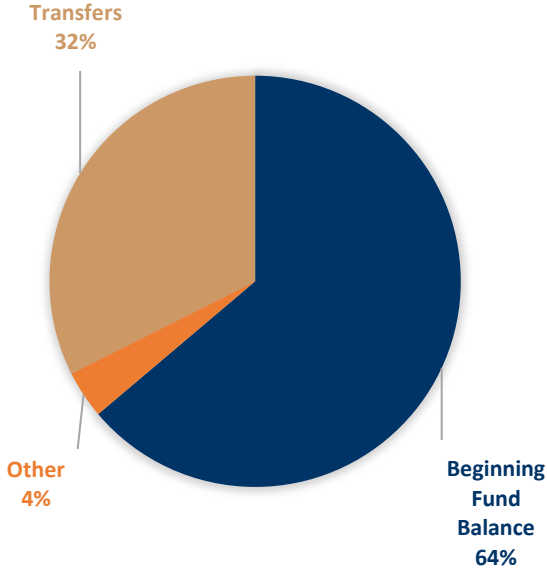


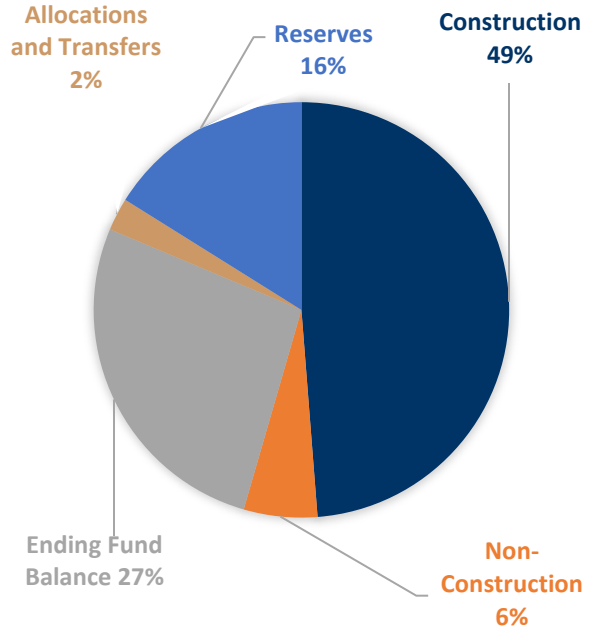
SANITARY SEWER SYSTEM

2024-2028 Adopted Capital Improvement Program

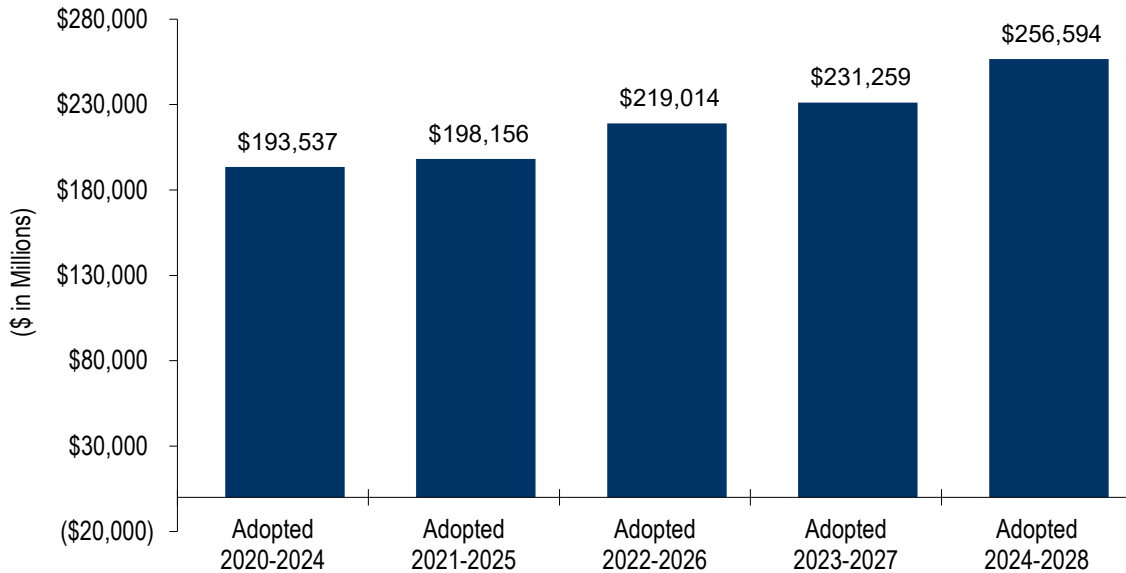
**2023-2024 ADOPTED
SOURCE OF FUNDS**



**2023-2024 ADOPTED
USE OF FUNDS**



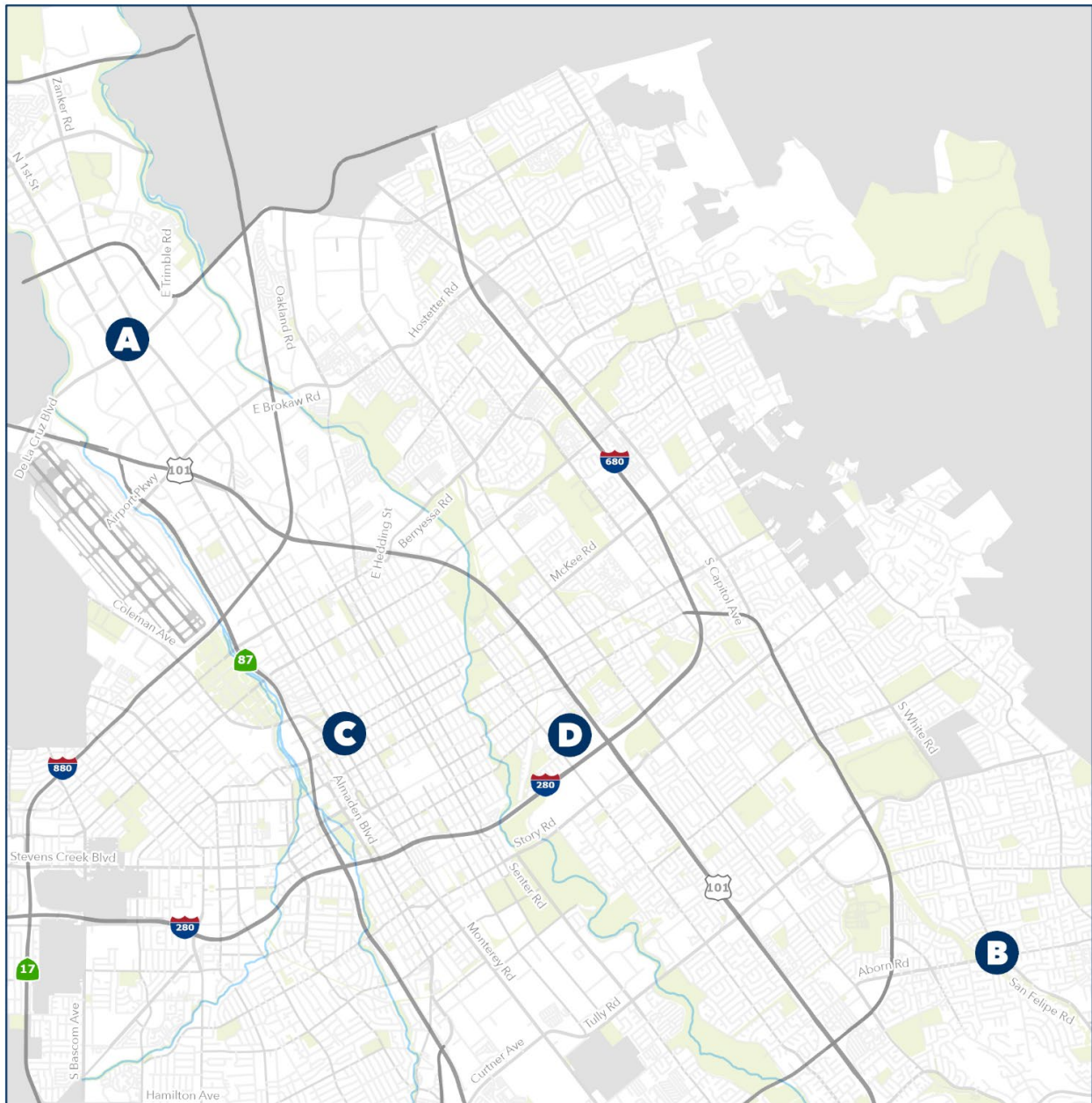
CIP History



Sanitary Sewer System

2024-2028 Adopted Capital Improvement Program

North East

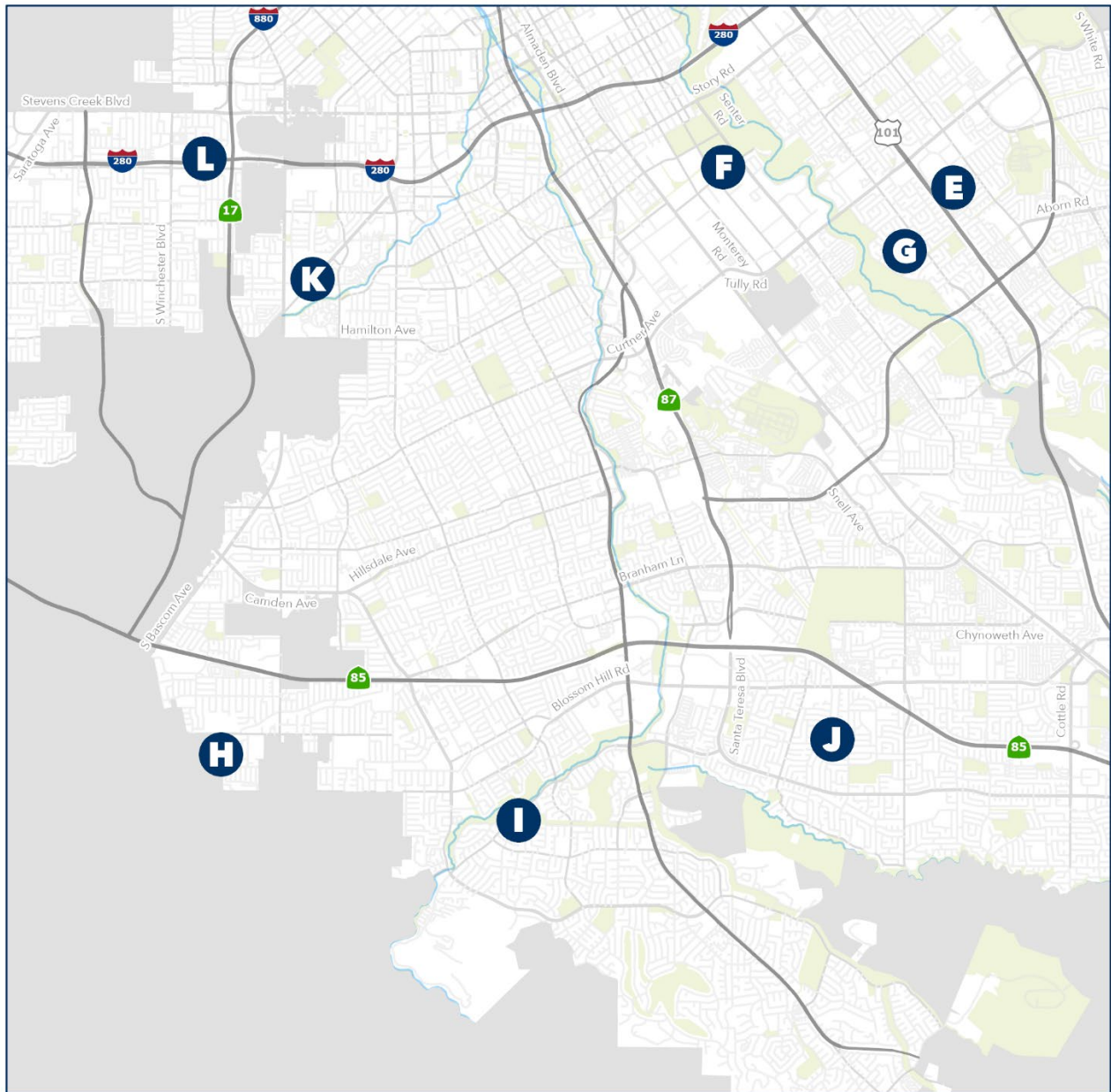


- A** North 1st St Sanitary Sewer Improvement
- B** South White Road Sanitary Sewer Improvement
- C** Fourth Major Interceptor, Phase VIIA
- D** McLaughlin Ave-24th St Sanitary Sewer Improvement

Sanitary Sewer System

2024-2028 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
- J** Chesbro Avenue Sanitary Sewer Improvement
- K** Southwest Expressway Sanitary Sewer Improvement
- L** Tisch Way Sanitary Sewer Improvement

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Sanitary Sewer System

2024-2028 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
FORCE MAIN	10
NUMBER OF MANHOLES	39,469
NUMBER OF PUMP STATIONS	17

The 2024-2028 Adopted Capital Improvement Program (CIP) provides funding of \$256.6 million, of which \$108.0 million is allocated in 2023-2024. 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 2024-2028 Adopted Sanitary Sewer System CIP supports the priorities and objectives of the Environmental and Utility Services CSA by maintaining the following strategic priorities:

- Support the goal of preventing Sanitary Sewer Overflows (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 – Phase II and Update of Phase I (Master Plan Phase II) that was completed in April 2013, and in the development of the Phase III and Update of Phase II (Master Plan Phase III) that is currently being drafted.

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

2024-2028 Adopted Capital Improvement Program

OVERVIEW

PROGRAM PRIORITIES AND OBJECTIVES

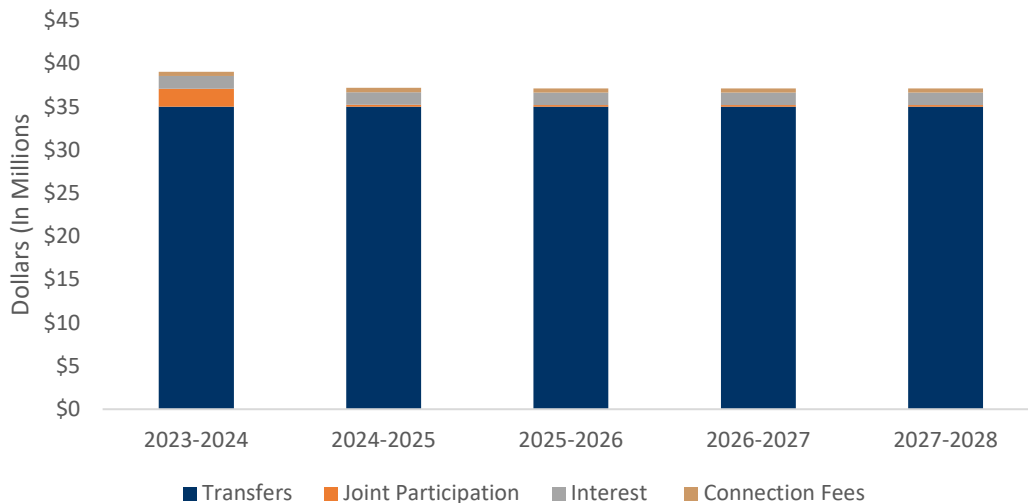
The Master Plan Phase II helped identify and address trunk sewer capacity improvement needs in the existing system and forecasted additional capacity-enhancing projects required to meet future demands in the context of the General Plan. Master Plan Phase III will identify and address smaller diameter (6-inch and 8-inch) sewer capacity improvement needs.

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 2024-2028 Adopted CIP provides funding of \$256.6 million, of which \$108.0 million is allocated in 2023-2024. 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

2024-2028 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

Approximately 30% of the Adopted CIP (\$72.2 million) is programmed Sanitary Sewer system capacity enhancements. These capacity improvement projects include \$41.4 million for site-specific projects, and \$30.8 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.

This CIP allocates \$5.5 million within the North Interceptor System for the design of the Fourth Major Interceptor, Phase VIIA, with an additional \$15.0 million reserved for future construction. Though not programmed in this CIP, the total project cost for Phase VIIA is approximately \$50 million, and funding scenarios will be considered in a subsequent CIP. 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. 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 six of seven phases completed. The construction of the Fourth Street 84-inch Interceptor, Phase VI, was completed in spring 2022. When all seven phases are 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.

Sanitary Sewer System

2024-2028 Adopted Capital Improvement Program

OVERVIEW

PROGRAM HIGHLIGHTS

Rehabilitation



A total of \$109.6 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 five years, for a total of \$15.0 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 of the City's soil bed filters that assist with removing odors and corrosive sewer gases from the interceptors.

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.

Sanitary Sewer System

2024-2028 Adopted Capital Improvement Program

OVERVIEW

MAJOR CHANGES FROM THE 2023-2027 ADOPTED CIP

The overall size of the Sanitary Sewer System CIP has increased by \$25.3 million from \$231.3 million in the 2023-2027 Adopted CIP to \$256.6 million in the 2024-2028 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)
Chesbro Avenue Sanitary Sewer Improvement	\$9.6 million
Southwest Expressway Sanitary Sewer Improvement	\$9.0 million
South White Road Sanitary Sewer Improvement	\$3.0 million
Tisch Way Sanitary Sewer Improvement	\$1.8 million

OPERATING BUDGET IMPACT

There are no additional maintenance and operating costs associated with the projects in the 2024-2028 Adopted CIP.

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 2023-2024 and approved by the City Council on June 13, 2023. This included rebudgeting of unexpended funding for 2.0 million in [Manager's Budget Addendum #60](#), the largest of which includes North 1st Street Sanitary Sewer Improvements (\$1.0 million), Blossom Hill Road and Leigh Avenue Sanitary Sewer Improvement (\$300,000), 60 inch Brick Interceptor (\$150,000), and Fontaine Road Sanitary Sewer Improvement (\$150,000).

For more information, please refer to the [Mayor's June Budget Message for Fiscal Year 2023-2024](#), located in the Appendices of this document, and [Manager Budget Addendum #61](#) which incorporates adjustments per the Mayor's June Budget Message.

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Sanitary Sewer System

2024-2028 Adopted Capital Improvement Program

Source of Funds (Combined)

	Estimated						5-Year Total
	2022-2023	2023-2024	2024-2025	2025-2026	2026-2027	2027-2028	
Sewer Service and Use Charge Capital Improvement Fund (545)							
Beginning Balance	71,216,700	66,841,998	27,729,898	6,658,898	8,113,898	10,385,898	66,841,998
Reserve for Encumbrance	7,831,935						
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	35,000,000	175,000,000
TOTAL Transfers and Reimbursements	35,000,000	35,000,000	35,000,000	35,000,000	35,000,000	35,000,000	175,000,000
Revenue from Use of Money and Property							
Interest Income	1,375,000	1,400,000	1,400,000	1,400,000	1,400,000	1,400,000	7,000,000
TOTAL Revenue from Use of Money and Property	1,375,000	1,400,000	1,400,000	1,400,000	1,400,000	1,400,000	7,000,000
Revenue from Local Agencies							
Sanitary Sewer Joint Participation-	100,000	2,020,000	120,000	70,000	70,000	70,000	2,350,000
TOTAL Revenue from Local Agencies	100,000	2,020,000	120,000	70,000	70,000	70,000	2,350,000
Total Sewer Service and Use Charge Capital Improvement Fund (545)	115,523,635	105,261,998	64,249,898	43,128,898	44,583,898	46,855,898	251,191,998

* The 2024-2025 through 2027-2028 Beginning Balances are excluded from the FIVE-YEAR TOTAL SOURCE OF FUNDS to avoid multiple counting of the same funds.

Sanitary Sewer System

2024-2028 Adopted Capital Improvement Program

Source of Funds (Combined)

	Estimated						
	2022-2023	2023-2024	2024-2025	2025-2026	2026-2027	2027-2028	5-Year Total
Sanitary Sewer Connection Fee Fund (540)							
Beginning Balance	2,858,967	2,101,910	1,274,010	751,010	262,010	293,010	2,101,910
Reserve for Encumbrance	19,968						
Revenue from Use of Money and Property							
Interest Income	57,000	50,000	50,000	50,000	50,000	50,000	250,000
TOTAL Revenue from Use of Money and Property	57,000	50,000	50,000	50,000	50,000	50,000	250,000
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)	3,545,935	2,761,910	1,934,010	1,411,010	922,010	953,010	5,401,910
TOTAL SOURCES	119,069,570	108,023,909	66,183,909	44,539,909	45,505,909	47,808,909	256,593,909

* The 2024-2025 through 2027-2028 Beginning Balances are excluded from the FIVE-YEAR TOTAL SOURCE OF FUNDS to avoid multiple counting of the same funds.

Sanitary Sewer System

2024-2028 Adopted Capital Improvement Program

Use of Funds (Combined)

	Estimated 2022-2023	2023-2024	2024-2025	2025-2026	2026-2027	2027-2028	5-Year Total
Sanitary Sewer System							
60 inch Brick Interceptor, Phase VIA and VIB	1,182,003	150,000					150,000
Blossom Hill Road and Leigh Avenue Sanitary Sewer Improvement	208,000	4,500,000	300,000				4,800,000
Chesbro Avenue Sanitary Sewer Improvement		600,000	8,500,000	500,000			9,600,000
Coleman Road Sanitary Sewer Improvement - Phase III	165,000	2,235,000					2,235,000
Fontaine Rd Sanitary Sewer Improvement	150,000	1,350,000					1,350,000
Fourth Major Interceptor, Phase VIIA		5,500,000					5,500,000
Immediate Replacement and Diversion Projects	7,849,264	4,350,000	6,600,000	6,600,000	6,600,000	6,600,000	30,750,000
McLaughlin Ave-24th Street Sanitary Sewer Improvement	50,000	100,000	1,890,000	200,000			2,190,000
McLaughlin Ave-Idlewood Dr Sanitary Sewer Improvement	150,000	3,500,000	100,000				3,600,000
South White Road Sanitary Sewer Improvement		200,000	2,800,000				3,000,000
Southwest Expressway Sanitary Sewer Improvement		500,000	8,000,000	500,000			9,000,000
Westmont Avenue and Harriet Avenue Sanitary Sewer Improvements	309,227						
Capacity Improvement Projects	10,063,493	22,985,000	28,190,000	7,800,000	6,600,000	6,600,000	72,175,000
Almaden Supplement Sewer Rehabilitation (North)		3,108,000	22,000				3,130,000
Cast Iron Pipe - Remove and Replace	7,149,299	4,000,000	5,000,000	5,000,000	5,000,000	5,000,000	24,000,000
Condition Assessment Sewer Repairs	7,876,312	5,000,000	6,000,000	6,000,000	6,000,000	6,000,000	29,000,000
Inflow and Infiltration Reduction	200,000	200,000	200,000	200,000	200,000	200,000	1,000,000

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

Sanitary Sewer System

2024-2028 Adopted Capital Improvement Program

Use of Funds (Combined)

	Estimated 2022-2023	2023-2024	2024-2025	2025-2026	2026-2027	2027-2028	5-Year Total
North 1st Street Sanitary Sewer Improvements		6,000,000	1,000,000				7,000,000
Rehabilitation of Sanitary Sewer Pump Stations	18,508	1,679,000					1,679,000
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	15,000,000
Tisch Way Sanitary Sewer Improvement		1,700,000	100,000				1,800,000
Urgent Rehabilitation and Repair Projects	11,492,338	4,500,000	5,000,000	5,000,000	5,000,000	5,000,000	24,500,000
Rehabilitation Projects	27,236,456	29,687,000	20,822,000	19,700,000	19,700,000	19,700,000	109,609,000
Sanitary Sewer - Construction	37,299,950	52,672,000	49,012,000	27,500,000	26,300,000	26,300,000	181,784,000
City of Sunnyvale Sanitary Sewer Settlement	800,000						
Fee Administration - Sanitary Sewer	85,000	85,000	85,000	85,000	85,000	85,000	425,000
Flow Monitoring Program (Master Planning)	691,008	660,000	663,000	666,000	668,000	671,000	3,328,000
Infrastructure - Sanitary Sewer Condition Assessment	4,501,764	2,200,000	3,200,000	3,200,000	3,200,000	3,200,000	15,000,000
Master Planning Updates	1,927,683	1,814,000	1,849,000	1,884,000	1,920,000	1,957,488	9,424,488
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)	40,000	40,000	40,000	40,000	40,000	40,000	200,000
Pump Station SCADA Upgrade - Sanitary Sewer	300,000	100,000	100,000				200,000

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

Sanitary Sewer System

2024-2028 Adopted Capital Improvement Program

Use of Funds (Combined)

	Estimated						
	2022-2023	2023-2024	2024-2025	2025-2026	2026-2027	2027-2028	5-Year Total
General Non-Construction - Sanitary Sewer	9,630,455	6,184,000	7,222,000	7,160,000	7,198,000	7,238,488	35,002,488
Sanitary Sewer - Non Construction	9,630,455	6,184,000	7,222,000	7,160,000	7,198,000	7,238,488	35,002,488
Public Art Allocation	476,498	418,000	246,000	77,000	65,000	65,000	871,000
Public Art Projects	476,498	418,000	246,000	77,000	65,000	65,000	871,000
Capital Program and Public Works Department Support Service Costs	2,422,000	2,029,000	1,969,000	1,100,000	935,000	935,000	6,968,000
Infrastructure Management System	58,000	55,000	57,000	59,000	61,000	63,000	295,000
Allocations	2,480,000	2,084,000	2,026,000	1,159,000	996,000	998,000	7,263,000
City Hall Debt Service Fund	201,162	262,000	268,000	268,000	268,000	268,000	1,334,000
Transfers to Special Funds	201,162	262,000	268,000	268,000	268,000	268,000	1,334,000
Transfer to the General Fund	37,596						
Transfers to the General Fund	37,596						
Transfers Expense	238,758	262,000	268,000	268,000	268,000	268,000	1,334,000
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	50,125,661	79,020,000	58,774,000	36,164,000	34,827,000	34,869,488	243,654,488
Ending Fund Balance	68,943,909	29,003,909	7,409,909	8,375,909	10,678,909	12,939,421	12,939,421
TOTAL	119,069,570	108,023,909	66,183,909	44,539,909	45,505,909	47,808,909	256,593,909

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

Sanitary Sewer System
2024-2028 Adopted Capital Improvement Program
Detail of One-Time Projects

60 inch Brick Interceptor, Phase VIA and VIB

CSA	Environmental and Utility Services	Initial Start Date	3rd Qtr. 2009
CSA Outcome	Reliable Utility Infrastructure	Initial End Date	2nd Qtr. 2013
Location	5th and Commercial Streets to Zanker Road and Old Bayshore Highway	Revised Start Date	
Dept Owner	Public Works	Revised End Date	2nd Qtr. 2024
Council Districts	3	Initial Project Budget	\$10,442,000
Appropriation	A4969	FY Initiated	1991-1992

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.

Justification Based on the North San José Interceptor Study, this portion of the interceptor system requires additional capacity to serve the ultimate build out of the City.

Notes The FY Initiated date and Initial Project Budget shown above refer to Phase IIIA, IVB, and VB of the project. The costs for Phase VIB will be determined after Phase VIA is completed to determine the scope of Phase VIB. The revised completion date above refers to Phase VIA. The prior year funding shown in the chart below includes earlier phases of this project.

Major Cost Changes Prior to 2010-2011 - Increase of \$65.3 million due to changes in scope, construction costs, and additional project phases. 2011-2015 CIP - Decrease of \$19.7 million due to scope refinement. 2012-2016 CIP - Increase of \$17.7 million due to scope changes and cost estimate updates. 2014-2018 CIP - Decrease of \$6.3 million due to scope changes. 2015-2019 CIP - Decrease of \$1.2 million due to relocation of utilities on Fourth Street by the utility companies and cost adjustment by design consultant. 2016-2020 CIP - Increase of \$2.2 million due to scope change and cost estimate updates. 2017-2021 CIP - Decrease of \$392,000 due to scope change. 2019-2023 CIP - Increase of \$15.2 million after further analysis and review with design-build contractor. 2020-2024 CIP - Decrease of \$905,000 due to an updated cost estimate for construction in the remaining years.

	PRIOR YEARS	FY23 EST	FY24	FY25	FY26	FY27	FY28	5 YEAR TOTAL	BEYOND 5 YEARS	PROJECT TOTAL
Expenditure Schedule (000s)										
Project Feasibility Development	63									63
Design	5,249	112								5,361
Bid & Award	10									10
Construction	75,997	1,070	150					150		77,217
Post Construction	9									9
Total	81,328	1,182	150					150		82,660

	PRIOR YEARS	FY23 EST	FY24	FY25	FY26	FY27	FY28	5 YEAR TOTAL	BEYOND 5 YEARS	PROJECT TOTAL
Funding Source Schedule (000s)										
Sewer Service and Use Charge Capital Improvement Fund (545)	81,142	1,182	150					150		82,474
Sanitary Sewer Connection Fee Fund (540)	186									186
Total	81,328	1,182	150					150		82,660

	PRIOR YEARS	FY23 EST	FY24	FY25	FY26	FY27	FY28	5 YEAR TOTAL	BEYOND 5 YEARS	PROJECT TOTAL
Annual Operating Budget Impact (000s)										
Total										

Sanitary Sewer System
2024-2028 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	3rd Qtr. 2024
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	FY23 EST	FY24	FY25	FY26	FY27	FY28	5 YEAR TOTAL	BEYOND 5 YEARS	PROJECT TOTAL
Expenditure Schedule (000s)										
Project Feasibility Development	1									1
Design	48		282					282		330
Construction			2,826					2,826		2,826
Post Construction				22				22		22
Total	48		3,108	22				3,130		3,178

Funding Source Schedule (000s)										
Sewer Service and Use Charge Capital Improvement Fund (545)	48		3,108	22				3,130		3,178
Total	48		3,108	22				3,130		3,178

Annual Operating Budget Impact (000s)										
Total										

Sanitary Sewer System
2024-2028 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	4th 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	FY23 EST	FY24	FY25	FY26	FY27	FY28	5 YEAR TOTAL	BEYOND 5 YEARS	PROJECT TOTAL
Expenditure Schedule (000s)										
Project Feasibility Development	170									170
Design	23	15	300					300		338
Bid & Award		7								7
Construction		186	4,200	285				4,485		4,671
Post Construction				15				15		15
Total	192	208	4,500	300				4,800		5,200

Funding Source Schedule (000s)										
Sewer Service and Use Charge Capital Improvement Fund (545)	192	208	4,300	300				4,600		5,000
Sanitary Sewer Connection Fee Fund (540)			200					200		200
Total	192	208	4,500	300				4,800		5,200

Annual Operating Budget Impact (000s)										
Total										

Sanitary Sewer System
2024-2028 Adopted Capital Improvement Program
Detail of One-Time Projects

Chesbro Avenue Sanitary Sewer Improvement

CSA	Environmental and Utility Services	Initial Start Date	3rd Qtr. 2023
CSA Outcome	Reliable Utility Infrastructure	Initial End Date	2nd Qtr. 2026
Location	Chesbro Avenue from Los Huecos Drive to Blossom Hill Road	Revised Start Date	
Dept Owner	Public Works	Revised End Date	
Council Districts	10	Initial Project Budget	\$9,600,000
Appropriation	A433C	FY Initiated	2023-2024

Description This project will upsize approximately 5,230 linear feet of 18-inch diameter sanitary sewer main to 21 to 30-inch diameter.

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

Notes

Major Cost Changes

	PRIOR YEARS	FY23 EST	FY24	FY25	FY26	FY27	FY28	5 YEAR TOTAL	BEYOND 5 YEARS	PROJECT TOTAL
Expenditure Schedule (000s)										
Design			600	500				1,100		1,100
Construction				8,000	500			8,500		8,500
Total			600	8,500	500			9,600		9,600

Funding Source Schedule (000s)										
Sewer Service and Use Charge Capital Improvement Fund (545)			600	8,318	500			9,418		9,418
Sanitary Sewer Connection Fee Fund (540)				182				182		182
Total			600	8,500	500			9,600		9,600

Annual Operating Budget Impact (000s)										
Total										

Sanitary Sewer System
2024-2028 Adopted Capital Improvement Program
Detail of One-Time Projects

Coleman Road Sanitary Sewer Improvement - 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	FY23 EST	FY24	FY25	FY26	FY27	FY28	5 YEAR TOTAL	BEYOND 5 YEARS	PROJECT TOTAL
Expenditure Schedule (000s)										
Design		165	135					135		300
Construction			2,100					2,100		2,100
Total		165	2,235					2,235		2,400

Funding Source Schedule (000s)										
Sewer Service and Use Charge Capital Improvement Fund (545)		165	2,227					2,227		2,392
Sanitary Sewer Connection Fee Fund (540)			8					8		8
Total		165	2,235					2,235		2,400

Annual Operating Budget Impact (000s)										
Total										

Sanitary Sewer System
2024-2028 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	FY23 EST	FY24	FY25	FY26	FY27	FY28	5 YEAR TOTAL	BEYOND 5 YEARS	PROJECT TOTAL
Expenditure Schedule (000s)										
Design		150	150					150		300
Construction			1,200					1,200		1,200
Total		150	1,350					1,350		1,500

Funding Source Schedule (000s)										
Sewer Service and Use Charge Capital Improvement Fund (545)		150	1,343					1,343		1,493
Sanitary Sewer Connection Fee Fund (540)			7					7		7
Total		150	1,350					1,350		1,500

Annual Operating Budget Impact (000s)										
Total										

Sanitary Sewer System
2024-2028 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. 2023
Dept Owner	Public Works	Revised End Date	2nd Qtr. 2024
Council Districts	3	Initial Project Budget	\$5,500,000
Appropriation	A410E	FY Initiated	2013-2014

Description This project manages and completes the design of the Fourth Major Interceptor, Phase VIIA. After design, 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 Current funding amount is 2023-2024 is for design only. A total of \$15.0 million is included in the Fourth Major Interceptor Phase VII Reserve to build-up funding for the construction of this project that is estimated to be \$50.0 million.

Major Cost Changes

	PRIOR YEARS	FY23 EST	FY24	FY25	FY26	FY27	FY28	5 YEAR TOTAL	BEYOND 5 YEARS	PROJECT TOTAL
Expenditure Schedule (000s)										
Design			5,500					5,500		5,500
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 System
2024-2028 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	3rd Qtr. 2025
Council Districts	3	Initial Project Budget	\$2,400,000
Appropriation	A429W	FY Initiated	2022-2023

Description This project will upsize 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	FY23 EST	FY24	FY25	FY26	FY27	FY28	5 YEAR TOTAL	BEYOND 5 YEARS	PROJECT TOTAL
Expenditure Schedule (000s)										
Design		50	100					100		150
Bid & Award				25				25		25
Construction				1,865	150			2,015		2,015
Post Construction					50			50		50
Total		50	100	1,890	200			2,190		2,240

Funding Source Schedule (000s)										
Sewer Service and Use Charge Capital Improvement Fund (545)		50	100	1,875	180			2,155		2,205
Sanitary Sewer Connection Fee Fund (540)				15	20			35		35
Total		50	100	1,890	200			2,190		2,240

Annual Operating Budget Impact (000s)										
Total										

Sanitary Sewer System
2024-2028 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	FY23 EST	FY24	FY25	FY26	FY27	FY28	5 YEAR TOTAL	BEYOND 5 YEARS	PROJECT TOTAL
Expenditure Schedule (000s)										
Design		150	250					250		400
Bid & Award			25					25		25
Construction			3,225	100				3,325		3,325
Total		150	3,500	100				3,600		3,750

Funding Source Schedule (000s)										
Sewer Service and Use Charge Capital Improvement Fund (545)		150	3,140	100				3,240		3,390
Sanitary Sewer Connection Fee Fund (540)			360					360		360
Total		150	3,500	100				3,600		3,750

Annual Operating Budget Impact (000s)										
Total										

Sanitary Sewer System
2024-2028 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 1st 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	FY23 EST	FY24	FY25	FY26	FY27	FY28	5 YEAR TOTAL	BEYOND 5 YEARS	PROJECT TOTAL
Expenditure Schedule (000s)										
Design			2,000					2,000		2,000
Construction			4,000	1,000				5,000		5,000
Total			6,000	1,000				7,000		7,000

Funding Source Schedule (000s)										
Sewer Service and Use Charge Capital Improvement Fund (545)			6,000	1,000				7,000		7,000
Total			6,000	1,000				7,000		7,000

Annual Operating Budget Impact (000s)										
Total										

Sanitary Sewer System
2024-2028 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	City-wide	Revised Start Date	
Dept Owner	Public Works	Revised End Date	2nd Qtr. 2025
Council Districts	City-wide	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	FY23 EST	FY24	FY25	FY26	FY27	FY28	5 YEAR TOTAL	BEYOND 5 YEARS	PROJECT TOTAL
Expenditure Schedule (000s)										
Construction		200								200
Maintenance, Repairs, Other		100	100	100				200		300
Total		300	100	100				200		500

Funding Source Schedule (000s)										
Sewer Service and Use Charge Capital Improvement Fund (545)		300	100	100				200		500
Total		300	100	100				200		500

Annual Operating Budget Impact (000s)										
Total										

Sanitary Sewer System
2024-2028 Adopted Capital Improvement Program
Detail of One-Time Projects

South White Road Sanitary Sewer Improvement

CSA	Environmental and Utility Services	Initial Start Date	3rd Qtr. 2023
CSA Outcome	Reliable Utility Infrastructure	Initial End Date	2nd Qtr. 2025
Location	South White Road between Keaton Loop and Westgrove Lane	Revised Start Date	
Dept Owner	Public Works	Revised End Date	
Council Districts	8	Initial Project Budget	\$3,000,000
Appropriation	A432Z	FY Initiated	2023-2024

Description This project will upsize approximately 1,450 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	FY23 EST	FY24	FY25	FY26	FY27	FY28	5 YEAR TOTAL	BEYOND 5 YEARS	PROJECT TOTAL
Expenditure Schedule (000s)										
Design			200	150				350		350
Bid & Award				2,350				2,350		2,350
Construction				300				300		300
Total			200	2,800				3,000		3,000

Funding Source Schedule (000s)										
Sewer Service and Use Charge Capital Improvement Fund (545)			200	2,500				2,700		2,700
Sanitary Sewer Connection Fee Fund (540)				300				300		300
Total			200	2,800				3,000		3,000

Annual Operating Budget Impact (000s)										
Total										

Sanitary Sewer System
2024-2028 Adopted Capital Improvement Program
Detail of One-Time Projects

Southwest Expressway Sanitary Sewer Improvement

CSA	Environmental and Utility Services	Initial Start Date	3rd Qtr. 2023
CSA Outcome	Reliable Utility Infrastructure	Initial End Date	2nd Qtr. 2026
Location	Southwest Expressway from Stokes Street to Fruitdale Avenue; Fruitdale Avenue from Southwest Expressway to Meridian Avenue	Revised Start Date	
Dept Owner	Public Works	Revised End Date	
Council Districts	6	Initial Project Budget	\$9,000,000
Appropriation	A433A	FY Initiated	2023-2024

Description This project will upsized approximately 4,790 linear feet of 8-inch diameter sanitary sewer main to 10 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	FY23 EST	FY24	FY25	FY26	FY27	FY28	5 YEAR TOTAL	BEYOND 5 YEARS	PROJECT TOTAL
Expenditure Schedule (000s)										
Design			500	500				1,000		1,000
Bid & Award				30				30		30
Construction				7,470	500			7,970		7,970
Total			500	8,000	500			9,000		9,000

Funding Source Schedule (000s)										
Sewer Service and Use Charge Capital Improvement Fund (545)			500	8,000				8,500		8,500
Sanitary Sewer Connection Fee Fund (540)					500			500		500
Total			500	8,000	500			9,000		9,000

Annual Operating Budget Impact (000s)										
Total										

Sanitary Sewer System
2024-2028 Adopted Capital Improvement Program
Detail of One-Time Projects

Tisch Way Sanitary Sewer Improvement

CSA	Environmental and Utility Services	Initial Start Date	3rd Qtr. 2023
CSA Outcome	Reliable Utility Infrastructure	Initial End Date	2nd Qtr. 2025
Location	Tisch Way at Highway 280	Revised Start Date	
Dept Owner	Public Works	Revised End Date	
Council Districts	1	Initial Project Budget	\$1,800,000
Appropriation	A433B	FY Initiated	2023-2024

Description This project will install new sanitary sewer main in a new alignment to redirect sewer flows of an existing sanitary sewer siphon crossing under Highway 280.

Justification This project is required to improve flow characteristic of the sanitary sewer system in the area to prevent risk of sanitary sewer overflows.

Notes

Major Cost Changes

	PRIOR YEARS	FY23 EST	FY24	FY25	FY26	FY27	FY28	5 YEAR TOTAL	BEYOND 5 YEARS	PROJECT TOTAL
Expenditure Schedule (000s)										
Design			250					250		250
Construction			1,450	100				1,550		1,550
Total			1,700	100				1,800		1,800

	PRIOR YEARS	FY23 EST	FY24	FY25	FY26	FY27	FY28	5 YEAR TOTAL	BEYOND 5 YEARS	PROJECT TOTAL
Funding Source Schedule (000s)										
Sewer Service and Use Charge Capital Improvement Fund (545)			1,700	100				1,800		1,800
Total			1,700	100				1,800		1,800

	PRIOR YEARS	FY23 EST	FY24	FY25	FY26	FY27	FY28	5 YEAR TOTAL	BEYOND 5 YEARS	PROJECT TOTAL
Annual Operating Budget Impact (000s)										
Total										

Sanitary Sewer System
2024-2028 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.		

	FY23 Budget	FY23 EST	FY24	FY25	FY26	FY27	FY28	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	6,879	6,879	3,730	4,730	4,730	4,730	4,730	22,650
Total	7,149	7,149	4,000	5,000	5,000	5,000	5,000	24,000

	FY23 Budget	FY23 EST	FY24	FY25	FY26	FY27	FY28	5 Year Total
Funding Source Schedule (000s)								
Sewer Service and Use Charge Capital Improvement Fund (545)	7,149	7,149	4,000	5,000	5,000	5,000	5,000	24,000
Total	7,149	7,149	4,000	5,000	5,000	5,000	5,000	24,000

Sanitary Sewer System
2024-2028 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.		

	FY23 Budget	FY23 EST	FY24	FY25	FY26	FY27	FY28	5 Year 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	7,662	7,662	4,786	5,786	5,786	5,786	5,786	27,930
Total	7,876	7,876	5,000	6,000	6,000	6,000	6,000	29,000

Funding Source Schedule (000s)								
Sewer Service and Use Charge Capital Improvement Fund (545)	7,876	7,876	5,000	6,000	6,000	6,000	6,000	29,000
Total	7,876	7,876	5,000	6,000	6,000	6,000	6,000	29,000

Sanitary Sewer System
2024-2028 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.		

	FY23	FY23	FY24	FY25	FY26	FY27	FY28	5 Year
	Budget	EST						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 System
2024-2028 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.		

	FY23 Budget	FY23 EST	FY24	FY25	FY26	FY27	FY28	5 Year Total
Expenditure Schedule (000s)								
Project Feasibility Development	691	691	660	663	666	668	671	3,328
Total	691	691	660	663	666	668	671	3,328

Funding Source Schedule (000s)								
Sewer Service and Use Charge Capital Improvement Fund (545)	578	578	560	563	566	568	571	2,828
Sanitary Sewer Connection Fee Fund (540)	113	113	100	100	100	100	100	500
Total	691	691	660	663	666	668	671	3,328

Sanitary Sewer System
2024-2028 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.

	FY23 Budget	FY23 EST	FY24	FY25	FY26	FY27	FY28	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	7,294	7,294	3,795	6,045	6,045	6,045	6,045	27,975
Post Construction	100	100	100	100	100	100	100	500
Total	7,849	7,849	4,350	6,600	6,600	6,600	6,600	30,750

Funding Source Schedule (000s)								
Sewer Service and Use Charge Capital Improvement Fund (545)	7,849	7,849	4,000	6,500	6,500	6,500	6,500	30,000
Sanitary Sewer Connection Fee Fund (540)	0	0	350	100	100	100	100	750
Total	7,849	7,849	4,350	6,600	6,600	6,600	6,600	30,750

Sanitary Sewer System
2024-2028 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.		

	FY23	FY23	FY24	FY25	FY26	FY27	FY28	5 Year
	Budget	EST						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 System
2024-2028 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.		

	FY23 Budget	FY23 EST	FY24	FY25	FY26	FY27	FY28	5 Year Total
Expenditure Schedule (000s)								
Project Feasibility Development	4,502	4,502	2,200	3,200	3,200	3,200	3,200	15,000
Total	4,502	4,502	2,200	3,200	3,200	3,200	3,200	15,000

	FY23 Budget	FY23 EST	FY24	FY25	FY26	FY27	FY28	5 Year Total
Funding Source Schedule (000s)								
Sewer Service and Use Charge Capital Improvement Fund (545)	4,502	4,502	2,200	3,200	3,200	3,200	3,200	15,000
Total	4,502	4,502	2,200	3,200	3,200	3,200	3,200	15,000

Sanitary Sewer System
2024-2028 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.		

	FY23 Budget	FY23 EST	FY24	FY25	FY26	FY27	FY28	5 Year Total
Expenditure Schedule (000s)								
Project Feasibility Development	1,928	1,928	1,814	1,849	1,884	1,920	1,957	9,424
Total	1,928	1,928	1,814	1,849	1,884	1,920	1,957	9,424

Funding Source Schedule (000s)								
Sewer Service and Use Charge Capital Improvement Fund (545)	1,728	1,728	1,614	1,649	1,684	1,720	1,757	8,424
Sanitary Sewer Connection Fee Fund (540)	200	200	200	200	200	200	200	1,000
Total	1,928	1,928	1,814	1,849	1,884	1,920	1,957	9,424

Sanitary Sewer System
2024-2028 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.		

	FY23	FY23						5 Year
	Budget	EST	FY24	FY25	FY26	FY27	FY28	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 System
2024-2028 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 Valley Water by City staff. As is customary practice between public agencies, as well as State law, the City and Valley Water do not charge one another for these services.		

	FY23 Budget	FY23 EST	FY24	FY25	FY26	FY27	FY28	5 Year Total
Expenditure Schedule (000s)								
General Administration	25	25	25	25	25	25	25	125
Total	25	25	25	25	25	25	25	125

	FY23 Budget	FY23 EST	FY24	FY25	FY26	FY27	FY28	5 Year Total
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 System
2024-2028 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.		

	FY23 Budget	FY23 EST	FY24	FY25	FY26	FY27	FY28	5 Year 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 System
2024-2028 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.		

	FY23 Budget	FY23 EST	FY24	FY25	FY26	FY27	FY28	5 Year 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 System
2024-2028 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.

	FY23 Budget	FY23 EST	FY24	FY25	FY26	FY27	FY28	5 Year Total
Expenditure Schedule (000s)								
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 System
2024-2028 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.		

	FY23 Budget	FY23 EST	FY24	FY25	FY26	FY27	FY28	5 Year Total
Expenditure Schedule (000s)								
Property & Land	9	9						
Design	3	3						
Bid & Award	516	5	511					511
Construction	1,153	2	1,152					1,152
Post Construction	16		16					16
Total	1,698	19	1,679					1,679

Funding Source Schedule (000s)								
Sewer Service and Use Charge Capital Improvement Fund (545)	1,698	19	1,679					1,679
Total	1,698	19	1,679					1,679

Sanitary Sewer System
2024-2028 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.

	FY23 Budget	FY23 EST	FY24	FY25	FY26	FY27	FY28	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

	FY23 Budget	FY23 EST	FY24	FY25	FY26	FY27	FY28	5 Year Total
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 System
2024-2028 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 rehabilitate and/or replace those identified with upgrade needs.		

	FY23	FY23						5 Year
	Budget	EST	FY24	FY25	FY26	FY27	FY28	Total
Expenditure Schedule (000s)								
Project Feasibility Development	200		100	100	100	100	100	500
Design	360		180	180	180	180	180	900
Bid & Award	40		20	20	20	20	20	100
Construction	5,400		2,700	2,700	2,700	2,700	2,700	13,500
Total	6,000		3,000	3,000	3,000	3,000	3,000	15,000

Funding Source Schedule (000s)								
Sewer Service and Use Charge Capital Improvement Fund (545)	6,000		3,000	3,000	3,000	3,000	3,000	15,000
Total	6,000		3,000	3,000	3,000	3,000	3,000	15,000

Sanitary Sewer System
2024-2028 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.		

	FY23 Budget	FY23 EST	FY24	FY25	FY26	FY27	FY28	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	10,942	10,942	3,950	4,450	4,450	4,450	4,450	21,750
Post Construction	10	10	10	10	10	10	10	50
Total	11,492	11,492	4,500	5,000	5,000	5,000	5,000	24,500

Funding Source Schedule (000s)								
Sewer Service and Use Charge Capital Improvement Fund (545)	11,492	11,492	4,500	5,000	5,000	5,000	5,000	24,500
Total	11,492	11,492	4,500	5,000	5,000	5,000	5,000	24,500

Sanitary Sewer System
2024-2028 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 3

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 \$50 million for the construction of Phase VIIA.

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.
