Exhibit 1

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Five Year Capital Improvement Program

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LETTER OF INTRODUCTION FOR THE FIVE YEAR CAPITAL IMPROVEMENT PROGRAM

September 18, 2018

Honorable Mayor and Members of the Town Council,

Hereby submitted is the Five Year Capital Improvement Program (CIP) for the Town of Castle Rock, Colorado for the years 2019 through 2023. The 2019 Budget allows for \$83,220,785 associated with the Capital Improvement Program, including accumulation of reserve funds for the North Meadows Drive Widening and Crystal Valley Parkway Interchange projects. The Funding Source information in the following pages is intended to identify the revenue that is planned to pay for the capital projects included. While additional revenue is anticipated to be received each year, this information identifies only what is necessary to fund the Capital Improvement Program.

The CIP summarizes all major capital expenditures to be made over the next five years. This budget contains a summary of revenue sources and CIP costs by fund and year in which the revenues and costs are anticipated. In order to be included in the CIP, the project must meet the following guidelines:

- Costs are expected to be over \$25,000
- The resulting project has a useful life of more than one year
- The project results in the addition of a fixed asset, or extends the useful life of an existing asset or is a major software purchase
- The Town must have full ownership, or be a significant holder in a joint venture asset. For example, software that is licensed by the Town and owned by the vendor is not considered a capital asset of the Town.

During the preparation process, staff identified what would be necessary to meet existing levels of service to the community and which projects could reasonably be accomplished within each year, within the financial and staff limitations of the Town. Contractual obligations and/or needs were considered in setting the priorities.

Capital improvements are funded through a variety of sources including the use of reserves, impact fees, debt financing, grants, building use taxes and operating revenues. All available current and future resources were considered when identifying funding sources for the identified capital improvements. For example, the estimated available reserve balance was calculated and shown as a funding source, as well as estimated impact fees, building use taxes, and other revenue sources. The CIP costs projected meet, but do not exceed, the limitations of those funding sources.

Sincerely,

David L. Corliss Town Manager

2019-2023 CAPITAL IMPROVEMENT PROGRAM SUMMARY - ALL FUNDS

TOTAL CIP EXPENDITURES BY FUND AND YEAR

Fund	2019 2020 20					2021	2022	2023	Total
General Fund	\$	496,493	\$	1,033,754	\$	1,232,342	\$ 1,349,069	\$ 1,584,151	\$ 5,695,809
General Long Term Planning		325,000		1,142,100		295,000	295,000	345,000	2,402,100
Transportation Fund		1,795,000		4,011,000		927,000	948,000	540,000	8,221,000
Transportation Capital Fund		7,032,500		6,226,000		11,063,863	12,554,810	17,037,725	53,914,898
Conservation Trust Fund		600,000		600,000		600,000	600,000	600,000	3,000,000
Parks and Rec Capital Fund		200,000		3,400,000		200,000	3,400,000	200,000	7,400,000
Fire Capital		75,000		20,000		10,000	10,000	10,000	125,000
Water Fund		7,563,371		7,006,277		5,944,609	3,850,000	4,226,000	28,590,257
Water Resource Fund		37,090,668		18,433,668		9,877,662	3,761,978	10,565,172	79,729,148
Stormwater Fund		4,910,129		3,099,885		3,041,802	2,347,970	2,914,637	16,314,423
Wastewater Fund		19,719,140		4,489,941		3,039,935	1,641,764	3,150,465	32,041,245
Fleet Fund		2,272,971		2,222,599		2,698,259	4,069,148	3,421,232	14,684,209
Golf Fund		570,513		120,000		499,356	38,606	484,628	1,713,103
Community Center Fund		570,000		225,000		-	300,000	-	1,095,000
Total by Year	\$	83,220,785	\$	52,030,224	\$	39,429,828	\$ 35,166,345	\$ 45,079,010	\$ 254,926,192

FUNDING SOURCE SUMMARY

Funding Source information is intended to identify the revenue that is planned to pay for the capital projects included. While additional revenue is anticipated to be received each year, this information identifies only what is necessary to fund the Capital Improvement Program.

Source	2019	2020	2021	2022	2023 To				
Sales Tax	\$ 1,066,493	\$ 1,258,754	\$ 1,232,342	\$ 1,649,069	\$	1,584,151	\$	6,790,809	
Building Use Tax	5,987,500	5,190,600	5,042,500	6,543,000		2,710,600		25,474,200	
Road and Bridge Tax	800,000	500,000	500,000	500,000		500,000		2,800,000	
Colorado Lottery Funds	165,000	165,000	165,000	165,000		165,000		825,000	
Impact Fees	2,640,000	9,108,500	6,953,363	10,164,810		14,922,125		43,788,798	
Metered Water Sales	2,435,000	4,563,000	1,919,000	3,250,000		1,250,000		13,417,000	
System Development Fees	49,247,503	17,891,904	13,724,022	4,976,329		11,176,824		97,016,582	
Water Resources Fees	14,811,150	7,147,409	3,951,065	1,504,791		4,226,069		31,640,483	
Stormwater Charges	1,733,296	1,920,099	1,362,921	955,592		1,171,381		7,143,289	
Wastewater Service Charges	1,056,359	1,507,359	947,000	915,000		3,032,000		7,457,719	
Vehicle Repl. Contributions	1,931,921	2,000,297	2,502,906	3,792,702		3,204,994		13,432,820	
Vehicle Salvage	150,195	149,997	181,583	262,194		216,238		960,207	
Transfers from Other Funds	190,855	72,305	13,770	14,252		-		291,182	
Douglas County Shareback	435,000	435,000	435,000	435,000		435,000		2,175,000	
Charges for Service	570,513	120,000	499,356	38,606		484,628		1,713,103	
Total by Year	\$ 83,220,785	\$ 52,030,224	\$ 39,429,828	\$ 35,166,345	\$	45,079,010	\$	254,926,192	

TOWNWIDE

SUMMARY OF ESTIMATED ONGOING OPERATING COSTS

BY FUND (1)

Department / Division	Project Name	2019	2020	2021	2022	2023
General Fund						
Unmanned Aerial Vehic	le	\$ -	\$ -	\$ 2,600	\$ 2,600	\$ 2,600
General Long Term Planning	Fund					
Draft Commander (2)		(10,000)	(10,000)	(10,000)	(10,000)	(10,000)
Auto Extrication Equipn	nent	-	3,000	3,000	3,000	3,000
Transportation Fund						
Traffic Signal Program		5,200	2,600	2,600	2,600	2,600
Fire Capital Fund						
Station 152 Vehicle Equ	ipment	2,000	2,000	2,000	2,000	2,000
Water Fund						
Pump & Distribution Sys	stem Upgrades	-	30,074	30,074	30,074	30,074
Administration & Custo	mer Service Building	-	-	12,119	12,119	12,119
Water Resources Fund						
WISE Project		500,000	500,000	1,500,000	1,500,000	1,500,000
Chatfield Reallocation P	Project	-	-	100,000	100,000	100,000
Administration & Custo	mer Service Building	-	-	5,689	5,689	5,689
Plum Creek Diversion		-	2,300,000	2,300,000	2,300,000	2,300,000
PCWPF Expansion		820,000	1,100,000	1,100,000	1,100,000	1,100,000
Stream Gages		15,000	15,000	15,000	15,000	15,000
Stormwater Fund						
Administration & Custo	mer Service Building	-	-	5,510	5,510	5,510
Wastewater Fund						
Administration & Custo	mer Service Building	-	-	6,682	6,682	6,682
Total Ongoing Operating Exp	enditures by Year	\$ 1,332,200	\$ 3,942,674	\$ 5,075,274	\$ 5,075,274	\$ 5,075,274

NOTE: New vehicle additions to the fleet are incorporated and paid for in each individual department. Operating costs associated with a vehicle addition on average are \$986 for repair and maintenance and \$1,200 for fuel annually

- (1) Existing Capital Improvement Programs included above reflect projects with known ongoing operating costs
- (2) Savings in Water-Sewer expenditures are anticipated

GENERAL FUND

PROJECTS & FUNDING SOURCES BY DEPARTMENT

Project Expenditures	2019		2020		2021		2022		2023	Total
Fire & Rescue Department										
Unmanned Aerial Vehicle	\$ -	\$	-	\$	30,000	\$	-	\$	-	\$ 30,000
Bullex Digital Fire Simulator	39,100		-		-		-		-	39,100
Parks & Recreation Department										
Annual Trail Improvements	73,593		607,754		638,142		670,049		703,551	2,693,089
DoIT Department										
Cisco Devices	294,800		374,000		475,200		602,800		765,600	2,512,400
Server Replacement	89,000		52,000		89,000		76,220		115,000	421,220
Total Expenditures by Year	\$ 496,493	\$ 1	1,033,754	\$1	,232,342	\$ 1	L,349,069	\$1,	,584,151	\$ 5,695,809
Project Funding Sources	2019		2020		2021		2022		2023	Total
Sales Tax	\$ 496,493	\$:	1,033,754	\$1	,232,342	\$ 1	L,349,069	\$1,	,584,151	\$ 5,695,809
Total Funding Sources by Year	\$ 496,493	\$ 1	1,033,754	\$1	,232,342	\$ 1	L ,349,0 69	\$1,	,584,151	\$ 5,695,809

Funding Source information is intended to identify the revenue that is planned to pay for the capital projects included. While additional revenue is anticipated to be received each year, this information identifies only what is necessary to fund the Capital Improvement Program.



Fire and Rescue Department Apparatus and Personnel

Project Name Unmanned Aerial Vehicle

Project Number: 70-30

Contact: Brian Dimock, Division Chief & Fire Marshall 5 Year Historical Total \$ 138,801

Department: Fire Department 2019-2023 Total 30,000

Category: Equipment CIP Project Total (2014-2023): \$ 168,801

Type: New Useful Life: 3-5 years

Description and Justification

The Fire Department Unmanned Aerial Vehicle (UAV) program has been in place since 2016. UAVs are used almost daily for incident support, documentation, inspections, and training. Pilots are FAA licensed UAV pilots, operating within federal guidelines. The UAV Team also provides support to Castle Rock Police Department, Douglas County Sheriff's Office, Colorado State Patrol, and Douglas County Search and Rescue, as well as mutual aid to other departments, including our Town partners. Day to day UAV operations are typically accomplished utilizing the small platform Mavic Pro quadcopters equipped with HD color video and photo technology. For specialized UAV flight operations the Inspire 1 quadcopters are currently being used, but they are limited to a single camera, allowing fo either a color HD or Thermal (FLIR) can be operated. This can become a limiting factor during complex missions, fire operations, search and rescue, SWAT operations, and other public safety uses. The Matrice 210 model solves many of these limitations in the fact that it incorporates in its technology a gimbal mounted Thermal FLIR camera, as well as a second gimbal mounted HD Color camera that can be operated independently of one another. This UAV would significantly increase the capabilities of the UAV program to support our partners in public safety, as well as protecting the community through the use of innovative cost effective aerial technology at far less expense rate than manned aircraft. Through adding an optional tethering kit, the Matrice 210 can climb to 400 feet above the ground, providing a continuous power supply for unlimited flight time to monitor safety at large events, fires, or other public safety needs. When time is of essence and weather conditions turn foul, first responders require a versatile and reliable aerial platform. The Matrice 210 is able to carry visual and/or thermal sensors at the same time, the 210 provides situational awareness of potentially dangerous situations, such as fires and natural disasters. This technology allows the incident commanders to use data collected by the aircraft to make smarter and better decisions, protecting life and property while minimizing the safety risk to rescue personnel.

Expenditures			2019			2020			2021		2022			2023			Total
UAV Purchase		\$		-	\$		-	\$	30,000	\$		-	\$		-	\$	30,000
		_			_			_		_			_				
	Total Expenditures	<u>\$</u>		-	Ş		-	Ş	30,000	Ş		-	Ş		-	Ş	30,000
Funding Sources			2019			2020			2021		2022			2023			Total
Sales Tax		\$		-	\$		-	\$	30,000	\$		-	\$		-	\$	30,000
	Total Funding Sources	\$		-	\$		-	\$	30,000	\$		-	\$		-	\$	30,000

Operational Impact

Operating expenditures are reflected within the Fire Department's budget, totalling approximately \$2,600 per year.

Project Name Bullex Digital Fire Simulator

Project Number: 70-30

Contact: Christopher McCarthy, Division Chief 5 Year Historical Total \$ 16,940

Department: Fire Department 2019-2023 Total 39,100

Category: Equipment CIP Project Total (2014-2023): \$ 56,040

Type: New Useful Life: 5 years

Description and Justification

This request is intended to accommodate the purchase of two Bullex Digital Fire Simulators to enable the Training Division to conduct simulated fire training in multiple areas of the Fire Training Tower without violating NFPA 1403 Standard on Live Fire Training Evolutions. This is in line with the department mission of high customer satisfaction through quality preparation and excellent service.

This request aligns with Council priorities of providing outstanding public health and safety services, and will assist us in preparing our members to fight fires. There are no other alternatives other than to not conduct realistic training, and there are no associated ongoing maintenance costs.

Expenditures			2019		2020			2021			2022			2023			Total
Simulator Purchas	e	\$	39,100	\$		-	\$		-	\$		-	\$		-	\$	39,100
	Total Expenditures	\$	39,100	\$		-	\$		_	\$		-	\$		-	\$	39,100
Funding Sources			2019		2020			2021			2022			2023			Total
Sales Tax		\$	39,100	\$		-	\$		-	\$		-	\$		-	\$	39,100
	Total Funding Sources	Ś	39,100	Ś		_	Ś		_	Ś		_	Ś		_	Ś	39,100

Operational Impact

No additional operating expenditures are anticipated as a result of this purchase.

Project Name Annual Trail Improvements

Project Number: 75-14

Category:

Contact: Jeff Smullen, Assistant Director of Parks & Recreation 5 Year Historical Total \$ 4,278,369

CIP Project Total (2014-2023): \$

6,971,458

Department: Parks & Recreation Department 2019-2023 Total 2,693,089

Type: New
Useful Life: 50 Years

Parks/Trails

Description and Justification

Annual Trail Improvements are funded by sales tax, a portion of which was enacted by voters to fund trail improvements throughout Castle Rock. As a result, the trails account receives an annual transfer from a portion of sales tax through the Town's Transportation Fund in addition to outside contributions, such as grant support when available. Public Works and the Parks and Recreation Department have worked to evaluate all potential projects and create a capital plan that addresses priorities for both sidewalks and trails. Design of Sellars Gulch Trail, McMurdo Gulch Trail, and a soft-surface trail at Gateway Mesa Open Space is planned in 2019 with some construction expected to begin in 2020.

Projects in outgoing years will be determined based on identified needs throughout the Town and will be implemented as funding is available.

Expenditures		2019		2020		2021		2022	2023		Total
Construction Contracts	Ś	73.593	Ś	607.754	Ś	638.142	Ś	670.049	\$ 703.551	Ś	2.693.089

	Total Expenditures	\$ 73,593	\$ 607,754	\$ 638,142	\$ 670,049	\$ 703,551	\$ 2,693,089
Funding Sources		2019	2020	2021	2022	2023	Total
Sales Tax		\$ 73,593	\$ 607,754	\$ 638,142	\$ 670,049	\$ 703,551	\$ 2,693,089

Total Funding Sources \$	73,593	\$ 607,754	\$ 638,142	\$ 670,049	\$ 703,551	\$ 2,693,089

Operational Impact

Costs to maintain the addition to the trail will be minimal and can be accommodated within current budgeted resources.

Project Name Cisco Devices

Project Number: 76-80

Contact:Jennifer Jaeger, Chief Technology Officer5 Year Historical Total\$ 663,039Department:Division of Innovation and Technology2019-2023 Total2,512,400

Category: Technology CIP Project Total (2014-2023): \$ 3,175,439

Type: Replacement Useful Life: 5 Years

Description and Justification

This project will replace a portion of Cisco networking devices including any that are five years or older. Network devices are an essential requirement to deliver data between computers and servers. If a Cisco network device fails, data cannot be delivered, and employee productivity is greatly reduced. Maintaining these devices is important for daily work of almost every Town employee.

The Town is no longer able to buy support for some of these devices, and the likelihood of failure increases with age. Proactive replacement of the devices will avoid excessive downtime from an unscheduled failure while allowing staff to find and buy the best replacement option. Cisco devices grow at an annual rate of 27%. Replacement costs are estimated as follows, per year:

- 2019 based on 20% of 268 devices
- 2020 based on 20% of 340 devices
- 2021 based on 20% of 432 devices
- 2022 based on 20% of 548 devices
- 2023 based on 20% of 696 devices

The cost of devices vary, but average \$5,500 each.

Expenditures		2019	2020	2021	2022	2023	Total
Cisco Devices		\$ 294,800	\$ 374,000	\$ 475,200	\$ 602,800	\$ 765,600	\$ 2,512,400
	Total Expenditures	\$ 294,800	\$ 374,000	\$ 475,200	\$ 602,800	\$ 765,600	\$ 2,512,400
Funding Sources		2019	2020	2021	2022	2023	Total
Sales Tax	_	\$ 294,800	\$ 374,000	\$ 475,200	\$ 602,800	\$ 765,600	\$ 2,512,400

Total Funding Sources	\$ 294,800	\$ 374,000	\$ 475,200	\$ 602,800	\$ 765,600	\$ 2,512,400

Operational Impact

No additional revenues or expenditures are anticipated as a result of this project.

Project Name Server Replacement

Project Number: 76-83

Contact: Jennifer Jaeger, Chief Technology Officer 5 Year Historical Total \$ 291,155

Department: Division of Innovation and Technology 2019-2023 Total 421,220

Category: Technology CIP Project Total (2014-2023): \$ 712,375

Type: Replacement Useful Life: 5 Years

Description and Justification

Funding requested for this project will be used to replace a percentage of the 16 physical servers in Town each year to make sure critical business operations continue to run without interruption. These 16 physical servers house 145 virtual servers that contain Town data for every application used by Town employees. Just like computers on desktops, the backend servers get old and must be replaced before a critical hardware failure causes excessive downtime. If a physical server should fail, multiple departments would be affected, resulting in impacts to productivity and corresponding levels of service. Five year old servers need to be replaced or the Town risks failures, which could potentially result in major outages. A regular schedule will keep systems healthy and vendor support available. 3 of the 16 physical servers require replacement in 2019.

Expenditures		2019	2020	2021	2022	2023	Total
Server Equipment		\$ 74,000	\$ 37,000	\$ 74,000	\$ 61,220	\$ 100,000	\$ 346,220
UPS Remote Serve	r	15,000	15,000	15,000	15,000	15,000	75,000
	Total Expenditures	\$ 89,000	\$ 52,000	\$ 89,000	\$ 76,220	\$ 115,000	\$ 421,220
Funding Sources		2019	2020	2021	2022	2023	Total
Funding Sources Sales Tax		\$ 2019 89,000	\$ 2020 52,000	\$ 2021 89,000	\$ 2022 76,220	\$ 2023 115,000	\$ Total 421,220
		\$ 	\$ 	\$ 	\$ 	\$ 	\$

Operational Impact

No additional revenues or expenditures are anticipated as a result of this project.

GENERAL LONG TERM PLANNING FUND* TOWN MANAGER PROJECTS & FUNDING SOURCES BY DEPARTMENT

Project Expenditures	2019		2020	2021	2022	2023	Total
Synthetic Turf Replacement	\$ -	\$	216,000	\$ 295,000	\$ 295,000	\$ 345,000	\$ 1,151,000
Self Contained Breathing Apparatus	-		926,100	-	-	-	926,100
Fire Equipment	175,000		-	-	-	-	175,000
Auto Extrication Equipment	150,000		-	-	-	-	150,000
Total Expenditures by Year	\$ 325,000	\$:	1,142,100	\$ 295,000	\$ 295,000	\$ 345,000	\$ 2,402,100
Project Funding Sources	2019		2020	2021	2022	2023	Total
Building Use Tax	\$ 325,000	\$:	1,142,100	\$ 295,000	\$ 295,000	\$ 345,000	\$ 2,402,100
Total Funding Sources by Year	\$ 325,000	\$:	1,142,100	\$ 295,000	\$ 295,000	\$ 345,000	\$ 2,402,100

Funding Source information is intended to identify the revenue that is planned to pay for the capital projects included. While additional revenue is anticipated to be received each year, this information identifies only what is necessary to fund the Capital Improvement Program.

*The General Long Term Planning fund is utlized for one time repairs, improvements, and replacement of Town facilities, technology, and infrastructure



Castle Rock Sunset

Project Name Synthetic Turf Replacement

Project Number: 78-47

Contact: Jeff Smullen, Assistant Director of Parks & Recreation 5 Year Historical Total \$

Department: Parks & Recreation Department 2019-2023 Total 1,151,000

Category: Parks/Trails CIP Project Total (2014-2023): \$ 1,151,000

Type: Replacement Useful Life: 10 Years

Description and Justification

The Parks and Recreation department requests funding for synthetic turf replacement in 2020 for Butterfield Park, 2021 for Gemstone Park, 2022 for Matney Park, and 2023 for Rhyolite Regional Park. Turf on field sites is nearing the end of the expected life and will need to be replaced in order to maintain proper safety levels, and to maintain the functional and aesthetic quality of these parks. Synthetic turf surfaces are regularly evaluated for safety and actual project timing may change based on this ongoing evaluation.

Expenditures	2019		2020	2021	2022	2023	Total
Site Improvements	\$	-	\$ 216,000	\$ 295,000	\$ 295,000	\$ 345,000	\$ 1,151,000

	Total Expenditures	\$	-	\$ 216,000	\$ 295,000	\$ 295,000	\$ 345,000	\$ 1,151,000
Funding Sources		2019		2020	2021	2022	2023	Total
Building Use Tax		\$	-	\$ 216,000	\$ 295,000	\$ 295,000	\$ 345,000	\$ 1,151,000

_						
Total Funding Sources	\$ - :	216,000	\$ 295,000	\$ 295,000	\$ 345,000	\$ 1,151,000

Operational Impact

No additional revenues or expenditures are anticipated as a result of this project.

Project Name Self Contained Breathing Apparatus

Project Number: 70-30

Contact: Norris Croom, Deputy Fire Chief 5 Year Historical Total \$ 26,389

Department: Fire Department 2019-2023 Total 926,100

Category: Equipment CIP Project Total (2014-2023): \$ 952,489

Type: Replacement Useful Life: 10 years

Description and Justification

The Fire and Rescue Department utilizes Self Contained Breathing Apparatus (SCBAs), which allow responders to breathe safely when entering hazardous environments as a result of fires, hazardous materials incidents, or any other type of incident that could create a hazardous breathing environment. Current equipment was purchased in 2010, and will reach end of life in 2020.

This request is to replace the old equipment with current and more technologically advanced equipment to ensure continued maintainance of exsisting level of service. This cost is an estimate at this time to replace all of our existing equipment, but it's based on current costs with a 5% inflation rate. The department will monitor costs as we move into future years and should be able to provide a more accurate estimate as we get closer to 2020. Currently, there are 75 SCBAs, at a cost of \$9,000 each for a total of \$675,000. Additionally, there are 150 SCBA cylinders at a cost of \$1,100 each, or \$165,000, for a total cost of \$840,000. Using these cost estimates plus inflation, this request is for \$926,100. There is a possibility to lease/purchase this equipment to spread the cost out over several years if needed.

This aligns with the Council priority of providing outstanding public health and safety. Replacement of this equipment will maintain exsisting level of service, while not replacing them could reduce levels of service should the old SCBAs fail or become non-compliant.

Expenditures		2019		2020	2021		2022		2023		Total
SCBA Purchase		\$	-	\$ 926,100	\$	-	\$	-	\$	-	\$ 926,100
	Total Expenditures	\$	-	\$ 926,100	\$	-	\$	-	\$	-	\$ 926,100
Funding Sources		2019		2020	2021		2022		2023		Total
Building Use Tax		\$	-	\$ 926,100	\$	-	\$	-	\$	-	\$ 926,100
	Total Funding Sources	\$	-	\$ 926,100	\$	-	\$	-	\$	-	\$ 926,100

Operational Impact

There should be minimal to no operational costs associated with cost of this equipment other than the required annual inspection and maintenance as well as hydrotesting of the SCBA bottles.

Project Name Fire Equipment

Project Number: 70-30

Contact: Norris Croom, Interim Fire Chief 5 Year Historical Total \$ 26,389

Department: Fire Department 2019-2023 Total 175,000

Category: Equipment CIP Project Total (2014-2023): \$ 201,389

Type: New Useful Life: 5 years

Description and Justification

This requested project includes multiple items. The first is a Draft Commander, which is a mobile pump testing unit used to test fire apparatus water pumping equipment. This purchase would benefit the Fire Department fleet annual pump testing, as well as testing after major repairs, as per the National Fire Protection Association (NFPA). This purchase would also be of benefit to Training, as it would allow the testing and training of nozzles, engineer testing and training, and training and flowing water by recycling water when the Town is on water restrictions. The Draft Commander could also be used as a mobile fill site if needed. This equipment is a multi-use device that contributes greatly to improving department training and maintenance capabilities while conserving water for the Town, which is a significant community issue.

This request also accommodates the purchase of truck lifts to be used in the repair and maintenance of the Fire Department fleet. These lifts would also have scale capabilities and can be used to perform annual weighing of all fire units. Currently, the department has to drive apparatus to a local company for use of their scale to weigh all vehicles. Included in this quote is six lifts and four large stands for use with the lifts. This request will allow the Fire Senior Emergency Vehicle Technician to better perform maintenance and service on our apparatus as there is currently no way to lift apparatus, thus all work is done from the floor.

This request aligns with Council priorities of providing outstanding public health and safety services, and will assist in preparing staff members to fight fires. There are no other alternatives other than to not conduct realistic training, and there are no associated ongoing maintenance costs.

Expenditures		2019	2020		2021		2022		2023		Total
Draft Commander	r	\$ 110,000	\$	-	\$	-	\$	-	\$	-	\$ 110,000
Truck Lifts		65,000		-		-		-		-	65,000
	Total Expenditures	\$ 175,000	\$	-	\$	-	\$	-	\$	-	\$ 175,000
Funding Sources		2019	2020		2021		2022		2023		Total
Building Use Tax		\$ 175,000	\$	-	\$	-	\$	-	\$	-	\$ 175,000
	Total Funding Sources	\$ 175,000	\$	-	\$	-	\$	-	\$ 	-	\$ 175,000

Operational Impact

Purchase of the Draft Commander will result in \$10,000 per year savings in testing fees paid to other agencies, as well as savings in drive time for staff and reduced water consumption due to the unit using recirculated water.

Project Name Auto Extrication Equipment

Project Number: 70-30

Contact: Norris Croom, Interim Fire Chief 5 Year Historical Total \$ 26,389

Department: Fire Department 2019-2023 Total 150,000

Category: Equipment CIP Project Total (2014-2023): \$ 176,389

Type: Replacement
Useful Life: 10 years

Description and Justification

The Fire and Rescue Department utilizes vehicle extrication tools to extricate patients from auto accidents. The current equipment was purchased in 2009, and will reach end of life in 2019. This request is to replace the old equipment with current and technologically advanced equipment to ensure continuing maintenance of this level of service as automobile manufacturers continue to change the construction of their vehicles. This cost is an estimate at this time to replace all existing equipment and is based on current costs with a 3% inflation rate. Costs will be monitored and updated to provide a more accurate estimate.

This request aligns with the Council priority of providing outstanding public health and safety. Replacement of this equipment will maintain levels of service, while not replacing them could reduce the level of service should the old tools fail or not be able to cut through the more modern car materials.

Expenditures		2019	2020		2021		2022		2023		Total
EMS Equipment		\$ 150,000	\$	-	\$	-	\$	-	\$	-	\$ 150,000
	Total Expenditures	\$ 150,000	\$	-	\$	-	\$	-	\$	-	\$ 150,000
Funding Sources		2019	2020		2021		2022		2023		Total
Building Use Tax		\$ 150,000	\$	-	\$	-	\$	-	\$	-	\$ 150,000
	Total Funding Sources	\$ 150,000	\$	-	\$	-	\$	-	\$	_	\$ 150,000

Operational Impact

A total of \$3,000 is included in operating expenses beginning in 2020 in the Fire and Rescue Operations Division in the General Fund to accomodate estimated ongoing maintenance costs related to this equipment.

TRANSPORTATION FUND PUBLIC WORKS DEPARTMENT PROJECTS & FUNDING SOURCES BY DEPARTMENT

Project Expenditures		2019		2020	2021	2022	2023	Total
Miscellaneous Projects & Studies	\$	75,000	\$	75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 375,000
Traffic Safety Improvements		50,000		50,000	50,000	50,000	50,000	250,000
Traffic Signal Program		550,000		250,000	250,000	250,000	250,000	1,550,000
Neighborhood Traffic Calming		25,000		25,000	25,000	25,000	25,000	125,000
Development Related Projects		100,000		100,000	100,000	100,000	100,000	500,000
ADA Ramps		40,000		40,000	40,000	40,000	40,000	200,000
Craig & Gould N. Infrastructure		800,000	3	3,100,000	-	-	-	3,900,000
Downtown Alley Improvements		100,000		315,000	330,000	350,000	-	1,095,000
Illuminated Street Name Signs		55,000		56,000	57,000	58,000	-	226,000
Total Expenditures by Year	\$ 1	,795,000	\$ 4	1,011,000	\$ 927,000	\$ 948,000	\$ 540,000	\$ 8,221,000
		•		•	•	•		

Project Funding Sources	2019	2020	2021	2022	2023	Total
Road and Bridge Tax	\$ 800,000	\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000	\$ 2,800,000
Building Use Tax	995,000	3,511,000	427,000	448,000	40,000	5,421,000
Total Funding Sources by Year	\$ 1,795,000	\$4,011,000	\$ 927,000	\$ 948,000	\$ 540,000	\$ 8,221,000

Funding Source information is intended to identify the revenue that is planned to pay for the capital projects included. While additional revenue is anticipated to be received each year, this information identifies only what is necessary to fund the Capital Improvement Program.



Curb and Gutter Work in Progres

Project Name Miscellaneous Projects & Studies

Project Number: 75-24

Contact: Carl Armijo, Project Manager 5 Year Historical Total \$ 127,371

Department: Public Works Department 2019-2023 Total 375,000

Category: Infrastructure CIP Project Total (2014-2023): \$ 502,371

Type: New Useful Life: Variable

Description and Justification

Small projects and studies are typically identified during the year that are currently unknown. Projects typically arise that were not accounted for or specifically identified in the annual budget process. The purpose of this miscellaneous projects account is to have monies available when minor unexpected road projects are needed to be funded and constructed. Examples include projects such as repair of broken concrete sidewalks, minor drainage improvements, or subsurface investigations such as the Sixth Street alley wall failure and Castle Oaks east approach settlement. The ability to immediately implement small projects as they are identified provides for the best customer service for the public and maintains a level of service expected and provided by the Town. This project helps to address increases in traffic and congestion, which has been identified as an area of concern in the 2017 Community Survey.

Expenditures	2019	2020	2021	2022	2023	Total
Design/Engineering/Construction	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 375,000

	Total Expenditures	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 375,000
Funding Sources		2019	2020	2021	2022	2023	Total
Road and Bridge Tax		\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 375,000
To	otal Funding Sources	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 375,000

Operational Impact

Operational impacts are typically minimal as these small improvements to existing infrastructure fall under existing maintenance operations budgets.

Project Name Traffic Safety Improvements

Project Number: 75-25

Contact: Ryan Germeroth, Transp. Planning & Traffic Engineering Mgr. 5 Year Historical Total \$ 167,507

Department: Public Works Department 2019-2023 Total 250,000

Category: Infrastructure CIP Project Total (2014-2023): \$ 417,507

Type: Repair Useful Life: Variable

Description and Justification

Small traffic safety studies or projects are typically identified during the year that are currently unknown. Examples include modifications to existing crosswalks or adding new crosswalks to improve pedestrian safety. This program is intended to pay for these items. The ability to immediately implement small projects as they are identified provides for the best customer service for the public and aids in improving safety. This project helps to address increases in traffic and congestion, which has been identified as an area of concern in the 2017 Community Survey.

Expenditures	2019	2020	2021	2022	2023	Total
Construction	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 250,000

	Total Expenditures	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 250,000
Funding Sources		2019	2020	2021	2022	2023	Total
Road and Bridge Tax		\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 250,000

Total Funding Sources \$ 50,000 \$ 50,000 \$ 50,000 \$ 50,000 \$ 50,000 \$ 250,000

Operational Impact

Operational impacts are typically minimal as these small improvements to existing infrastructure fall under existing maintenance operations budgets.

Project Name Traffic Signal Program

Project Number: 75-26

Contact: Ryan Germeroth, Transp. Planning & Traffic Engineering Mgr. 5 Year Historical Total \$ 3,336,033

Department: Public Works Department 2019-2023 Total 1,550,000

Category: Infrastructure CIP Project Total (2014-2023): \$ 4,886,033

Type: New

Useful Life: 15-20 years

Description and Justification

This program is utilized to construct new traffic signals that are identified through engineering evaluations, and to perform signal system changes recommended in the comprehensive townwide system analysis. For 2019, it is expected that one new traffic signal will be needed. The exact location is to be determined through an engineering evaluation in spring 2018. For years 2020 through 2023, signal projects will be chosen based upon historical trends, judgment, and locations identified by engineering evaluations. Intersections that are close to needing a signal are evaluated annually. Installations improve traffic movement and safety of roadway users. This project helps to address increases in traffic and congestion, which has been identified as an area of concern in the 2017 Community Survey.

Expenditures	2019	2020	2021	2022	2023	Total
Construction/Engineering	\$ 550,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 1,550,000

	Total Expenditures	\$ 550,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 1,550,000
Funding Sources		2019	2020	2021	2022	2023	Total
Road and Bridge Tax		\$ 550,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 1,550,000

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Total Funding Sources	\$ 550,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 1,550,000

Operational Impact

The department currently contracts out the maintenance of traffic signal equipment as in-house specialization does not exist. In addition, electricity cost increases also exist with new signal installation. The average electricity and maintenance cost per signal is \$2,600 per year and is included in electricity costs within the Transportation Fund.

Project Name Neighborhood Traffic Calming

Project Number: 75-28

Contact: Ryan Germeroth, Transp. Planning & Traffic Engineering Mgr. 5 Year Historical Total \$ 57,925

Department: Public Works Department 2019-2023 Total 125,000

Category: Infrastructure CIP Project Total (2014-2023): \$ 182,925

Type: Upgrade Useful Life: Variable

Description and Justification

These projects are identified through the Town's Neighborhood Traffic Calming Program. This program is utilized to complete projects geared toward encouraging cars to adhere to the posted speed limit, or to reduce the amount of cut-through traffic on residential streets. Projects are identified through the current policy approved by Town Council and administered by staff. These projects are typically developed during the year as requested by residents and certain criteria are met. Examples include the installation of speed cushions on residential streets. This project helps to address the community priority of a safe and reliable transportation system.

Expenditures	2019	2020	2021	2022	2023	Total
Construction/Engineering	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 125,000

	Total Expenditures	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 125,000
Funding Sources		2019	2020	2021	2022	2023	Total
Road and Bridge Tax		\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 125,000
To	otal Funding Sources	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 125,000

Operational Impact

The impact to operations is minor as these projects are small in scope and fairly infrequent. Speed cushions are constructed with asphalt material that is keyed in above existing asphalt, which can be maintained within existing operations just as the asphalt surface below.

Project Name Development Related Projects

Project Number: 75-32

Contact: Bob Goebel, Director of Public Works 5 Year Historical Total \$ 155,403

Department: Public Works Department 2019-2023 Total 500,000

Category: Infrastructure CIP Project Total (2014-2023): \$ 655,403

Type: New Useful Life: Variable

Description and Justification

Opportunities exist for transportation improvements to be made in conjunction with various developments. Constructing improvements in conjunction with development improvements can be done at a reduced cost with less impact to the public. Projects are identified through the development review process and constructed as needed. The Town has recognized that opportunities exist for transportation improvements to be made in conjunction with other development activity in Town. It is the Town's intent to construct these improvements during development at a reduced cost and to continue to provide an adequate level of service. This project helps to address increases in traffic and congestion, which has been identified as an area of concern in the 2017 Community Survey.

Expenditures	2019	2020	2021	2022	2023	Total
Engineering/Construction	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 500,000

	Total Expenditures	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 500,000
Funding Sources		2019	2020	2021	2022	2023	Total
Road and Bridge Tax		\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 500,000

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Total Funding Sources	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 500,000

Operational Impact

The operational impact of the program will depend on the specific projects constructed and will be incorporated at such time.

Project Name ADA Ramps

Project Number: 76-78

Contact: Aaron Monks, Project Manager 5 Year Historical Total \$ 40,000

Department: Public Works Department 2019-2023 Total 200,000

Category: Infrastructure CIP Project Total (2014-2023): \$ 240,000

Type: Upgrade Useful Life: Variable

Description and Justification

Town Council approved the Americans with Disabilities Act (ADA) Prioritization Plans which identified \$40,000 per year to be allocated towards curb ramp upgrades based on priorities and funding. A contractor will be utilized to construct these upgrades. The goal of the ADA Curb Ramps Prioritization Plan for the Town of Castle Rock is to ensure that the Town creates accessible paths of travel within the public right-of-way for people with disabilities. The ADA Prioritization Plan will be implemented with annual construction upgrades and retrofits for curb ramps for the purpose of becoming ADA compliant. This project helps to address the community priority of a safe and reliable transportation system.

Expenditures	2019	2020	2021	2022	2023	Total
Construction	\$ 40,000	\$ 40,000	\$ 40,000	\$ 40,000	\$ 40,000	\$ 200,000

	Total Expenditures	\$ 40,000	\$ 40,000	\$ 40,000	\$ 40,000	\$ 40,000	\$ 200,000
Funding Sources		2019	2020	2021	2022	2023	Total
Building Use Tax		\$ 40,000	\$ 40,000	\$ 40,000	\$ 40,000	\$ 40,000	\$ 200,000

40,000

40,000

40,000

40,000

Operational Impact

Total Funding Sources \$

Operational impacts are typically minimal as these small improvements to existing infrastructure fall under existing maintenance operations.

40,000

200,000

Project Name Craig & Gould N. Infrastructure

Project Number: 77-62

Contact: Carl Armijo, CIP Engineering Manager 5 Year Historical Total \$ -

Department: Public Works Department 2019-2023 Total 3,900,000

Category: Infrastructure CIP Project Total (2014-2023): \$ 3,900,000

Type: Upgrade Useful Life: 30 years

Description and Justification

The scope of the project includes reconstruction and replacement of existing utility and street infrastructure. This includes reconstruction of existing pavement and the addition of curb, gutter, and sidewalk improvements. These modifications are expected to improve pedestrian safety and better define parking areas along the streets that currently do not have curbs or sidewalks. This project was included in the Public Works Five-Year Capital considerations presented to Town Council in 2014 and Strategic Planning considerations presented and approved in 2015. This infrastructure is beyond its design life, and needs to be replaced. Increased maintenance is required to keep service active, which is creating cost inefficiencies. This is a joint effort with Castle Rock Water and timing of these improvements for design and construction years was closely coordinated between both departments. This project helps to address the community priority of a safe and reliable transportation system.

Expenditures		2019	2020	2021		2022		2023		Total
Design		\$ 800,000	\$ -	\$	-	\$	-	\$	-	\$ 800,000
Construction		-	3,100,000		-		-		-	3,100,000
	Total Expenditures	\$ 800,000	\$3,100,000	\$	-	\$	-	\$	-	\$ 3,900,000
Funding Sources		2019	2020	2021		2022		2023		Total
Funding Sources Building Use Tax		\$ 2019 800,000	2020 \$ 3,100,000	\$ 2021	-	\$ 2022	-	\$ 2023	-	\$ Total 3,900,000
	Total Funding Sources	\$		\$ 2021	-	\$ 2022	-	\$ 2023	- -	\$

Operational Impact

Increased operational impacts are not anticipated as this project is an upgrade. A decrease in maintenance is expected as a result of the replacement infrastructure being "reset" to its original condition where normal preventative maintenance activities can resume.

Project Name Downtown Alley Improvements

Project Number: 78-46

Contact: Carl Armijo, Engineering Manager 5 Year Historical Total \$

Department: Public Works Department 2019-2023 Total 1,095,000

Category: Infrastructure CIP Project Total (2014-2023): \$ 1,095,000

Type: Upgrade Useful Life: 30 years

Description and Justification

The scope of the project includes reconstruction of alley pavement infrastructure and upgrades including the addition of gutter and storm drain infrastructure improvements at six locations in the Downtown area. These modifications are expected to improve drainage, safety, and access to the alleys. This infrastructure is beyond its design life, and needs to be replaced and improved. Increased maintenance is required to keep current service active, which is creating cost inefficiencies. This project is intended to address the community priority of a safe and reliable transportation system. The six alleys requiring Improvement are scheduled to be constructed over the course of three years, 2020 -2022.

Expenditures		2019	2020	2021	2022	2023		Total
Design		\$ 100,000	\$ -	\$ -	\$ -	\$	-	\$ 100,000
Construciton		-	315,000	330,000	350,000		-	995,000
	Total Expenditures	\$ 100,000	\$ 315,000	\$ 330,000	\$ 350,000	\$	-	\$ 1,095,000
Funding Sources		2019	2020	2021	2022	2023		Total
Funding Sources Building Use Tax		\$ 2019 100,000	\$ 2020 315,000	\$ 2021 330,000	\$ 2022 350,000	\$ 2023	-	\$ Total 1,095,000
		\$	\$ 	\$ 	\$ 	\$ 2023	-	\$

Operational Impact

Increased operational impacts are not anticipated as this project is a replacement. A decrease in maintenance is expected as a result of the replacement infrastructure being reset to its original condition where normal preventative maintenance activities can resume.

Project Name Illuminated Street Name Signs

Project Number: 79-02

Contact: Ryan Germeroth, Transp. Planning & Traffic Engineering Mgr. 5 Year Historical Total \$

Department: Public Works Department 2019-2023 Total 226,000

Category: Infrastructure CIP Project Total (2014-2023): \$ 226,000

Type: New Useful Life: 10 years

Description and Justification

This project is intended to install illuminated street name signs at two existing signalized intersections from 2019 to 2022. Six of the locations are at the I-25 ramp terminals at Meadows / Founders, Wolfensberger and Plum Creek Parkway. The other two locations are on Meadows Parkway at Factory Shops Boulevard and at Highway 85. Purchase and installation of signs costs approximately \$28,000 for a typical four way intersection at about \$7,000 per sign.

Expenditures	2019	2020	2021	2022	2023		Total
Construction	\$ 55,000	\$ 56,000	\$ 57,000	\$ 58,000	\$	- \$	226,000

	Total Expenditures	\$ 55,000	\$ 56,000	\$ 57,000	\$ 58,000	\$	-	\$ 226,000
Funding Sources		2019	2020	2021	2022	2023		Total
Building Use Tax		\$ 55,000	\$ 56,000	\$ 57,000	\$ 58,000	\$	-	\$ 226,000

Total Funding Sources \$ 55,000 \$ 56,000 \$ 57,000 \$ 58,000 \$ - \$ 226,000

Operational Impact

Operational impacts are typically minimal as these small improvements to existing infrastructure fall under existing maintenance operations budgets.

TRANSPORTATION CAPITAL FUND PUBLIC WORKS DEPARTMENT PROJECTS & FUNDING SOURCES BY DEPARTMENT

Project Expenditures	2019	2020	2021	2022	2023	Total
Plum Creek Pkwy Widening & Roundabout	\$ 4,667,500	\$ -	\$ 4,320,500	\$ -	\$ -	\$ 8,988,000
Plum Creek Pkwy Widening-West	-	398,000	2,757,000	-	-	3,155,000
5th St Widening	-	537,500	-	5,500,000	-	6,037,500
Ridge Road Widening	-	4,540,500	-	-	-	4,540,500
Hwy 86 and 5th St. Improvements	-	-	-	4,000,000	-	4,000,000
Wolfensberger Widening	-	-	-	900,000	7,302,000	8,202,000
Wolfensberger and Red Hawk Roundabout	-	-	-	300,000	2,325,600	2,625,600
Crowfoot and Timber Canyon Roundabout	365,000	-	2,660,000	-	-	3,025,000
Highway 86 Widening-Ridge to Enderud	-	-	576,363	-	4,125,625	4,701,988
Wilcox and South Street Roundabout	1,250,000	-	-	-	-	1,250,000
Crowfoot Valley Road Widening	-	-	-	653,310	-	653,310
Prairie Hawk Widening	-	-	-	451,500	2,534,500	2,986,000
Crystal Valley Parkway Interchange	500,000	500,000	500,000	500,000	500,000	2,500,000
North Meadows Drive Widening	250,000	250,000	250,000	250,000	250,000	1,250,000
Total Expenditures by Year	\$ 7,032,500	\$ 6,226,000	\$11,063,863	\$12,554,810	\$17,037,725	\$ 53,914,898

Project Funding Sources	2019	2020	2021	2022	2023	Total
Impact Fees	\$ 2,365,000	\$ 5,688,500	\$ 6,743,363	\$ 6,754,810	\$14,712,125	\$ 36,263,798
Building Use Tax	4,667,500	537,500	4,320,500	5,800,000	2,325,600	17,651,100
Total Funding Sources by Year	\$ 7,032,500	\$ 6,226,000	\$11,063,863	\$12,554,810	\$17,037,725	\$ 53,914,898

Funding Source information is intended to identify the revenue that is planned to pay for the capital projects included. While additional revenue is anticipated to be received each year, this information identifies only what is necessary to fund the Capital Improvement Program.



Completed Improvements at Plum Creek Parkway and Wilcox St

Project Name Plum Creek Pkwy Widening & Roundabout

Project Number: 77-05

Contact: Carl Armijo, CIP Engineering Manager 5 Year Historical Total \$ 794,375

Department: Public Works Department 2019-2023 Total 8,988,000

Category: Infrastructure CIP Project Total (2014-2023): \$ 9,782,375

Type: Upgrade Useful Life: 20 years

Description and Justification

This project will accommodate the addition of the remaining two lanes of the master planned four-lane roadway on Plum Creek Parkway which was identified in the Transportation Master Plan, revised in 2018. Construction of this project will support the continued development in the south and east areas of the Town. This project will also improve access to the I-25/Plum Creek Parkway interchange from the eastern areas of Town. In addition, this project will include bicycle and pedestrian multi use lanes. The design was advanced to 2018, and construction is phased into two areas. Construction of the widening in 2019 is planned to be from Gilbert Street to Eaton Street, and 2022 construction would be from Eaton Street to Ridge Road. In addition, construction of a roundabout at Gilbert Street and Plum Creek Parkway is planned for 2019. This project helps to address increases in traffic and congestion, which has been identified as an area of concern in the 2017 Community Survey.

Expenditures		2019		2020		2021		2022			2023			Total
Widening Construction	n	\$ 2,667,500	\$		-	\$ 4,320,500	\$		-	\$		-	\$	6,988,000
Roundabout Construc	tion	2,000,000			-	-			-			-		2,000,000
	Total Expenditures	\$ 4,667,500	\$		-	\$ 4,320,500	\$		-	\$		-	\$	8,988,000
Funding Sources		2019		2020		2021		2022			2023			Total
Building Use Tax		\$ 4,667,500	\$		-	\$ 4,320,500	\$		-	\$		-	\$	8,988,000
Tot	tal Funding Sources	\$ 4,667,500	Ś		_	\$ 4,320,500	Ś		_	Ś		_	Ś	8,988,000

Operational Impact

Project Name Plum Creek Pkwy Widening-West

Project Number: 76-52

Contact: Carl Armijo, CIP Engineering Manager 5 Year Historical Total \$ -

Department: Public Works Department 2019-2023 Total 3,155,000

Category: Infrastructure CIP Project Total (2014-2023): \$ 3,155,000

Type: Upgrade Useful Life: 20 years

Description and Justification

This project accommodates the design and construction of the remaining two lanes on Plum Creek Parkway of the master planned four-lane roadway from the pedestrian underpass located adjacent to the Philip S. Miller Regional Park to Wolfensberger Road. This project will support the continued development of the western areas of the Town by improving access between I-25 and Wolfensberger Road, and Philip S. Miller Regional Park by increasing roadway capacity and relieving congestion. This project will include bicycle and pedestrian multi-use lanes. This project helps to address increases in traffic and congestion, which has been identified as an area of concern in the 2017 Community Survey.

Expenditures		- 2	2019			2020	2021		2022			2023			Total
Design		\$		-	\$	398,000	\$ -	\$		-	\$		-	\$	398,000
Construction				-		-	2,757,000			-			-		2,757,000
	Total Expenditures	\$		-	\$	398,000	\$ 2,757,000	\$		-	\$		-	\$	3,155,000
Funding Sources		:	2019			2020	2021		2022			2023			Total
Impact Fees		\$		-	\$	398,000	\$ 2,757,000	\$		-	\$		-	\$	3,155,000
	<u>-</u>														
	Total Funding Sources			_	_	398,000	\$ 2,757,000	Ś			_		-	_	3,155,000

Operational Impact

Project Name 5th St Widening

Project Number: 78-85

Contact: Carl Armijo, CIP Engineering Manager 5 Year Historical Total \$ -

Department: Public Works Department 2019-2023 Total 6,037,500

Category: Infrastructure CIP Project Total (2014-2023): \$ 6,037,500

Type: Upgrade Useful Life: 20 years

Description and Justification

This project involves the widening of the eastbound lanes from the intersection of Woodlands Boulevard at Fifth Street to the intersection of Fifth Street and Ridge Road. The objective of this project is to reduce congestion from forecasted traffic volumes which has been identified as an area of concern in the 2017 Community Survey.

Additional pedestrian improvements will also be incorporated to improve safety between Woodlands Boulevard and Ridge Road. The timing of this project is proposed to occur with the intersection improvements at Fifth Street and Ridge Road in order to minimize disruption to transportation stakeholders.

Expenditures		2019		2020	2021		2022	2023		Total
Design		\$	-	\$ 537,500	\$	-	\$ -	\$	-	\$ 537,500
Construction				-		-	5,500,000		-	5,500,000
	Total Expenditures	\$	-	\$ 537,500	\$	-	\$ 5,500,000	\$	-	\$ 6,037,500
Funding Sources		2019		2020	2021		2022	2023		 Total
Building Use Tax		\$	-	\$ 537,500	\$	-	\$ 5,500,000	\$	-	\$ 6,037,500
	Total Funding Sources	\$	_	\$ 537,500	\$	_	\$ 5,500,000	\$	_	\$ 6,037,500

Operational Impact

Project Name Ridge Road Widening

Project Number: 78-84

Contact: Carl Armijo, CIP Engineering Manager 5 Year Historical Total \$ 403,000

Department: Public Works Department 2019-2023 Total 4,540,500

Category: Infrastructure CIP Project Total (2014-2023): \$ 4,943,500

Type: Upgrade Useful Life: 20 years

Description and Justification

This requested project involves the widening of Ridge Road from the intersection of Highway 86 and Ridge Road to the intersection of Ridge Road and Plum Creek Parkway. The objective of this project is to improve congestion relief due to current and forecasted traffic volumes. Additionally, this project is located on the eastern portion of the Town which assists with the geographic distribution of projects proposed over the five year period to minimize the density and associated impacts of multiple projects in a certain geographic area. This project helps to address increases in traffic and congestion, which has been identified as an area of concern in the 2017 Community Survey.

	2	2019		2020		2021			2022			2023			Total
	\$		-	\$ 4,540,500	\$		-	\$		-	\$		-	\$	4,540,500
Total Expenditures	\$		-	\$ 4,540,500	\$		-	\$		-	\$		-	\$	4,540,500
	2	2019		2020		2021			2022			2023			Total
	\$		-	\$ 4,540,500	\$		-	\$		-	\$		-	\$	4,540,500
Total Funding Sources	Ġ		_	\$ 4,540,500	ć			ć			ć		_	Ċ	4,540,500
	· :	\$ Total Expenditures	2019	Total Expenditures \$ - 2019	\$ - \$4,540,500 Total Expenditures \$ - \$4,540,500 2019 2020 \$ - \$4,540,500	\$ - \$4,540,500 \$ Total Expenditures \$ - \$4,540,500 \$ 2019 2020 \$ - \$4,540,500 \$	\$ - \$4,540,500 \$ Total Expenditures \$ - \$4,540,500 \$ 2019 2020 2021 \$ - \$4,540,500 \$	\$ - \$4,540,500 \$ - Total Expenditures \$ - \$4,540,500 \$ - 2019 2020 2021 \$ - \$4,540,500 \$ -	\$ - \$4,540,500 \$ - \$ Total Expenditures \$ - \$4,540,500 \$ - \$ 2019 2020 2021 \$ - \$4,540,500 \$ - \$	\$ - \$4,540,500 \$ - \$ Total Expenditures \$ - \$4,540,500 \$ - \$ 2019 2020 2021 2022 \$ - \$4,540,500 \$ - \$	\$ - \$4,540,500 \$ - \$ - \$ - Total Expenditures \$ - \$4,540,500 \$ - \$ - \$ - \$ - \$ - \$ - \$ \$ - \$ \$	\$ - \$4,540,500 \$ - \$ - \$ Total Expenditures \$ - \$4,540,500 \$ - \$ - \$ 2019 2020 2021 2022 \$ - \$4,540,500 \$ - \$ - \$	\$ - \$4,540,500 \$ - \$ - \$ Total Expenditures \$ - \$4,540,500 \$ - \$ - \$ 2019 2020 2021 2022 2023 \$ - \$4,540,500 \$ - \$ - \$	\$ - \$4,540,500 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	\$ - \$4,540,500 \$ - \$ - \$ - \$ - \$ \$ - \$

Operational Impact

This project will add to increased operational and maintenance costs within the Transportation Fund associated with additional lanes. Based on the pavement lifecycle, pavement maintenance needs will occur at approximately five years after installation and will be incorporated at that time. Pavement marking maintenance will occur annually. This impact will not be known until design details are finalized or after project completion.

Project Name Hwy 86 and 5th St. Improvements

Project Number: 78-69

Contact: Carl Armijo, CIP Engineering Manager 5 Year Historical Total \$ 340,000

Department: Public Works Department 2019-2023 Total 4,000,000

Category: Infrastructure CIP Project Total (2014-2023): \$ 4,340,000

Type: Upgrade Useful Life: 20 years

Description and Justification

This project is requested to accommodate capacity improvements at the intersection of Highway 86 and 5th Street in order to minimize congestion due to current and forecasted traffic volumes. The timing of this project is proposed to occur with the planned widening of Ridge Road in order to assist with minimizing disruption to the community. This project helps to address increases in traffic and congestion, which has been identified as an area of concern in the 2017 Community Survey.

Expenditures		2019		2020		2021		2022	2023		Total
Construction		\$	-	\$	-	\$	-	\$ 4,000,000	\$	-	\$ 4,000,000
	Total Expenditures	\$	-	\$	-	\$	-	\$4,000,000	\$	_	\$ 4,000,000
Funding Sources		2019		2020		2021		2022	2023		Total
Impact Fees		\$	-	\$	-	\$	-	\$ 4,000,000	\$	-	\$ 4,000,000
	Total Funding Sources	\$	-	\$	-	\$	-	\$ 4,000,000	\$	-	\$ 4,000,000

Operational Impact

Project Name Wolfensberger Widening

Project Number: 77-08

Contact: Carl Armijo, CIP Engineering Manager 5 Year Historical Total \$

Department: Public Works Department 2019-2023 Total 8,202,000

Category: Infrastructure CIP Project Total (2014-2023): \$ 8,202,000

Type: Upgrade Useful Life: 20 years

Description and Justification

This project accommodates the design of the remaining two lanes of the master planned four-lane roadway on Wolfensberger Road from the intersection of Red Hawk Drive to the future Philip S. Miller Regional Park entrance. This widening of the roadway will support the continued development of the north/south and west areas of the Town by improving access to the I-25 at Wolfensberger Road from the eastern areas of Town. This project will also include bicycle and pedestrian multi use lanes. This project will also reduce congestion along Wolfensbeger Road and provide needed pedestrian and bicycle connections between the downtown area and Coachline Road and supports proposed development along Wolfensberger. Construction is currently planned outside the 2019-2023 planning period. This project helps to address increases in traffic and congestion, which has been identified as an area of concern in the 2017 Community Survey.

Expenditures		2019		2020		2021		2022	2023	Total
Design		\$	-	\$	-	\$	-	\$ 900,000	\$ 7,302,000	\$ 8,202,000
	Total Expenditures	\$	-	\$	-	\$	-	\$ 900,000	\$ 7,302,000	\$ 8,202,000
Funding Sources		2019		2020		2021		2022	2023	Total
Impact Fees		\$	-	\$	-	\$	-	\$ 900,000	\$ 7,302,000	\$ 8,202,000
	Total Funding Sources	\$	-	\$	-	\$	-	\$ 900,000	\$ 7,302,000	\$ 8,202,000

Operational Impact

Project Name Wolfensberger and Red Hawk Roundabout

Project Number: 77-09

Contact: Carl Armijo, CIP Engineering Manager 5 Year Historical Total \$ -

Department: Public Works Department 2019-2023 Total 2,625,600

Category: Infrastructure CIP Project Total (2014-2023): \$ 2,625,600

Type: Upgrade Useful Life: 20 years

Description and Justification

This project accommodates the construction of a roundabout at the intersection of Wolfensberger Road with Red Hawk Drive. This project will improve the capacity of the intersection in order to assist with congestion relief as well as improve safety. A roundabout is also the most efficient traffic control throughout all hours of the day, as opposed to traffic signals, which are limited in efficiency to the peak hours of a day. The improved efficiency of a roundabout leads to increased societal benefits such as decreased delay, improved safety, and decreased environmental impacts. This project helps to address increases in traffic and congestion, which has been identified as an area of concern in the 2017 Community Survey.

Expenditures		2019		2020		2021		2022	2023	Total
Design		\$	-	\$	-	\$	-	\$ 300,000	\$ -	\$ 300,000
Construction					-		-	-	2,325,600	2,325,600
	Total Expenditures	\$	-	\$	-	\$	-	\$ 300,000	\$ 2,325,600	\$ 2,625,600
Funding Sources		2019		2020		2021		2022	2023	 Total
Building Use Tax		\$	-	\$	-	\$	-	\$ 300,000	\$ 2,325,600	\$ 2,625,600

Operational Impact

Minor increases to pavement maintenance are anticipated, dependent on the overall net change to the roadway impervious area. This impact will not be known until design details are finalized or after project completion.

Project Name Crowfoot and Timber Canyon Roundabout

Project Number: 78-99

Contact: Carl Armijo, CIP Engineering Manager 5 Year Historical Total \$

Department: Public Works Department 2019-2023 Total 3,025,000

Category: Infrastructure CIP Project Total (2014-2023): \$ 3,025,000

Type: Upgrade Useful Life: 20 years

Description and Justification

This project accommodates the design and construction of a roundabout at the intersection of North Crowfoot Valley Road and Timber Canyon Drive. This project will improve safety and mobility. A roundabout is also the most efficient traffic control throughout all hours of the day, as opposed to traffic signals, which are limited in efficiency to the peak hours of a day. The improved efficiency of a roundabout leads to increased societal benefits such as decreased delay, improved safety, and decreased environmental impacts.

Expenditures		2019	2020		2021	2022		2023		Total
Design		\$ 365,000	\$	-	\$ -	\$	-	\$	-	\$ 365,000
Construction		-		-	2,660,000		-		-	2,660,000
	Total Expenditures	\$ 365,000	\$	-	\$ 2,660,000	\$	-	\$	-	\$ 3,025,000
Funding Sources		2019	2020		2021	2022		2023		Total
Funding Sources Impact Fees		\$	\$ 2020	-	1	\$ 2022	-	\$ 2023	-	\$ Total 3,025,000
		\$	\$ 2020	-		\$ 2022	-	\$ 2023	-	\$

Operational Impact

Minor increases to pavement maintenance are anticipated, dependent on the overall net change to the roadway impervious area. This impact will not be known until design details are finalized or after project completion.

Project Name Highway 86 Widening-Ridge to Enderud

Project Number: 79-01

Contact: Carl Armijo, CIP Engineering Manager 5 Year Historical Total \$ -

Department: Public Works Department 2019-2023 Total 4,701,988

Category: Infrastructure CIP Project Total (2014-2023): \$ 4,701,988

Type: Upgrade Useful Life: 20 years

Description and Justification

This project is intended to widen State Highway 86 east from Ridge Road to Enderud Boulevard from two-lanes to four-lanes as identified in the Transportation Master Plan completed in 2017. Additional travel lanes will reduce congestion by adding roadway capacity to accommodate the projected growth in vehicles using the corridor. The roadway is currently nearing capacity and is expected to slightly exceed capacity by 2030.

Expenditures		2019		2020		2021	2022		2023	Total
Design		\$	-	\$	-	\$ 576,363	\$	-	\$ 4,125,625	\$ 4,701,988
	Total Expenditures	\$	-	\$	-	\$ 576,363	\$	•	\$ 4,125,625	\$ 4,701,988
Funding Sources		2019		2020		2021	2022		2023	Total
Impact Fees		\$	-	\$	-	\$ 576,363	\$	-	\$ 4,125,625	\$ 4,701,988
	Total Funding Sources	\$	-	\$	-	\$ 576,363	\$	-	\$ 4,125,625	\$ 4,701,988

Operational Impact

Project Name Wilcox and South Street Roundabout

Project Number: 79-10

Contact: Carl Armijo, CIP Engineering Manager 5 Year Historical Total \$ -

Department: Public Works Department 2019-2023 Total 1,250,000

Category: Infrastructure CIP Project Total (2014-2023): \$ 1,250,000

Type: Upgrade Useful Life: 20 years

Description and Justification

This project is anticipated to be constructed at the same time that the development project on the northeast corner of this intersection is planned to occur. With the anticipated increase in new traffic that will result with the development project, a roundabout is projected to enhance operations and safety at this intersection. A roundabout also fits in well with the current planning that is occurring with the Downtown Mobility Study. This improvement assists with slowing down vehicular traffic, enhancing the pedestrian environment, and still processing vehicle movement efficiently. Constructing these projects at the same time will also assist with minimizing travel disruptions to the public.

Expenditures		2019	2020		2021		2022		2023		Total
Construction		\$ 1,250,000	\$	-	\$	-	\$	-	\$	-	\$ 1,250,000
	Total Expenditures	\$ 1,250,000	\$	_	\$	-	\$	_	\$	-	\$ 1,250,000
Funding Sources		2019	2020		2021		2022		2023		Total
Impact Fees		\$ 1,250,000	\$	-	\$	-	\$	-	\$	-	\$ 1,250,000
	Total Funding Sources	\$ 1,250,000	\$	-	\$	-	\$	-	\$	-	\$ 1,250,000

Operational Impact

Operational impacts are anticipated to be minor with this project. The will be some additional pavement infrastructure that will require future maintenance needs, but this should be minor in nature.

Project Name Crowfoot Valley Road Widening

Project Number: 78-83

Contact: Carl Armijo, CIP Engineering Manager 5 Year Historical Total \$ -

Department: Public Works Department 2019-2023 Total 653,310

Category: Infrastructure CIP Project Total (2014-2023): \$ 653,310

Type: Upgrade Useful Life: 20 years

Description and Justification

This requested project involves the widening of Crowfoot Valley Road from the intersection of Knobcone Drive to the Town boundary. The objective of this project is to improve congestion relief due to current and forecasted traffic volumes. The timing of the project will account for the Canyons South development project in Douglas County and will coordinate any required widening work with the development. The project will also include analyzing the intersection of Timber Canyon and Diamond Ridge to assess improvements for resident egress from the existing developments. This project helps to address increases in traffic and congestion, which has been identified as an area of concern in the 2017 Community Survey.

Expenditures			2019		2020		2021			2022		2023		Total
Design		\$		-	\$	-	\$	-	\$	653,310	\$		-	\$ 653,310
Construction						-		-		-			-	-
	Total Expenditures	\$		-	\$	-	\$	-	\$	653,310	\$		-	\$ 653,310
Funding Sources			2019		2020		2021			2022		2023		Total
Impact Fees		\$		-	\$	-	\$	-	\$	653,310	\$		-	\$ 653,310
	Total Funding Sources	_							Ś	653,310	-			 653,310

Operational Impact

Increases to future pavement maintenance will occur with the additional lane-miles of impervious surface added to the roadway network and will be evaluated and incorporated in the Transportation Fund operating budget. This impact will not be known until project completion.

Project Name Prairie Hawk Widening

Project Number: 76-29

Contact: Carl Armijo, CIP Engineering Manager 5 Year Historical Total \$ -

Department: Public Works Department 2019-2023 Total 2,986,000

Category: Infrastructure CIP Project Total (2014-2023): \$ 2,986,000

Type: Upgrade Useful Life: 20 years

Description and Justification

The Town's Transportation Master Plan has identified the need to widen the existing two-lane roadway to four lanes, between Wolfensberber Road on the south end to Melting Snow Drive to the north. This widening is included in the Master Plan to be completed by 2030 in order to accomodate continued growth within the Town. This project objective is in line with one of the community's top priorities to address traffic congestion as identified in the past two Community Surveys.

Expenditures		2	2019		2020		2021		2022	2023	Total
Design		\$		-	\$	-	\$	-	\$ 451,500	\$ -	\$ 451,500
Construction				-		-		-	-	2,534,500	2,534,500
	Total Expenditures	\$		-	\$	-	\$	-	\$ 451,500	\$ 2,534,500	\$ 2,986,000
Funding Sources		:	2019		2020		2021		2022	2023	Total
Impact Fees		\$		-	\$ 2020	-	\$ 	-	\$ 451,500	\$ 2,534,500	\$ 2,986,000
Impact Fees		\$		-	\$ 2020	-	\$ 	-	\$ 451,500	\$ 2,534,500	\$

Operational Impact

Due to the increase in pavement area being added, increased maintenance revenue will be necessary in order to maintain the lifespan of the pavement surface.

Project Name Crystal Valley Parkway Interchange

Project Number: 78-41

Contact: Carl Armijo, CIP Engineering Manager 5 Year Historical Total \$ 22,740

Department: Public Works Department 2019-2023 Total 2,500,000

Category: Infrastructure CIP Project Total (2014-2023): \$ 2,522,740

Type: New Useful Life: 30 years

Description and Justification

A new interchange is planned to be constructed at Interstate 25 in the southernmost part of Town. Located approximately 2.5 miles south of the Plum Creek Parkway interchange, the new interchange will connect Crystal Valley Parkway on the east side of I-25 and Territorial Road on the west side. The current five year effort is intended to achieve acquisition of remaining right-of-way and set aside future project funding to allow for potential funding partnerships to assist with advancing construction. Current estimates indicate that interchange construction will cost approximately \$44 million in today's dollars. The future interchange will provide access from south Castle Rock to the metropolitan areas of Denver and Colorado Springs. It will serve the area's expanding population and is centrally located between several existing and planned developments in south Castle Rock. The interchange will also:

- -Improve safety by eliminating one at-grade railroad crossing
- -Improve the local roadway network by providing a continuous east-west through route across I-25
- -Provide direct access to I-25 for the growing population
- -Reduce existing and future congestion at the Plum Creek Parkway interchange by re-distributing traffic to this new interchange

*Please note that this funding accumulation is included as a Capital Reserve within the Transportation Capital Fund, until project expenditures are needed. These funds are not included in budget appropriations. As of 2018, a total of \$750,000 has been accumulated for this purpose.

Expenditures		2019		2020		2021		2022		2023		Total
Reserve Accumulation	Ś	500.000	Ś	2.500.000								

	Total Expenditures	\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000	\$ 2,500,000
Funding Sources		2019	2020	2021	2022	2023	Total
Impact Fees		\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000	\$ 2,500,000

| Total Funding Sources | Ś | 500.000 | \$
2.500.000 |
|------------------------------|---|---------|---|---------|---|---------|---|---------|---|---------|-----------------|

Operational Impact

Operational impacts will be evaluated and supplied when construction dates are within the five year planning timeframe.

Project Name North Meadows Drive Widening

Project Number: 77-06

Contact: Carl Armijo, CIP Engineering Manager 5 Year Historical Total \$ -

Department: Public Works Department 2019-2023 Total 1,250,000

Category: Infrastructure CIP Project Total (2014-2023): \$ 1,250,000

Type: Upgrade Useful Life: 20 years

Description and Justification

Amounts included over the next five years include the accumulation of funds for future design and construction, which will occur at a later date beyond the five year planning period. This project accommodates the construction of the remaining two-lanes of the master planned four-lane section between the US-85 interchange and Butterfield Crossing Drive. This project will support the continued development of the north and west area of the Town by increasing capacity to the I-25/Castle Rock Parkway interchange from the western areas of Town. Additional enhancements include improvements to the bicycle and pedestrian environment with additional on-street shoulders and an additional multi-use sidewalk on the south side of the road. This project is intended to reduce congestion along North Meadows Drive as future development within the Meadows area increases. Funding partnerships will be explored in order to reduce the Town financial commitment.

*Please note that this funding accumulation is included as a Capital Reserve within the Transportation Capital Fund, until project expenditures are needed. These funds are not included in budget appropriations.

Expenditures	2019		2020		2021		2022		2023		Total
Reserve Accumulation	\$ 250.000	Ś	250.000	Ś	250.000	Ś	250.000	Ś	250.000	Ś	1.250.000

	Total Expenditures	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 1,250,000
Funding Sources		2019	2020	2021	2022	2023	Total
Impact Fees		\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 1,250,000

Total Funding Sources	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 1,250,000

Operational Impact

Operational impacts will be evaluated and supplied when construction dates are within the five year planning timeframe.

CONSERVATION TRUST FUND PARKS & RECREATION DEPARTMENT PROJECTS & FUNDING SOURCES BY DEPARTMENT

Project Expenditures	2019	2020	2021	2022	2023	Total
Park Improvements	\$ 600,000	\$ 600,000	\$ 600,000	\$ 600,000	\$ 600,000	\$ 3,000,000
Total Expenditures by Year	\$ 600,000	\$ 600,000	\$ 600,000	\$ 600,000	\$ 600,000	\$ 3,000,000
Project Funding Sources	2019	2020	2021	2022	2023	Total
Project Funding Sources Douglas County Shareback	\$ 2019 435,000	\$ 2020 435,000	\$ 2021 435,000	\$ 2022 435,000	\$ 2023 435,000	\$ Total 2,175,000
· · · · · · · · · · · · · · · · · · ·	\$ 	\$ 	\$ 	\$ 	\$ 	\$

Funding Source information is intended to identify the revenue that is planned to pay for the capital projects included. While additional revenue is anticipated to be received each year, this information identifies only what is necessary to fund the Capital Improvement Program.



Rhyolite Bike Park and Amenities

Project Name Park Improvements

Project Number: 75-18

Contact: Jeff Smullen, Assistant Director of Parks & Recreation 5 Year Historical Total \$ 702,942

Department: Parks & Recreation Department 2019-2023 Total 3,000,000

Category: Parks/Trails CIP Project Total (2014-2023): \$ 3,702,942

Type: New

Useful Life: 15-20 Years

Description and Justification

The upkeep of parks and open space requires continual investment to maintain existing levels of service.

Playground equipment and other park amenities deteriorate with standard wear patterns and have an average life expectancy of 15-20 years.

This line item is reserved each year for life cycle repair and replacement projects throughout Castle Rock, which include items such as playground replacements, game court, athletic field and pavilion improvements. This line item meets the goal of providing Council supported strategic plan goal of providing safe, high quality facilities for residents through the implementation of an annual replacement program.

Staff will request funds annually through the Douglas County Shareback through 2023 and receive annual funds from the Colorado Lottery Distribution to complete design work, assessment, and capital improvements as necessary for each property as learned through the annual assessment process. The parks in the system that will be considered include but are not limited to: Mitchell Gulch, Plum Creek, Butterfield, Metzler Ranch, Paintbrush, Founders, Castle Highlands, Baldwin, Bison, and Philip S. Miller parks.

Expenditures	2019	2020	2021	2022	2023	Total
Park Improvements	\$ 600,000	\$ 600,000	\$ 600,000	\$ 600,000	\$ 600,000	\$ 3,000,000

Total Expenditure	\$ 600,000	\$ 600,000	\$ 600,000	\$ 600,000	\$ 600,000	\$ 3,000,000
Funding Sources	2019	2020	2021	2022	2023	Total
Douglas County Shareback	\$ 435,000	\$ 435,000	\$ 435,000	\$ 435,000	\$ 435,000	\$ 2,175,000
Lottery Funds	165,000	165,000	165,000	165,000	165,000	825,000
Total Funding Source	\$ 600,000	\$ 600,000	\$ 600,000	\$ 600,000	\$ 600,000	\$ 3,000,000

Operational Impact

No additional revenues or expenditures are anticipated as a result of these projects.

PARKS AND RECREATION CAPITAL FUND PARKS & RECREATION DEPARTMENT PROJECTS & FUNDING SOURCES BY DEPARTMENT

Project Expenditures	2019	2020	2021	2022	2023	Total
Future Parks	\$ 200,000	\$ 3,400,000	\$ 200,000	\$ 3,400,000	\$ 200,000	\$ 7,400,000
Total Expenditures by Year	\$ 200,000	\$ 3,400,000	\$ 200,000	\$ 3,400,000	\$ 200,000	\$ 7,400,000
Project Funding Sources	2019	2020	2021	2022	2023	Total
Impact Fees	\$ 2019 200,000	2020 \$ 3,400,000	\$ 2021 200,000	2022 \$ 3,400,000	\$ 2023 200,000	\$ Total 7,400,000

Funding Source information is intended to identify the revenue that is planned to pay for the capital projects included. While additional revenue is anticipated to be received each year, this information identifies only what is necessary to fund the Capital Improvement Program.



MEADOWS FILING 18 PARK | 3D RENDERING

NORRIS DESIGN (Control | Desiring | Desiring



Rendering of the new neighborhood park planned for construction in 2018

Project Name Future Park Planning

Project Number: 75-21

Contact: Jeff Smullen, Assistant Director of Parks & Recreation 5 Year Historical Total \$ 2,200,000

Department: Parks & Recreation Department 2019-2023 Total 7,400,000

Category: Parks/Trails CIP Projection Type: New

CIP Project Total (2014-2023): \$ 9,600,000

Description and Justification

Useful Life: 50 Years

Parks and Recreation requests funding for future park planning that includes new community and neighborhood parks to maintain current levels of service with population growth. Sites currently available include Cobblestone Ranch, Terrain, Crystal Valley Ranch, or Castlewood Ranch Filing #2. The cost of the project is speculative and will be constructed based on approved funding when the project arises.

At this time, the project estimate is based on a nine-acre site. The Meadows 18 site that is being constructed in 2018 is the last neighborhood park brought on line and previous to that location was Wrangler Park in 2012. In addition to these neighborhood parks, the regional Philip S. Miller Park was opened in 2014. As the Town of Castle Rock continues to grow, so will the need for additional neighborhood parks. Planning for a new neighborhood park is expected to begin in 2019 with construction taking place in 2020. The priority for the project site will be based on community needs and will be determined at a future date. Current planning includes constructing a new neighborhood park every other year.

Expenditures			2019	2020		2021	2022		2023		Total
Park Design		\$	200,000	\$ -	\$	200,000	\$ -	\$	200,000	\$	600,000
Park Construction	ı		-	3,400,000		-	3,400,000		-		6,800,000
	Total Expenditures	\$	200,000	\$3,400,000	\$	200,000	\$3,400,000	\$	200,000	\$	7,400,000
Funding Sources			2019	2020		2021	2022		2023		Total
Impact Fees		\$	200,000	\$ 3,400,000	\$	200,000	\$ 3,400,000	\$	200,000	\$	7,400,000
	Total Funding Sources	ç	200,000	\$3,400,000	ć	200.000	\$3,400,000	ć	200,000	ċ	7,400,000

Operational Impact

Operational costs will increase after the completion of construction of each neighborhood park. These costs will be determined and incorporated into future planning in the General Fund once design of the park site is complete. Factors affecting operating costs include size of the park site, natural v. artificial turf, water features, and other elements related to the specific park site.

FIRE CAPITAL FUND FIRE DEPARTMENT

PROJECTS & FUNDING SOURCES BY DEPARTMENT

Project Expenditures	2019	2020	2021	2022	2023	Total
Emergency Vehicle Technician Equipment	\$ 75,000	\$ 20,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 125,000
Total Expenditures by Year	\$ 75,000	\$ 20,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 125,000
Project Funding Sources	2019	2020	2021	2022	2023	Total
Project Funding Sources Impact Fees	\$ 2019 75,000	\$ 2020 20,000	\$ 2021 10,000	\$ 2022 10,000	\$ 2023 10,000	\$ Total 125,000

Funding Source information is intended to identify the revenue that is planned to pay for the capital projects included. While additional revenue is anticipated to be received each year, this information identifies only what is necessary to fund the Capital Improvement Program.



Quint Ladder Truck from Fire Station 155

Project Name Emergency Vehicle Technician Equipment

Project Number: 70-30

Contact:Art Morales, Fire Chief5 Year Historical Total\$ 350,000Department:Fire Department2019-2023 Total125,000

Category: Equipment CIP Project Total (2014-2023): \$ 475,000

Type: New Useful Life: 5-10 years

Description and Justification

The Fire and Rescue Department requests funding for equipment needed to service fire apparatus. The Emergency Vehicle Technician position (EVT) was approved in 2016 to service fire department apparatus rather than outsourcing repair costs. In order to adequately maintain these heavy duty vehicles and to ensure employee safety, additional equipment is necessary. Requested equipment includes a vehicle lift, oil and vehicle fluid recovery systems, heavy duty tools associated with the repair and maintenance of fire pumps and aerial ladders.

The equipment being requested is intended to be able to be used in a mobile environment as well as in a fixed facility, and the life span varies by the type of equipment. These items meet the Council priority of providing outstanding public health and safety services.

As the department continues to increase the number of stations and apparatus based on the need to keep up with overall community growth, it is no longer cost effective to outsource all vehicle maintenance and repairs. With the addition of a new ladder truck and a new brush truck based on the need to maintain our current level of service in the growing southern portion of the Town, these costs are a direct result of that growth.

Expenditures	2019	2020	2021	2022	2023	Total
Equipment	\$ 75,000	\$ 20,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 125,000

	Total Expenditures	Ş	75,000	Ş	20,000	Ş	10,000	Ş	10,000	Ş	10,000	<u>\$</u>	125,000
Funding Sources			2019		2020		2021		2022		2023		Total
Impact Fees		\$	75,000	\$	20,000	\$	10,000	\$	10,000	\$	10,000	\$	125,000

Total Funding Sources \$	75,000 \$	20,000 \$	10,000 \$	10,000 \$	10,000 \$	125,000

Operational Impact

Operational impacts are typically minimal as these small improvements to existing infrastructure fall under existing maintenance operations budgets.

WATER FUND

CASTLE ROCK WATER

PROJECTS & FUNDING SOURCES BY DEPARTMENT

Project Expenditures	2019	2020	2021	2022	2023		Total
Water Supply Wells	\$ 4,413,007	\$ 2,225,000	\$ 225,000	\$ 2,225,000	\$ 225,000	\$	9,313,007
Water Treatment Plant Upgrades & Equipment	150,000	255,000	150,000	150,000	150,000		855,000
Water Storage (Tank) Projects	400,000	125,000	3,475,609	50,000	50,000		4,100,609
Pump & Distribution System Upgrades	925,000	375,000	375,000	300,000	2,300,000		4,275,000
Waterline Rehab/Replacement	725,000	1,243,000	894,000	300,000	576,000		3,738,000
Craig & Gould North Improvements	60,000	670,000	-	-	-		730,000
Security & SCADA System Improvements	50,000	50,000	25,000	25,000	25,000		175,000
General Facility Upgrades & Replacements	200,000	200,000	200,000	200,000	200,000		1,000,000
Administration & Customer Service Building	140,364	1,263,277	-	-	-		1,403,641
Machinery & Equipment	500,000	600,000	600,000	600,000	700,000		3,000,000
Total Expenditures by Year	\$ 7,563,371	\$ 7,006,277	\$ 5,944,609	\$ 3,850,000	\$4,226,000	\$ 2	28,590,257

Project Funding Sources	2019	2020	2021	2022	2023	Total
Metered Water Sales	\$ 2,435,000	\$ 4,563,000	\$ 1,919,000	\$ 3,250,000	\$ 1,250,000	\$ 13,417,000
System Development Fees	5,128,371	2,443,277	4,025,609	600,000	2,976,000	15,173,257
Total Funding Sources by Year	\$7,563,371	\$ 7,006,277	\$ 5,944,609	\$ 3,850,000	\$4,226,000	\$ 28,590,257

Funding Source information is intended to identify the revenue that is planned to pay for the capital projects included. While additional revenue is anticipated to be received each year, this information identifies only what is necessary to fund the Capital Improvement Program.



East Plum Creek west of Castle Rock

Project Name Water Supply Wells

Project Number: Multiple

Contact: Jeanne Stevens, Engineering Manager 5 Year Historical Total \$ 2,212,729

Department: Castle Rock Water 2019-2023 Total 9,313,007

Category: Infrastructure CIP Project Total (2014-2023): \$ 11,525,736

Type: Replacement Useful Life: 25 Years

Description and Justification

This project is intended to rehabilitate or replace existing Town of Castle Rock wells as they reach the end of their useful lives. Well 9 is no longer an active well facility. Plans are to demolish the building, disconnect services (power, telephone, etc.) and restore the site original condition. Variable Frequency Drive (VFD) replacement is intended to replace VFD's which are too old to get parts for, placing new VFD and other electrical components and controls outside of the building, away from the water pipe. As existing wells deteriorate, they need to be rehabilitated or replaced. Replacement wells generally provide the same yield as a new well, but at a fraction of the cost.

The replacement schedule is based on an assumed 25-year life from each well and a replacement will be drilled at the end of the 25-year period. Unused facilities are a liability from an insurance standpoint. The Colorado Department of Public Health is also requiring that unused wells be formally abandoned. As existing wells deteriorate, they need to be rehabilitated or replaced.

The Laterns Wells 1500 GPM is to ensure the reliability of supply due to the growth in the Laterns community. The funding for this project is coming from System Development Fees due to growth in the area and will help supply the demand of the area.

These projects help Castle Rock Water meet the priority of providing high quality water service to Town residents and businesses.

Expenditures		2019	2020	2021		2022	2023	Total
Water Rights Purchase	\$	250,000	\$ -	\$ -	\$	-	\$ -	\$ 250,000
Well Equipment and Replacement		100,000	100,000	100,000		100,000	100,000	500,000
Laterns Wells 1500 GPM	:	3,938,007	-	-		-	-	3,938,007
VFD Replacement (Well/PS/Tmt Plant)		125,000	125,000	125,000		125,000	125,000	625,000
Well Redrill		-	2,000,000	-	:	2,000,000	-	4,000,000
Total Expenditures	\$4	4,413,007	\$ 2,225,000	\$ 225,000	\$2	2,225,000	\$ 225,000	\$ 9,313,007
Funding Sources		2019	2020	2021		2022	2023	Total
Metered Water Sales	\$	475,000	\$ 2,225,000	\$ 225,000	\$ 2	2,225,000	\$ 225,000	\$ 5,375,000
System Development Fees		3,938,007	-	-		-	-	3,938,007
Total Funding Sources	\$ 4	4,413,007	\$ 2,225,000	\$ 225,000	\$2	2,225,000	\$ 225,000	\$ 9,313,007

Operational Impact

Costs will vary for each well depending on the amount and type of rehabilitation, and the depth of the well and will be determined upon project completion and incorporated into operational budgets at that time.

Project Name Water Treatment Plant Upgrades & Equipment

Project Number: Multiple

Contact: Jeanne Stevens, Engineering Manager 5 Year Historical Total \$ 150,000

Department: Castle Rock Water 2019-2023 Total 855,000

Category: Infrastructure CIP Project Total (2014-2023): \$ 1,005,000

Type: Upgrade Useful Life: 50 Years

Description and Justification

This project will provide for miscellaneous improvements at existing Water Treatment Plants (WTP). There are five active water treatment plants in Castle Rock. Examples of specific upgrades include pipe gallery painting, HVAC and cooling unit replacements, door repair and replacement, basins repairs, instrumentation, alarm upgrades, and safety improvements.

The equipment replacement project will replace existing electrical and/or mechanical equipment associated with water treatment facilities. These plants are necessary to filter deep aquifer groundwater and one facility for purifying alluvial well water. These facilities require periodic upgrades to instrumentation, controls, and other small upgrades. Electrical and mechanical equipment need to be replaced as equipment reaches the end of its useful life. A preventive maintenance program associated with asset management will be used to determine replacement schedules based on the type of equipment, service duty and operating conditions. These projects help Castle Rock Water meet the priority of providing high quality water service to Town residents and businesses.

Expenditures	2019	2020	2021	2022	2023	Total
WTP Facility Upgrades	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 250,000
WTP Equipment Replacement	100,000	100,000	100,000	100,000	100,000	500,000
WTP Media Replacement	-	105,000	-	-	-	105,000
Total Expenditures	\$ 150,000	\$ 255,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 855,000
Funding Sources	2019	2020	2021	2022	2023	Total
Funding Sources Metered Water Sales	\$ 2019 150,000	\$ 2020 255,000	\$ 2021 150,000	\$ 2022 150,000	\$ 2023 150,000	\$ Total 855,000
	\$ 	\$ 	\$ 	\$ 	\$ 	\$

Operational Impact

There is no operational impact for this project.

Project Name Water Storage (Tank) Projects

Project Number: Multiple

Contact: Jeanne Stevens, Engineering Manager 5 Year Historical Total \$ 247,430

Department: Castle Rock Water 2019-2023 Total 4,100,609

Category: Infrastructure CIP Project Total (2014-2023): \$ 4,348,039

Type: Repair Useful Life: 50 Years

Description and Justification

The tank rehabilitation project will facilitate structural and/or site modifications to existing tanks to ensure reliability and tank security as needed. Known projects include adding stairs to tanks 3, 4, and 16A.

The Liberty Village Yellow Zone Tank project, which is anticipated for 2021, includes the construction of a two million gallon tank to serve Liberty Village/Cobblestone Ranch Yellow Zone. As growth in the service area increases, demand will exceed the available storage in the Red Zone tanks that currently serve the area. This tank will be dedicated storage for maximum day demands and fire flow in the service area. Water storage zones are based on elevation with about every 288 feet of elevation being a different zone.

The Electric Actuated Valves project is intended to add electric actuated valves to water storage tanks. Electric actuated valves can be remotely operated from a central SCADA location. Given the remote location of many of the tanks, this allows for quicker response to system upsets or vulnerabilities. These projects help Castle Rock Water meet the priority of providing high quality water service to Town residents and businesses. The Tank 6B demolition project will include the demolition of two water tanks. Tank 6B has structural concrete issues and has been taken out of service. Plans are to demolish the tank and restore the location.

Expenditures	2019	2020		2021	2022	2023	Total
Tank Rehabilitation	\$ 50,000	\$ 50,000	\$	50,000	\$ 50,000	\$ 50,000	\$ 250,000
Liberty Village Yellow Zone Tank	-	-	3	,425,609	-	-	3,425,609
Electric Actuated Valves at Tanks	75,000	75,000		-	-	-	150,000
Tank Mixers	25,000	-		-	-	-	25,000
Tank 6B Demolition	250,000	-		-	-	-	250,000
Total Expenditures	\$ 400,000	\$ 125,000	\$3	,475,609	\$ 50,000	\$ 50,000	\$ 4,100,609
Funding Sources	2019	2020		2021	2022	2023	Total
Metered Water Sales	\$ 400,000	\$ 125,000	\$	50,000	\$ 50,000	\$ 50,000	\$ 675,000
System Development Fees	-	-	3	,425,609	-	-	3,425,609
Total Funding Sources	\$ 400,000	\$ 125,000	\$3	,475,609	\$ 50,000	\$ 50,000	\$ 4,100,609

Operational Impact

Future repair and maintenance of tanks is ongoing and is included within currently budgeted maintenance and personnel costs.

Project Name Pump & Distribution System Upgrades

Project Number: Multiple

> 5 Year Historical Total \$ Contact: Jeanne Stevens, Engineering Manager 53,315

Department: Castle Rock Water 2019-2023 Total 4,275,000

Category: Equipment CIP Project Total (2014-2023): \$ 4,328,315

Type: Replacement Useful Life: 25 years

Description and Justification

The Town has nine active pump stations that are over 10 years old. Pump stations are critical to providing water to customers and for moving water around Town. Although a pump station facility has an overall 50 year service life, the individual components (pumps, motors, flow meters, valves, etc.) need replacement at shorter intervals. Water Infrastucure and Supply Effeiceincy (WISE) deliveries are expected to increase over time as more renewable water sources are added. Modeling indicates that to accommodate and deliver WISE water around Town, future pumping capacity in the Red Zone will have to be increased to move the water to distribution and storage.

The Milestone Pump Station pressure reducing valve (PRV) project will upgrade a PRV at the Milestone Pump Station. A PRV vault would provide some redundancy to the distribution system and also improve water quality in this older part of Town. The distribution system upgrades project will accomplish future year water transmission and distribution facility upgrades. Valves, pressure reducing valves and vaults, and other accessories often require repair and/or replacement before water main pipes do. Such items must be maintained in good operable condition to ensure reliable water transmission and distribution. The Diamond Ridge Pump Station Control Valve upgrade is required to control WISE deliveries.

These projects help Castle Rock Water meet the priority of providing high quality water service to Town residents and businesses.

Town of Castle Rock 2019

Expenditures	2019	2020	2021	2022	2023	Total
Pump Station Equipment Replacement	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 250,000
Red Zone Pumping Upsize	550,000	-	-	-	1,000,000	1,550,000
Milestone Pump Station PRV Valve	-	75,000	-	-	-	75,000
Green Zone Pumping Upgrades	-	-	-	-	1,000,000	1,000,000
Well 9 Demolition (Kinner St)	75,000	-	-	-	-	75,000
Distribution System Upgrades	250,000	250,000	250,000	250,000	250,000	1,250,000
Diamond Ridge Pump Station Control Valve	-	-	75,000	-	-	75,000
Total Expenditures	\$ 925,000	\$ 375,000	\$ 375,000	\$ 300,000	\$ 2,300,000	\$ 4,275,000
Funding Sources	2019	2020	2021	2022	2023	Total
Metered Water Sales	\$ 375,000	\$ 375,000	\$ 375,000	\$ 300,000	\$ 300,000	\$ 1,725,000
System Development Fees	550,000	-	-	-	2,000,000	2,550,000
Total Funding Sources	\$ 925,000	\$ 375,000	\$ 375,000	\$ 300,000	\$ 2,300,000	\$ 4,275,000

Operational Impact

Future repair and maintenance of pump station equipment is ongoing and is included within the Pump Station Equipment Replacement project. A single pump or motor could exceed \$25,000. Red Zone Pumping Upsize Estimated operating costs are \$30,074 annually and is incorporated into the Water Fund Operations Budget and paid for with System Development Fees as part of the Town's growth.

Project Name Waterline Rehab/Replacement

Project Number: Multiple

Contact: Jeanne Stevens, Engineering Manager 5 Year Historical Total \$ 377,762

Department: Castle Rock Water 2019-2023 Total 3,738,000

Category: Infrastructure CIP Project Total (2014-2023): \$ 4,115,762

Type: Repair Useful Life: 50 Years

Description and Justification

This project is intended to rehabilitate or replace existing Town of Castle Rock waterlines as they reach the end of their useful lives. The Glovers project is a phased approach to replace aging waterline in the Glovers neighborhood. Plans include the replacement of approximately 10,500 linear feet of eight inch watermains. The Crowfoot project will replace approximately 725 linear feet of Purple Zone transmission line in Crowfoot Valley Road from Tower Road to the Diamond Ridge Pump Station. The transmission line is undersized and must be upsized from 16 inch to 20 inch to move future WISE water supplies.

The Highway 85 projects includes the construction of a transmission line at Highway 85 needed to move WISE/Dominion flows. The Tank 11 to Pine Canyon project constructs a water line from the tank to the development. These projects help Castle Rock Water meet the priority of providing high quality water service to Town residents and businesses. The Crowfoot project will replace approximately 725 linear feet of Purple Zone transmission line in Crowfoot Valley Road from Tower Rd to the Diamond Ridge Pump Station. The transmission line is undersized and must be upsized from 16 inch to 20 inch to to move future WISE water supplies.

Expenditures	2019		2020	2021	2022	2023	Total
Waterline Rehab/Replacement	\$ 300,000	\$	300,000	\$ 300,000	\$ 300,000	\$ 300,000	\$ 1,500,000
Glovers Waterline Replacement	425,000		363,000	594,000	-	-	1,382,000
Tank 11 to Pine Canyon Water Line	-		388,000	-	-	-	388,000
Liggett Road Upsize	-		-	-	-	126,000	126,000
Crowfoot Purple Line Upsize	-		192,000	-	-	-	192,000
5th St. Red Zone Connection	-		-	-	-	150,000	150,000
Total Expenditures	\$ 725,000	\$:	L,243,000	\$ 894,000	\$ 300,000	\$ 576,000	\$ 3,738,000
Funding Sources	2019		2020	2021	2022	2023	Total
Metered Water Sales	\$ 725,000	\$	663,000	\$ 894,000	\$ 300,000	\$ 300,000	\$ 2,882,000
System Development Fees	-		580,000	-	-	276,000	856,000
Total Funding Sources	\$ 725,000	\$:	L,243,000	\$ 894,000	\$ 300,000	\$ 576,000	\$ 3,738,000

Operational Impact

There are no additional future operating expenditures associated with rehabilitation/replacement.

Project Name Craig & Gould North Improvements

Project Number: 76-51

Contact: Jeanne Stevens, Engineering Manager 5 Year Historical Total \$ 126,157

Department: Castle Rock Water 2019-2023 Total 730,000

Category: Infrastructure CIP Project Total (2014-2023): \$ 856,157

Type: Upgrade Useful Life: 20 years

Description and Justification

This project would accomplish infrastructure improvements in Craig and Gould North neighborhood. Existing water lines are undersized and greater than 70 years old. This project will be coordinated with Public Works and Stormwater for a comprehensive infrastructure improvement including street improvements and storm sewer improvements. In-house resources will be used as much as possible to reduce the cost of this project and is reflected in the price below. This project helps Castle Rock Water meet the priority of providing high quality water service to Town residents and businesses.

Expenditures		20	19	2020	2021		2022		2023		Total
Design	\$	6	50,000	\$ -	\$	-	\$	-	\$	-	\$ 60,000
Construction			-	670,000		-		-		-	670,000
Total E	Expenditures \$	6	50,000	\$ 670,000	\$	-	\$	-	\$	-	\$ 730,000
Funding Sources		20	19	2020	2021		2022		2023		Total
Metered Water Sales	\$	6	50,000	\$ 670,000	\$ 	-	\$ 	-	\$	-	\$ 730,000
Metered Water Sales	\$	6	50,000	\$ 670,000	\$ 	-	\$ 	-	\$	-	\$ 730,000

Operational Impact

There are no additional future operating expenditures associated with Craig and Gould North Improvements.

Project Name Security & SCADA System Improvements

Project Number: Multiple

Contact: Tim Friday, Assistant Castle Rock Director 5 Year Historical Total \$ 214,338

Department: Castle Rock Water 2019-2023 Total 175,000

Category: Building
Type: Upgrade
Useful Life: 20 years

CIP Project Total (2014-2023): \$ 389,338

Description and Justification

This project is intended to accomplish miscellaneous small projects to increase facility security in accordance with the Facilities Vulnerability Assessment and accomplish future year water transmission and distribution facility upgrades. Projects include electronic access control at all water facilities through installation of card readers or replacement of mechanical locks with electronic locks operated by programmable keys. Other projects include repair and replacement of fencing and installation of secure gates. Future year projects that are identified in the 2017 Water Master Plan will need to be implemented in order to ensure distribution system reliability and capacity to deliver water in growing areas. Planned improvements include the automation of several pressure reducing valve stations identified in the 2017 Water Master Plan. Most of this work will be performed by Castle Rock Water staff. These projects help Castle Rock Water meet the priority of providing high quality water service to Town residents and businesses.

Expenditures	2019	2020	2021	2022	2023	 Total
Security Improvements	\$ 50,000	\$ 50,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 175,000

	Total Expenditures	\$ 50,000	\$ 50,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 175,000
Funding Sources		2019	2020	2021	2022	2023	Total
Metered Water Sales	;	\$ 50,000	\$ 50,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 175,000
To	tal Funding Sources	\$ 50,000	\$ 50,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 175,000

Operational Impact

There are no additional future operating expenditures associated with Security and SCADA System Improvements.

Project Name General Facility Upgrades & Replacements

Project Number: Multiple

Category:

Contact: Tim Friday, Assistant Castle Rock Water Director 5 Year Historical Total \$ 448,142

CIP Project Total (2014-2023): \$

1,448,142

Department: Castle Rock Water 2019-2023 Total 1,000,000

Type: Upgrade Useful Life: 20 years

Equipment

Description and Justification

This project is intended to upgrade an existing booster pump station, pressure reducing valves, and other improvements to related water facilities. The facilities capital replacements project will facilitate maintaining building functionality by making needed updates and replacing portions of various facilities.

The Town operates 5 water treatment plants, many pump stations, PRVs, buildings, and office space. All of these facilities require maintenance and replacements of various items and equipment. This project also includes improvements to well building #204 which include replacing outdated equipment and electrical components. Small projects to improve the functionality and/or appearance of Town facilities are necessary. These projects include drainage, landscaping, and site improvements at existing pump stations. As buildings age components will require replacement. As a formal asset management program develops, capital replacements will become well defined. This project is created to accommodate those needs. The existing access to many sites is unimproved or gravel access that requires extension maintenance, particularly during the winter. Snowplowing and access, in general, will be improved by paving and otherwise improving site access. These projects help Castle Rock Water meet the priority of providing high quality water service to Town residents and businesses.

The paving project will pave the access drives to pump stations/tanks/well sites and other facilities.

Expenditures		2019	2020	2021	2022	2023	Total
General Facility Upgrades	\$	75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 375,000
Facilities Capital Replacements		75,000	75,000	75,000	75,000	75,000	375,000
Facilities Paving		50,000	50,000	50,000	50,000	50,000	250,000
Total Expenditure	s \$	200,000	\$ 200,000	\$ 200,000	\$ 200,000	\$ 200,000	\$ 1,000,000
Funding Sources		2019	2020	2021	 2022	2023	Total
Funding Sources Metered Water Sales	\$	2019 200,000	\$ 2020 200,000	\$ 2021 200,000	\$ 2022 200,000	\$ 2023 200,000	\$ Total 1,000,000
	\$		\$ 	\$ 	\$ 	\$ 	\$

Operational Impact

There are no additional future operating expenditures associated with rehabilitation/replacement.

Project Name Administration & Customer Service Building

Project Number: 77-57

Contact: Tim Friday, Assistant Castle Rock Water Director 5 Year Historical Total \$ -

Department: Castle Rock Water 2019-2023 Total 1,403,641

Category: Building CIP Project Total (2014-2023): \$ 1,403,641

Type: New Useful Life: 50 years

Description and Justification

This project accommodates construction of a new Administration and Customer Service Building for Castle Rock Water. The existing Kellogg Facility will be repurposed for staff currently housed in trailers. This building will accommodate existing and future Administration and Customer Service staff within Castle Rock Water. The Admin/Customer Service Team currently is short of space by approximately 3,000 square feet. The new facility will be designed and constructed to meet the needs of the department through buildout. A site assessment was conducted in 2013 that details existing and future conditions and identifies space needs for Castle Rock Water. Construction is targeted for 2020 with funding split across the four Castle Rock Water enterprise funds based upon staffing proportions. The Water Fund's portion of the 2020 funding will be a drawdown of reserves accumulated in prior years through system development fees and rates revenues. This project helps Castle Rock Water meet the priority of providing high quality water service to Town residents and businesses.

<u>Design</u>	Construction
\$140,364	\$1,263,277
\$62,794	\$565,146
\$64,372	\$579,352
\$58,831	\$529,477
	\$140,364 \$62,794 \$64,372

Expenditures		2019	2020		2021			2022			2023			Total
Construction	\$	-	\$ 1,263,277	\$		-	\$		-	\$		-	\$	1,263,277
Design		140,364	-			-			-			-		140,364
Total Expenditures	\$	140,364	\$ 1,263,277	\$		-	\$		-	\$		_	\$	1,403,641
Funding Sources		2019	2020		2021			2022			2023			Total
System Development Fees	\$	140,364	\$ 1,263,277	\$		-	\$		-	\$		-	\$	1,403,641
	_			_										
Total Funding Sources	Ş	140,364	\$ 1,263,277	\$		-	Ş		-	Ş		-	Ş	1,403,641

Operational Impact

There are general operations expenditures of approximately \$30,000 per year. The Water fund's portion is \$12,119 per year, the Water Resources fund's portion is \$5,689 per year, the Stormwater fund's portion is \$5,510 per year, and the Wastewater fund's portion is \$6,682 per year. These costs will be incorporated into operating budgets in the future.

Project Name Machinery & Equipment

Project Number: 70-30

Contact: Jeanne Stevens, Engineering Manager 5 Year Historical Total \$ 75,000

Department: Castle Rock Water 2019-2023 Total 3,000,000
Category: Infrastructure CIP Project Total (2014-2023): \$ 3,075,000

Type: Upgrade Useful Life: Variable

Description and Justification

The purpose of these funds is to accommodate machinery and equipment purchases needed for items that have yet be identified. These funds provide flexibility to accommodate these purchases as needed.

Expenditures	2019	2020	2021	2022	2023	Total
Machinery and Equipment	\$ 500,000	\$ 600,000	\$ 600,000	\$ 600,000	\$ 700,000	\$ 3,000,000

Total Expenditures	\$ 500,000	\$ 600,000	\$ 600,000	\$ 600,000	\$ 700,000	\$ 3,000,000
Funding Sources	2019	2020	2021	2022	2023	Total
System Development Fees	\$ 500,000	\$ 600,000	\$ 600,000	\$ 600,000	\$ 700,000	\$ 3,000,000

Total Funding Sources \$ 500,000 \$ 600,000 \$ 600,000 \$ 700,000 \$ 3,000,000

Operational Impact

Operational impacts are typically minimal as these small improvements to existing infrastructure fall under existing maintenance operations budgets.

WATER RESOURCES FUND CASTLE ROCK WATER PROJECTS & FUNDING SOURCES BY DEPARTMENT

Project Expenditures	2019	2020	2021	2022	2023	Total
WISE Project	\$ 6,170,000	\$ 4,050,000	\$5,023,151	\$2,324,351	\$ 9,527,551	\$ 27,095,053
Chatfield Reallocation Project	4,358,580	2,000,752	1,098,661	1,037,627	1,037,621	9,533,241
Alternative Source of Supply Project	880,000	6,755,850	3,755,850	-	-	11,391,700
Administration & Customer Service Building	62,794	565,146	-	-	-	627,940
Plum Creek Diversion	5,523,994	-	-	-	-	5,523,994
PCWPF Expansion	14,000,000	-	-	400,000	-	14,400,000
Newlin Gulch	5,455,300	5,061,920	-	-	-	10,517,220
Pipeline South to PCWPF	390,000	-	-	-	-	390,000
Stream Gages	250,000	-	_	-	-	250,000
Total Expenditures by Year	\$ 37,090,668	\$18,433,668	\$9,877,662	\$3,761,978	\$10,565,172	\$ 79,729,148

Project Funding Sources	2019	2020	2021	2022	2023	Total
System Development Fees	\$ 22,279,518	\$11,286,259	\$5,926,597	\$2,257,187	\$ 6,339,103	\$ 48,088,665
Water Resources Fees	14,811,150	7,147,409	3,951,065	1,504,791	4,226,069	31,640,483
Total Funding Sources by Year	\$ 37,090,668	\$18,433,668	\$9,877,662	\$3,761,978	\$10,565,172	\$ 79,729,148

Funding Source information is intended to identify the revenue that is planned to pay for the capital projects included. While additional revenue is anticipated to be received each year, this information identifies only what is necessary to fund the Capital Improvement Program.



Ribbon cutting for WISE Water

Town of Castle Rock 2019

Project Name WISE Project

Project Number: 77-72

Contact: Matt Benak, Water Resources Manager 5 Year Historical Total \$ 20,362,890

Department: Castle Rock Water 2019-2023 Total 27,095,053

Category: Water Rights CIP Project Total (2014-2023): \$ 47,457,943

Type: New

Useful Life: Perpetual/50 years

Description and Justification

This project is a part of the Town's Strategic goal to transition to a 75% renewable water supply for the future. As part of this strategy, sustainable water supplies must be imported to the Town with a focus on proximity and feasibility in order to help meet this goal. This project includes securing 1,000 acre-feet (AF) of water on average from Denver and Aurora and will build infrastructure necessary to move water from the Peter Binney Water Purification Facility located near Aurora Reservoir to the Town of Castle Rock. This part of the project includes clean-up of title documents related to the existing infrastructure purchased as part of this project in 2015, additional pipeline connections, and infrastructure expansion through Parker Water & Sanitation District's (PWSD) system. This five-year plan also includes the addition of WISE (Water Infrastructure Supply Efficiency) water that is currently under option by Douglas County and Stonegate Village Metropolitan District WISE water that is being marketed for sale. Funds are also included for the purchase from PWSD of additional treatment capacity in Rueter Hess Reservoir (RHWTP).

Expenditures	2019	2020	2021	2022	2023	Total
ECCV Title Cleanup	\$ 120,000	\$ -	\$ -	\$ -	\$ -	\$ 120,000
Binney Connection	3,400,000	-	-	-	-	3,400,000
WISE Project Subscription Fees	150,000	150,000	-	-	-	300,000
WISE Local Infrastructure (PWSD Expsn)	-	3,900,000	3,900,000	1,201,200	4,404,400	13,405,600
WISE Option Agreement	2,500,000	-	1,123,151	1,123,151	1,123,151	5,869,453
Stonegate WISE Water	-	-	-	-	-	-
Purchase Capacity in PWSD RHWTP	-	-	-	-	4,000,000	4,000,000
Total Expenditures	\$ 6,170,000	\$4,050,000	\$5,023,151	\$2,324,351	\$9,527,551	\$ 27,095,053
Funding Sources	2019	2020	2021	2022	2023	Total
System Development Fees	\$ 3,702,000	\$2,430,000	\$3,013,891	\$1,394,611	\$5,716,531	\$ 16,257,032
Water Resources Fees	2,468,000	1,620,000	2,009,260	929,740	3,811,020	10,838,021
Total Funding Sources	\$ 6,170,000	\$4,050,000	\$5,023,151	\$2,324,351	\$9,527,551	\$ 27,095,053

Operational Impact

Operating costs for the WISE project will be variable based on actual annual water purchased and paid by rates and fees.

Preliminary estimates suggest that O&M costs will be approximately \$1.5 million each year once the permanent delivery schedule begins in 2021. WISE water is set to be delivered to the Town in 2018.

Project Name Chatfield Reallocation Project

Project Number: 77-29

Contact: Matt Benak, Water Resources Manager 5 Year Historical Total \$ 948,647

Department: Castle Rock Water 2019-2023 Total 9,533,241

Category: Water Rights CIP Project Total (2014-2023): \$ 10,481,888

Type: New Useful Life: Perpetual

Description and Justification

This project will fund the participation and maintenance costs of the Town's reserved storage space (374 acre-feet) in the expanded Chatfield Reservoir. The Town plans to increase its participation rate to 2,000 acre-feet over the next 13 to 17 years. This project has been identified as a critical component of the Town's Renewable Water Implementation Program, which includes maximizing the Town's existing supplies and finding the most efficient solutions to meet the Town's long term renewable water supply goals. Specifically, this storage space will allow enhanced management capabilities for the Town's Plum Creek Water rights, including treated return flows in the Plum Creek basin, and native rights along Plum Creek and the South Platte River. This project is funded in partnership with multiple entities and managed by the Chatfield Reservoir Mitigation Company (CRMC). The future goal of the Town is to provide 75% renewable water supply annually to its customers, this project will be a key component to achieve that goal.

Expenditures	2019	2020	2021	2022	2023	Total
Additional Storage	\$ 875,000	\$ 1,948,442	\$ 1,037,621	\$ 1,037,627	\$ 1,037,621	\$ 5,936,311
CRMC Annual Assessment	43,580	52,310	61,040	-	-	156,930
Nevada Ditch Water Rights	3,340,000	-	-	-	-	3,340,000
Chatfield Raw Pipeline and Pump Station	100,000	-	-	-	-	100,000
Total Expenditures	\$ 4,358,580	\$ 2,000,752	\$ 1,098,661	\$ 1,037,627	\$ 1,037,621	\$ 9,533,241
-						
Funding Sources	2019	2020	2021	2022	2023	Total
Funding Sources System Development Fees	2019 \$ 2,615,148	2020 \$ 1,200,451	2021 \$ 659,197	2022 \$ 622,576	2023 \$ 622,573	\$ Total 5,719,945
						\$

Operational Impact

Future operating and maintenance expenses of the reservoir are anticipated to be approximately \$100,000 a year beginning in 2021 and are incorporated into the Water Resources Fund 2018-2020 Balanced Financial Plan and is to be funded by rates.

Project Name Alternative Source of Supply Project

Project Number: 77-30

Contact: Matt Benak, Water Resources Manager 5 Year Historical Total \$ 8,713,987

Department: Castle Rock Water 2019-2023 Total 11,391,700

Category: Water Rights CIP Project Total (2014-2023): \$ 20,105,687

Type: New

Type: New Useful Life: 50 years

Description and Justification

This project entails importing an additional 2,500 acre-feet of renewable and fully consumable water from the South Platte River basin, northeast of the Denver metro area. It includes the purchase of approximately 2,500 acre-feet of renewable surface water rights and all legal costs associated with enabling the water to be used in Castle Rock. It includes legal and engineering due diligence, construction of a well field on the Box Elder property (located in Weld County), pumping systems, and raw water transmission pipelines. This project also includes obtaining firm capacity in East Cherry Creek Valley (ECCV) Water & Sanitation District's Northern Pipeline plus pump stations and treatment capacity in ECCV's water treatment plant. The Town owns substantial Denver Basin groundwater supplies and a limited amount of surface water on Plum Creek. However, as the demand for water increases along with the Town population, other supplies will need to be secured to meet that demand. Sustainable water supplies must be imported to the Town with a focus on proximity and feasibility in order to meet the goal of 75% renewable water.

Expenditures	2019	2020	2021	2022	20	23	Total
Water Rights Acquisition	\$ -	\$ 3,755,850	\$ 3,755,850	\$ -	\$	-	\$ 7,511,700
Box Elder Creek Project Due Diligence	300,000	-	-	-		-	300,000
Demolish Structures on Box Elder Property	500,000	-	-	-		-	500,000
Abandon Existing Wells (Box Elder)	80,000	-	-	-		-	80,000
Participation in local entity's reservoir system	-	3,000,000	-	-		-	3,000,000
Total Expenditures	\$ 880,000	\$ 6,755,850	\$ 3,755,850	\$ -	\$	-	\$ 11,391,700

Funding Sources	2019	2020	2021	2022	2023	Total
System Development Fees	\$ 528,000	\$ 4,053,510	\$ 2,253,510	\$.	- \$	- \$ 6,835,020
Water Resources Fees	352,000	2,702,340	1,502,340		-	- 4,556,680
Total Funding Sources	\$ 880,000	\$ 6,755,850	\$ 3,755,850	\$.	- \$	- \$ 11,391,700

Operational Impact

Operating costs are not currently estimated as infrastructure to move the water is not set to begin until year 2030. The operational costs will be funded by rates.

Project Name Administration & Customer Service Building

Project Number: 77-57

Contact: Tim Friday, Assistant Castle Rock Water Director 5 Year Historical Total \$

Department: Castle Rock Water 2019-2023 Total 627,940

Category: Building CIP Project Total (2014-2023): \$ 627,940

Type: New Useful Life: 50 years

Description and Justification

This project accommodates construction of a new Administration and Customer Service Building for Castle Rock Water. The existing Kellogg Facility will be repurposed for staff currently housed in trailers. This building will accommodate existing and future Administration and Customer Service staff within Castle Rock Water. The Administration Customer Service Team currently is short of space by approximately 3,000 square feet. The new facility will be designed and constructed to meet the needs of the department through buildout. A site assessment was conducted in 2013 that details existing and future conditions and identifies space needs for Castle Rock Water. Construction is targeted for 2020 with funding split across the four Castle Rock Water enterprise funds based upon staffing proportions. The Water Resources Fund's portion of 2020 funding will be a drawdown of reserves accumulated in prior years and departmentally designated plus system development fees and rates revenues. This project helps Castle Rock Water meet the priority of providing high quality water service to Town residents and businesses.

Design	Construction
\$140,364	\$1,263,277
\$62,794	\$565,146
\$64,372	\$579,352
\$58,831	\$529,477
	\$140,364 \$62,794 \$64,372

Expenditures		2019	2020	2021			2022		2023		Total
Construction	\$	-	\$ 565,146	\$	-	\$		-	\$	-	\$ 565,146
Design		62,794	-		-			-		-	62,794
Total Expenditures	\$	62,794	\$ 565,146	\$	-	\$		-	\$	-	\$ 627,940
Funding Sources		2019	2020	2021			2022		2023		Total
System Development Fees	\$	62,794	\$ 565,146	\$	-	\$		-	\$	-	\$ 627,940
	_		 			_					
Total Funding Sources	\$	62,794	\$ 565,146	\$	-	\$		-	\$	-	\$ 627,940

Operational Impact

There are general operations expenditures of approximately \$30,000 per year. The Water fund's portion is \$12,119 per year, the Water Resources fund's portion is \$5,689 per year, the Stormwater fund's portion is \$5,510 per year, and the Wastewater fund's portion is \$6,682 per year.

Project Name Plum Creek Diversion

Project Number: 77-54

Category:

Contact: Matt Benak, Water Resources Manager 5 Year Historical Total \$ 18,658,824

Department: Castle Rock Water 2019-2023 Total 5,523,994 CIP Project Total (2014-2023): \$ 24,182,818

Type: New Useful Life: 50 Years

Infrastructure

Description and Justification

The Town has more water rights along Plum Creek than it can currently capture through the existing alluvial well and East Plum Creek diversion infrastructure. The future goal of the Town is to provide 75% renewable water supply annually to its customers and this project will be a key component to achieve that goal. Implementation of this project would allow the Town to continue towards the renewable water goal by capturing existing water rights on Plum Creek and taking full advantage of its junior water rights during times of high stream flow. This project includes the installation of a new pumping station at the Plum Creek Diversion that was purchased in 2017, improvements to Castle Rock Reservoir No. 1 (also purchased in 2017), and the construction of an approximate six-mile, 30-inch raw water pipeline that will move the water south to Castle Rock to be treated at the Plum Creek Water Purification Facility (PCWPF).

Expenditures	2019	2020		2021		2022		2023		Total
Plum Creek Diversion Structure and Pump Statio	\$ 3,000,000	\$	-	\$	-	\$	-	\$	-	\$ 3,000,000
Raw Water Pipeline from Diversion to PCWPF	-		-		-		-		-	-
Castle Rock Reservoir No. 1 Improvements	2,523,994		-		-		-		-	 2,523,994
Total Expenditures	\$ 5,523,994	\$	-	\$	-	\$	-	\$	-	\$ 5,523,994
Funding Sources	2019	2020		2021		2022		2023		Total
Funding Sources System Development Fees	\$ 2019 3,314,396	 2020	_	\$ 2021	_	\$ 2022	_	\$ 2023	-	\$ Total 3,314,396
	\$ 	 2020	- -	\$ 2021	<u>-</u> -	\$ 2022	- -	\$ 2023	- -	\$

Operational Impact

Future operating costs are estimated at \$125,000 per household per year beginning in 2020, these costs will be included in operating budgets for Water Resources funds.

Project Name PCWPF Expansion

Project Number: 77-75

Contact: Matt Benak, Water Resources Manager 5 Year Historical Total \$ 17,689,174

Department: Castle Rock Water 2019-2023 Total 14,400,000

Category: Infrastructure CIP Project Total (2014-2023): \$ 32,089,174

Type: New Useful Life: 50 Years

Description and Justification

Advanced treatment processes are necessary for the effective treatment of the Town's Plum Creek surface water supplies. The future goal of the Town is to provide 75% renewable water supply annually to its customers and this project will be a key component to achieve that goal. This project will add advanced treatment processes (ozonation, biologically activated filtration, and granular activated carbon) to the Plum Creek Water Purification Facility (PCWPF), giving the Town the ability to adequately treat additional Plum Creek surface water supplies.

Expenditures	2019	2020		2021		2022	2023		Total
Membrane Rack Remove and Replace	\$ -	\$	-	\$	-	\$ 400,000	\$	-	\$ 400,000
Advanced Treatment Facility (Phase 1)	14,000,000		-		-	-		-	 14,000,000
Total Expenditures	\$ 14,000,000	\$	-	\$	-	\$ 400,000	\$	-	\$ 14,400,000
Funding Sources	2019	2020		2021		2022	2023		Total
System Development Fees	\$ 8,400,000	\$	-	\$	-	\$ 240,000	\$	-	\$ 8,640,000
System Development Fees Water Resources Fees	\$ 8,400,000 5,600,000	\$	-	\$	-	\$ 240,000 160,000	\$	-	\$ 8,640,000 5,760,000

Operational Impact

Estimated Operation and Maintenance costs for advanced treatment processes are estimated as \$820,000 in 2019 and \$1.1 million in 2020 and beyond and are incorporated in the Water Resources fund's operations budget.

Project Name Newlin Gulch

Project Number: 78-04

Contact: Matt Benak, Water Resources Manager 5 Year Historical Total \$ 2,555,300

Department: Castle Rock Water 2019-2023 Total 10,517,220

Category: Infrastructure CIP Project Total (2014-2023): \$ 13,072,520

Type: New Useful Life: 50 Years

Description and Justification

This project involves the construction of a pipeline (discharging water generally in the Newlin Gulch drainage) and pumping infrastructure to pump the Town's fully reusable, treated water from PCWRA to Rueter-Hess Reservoir. The Town owns substantial Denver Basin groundwater supplies and a limited amount of surface water on Plum Creek. However, as the demand for water increases along with the Town population, other supplies will need to be secured to meet that demand. Sustainable water supplies must be imported to the Town with a focus on proximity and feasibility.

Expenditures	2019	2020	20	021	2022	2023		Total
Newlin Gulch Pipeline and Pump Station	\$ 5,455,300	\$ -	\$	-	\$ -	\$	-	\$ 5,455,300
PCWRA Upgrades for Newlin Gulch Pipeline	-	5,061,920		-	-		-	5,061,920
Total Expenditures	\$5,455,300	\$5,061,920	\$	-	\$	\$	-	\$ 10,517,220
Funding Sources	2019	2020	20	021	2022	2023		Total
Funding Sources System Development Fees	2019 \$ 3,273,180	2020 \$ 3,037,152		021	\$ 	\$ 	-	\$ Total 6,310,332
					\$ 	\$ 	- -	\$

Operational Impact

There is no operational impacts estimated for this project, however, these costs will primarily be related to electricity for pumping. When these costs are better understood, they will budgeted in the future.

Town of Castle Rock 2019

Project Name Pipeline South to PCWPF

Project Number: 76-67

Contact: Matt Benak, Water Resources Manager 5 Year Historical Total \$ 1,663,017

Department: Castle Rock Water 2019-2023 Total 390,000

Category: Infrastructure CIP Project Total (2014-2023): \$ 2,053,017

Type: New Useful Life: 50 Years

Description and Justification

This project involves relocating approximately 2,000 linear feet of raw water pipeline from the Heckendorf alluvial well field that is exposed in East Plum Creek. The Town plans to relocate this exposed portion of the pipeline out of the floodplain to prevent future pipeline exposure along the stream.

Expenditures		2019	2020		2021		2022		2023		Total
Pipeline Relocation		\$ 340,000	\$	-	\$	-	\$	-	\$	-	\$ 340,000
PC South Well Field		50,000		-		-		-		-	50,000
	Total Expenditures	\$ 390,000	\$	-	\$	-	\$	-	\$	-	\$ 390,000
Funding Sources		2019	2020		2021		2022		2023		Total
Funding Sources System Development	Fees	\$ 2019 234,000	\$ 2020	_	\$ 2021	-	\$ 2022	_	\$ 2023	_	\$ Total 234,000
		\$ 	\$ 2020	- -	\$ 2021	- -	\$ 2022	- -	\$ 2023	- -	\$

Operational Impact

There are no operational impacts resulting from the relocation of the existing pipeline.

Project Name Stream Gages

Project Number: 79-09

Contact: Matt Benak, Water Resources Manager 5 Year Historical Total \$

Department: Castle Rock Water

Category: Infrastructure CIP Project Total (2014-2023): \$ 250,000

2019-2023 Total

250,000

Type: New Useful Life: 50 Years

Description and Justification

This project is part of the Town's Strategic goal to transition to a 75% renewable water supply for the future. The Town has existing renewable water rights along Cook Creek, a tributary to East Plum Creek in Larkspur, CO. In order to use these water rights, the Town is required to install a stream gage along Cook Creek near Noe Road.

Expenditures	2019	2020		2021	2022	2023	Total
Cook Creek Stream Gage	\$ 250,000	\$	- \$	- \$	- \$	- \$	250,000

Total Expenditures	\$ 250,000	\$	-	\$	-	\$	-	\$	-	\$ 250,000
Funding Sources	2019	2020		2021		2022		2023		Total
System Development Fees	\$ 150,000	\$	-	\$	-	\$	-	\$	-	\$ 150,000
Water Resources Fees	100,000		-		-		-		-	100,000
Total Funding Sources	\$ 250,000	\$	-	\$	-	\$	-	\$	-	\$ 250,000

Operational Impact

Future operating costs are estimated at \$15,000 per year beginning in 2019 within the Water Resources Funds. These operating costs will include stream gage calibration, removing debris following precipitation events, communication systems, and regular site maintenance.

STORMWATER FUND CASTLE ROCK WATER PROJECTS & FUNDING SOURCES BY DEPARTMENT

Project Expenditures	2019	2020	2021	2022	2023	Total
Minor Drainageway Stabilization	\$ 155,319	\$ 155,319	\$ 221,986	\$ 155,319	\$ 155,319	\$ 843,262
Stream Stabilization	3,897,330	728,289	2,249,816	1,672,651	2,239,318	10,787,404
Craig & Gould N. Infrastructure Improvements	213,108	1,331,925	-	-	-	1,545,033
Detention Pond Retrofits	50,000	50,000	50,000	50,000	50,000	250,000
Corrugated Metal Pipe Rehabilitation	-	-	240,000	240,000	240,000	720,000
Watershed Master Plan Updates	30,000	30,000	280,000	230,000	230,000	800,000
Administration & Customer Service Building	64,372	579,352	-	-	-	643,724
Village North Storm Sewer	-	225,000	-	-	-	225,000
Young American Storm Sewer - Gordon Drive	500,000	-	-	-	-	500,000
Total Expenditures by Year	\$ 4,910,129	\$ 3,099,885	\$ 3,041,802	\$ 2,347,970	\$ 2,914,637	\$ 16,314,423

Project Funding Sources	2019	2020	2021	2022	2023	Total
Stormwater Charges	\$ 1,733,296	\$ 1,920,099	\$ 1,362,921	\$ 955,592	\$ 1,171,381	\$ 7,143,289
System Development Fees	3,176,833	1,179,786	1,678,881	1,392,378	1,743,256	9,171,134
Total Funding Sources by Year	\$4,910,129	\$ 3,099,885	\$3,041,802	\$ 2,347,970	\$ 2,914,637	\$ 16,314,423

Funding Source information is intended to identify the revenue that is planned to pay for the capital projects included. While additional revenue is anticipated to be received each year, this information identifies only what is necessary to fund the Capital Improvement Program.



Castle Rock Storm

Project Name Minor Drainageway Stabilization

Project Number: 78-02

Contact: David Van Dellen, Stormwater Manager 5 Year Historical Total \$ 155,319

Department: Castle Rock Water 2019-2023 Total 843,262

Category: Infrastructure CIP Project Total (2014-2023): \$ 998,581

Type: New Useful Life: 50 years

Description and Justification

This project includes new infrastructure on small channel systems downstream of development to correct erosion where the minor drainageway system is incomplete. Minor drainageways are natural or engineered conveyance systems with an upstream drainage area less than 130 acres. If improvements are not made, these systems pose a potential public safety hazard and flood risk. These projects will provide improvements for adequate capacity based on growth and stabilization. Projects are divided between the Plum Creek Basin (PC) and the Cherry Creek Basin (CC). This project helps Castle Rock Water provide high quality water service to Town residents and businesses by managing stormwater runoff and flood risks. Funding for these improvements are split between stormwater charges and system development fees to account for existing infrastructure needs and impacts due to growth.

Expenditures		2019	2020	2021	2022	2023	Total
Minor Drainage Way Stab PC	\$	84,680	\$ 84,680	\$ 129,324	\$ 84,680	\$ 84,680	\$ 468,044
Minor Drainage Way Stab CC		70,639	70,639	92,662	70,639	70,639	375,218
Total Expenditures	\$	155,319	\$ 155,319	\$ 221,986	\$ 155,319	\$ 155,319	\$ 843,262
Funding Sources							
Funding Sources		2019	2020	2021	2022	2023	Total
Funding Sources Stormwater Charges	\$	2019 97,140	\$ 2020 97,140	\$ 2021 141,784	\$ 2022 97,140	\$ 	\$ Total 530,344
	\$		\$ 	\$ 	\$ 	\$ 	\$

Operational Impact

No additional operating expenditures or revenues are anticipated as a result of this project.

Project Name Stream Stabilization

Project Number: Multiple

Contact: David Van Dellen, Stormwater Manager 5 Year Historical Total \$ 155,319

Department: Castle Rock Water 2019-2023 Total 10,787,404

Category: Infrastructure CIP Project Total (2014-2023): \$ 10,942,723

Type: New Useful Life: 50 years

Description and Justification

This project includes stream channel stabilization throughout Castle Rock. The tributaries are part of the major drainageway networks that include watersheds with an upstream area greater than 130 acres, also known as the 100-year floodplain. These projects have been identified in the 2017 Stormwater Master Plan as a scheduled activity. Stream improvements generally include natural or engineered segments of vegetated stream between engineered hard points that reduce channel slope and erosive velocities. Improvements also ensure adequate flood capacity in the channel to reduce flood potential for adjacent properties. Improvements to the natural drainageway are required to mitigate development impacts that accelerate erosion and pose a potential public safety hazard if left unattended over time. This project will restore a sustainable channel system for water quality and flood control. The improvements will reduce channel erosion and protect adjacent property from loss during flooding. Projects are divided between the Plum Creek Basin (PC) and the Cherry Creek Basin (CC). This project helps Castle Rock Water provide high quality water service to Town residents and businesses by managing stormwater runoff and flood risks. Funding for these improvements are split between stormwater charges and system development fees to account for existing infrastructure needs and impacts due to growth.

Expenditures	2019	2020	2021	2022	2023	Total
Total Drainage Way Stabilization PC	\$ 3,277,903	\$ 650,117	\$ 1,755,695	\$ 1,043,970	\$ 2,190,281	\$ 8,917,966
Total Drainage Way Stabilization CC	619,427	78,172	494,121	628,681	49,037	1,869,438
Total Expenditures	\$3,897,330	\$ 728,289	\$ 2,249,816	\$ 1,672,651	\$ 2,239,318	\$ 10,787,404
Funding Sources	2019	2020	2021	2022	2023	Total
Funding Sources Stormwater Charges	2019 \$ 843,048	\$ 2020 186,034	2021 \$ 775,736	2022 \$ 418,393	2023 \$ 636,302	\$ Total 2,859,513
		\$ 				\$

Operational Impact

No additional operating expenditures or revenues are anticipated as a result of this project.

Project Name Craig & Gould N. Infrastructure Improvements

Project Number: 76-51

Contact: David Van Dellen, Stormwater Manager 5 Year Historical Total \$ -

Department: Castle Rock Water 2019-2023 Total 1,545,033

Category: Infrastructure CIP Project Total (2014-2023): \$ 1,545,033

Type: Upgrade

Type: Upgrade Useful Life: 50 years

Description and Justification

This project includes water, wastewater, sewer, and stormwater improvements in the Craig and Gould North subdivision in partnership with the Public Works department for the revitalization of this downtown area. Currently, there is no storm drain system in the area. This project will add storm drains, to capture flow and reduce flood risk for this historic neighborhood. This project will provide storm drainage infrastructure to reduce street flooding and meet current criteria for residential land use. These improvements will reduce flooding hazards on the streets and for the existing private property in the neighborhood. This project helps Castle Rock Water provide high quality water service to Town residents and businesses by managing stormwater runoff and flood risks.

Expenditures		2019	2020	2021		2022		2023		Total
Design		\$ 213,108	\$ -	\$	-	\$	-	\$	-	\$ 213,108
Construction		-	1,331,925		-		-		-	1,331,925
	Total Expenditures	\$ 213,108	\$ 1,331,925	\$	-	\$	-	\$	-	\$ 1,545,033
Funding Sources		2019	2020	2021		2022		2023		Total
Funding Sources Stormwater Charges		\$ 2019 213,108	2020 \$ 1,331,925	\$ 2021	-	\$ 2022	-	\$ 2023	-	\$ Total 1,545,033
		\$ 		\$ 2021	-	\$ 2022	-	\$ 2023	-	\$

Operational Impact

There is a possible reduction in repair and maintenance costs, which won't be known until the project is complete and will be incorporated at that time.

Project Name Detention Pond Retrofits

Project Number: 77-18

Contact: David Van Dellen, Stormwater Manager 5 Year Historical Total \$ 149,765

Department: Castle Rock Water 2019-2023 Total 250,000
Category: Infrastructure CIP Project Total (2014-2023): \$ 399,765

Type: Upgrade
Useful Life: 50 years

Description and Justification

This project includes regional detention pond retrofits to facilities that demonstrate an excessive operation and maintenance burden on the program. Generally, older water quality and detention facilities require upgrades to the outflow structure and other pond features to improve runoff circulation through the facility and reduce clogging potential. Ponds are evaluated on an ongoing basis and projects are indentified as needed. This project helps Castle Rock Water provide high quality water service to Town residents and businesses by managing stormwater runoff and flood risks.

Expenditures	2019	2020	2021	2022	2023	Total		
Detention Ponds	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$	250,000	

	Total Expenditures	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 250,000
Funding Sources	•	2019	2020	2021	2022	2023	Total
Stormwater Charges		\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 250,000

_						
Total Funding Sources	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 250,000

Operational Impact

No additional operating expenditures or revenues are anticipated as a result of this project.

Project Name Corrugated Metal Pipe Rehabilitation

Project Number: 78-73

Contact: David Van Dellen, Stormwater Manager 5 Year Historical Total \$

Department: Castle Rock Water 2019-2023 Total 720,000
Category: Infrastructure CIP Project Total (2014-2023): \$ 720,000

Category: Infrastructure
Type: Repair
Useful Life: 20-50 years

Description and Justification

This program is required to address aging stormwater infrastructure. Existing corrugated metal pipe (CMP) has an average life expectancy of 30 years. Failure of pipe generally includes invert corrosion and deterioration resulting in subgrade failure. This program will help ensure rehabilitation to existing CMP systems prior to infrastructure failure and prolong the life of the system by 20 to 50 years. This project helps Castle Rock Water provide high quality water service to Town residents and businesses by managing stormwater runoff and flood risks.

Expenditures	2019	2020		2021	2022	2023	Total
CMP Rehabilitation	ς .	- Ś	- \$	240 000	\$ 240,000	\$ 240,000	\$ 720,000

	Total Expenditures	\$	-	\$	-	\$ 240,000	\$ 240,000	\$ 240,000	\$ 720,000
Funding Sources		2019		2020		2021	2022	2023	Total
Stormwater Charges		\$	-	\$	-	\$ 240,000	\$ 240,000	\$ 240,000	\$ 720,000

<u>-</u>						
Total Funding Sources	\$ -	\$ -	\$ 240,000	\$ 240,000	\$ 240,000	\$ 720,000

Operational Impact

Project Name Watershed Master Plan Updates

Project Number: 78-74

Contact: David Van Dellen, Stormwater Manager 5 Year Historical Total \$ -

Department: Castle Rock Water 2019-2023 Total 800,000

Category: Infrastructure CIP Project Total (2014-2023): \$ 800,000

Type: Planning/Design Useful Life: Perpetual

Description and Justification

The Stormwater Capital Program includes updating 19 Major Drainageway Master Plans (MP) covering over 71 miles of floodplain system. Periodic updates to these plans are required to account for changes in watershed hydrology, stream stability assessment and capital plan prioritization. It is estimated that approximately four plans will be updated annually over a five year period beginning in 2021. A master plan GIS database tool is needed to support modeling efforts, track capital completion status and facilitate coordination with other stakeholder projects. This project helps Castle Rock Water provide high quality water service to Town residents and businesses by managing stormwater runoff and flood risks.

Expenditures	2019	2020	2021	2022	2023	Total
Master Plan GIS Database Tool	\$ -	\$ -	\$ 50,000	\$ -	\$ -	\$ 50,000
Watershed MP Updates - Plum Creek	-	-	200,000	200,000	200,000	600,000
Chase Drains Installations	30,000	30,000	30,000	30,000	30,000	150,000
Total Expenditures	\$ 30,000	\$ 30,000	\$ 280,000	\$ 230,000	\$ 230,000	\$ 800,000
Funding Sources	2019	2020	2021	2022	2023	Total
Funding Sources Stormwater Charges	\$ 2019 30,000	\$ 2020 30,000	\$ 2021 155,401	\$ 2022 150,059	\$ 2023 147,939	\$ Total 513,399
	\$ 	\$ 	\$ 	\$ 	\$ 	\$

Operational Impact

Project Name Administration & Customer Service Building

Project Number: 77-57

Contact: Tim Friday, Assistant Castle Rock Water Director 5 Year Historical Total \$

Department: Castle Rock Water 2019-2023 Total 643,724

Category: Building CIP Project Total (2014-2023): \$ 643,724

Type: New Useful Life: 50 years

Description and Justification

This project accommodates construction of a new Administration and Customer Service Building for Castle Rock Water. The existing Kellogg Facility will be repurposed for staff currently housed in trailers. This building will accommodate the existing and future Administration and Customer Service staff within Castle Rock Water. The Admin/Customer Service Team currently is short of space by approximately 3,000 square feet. The new facility will be designed and constructed to meet the needs of the department through buildout. A site assessment was conducted in 2013 that details existing and future conditions and identifies space needs for the Castle Rock Water. Construction is targeted for 2020 with funding split across the four Castle Rock Water enterprise funds based upon staffing proportions. The Stormwater Fund's portion of 2020 funding will be a drawdown of reserves accumulated in prior years through system development fees and rates revenues. This project helps Castle Rock Water meet the priority of providing high quality water service to Town residents and businesses.

Design	Construction
\$140,364	\$1,263,277
\$62,794	\$565,146
\$64,372	\$579,352
\$58,831	\$529,477
	\$140,364 \$62,794 \$64,372

Expenditures		2019	2020	2021		2022		2023		Total
Construction		\$ -	\$ 579,352	\$	-	\$	-	\$	-	\$ 579,352
Design		64,372	-		-		-		-	64,372
	Total Expenditures	\$ 64,372	\$ 579,352	\$	-	\$	-	\$	-	\$ 643,724
Funding Sources		2019	2020	2021		2022		2023		Total
System Developme	nt Fees	\$ 64,372	\$ 579,352	\$	-	\$	-	\$	-	\$ 643,724

Operational Impact

There are general operations expenditures of approximately \$30,000 per year. The Water fund's portion is \$12,119 per year, the Water Resources fund's portion is \$5,689 per year, the Stormwater fund's portion is \$5,510 per year, and the Wastewater fund's portion is \$6,682 per year.

Project Name Village North Storm Sewer

Project Number: 75-20

Contact: David Van Dellen, Stormwater Manager 5 Year Historical Total \$ 50,000

Department: Castle Rock Water 2019-2023 Total 225,000
Category: Infrastructure CIP Project Total (2014-2023): \$ 275,000

Type: Upgrade
Useful Life: 50 years

Description and Justification

This project includes storm sewer improvements in the Village North Subdivision (which is east of Craig and Gould off 5th street) in partnership with Public Works and Wastewater. Reports of localized flooding have occurred in this commercial/industrial area. This project will add storm drains and increase street capacity to capture and contain stormwater runoff and reduce flood risk for local businesses. This project helps Castle Rock Water provide high quality water service to Town residents and businesses by managing stormwater runoff and flood risks.

Expenditures	2019		2020	2	2021	2022		2023		Total
Village North Storm Sewer Improvements \$		- \$	225,000	\$	-	\$	- \$		-	\$ 225,000

	Total Expenditures	\$	-	\$ 225,000	\$	-	\$	-	\$	-	\$ 225,000
Funding Sources		2019		2020	2021		2022		2023		Total
Stormwater Charges		\$	-	\$ 225,000	\$	-	\$	-	\$	-	\$ 225,000
To	otal Funding Sources	\$	_	\$ 225,000	\$	_	\$	_	\$	-	\$ 225,000

Operational Impact

Project Name Young American Storm Sewer - Gordon Drive

Project Number: 78-31

Contact: David Van Dellen, Stormwater Manager 5 Year Historical Total \$ 498,623

Department: Castle Rock Water 2019-2023 Total 500,000

Category: Infrastructure CIP Project Total (2014-2023): \$ 998,623

Type: Upgrade Useful Life: 50 Years

Description and Justification

This project includes storm sewer improvements in the Young American Subdivision on Gordon Drive in partnership with Public Works and Castle Rock Water. Currently, there is no storm drain system in the area. This project will add storm drains to capture flow and reduce flood risk for this historic neighborhood. This project will provide storm drainage infrastructure to reduce flood hazards in the right-of-way. Improvements will also increase emergency accessibility to residents in the event of a flood.

Expenditures		2019	2020		2021		2022		2023		Total
Gordon Drive		\$ 500,000	\$	-	\$	-	\$	-	\$	-	\$ 500,000
	Total Expenditures	\$ 500,000	\$	-	\$	_	\$	-	\$	-	\$ 500,000
Funding Sources		2019	2020		2021		2022		2023		Total
Stormwater Charges	5	\$ 500,000	\$	-	\$	-	\$	-	\$	-	\$ 500,000
T	otal Funding Sources	\$ 500,000	\$	-	\$	-	\$	-	\$	-	\$ 500,000

Operational Impact

There is a possible reduction in repair and maintenance costs, which won't be known until the project is complete and will be incorporated at that time.

WASTEWATER FUND CASTLE ROCK WATER PROJECTS & FUNDING SOURCES BY DEPARTMENT

Project Expenditures	2019		2020		2021		2022		2023	Total
Lift Station Upgrades	\$ 217,000	\$	217,000	\$	217,000	\$	185,000	\$	185,000	\$ 1,021,000
Sewer Line Rehabilitation	350,000		350,000		350,000		350,000		350,000	1,750,000
Security System Improvements	25,000		25,000		25,000		25,000		25,000	125,000
PCWRA Projects	18,978,309	2	2,553,464	:	2,352,935		619,764		428,465	24,932,937
Craig & Gould North Improvements	45,000		425,000		-		-		-	470,000
Adminisration & Customer Service Building	58,831		529,477		-		-		-	588,308
Prairie Hawk Interceptor	-		-		50,000		417,000		-	467,000
Kinner Street Bottleneck	-		-		-		-	2	2,117,000	2,117,000
Malibu Street Upsize	-		345,000		-		-		-	345,000
Machinery and Equipment	45,000		45,000		45,000		45,000		45,000	225,000
Total Expenditures by Year	\$ 19,719,140	\$4	1,489,941	\$3	3,039,935	\$:	L,641,764	\$3	3,150,465	\$ 32,041,245

Project Funding Sources	2019	2020	2021	2022	2023	Total
Wastewater Service Charges	\$ 1,056,359	\$1,507,359	\$ 947,000	\$ 915,000	\$3,032,000	\$ 7,457,719
System Development Fees	 18,662,781	2,982,582	2,092,935	726,764	118,465	24,583,526
Total Funding Sources by Year	\$ 19,719,140	\$4,489,941	\$3,039,935	\$1,641,764	\$3,150,465	\$ 32,041,245

Funding Source information is intended to identify the revenue that is planned to pay for the capital projects included. While additional revenue is anticipated to be received each year, this information identifies only what is necessary to fund the Capital Improvement Program.



Plum Creek Water Reclamation Authority plant

Project Name Lift Station Upgrades

Project Number: Multiple

Contact: Jeanne Stevens, Engineering Manager 5 Year Historical Total \$ 120,322

 Department:
 Castle Rock Water
 2019-2023 Total
 1,021,000

 Category:
 Equipment
 CIP Project Total (2014-2023): \$ 1,141,322

Category: Equipment CIP Project Total (2014-2023): \$
Type: Replacement

Useful Life: 20 years

Description and Justification

The Lift Station Upgrades project is intended to accommodate multiple improvements to the Town's lift stations (LS). The purpose of the pump and motor replacement project is to plan for the capital replacement of pumps and/or motors at wastewater lift stations. The lift stations transport wastewater to the Plum Creek Wastewater Reclamation Authority for treatment. Pump and motor replacements are identified annually or on an emergency basis.

Pumps and motors at wastewater lift stations have a finite service life and replacement must be planned on an ongoing basis. Employee safety and year round access to the lift station are accommodated through this project, since lift stations are typically checked multiple times per week. These projects address the community need of providing a safe and reliable water supply.

Expenditures		2019		2020		2021		2022		2023		Total
LS Rehab/Replacement	\$	25,000	\$	25,000	\$	25,000	\$	25,000	\$	25,000	\$	125,000
Lift Station Pump & Motor Replacement		50,000		50,000		50,000		50,000		50,000		250,000
Lift Station Mixing Improvements		32,000		32,000		32,000		-		-		96,000
WW Facility VFD Replacements		110,000		110,000		110,000		110,000		110,000		550,000
Total Expenditures	\$	217,000	\$	217,000	\$	217,000	\$	185,000	\$	185,000	\$	1,021,000
Funding Sources		2019		2020		2021		2022		2023		Total
Wastewater Service Charges	\$	217,000	\$	217,000	\$	217,000	\$	185,000	\$	185,000	\$	1,021,000
Total Funding Sources	_	217.000	_	217.000	_	217.000	_	185.000	_	185.000	٠,	1.021.000

Operational Impact

Improvements and replacements to equipment typically result in reduced maintenance costs, which are unknown until project implementation and will be incorporated at that time.

Project Name Sewer Line Rehabilitation

Project Number: 75-62

Contact: Jeanne Stevens, Engineering Manager 5 Year Historical Total \$ 1,338,672

Department: Castle Rock Water 2019-2023 Total 1,750,000

Category: Infrastructure CIP Project Total (2014-2023): \$ 3,088,672

Type: Repair Useful Life: 50 years

Description and Justification

This project is intended to rehabilitate or replace existing sewer lines due to age or failing infrastructure. This is an ongoing program and areas of focus are identified annually. The Engineering Division will work with the Operations Division to identify areas that need sewer improvements and coordinate with the Public Works Department to complete projects ahead of the Pavement Maintenance Program to minimize the impact of Townwide roadwork. This project funds the replacement and rehabilitation of old, undersized, and/or deteriorated sewer lines. The Sewer Rehabilitation Program will address the requirements of Environmental Protection Agency's (EPA) Capacity, Management, Operation, and Maintenance (CMOM) programs.

Expenditures	2019	2020	2021	2022	2023	Total
Repair	\$ 350,000	\$ 350,000	\$ 350,000	\$ 350,000	\$ 350,000	\$ 1,750,000

Total Expenditures	\$ 350,000	\$ 350,000	\$ 350,000	\$ 350,000	\$ 350,000	\$ 1,750,000
Funding Sources	2019	2020	2021	2022	2023	Total
Wastewater Service Charges	\$ 350,000	\$ 350,000	\$ 350,000	\$ 350,000	\$ 350,000	\$ 1,750,000

_						
Total Funding Sources	\$ 350,000	\$ 350,000	\$ 350,000	\$ 350,000	\$ 350,000	\$ 1,750,000

Operational Impact

Project Name Security System Improvements

Project Number: Multiple

Contact: Tim Friday, Assistant Castle Rock Water Director 5 Year Historical Total \$ 71,962

Department: Castle Rock Water 2019-2023 Total 125,000

Category: Building CIP Project Total (2014-2023): \$ 196,962

Type: Upgrade Useful Life: 20 years

Description and Justification

These miscellaneous small projects are needed to increase security at wastewater facilities in accordance with the vulnerability assessment. The vulnerability assessment identifies security and system integrity needs that may present a risk to public health and safety. Examples of improvements are fences, gates, cameras, and alarms. These various projects include installing or replacing electronic access control, locks, and surveillance as needed at all wastewater facilities. Security at all Town of Castle Rock facilities is important for safeguarding investments in infrastructure and ensuring employee safety.

Expenditures	2019	2020	2021	2022	2023	Total
Security Improvements	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 125,000

Total Expenditures	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 125,000
Funding Sources	2019	2020	2021	2022	2023	Total
Wastewater Service Charges	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 125,000

Total Funding Sources \$	25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 125,000

Operational Impact

Project Name PCWRA Projects

Project Number: Multiple

Contact: Jeanne Stevens, Engineering Manager 5 Year Historical Total \$ 9,286,769

Department: Castle Rock Water 2019-2023 Total 24,932,937

Category: Infrastructure CIP Project Total (2014-2023): \$ 34,219,706

Type: New Useful Life: 50 years

Description and Justification

The Town of Castle Rock does not perform wastewater treatment. The Plum Creek Water Reclamation Authority (PCWRA) is a regional reclamation facility that serves the Town of Castle Rock, Castle Pines, and Castle Pines North. The capital buy-in project accommodates the Town of Castle Rock's significant share of PCWRA debt which include two Colorado Water Resources and Power Development Authority (2001 and 2002) loans and Clean Water Revenue Bonds Series 2005 for capacity expansion and treatment. This project also provides funding for capital repair and replacement including replacement of pumps, motors, blowers, and general facilities maintenance. The Ditch Three project will equip Oxidation Ditch Three at the wastewater reclamation facility, which was not originally equipped to accommodate future wastewater flows associated with planned development and future growth. An oxidation ditch is a concrete channel that funnels wastewater into the treatment plant. The ditch is the first phase of wastewater treatment using biological agents. Pumps, blowers, and motors are required to equip the ditch for operation. The Manganese Control project accomplishes facility improvements to control dissolved manganese in order to meet regulatory requirements; the facility is currently operating under temporary modifications to its permit pending additional studies.

Additional funds are included in 2019 to accommodate an expansion of the PCWRA facility. Town growth is fueling the demand for additional wastewater treatment needs.

Expenditures	2019	2020	2021	2022	2023	Total
Capital Buy-In	\$ 1,992,280	\$ 1,996,435	\$ 1,997,935	\$ 264,764	\$ 73,465	\$ 6,324,879
Ditch Three at PCWRA	202,029	202,029	-	-	-	404,058
Manganese Control at PCWRA	-	-	-	-	-	-
PCWRA Rehab/Replacement	284,000	355,000	355,000	355,000	355,000	1,704,000
PCWRA Capacity Expansion	16,500,000	-	-	-	-	16,500,000
Total Expenditures	\$ 18,978,309	\$ 2,553,464	\$ 2,352,935	\$ 619,764	\$ 428,465	\$ 24,932,937
Funding Sources	2019	2020	2021	2022	2023	Total
System Development Fees	\$ 18,558,950	\$ 2,063,105	\$ 1,997,935	\$ 264,764	\$ 73,465	\$ 22,958,218
Wastewater Service Charges	419,359	490,359	355,000	355,000	355,000	1,974,719
Total Funding Sources	\$ 18,978,309	\$ 2,553,464	\$ 2,352,935	\$ 619,764	\$ 428,465	\$ 24,932,937

Operational Impact

Operating Expenditures for PCWRA are included in the capital buy-in payments displayed above.

Project Name Craig & Gould North Improvements

Project Number: 76-51

Contact: Jeanne Stevens, Engineering Manager 5 Year Historical Total \$ 317,110

Department: Castle Rock Water 2019-2023 Total 470,000

Category: Infrastructure CIP Project Total (2014-2023): \$ 787,110

Type: Replacement Useful Life: 50 years

Description and Justification

This project will accomplish infrastructure improvements in the Craig and Gould neighborhood. Aging (greater than 70 years old) and undersized sewers will be replaced and deterioriated manholes will be replaced or rehabilitated. This project will be coordinated with the Public Works department to coincide with the annual Pavement Maintenance Program in order to minimize the construction impact on the community. This project addresses the community need of providing a safe and reliable water supply.

Expenditures	2019		2020		2021			2022			2023			Total
Design	\$ 45,000	\$	-	\$		-	\$		-	\$		-	\$	45,000
Construction	-		425,000			-			-			-		425,000
Total Expenditures	\$ 45,000	\$	425,000	\$		-	\$		-	\$		-	\$	470,000
Funding Sources	2019		2020		2021			2022			2023			Total
Wastewater Service Charges	\$ 45,000	\$	425,000	\$		-	\$		-	\$		-	\$	470,000
Total Funding Sources	\$ 45,000	Ś	425,000	Ś		_	Ś		_	Ś		_	Ś	470,000

Operational Impact

The rehabilitation of aging equipment will likely result in reduced maintenance expenditures, which will not be known until project completion and will be incorporated at that time.

Project Name Adminisration & Customer Service Building

Project Number: 77-57

Contact: Tim Friday, Assistant Castle Rock Water Director 5 Year Historical Total \$

Department: Castle Rock Water 2019-2023 Total 588,308

Category: Building CIP Project Total (2014-2023): \$ 588,308

Type: New Useful Life: 50 years

Description and Justification

This project accomodates construction of a new Administration and Customer Service Building for Castle Rock Water. The existing Kellogg Facility will be repurposed for staff currently housed in trailers. This building will accommodate existing and future Administration and Customer Service staff within Castle Rock Water. The Admin and Customer Service Team currently is short of space by approximately 3,000 square feet. The new facility will be designed and constructed to meet the needs of the department through buildout. A site assessment was conducted in 2013 that details existing and future conditions and identifies space needs for Castle Rock Water. Construction is targeted for 2020 with funding split across the four Castle Rock Water enterprise funds based upon staffing proportions. The Wastewater Fund's portion of 2020 funding will be a drawdown of CIP Reserves accumulated in prior years and departmentally designated plus system development fees and rates revenues. This project helps Castle Rock Water meet the priority of providing high quality water service to Town residents and businesses.

Design	Construction
\$140,364	\$1,263,277
\$62,794	\$565,146
\$64,372	\$579,352
\$58,831	\$529,477
	\$140,364 \$62,794 \$64,372

Expenditures		2019	2020	2021		2022		2023		Total
Construction	\$	-	\$ 529,477	\$	-	\$	-	\$	-	\$ 529,477
Design		58,831	-		-		-		-	58,831
Total Expenditures	\$	58,831	\$ 529,477	\$	-	\$	-	\$	-	\$ 588,308
Funding Sources		2019	2020	2021		2022		2023		Total
				-						
System Development Fees	\$	58,831	\$ 529,477	\$ 	-	\$	-	\$	-	\$ 588,308
System Development Fees Total Funding Sources	,	58,831 58,831	 529,477 529,477	\$	-	\$	-	\$	-	\$ 588,308 588,308

Operational Impact

General costs of approximately \$30,000 per year are anticipated and planned for in the respective operating budgets for future years. The Water Fund's portion is \$12,119 per year, the Water Resources fund 'sportion is \$5,689 per year, the Stormwater fund's portion is \$5,510 per year, and the Wastewater fund's portion is \$6,682 per year.

Project Name Prairie Hawk Interceptor

Project Number: 75-92

Contact: Jeanne Stevens, Engineering Manager 5 Year Historical Total \$

Department: Castle Rock Water 2019-2023 Total 467,000

Category: Equipment CIP Project Total (2014-2023): \$ 467,000

Type: New Useful Life: 50 years

Description and Justification

This project will provide for the need to upsize the sewer system along Prairie Hawk Drive. The original sewer line(interceptor) must be enlarged (upsized) to 18 or 21 inches along Prairie Hawk Drive south of Wolfensberger to meet future wastewater flows generated by growth in the Town. This interceptor would serve the proposed development at Miller's Landing and could potentially be delayed based on the pace of development in the area.

Expenditures	2019		2020		2021	2022	2023			Total
Prairie Hawk Intercentor	\$	_ (\$	-	\$ 50 000	\$ 417 000	\$	_	ς	467 000

Total Expendit	ures \$		-	\$	-	\$ 50,000	\$ 417,000	\$	-	\$ 467,000
Funding Sources		2019		2020		2021	2022	2023		Total
System Development Fees	\$		-	\$	-	\$ 50,000	\$ 417,000	\$	-	\$ 467,000

Total Funding Sources \$ - \$ - \$ 50,000 \$ 417,000 \$ - \$ 467,000

Operational Impact

Project Name Kinner Street Bottleneck

Project Number: 75-81

5 Year Historical Total \$ Contact: Jeanne Stevens, Engineering Manager

Department: Castle Rock Water 2019-2023 Total 2,117,000 CIP Project Total (2014-2023): \$ 2,117,000

Infrastructure Category: Replacement Type: Useful Life: 50 years

Description and Justification

This project is to upsize nearly 3,000 linear feet of existing 18 and 21-inch sanitary sewer mains to 21 and 24-inch on Kinner Street. This project involves a broad crossing of I-25, East Plum Creek, and Wolfensberger Road. Hydraulic modeling does not indicate capacity issues at this time. However, increasing density downtown and in Lanterns, Crystal Valley Ranch could have an impact. The sewer main may need rehabilitation instead of full replacement.

Expenditures		20:	19	2020		2	2021		2022	2	2023	Total
Kinner Street Bottlen	eck	\$	-	\$	-	\$		-	\$	-	\$ 2,117,000	\$ 2,117,000
	Total Expenditures	\$	-	\$	-	\$		-	\$	-	\$ 2,117,000	\$ 2,117,000
Funding Sources	•	20.	19	2020		-	2021		2023	,	2023	Total

	Total Funding Courses	ċ	ć	¢	ċ	¢ 2 117 000 ¢	2 117 000

Operational Impact

Wastewater Service Charges

Please describe the anticipated revenue and/or expenditure impact on annual operations, including estimated amounts.

Project Name Malibu Street Upsize

Project Number: New

> 5 Year Historical Total Contact: Jeanne Stevens, Engineering Manager

> > 2019-2023 Total

345,000

Department: Castle Rock Water

Infrastructure CIP Project Total (2014-2023): \$ 345,000 Category:

Replacement Type: Useful Life: 50 years

Description and Justification

This project replaces 1,130 linear feet of existing 15-inch clay pipe to 18 or 21-inch PVC (size to be determined) on Malibu Street, in the Village North neighborhood. Timing is being partly driven by a stormwater project that may force realignment of the sewer, at which time it would be upsized. Upstream development is contributing to the cost of the project.

Expenditures		2019		2020	2021		2022		2023		Total
Malibu Street Upsize		\$	-	\$ 345,000	\$	-	\$	-	\$	-	\$ 345,000
	Total Expenditures	\$	_	\$ 345,000	\$	_	\$	_	\$	-	\$ 345,000
Funding Sources		2019		2020	2021		2022		2023		Total
System Development	Fees	\$	-	\$ 345,000	\$	-	\$	-	\$	-	\$ 345,000

_						
Total Funding Sources	\$ - \$	345,000	\$ - \$	- \$	- \$	345,000

Operational Impact

Please describe the anticipated revenue and/or expenditure impact on annual operations, including estimated amounts.

Project Name Machinery and Equipment

Project Number: 70-30

Contact: Jeanne Stevens, Engineering Manager 5 Year Historical Total \$ 71,940

Department: Castle Rock Water 2019-2023 Total 225,000
Category: Infrastructure CIP Project Total (2014-2023): \$ 296,940

Type: Upgrade
Useful Life: Variable

Description and Justification

The purpose of these funds is to accommodate machinery and equipment purchases needed for items that have yet be identified. These funds provide flexibility to accommodate these purchases as needed.

Expenditures	2019	2020	2021	2022	2023	Total
Machinery & Equipment	\$ 45,000	\$ 45,000	\$ 45,000	\$ 45,000	\$ 45,000	\$ 225,000

Total Expenditures	\$ 45,000	\$ 45,000	\$ 45,000	\$ 45,000	\$ 45,000	\$ 225,000
Funding Sources	2019	2020	2021	2022	2023	Total
System Development Fees	\$ 45,000	\$ 45,000	\$ 45,000	\$ 45,000	\$ 45,000	\$ 225,000

45,000

45,000

45,000

45,000

225,000

Operational Impact

Total Funding Sources \$

Operational impacts are typically minimal as these small improvements to existing infrastructure fall under existing maintenance operations budgets.

45,000

FLEET SERVICES FUND

PUBLIC WORKS DEPARTMENT PROJECTS & FUNDING SOURCES BY DEPARTMENT

Project Expenditures	2019	2020	2021	2022	2023	Total
Vehicles and Equipment	\$ 2,272,971	\$ 2,222,599	\$ 2,698,259	\$ 4,069,148	\$ 3,421,232	\$ 14,684,209
Total Expenditures by Year	\$ 2,272,971	\$ 2,222,599	\$ 2,698,259	\$ 4,069,148	\$ 3,421,232	\$ 14,684,209
Project Funding Sources	2019	2020	2021	2022	2023	Total
Project Funding Sources Vehicle Replacement Contributions	2019 \$ 1,931,921	2020 \$ 2,000,297	2021 \$ 2,502,906	2022 \$ 3,792,702	2023 \$ 3,204,994	\$ Total 13,432,820

72,305

13,770

\$ 2,698,259

14,252

\$3,421,232

\$4,069,148

291,182

14.684.209

Funding Source information is intended to identify the revenue that is planned to pay for the capital projects included. While additional revenue is anticipated to be received each year, this information identifies only what is necessary to fund the Capital Improvement Program.

\$ 2,222,599

190,855

\$ 2,272,971

Summary of 2019 Vehicle Additions

Department	Make & Model	Es	stimated Cost	Justification
Police	Ford Utility AWD	\$	59,000	One additional vehicle is needed to accommodate the addition of a new Co-Responder position
Police	Ford Utility AWD	\$	59,000	One additional vehicle is needed to accommodate the addition of a new School Resource Officer position
Public Works	Ford F-150		60,000	One additional vehicle is needed to accommodate the addition of a new Signs and Markings Technician position
				One additional mower is needed to accommodate the replacement of a mower that was not previously in the
Parks and Recreation	Mower		12,855	replacement program
	Total	\$	190,855	

Transfers from Other Funds

Total Funding Sources by Year

Project Name Vehicles and Equipment

Project Number: 70-40

Contact: Paul Colell, Fleet Manager 5 Year Historical Total \$ 14,291,599

Department: Public Works Department 2019-2023 Total 14,684,209

Category: Vehicles CIP Project Total (2014-2023): \$ 28,975,808

Type: Replacement Useful Life: 4-15 years

Description and Justification

The vehicle replacement program is funded through departmental contributions made to the Fleet Fund, which is an internal service fund intended for replacement of Town vehicles and equipment. Departments that operate vehicles and equipment enrolled in the vehicle replacement program budget vehicle replacement contributions annually for the purpose of replacing existing units. The units in the following pages include vehicles scheduled for replacement. However, vehicles and equipment lives may be extended or replaced earlier if necessary. The inflation rate assumed for future vehicle purchases varies by vehicle type, with an average of about 3%. In accordance with the Town's vehicle replacement policy, unit age, usage, and historical maintenance costs are used to determine the replacement timing of vehicles and equipment in the program. The Town uses the best practice method recommended by the American Public Works Association. Other factors include type of use, operating weather conditions, and operating terrain. Once a vehicle has met the replacement criteria, there is a thorough review process by Fleet management, the operating department, and the Fleet Advisory Committee to determine if the vehicle should be replaced, retained for limited use, or to extend the vehicles life cycle. Because vehicles may be equipped with different equipment based upon their usage, the cost for similar vehicles will vary. Additionally, 3% of the total anticipated vehicle purchase amount is budgeted in order to accommodate unforseen variances in vehicle purchase amounts.

The following pages detail the requested replacements and additions to the Town's fleet by department.

Expenditures	2019	2020	2021	2022	2023	 Total
Vehicles & Equipment	\$ 2,272,971	\$ 2,222,599	\$ 2,698,259	\$ 4,069,148	\$ 3,421,232	\$ 14,684,209

Total Expenditures	\$ 2,272,971	\$ 2,222,599	\$ 2,698,259	\$ 4,069,148	\$ 3,421,232	\$ 14,684,209
Funding Sources	2019	2020	2021	2022	2023	Total
Vehicle Replacement Contributions	\$ 1,931,921	\$ 2,000,297	\$ 2,502,906	\$ 3,792,702	\$ 3,204,994	\$ 13,432,820
Vehicle Salvage	150,195	149,997	181,583	262,194	216,238	960,207
Transfers from Other Funds	190,855	72,305	13,770	14,252	-	291,182
Total Funding Sources	\$ 2,272,971	\$ 2,222,599	\$ 2,698,259	\$4,069,148	\$ 3,421,232	\$ 14,684,209

Operational Impact

Increases in operational expenditures, including gasoline and maintenance for 2019 are primarily related to vehicle additions, and are estimated to be approximately \$12,000. Additional amounts are included for operational needs in the department budgets in which contributions occur from.

2019 Schedule of Vehicle & E	quipment Purchase					
			E:	stimated	Е	stimated
Department and Vehicle Use	Vehicle Make/Mode	el	Salv	age Value		Cost *
Police Department						
SUV, Public Safety, Police, Fire	Ford Utility AWD		\$	4,147	\$	55,529
SUV, Police Patrol	Ford Utility AWD			4,473		59,901
SUV, Police Patrol	Ford Utility AWD			4,147		55,529
SUV, Police Patrol	Ford Utility AWD			4,473		59,901
SUV, Police Patrol	Ford Utility AWD			4,473		59,901
Vehicle Additions; SUV, Police Patrol	Ford Utility AWD			-		59,000
Vehicle Additions; SUV, Police Patrol	Ford Utility AWD			-		59,000
Total Police Department		5	\$	21,713	\$	408,761
Fire Department						
Fire, Response, Ambulance	Dodge Ram 4500			15,040		205,301
SUV, Public Safety, Police, Fire	Ford Expedition			4,147		55,529
Trucks, Light Duty	Ford F-150			4,147		55,529
Total Fire Department		3	\$	23,334	Ş	316,359
Transportation Fund						
Equipment, Off-Road, Loaders, Tractors, Graders	Fairmount F20			600		8,034
Equipment, Off-Road, Loaders, Tractors, Graders	Hyster H60XL			2,184		29,240
Trucks Heavy Duty, Snow Removal, Construction Dumps	International 7400			15,480		207,282
Trucks Heavy Duty, Snow Removal, Construction Dumps	International 7400			15,480		207,282
Trucks, Medium Duty	Dodge Ram 3500			4,170		55,832
Trailers Medium, Light	Wanco WVTM			1,873		25,084
Trailers Medium, Light	Wanco WTMMB			2,088		27,955
Trailers Medium, Light	Ray Tech Mini Combo			2,840		38,028
Vehicle Additions; Trucks, Light Duty	Ford F-150			-		60,000
Total Transportation Fund		9	\$	44,715	\$	658,737
Fleet Department						
Trucks, Medium Duty	Chevrolet 3500HD			4,500		60,256
Trucks, Light Duty	Ford F-150			2,180		29,191
Total Fleet Department		2	\$	6,680	\$	89,447

^{*} Estimated cost is for a planned vehicle, actual cost may be adjusted according to requirements determined by the department

2019 Schedule of Vehicle & Equipr	ment Purchase (Contin	ued)			
		E	stimated	ı	Estimated
Department and Vehicle Use	Vehicle Make/Model	Sal	vage Value		Cost *
Parks & Recreation Department					
Equipment, Off-Road, Light duty, Mowers, Carts, Skid Steers, Plows	Toro 4100-D	\$	5,034	\$	67,406
Equipment, Off-Road, Loaders, Tractors, Graders	Bobcat S160N		3,108		42,020
Heavy Equipment Off-Road, Loaders, Tractors, Graders	John Deere 4300		2,740		37,045
Trucks, Light Duty	Ford F-150		2,180		29,191
Trucks, Light Duty	Ford F-150		2,180		29,191
Trucks, Light Duty	Ford F-150		2,180		29,191
Trucks, Med Duty	Dodge Ram 3500		3,348		44,831
Trucks, Med Duty	Ford F-350 SD		2,960		39,635
Trucks, Med Duty	Ford F-250 SD		2,940		39,368
Trucks, Med Duty	Ford F-250 SD		3,678		49,254
Trailers Medium, Light	Superior Tandem Axle		550		7,431
Vehicle Additions; Equipment, Off-Road, Light duty, Mowers	Mower		-		12,855
Total Parks & Recreation Department	1	1 \$	30,898	\$	427,418
Castle Rock Water Department					
Trucks, Light Duty	Chevrolet Colorado		2,080		27,853
Trucks, Light Duty	Chevrolet Colorado		2,080		27,853
Trucks, Light Duty	Chevrolet Colorado		2,080		27,853
Trucks, Light Duty	Chevrolet Colorado		2,080		27,853
Trucks, Light Duty	Ford F-150		2,116		28,334
Trucks, Light Duty	Ford F-150		2,116		28,334
Trucks, Med Duty	Ford F-250 SD		2,620		35,083
Trucks, Med Duty	Ford F-350 SD		4,276		57,257
Trucks, Med Duty	Ford F-250		3,407		45,626
Total Castle Rock Water Department		9 \$	22,855	\$	306,046
Total - All Departments			150,195		2,206,768
3% Contingency					66,203
2019 Vehicle & Equipment Replacement Total	3	9 \$	150,195	\$	2,272,971

^{*} Estimated cost is for a planned vehicle, actual cost may be adjusted according to requirements determined by the department

2020 Schedule of Vo	ehicle & Equipment Purchase				
		E:	stimated	E	stimated
Department and Vehicle Use	Vehicle Make/Model	Salv	age Value		Cost *
DolT Department	•				
SUV, General Purpose, Light Duty	Ford Escape Hybrid	\$	2,400	\$	33,256
Total DoIT Department	1	\$	2,400	\$	33,256
Police Department					
SUV, Police Patrol	Ford Utility AWD		4,473		61,997
SUV, Police Patrol	Ford Utility AWD		4,473		61,997
SUV, Police Patrol	Ford Utility AWD		4,473		61,997
Sedan General Purpose	Ford Interceptor AWD		3,583		49,654
Sedan General Purpose	Ford Interceptor AWD		3,583		49,654
SUV, Police Patrol	Ford Utility AWD		4,473		61,997
SUV, Police Patrol	Ford Utility AWD		4,473		61,997
SUV, Police Patrol	Ford Utility AWD		4,473		61,997
SUV, Police Patrol	Ford Utility AWD		4,473		61,997
SUV, Police Patrol	Ford Utility AWD		4,473		61,997
SUV, Police Patrol	Ford Utility AWD		4,473		61,997
Trucks, Light Duty	Ford F-150		3,583		49,654
SUV, Police Patrol	Ford Expedition XLT		4,473		61,997
Vehicle Additions; SUV, Police Patrol	Ford Utility AWD		-		59,000
Total Police Department	14	\$	55,479	\$	827,932
Fire Department					
Fire Response, Brush Trucks, Hazmat	Dodge Ram 5500		14,807		205,214
Fire Response, Brush Trucks, Hazmat	Dodge Ram 5500		14,807		205,214
Fire, Response, Ambulance	Dodge Ram 4500		15,040		214,539
SUV, Public Safety, Police, Fire	Ford Expedition		4,147		57,473
Total Fire Department	4	\$	48,801	\$	682,440

^{*} Estimated cost is for a planned vehicle, actual cost may be adjusted according to requirements determined by the department

2020 Schedule of Vehicle & Equi	ipment Purchase (Continue	ed)			_
		Е	stimated	Ī	Estimated
Department and Vehicle Use	Vehicle Make/Model	Salv	vage Value		Cost *
Transportation Fund	•				
Equipment, Off-Road, Loaders, Tractors, Graders	Coleman Ultra 2500	\$	60	\$	820
Equipment, Off-Road, Loaders, Tractors, Graders	Graco LL 3900		981		13,402
Heavy Equipment Off-Road, Loaders, Tractors, Graders	Volvo L90D		19,116		264,928
Trucks, Light Duty	Ford F-150		2,110		29,245
Total Transportation Fund	4	\$	22,267	\$	308,395
Parks & Recreation Department					
Equipment, Off-Road, Loaders, Tractors, Graders	Kromer Field Commander		1,868		25,895
Trailers Medium, Light	Bobcat 5600		3,708		52,137
Trucks, Med Duty	Graco V250		2,960		41,023
Trailers Medium, Light	Kubota RTV400CI-H		256		3,595
Trailers Medium, Light	Kubota RTV400CI-H		256		3,595
Vehicle Additions; Equipment, Off-Road, Light duty, Mowers	Mower		-		13,305
Total Parks & Recreation Department	6	\$	9,048	\$	139,550
Community Center Fund					
Vans < 10K GVWR Passenger/Cargo	Ford E-350 SD		2,700		37,416
Vans < 10K GVWR Passenger/Cargo	Ford E-350 SD		2,700		37,416
Total Community Center Fund	2	\$	5,400	\$	74,832
Castle Rock Water Department					
Equipment, Off-Road, Loaders, Tractors, Graders	Octane FY25		2,048		28,390
Trucks, Med Duty	Dodge Ram 3500		4,356		60,370
Trailers Heavy	J.W. Tandem Axle		198		2,698
Total Castle Rock Water Department	3	\$	6,602	\$	91,458
Total - All Departments		\$	149,997	\$	2,157,863
3% Contingency					64,736
2020 Vehicle & Equipment Replacement Total	34	\$	149,997	\$	2,222,599

^{*} Estimated cost is for a planned vehicle, actual cost may be adjusted according to requirements determined by the department

2021 Schedule of Vehicle & Ed	quipment Purchase				
			Estimated	E	stimated
Department and Vehicle Use	Vehicle Make/Model		Salvage Value		Cost *
Facilities Department	•				
Trucks, Med Duty	Ford F-350 SD		\$ 3,400	\$	48,770
Vans < 10K GVWR Passanger/Cargo	Ford E250		2,890		41,454
Vans < 10K GVWR Passanger/Cargo	Ford E251		2,890		41,454
Total Facilities Department	3	3	\$ 9,180	\$	131,678
Police Department					
SUV, Police Patrol	Ford Utility AWD		4,473		64,167
SUV, Public Safety, Police, Fire	Ford Utility AWD		3,583		51,392
SUV, Police Patrol	Ford Utility AWD		4,473		64,167
SUV, Public Safety, Police, Fire	Ford Utility AWD		3,583		51,392
SUV, Public Safety, Police, Fire	Ford Utility AWD		3,583		51,392
SUV, Police Patrol	Ford Utility AWD		4,473		64,167
SUV, Public Safety, Police, Fire	Ford Utility AWD		3,583		51,392
SUV, Police Patrol	Ford Utility AWD		4,473		64,167
SUV, Public Safety, Police, Fire	Ford Utility AWD		4,473		64,167
SUV, Public Safety, Police, Fire	Ford Utility AWD		4,473		64,167
SUV, Public Safety, Police, Fire	Ford Utility AWD		3,583		51,392
Total Police Department	11	L	\$ 44,753	\$	641,962
Fire Department					
SUV, Public Safety, Police, Fire	Ford Expedition		4,147		59,484
SUV, Public Safety, Police, Fire, Batt Chief	Ford Expedition EL		5,519		79,162
SUV, Public Safety, Police, Fire	Ford Expedition		4,147		59,484
Trucks, Light Duty	Ford F-150 SSV		4,147		59,484
Total Fire Department	4	1	\$ 17,960	\$	257,614
Development Services Department					
SUV, General Purpose, Light Duty	Ford Escape XLS		\$ 2,108		30,237
Total Development Services Department	1	L	\$ 2,108	\$	30,237
Transportation Fund					
Transportation Fund	John Doore 4720		4.630		66 202
Heavy Equipment Off-Road, Loaders, Tractors, Graders	John Deere 4720		4,628		66,383
Sweepers Track Harris Data Carry Barrery L Country than Days and	Elgin NP Pelican		15,600		223,767
Trucks Heavy Duty, Snow Removal, Construction Dumps	International 7400		15,480		222,046
Trucks, Light Duty	Ford F-150		2,409		34,552
Trucks, Med Duty	Ford F-350 SD		4,170		59,809
Trucks, Med Duty	Ford F-350 SD		4,356		62,483
Trucks, Med Duty	Ford F-350 SD		4,356		62,483
Trailers Medium, Light	Dun-Rite 2LT7M		652		9,352
Total Transportation Fund	8	3	\$ 51,651	\$	740,875

^{*} Estimated cost is for a planned vehicle, actual cost may be adjusted according to requirements determined by the department

2021 Schedule of Vehicle & Equi	ipment Purchase (Cont	inue	ed)			
			Е	stimated	- 1	Estimated
Department and Vehicle Use	Vehicle Make/Mo	del	Salv	age Value		Cost *
Parks & Recreation Department						
Equipment, Off-Road, Loaders, Tractors, Graders	Bobcat 5600		\$	4,508	\$	65,922
Trucks, Light Duty	Ford F-150			2,180		31,270
Vehicle Additions; Equipment, Off-Road, Light duty, Mowers	Mower			-		13,770
Total Parks & Recreation Department		3	\$	6,688	\$	110,962
Community Center Fund						
Vans < 10K GVWR Passenger/Cargo	Ford E-350 SD			2,700		38,733
Total Community Center Fund		1	\$	2,700	\$	38,733
Castle Rock Water Department						
SUV, General Purpose, Light Duty	Jeep Liberty			2,394		34,334
Trucks Heavy Duty, Snow Removal, Construction Dumps	International 7400			8,660		124,223
Trucks Heavy Duty, Snow Removal, Construction Dumps	International 5600I			19,260		276,266
Trucks, Light Duty	Ford F-150 SSV			2,720		39,010
Trucks, Light Duty	Ford F-150 SSV			2,906		41,680
Trucks, Med Duty	Chevrolet C-5500			7,196		103,220
Trucks, Med Duty	Ford F-350 SD			3,407		48,875
Total Castle Rock Water Department		7	\$	46,543	\$	667,608
Total - All Departments			\$	181,583	\$	2,619,669
3% Contingency						78,590
2021 Vehicle & Equipment Replacement Total		38	\$	181,583	\$	2,698,259

^{*} Estimated cost is for a planned vehicle, actual cost may be adjusted according to requirements determined by the department

2022 Schedule of Vehicle &	Equipment Purchase					
			E	stimated	ı	Estimated
Department and Vehicle Use	Vehicle Make/Mode	l	Salv	vage Value		Cost *
Facilities Department						
Trucks, Med Duty	Ford F-350 SD			3,400		50,477
Total Facilities Department		1	\$	3,400	\$	50,477
Police Department						
Sedan, Patrol	Ford Utility AWD			4,473		66,413
Sedan, Patrol	Ford Utility AWD			4,473		66,413
SUV, Police Patrol	Ford Utility AWD			4,473		66,413
SUV, Public Safety, Police, Fire	Ford Utility AWD			4,473		66,413
SUV, Police Patrol	Ford Utility AWD			4,473		66,413
SUV, Police Patrol	Ford Utility AWD			4,473		66,413
SUV, Public Safety, Police, Fire	Ford Utility AWD			3,583		53,191
SUV, Police Patrol	Ford Utility AWD			4,400		65,323
Total Police Department		8	\$	34,821	\$	516,992
Fire Department						
Fire, Response, Ambulance	Ford F450			15,040		234,282
Fire, Response, Ambulance	Ford F450			15,040		234,282
SUV, Public Safety, Police, Fire, Batt Chief	Ford Expedition EL			5,230		77,645
Trailers Medium, Light	Bauer TCOM-25			9,921		147,291
Trucks, Light Duty	Ford F-150 SSV			3,835		56,935
Fire Response, Pumps, Quints, Rescue	Pierce Velocity Pumper			56,000		851,657
Total Fire Department		6	\$	105,066	\$	1,602,092
Development Services Department						
SUV, General Purpose, Light Duty	Jeep Liberty			2,108		31,296
Total Development Services Department		1	\$	2,108	\$	31,296
Transportation Fund						
Equipment, Off-Road, Loaders, Tractors, Graders	Caterpillar CB334D			6,540		97,093
Trucks Heavy Duty, Snow Removal, Construction Dumps	International 7400			15,480		229,817
Trucks Heavy Duty, Snow Removal, Construction Dumps	International 7500			17,268		256,362
Trucks, Light Duty	Ford F-150 SSV			2,308		34,265
Trucks, Med Duty	Ford F-250 SD			3,360		49,883
Sweepers	Schwarze A7000			18,140		269,301
Trailers Heavy	Trail-Eze PDLX20TC30			4,071		60,443
Trailers Medium, Light	Big Tex 30SA			143		2,178
Trailers Medium, Light	Safe-Stop TMA9000CLC	<u>; </u>		2,436		36,163
Total Transportation Fund		9	\$	69,746	\$	1,035,505

^{*} Estimated cost is for a planned vehicle, actual cost may be adjusted according to requirements determined by the department

2022 Schedule of Vehicle & Equ	ipment Purchase (Contir	nue	d)			
			E:	stimated	ı	Estimated
Department and Vehicle Use	Vehicle Make/Mode	el	Salv	age Value		Cost *
Parks & Recreation Department						
Equipment, Off-Road, Loaders, Tractors, Graders	Bobcat 5600		\$	4,508	\$	68,558
Vehicle Additions; Equipment, Off-Road, Light duty, Mowers	Mower			-		14,252
Total Parks & Recreation Department		2	\$	4,508	\$	82,810
Castle Rock Water Department						
Equipment, Off-Road, Loaders, Tractors, Graders	Vermeer S800TX			2,145		31,841
Equipment, Off-Road, Loaders, Tractors, Graders	Wachs 77-000-36			6,010		89,225
Heavy Equipment Off-Road, Loaders, Tractors, Graders	Caterpillar 930H			16,200		240,506
Sedan General Purpose	Chevrolet Impala LS			1,962		29,122
SUV, General Purpose, Light Duty	Chevrolet Equinox			1,962		29,122
Trailers Medium, Light	Cornell 3HC-RP-EM16			6,700		99,469
Trucks, Light Duty	Ford F-150 SSV			2,565		38,082
Trucks, Light Duty	Ford F-150			2,285		33,917
Trucks, Light Duty	Ford F-150			2,266		33,640
Trailers Medium, Light	Diamond T 8316 SU			263		3,817
Trailers Medium, Light	Big Tex 14X83			187		2,716
Total Castle Rock Water Department		11	\$	42,545	\$	631,457
Total - All Departments			\$	262,194	\$	3,950,629
3% Contingency						118,519
2017 Vehicle & Equipment Replacement Total		38	\$	262,194	\$	4,069,148

^{*} Estimated cost is for a planned vehicle, actual cost may be adjusted according to requirements determined by the department

2023 Schedule of Vehicle & Eq	uipment Purchase				
		Е	stimated	E	stimated
Department and Vehicle Use	Vehicle Make/Model	Salv	age Value		Cost *
Facilities Department					
Trucks, Light Duty	Ford F-150		2,400		36,872
Trucks, Med Duty	Ford F-350SD		3,400		52,243
Total Facilities Department	2	\$	5,800	\$	89,115
Police Department					
Sedan, Patrol	Ford Interceptor AWD	\$	4,630	\$	68,737
Sedan, Patrol	Ford Utility AWD		4,600		70,682
SUV, Police Patrol	Ford Utility AWD		4,560		70,068
SUV, Police Patrol	Ford Utility AWD		4,630		68,737
SUV, Police Patrol	Ford Utility AWD		4,630		68,737
SUV, Police Patrol	Ford Utility AWD		4,800		73,755
SUV, Police Patrol	Ford Utility AWD		4,800		73,755
SUV, Public Safety, Police, Fire	Ford Utility AWD		3,583		55,052
SUV, Public Safety, Police, Fire	Ford Utility AWD		3,583		55,052
Equipment, Off-Road, Loaders, Tractors, Graders	Polaris Ranger 800		1,569		24,113
SUV, Police Patrol	Ford Utility AWD		4,605		68,363
SUV, Police Patrol	Ford Utility AWD		3,434		50,982
Total Police Department	12	\$	49,424	\$	748,033
Fire Department					
Fire, Response, Ambulance	Ford F450		15,600		253,941
Fire, Response, Ambulance	Dodge Ram 4500		16,424		244,825
SUV, Public Safety, Police, Fire	Ford Expedition		4,147		63,721
Trucks, Med Duty	Chevrolet Silverado 3500		4,147		63,721
Total Fire Department	4	\$		\$	626,208
Development Services					
•	Ford Eccapo SE		2 100		22 201
SUV, General Purpose, Light Duty SUV, General Purpose, Light Duty	Ford Escape SE Chevrolet Equinox		2,108		32,391 32,391
SUV, General Purpose, Light Duty SUV, General Purpose, Light Duty	Ford Escape SE		2,108		
SUV, General Purpose, Light Duty SUV, General Purpose, Light Duty	Ford Escape SE		2,108		32,391
SUV, General Purpose, Light Duty SUV, General Purpose, Light Duty			2,108		32,391
	Ford Escape SE		2,108		32,391
SUV, General Purpose, Light Duty Total Development Services Fund	Ford Escape SE	\$	2,108 12,648	\$	32,391
rotal Development Services rund	6	Þ	12,048	Ş	194,346

^{*} Estimated cost is for a planned vehicle, actual cost may be adjusted according to requirements determined by the department

2023 Schedule of Vehicle & Equipr	ment Purchase (Contin	ued)		
			Estimated		Estimated
Department and Vehicle Use	Vehicle Make/Model	9	Salvage Value		Cost *
Transportation Fund					
Equipment, Off-Road, Loaders, Tractors, Graders	Miller Bobcat 250NT		424		6,508
Heavy Equipment Off-Road, Loaders, Tractors, Graders	Caterpillar 143H		24,605		378,075
Heavy Equipment Off-Road, Loaders, Tractors, Graders	Bobcat S570		2,826		43,421
Trucks Heavy Duty, Snow Removal, Construction Dumps	International 7400		15,480		237,861
Trucks Heavy Duty, Snow Removal, Construction Dumps	International 7400		15,480		237,861
Trucks, Light Duty	Ford F-150		2,200		33,805
Trucks, Med Duty	Ford F-350 SD		4,356		66,933
Trucks, Med Duty	Ford F-350 SD		4,356		66,933
Trucks, Med Duty	Ford F-350 SD		4,356		66,933
Total Transportation Fund		9	\$ 74,083	\$	1,138,330
Parks & Recreation Department					
Equipment, Off-Road, Light duty, Mowers, Carts, Skid Steers, Plows	Toro 4300-D		\$ 5,034	¢	77,350
Equipment, Off-Road, Light duty, Mowers, Carts, Skid Steers, Plows	Scag Tiger Cat STC61V	•	704	Ţ	10,817
Equipment, Off-Road, Light duty, Mowers, Carts, Skid Steers, Plows	John Deere HPX 4X4		860		13,214
Equipment, Off-Road, Loaders, Tractors, Graders	Bobcat S570		3,420		54,092
Equipment, Off-Road, Loaders, Tractors, Graders	Bobcat 5600		4,028		63,709
Equipment, Off-Road, Loaders, Tractors, Graders	Kubota RTV400CI-H		729		11,202
Equipment, Off-Road, Loaders, Tractors, Graders	Kubota RTV400CI-H		729		11,202
Trucks, Light Duty	Ford F150		2,558		39,305
Trucks, Light Duty	Ford F-150		2,180		33,497
Trailers Medium, Light	Haulmark DLX Transpor	t	666		10,535
Total Parks & Recreation Department			\$ 20,908	\$	324,923
Castle Rock Water Department					
SUV, General Purpose, Light Duty	Ford Explorer		2,689		41,320
Trailers Medium, Light	Wacker LTC 4L		906		13,921
Trucks, Light Duty	Ford F-150		2,080		31,962
Trucks, Light Duty	Ford F-150		2,300		35,341
Trucks, Med Duty	Ford F-350 SD		4,940		75,907
Trailers Medium, Light	DW S1A		142		2,178
Total Castle Rock Water Department		6	\$ 13,057	\$	200,629
Total - All Departments		:	\$ 216,238	\$	3,321,584
3% Contingency			-	-	99,648
2018 Vehicle & Equipment Replacement Total		19	\$ 216,238	\$	

^{*} Estimated cost is for a planned vehicle, actual cost may be adjusted according to requirements determined by the department

GOLF FUND

PARKS & RECREATION DEPARTMENT PROJECTS & FUNDING SOURCES BY DEPARTMENT

Project Expenditures	2019	2020	2021	2022	2023	Total
Red Hawk Ridge Golf Carts	\$ 470,513	\$ -	\$ -	\$ -	\$ 484,628	\$ 955,141
Red Hawk Ridge Maintenance Equipment	-	-	499,356	38,606	-	537,962
Parking Lot Improvement	 100,000	120,000	-	-	-	220,000
Total Expenditures by Year	\$ 570,513	\$ 120,000	\$ 499,356	\$ 38,606	\$ 484,628	\$ 1,713,103
Project Funding Sources	2019	2020	2021	2022	2023	Total
Charges for Service	\$ 570,513	\$ 120,000	\$ 499,356	\$ 38,606	\$ 484,628	\$ 1,713,103
Total Funding Sources by Year	\$ 570,513	\$ 120,000	\$ 499,356	\$ 38,606	\$ 484,628	\$ 1,713,103

Funding Source information is intended to identify the revenue that is planned to pay for the capital projects included. While additional revenue is anticipated to be received each year, this information identifies only what is necessary to fund the Capital Improvement Program.



Red Hawk Ridge Golf Course

Project Name Red Hawk Ridge Golf Carts

Project Number: 70-30

Contact: Bob Persichetti, Head Golf Professional 5 Year Historical Total \$ 653,439

 Department:
 Golf
 2019-2023 Total
 955,141

Category: Equipment CIP Project Total (2014-2023): \$ 1,608,580

Type: New Useful Life: 4 Years

Description and Justification

The existing cart fleet at Red Hawk Ridge is entering its fourth year of service and has already exceeded the energy units for the battery warranty. The fleet is also showing signs of wear and tear due to the increasing business levels over the past three years. As the golf course continues to improve product quality and service levels, it is imperative that the golf cart fleet also maintains the same high standard that golfers have come to expect from Red Hawk Ridge.

Staff is also recommending the addition of cart management and GPS features on the replacement fleet as this type of service is expected at the proposed fee levels. Not only will the GPS features provide some added value to the customer experience, it will also give staff the ability to control cart traffic and pace of play remotely which could potentially lead to a reduction of on-course staff necessary for daily operations. Costs for these features are estimated in the amounts shown below.

Expenditures			2019		2020			2021			2022			2023		Total
Equipment		\$	470,513	\$		-	\$		-	\$		-	\$	484,628	\$	955,141
	Total Expenditures	\$	470,513	\$		-	\$		-	\$		-	\$	484,628	\$	955,141
Funding Sources			2019		2020			2021			2022			2023		Total
Charges for Service	2	\$	470,513	\$		-	\$		-	\$		-	\$	484,628	\$	955,141
	Total Funding Sources	ć	470 E12	ć			ć			ć			ć	101 630	ć	OFF 141
	Total Funding Sources	Ş	470,513	Ş		-	\$		-	Ş		-	\$	484,628	Ş	955,141

Operational Impact

Potential reductions of on-course staff may result from replacing the cart fleet with the proposed additional features. Any savings realized from this change will be identified and reflected in future budget planning. Failure to replace the current fleet will result in increase maintenance costs and possible reduction in revenue due to a lower level of service. Additionally, sponsorship opportunities may be available with the updated cart technology and will be determined once the new cart fleet is in operation.

Project Name Red Hawk Ridge Maintenance Equipment

Project Number: 70-30

Contact: Bob Persichetti, Head Golf Professional 5 Year Historical Total \$ 103,484

 Department:
 Golf
 2019-2023 Total
 537,962

Category: Equipment CIP Project Total (2014-2023): \$ 641,446

Type: New Useful Life: 5-10 years

Description and Justification

The typical lifespan for golf course maintenance equipment that is used on a regular basis is approximately five years. Some less frequently used equipment can last more than 10 years. Since golf course conditions are the most important factor for most golfers, having reliable equipment that produces a quality product is critical for the long term health of the golf course fund. Having reliable maintenance equipment also allows staff to provide a consistent product with minimal risk of failure and/or catastrophic turf damage. Staff will continue to perform the necessary preventative maintenance to extend the life of the equipment as long as possible/feasible and will adjust replacement schedules accordingly.

Equipment that is planned for replacement in 2021 is budgeted as a lease/purchase. Payments are planned to occur over a five year period and will result in the golf course owning the equipment upon completion of the payment period. Equipment planned in 2022 is budgeted as a purchase with no financing needed. The amounts and potential financing needs will be evaluated in the future as current maintenance equipment nears the end of its useful life.

		2019		2020		2021	2022	2023		Total
Equipment		\$	-	\$	-	\$ 499,356	\$ 38,606	\$	-	\$ 537,962
	Total Expenditures	\$	-	\$	-	\$ 499,356	\$ 38,606	\$	-	\$ 537,962
Funding Sources		2019		2020		2021	2022	2023		Total
Charges for Service		\$	-	\$	-	\$ 499,356	\$ 38,606	\$	-	\$ 537,962
7	Total Funding Sources	\$	-	\$	-	\$ 499,356	\$ 38,606	\$	-	\$ 537,962

Operational Impact

Savings are not anticipated as a result of replacing maintenance equipment at Red Hawk Ridge golf course. Failure to replace the current equipment will result in increase maintenance costs and possible reduction in revenue due to a lower level of service.

Project Name Parking Lot Improvement

Project Number: 70-10

Contact: Bob Persichetti, Head Golf Professional 5 Year Historical Total \$

 Department:
 Golf
 2019-2023 Total
 220,000

 Category:
 Building
 CIP Project Total (2014-2023): \$ 220,000

Category: Building
Type: Repair
Useful Life: 5 - 10 Years

Description and Justification

The parking lot located at the clubhouse and maintenance facilities at Red Hawk Ridge golf course require regular upkeep. Continual repair of parking lot surfaces ensures a better experience for users and reduces the possibility of significant failures in the parking lot in the future. Planned expenditures accommodate an overlay process and replacement as needed. The actual scope, timing, and process for the parking lot repair will be determined in 2019 to ensure the most appropriate action is taken.

Expenditures		2019	2020	2021		2022		2023		Total
Club House Parking	\$	100,000	\$ 96,000	\$	-	\$	-	\$	-	\$ 196,000
Maintenance Shop Parking		-	24,000		-		-		-	24,000
Total Expenditure	s \$	100,000	\$ 120,000	\$	-	\$	-	\$	-	\$ 220,000
Funding Sources										
· unitaring de united		2019	2020	2021		2022		2023		Total
Charges for Service	\$	100,000	\$ 120,000	\$ 2021	-	\$ 2022	-	\$ 2023	-	\$ 220,000
	\$		\$ 	\$ 2021	-	\$ 2022	-	\$ 2023	-	\$

Operational Impact

No additional revenues or expenditures are anticipated as a result of this project. Long term savings may be realized by undergoing this proactive repair to parking lots, but amounts are not quantifiable at this time.

COMMUNITY CENTER FUND PARKS & RECREATION DEPARTMENT PROJECTS & FUNDING SOURCES BY DEPARTMENT

Project Expenditures	2019	2020	2021		2022	2023	Total
Fitness Equipment Replacement	\$ 320,000	\$ -	\$	-	\$ 300,000	\$	\$ 620,000
Recreation Center HVAC System	250,000	-		-	-		250,000
Parking Lot Improvement	-	225,000		-	-		225,000
Total Expenditures by Year	\$ 570,000	\$ 225,000	\$	-	\$ 300,000	\$	\$ 1,095,000

Project Funding Sources	2019	2020	2021		2022	2023		Total
Sales Tax	\$ 570,000	\$ 225,000	\$	-	\$ 300,000	\$	-	\$ 1,095,000
Total Funding Sources by Year	\$ 570,000	\$ 225,000	\$	-	\$ 300,000	\$	-	\$ 1,095,000

Funding Source information is intended to identify the revenue that is planned to pay for the capital projects included. While additional revenue is anticipated to be received each year, this information identifies only what is necessary to fund the Capital Improvement Program.



Front desk at Recreation Center

Project Name Fitness Equipment Replacement

Project Number: 70-30

Contact: Mike Kilman, Recreation Manager 5 Year Historical Total \$ 1,510,224

Department: Parks & Recreation Department 2019-2023 Total 620,000

Category: Equipment CIP Project Total (2014-2023): \$ 2,130,224

Type: Replacement Useful Life: 3 Years

Description and Justification

The Parks and Recreation Department requests funding for fitness equipment replacement. The cardio equipment was replaced in August of 2016 and will be three years old at the scheduled time of replacement in 2019 according to recommended industry standards. Additionally, in 2019, the stationary bikes used for group cycling classes are in need of replacement since they will be at the end of the projected useful life for that equipment. Equipment replacement is necessary in order to maintain safety and functionality for Recreation Center users.

		2019		2020			2021			2022		2023			Total
t	\$	290,000	\$		-	\$		-	\$	300,000	\$		-	\$	590,000
		30,000			-			-		-			-		30,000
Total Expenditures	\$	320,000	\$		-	\$		-	\$	300,000	\$		-	\$	620,000
		2019		2020			2021			2022		2023			Total
	\$	320,000	\$		-	\$		-	\$	300,000	\$		-	\$	620,000
		320,000	Ś						Ś	300,000	Ś				620,000
	Total Expenditures	Total Expenditures \$	\$ 290,000 30,000 Total Expenditures \$ 320,000 2019 \$ 320,000	\$ 290,000 \$ 30,000 \$ Total Expenditures \$ 320,000 \$ 2019 \$ 320,000 \$	\$ 290,000 \$ 30,000 \$ Total Expenditures \$ 320,000 \$ 2019 2020 \$ 320,000 \$	\$ 290,000 \$ - 30,000 \$ - Total Expenditures \$ 320,000 \$ - 2019 2020 \$ 320,000 \$ -	\$ 290,000 \$ - \$ 30,000 \$ - \$ Total Expenditures \$ 320,000 \$ - \$ 2019 2020 \$ 320,000 \$ - \$	\$ 290,000 \$ - \$ 30,000 \$ - \$ Total Expenditures \$ 320,000 \$ - \$ 2019 2020 2021 \$ 320,000 \$ - \$	\$ 290,000 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 290,000 \$ - \$ - \$ - \$ 30,000 \$ - \$ - \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	\$ 290,000 \$ - \$ - \$ 300,000 30,000 \$ - \$ - \$ 300,000 Total Expenditures \$ 320,000 \$ - \$ - \$ 300,000 2019 2020 2021 2022 \$ 320,000 \$ - \$ - \$ 300,000	\$ 290,000 \$ - \$ - \$ 300,000 \$ 30,000 \$	\$ 290,000 \$ - \$ - \$ 300,000 \$ 30,000 \$ Total Expenditures \$ 320,000 \$ - \$ - \$ 300,000 \$ \$ \$ \$ \$ 2019 2020 2021 2022 2023 \$ 320,000 \$ - \$ - \$ - \$ 300,000 \$	\$ 290,000 \$ - \$ - \$ 300,000 \$ - \$ - \$ 300,000 \$ - \$ - \$ 300,000 \$ - \$ - \$ 300,000 \$ - \$ - \$ 300,000 \$ - \$ - \$ 300,000 \$ - \$ - \$ 300,000 \$ - \$ - \$ 300,000 \$ - \$ - \$ 300,000 \$ - \$ - \$ 300,000 \$ - \$ - \$ 300,000 \$ - \$ - \$ 300,000 \$ - \$ - \$ 300,000 \$ - \$ - \$ 300,000 \$ - \$ - \$ 300,000 \$ - \$ - \$ 300,000 \$ - \$ - \$ 300,000 \$ - \$ - \$ 300,000 \$ - \$ - \$ - \$ 300,000 \$ - \$ - \$ - \$ 300,000 \$ - \$ - \$ - \$ 300,000 \$ - \$ - \$ - \$ 300,000 \$ - \$ - \$ - \$ 300,000 \$ \$ - \$ - \$ - \$ 300,000 \$ - \$ - \$ - \$ - \$ 300,000 \$ - \$ - \$ - \$ - \$ - \$ 300,000 \$ - \$ - \$ - \$ - \$ - \$ 300,000 \$ \$ - \$ - \$ - \$ - \$ - \$ 300,000 \$ \$ - \$ - \$ - \$ - \$ - \$ 300,000 \$ \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	\$ 290,000 \$ - \$ - \$ 300,000 \$ - \$ Total Expenditures \$ 320,000 \$ - \$ - \$ 2019 2020 2021 2022 2023 \$ 320,000 \$ - \$ - \$

Operational Impact

No future expenditures are anticipated as a result of this project. By keeping the amenities in good working condition and updating when necessary, these general improvements contribute to the overall facility and may attract additional patronage.

Project Name Recreation Center HVAC System

Project Number: 70-30

Contact: Mike Kilman, Recreation Manager 5 Year Historical Total \$ 755,112

Department: Parks & Recreation Department 2019-2023 Total 250,000

Category: Equipment CIP Project Total (2014-2023): \$ 1,005,112

Type: Replacement Useful Life: 20 Years

Description and Justification

The Parks and Recreation Department is requesting funds for the Innovent HVAC unit, which was installed in 2005 that provides cooling, heating and dehumidification of the leisure pool, to be replaced in 2019. Typically, the lifespan for a pool unit such as this is fifteen to twenty years depending on how the unit was maintained. However, due to the harsh environment, rust has formed on the heater cabinet and return air cabinets and the controls continually break down. Over the years, several companies have worked on the controls for this unit, with each company doing their own rewiring the unit no longer resembles the diagram and it has been difficult to trouble shoot when repairs are needed. This repair will be required to maintain the level of service and to avoid any unnecessary shutdowns due to an unexpected failure.

Expenditures		2019	2020		2021		2022		2023		Total
Recreation Center HVAC System		\$ 250,000	\$	-	\$	-	\$	-	\$	-	\$ 250,000
	Total Expenditures	\$ 250,000	\$	-	\$	-	\$	-	\$	-	\$ 250,000
Funding Sources		2019	2020		2021		2022		2023		Total
Sales Tax		\$ 250,000	\$	-	\$	-	\$	-	\$	-	\$ 250,000
	Total Funding Sources	\$ 250,000	\$	-	\$	-	\$	-	\$	-	\$ 250,000

Operational Impact

Replacing this unit with a newer, more energy efficient unit is expected to reduce costs for both maintenance and operations. Any savings will be determined after the new unit is in service and will be reflected in future budget information.

Project Name Parking Lot Improvement

Project Number: 70-10

> 5 Year Historical Total Contact: Mike Kilman, Recreation Manager

Department: Parks & Recreation Department 2019-2023 Total 225,000 CIP Project Total (2014-2023): \$ 225,000

Category: Building Repair Type: Useful Life: 5 - 10 Years

Description and Justification

The parking lot located at the Castle Rock Recreation Center requires regular upkeep. Continual repair of parking lot surfaces ensures a better experience for users and reduces the possibility of significant failures in the parking lot in the future. Planned expenditures accommodate an overlay process and replacement as needed. The actual scope, timing, and process for the parking lot repair will be determined in 2019 and future year budgeting will be adjusted as necessary.

Expenditures		2019		2020	2021		2022		2023		Total
Recreation Center F	Parking Lot	\$	-	\$ 225,000	\$	-	\$	-	\$	-	\$ 225,000
	Total Expenditures	\$	-	\$ 225,000	\$	-	\$	-	\$	-	\$ 225,000
Funding Sources		2019		2020	2021		2022		2023		Total
Sales Tax		\$	-	\$ 225,000	\$	-	\$	-	\$	-	\$ 225,000

Total Funding Sources	\$ - \$	225,000 \$	- \$	- \$	- \$	225,000

Operational Impact

No additional revenues or expenditures are anticipated as a result of this project. Long term savings may be realized by undergoing this proactive repair to parking lots, but amounts are not quantifiable at this time.