000
T3 Roberts Drive Impr - 236th - Bruckners		100,000					
T3 Roberts Drive Impr - 236th - Bruckners Grant Match		40,000					
T6 Morgan Creek Seal Coat Preservation			57,000				
T7 232nd Ave. SE Overlay, SE 288th to SE 293rd				26,250			
T8 Downtown Public Parking		25,000	12,000				
T9 SR 169 - James St. to Roberts Dr. Sidewalk			22,500	60,000			
T10 216th Ave SE Overlay						27,000	
T12 Roberts Dr. Rehab - Library to SR 169					54,750	207,750	
T13 224th Guardrail at Covington Creek			25,000				
T14 Downtown Pedestrian and Bicycle Link Study					3,000		
<b>Stormwater</b>							
D2 Ginder Creek Headwall			25,000	40,000			
<b>Total REET II Projects</b>		<b>260,000</b>	<b>236,500</b>	<b>221,250</b>	<b>152,750</b>	<b>329,750</b>	<b>95,000</b>
<b>REET II left for next year (Ending Balance)</b>	<b>139,055</b>	<b>55,105</b>	<b>21,919</b>	<b>34,853</b>	<b>136,792</b>	<b>32,774</b>	<b>180,673</b>
REET based on Houses sold							
		2019	2020	2021	2022	2023	2024
Existing Property Sales (in 000's)		100 @ \$410	100 @ \$422	100 @ \$435	100 @ \$448	100 @ \$461	100 @ \$475
Other new homes sales (in 000's)		62 @ \$410	82 @ \$422	102 @ \$435	105 @ \$448	75 @ \$461	80 @ \$475



Ginder Creek Trail and Site Restoration

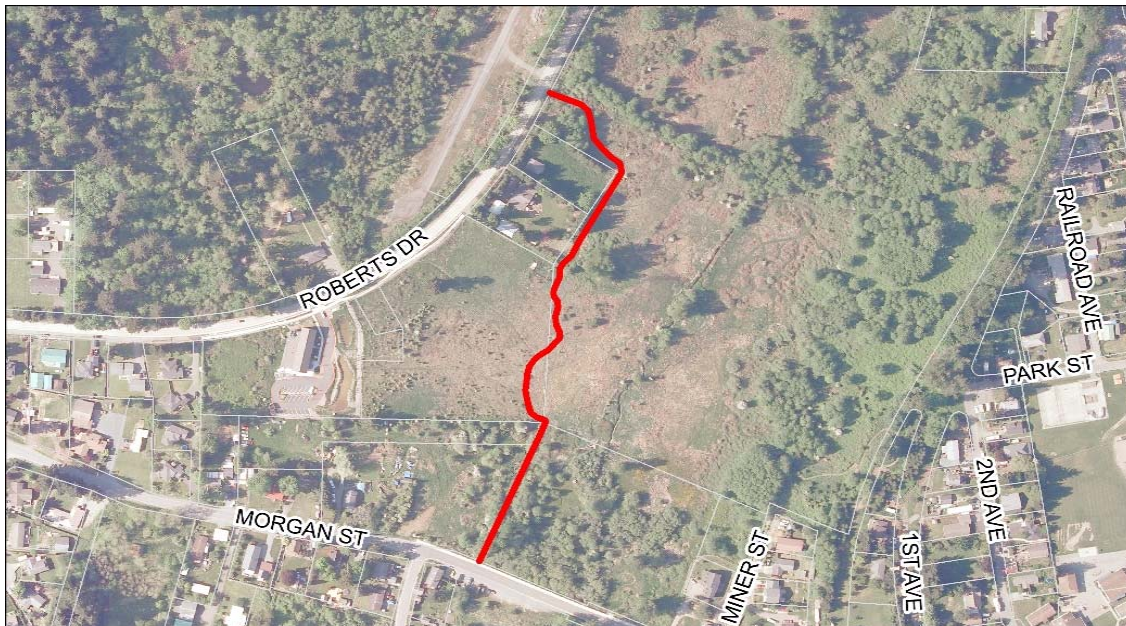
**DESCRIPTION**

Design and construct a 1540 foot long 10 feet wide multi purpose trail and a small parking lot on Roberts Drive.

**BACKGROUND**

The city acquired the Ginder Creek parcel as a component to the Open Space Agreement signed in 2005. Initial planning efforts, work with the City Council, as well as public input has steered the Parks Department towards trail development along the Ginder Creek corridor. This area has historically been used for agricultural activities, but has since remained fallow, with the proliferation of invasive Reed Canary Grass, Evergreen Blackberry, and Scotch Broom. This trail will provide a north/south link from Roberts Drive to Morgan Street and provide the public the enjoyment of the natural area along Ginder Creek.

CAPITAL PROJECT COSTS	Total \$ 2019 - 2024	2019	2020	2021	2022	2023	2024
Property Acquisition	5,000	5,000					
Design and Permitting	15,000	15,000					
Construction Costs	85,000	85,000					
Project Mgmt & Const Inspect.	5,000	5,000					
Project Administration	3,000	3,000					
<b>TOTAL COSTS</b>	<b>113,000</b>	<b>113,000</b>					
<b>REQUESTED FUNDING</b>							
King County Youth Sports Grant	15,000	15,000					
King County Park Fund	98,000	98,000					
<b>TOTAL SOURCES</b>	<b>113,000</b>	<b>113,000</b>					



Grant Matching Funds

**DESCRIPTION**

Funds earmarked for matching grant resources to be utilized in the design and construction of Parks and Natural Resource projects.

CAPITAL PROJECT COSTS	Total \$ 2019 - 2024	2019	2020	2021	2022	2023	2024
<b>COMMENTS</b>							
Grant Matching	25,000	2,500	2,500	5,000	5,000	5,000	5,000
<b>TOTAL COSTS</b>	<b>25,000</b>	<b>2,500</b>	<b>2,500</b>	<b>5,000</b>	<b>5,000</b>	<b>5,000</b>	<b>5,000</b>
<b>REQUESTED FUNDING</b>							
Real Estate Excise Tax I	25,000	2,500	2,500	5,000	5,000	5,000	5,000
<b>TOTAL SOURCES</b>	<b>25,000</b>	<b>2,500</b>	<b>2,500</b>	<b>5,000</b>	<b>5,000</b>	<b>5,000</b>	<b>5,000</b>

**What is a matching grant?**

A matching grant is a contingent grant awarded only if the receiving entity is able to put up (or independently raise) a sum equal to the amount provided by the granting entity.



Parks Comp Plan Update

**DESCRIPTION**

The city's Park Plan has expired. An update of the City's Comprehensive Parks, Recreation and Open Space Plan is needed for state grant eligibility towards trails, open space and park's infrastructure.

**BACKGROUND**

The last Parks Plan was developed by staff in late 2008. The Recreation and Conservation Office approved the plan and the city used the Parks Plan to support several grant applications and improvements throughout the city. Once the staffing level improves this Parks Planning update can be kicked off. It is expected that the city will need consultant assistance for about 50% of the park planning effort.

CAPITAL PROJECT COSTS	Total \$ 2019 - 2024	2019	2020	2021	2022	2023	2024
Consulting Services	40,000		20,000	20,000			
City In-house Services	40,000		20,000	20,000			
<b>TOTAL COSTS</b>	<b>80,000</b>		<b>40,000</b>	<b>40,000</b>			
<b>REQUESTED FUNDING</b>							
Real Estate Excise Tax I	80,000		40,000	40,000			
<b>TOTAL SOURCES</b>	<b>80,000</b>		<b>40,000</b>	<b>40,000</b>			



Boat Launch Park Shoreline Stabilization

**DESCRIPTION**

Using boulder and plantings reinforce the shoreline to stop the bank erosion and protect the old growth trees along the shoreline.

**BACKGROUND**

The city many years ago stabilized the bank with wood retaining walls, rebar and logs. The logs bounced along the shore and only partially protected the bank. The logs were a maintenance problem and periodically broke loose causing a hazard on the lake. The wood retaining wall has deteriorated significantly. The rebar has been an ongoing maintenance problem and hazard.

**COMMENTS**

Once the Park Plan has been accepted by the Recreation Conservation Office this project will be eligible for state grant funding.

CAPITAL PROJECT COSTS	Total \$ 2019 - 2024	2019	2020	2021	2022	2023	2024
Engineering and Permitting	30,000					30,000	
Construction	260,000						260,000
Project Administration/Mgmt	10,000						10,000
<b>TOTAL COSTS</b>	<b>300,000</b>					<b>30,000</b>	<b>270,000</b>
<b>REQUESTED FUNDING</b>							
Real Estate Excise Tax I	150,000					30,000	120,000
RCO Grant	150,000						150,000
<b>TOTAL SOURCES</b>	<b>300,000</b>					<b>30,000</b>	<b>270,000</b>

Shoreline Erosion



Exposed Roots



Rotten Wall



Leaning Tree



New Niche Wall

**DESCRIPTION** Install a niche wall for cremation remains in the cemetery 5 ft. high by about 24 feet long.

**BACKGROUND** The existing niche wall is nearly all sold out. Many people do not want to purchase an entire plot within the cemetery and the niche would serve their needs. The niche wall preserves space within the cemetery. The price of the niches could be reassessed after the final expense of the project is known so that the city could recover their costs. The price of a niche right now is \$350 and the price of a plot is \$1500. The new wall would provide about 90 to 100 new niches.

**COMMENTS** The Cemetery Board reviewed and approved this project and recommended that the Council add this project to the City's Capital Improvement Plan.

CAPITAL PROJECT COSTS	Total \$ 2019 - 2024	2019	2020	2021	2022	2023	2024
Niche Wall Purchase	12,500	12,500					
Niche Wall Installation	12,500	12,500					
<b>TOTAL COSTS</b>	<b>25,000</b>	<b>25,000</b>					
REQUESTED FUNDING							
Carryover Funding	25,000	25,000					
<b>TOTAL SOURCES</b>	<b>25,000</b>	<b>25,000</b>					



Rehabilitate East Ginder Creek Property

**DESCRIPTION**

Remove cottonwood, maple, alder, blackberry, Nott weed, English Ivy along the east boundary of the property and revegetate with grass and Flowering cherry trees, maple, and dogwood. The initial effort will be to fall the trees, and deck the debris in a long pile to compost onsite and to spray invasive weeds and then seed the surrounding area back to grass. The trees should compost nicely within about 5 years. Once the limb have decomposed, the organic matter will be spread and the area reseeded to lawn and trees planted.

**BACKGROUND**

A major portion on the east side of the property has been overtaken by invasive weeds and invasive hazardous trees. The cottonwood trees have grown to a hazardous size and present a threat and hazard to the homes and backyards to the east as citizens walking on city open space.

**COMMENTS**

This project is to fulfill the city's role in good stewardship of the public land.

CAPITAL PROJECT COSTS	Total \$ 2019 - 2024	2019	2020	2021	2022	2023	2024
Tree Felling and Decking	30,000	30,000					
Initial Weed Control	5,000	5,000					
Grading & Tree Planting							
<b>TOTAL COSTS</b>	<b>35,000</b>	<b>35,000</b>					
REQUESTED FUNDING							
Sewer Funding	10,000	10,000					
Street Funds	5,000	5,000					
Real Estate Excise Tax I	20,000	20,000					
<b>TOTAL SOURCES</b>	<b>35,000</b>	<b>35,000</b>					



Rec Center HVAC

**DESCRIPTION** Replace the HVAC system at the rec center.

**BACKGROUND** The HVAC system at the rec center is at the end of its useful life and needs to be replaced.

CAPITAL PROJECT COSTS	Total \$ 2019 - 2024	2019	2020	2021	2022	2023	2024
Purchase and Installation	20,000		20,000				
<b>TOTAL COSTS</b>	<b>20,000</b>		<b>20,000</b>				
<b>REQUESTED FUNDING</b>							
Real Estate Excise Tax I	20,000		20,000				
<b>TOTAL SOURCES</b>	<b>20,000</b>		<b>20,000</b>				



Lake Sawyer Park Boat Launch Pay Station

**DESCRIPTION** Replace the outdated Pay Station at the Lake Sawyer Boat Launch.

**BACKGROUND** The Pay Station at the Lake Sawyer Boat Launch is at the end of its useful life and needs to be replaced.

CAPITAL PROJECT COSTS	Total \$ 2019 - 2024	2019	2020	2021	2022	2023	2024
Purchase and Installation	20,000	20,000					
<b>TOTAL COSTS</b>	<b>20,000</b>	<b>20,000</b>					
<b>REQUESTED FUNDING</b>							
Real Estate Excise Tax I	20,000	20,000					
<b>TOTAL SOURCES</b>	<b>20,000</b>	<b>20,000</b>					





Skate Park Reconstruction

**DESCRIPTION** Replace existing Skate Park facilities with cement facilities to lessen the cost of maintenance and inspections.

**BACKGROUND** The aging skate park requires frequent maintenance on screws and other hardware to keep the skate park safe.

CAPITAL PROJECT COSTS	Total \$ 2019 - 2024	2019	2020	2021	2022	2023	2024
Design Engineering	50,000						50,000
Construction	250,000						250,000
<b>TOTAL COSTS</b>	<b>300,000</b>						<b>300,000</b>
<b>REQUESTED FUNDING</b>							
CDBG Grant	300,000						300,000
<b>TOTAL SOURCES</b>	<b>300,000</b>						<b>300,000</b>



# Parks Department CAPITAL PROJECT SUMMARY

Summary by Project							
Capital Plan 2019 - 2024							
Project Title	Total \$ 2019 - 2024	2019	2020	2021	2022	2023	2024
P1 Ginder Creek Trail and Site Restoration	113,000	113,000					
P2 Grant Matching Funds	25,000	2,500	2,500	5,000	5,000	5,000	5,000
P3 Parks Comp Plan Update	80,000		40,000	40,000			
P4 Boat Launch Park Shoreline Stabilization	300,000					30,000	270,000
P5 New Cemetery Niche Wall	25,000	25,000					
P6 Rehabilitate East Ginder Creek Property	35,000	35,000					
P7 Rec Center HVAC	20,000		20,000				
P8 Boat Launch Pay Station	20,000	20,000					
P9 Skate Park Reconstruction	300,000						300,000
<b>TOTAL ESTIMATED COST</b>	<b>918,000</b>	<b>195,500</b>	<b>62,500</b>	<b>45,000</b>	<b>5,000</b>	<b>35,000</b>	<b>575,000</b>
<b>Funding Sources</b>							
<b>King County Parks Property Tax Levy Funds</b>							
P1 Ginder Creek Trail and Site Restoration	15,000	15,000					
<b>Total King County Parks Levy Fund</b>	<b>15,000</b>	<b>15,000</b>					
<b>King County Conservation District Grant</b>							
P1 Ginder Creek Trail and Site Restoration	98,000	98,000					
<b>Total KCD Grant</b>	<b>98,000</b>	<b>98,000</b>					
<b>WA Recreation and Conservation Grants</b>							
P4 Boat Launch Park Shoreline Stabilization	150,000						150,000
<b>Total RCO Grants</b>	<b>150,000</b>						<b>150,000</b>
<b>CDBG Grant</b>							
P9 Skate Park Reconstruction	300,000						300,000
<b>Total CDBG Grant</b>	<b>300,000</b>						<b>300,000</b>
<b>Real Estate Excise Tax I</b>							
P2 Grant Matching Funds	25,000	2,500	2,500	5,000	5,000	5,000	5,000
P3 Parks Comp Plan Update	80,000		40,000	40,000			
P4 Boat Launch Park Shoreline Stabilization	150,000					30,000	120,000
P6 Rehabilitate East Ginder Creek Property	20,000	20,000					
P7 Rec Center HVAC	20,000		20,000				
P8 Boat Launch Pay Station	20,000	20,000					
<b>Total REET I Funding</b>	<b>315,000</b>	<b>42,500</b>	<b>62,500</b>	<b>45,000</b>	<b>5,000</b>	<b>35,000</b>	<b>125,000</b>
<b>Sewer Funds</b>							
P6 Rehabilitate East Ginder Creek Property	10,000	10,000					
<b>Total Sewer Fund Funding</b>	<b>10,000</b>	<b>10,000</b>					
<b>Street Funds</b>							
P6 Rehabilitate East Ginder Creek Property	5,000	5,000					
<b>Total Street Fund Funding</b>	<b>5,000</b>	<b>5,000</b>					
<b>Carryover Funds/Beginning Fund Balance</b>							
P5 New Cemetery Niche Wall	25,000	25,000					
<b>Total Rollover Funds</b>	<b>25,000</b>	<b>25,000</b>					
<b>TOTAL ESTIMATED FUNDING SOURCES</b>	<b>918,000</b>	<b>195,500</b>	<b>62,500</b>	<b>45,000</b>	<b>5,000</b>	<b>35,000</b>	<b>575,000</b>

Replace Reserve Engine (1986)

**DESCRIPTION** Replace reserve engine # 981 and extend the service life of front-line engine.

**BACKGROUND** Engine 981 is a Pierce brand engine custom built for Kent Fire in 1986. The city later purchased this engine used. It has more than 155,000 miles on the odometer and 12,000 hours in use.

**COMMENTS** Replacement of the Fire Engine and Station will utilize REET at 16.27% and Fire Impact Fees of 83.73%.

CAPITAL PROJECT COSTS	Total \$ 2019-2024	2019	2020	2021	2022	2023	2024
Replace 1986 Reserve Engine	600,000	600,000					
<b>TOTAL COSTS</b>	<b>600,000</b>	<b>600,000</b>					
<b>REQUESTED FUNDING</b>							
Real Estate Excise Tax I	12,620	12,620					
Fire Impact Fees	502,380	502,380					
Carryover Funds	85,000	85,000					
<b>TOTAL SOURCES</b>	<b>600,000</b>	<b>600,000</b>					



Engine #981

Replace SCBA and Defibrillator

**DESCRIPTION**

Firefighter breathing apparatus (SCBA) becomes unserviceable due to age and parts availability. Factory maintenance for Medtronic Lifepak 12 defibrillators is no longer available beginning in 2020.

**BACKGROUND**

Self Contained Breathing Apparatus is required for firefighters to enter hazardous atmospheres. Replace 20 SCBA purchased new in 2001 And updated in 2007 by Mountain View Fire and Rescue. Cost projection is \$11,100 per unit including the required spare air bottle.

**COMMENTS**

Manufacturers support for Lifepak12 defibrillators will end in 2019. The city will utilize REET at 16.27% and Fire Impact Fees of 83.73%.

CAPITAL PROJECT COSTS	Total \$ 2019-2024	2019	2020	2021	2022	2023	2024
Replace 20 SCBA	222,000		222,000				
Replace 4 Lifepak 12 Defibs	50,000		50,000				
<b>TOTAL COSTS</b>	<b>272,000</b>		<b>272,000</b>				
REQUESTED FUNDING							
Real Estate Excise Tax I	44,254		44,254				
Impact Fees	227,746		227,746				
<b>TOTAL SOURCES</b>	<b>272,000</b>		<b>272,000</b>				



Replace Primary Fire Engine (2000)

**DESCRIPTION**

This project replaces the newest engine in the fleet with a customized pumper.

**BACKGROUND**

This vehicle experienced a major mechanical malfunction during 2010 annual service testing. Replacing the former reserve apparatus extended the useful life of this apparatus by placing it in a reserve status.

**COMMENTS**

The service history of this apparatus suggests early replacement is necessary. Replacement of the Fire Engine will utilize REET at 16.27% and Fire Impact Fees of 83.73%.

CAPITAL PROJECT COSTS	Total \$ 2019-2024	2019	2020	2021	2022	2023	2024
Replace 2000 Primary Fire Engine	650,000			50,000	600,000		
<b>TOTAL COSTS</b>	<b>650,000</b>			<b>50,000</b>	<b>600,000</b>		
<b>REQUESTED FUNDING</b>							
Real Estate Excise Tax I	105,755			50,000	55,755		
Impact Fees	544,245				544,245		
<b>TOTAL SOURCES</b>	<b>650,000</b>			<b>50,000</b>	<b>600,000</b>		



Fire Engine 98

# Fire Department

F4

## Replace Aid Car (1994)

**DESCRIPTION**

Replace Aid 98 to provide reliable patient transport capability.

**BACKGROUND**

Aid 98 is a 1994 Ford purchased by city surplus from King County Medic One. This vehicle shows over 143,160 miles. This is the only aid car owned by the city and maintenance costs are expected to increase with age in continued front-line use. Replacement of the Aid Car will utilize REET at 16.27% and Fire Impact Fees of 83.73%.

CAPITAL PROJECT COSTS	Total \$ 2019-2024	2019	2020	2021	2022	2023	2024
Replace 1994 Aid Car	225,000					225,000	
<b>TOTAL COSTS</b>	<b>225,000</b>					<b>225,000</b>	
<b>REQUESTED FUNDING</b>							
Real Estate Excise Tax I	20,500					20,500	
Fire Impact Fees	204,500					204,500	
<b>TOTAL SOURCES</b>	<b>225,000</b>					<b>225,000</b>	



Lawson Hills Fire Station, Vehicles & Equipment

**DESCRIPTION**

Provide a satellite fire station sited and equipped to enhance fire and emergency medical service delivery in the community. This initiative begins with a site location study, proceeds to construct the station, and ends with a complement of essential equipment in service at the new facility.

**BACKGROUND**

Service needs within the community will change with growth. This project seeks to determine the optimal location, build approximately 8,000 square feet of fire station at \$800 per square foot within the next six years at a cost of approximately \$7,437,276 including equipment. Additional growth related equipment of a Fire Pumper, Aid Car, Brush Truck, & Support Vehicle are included in the estimate. Minimal land costs are also projected in this request.

**COMMENTS**

Financing for this project will be financed by growth, with 95% developer responsibility and 5% from Fire Impact Fees.

CAPITAL PROJECT COSTS	Total \$ 2019-2024	2019	2020	2021	2022	2023	2024
Preliminary Engineering	85,000					85,000	
Construction Engineering	70,000						70,000
Design Engineering	120,000					50,000	70,000
Construction of Bldg & Equipment	7,162,276						7,162,276
Purchase of Land	200,000			200,000			
<b>TOTAL COSTS</b>	<b>7,637,276</b>			<b>200,000</b>		<b>135,000</b>	<b>7,302,276</b>
REQUESTED FUNDING							
Fire Impact Fees	381,864			10,000		6,750	365,114
Developer Contribution	7,255,412			190,000		128,250	6,937,162
<b>TOTAL SOURCES</b>	<b>7,637,276</b>			<b>200,000</b>		<b>135,000</b>	<b>7,302,276</b>

Estimated Maintenance and Operations of the new fire station to be approximately \$30,000 annually.



Fire Station 96

# Fire Department CAPITAL PROJECT SUMMARY

Expenditures							
Capital Plan 2019 - 2024							
Project Title	Total \$ 2019-2024	2019	2020	2021	2022	2023	2024
F1 Replace Reserve Engine 98	600,000	600,000					
F2 Replace SCBA and Lifepak 12s	272,000		272,000				
F3 Replace 2000 Primary Fire Engine	650,000			50,000	600,000		
F4 Replace Aid Car	225,000					225,000	
F5 Lawson Hills Fire Station & Equipment	7,637,276			200,000		135,000	7,302,276
<b>TOTAL ESTIMATED COSTS</b>	<b>9,384,276</b>	<b>600,000</b>	<b>272,000</b>	<b>250,000</b>	<b>600,000</b>	<b>360,000</b>	<b>7,302,276</b>
Funding Sources							
Funding from Real Estate Excise Tax I							
F1 Replace Reserve Engine 98	12,620	12,620					
F2 Replace SCBA and Lifepak 12s	44,254		44,254				
F3 Replace 2000 Primary Fire Engine	105,755			50,000	55,755		
F4 Replace Aid Car	20,500					20,500	
<b>Total Real Estate Excise Tax I</b>	<b>183,129</b>	<b>12,620</b>	<b>44,254</b>	<b>50,000</b>	<b>55,755</b>	<b>20,500</b>	
Funding From Impact Fees							
F1 Replace Reserve Engine 98	502,380	502,380					
F2 Replace SCBA and Defibrillator	227,746		227,746				
F3 Replace 2000 Primary Fire Engine	544,245				544,245		
F4 Replace Aid Car	204,500					204,500	
F5 Lawson Hills Fire Station & Equipment	381,864			10,000		6,750	365,114
<b>Total Fire Impact Fees</b>	<b>1,860,735</b>	<b>502,380</b>	<b>227,746</b>	<b>10,000</b>	<b>544,245</b>	<b>211,250</b>	<b>365,114</b>
Developer Contribution							
F5 Lawson Hills Fire Station & Equipment	7,255,412			190,000		128,250	6,937,162
<b>Total Developer Contribution</b>	<b>7,255,412</b>			<b>190,000</b>		<b>128,250</b>	<b>6,937,162</b>
Carryover Funds							
F1 Replace Reserve Engine 98	85,000	85,000					
<b>Total Carryover Funds</b>	<b>85,000</b>	<b>85,000</b>					
<b>TOTAL ESTIMATED FUNDING SOURCES</b>	<b>9,384,276</b>	<b>600,000</b>	<b>272,000</b>	<b>250,000</b>	<b>600,000</b>	<b>360,000</b>	<b>7,302,276</b>



Patrol Car Replacement Plan

**DESCRIPTION**

The City has created and maintained a vehicle replacement plan with planned expenditures for patrol cars in an effort to replace aging patrol cars before becoming too expensive to maintain and to assure officer safety.

**BACKGROUND**

This rotation plan will allow the force to spend more time on the street and less time delivering them for repairs and maintenance.

CAPITAL PROJECT COSTS	Total \$ 2019 -2024	2019	2020	2021	2022	2023	2024
Capital Outlay	410,000	55,000	60,000	65,000	70,000	75,000	85,000
<b>TOTAL COSTS</b>	<b>410,000</b>	<b>55,000</b>	<b>60,000</b>	<b>65,000</b>	<b>70,000</b>	<b>75,000</b>	<b>85,000</b>
<b>REQUESTED FUNDING</b>							
Real Estate Excise Tax I	410,000	55,000	60,000	65,000	70,000	75,000	85,000
<b>TOTAL SOURCES</b>	<b>410,000</b>	<b>55,000</b>	<b>60,000</b>	<b>65,000</b>	<b>70,000</b>	<b>75,000</b>	<b>85,000</b>



## Police Vehicle Replacement Schedule

Vehicle #	YEAR	MODEL	Years in Service	Mileage as of January 2018	Yearly Mileage Est	2019	2020	2021	2022	2023	2024
1	2017	Ford F-150	1	3,307	7,000	10,307	17,307	24,307	31,307	38,307	45,307
23	2007	Dodge Charger	11	100,600	8,500	100,600	109,100	117,600	126,100	Replace	8,500
2	2017	Ford Explorer	1	4,192	10,000	14,192	24,192	34,192	44,192	54,192	68,384
3	2017	Ford Explorer	1	3,976	10,000	13,976	23,976	33,976	43,976	53,976	63,976
30	2012	Chev. Tahoe	6	80,119	13,500	93,619	107,119	120,619	Replace	13,500	27,000
4	2017	Ford Explorer	1	8,811	10,000	18,811	28,811	38,811	48,811	58,811	68,811
29	2011	Chev Tahoe	7	104,000	11,000	104,000	Replace	11,000	22,000	33,000	44,000
24	2008	Dodge Charger	10	82,000	13,000	95,000	108,000	Replace	13,000	26,000	39,000
27	2009	Dodge Charger	9	130,000	13,000	Replace	13,000	26,000	39,000	52,000	65,000
		Add to Fleet									New



Police Radio Replacement

**DESCRIPTION**

Portable Radio Replacements to replace 20 year old radios with the 750 MegaHertz update requirement. King County voters passed a radio replacement levy that may not be ready until 2019.

CAPITAL PROJECT COSTS	Total \$ 2019 -2024	2019	2020	2021	2022	2023	2024
Portable Radio-Replacements	18,640	9,320	9,320				
<b>TOTAL COSTS</b>	<b>18,640</b>	<b>9,320</b>	<b>9,320</b>				
Total Units Replaced	4	2	2				
<b>REQUESTED FUNDING</b>							
Beginning Fund Balance	18,640	9,320	9,320				
<b>TOTAL SOURCES</b>	<b>18,640</b>	<b>9,320</b>	<b>9,320</b>				



# Police Department

## CAPITAL PROJECT SUMMARY

Expenditures							
		Capital Plan 2019 - 2024					
CAPITAL PROJECT COSTS	Total \$ Requested 2019-2024	2019	2020	2021	2022	2023	2024
L1 Patrol Car Replacement	410,000	55,000	60,000	65,000	70,000	75,000	85,000
L2 Radio Replacement	18,640	9,320	9,320				
<b>TOTAL ESTIMATED COSTS</b>	<b>428,640</b>	<b>64,320</b>	<b>69,320</b>	<b>65,000</b>	<b>70,000</b>	<b>75,000</b>	<b>85,000</b>
Funding Sources							
L1 Real Estate Excise Tax I	410,000	55,000	60,000	65,000	70,000	75,000	85,000
L2 Beginning Fund Balance	18,640	9,320	9,320				
<b>TOTAL ESTIMATED FUNDING SOURCES</b>	<b>428,640</b>	<b>64,320</b>	<b>69,320</b>	<b>65,000</b>	<b>70,000</b>	<b>75,000</b>	<b>85,000</b>

City Technology

**DESCRIPTION**

Variety of technology upgrades to the city including PC purchases, software purchases, network upgrades hard and software and printers.

**BACKGROUND**

This project is for PC replacements and other capital technology for the city. This includes servers, network and network software, disaster software and other technology.

CAPITAL PROJECT COSTS	Total \$ 2019 -2024	2019	2020	2021	2022	2023	2024
PC, Printers, Software	271,750	44,500	60,500	66,000	57,250	16,500	27,000
Network Hardware, Software, Audio & Recovery, Security	123,250	23,500	14,500	5,000	11,750	53,500	15,000
New Phone System	16,000	15,000			1,000		
<b>TOTAL COSTS</b>	<b>411,000</b>	<b>83,000</b>	<b>75,000</b>	<b>71,000</b>	<b>70,000</b>	<b>70,000</b>	<b>42,000</b>
<b>REQUESTED FUNDING</b>							
Real Estate Excise Tax I	392,000	70,000	70,000	70,000	70,000	70,000	42,000
Carryover Funds	19,000	13,000	5,000	1,000			
<b>TOTAL SOURCES</b>	<b>411,000</b>	<b>83,000</b>	<b>75,000</b>	<b>71,000</b>	<b>70,000</b>	<b>70,000</b>	<b>42,000</b>



# Technology

	2018	2019	2020	2021	2022	2023	2024
<b>Phone Project</b>							
Phone System	\$0	\$5,000	\$0	\$0	\$0	\$0	\$0
Internet Upgrades	\$0	\$5,000	\$0	\$0	\$1,000	\$0	\$0
Fiber Wiring upgrades	\$0	\$5,000	\$0	\$0	\$0	\$0	\$0
<b>PC Hardware</b>							
Desktop Replacements	\$0	\$0	\$0	\$0	\$25,000	\$0	\$0
Laptop / Surface Replacements	\$0	\$0	\$0	\$0	\$10,000	\$0	\$0
Tablet Replacements	\$1,000	\$0	\$0	\$0	\$5,000	\$0	\$0
Police Laptops Qty 11	\$0	\$0	\$0	\$45,000	\$0	\$0	\$0
Printers	\$500	\$2,000	\$500	\$500	\$500	\$500	\$2,000
Monitors	\$500	\$500	\$500	\$500	\$500	\$500	\$500
Incidentals	\$0	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000
New Staff	\$0	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000
<b>PC Software</b>							
Blue Beam CD Software	\$0	\$2,500	\$0	\$0	\$0	\$1,000	\$0
Anti-virus/SPAM	\$0	\$3,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000
NetMotion / Duo	\$0	\$250	\$250	\$250	\$250	\$250	\$250
GIS	\$0	\$3,000	\$0	\$0	\$1,500	\$0	\$0
Vision	\$0	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000
Document Management	\$0	\$0	\$45,000	\$5,000	\$0	\$0	\$0
Agenda Management	\$0	\$10,000	\$0	\$0	\$0	\$0	\$0
Windows Enterprise Upgrade	\$0	\$10,000	\$0	\$0	\$0	\$0	\$0
Incidentals / New Staff	\$0	\$500	\$500	\$500	\$500	\$500	\$500
<b>Network Hardware</b>							
Switch Replacement	\$0	\$0	\$0	\$0	\$4,000	\$0	\$0
UPS / Batt Replacement	\$0	\$250	\$250	\$250	\$5,000	\$250	\$250
Incidentals / New Staff	\$500	\$500	\$500	\$500	\$500	\$500	\$500
<b>Security</b>							
Firewalls	\$0	\$0	\$10,000	\$0	\$0	\$10,000	\$0
MDM Mobil Device Software	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Monitoring Software Project	\$0	\$0	\$0	\$3,500	\$0	\$0	\$0
Encryption Software	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Cameras	\$10,000	\$0	\$500	\$0	\$500	\$0	\$500
<b>Server Hardware</b>							
Server Replacements	\$0	\$0	\$0	\$0	\$1,000	\$20,000	\$20,000
Backup Server Upgrades		\$5,000	\$0	\$0	\$0	\$5,000	\$0
Server Redundancy	\$0	\$0	\$0	\$0	\$0	\$10,000	\$0
Incidentals	\$0	\$500	\$500	\$500	\$500	\$500	\$500
<b>Server Software</b>							
Windows Server licenses	\$0	\$6,000	\$0	\$0	\$0	\$0	\$0
Audit Report Software	\$0	\$0	\$2,500	\$0	\$0	\$0	\$0
<b>Disaster Recovery</b>							
Archiving Project	\$0	\$10,000	\$0	\$0	\$0	\$0	\$0
Continuity Project	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Local Backups	\$0	\$250	\$250	\$250	\$250	\$250	\$250
Off Site Backups	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Other</b>							
Video / Audio	\$0	\$1,000	\$0	\$0	\$0	\$0	\$3,000
FTR Recording HW / SW	\$0	\$0	\$0	\$0	\$0	\$7,000	\$0
<b>CIP</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>
Totals	\$12,500	\$83,250	\$75,250	\$70,750	\$70,000	\$70,250	\$42,250
<b>Rounded Total</b>	<b>\$13,000</b>	<b>\$83,000</b>	<b>\$75,000</b>	<b>\$71,000</b>	<b>\$70,000</b>	<b>\$70,000</b>	<b>\$42,000</b>

General Facility Improvements

**DESCRIPTION**

The city is in need of upgrades of building improvements and new desk furniture.

CAPITAL PROJECT COSTS	Total \$ 2019 -2024	2019	2020	2021	2022	2023	2024
Purchase	35,000	10,000	5,000	5,000	5,000	5,000	5,000
<b>TOTAL COSTS</b>	<b>35,000</b>	<b>10,000</b>	<b>5,000</b>	<b>5,000</b>	<b>5,000</b>	<b>5,000</b>	<b>5,000</b>
<b>REQUESTED FUNDING</b>							
Real Estate Excise Tax I	35,000	10,000	5,000	5,000	5,000	5,000	5,000
<b>TOTAL SOURCES</b>	<b>35,000</b>	<b>10,000</b>	<b>5,000</b>	<b>5,000</b>	<b>5,000</b>	<b>5,000</b>	<b>5,000</b>



Gym / Way Finding Signs

**DESCRIPTION**

Signage is needed for the Gym, as well as for wayfinding in the city.

CAPITAL PROJECT COSTS	Total \$ 2019 -2024	2019	2020	2021	2022	2023	2024
Gym Sign and Installation	5,000		5,000				
Wayfinding Signs and Installation	12,000		12,000				
<b>TOTAL COSTS</b>	<b>17,000</b>		<b>17,000</b>				
<b>REQUESTED FUNDING</b>							
Seattle Port Alliance Grant	6,000		6,000				
Real Estate Excise Tax I	11,000		11,000				
<b>TOTAL SOURCES</b>	<b>17,000</b>		<b>17,000</b>				





# Administration General Government Projects

## CAPITAL PROJECT SUMMARY

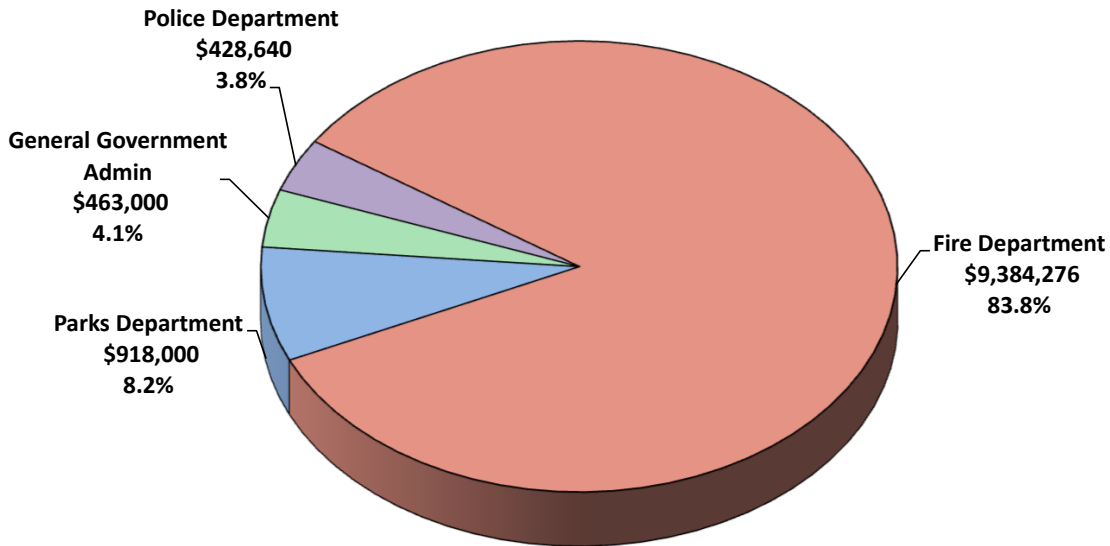
Summary by Project							
Capital Plan 2019 - 2024							
Project Title	Total \$ 2019 -2024	2019	2020	2021	2022	2023	2024
G1 City Technology Upgrades	411,000	83,000	75,000	71,000	70,000	70,000	42,000
G2 General Facility Improvements	35,000	10,000	5,000	5,000	5,000	5,000	5,000
G3 Gym / Wayfinding Signs	17,000		17,000				
<b>TOTAL ESTIMATED COSTS</b>	<b>463,000</b>	<b>93,000</b>	<b>97,000</b>	<b>76,000</b>	<b>75,000</b>	<b>75,000</b>	<b>47,000</b>
Funding Sources							
<b>Real Estate Excise Tax I</b>							
G1 City Technology Upgrades	392,000	70,000	70,000	70,000	70,000	70,000	42,000
G2 General Facility Improvements	35,000	10,000	5,000	5,000	5,000	5,000	5,000
G3 Gym / Wayfinding Signs	11,000		11,000				
<b>Total REET I</b>	<b>438,000</b>	<b>80,000</b>	<b>86,000</b>	<b>75,000</b>	<b>75,000</b>	<b>75,000</b>	<b>47,000</b>
<b>Grant Funding</b>							
G3 Gym / Wayfinding Signs	6,000		6,000				
<b>Total Grants</b>	<b>6,000</b>		<b>6,000</b>				
<b>Carryover Funds</b>							
A1 City Technology	19,000	13,000	5,000	1,000			
	<b>19,000</b>	<b>13,000</b>	<b>5,000</b>	<b>1,000</b>			
<b>TOTAL ESTIMATED FUNDING SOURCES</b>	<b>463,000</b>	<b>80,000</b>	<b>92,000</b>	<b>75,000</b>	<b>75,000</b>	<b>75,000</b>	<b>47,000</b>

# General Government Department Summary

## Capital Improvement Plan 2019 - 2024

	Total \$ Project 2019 - 2024	2019	2020	2021	2022	2023	2024
Parks Department	918,000	195,500	62,500	45,000	5,000	35,000	575,000
Fire Department	9,384,276	600,000	272,000	250,000	600,000	360,000	7,302,276
Police Department	428,640	64,320	69,320	65,000	70,000	75,000	85,000
General Government - Admin	463,000	93,000	97,000	76,000	75,000	75,000	47,000
<b>TOTAL Projected Expenditures</b>	<b>\$ 11,193,916</b>	<b>\$ 952,820</b>	<b>\$ 500,820</b>	<b>\$ 436,000</b>	<b>\$ 750,000</b>	<b>\$ 545,000</b>	<b>\$ 8,009,276</b>

## Total General Government CIP by Department



**\$11,193,916**

# Capital Improvement Plan 2019 - 2024

## CIP General Government Summary of Projects

		Total \$ Project 2019 - 2024	2019	2020	2021	2022	2023	2024
<b>PARKS PROJECTS</b>								
P1	Ginder Creek Trail and Site Restoration	113,000	113,000					
P2	Grant Matching Funds	25,000	2,500	2,500	5,000	5,000	5,000	5,000
P3	Parks Comp Plan Update	80,000		40,000	40,000			
P4	Boat Launch Park Shoreline Stabilization	300,000					30,000	270,000
P5	New Cemetery Niche Wall	25,000	25,000					
P6	Rehabilitate East Ginder Creek Property	35,000	35,000					
P7	Gym HVAC	20,000		20,000				
P8	Boat Launch Pay Station	20,000	20,000					
P9	Skate Park Reconstruction	300,000						300,000
<b>TOTAL PARKS PROJECTS</b>		<b>918,000</b>	<b>195,500</b>	<b>62,500</b>	<b>45,000</b>	<b>5,000</b>	<b>35,000</b>	<b>575,000</b>
<b>FIRE DEPARTMENT PROJECTS</b>								
F1	Replace Reserve Engine 98	600,000	600,000					
F2	Replace SCBA and Lifepak 12s	272,000		272,000				
F3	Replace 2000 Primary Fire Engine	650,000			50,000	600,000		
F4	Replace Aid Car	225,000					225,000	
F5	Lawson Hills Fire Station & Equipment	7,637,276			200,000		135,000	7,302,276
<b>TOTAL FIRE PROJECTS</b>		<b>9,384,276</b>	<b>600,000</b>	<b>272,000</b>	<b>250,000</b>	<b>600,000</b>	<b>360,000</b>	<b>7,302,276</b>
<b>POLICE PROJECTS</b>								
L1	Patrol Car Replacement Program	410,000	55,000	60,000	65,000	70,000	75,000	85,000
L2	Radio Replacement Program	18,640	9,320	9,320				
<b>TOTAL POLICE PROJECTS</b>		<b>428,640</b>	<b>64,320</b>	<b>69,320</b>	<b>65,000</b>	<b>70,000</b>	<b>75,000</b>	<b>85,000</b>
<b>GENERAL GOVERNMENT PROJECTS</b>								
G1	City Technology Upgrades	411,000	83,000	75,000	71,000	70,000	70,000	42,000
G2	General Facility Maintenance	35,000	10,000	5,000	5,000	5,000	5,000	5,000
G3	Gym / Wayfinding Signs	17,000		17,000				
<b>TOTAL ADMINISTRATION &amp; CITY PROJECTS</b>		<b>463,000</b>	<b>93,000</b>	<b>97,000</b>	<b>76,000</b>	<b>75,000</b>	<b>75,000</b>	<b>47,000</b>
<b>TOTAL GENERAL GOVT CAPITAL PROJECTS</b>		<b>11,193,916</b>	<b>952,820</b>	<b>500,820</b>	<b>436,000</b>	<b>750,000</b>	<b>545,000</b>	<b>8,009,276</b>

# Capital Improvement Plan 2019 - 2024

## CIP General Government Summary of Projects

FUNDING FOR GENERAL GOVERNMENT PROJECTS		Total \$ Project 2019 - 2024	2019	2020	2021	2022	2023	2024
<b>REET I FUNDING</b>								
P2	Grant Matching Funds	25,000	2,500	2,500	5,000	5,000	5,000	5,000
P3	Parks Comp Plan Update	80,000		40,000	40,000			
P4	Boat Launch Park Shoreline Stabilization	150,000					30,000	120,000
P6	Rehabilitate East Ginder Creek Property	20,000	20,000					
P7	Gym HVAC	20,000		20,000				
P8	Boat Launch Pay Station	20,000	20,000					
G1	City Technology Upgrades	392,000	70,000	70,000	70,000	70,000	70,000	42,000
G2	General Facility Maintenance	35,000	10,000	5,000	5,000	5,000	5,000	5,000
G3	Gym / Wayfinding Signs	11,000		11,000				
L1	Patrol Car Replacement Program	410,000	55,000	60,000	65,000	70,000	75,000	85,000
F1	Replace Reserve Engine 98	12,620	12,620					
F2	Replace SCBA and Lifepak 12s	44,254		44,254				
F3	Replace 2000 Primary Fire Engine	105,755			50,000	55,755		
F4	Replace Aid Car	20,500					20,500	
<b>Total REET 1 Funding</b>		<b>1,346,129</b>	<b>190,120</b>	<b>252,754</b>	<b>235,000</b>	<b>205,755</b>	<b>205,500</b>	<b>257,000</b>
<b>DEVELOPER FUNDING</b>								
F5	Lawson Hills Fire Station & Equipment	7,255,412			190,000		128,250	6,937,162
<b>Total Developer Funding</b>		<b>7,255,412</b>			<b>190,000</b>		<b>128,250</b>	<b>6,937,162</b>
<b>FUNDING FROM IMPACT FEES</b>								
F1	Replace Reserve Engine 98	502,380	502,380					
F2	Replace SCBA and Lifepak 12s	227,746		227,746				
F3	Replace 2000 Primary Fire Engine	544,245			544,245			
F4	Replace Aid Car	204,500					204,500	
F5	Lawson Hills Fire Station & Equipment	381,864			10,000		6,750	365,114
<b>Total Funding from Impact Fees</b>		<b>1,860,735</b>	<b>502,380</b>	<b>227,746</b>	<b>10,000</b>	<b>544,245</b>	<b>211,250</b>	<b>365,114</b>
<b>GRANTS, LEVY AND SPECIAL FUNDING</b>								
P1	Ginder Creek Trail (KC Prop Tax Funding)	15,000	15,000					
P1	Ginder Creek Trail (KC Conservation Grant)	98,000	98,000					
P4	Boat Launch Stabilization (WA Rec & Cons)	150,000						150,000
P9	Skate Park Reconstruction (CBDG Grant)	300,000						300,000
G3	Gym / Wayfinding Signs	6,000		6,000				
<b>Total Grants, Levy and Special Funding</b>		<b>569,000</b>	<b>113,000</b>	<b>6,000</b>				<b>450,000</b>
<b>SEWER AND STREET FUNDS</b>								
P6	Rehab E Ginder Creek - Sewer Fund	10,000	10,000					
P6	Rehab E Ginder Creek - Street Fund	5,000	5,000					
<b>Total Sewer and Street Funds</b>		<b>15,000</b>	<b>15,000</b>					
<b>CARRYOVER BEGINNING BALANCE FUNDING</b>								
P5	New Cemetery Niche Wall	25,000	25,000					
F1	Replace Reserve Engine 98	85,000	85,000					
L2	Police Radio Replacement	18,640	9,320	9,320				
G1	City Technology Upgrades	19,000	13,000	5,000	1,000			
<b>Total Carryover Balance Used</b>		<b>147,640</b>	<b>132,320</b>	<b>14,320</b>	<b>1,000</b>			
<b>TOTAL GENERAL GOVT CAPITAL PROJECTS</b>		<b>11,193,916</b>	<b>952,820</b>	<b>500,820</b>	<b>436,000</b>	<b>750,000</b>	<b>545,000</b>	<b>8,009,276</b>

## REET I ANALYSIS SUMMARY (Fund 310)

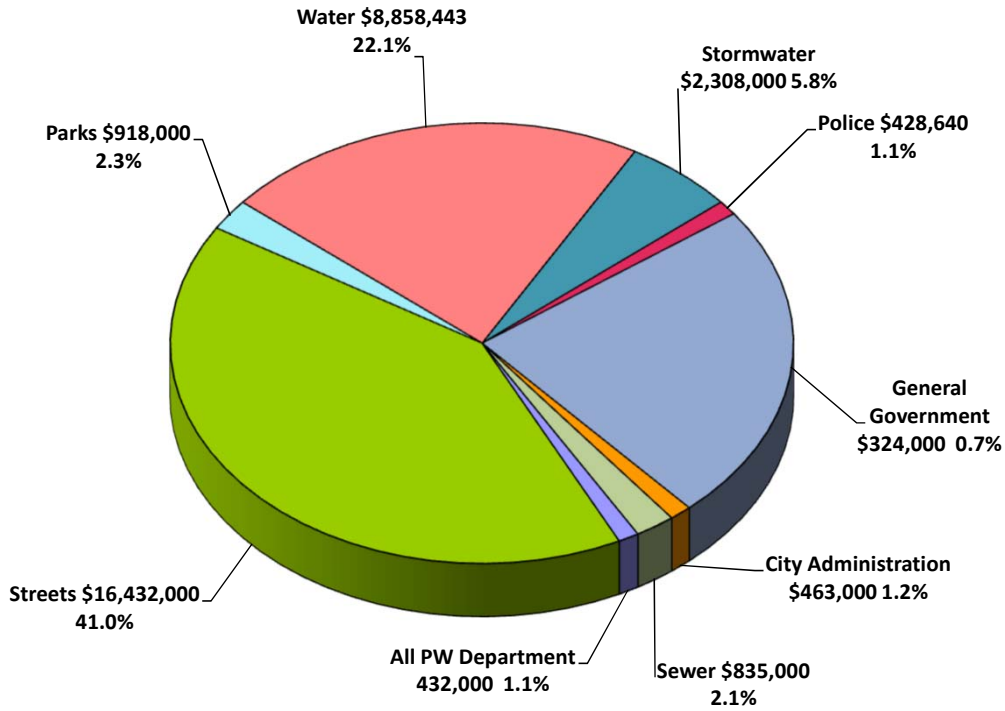
REET I - REVENUE		Capital Improvement Plan 2019 - 2024					
	Est. Ending Balance 2018	2019	2020	2021	2022	2023	2024
<b>Beginning Fund Balance</b>		131,816	117,746	68,306	67,490	116,424	136,656
<b>REET Revenue (annual)</b>							
1/4 of 1% REET - Existing Property		102,500	108,742	115,267	122,085	129,209	137,838
1/4 of 1% REET - Other new homes		73,550	94,572	118,917	132,605	96,524	105,061
<b>Subtotal REET I Revenue</b>		<b>176,050</b>	<b>203,314</b>	<b>234,184</b>	<b>254,690</b>	<b>225,732</b>	<b>242,898</b>
<b>General Government</b>		<b>307,866</b>	<b>321,060</b>	<b>302,490</b>	<b>322,179</b>	<b>342,156</b>	<b>379,555</b>
REET I - PROJECT EXPENDITURES		Capital Improvement Plan 2019 - 2024					
		2019	2020	2021	2022	2023	2024
<b>General Government</b>							
G1 City Technology Upgrades		70,000	70,000	70,000	70,000	70,000	42,000
G2 City Facilities		10,000	5,000	5,000	5,000	5,000	5,000
G3 Gym / Wayfinding Signs			11,000				
<b>Subtotal General Government</b>		<b>80,000</b>	<b>86,000</b>	<b>75,000</b>	<b>75,000</b>	<b>75,000</b>	<b>47,000</b>
<b>Parks</b>							
P2 Grant Matching Funds		2,500	2,500	5,000	5,000	5,000	5,000
P3 Comp Plan Update			40,000	40,000			
P4 Boat Launch Park Shoreline Stabilization						30,000	120,000
P6 Rehabilitate East Ginder Creek Property		20,000					
P7 Gym HVAC			20,000				
P8 Rehabilitate East Ginder Creek Property		20,000					
<b>Subtotal Parks</b>		<b>42,500</b>	<b>62,500</b>	<b>45,000</b>	<b>5,000</b>	<b>35,000</b>	<b>125,000</b>
<b>Public Safety</b>							
L1 Patrol Car Replacement Plan		55,000	60,000	65,000	70,000	75,000	85,000
F1 Replace Reserve Engine 98		12,620					
F2 Replace SCBA and Lifepak 12s			44,254				
F3 Replace 2000 Primary Fire Engine				50,000	55,755		
F4 Replace Aid Car						20,500	
<b>Subtotal Public Safety</b>		<b>67,620</b>	<b>104,254</b>	<b>115,000</b>	<b>125,755</b>	<b>95,500</b>	<b>85,000</b>
<b>Total REET I Projects</b>	<b>\$1,346,129</b>	<b>190,120</b>	<b>252,754</b>	<b>235,000</b>	<b>205,755</b>	<b>205,500</b>	<b>257,000</b>
<b>TOTAL REET I</b>	<b>Estimated</b>	<b>190,120</b>	<b>252,754</b>	<b>235,000</b>	<b>205,755</b>	<b>205,500</b>	<b>257,000</b>
<b>REET I left for next year (Ending Balance)</b>	<b>131,816</b>	<b>117,746</b>	<b>68,306</b>	<b>67,490</b>	<b>116,424</b>	<b>136,656</b>	<b>122,555</b>
<b>REET based on Houses sold</b>		<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>
Existing Property Sales (in 000's)		100 @ \$410	100 @ \$422	100 @ \$435	100 @ \$448	100 @ \$461	100 @ \$475
Other new home sales (in 000's)		62 @ \$410	82 @ \$422	102 @ \$435	105 @ \$448	75 @ \$461	80 @ \$475

# Capital Improvement Plan 2019 - 2024

## Total Summary by Department

Departments	Total \$ Project 2019 - 2024	2019	2020	2021	2022	2023	2024
Street Department	16,432,000	1,365,000	4,602,000	8,295,000	465,000	1,635,000	70,000
Water Department	8,858,443	2,934,443	2,914,000	683,000	109,000	868,000	1,350,000
Sewer Department	835,000	35,000	295,000	20,000	440,000	15,000	30,000
Stormwater Department	2,308,000	171,706	1,481,294	155,000	140,000	80,000	280,000
All PW Shared Projects	432,000	72,000	72,000	72,000	72,000	72,000	72,000
Parks and Recreation	918,000	195,500	62,500	45,000	5,000	35,000	575,000
Fire Department	9,384,276	600,000	272,000	250,000	600,000	360,000	7,302,276
Police Department	428,640	64,320	69,320	65,000	70,000	75,000	85,000
City Administration	463,000	93,000	97,000	76,000	75,000	75,000	47,000
<b>TOTAL Project Expenditures</b>	<b>\$40,059,359</b>	<b>\$5,530,969</b>	<b>\$9,865,114</b>	<b>\$9,661,000</b>	<b>\$1,976,000</b>	<b>\$3,215,000</b>	<b>\$9,811,276</b>

### Total City CIP 2019 - 2024 \$40,059,359





# CITY OF BLACK DIAMOND

## 2018 Schedule

### 2019 – 2024 Capital Improvement Plan (CIP)

	Process		Workstudy	City Council Meetings
1	CIP Worksheets to City Departments	Complete		
2	Departments update detailed requests and submit to Finance	Complete		
3	Finance combines revenue and all Department requests for review by Mayor and Management Team for priorities and balancing.	Complete		
4	Finance and Management Team meet with Mayor to review Workstudy projects & revenue, and presentations.	Complete		
5	CIP Workstudy – Public Works	Complete		
6	CIP Special Workstudy – Non-Public Works	Complete		
7	Public Hearing for 2019 – 2024 CIP			Aug 2
8	Council adopts 2019 – 2024 CIP			Aug 16