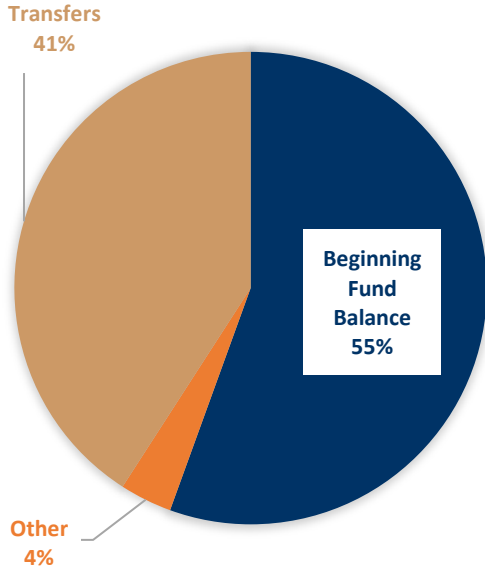


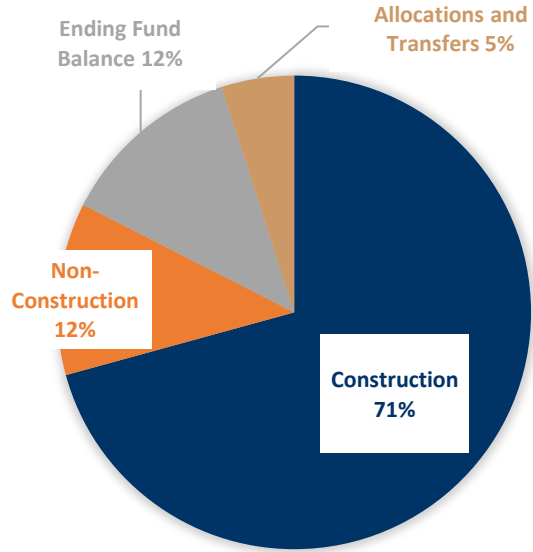
SANITARY SEWER SYSTEM

2023-2027 Adopted Capital Improvement Program

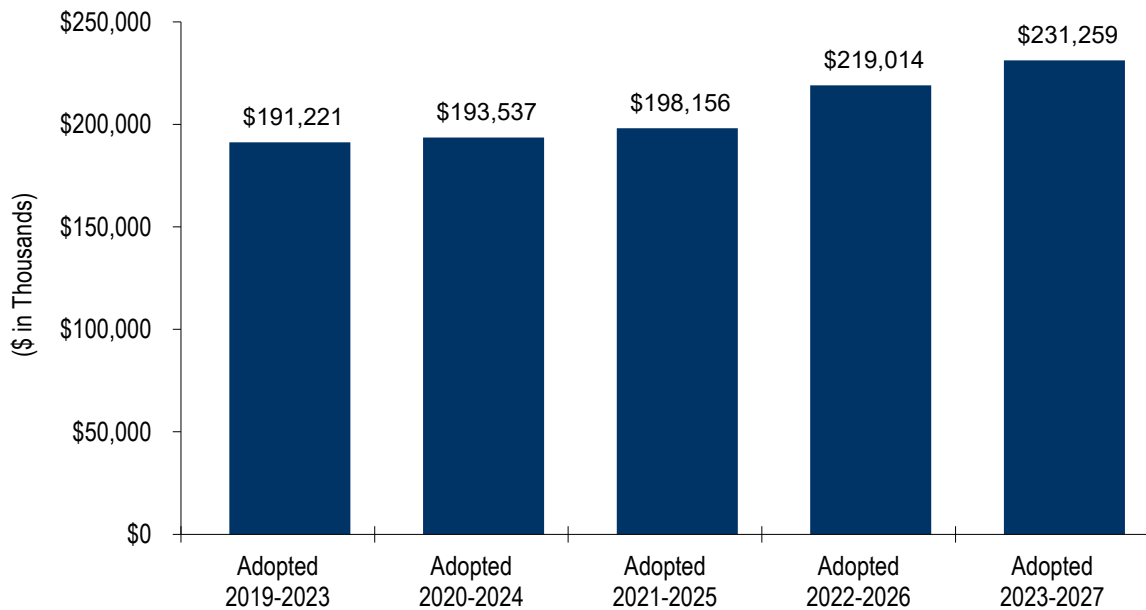
**2022-2023 ADOPTED
SOURCE OF FUNDS**



**2022-2023 ADOPTED
USE OF FUNDS**

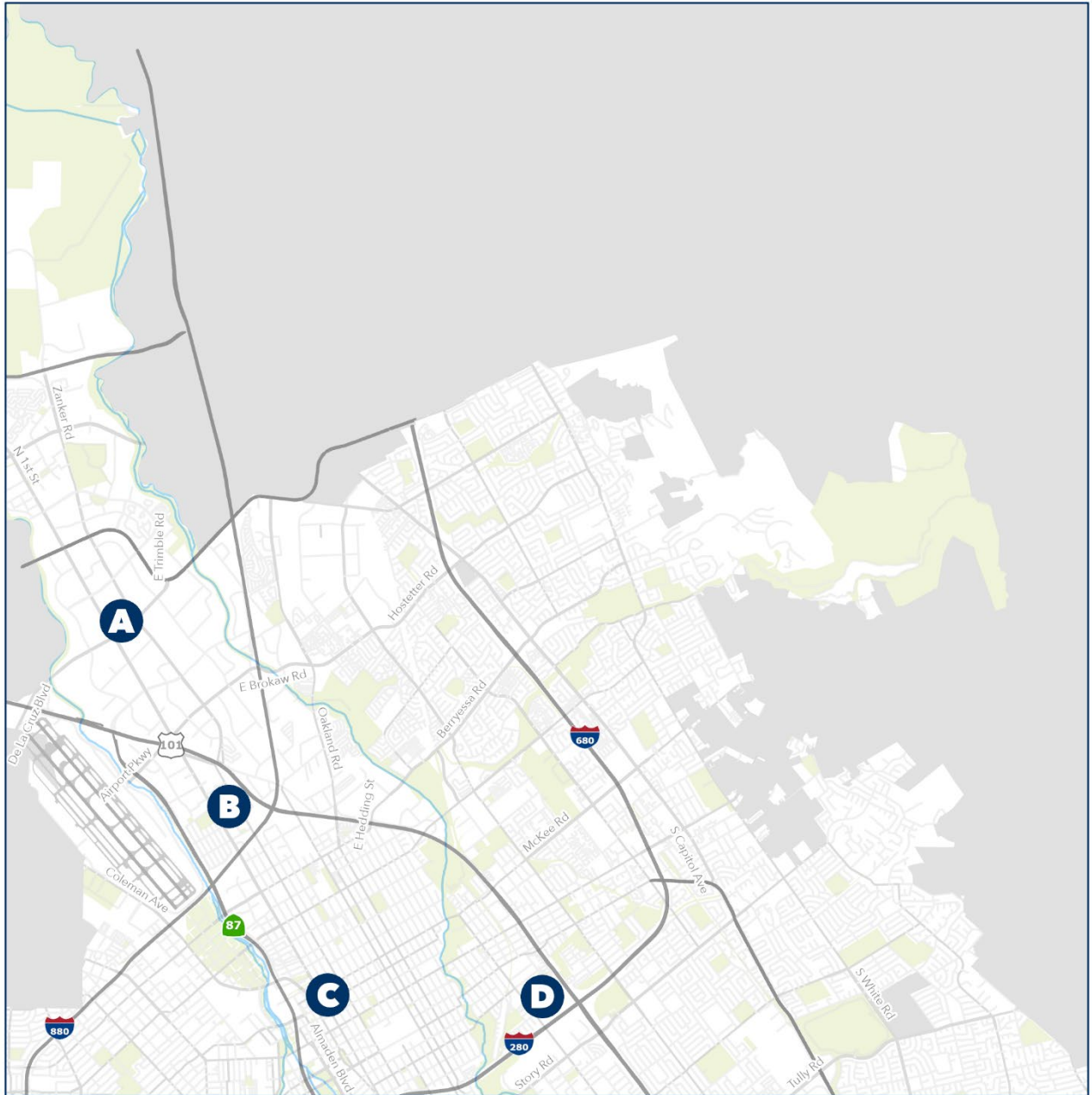


CIP History



Sanitary Sewer 2023-2027 Adopted Capital Improvement Program

North East

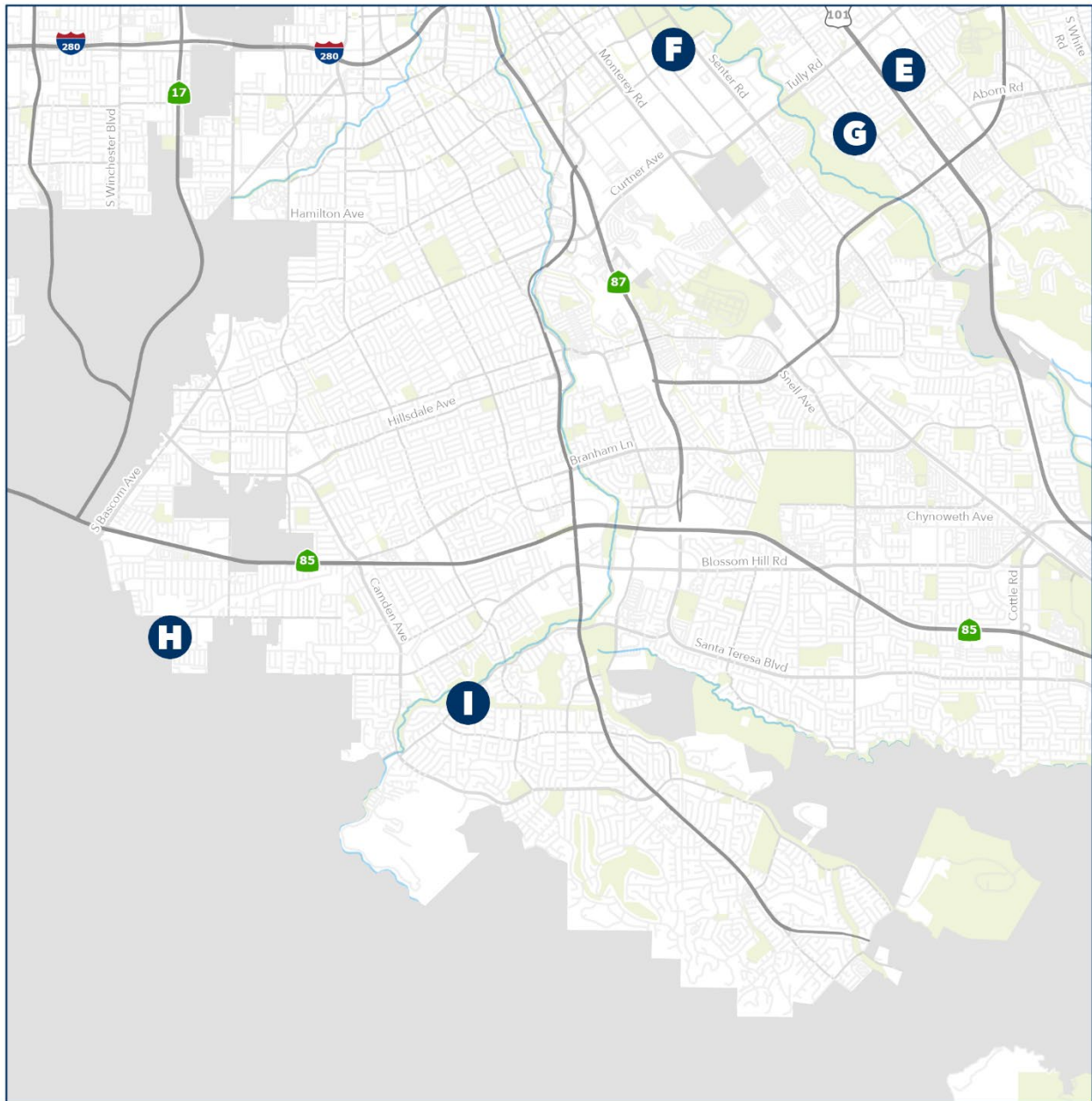


- A** North 1st St Sanitary Sewer Improvement
- B** 60" Brick Interceptor, Phase VIA and VIB
- C** Fourth Major Interceptor, Phase VIIA
- D** McLaughlin Ave-24th St Sanitary Sewer Improvement

Sanitary Sewer

2023-2027 Adopted Capital Improvement Program

South West



- E Fontaine Rd Sanitary Sewer Improvement
- F Almaden Supplement Sewer Rehabilitation (North)
- G McLaughlin Ave-Idlewood Dr Sanitary Sewer Improvement
- H Blossom Hill Road and Leigh Avenue
- I Coleman Road Sanitary Sewer Improvements - Phase 3

Sanitary Sewer System

2023-2027 Adopted Capital Improvement Program

OVERVIEW

INTRODUCTION

The Sanitary Sewer System of the City of San José consists of approximately 2,030¹ miles of sewer mains ranging in diameter from 6 to 90 inches. The system serves the City, as well as several other jurisdictions, including West Valley Sanitation District (WVSD), City of Santa Clara, County Sanitation Districts 2-3, and Burbank Sanitation District, and conveys sewage to the San José-Santa Clara Regional Wastewater Facility (RWF). The replacement value of the system is estimated at approximately \$3.5 billion.

SANITARY SEWER SYSTEM PUBLIC INFRASTRUCTURE	
MILES OF SEWER MAINS	
6" TO 8" in diameter	1,580
10" TO 12" in diameter	200
OVER 12" in diameter	250
NUMBER OF MANHOLES	39,469
NUMBER OF PUMP STATIONS	17

The 2023-2027 Adopted Capital Improvement Program (CIP) provides funding of \$231.3 million, of which \$85.6 million is allocated in 2022-2023. This program is part of the Environmental and Utility Services City Service Area (CSA) and supports the following outcome: *Reliable Utility Infrastructure*.

PROGRAM PRIORITIES AND OBJECTIVES

The 2023-2027 Adopted Sanitary Sewer System CIP supports the priorities and objectives of the Environmental and Utility Services CSA by maintaining the following strategic priorities:

- Ensure adequate capacity within the system and to reduce Sanitary Sewer Overflows (SSOs);
- Support the goal of preventing SSOs by providing sufficient system capacity and maintaining system structure integrity;
- Manage system capacity, assess the system's condition, and construct sewer improvement projects;
- Improve sewer capacity in substantially built-out areas and less-developed areas to accommodate economic development; and
- Rehabilitate existing sewers with a higher priority given to those with extensive, severe deterioration, and evaluated alongside race and income data of neighborhoods served by deteriorating infrastructure to ensure that rehabilitation efforts are equitably provided to the fullest extent legally permissible.

The Sanitary Sewer System CIP is guided by several interrelated plans and chief among them is the Envision San José 2040 General Plan (General Plan). The General Plan provides a guide for all capital improvement programs to align public infrastructure investment with San José's plans for future growth. This means that the projects included in the Sanitary Sewer System CIP ensure adequate sewer capacity and reliability to safely convey sewage city-wide, as well as within those areas designated for future development. The land uses and growth included in the General Plan were also used in the development of the Sanitary Sewer Master Plan (Master Plan) that was completed in early 2013.

¹ Total length was updated in 2020 based on the latest GIS data to exclude sewer mains that were abandoned or owned by adjacent agencies or private developers.

Sanitary Sewer System

2023-2027 Adopted Capital Improvement Program

OVERVIEW

PROGRAM PRIORITIES AND OBJECTIVES

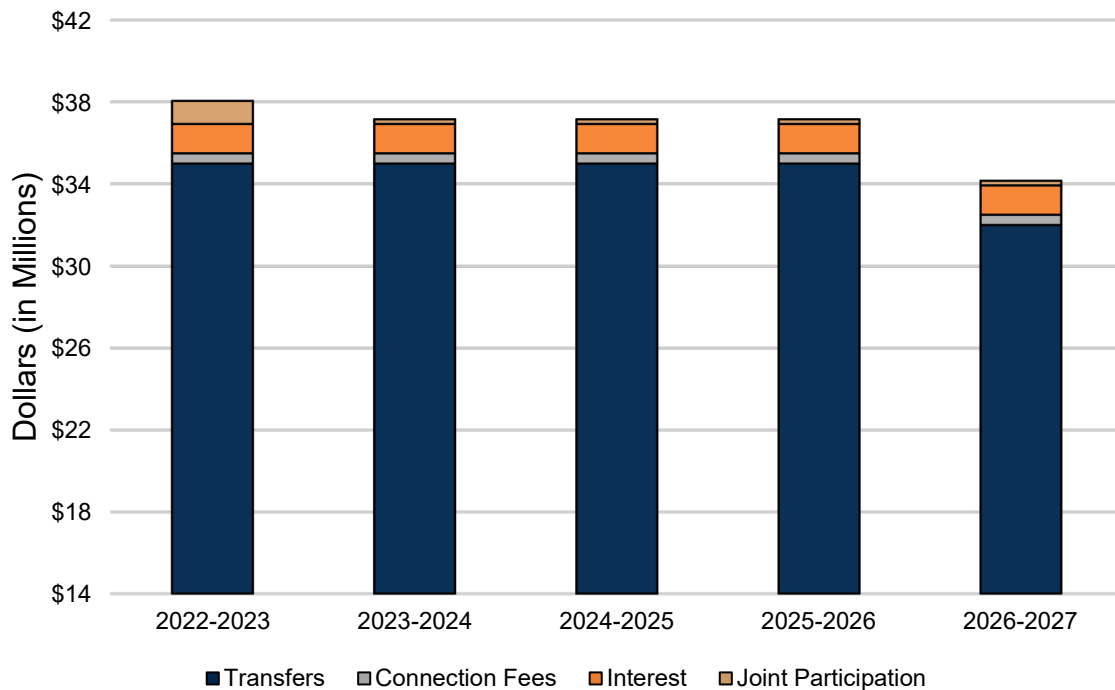
The Master Plan helped identify and address trunk sewer capacity deficiencies in the existing system and forecast additional capacity-enhancing projects required to meet future demands in the context of the General Plan.

As identified in the Status Report on Deferred Maintenance and Infrastructure Backlog accepted by the Transportation and Environment Committee on April 4, 2022, the Sanitary Sewer Collection System has estimated unfunded needs of approximately \$900,000 per year. The City will continue to evaluate staffing levels, resources and overall strategic capital improvement priorities at both the RWF and the sanitary collection system to address the remaining unfunded needs in the future.

SOURCES OF FUNDING

The 2023-2027 Adopted CIP provides funding of \$231.3 million, of which \$85.6 million is allocated in 2022-2023. Revenue for this CIP is mainly derived from the following sources: transfers from the Sewer Service and Use Charge (SSUC) Fund, Sanitary Sewer Connection Fees, and Joint Participation contributions from other jurisdictions served by the Sanitary Sewer System for the use of San José sewer lines. Among these revenues, the SSUC Fund transfer continues to be the primary funding source for the program.

Summary of Revenues



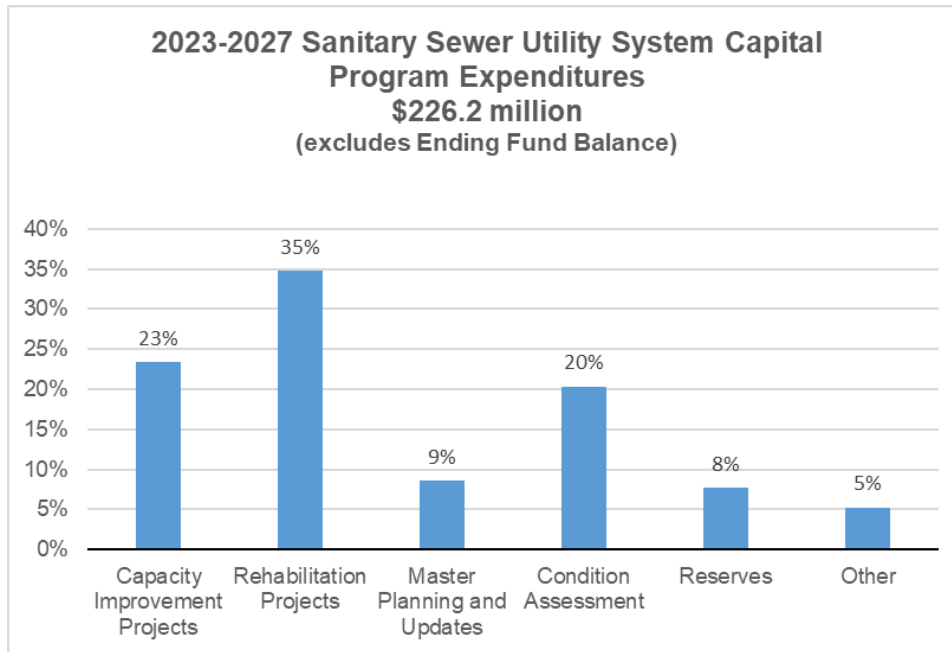
Sanitary Sewer System

2023-2027 Adopted Capital Improvement Program

OVERVIEW

PROGRAM HIGHLIGHTS

The Sanitary Sewer System Capital Program's expenditures are organized to show the use of funds in several categories. The following highlights the major projects in the program. For further information on the program's individual projects, please refer to the Detail Pages.



Capacity Improvement

Slightly less than one quarter of the budget, or \$52.8 million, is programmed in this Adopted CIP to improve capacity of the Sanitary Sewer system. These capacity improvement projects include \$21.2 million for site-specific projects, and \$31.6 million for Immediate Replacement and Diversion Projects. Projects are selected using a computerized sewer flow model (which uses the General Plan to project sewage flows in the system), City maintenance records, and flow monitoring to identify sewer capacity constraints.



Sierra Road Sanitary Sewer Improvement
(manhole installation)

Sanitary Sewer System

2023-2027 Adopted Capital Improvement Program

OVERVIEW

PROGRAM HIGHLIGHTS

Funding totaling \$5.5 million is programmed in this Adopted CIP for the North Interceptor System to manage and complete the design of the Fourth Major Interceptor, Phase VIIA. The North Interceptor System is a collection of very large sanitary sewer pipes with diameters ranging from 54 to 90 inches. In general, an interceptor is a large pipe serving as a primary sewage collector. Interceptors carry flows from the sub-collector sewers in the drainage basin to the point of treatment or disposal of the wastewater. The North Interceptor System Master Plan, originally drafted in 1986, was updated in 2002 and includes an assessment of the hydraulic condition of the large sewers, a determination of the level of corrosion in the pipelines, and validated capacity of the system. The final recommendations for programmed rehabilitation of existing sewer interceptors and construction of new sewer interceptors have been incorporated into the Adopted CIP and will be referred to in the preparation of subsequent CIPs. Capital improvements to the interceptor system consist of large, interrelated projects that must be staged in a specified sequence for logical construction of the system.

Presently, the City has three major sewer interceptors in the North Interceptor System that originate at the intersection of Seventh and Empire Streets and continue northward to the RWF, mostly along the full length of Zanker Road. A new, multi-phased fourth major interceptor is also under construction with five of seven phases completed. The construction of the Fourth Street 84-inch Interceptor, Phase VIA, is anticipated to be completed in spring 2023. When completed, the fourth major interceptor will allow one of the three older interceptors to be removed from service during dry weather periods for the purpose of routine maintenance or rehabilitation. Such flexibility is important and currently not available in all reaches of the system.

Rehabilitation

A total of \$108.7 million is programmed for sewer rehabilitation and replacement in other areas of the City, mostly targeted toward older neighborhoods facing structural deterioration or changes in sewage flow patterns. Rehabilitation projects are selected based on hydrogen sulfide studies that analyze pipe corrosion, condition assessment studies, video inspections, maintenance records and reports, and actual pipe failures, whether due to pipe corrosion or other physical deficiencies. The City is also evaluating the incorporation of race and income data of neighborhoods served by deteriorating infrastructure as an additional factor, to the fullest extent legally permissible, to ensure that rehabilitation projects are equitably provided to the community.

This funding also is used to support the Exfiltration Abatement Program, a program implemented across a variety of ongoing repair and rehabilitation projects to assess and prioritize possible exfiltration risks. This program facilitates the search and repair of damaged sewer mains in order to prevent leakage into adjacent storm sewer mains.

In addition, rehabilitation funding will be used to support the Sanitary Sewer Interceptor Management program with an annual budget of \$3.0 million for the next four years, for a total of \$12.0 million. Condition assessments will be performed and will include removing accumulated debris, cleaning and evaluating of the interceptors, and then prioritizing the portions of pipe that may require rehabilitation and/or repair. The program will also include the evaluation and rehabilitation of the City's soil bed filters that assist with removing odors and corrosive sewer gases from the interceptors.

Sanitary Sewer System

2023-2027 Adopted Capital Improvement Program

OVERVIEW

PROGRAM HIGHLIGHTS

Other Project Highlights

The Master Planning Program actively monitors and manages sewer system capacity needs using a computerized hydraulic model of the San José sewer system, supported by sewer flow monitoring that collects flow data at strategic locations within the system. The Master Planning Program continues to enhance the accuracy of the computerized model by incorporating land use changes and updated sewer and flow data. The Master Planning Program also supports economic development in the City by providing sewer capacity review and planning using the models.

The Sanitary Sewer Condition Assessment Program, initiated in 2009, is an ongoing program to assess the structural integrity of the collection system including pipes, force mains, manholes, junction structures, and pump stations. Data collected through visual and closed-circuit television inspection and as-built information will be reviewed, analyzed, and prioritized based on a risk analysis approach using information such as pipe size, location, design flow, physical conditions, and maintenance histories. With this information, rehabilitation budgets and preventive maintenance and improvement programs can be planned and prioritized.

MAJOR CHANGES FROM THE 2022-2026 ADOPTED CIP

The overall size of the Sanitary Sewer System CIP has increased by \$12.3 million from \$219.0 million in the 2022-2026 Adopted CIP to \$231.3 million in the 2023-2027 Adopted CIP. The changes are primarily attributable to a number of new sewer improvement projects included in the Adopted CIP offset by projects being completed and are therefore no longer funded in the future, or to projects that have been otherwise shifted out of the five-year planning horizon.

Major Changes to Project Budgets

The following table outlines the most significant changes to project budgets, including new/augmented allocations and reduced/eliminated allocations.

Project	Incr/(Decr)
North 1st Street Sanitary Sewer Improvement	\$7.0 million
McLaughlin Ave-Idlewood Dr Sanitary Sewer Improvement	\$3.7 million
Coleman Road Sanitary Sewer Improvement	\$2.4 million
McLaughlin Ave-24th Street Sanitary Sewer Improvement	\$2.4 million
Fontaine Road Sanitary Sewer Improvement	\$1.5 million
Immediate Replacement and Diversion Projects	\$0.9 million

OPERATING BUDGET IMPACT

There are no additional maintenance and operating costs associated with the projects in the 2023-2027 Adopted CIP.

Sanitary Sewer System

2023-2027 Adopted Capital Improvement Program

OVERVIEW

COUNCIL-APPROVED REVISIONS TO THE PROPOSED CAPITAL IMPROVEMENT PROGRAM

Changes to the Proposed Capital Improvement Program were brought forward in the Mayor's June Budget Message for Fiscal Year 2022-2023 and approved by the City Council on June 21, 2022. This included rebudgeting of unexpended funding for projects and other budget adjustments totaling \$6.5 million in [Manager's Budget Addendum #42](#), the largest of which includes Almaden Supplement Sewer Rehabilitation (\$3.1 million), Rehabilitation of Sanitary Sewer Pump Stations (\$1.7 million), Fourth Major Interceptor, Phase VIIA (\$500,000), 60 inch Brick Interceptor, Phase VIA and VIB (\$500,000), and Blossom Hill Road and Leigh Avenue Sanitary Sewer Improvement (\$275,000).

For more information, please refer to the [Mayor's June Budget Message for Fiscal Year 2022-2023](#), located in the Appendices of this document, and [Manager's Budget Addendum #43](#) which was incorporated into the Mayor's June Budget Message.

Sanitary Sewer System
2023-2027 Adopted Capital Improvement Program
Source of Funds (Combined)

	Estimated						
	2021-2022	2022-2023	2023-2024	2024-2025	2025-2026	2026-2027	5-Year Total*
Sewer Service and Use Charge Capital Improvement Fund (545)							
Beginning Balance	52,413,087	45,196,087	6,660,087	226,987	875,987	2,649,987	45,196,087
Reserve for Encumbrance	13,119,201						
Transfers and Reimbursements							
Transfer from the Sewer Service and Use Charge Fund (541)	35,000,000	35,000,000	35,000,000	35,000,000	35,000,000	32,000,000	172,000,000
TOTAL Transfers and Reimbursements	35,000,000	35,000,000	35,000,000	35,000,000	35,000,000	32,000,000	172,000,000
Revenue from Use of Money and Property							
Interest Income	1,806,000	1,375,000	1,375,000	1,375,000	1,375,000	1,375,000	6,875,000
TOTAL Revenue from Use of Money and Property	1,806,000	1,375,000	1,375,000	1,375,000	1,375,000	1,375,000	6,875,000
Revenue from Local Agencies							
Sanitary Sewer Joint Participation-	1,000,000	1,020,000	120,000	120,000	120,000	120,000	1,500,000
TOTAL Revenue from Local Agencies	1,000,000	1,020,000	120,000	120,000	120,000	120,000	1,500,000
Total Sewer Service and Use Charge Capital Improvement Fund (545)	103,338,288	82,591,087	43,155,087	36,721,987	37,370,987	36,144,987	225,571,087

* The 2023-2024 through 2026-2027 Beginning Balances are excluded from in FIVE-YEAR TOTAL SOURCE OF FUNDS to avoid multiple counting of the same funds.

Sanitary Sewer System
2023-2027 Adopted Capital Improvement Program
Source of Funds (Combined)

	Estimated						
	2021-2022	2022-2023	2023-2024	2024-2025	2025-2026	2026-2027	5-Year Total*
Sanitary Sewer Connection Fee Fund (540)							
Beginning Balance	2,700,506	2,352,506	1,887,506	1,122,606	903,606	684,606	2,352,506
Reserve for Encumbrance	256,980						
Revenue from Use of Money and Property							
Interest Income	79,000	57,000	57,000	57,000	57,000	57,000	285,000
TOTAL Revenue from Use of Money and Property	79,000	57,000	57,000	57,000	57,000	57,000	285,000
Revenue from Local Agencies							
Sanitary Sewer Joint Participation-	110,000	110,000	110,000	110,000	110,000	110,000	550,000
TOTAL Revenue from Local Agencies	110,000	110,000	110,000	110,000	110,000	110,000	550,000
Fees, Rates and Charges							
Sanitary Sewer Connection Fees	500,000	500,000	500,000	500,000	500,000	500,000	2,500,000
TOTAL Fees, Rates and Charges	500,000	500,000	500,000	500,000	500,000	500,000	2,500,000
Total Sanitary Sewer Connection Fee Fund (540)	3,646,486	3,019,506	2,554,506	1,789,606	1,570,606	1,351,606	5,687,506
TOTAL SOURCES	106,984,774	85,610,593	45,709,593	38,511,593	38,941,593	37,496,593	231,258,593

* The 2023-2024 through 2026-2027 Beginning Balances are excluded from in FIVE-YEAR TOTAL SOURCE OF FUNDS to avoid multiple counting of the same funds.

Sanitary Sewer System
2023-2027 Adopted Capital Improvement Program
 Use of Funds (Combined)

	Estimated 2021-2022	2022-2023	2023-2024	2024-2025	2025-2026	2026-2027	5-Year Total*
<u>Sanitary Sewer System</u>							
60 inch Brick Interceptor, Phase VIA and VIB	7,364,780	500,000					500,000
Blossom Hill Road and Leigh Avenue Sanitary Sewer Improvement	98,000	4,697,000	500,000				5,197,000
Bollinger Road - Moorpark Avenue - Williams Road Sanitary Sewer Improvements	80,000						
Coleman Road Sanitary Sewer Improvements - Phase III		300,000	2,100,000				2,400,000
Fontaine Rd Sanitary Sewer Improvement		300,000	1,200,000				1,500,000
Fourth Major Interceptor, Phase VIIA		5,500,000					5,500,000
Immediate Replacement and Diversion Projects	7,221,990	6,800,000	4,350,000	6,800,000	6,800,000	6,800,000	31,550,000
McLaughlin Ave-24th Street Sanitary Sewer Improvement		300,000	2,100,000				2,400,000
McLaughlin Ave-Idlewood Dr Sanitary Sewer Improvement		400,000	3,200,000	100,000			3,700,000
Miscellaneous Capacity Improvements	529,156						
Sierra Road Sanitary Sewer Improvement	2,391,900						
Westmont Avenue and Harriet Avenue Sanitary Sewer Improvements	447,616	50,000					50,000
Capacity Improvement Projects	18,133,441	18,847,000	13,450,000	6,900,000	6,800,000	6,800,000	52,797,000
Almaden Supplement Sewer Rehabilitation (North)	48,000	3,050,000					3,050,000
Cast Iron Pipe - Remove and Replace	7,625,088	6,000,000	4,000,000	5,000,000	5,000,000	5,000,000	25,000,000
Condition Assessment Sewer Repairs	6,821,297	7,000,000	5,000,000	6,000,000	6,000,000	6,000,000	30,000,000

* The 2022-2023 through 2025-2026 Ending Balances are excluded from the FIVE-YEAR TOTAL USE OF FUNDS to avoid multiple counting of the same funds.

Sanitary Sewer System

2023-2027 Adopted Capital Improvement Program Use of Funds (Combined)

	Estimated 2021-2022	2022-2023	2023-2024	2024-2025	2025-2026	2026-2027	5-Year Total*
Inflow and Infiltration Reduction	200,000	200,000	200,000	200,000	200,000	200,000	1,000,000
North 1st Street Sanitary Sewer Improvements		1,000,000	5,000,000	1,000,000			7,000,000
Rehabilitation of Sanitary Sewer Pump Stations	54,008	1,650,000					1,650,000
Reinforced Concrete Pipe Rehabilitation Program	500,000	500,000	500,000	500,000	500,000	500,000	2,500,000
Sanitary Sewer Interceptor Management Program	3,000,000	3,000,000	3,000,000	3,000,000	3,000,000		12,000,000
Urgent Rehabilitation and Repair Projects	10,128,855	7,000,000	4,500,000	5,000,000	5,000,000	5,000,000	26,500,000
Rehabilitation Projects	28,377,248	29,400,000	22,200,000	20,700,000	19,700,000	16,700,000	108,700,000
Sanitary Sewer - Construction	46,510,690	48,247,000	35,650,000	27,600,000	26,500,000	23,500,000	161,497,000
Fee Administration - Sanitary Sewer	85,000	85,000	85,000	85,000	85,000	85,000	425,000
Flow Monitoring Program (Master Planning)	725,646	650,000	650,000	650,000	650,000	656,000	3,256,000
Infrastructure - Sanitary Sewer Condition Assessment	5,549,849	4,200,000	2,200,000	3,200,000	3,200,000	3,200,000	16,000,000
Master Planning Updates	1,994,683	1,670,000	1,700,000	1,735,000	1,770,000	1,800,000	8,675,000
Payments to West Valley Sanitation District	10,000	10,000	10,000	10,000	10,000	10,000	50,000
Permit Review and Inspection for Outside Agencies - Sanitary Sewer	25,000	25,000	25,000	25,000	25,000	25,000	125,000
Preliminary Engineering - Sanitary Sewer	950,000	950,000	950,000	950,000	950,000	950,000	4,750,000
Program Management - Sanitary Sewer	300,000	300,000	300,000	300,000	300,000	300,000	1,500,000
Public Works Engineering Services Equipment (Materials Lab)	40,004	40,000	40,000	40,000	40,000	40,000	200,000
Pump Station SCADA Upgrade - Sanitary Sewer		100,000	100,000	100,000	100,000	100,000	500,000
General Non-Construction - Sanitary Sewer	9,680,183	8,030,000	6,060,000	7,095,000	7,130,000	7,166,000	35,481,000

* The 2022-2023 through 2025-2026 Ending Balances are excluded from the FIVE-YEAR TOTAL USE OF FUNDS to avoid multiple counting of the same funds.

Sanitary Sewer System

2023-2027 Adopted Capital Improvement Program Use of Funds (Combined)

	Estimated						
	2021-2022	2022-2023	2023-2024	2024-2025	2025-2026	2026-2027	5-Year Total*
Sanitary Sewer - Non Construction	9,680,183	8,030,000	6,060,000	7,095,000	7,130,000	7,166,000	35,481,000
Public Art Allocation	466,308	579,000	134,000	69,000	68,000	68,000	918,000
Public Art Projects	466,308	579,000	134,000	69,000	68,000	68,000	918,000
Capital Program and Public Works Department Support Service Costs	2,445,000	2,422,000	2,129,000	1,579,000	1,518,000	1,352,000	9,000,000
Infrastructure Management System	57,000	58,000	60,000	62,000	64,000	66,000	310,000
Allocations	2,502,000	2,480,000	2,189,000	1,641,000	1,582,000	1,418,000	9,310,000
City Hall Debt Service Fund	277,000	327,000	327,000	327,000	327,000	327,000	1,635,000
Transfers to Special Funds	277,000	327,000	327,000	327,000	327,000	327,000	1,635,000
Transfers Expense	277,000	327,000	327,000	327,000	327,000	327,000	1,635,000
Montague Sanitary Sewer Pump Station Reserve		2,400,000					2,400,000
Fourth Major Interceptor Phase VII Reserve		15,000,000					15,000,000
Expense Reserves - Non Construction		17,400,000					17,400,000
Total Expenditures	59,436,181	77,063,000	44,360,000	36,732,000	35,607,000	32,479,000	226,241,000
Ending Fund Balance	47,548,593	8,547,593	1,349,593	1,779,593	3,334,593	5,017,593	5,017,593
TOTAL	106,984,774	85,610,593	45,709,593	38,511,593	38,941,593	37,496,593	231,258,593

* The 2022-2023 through 2025-2026 Ending Balances are excluded from the FIVE-YEAR TOTAL USE OF FUNDS to avoid multiple counting of the same funds.

Sanitary Sewer Capital Program
2023-2027 Adopted Capital Improvement Program
Detail of One-Time Projects

Almaden Supplement Sewer Rehabilitation (North)

CSA	Environmental and Utility Services	Initial Start Date	3rd Qtr. 2020
CSA Outcome	Reliable Utility Infrastructure	Initial End Date	2nd Qtr. 2022
Location	East Alma Avenue between Monterey Highway and South 9th Street.	Revised Start Date	
Dept Owner	Public Works	Revised End Date	2nd Qtr. 2023
Council Districts	7	Initial Project Budget	\$3,130,000
Appropriation	A420V	FY Initiated	2020-2021

Description This project will rehabilitate approximately 3,690 feet of 42-inch and 48-inch diameter reinforced concrete pipe located on East Alma Avenue between Monterey Highway and South 9th Street with a Cured-In-Place-Pipe (CIPP) liner.

Justification This project is required to restore structural integrity and extend the service life of the system.

Notes

Major Cost Changes

	PRIOR YEARS	FY22 EST	FY23	FY24	FY25	FY26	FY27	5 YEAR TOTAL	BEYOND 5 YEARS	PROJECT TOTAL
Expenditure Schedule (000s)										
Project Feasibility Development	1									1
Design	31	48	250					250		329
Construction			2,800					2,800		2,800
Total	32	48	3,050					3,050		3,130

Funding Source Schedule (000s)										
Sewer Service and Use Charge Capital Improvement Fund (545)	32	48	3,050					3,050		3,130
Total	32	48	3,050					3,050		3,130

Annual Operating Budget Impact (000s)										
Total										

Sanitary Sewer Capital Program
2023-2027 Adopted Capital Improvement Program
Detail of One-Time Projects

Blossom Hill Road and Leigh Avenue Sanitary Sewer Improvement

CSA	Environmental and Utility Services	Initial Start Date	3rd Qtr. 2021
CSA Outcome	Reliable Utility Infrastructure	Initial End Date	2nd Qtr. 2024
Location	Willow Drive and Chevalier Drive to Little Branham Lane and Aspen Court	Revised Start Date	2nd Qtr. 2021
Dept Owner	Public Works	Revised End Date	1st Qtr. 2024
Council Districts	9	Initial Project Budget	\$5,400,000
Appropriation	A420W	FY Initiated	2020-2021

Description This project will install approximately 1,900 linear feet of new 10-inch diameter sanitary sewer along Blossom Hill Road and Leigh Avenue and upsize approximately 4,300 linear feet of 8-inch to 12-inch diameter sanitary sewer along Leigh Avenue to reroute sewage flow to another system.

Justification This project is required to relieve the deficiency in 8-inch diameter pipe on various streets from the intersection of Willow Drive and Chevalier Drive to the intersection of Little Branham Lane and Aspen Court.

Notes

Major Cost Changes

	PRIOR YEARS	FY22 EST	FY23	FY24	FY25	FY26	FY27	5 YEAR TOTAL	BEYOND 5 YEARS	PROJECT TOTAL
Expenditure Schedule (000s)										
Project Feasibility Development	105									105
Design		95	315					315		410
Bid & Award			7					7		7
Construction		3	4,375	485				4,860		4,863
Post Construction				15				15		15
Total	105	98	4,697	500				5,197		5,400

Funding Source Schedule (000s)										
Sewer Service and Use Charge Capital Improvement Fund (545)	105	98	4,497	500				4,997		5,200
Sanitary Sewer Connection Fee Fund (540)			200					200		200
Total	105	98	4,697	500				5,197		5,400

Annual Operating Budget Impact (000s)										
Total										

Sanitary Sewer Capital Program
2023-2027 Adopted Capital Improvement Program
Detail of One-Time Projects

Coleman Road Sanitary Sewer Improvements - Phase III

CSA	Environmental and Utility Services	Initial Start Date	3rd Qtr 2022
CSA Outcome	Reliable Utility Infrastructure	Initial End Date	2nd Qtr 2024
Location	Coleman Road between Alvarado Court and Sentinel Street	Revised Start Date	
Dept Owner	Public Woks	Revised End Date	
Council Districts	10	Initial Project Budget	\$2,400,000
Appropriation	A429U	FY Initiated	2022-2023

Description This project will upsize 3,060 linear feet of existing 8-inch diameter sanitary sewer main to 12-inch diameter.

Justification This project is required to provide more capacity to meet existing demand.

Notes

Major Cost Changes

	PRIOR YEARS	FY22 EST	FY23	FY24	FY25	FY26	FY27	5 YEAR TOTAL	BEYOND 5 YEARS	PROJECT TOTAL
Expenditure Schedule (000s)										
Design			300					300		300
Construction				2,100				2,100		2,100
Total			300	2,100				2,400		2,400

Funding Source Schedule (000s)										
Sewer Service and Use Charge Capital Improvement Fund (545)			300	2,092				2,392		2,392
Sanitary Sewer Connection Fee Fund (540)				8				8		8
Total			300	2,100				2,400		2,400

Annual Operating Budget Impact (000s)										
Total										

Sanitary Sewer Capital Program
2023-2027 Adopted Capital Improvement Program
Detail of One-Time Projects

Fontaine Rd Sanitary Sewer Improvement

CSA	Environmental and Utility Services	Initial Start Date	3rd Qtr 2022
CSA Outcome	Reliable Utility Infrastructure	Initial End Date	2nd Qtr 2024
Location	Fontaine Road between Tully Road and Flannigan Drive	Revised Start Date	
Dept Owner	Public Works	Revised End Date	
Council Districts	7	Initial Project Budget	\$1,500,000
Appropriation	A429V	FY Initiated	2022-2023

Description This project will remove and replace approximately 1,370 linear feet of 10-inch diameter sanitary sewer main and will divert upstream flow to this system.

Justification This project is required to provide more capacity by diverting upstream flow to meet existing demand.

Notes

Major Cost Changes

	PRIOR YEARS	FY22 EST	FY23	FY24	FY25	FY26	FY27	5 YEAR TOTAL	BEYOND 5 YEARS	PROJECT TOTAL
Expenditure Schedule (000s)										
Design			300					300		300
Construction				1,200				1,200		1,200
Total			300	1,200				1,500		1,500

Funding Source Schedule (000s)										
Sewer Service and Use Charge Capital Improvement Fund (545)			300	1,193				1,493		1,493
Sanitary Sewer Connection Fee Fund (540)				7				7		7
Total			300	1,200				1,500		1,500

Annual Operating Budget Impact (000s)										
Total										

Sanitary Sewer Capital Program
2023-2027 Adopted Capital Improvement Program
Detail of One-Time Projects

Fourth Major Interceptor, Phase VIIA

CSA	Environmental and Utility Services	Initial Start Date	3rd Qtr. 2018
CSA Outcome	Reliable Utility Infrastructure	Initial End Date	2nd Qtr. 2020
Location	North 5th Street/Commercial Street and North 7th Street/Empire Street	Revised Start Date	3rd. Qtr. 2022
Dept Owner	Public Works	Revised End Date	2nd Qtr. 2023
Council Districts	3	Initial Project Budget	\$5,500,000
Appropriation	A410E	FY Initiated	2013-2014

Description This project will install approximately 7,200 linear feet of 66-inch reinforced concrete pipe. Completion of the Phase VIIA project will conclude capacity improvements for the Fourth Major Interceptor system between the intersections of North 5th Street and Commercial Street, and North 7th Street and Empire Street.

Justification The Fourth Major Interceptor is required for capacity, in addition to maintenance redundancy for the other three existing interceptors.

Notes

Major Cost Changes

	PRIOR YEARS	FY22 EST	FY23	FY24	FY25	FY26	FY27	5 YEAR TOTAL	BEYOND 5 YEARS	PROJECT TOTAL
Expenditure Schedule (000s)										
Design			500					500		500
Construction			5,000					5,000		5,000
Total			5,500					5,500		5,500

Funding Source Schedule (000s)										
Sewer Service and Use Charge Capital Improvement Fund (545)			5,500					5,500		5,500
Total			5,500					5,500		5,500

Annual Operating Budget Impact (000s)										
Total										

Sanitary Sewer Capital Program
2023-2027 Adopted Capital Improvement Program
Detail of One-Time Projects

McLaughlin Ave-24th Street Sanitary Sewer Improvement

CSA	Environmental and Utility Services	Initial Start Date	3rd Qtr 2022
CSA Outcome	Reliable Utility Infrastructure	Initial End Date	2nd Qtr 2024
Location	McLaughlin Avenue/24th Street between Appian Lane and San Antonio Street	Revised Start Date	
Dept Owner	Public Works	Revised End Date	
Council Districts	3	Initial Project Budget	\$2,400,000
Appropriation	A429W	FY Initiated	2022-2023

Description This project will upsized approximately 2,170 linear feet of 15-inch diameter sanitary sewer main to 18-inch diameter.

Justification This project is required to provide more capacity to meet existing and future demand.

Notes

Major Cost Changes

	PRIOR YEARS	FY22 EST	FY23	FY24	FY25	FY26	FY27	5 YEAR TOTAL	BEYOND 5 YEARS	PROJECT TOTAL
Expenditure Schedule (000s)										
Design			300					300		300
Construction				2,100				2,100		2,100
Total			300	2,100				2,400		2,400

Funding Source Schedule (000s)										
Sewer Service and Use Charge Capital Improvement Fund (545)			300	2,085				2,385		2,385
Sanitary Sewer Connection Fee Fund (540)				15				15		15
Total			300	2,100				2,400		2,400

Annual Operating Budget Impact (000s)										
Total										

Sanitary Sewer Capital Program
2023-2027 Adopted Capital Improvement Program
Detail of One-Time Projects

McLaughlin Ave-Idlewood Dr Sanitary Sewer Improvement

CSA	Environmental and Utility Services	Initial Start Date	3rd Qtr 2022
CSA Outcome	Reliable Utility Infrastructure	Initial End Date	2nd Qtr 2025
Location	McLaughlin Avenue between Idlewood Drive and Tully Road	Revised Start Date	
Dept Owner	Public Works	Revised End Date	
Council Districts	7	Initial Project Budget	\$3,700,000
Appropriation	A429X	FY Initiated	2022-2023

Description This project will upsize approximately 1,700 linear feet of 12 inch diameter sanitary sewer main to 15 inch diameter.

Justification This project is required to provide more capacity to meet existing and future demand.

Notes

Major Cost Changes

	PRIOR YEARS	FY22 EST	FY23	FY24	FY25	FY26	FY27	5 YEAR TOTAL	BEYOND 5 YEARS	PROJECT TOTAL
Expenditure Schedule (000s)										
Design			400					400		400
Construction				3,200	100			3,300		3,300
Total			400	3,200	100			3,700		3,700

Funding Source Schedule (000s)										
Sewer Service and Use Charge Capital Improvement Fund (545)			400	2,840	100			3,340		3,340
Sanitary Sewer Connection Fee Fund (540)				360				360		360
Total			400	3,200	100			3,700		3,700

Annual Operating Budget Impact (000s)										
Total										

Sanitary Sewer Capital Program
2023-2027 Adopted Capital Improvement Program
Detail of One-Time Projects

North 1st Street Sanitary Sewer Improvements

CSA	Environmental and Utility Services	Initial Start Date	3rd Qtr 2022
CSA Outcome	Reliable Utility Infrastructure	Initial End Date	3rd Qtr 2024
Location	North First Street from Trimble Road to Montague Expressway	Revised Start Date	
Dept Owner	Public Works	Revised End Date	
Council Districts	4	Initial Project Budget	\$7,000,000
Appropriation	A429Y	FY Initiated	2022-2023

Description This project will rehabilitate, remove and replace approximately 4,406 linear feet of 27 inch diameter sanitary sewer main using trenchless and open cut methods of installation. The project will also remove a bulkhead at the upstream manhole to divert flow into the 27 inch sanitary sewer system.

Justification This project is required to rehabilitate and replace corroded sanitary sewer system and extend the service life of the system. Likewise, diverting flow into the 27 inch system will provide more capacity to an existing 15 inch parallel system.

Notes

Major Cost Changes

	PRIOR YEARS	FY22 EST	FY23	FY24	FY25	FY26	FY27	5 YEAR TOTAL	BEYOND 5 YEARS	PROJECT TOTAL
Expenditure Schedule (000s)										
Design			1,000	1,000				2,000		2,000
Construction				4,000	1,000			5,000		5,000
Total			1,000	5,000	1,000			7,000		7,000

Funding Source Schedule (000s)										
Sewer Service and Use Charge Capital Improvement Fund (545)			1,000	5,000	1,000			7,000		7,000
Total			1,000	5,000	1,000			7,000		7,000

Annual Operating Budget Impact (000s)										
Total										

Sanitary Sewer Capital Program
2023-2027 Adopted Capital Improvement Program
Detail of One-Time Projects

Pump Station SCADA Upgrade - Sanitary Sewer

CSA	Environmental and Utility Services	Initial Start Date	3rd Qtr 2022
CSA Outcome	Reliable Utility Infrastructure	Initial End Date	2nd Qtr 2027
Location	Citywide	Revised Start Date	
Dept Owner	Public Works	Revised End Date	
Council Districts	Citywide	Initial Project Budget	\$500,000
Appropriation	A429Z	FY Initiated	2022-2023

Description This project will upgrade the Supervisory Control and Data Acquisition (SCADA) systems at the City's sanitary sewer pump stations.

Justification The SCADA upgrade is necessary to reduce or eliminate both physical and cyber vulnerabilities. Upgrading to a modern SCADA system will allow the City to take advantage of the new security capabilities and ensure the sanitary pump stations are protected from attacks.

Notes

Major Cost Changes

	PRIOR YEARS	FY22 EST	FY23	FY24	FY25	FY26	FY27	5 YEAR TOTAL	BEYOND 5 YEARS	PROJECT TOTAL
Expenditure Schedule (000s)										
Maintenance, Repairs, Other			100	100	100	100	100	500		500
Total			100	100	100	100	100	500		500

	PRIOR YEARS	FY22 EST	FY23	FY24	FY25	FY26	FY27	5 YEAR TOTAL	BEYOND 5 YEARS	PROJECT TOTAL
Funding Source Schedule (000s)										
Sewer Service and Use Charge Capital Improvement Fund (545)			100	100	100	100	100	500		500
Total			100	100	100	100	100	500		500

	PRIOR YEARS	FY22 EST	FY23	FY24	FY25	FY26	FY27	5 YEAR TOTAL	BEYOND 5 YEARS	PROJECT TOTAL
Annual Operating Budget Impact (000s)										
Total										

Sanitary Sewer Capital Program
2023-2027 Adopted Capital Improvement Program
Detail of Ongoing Projects

Cast Iron Pipe - Remove and Replace

CSA Outcome	Reliable Utility Infrastructure	Council Districts	City-wide
Department Owner	Public Works	Appropriation	A7472
Description	This project removes and replaces cast iron sewer pipes city-wide that are aging or corroded. It is estimated that between 38,000 to 40,000 feet of cast iron pipe will be replaced over the next five years.		

	FY22 Budget	FY22 EST	FY23	FY24	FY25	FY26	FY27	5 Year Total
Expenditure Schedule (000s)								
Project Feasibility Development	50	50	50	50	50	50	50	250
Design	200	200	200	200	200	200	200	1,000
Bid & Award	20	20	20	20	20	20	20	100
Construction	7,355	7,355	5,730	3,730	4,730	4,730	4,730	23,650
Total	7,625	7,625	6,000	4,000	5,000	5,000	5,000	25,000

	FY22 Budget	FY22 EST	FY23	FY24	FY25	FY26	FY27	5 Year Total
Funding Source Schedule (000s)								
Sewer Service and Use Charge Capital Improvement Fund (545)	7,625	7,625	6,000	4,000	5,000	5,000	5,000	25,000
Total	7,625	7,625	6,000	4,000	5,000	5,000	5,000	25,000

Sanitary Sewer Capital Program
2023-2027 Adopted Capital Improvement Program
Detail of Ongoing Projects

Condition Assessment Sewer Repairs

CSA Outcome	Reliable Utility Infrastructure	Council Districts	City-wide
Department Owner	Public Works	Appropriation	A7356
Description	This allocation funds the identification and repair of damaged pipes in the sanitary sewer system, and includes multiple projects each year as they are identified. Areas in which a sanitary sewer overflow would have high consequences will be the focus of these identify-and-repair contracts.		

	FY22	FY22						5 Year
	Budget	EST	FY23	FY24	FY25	FY26	FY27	Total
Expenditure Schedule (000s)								
Project Feasibility Development	4	4	4	4	4	4	4	20
Design	200	200	200	200	200	200	200	1,000
Bid & Award	10	10	10	10	10	10	10	50
Construction	6,607	6,607	6,786	4,786	5,786	5,786	5,786	28,930
Total	6,821	6,821	7,000	5,000	6,000	6,000	6,000	30,000

Funding Source Schedule (000s)								
Sewer Service and Use Charge Capital Improvement Fund (545)	6,821	6,821	7,000	5,000	6,000	6,000	6,000	30,000
Total	6,821	6,821	7,000	5,000	6,000	6,000	6,000	30,000

Sanitary Sewer Capital Program
2023-2027 Adopted Capital Improvement Program
Detail of Ongoing Projects

Fee Administration - Sanitary Sewer

CSA Outcome	Reliable Utility Infrastructure	Council Districts	N/A
Department Owner	Public Works	Appropriation	A5241
Description	This allocation provides funding for the Public Works Development Program to collect Sanitary Sewer Connection Fees.		

	FY22 Budget	FY22 EST	FY23	FY24	FY25	FY26	FY27	5 Year Total
Expenditure Schedule (000s)								
General Administration	85	85	85	85	85	85	85	425
Total	85	85	85	85	85	85	85	425
Funding Source Schedule (000s)								
Sanitary Sewer Connection Fee Fund (540)	85	85	85	85	85	85	85	425
Total	85	85	85	85	85	85	85	425

Sanitary Sewer Capital Program
2023-2027 Adopted Capital Improvement Program
Detail of Ongoing Projects

Flow Monitoring Program (Master Planning)

CSA Outcome	Reliable Utility Infrastructure	Council Districts	City-wide
Department Owner	Public Works	Appropriation	A4696
Description	This allocation funds a city-wide sanitary sewer master planning effort to identify capacity improvement needs and provides for future updates, flow analysis, and condition assessments.		

	FY22	FY22						5 Year
	Budget	EST	FY23	FY24	FY25	FY26	FY27	Total
Expenditure Schedule (000s)								
Project Feasibility Development	650	650	650	650	650	650	656	3,256
Design	76	76						
Total	726	726	650	650	650	650	656	3,256

Funding Source Schedule (000s)								
Sewer Service and Use Charge Capital Improvement Fund (545)	574	574	550	550	550	550	556	2,756
Sanitary Sewer Connection Fee Fund (540)	151	151	100	100	100	100	100	500
Total	726	726	650	650	650	650	656	3,256

Sanitary Sewer Capital Program
2023-2027 Adopted Capital Improvement Program
Detail of Ongoing Projects

Immediate Replacement and Diversion Projects

CSA Outcome	Reliable Utility Infrastructure	Council Districts	City-wide
Department Owner	Public Works	Appropriation	A4272
Description	This allocation funds immediate needs that arise from Department of Transportation (DOT) maintenance and response activities. DOT identifies areas that require immediate sewer replacement as part of their maintenance activities and in response to sanitary sewer overflows. If replacement of the sewer is not feasible or cost effective, sewage may be rerouted (diverted) by installing a new or supplemental sewer along a different route. If these needs are not addressed in a timely manner, additional operations and maintenance costs will be incurred, and an increased possibility of sanitary sewer overflows will result.		

	FY22 Budget	FY22 EST	FY23	FY24	FY25	FY26	FY27	5 Year Total
Expenditure Schedule (000s)								
Project Feasibility Development	35	35	35	35	35	35	35	175
Design	400	400	400	400	400	400	400	2,000
Bid & Award	20	20	20	20	20	20	20	100
Construction	6,767	6,767	6,245	3,795	6,245	6,245	6,245	28,775
Post Construction			100	100	100	100	100	500
Total	7,222	7,222	6,800	4,350	6,800	6,800	6,800	31,550

	FY22 Budget	FY22 EST	FY23	FY24	FY25	FY26	FY27	5 Year Total
Funding Source Schedule (000s)								
Sewer Service and Use Charge Capital Improvement Fund (545)	6,822	6,822	6,500	4,000	6,500	6,500	6,500	30,000
Sanitary Sewer Connection Fee Fund (540)	400	400	300	350	300	300	300	1,550
Total	7,222	7,222	6,800	4,350	6,800	6,800	6,800	31,550

Sanitary Sewer Capital Program
2023-2027 Adopted Capital Improvement Program
Detail of Ongoing Projects

Inflow and Infiltration Reduction

CSA Outcome	Reliable Utility Infrastructure	Council Districts	City-wide
Department Owner	Public Works	Appropriation	A6444
Description	This allocation funds the rehabilitation of sanitary sewers and manholes that have groundwater or storm water penetration. The Flow Monitoring Program and maintenance reports from the Department of Transportation identify sewers ranging from 6 inches to 36 inches in diameter in various locations throughout the City that require rehabilitation.		

	FY22	FY22						5 Year
	Budget	EST	FY23	FY24	FY25	FY26	FY27	Total
Expenditure Schedule (000s)								
Construction	200	200	200	200	200	200	200	1,000
Total	200	200	200	200	200	200	200	1,000

Funding Source Schedule (000s)								
Sewer Service and Use Charge Capital Improvement Fund (545)	200	200	200	200	200	200	200	1,000
Total	200	200	200	200	200	200	200	1,000

Sanitary Sewer Capital Program
2023-2027 Adopted Capital Improvement Program
Detail of Ongoing Projects

Infrastructure - Sanitary Sewer Condition Assessment

CSA Outcome	Reliable Utility Infrastructure	Council Districts	City-wide
Department Owner	Public Works	Appropriation	A6521
Description	This allocation funds an ongoing condition assessment program to inspect and evaluate the condition of the existing pipelines and identify the needs for pipeline rehabilitation and/or replacement.		

	FY22	FY22						5 Year
	Budget	EST	FY23	FY24	FY25	FY26	FY27	Total
Expenditure Schedule (000s)								
Project Feasibility Development	3,200	3,200	4,200	2,200	3,200	3,200	3,200	16,000
Construction	2,350	2,350						
Total	5,550	5,550	4,200	2,200	3,200	3,200	3,200	16,000

Funding Source Schedule (000s)								
Sewer Service and Use Charge Capital Improvement Fund (545)	5,550	5,550	4,200	2,200	3,200	3,200	3,200	16,000
Total	5,550	5,550	4,200	2,200	3,200	3,200	3,200	16,000

Sanitary Sewer Capital Program
2023-2027 Adopted Capital Improvement Program
Detail of Ongoing Projects

Master Planning Updates

CSA Outcome	Reliable Utility Infrastructure	Council Districts	City-wide
Department Owner	Public Works	Appropriation	A7242
Description	This allocation funds the updates to the sewer system database and computer models based on land use development, sewer system improvements, survey and field investigations, and record research.		

	FY22	FY22						5 Year
	Budget	EST	FY23	FY24	FY25	FY26	FY27	Total
Expenditure Schedule (000s)								
Project Feasibility Development	1,650	1,650	1,670	1,700	1,735	1,770	1,800	8,675
Maintenance, Repairs, Other	345	345						
Total	1,995	1,995	1,670	1,700	1,735	1,770	1,800	8,675

Funding Source Schedule (000s)								
Sewer Service and Use Charge Capital Improvement Fund (545)	1,795	1,795	1,470	1,500	1,535	1,570	1,600	7,675
Sanitary Sewer Connection Fee Fund (540)	200	200	200	200	200	200	200	1,000
Total	1,995	1,995	1,670	1,700	1,735	1,770	1,800	8,675

Sanitary Sewer Capital Program
2023-2027 Adopted Capital Improvement Program
Detail of Ongoing Projects

Payments to West Valley Sanitation District

CSA Outcome	Reliable Utility Infrastructure	Council Districts	N/A
Department Owner	Public Works	Appropriation	A4230
Description	This allocation reimburses the West Valley Sanitation District for the City's share of potential joint sanitary sewer projects within the District's jurisdiction.		

	FY22	FY22						5 Year
	Budget	EST	FY23	FY24	FY25	FY26	FY27	Total
Expenditure Schedule (000s)								
General Administration	10	10	10	10	10	10	10	50
Total	10	10	10	10	10	10	10	50

Funding Source Schedule (000s)								
Sanitary Sewer Connection Fee Fund (540)	10	10	10	10	10	10	10	50
Total	10	10	10	10	10	10	10	50

Sanitary Sewer Capital Program
2023-2027 Adopted Capital Improvement Program
Detail of Ongoing Projects

Permit Review and Inspection for Outside Agencies - Sanitary Sewer

CSA Outcome	Reliable Utility Infrastructure	Council Districts	City-wide
Department Owner	Public Works	Appropriation	A5149
Description	This allocation provides for the review and inspection of projects for the Santa Clara Valley Water District (SCVWD) by City staff. As is customary practice between public agencies, as well as State law, the City and SCVWD do not charge one another for these services.		

	FY22	FY22						5 Year
	Budget	EST	FY23	FY24	FY25	FY26	FY27	Total
Expenditure Schedule (000s)								
General Administration	25	25	25	25	25	25	25	125
Total	25	25	25	25	25	25	25	125

Funding Source Schedule (000s)								
Sewer Service and Use Charge Capital Improvement Fund (545)	25	25	25	25	25	25	25	125
Total	25	25	25	25	25	25	25	125

Sanitary Sewer Capital Program
2023-2027 Adopted Capital Improvement Program
Detail of Ongoing Projects

Preliminary Engineering - Sanitary Sewer

CSA Outcome	Reliable Utility Infrastructure	Council Districts	City-wide
Department Owner	Public Works	Appropriation	A4284
Description	This allocation supports preliminary engineering, including surveys and evaluations, that evaluates the potential effects of projects not yet funded in this program.		

	FY22	FY22						5 Year
	Budget	EST	FY23	FY24	FY25	FY26	FY27	Total
Expenditure Schedule (000s)								
Project Feasibility Development	950	950	950	950	950	950	950	4,750
Total	950	950	950	950	950	950	950	4,750

Funding Source Schedule (000s)								
Sewer Service and Use Charge Capital Improvement Fund (545)	900	900	900	900	900	900	900	4,500
Sanitary Sewer Connection Fee Fund (540)	50	50	50	50	50	50	50	250
Total	950	950	950	950	950	950	950	4,750

Sanitary Sewer Capital Program
2023-2027 Adopted Capital Improvement Program
Detail of Ongoing Projects

Program Management - Sanitary Sewer

CSA Outcome	Reliable Utility Infrastructure	Council Districts	City-wide
Department Owner	Public Works	Appropriation	A4286
Description	This allocation funds the administration and management of this Capital Improvement Program.		

	FY22	FY22	FY23	FY24	FY25	FY26	FY27	5 Year
	Budget	EST						Total
Expenditure Schedule (000s)								
General Administration	300	300	300	300	300	300	300	1,500
Total	300	300	300	300	300	300	300	1,500

Funding Source Schedule (000s)								
Sewer Service and Use Charge Capital Improvement Fund (545)	250	250	250	250	250	250	250	1,250
Sanitary Sewer Connection Fee Fund (540)	50	50	50	50	50	50	50	250
Total	300	300	300	300	300	300	300	1,500

Sanitary Sewer Capital Program
2023-2027 Adopted Capital Improvement Program
Detail of Ongoing Projects

Public Works Engineering Services Equipment (Materials Lab)

CSA Outcome	Reliable Utility Infrastructure	Council Districts	N/A
Department Owner	Public Works	Appropriation	A4135
Description	This ongoing allocation funds the purchase of equipment necessary to perform quality assurance testing on materials used in sewer rehabilitation projects.		

	FY22	FY22						5 Year
	Budget	EST	FY23	FY24	FY25	FY26	FY27	Total
Expenditure Schedule (000s)								
Design	0	0						
Equipment, Materials and Supplies	40	40	40	40	40	40	40	200
Total	40	40	40	40	40	40	40	200

Funding Source Schedule (000s)								
Sewer Service and Use Charge Capital Improvement Fund (545)	40	40	40	40	40	40	40	200
Total	40	40	40	40	40	40	40	200

Sanitary Sewer Capital Program
2023-2027 Adopted Capital Improvement Program
Detail of Ongoing Projects

Rehabilitation of Sanitary Sewer Pump Stations

CSA Outcome	Reliable Utility Infrastructure	Council Districts	City-wide
Department Owner	Public Works	Appropriation	A6527
Description	This allocation is used to assess, rehabilitate, and/or replace the mechanical and electrical components of the City's sanitary sewer pump stations and manhole structures. At the start of this project, the average age of the City's sanitary sewer pump stations was approximately 30 years. Electrical and mechanical components should be rehabilitated or replaced at a minimum every 25 years. While this is an ongoing project, funding will be allocated as rehabilitation needs are identified.		

	FY22 Budget	FY22 EST	FY23	FY24	FY25	FY26	FY27	5 Year Total
Expenditure Schedule (000s)								
Property & Land	5	5						
Design	9	9						
Bid & Award	520	38	482					482
Construction	1,153	2	1,152					1,152
Post Construction	16		16					16
Total	1,704	54	1,650					1,650

Funding Source Schedule (000s)								
Sewer Service and Use Charge Capital Improvement Fund (545)	1,704	54	1,650					1,650
Total	1,704	54	1,650					1,650

Sanitary Sewer Capital Program
2023-2027 Adopted Capital Improvement Program
Detail of Ongoing Projects

Reinforced Concrete Pipe Rehabilitation Program

CSA Outcome	Reliable Utility Infrastructure	Council Districts	City-wide
Department Owner	Public Works	Appropriation	A7361

Description This allocation is used to investigate the structural condition of approximately 70,000 feet of reinforced concrete pipe (RCP) and rehabilitate as necessary. Due to the wide range of lengths, diameters, and locations of RCP throughout the City's sanitary sewer system, projects which may contain multiple construction locations will be developed. This allocation provides the flexibility to develop and construct projects which group locations, pipe lengths, and diameters in a cost effective manner.

	FY22 Budget	FY22 EST	FY23	FY24	FY25	FY26	FY27	5 Year Total
Expenditure Schedule (000s)								
Project Feasibility Development	35	35	35	35	35	35	35	175
Design	140	140	140	140	140	140	140	700
Bid & Award	5	5	5	5	5	5	5	25
Construction	320	320	320	320	320	320	320	1,600
Total	500	500	500	500	500	500	500	2,500

Funding Source Schedule (000s)								
Sewer Service and Use Charge Capital Improvement Fund (545)	500	500	500	500	500	500	500	2,500
Total	500	500	500	500	500	500	500	2,500

Sanitary Sewer Capital Program
2023-2027 Adopted Capital Improvement Program
Detail of Ongoing Projects

Sanitary Sewer Interceptor Management Program

CSA Outcome	Reliable Utility Infrastructure	Council Districts	City-wide
Department Owner	Public Works	Appropriation	A426B
Description	This allocation will fund a condition assessment program to inspect and evaluate the condition of the existing sanitary sewer interceptors and soil filter beds, and identify the needs for interceptor rehabilitation and/or replacement and filter bed system upgrade.		

	FY22 Budget	FY22 EST	FY23	FY24	FY25	FY26	FY27	5 Year Total
Expenditure Schedule (000s)								
Project Feasibility Development	100	100	100	100	100	100		400
Design	180	180	180	180	180	180		720
Bid & Award	20	20	20	20	20	20		80
Construction	2,700	2,700	2,700	2,700	2,700	2,700		10,800
Total	3,000	3,000	3,000	3,000	3,000	3,000		12,000

	FY22 Budget	FY22 EST	FY23	FY24	FY25	FY26	FY27	5 Year Total
Funding Source Schedule (000s)								
Sewer Service and Use Charge Capital Improvement Fund (545)	3,000	3,000	3,000	3,000	3,000	3,000	3,000	12,000
Total	3,000	3,000	3,000	3,000	3,000	3,000		12,000

Sanitary Sewer Capital Program
2023-2027 Adopted Capital Improvement Program
Detail of Ongoing Projects

Urgent Rehabilitation and Repair Projects

CSA Outcome	Reliable Utility Infrastructure	Council Districts	City-wide
Department Owner	Public Works	Appropriation	A4271
Description	This ongoing allocation is used to investigate, prioritize, and rehabilitate neighborhood sewers that exhibit structural deterioration, root intrusion, and/or blockages. The projects will be developed to respond to the Department of Transportation's ongoing maintenance activities and sewer overflow incidents that are urgent and cannot be programmed during the annual CIP preparation process.		

	FY22 Budget	FY22 EST	FY23	FY24	FY25	FY26	FY27	5 Year Total
Expenditure Schedule (000s)								
Design	500	500	500	500	500	500	500	2,500
Bid & Award	40	40	40	40	40	40	40	200
Construction	9,579	9,579	6,450	3,950	4,450	4,450	4,450	23,750
Post Construction	10	10	10	10	10	10	10	50
Total	10,129	10,129	7,000	4,500	5,000	5,000	5,000	26,500

	FY22 Budget	FY22 EST	FY23	FY24	FY25	FY26	FY27	5 Year Total
Funding Source Schedule (000s)								
Sewer Service and Use Charge Capital Improvement Fund (545)	10,129	10,129	7,000	4,500	5,000	5,000	5,000	26,500
Total	10,129	10,129	7,000	4,500	5,000	5,000	5,000	26,500

Sanitary Sewer Capital Program
2023-2027 Adopted Capital Improvement Program
Summary of Reserves

Project Name Fourth Major Interceptor Phase VII Reserve

5-Yr CIP Budget \$ 15,000,000

Total Budget \$ 15,000,000

Council Districts

Description This project will install approximately 7,200 linear feet of 66-inch reinforced concrete pipe. Completion of the Phase VIIA project will conclude capacity improvements for the Fourth Major Interceptor system between the intersections of North 5th Street and Commercial Street, and North 7th Street and Empire Street. This project is listed as a reserve in order to build-up \$45 million for the construction of Phase VII in five years.

Project Name Montague Sanitary Sewer Pump Station Reserve

5-Yr CIP Budget \$ 2,400,000

Total Budget \$ 2,400,000

Council Districts 4

Description This reserve sets aside funding to rehabilitate and/or upgrade the pump station located on First Street and Montague Expressway. Due to real estate-related uncertainties, construction is currently delayed.

Sanitary Sewer Capital Program
2023-2027 Adopted Capital Improvement Program
Summary of Projects with Close-Out Costs Only in 2022-2023

Project Name	60 inch Brick Interceptor, Phase VIA and VIB	Initial Start Date	3rd Qtr. 2009
5-Yr CIP Budget	\$ 500,000	Initial End Date	2nd Qtr. 2013
Total Budget	\$ 82,660,077	Revised Start Date	
Council Districts	3	Revised End Date	2nd Qtr. 2023
Description	This project replaces approximately 5,000 linear feet of existing 54-inch reinforced concrete sanitary sewer with an 84-inch lined reinforced concrete pipe. This CIP only provides funding to complete Phase VIA. Phase VIB will rehabilitate the existing 60-inch brick sewer after the completion of Phase VIA.		

Project Name	Westmont Avenue and Harriet Avenue Sanitary Sewer Improvements	Initial Start Date	3rd Qtr. 2017
5-Yr CIP Budget	\$ 50,000	Initial End Date	2nd Qtr. 2020
Total Budget	\$ 5,557,358	Revised Start Date	
Council Districts	1	Revised End Date	2nd Qtr. 2023
Description	This project will install 6,300 linear feet of new sanitary sewer and a new siphon along Westmont Avenue from San Tomas Aquino Creek to Harriet Avenue, and along Harriet Avenue from Westmont Avenue to San Tomas Aquino Creek.		
