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806351 - Land Development and Capital Construction

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Originating Year:	1998	Project Type:	Water	De	partment:	270 - Env	rironmental Serv	vices	
Planned Completion Year:	Ongoing	Category:	Capital	Pro	oject Manager:	Joseph D	h De La Cruz		
Project Description/Scope	/Purpose			Proje	ct Financial S	ummary			
This project provides support for construction activities involved with land development and capital construction projects. The project will allow for the purchase of construction services, miscellaneous equipment parts and repairs, and general supplies. In addition, the project will allow for the rental or lease of specialized equipment to support construction activities.					Pr	oject Costs	Revenues	Operating Cos	
					Actual	2,958,229			
The project will allow for the purchase of water meters and meter box/lids, to be used for new development and capital projects.					23	442,236	-		
Depending on the meter size, the cost range to purchase individual meters is between \$150 to \$15,000 each. The water meter budget is based on the rate of development activity.				ter meter 2023-	24	400,000			
adget is based on the rate of development detraity.					25	400,000			
roject Evaluation and An	alysis			2025-	26	124,184	-		
This project allows staff to purchase materials, equipment, and meters ahead of time, so when new developments are being constructed the time period for them to be occupied is not delayed.					27	127,910	-		
					28	131,747	-		
In general, meters and meter appurtenances are frequently purchased in bulk, which allows the City to lower its purchasing cost due to better pricing. The cost of the water meters and construction activities is paid by developers or by capital project allocated funding. This project allows the City to purchase and control the type of meters and water system appurtenances installed.					29	135,700			
					30	139,771	-		
Based on future development and capital projects that have been approved by the City, staff has estimated an increase in the need to order meters and other construction material for project support through FY 2024/25.					31	143,964	-		
					32	148,283	-		
Fiscal Impact				2032-	33	152,731	-		
This project is funded by utility fees collected from developers for the cost to purchase water meters, vaults, and other materials.					34	157,313	-		
unding Sources				2034-	35	162,032	-		
/ater Supply and Distribution Fund			2035-	36	166,893	5			
				2036-	37	171,900	-		
	ans and Goals					177,057	-		
M - Environmental Manageme M - Environmental Manageme					39	182,369	-		
M - Environmental Manageme	III - LIVI-I. Adequate Wate	ouppies		2039-	40	187,840	-		
				2040-	41	193,474	-		
				2041-	42	199,278	-		
				2042-	43	205,257	-		
				20 Ye	ar Total	3,707,703	-		
				Gran	d Total	7,108,168			

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834380 - Fire Hydrant Replacement

Originating Year:	2019	Project Type:	Project Type: Water		nent:	270 - Env	vironmental Ser	vices
Planned Completion Year:	Ongoing	Category:	Capital	Project	Project Manager:		Joseph De La Cruz	
Project Description/Scope	/Purpose			Project Fi	nancial Su	Immary		
The City has approximately 3,500 fire hydrants. The estimated cost of replacement per hydrant is \$1,600 for parts, with labor performed by City crews. This request for annual funding will enable the City to continue the hydrant replacement program at an approximate rate of six to seven per month.					Pro	ject Costs	Revenues	Operating Cost
						265,125	•	
	2022-23		120,000	-				
Project Evaluation and Analysis This is a proactive hydrant replacement program, which allows City crews to replace old hydrants that have reached the end of their useful life. The City is anticipated to replace over 80 old rusted out hydrants annually. The project will ensure the City attends to fire hydrant replacements before possible complete failure of hydrants (inability to use the hydrant) during firefighting activities.						-		
						60,000		
						60,000	-	
				2026-27		60,000	-	
Fiscal Impact This project is funded by the Water Supply and Distribution Fund. The ongoing cost of painting the hydrants every few years is included in the Department's operating budget.						60,000	-	
						60,000	-	
				2029-30		60,000	-	
Funding Sources Water Supply and Distribution Fund				2030-31		60,000	-	
ater Supply and Distribution F	una			2031-32		60,000		
ans and Goals				2032-33		60,000		
M - Environmental Management - EM-3: Reliable and Safe Water Distribution				2033-34		60,000		
				2034-35		60,000	-	
				2035-36		60,000	-	
				2036-37		60,000	-	
				2037-38		60,000	-	
				2038-39		60,000	-	
				2039-40		60,000		
				2040-41		60,000		
				2041-42		60,000		
				2042-43		60,000		
				20 Year Tot	al	1,140,000	•	
				Grand Tota		1,525,124		

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825301 - Pressure Reducing Valve Replacement

Originating Year:	2006	Project Type:	Project Type: Water		270 - En	vironmental Ser	vices
Planned Completion Year:	Ongoing	Category:	Infrastructure	Project Manage	r: Joseph D	Joseph De La Cruz	
Project Description/Scope	/Purpose			Project Financia	I Summary		
This project will replace, repair, and evaluate the City's 60 existing pressure-reducing valves (PRVs). In addition, this project will connect the PRVs to the Supervisory Control and Data Acquisition (SCADA) System to allow City staff to remotely monitor and control water system pressures, turn valves on and off quickly in emergencies, and in general, better manage and maintain water quality. PRVs are an integral part of the water distribution system as they maintain balanced water pressure between the City's three pressure zones.					Project Costs	Revenues	Operating Cost
					887,045		
					200,000	-	
Annual budgeted amounts are based on the historical average cost of repairing two PRVs per year. Actual costs will vary depending upon the size of the valve and whether the work involves total replacement or minor repair. As part of the annual evaluations, staff will determine whether each PRV is essential to the overall system. If certain PRVs are determined to be unnecessary, staff will remove them from the system.							
					205,000	-	
						-	
				2026-27	210,000		
roject Evaluation and Ana				2027-28		-	
This project is necessary to maintain existing essential infrastructure of the Water Utility and is referenced in the City's Water Utility Master Plan 2.1.2. Properly functioning PRVs help reduce the number of main breaks caused by high pressure. Proper functioning PRVs are necessary to maintain pressure at customers' premises to avoid pressure spikes that could cause water leaks and water heater malfunctioning.					215,000	-	
					-	-	
	2030-31	220,000					
scal Impact				2031-32		-	
This project is funded by the Water Supply and Distribution Fund revenues. This approach will result in savings of \$1.167 million over 20 years. A major cost factor in this project is the cost of the material required such as valves, fittings and electronic				2032-33	225,000	-	
mponents that require to be re	2033-34	-	-				
unding Sources	2034-35	230,000	-				
ater Supply and Distribution F	und			2035-36	-		
				2036-37	235,000	-	
ans and Goals				2037-38	-	-	
M - Environmental Manageme	nt - EM-3: Reliable and Sa	fe Water Distribution	er Distribution		240,000	-	,
				2039-40	-		
				2040-41	245,000	-	
				2041-42		-	
				2042-43	250,000	-	
				20 Year Total	2,275,000		
				Grand Total	3,362,045		