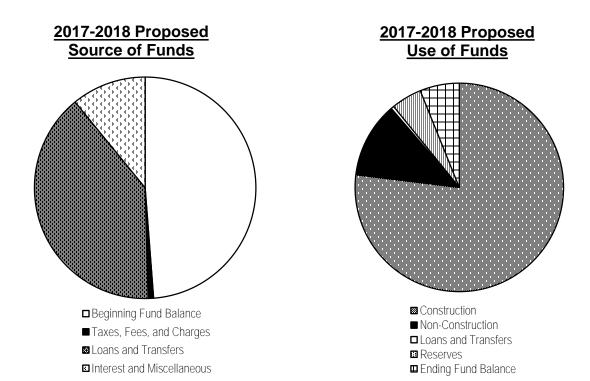
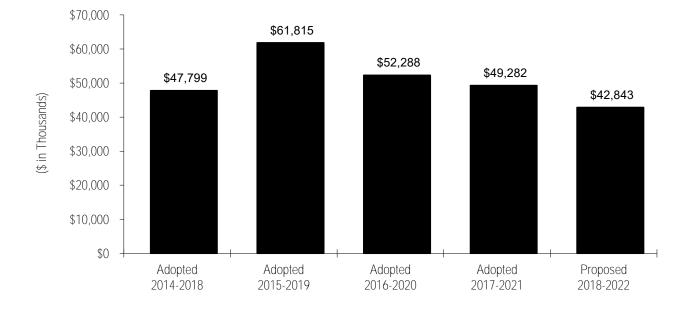
# 2017-2018 CAPITAL BUDGET

# 2018-2022 Capital Improvement Program

# Storm Sewer System

# STORM SEWER SYSTEM 2018-2022 Capital Improvement Program





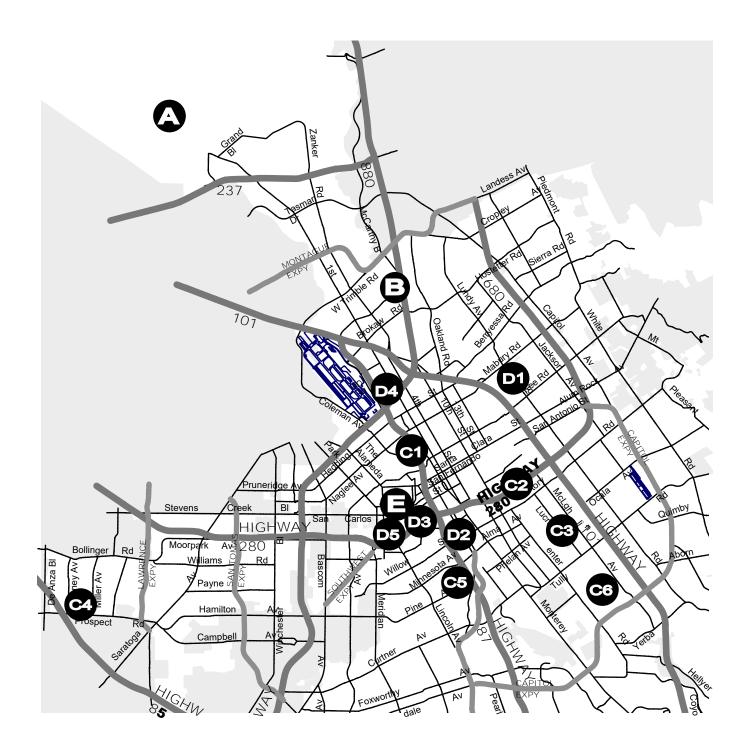
**CIP History** 

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## 2018-2022 Proposed Capital Improvement Program

North

- A) Alviso Storm Pump Station
- **B)** Charcot Storm Pump Station at Coyote Creek
- **C)** Citywide Outfall Rehabilitation (1, 2, 3, 4, 5, 6)
- **D)** Large Trash Capture Devices (1, 2, 3, 4, 5)
- **E)** Park Ave. Green Street Pilot

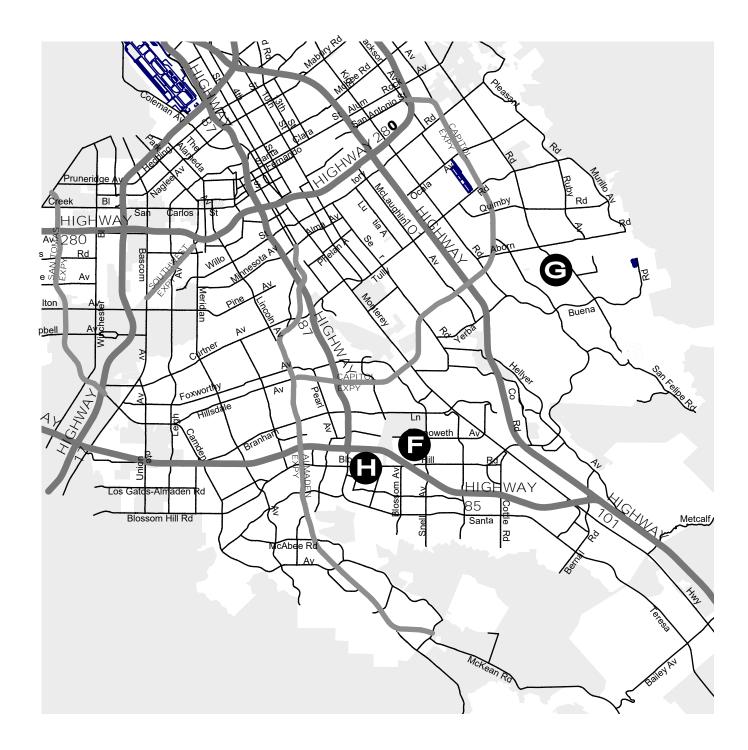


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## 2018-2022 Proposed Capital Improvement Program

South

- **F)** Chynoweth Ave. Green Street
- **G)** Citywide Outfall Rehabilitation
- **H)** Large Trash Capture Device



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Overview

#### INTRODUCTION

The Storm Sewer System of the City of San José consists of approximately 1,130 miles of sewer mains and 30 stormwater pump stations. The Storm Sewer System, which is separate from the Sanitary Sewer System, collects storm water and eventually conveys into the Guadalupe River or Coyote Creek. The City is responsible for designing, constructing, and maintaining facilities for conveyance of stormwater runoff within the City's Urban Service Area to adjacent stream channels in accordance with the available budget and City Council priorities. Most of the design and construction of flood

STORM SEWER SYSTEM								
PUBLIC INFRASTRUCTURE								
MILES OF STORM MAINS								
Smaller than 12" in diameter	80							
12" to 18" in diameter	500							
Over 18" in diameter	550							
NUMBER OF INLETS	32,200							
NUMBER OF MANHOLES	27,530							
NUMBER OF OUTFALLS	1,510							
NUMBER OF PUMP	30							
STATIONS								

control facilities and the modification and maintenance of stream channels is the responsibility of the Santa Clara Valley Water District and the U.S. Army Corps of Engineers.

The 2018-2022 Proposed Capital Improvement Program (CIP) provides funding of \$42.8 million, of which \$25.3 million is allocated in 2017-2018. The 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 primary objective of the Storm Sewer Capital Program is to plan and construct improvements to the storm sewer collection system that reduce the risk of flooding and prevent property damage while managing the quality of stormwater runoff. Based on the CSA outcomes supported by this program, the following list of priorities has been developed:

- Area-wide drainage capacity projects are identified and developed through the Storm Sewer Master Plan, which is based on the Envision San José 2040 General Plan (General Plan);
- Critical storm sewer system improvements that address localized ponding and flooding are generally identified through inspection and maintenance activities; and
- Regulatory compliance as required by Municipal Stormwater Regional Permit.

#### SOURCES OF FUNDING

The 2018-2022 Proposed CIP provides funding of \$42.8 million, of which \$25.3 million is allocated in 2017-2018. The program funding level decreased by \$6.5 million from \$49.3 million in the 2017-2021 Adopted CIP, mainly due to the completion of several multi-million dollar projects (anticipated to be completed in 2016-2017) through the five-year CIP. Revenues for this CIP are derived primarily from the following sources: transfers from the Storm Sewer Operating Fund, California Proposition 84 Grants, and Storm Sewer Connection Fees. The Proposed CIP assumes no rate increase for the Storm Sewer Operating Fund for 2017-2018.

Overview

#### SOURCES OF FUNDING

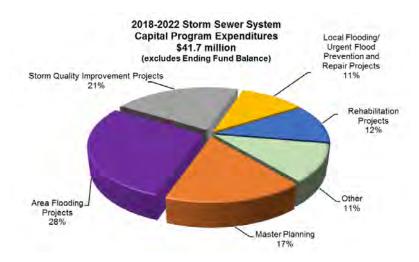
California Proposition 84 Stormwater Grant and Integrated Regional Water Management Program Grant will fund the design and construction of the Park Avenue Green Street Pilot and Chynoweth Avenue Green Street projects. The Storm Drainage Fee is charged to developers as a connection fee for any project that will discharge storm water, surface water, or ground water runoff into the City's storm sewer system. The fee is based on the use and size of the parcel being developed.



Summary of Revenues

#### **PROGRAM HIGHLIGHTS**

The Storm 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.



Overview

#### **PROGRAM HIGHLIGHTS**

Projects in this Proposed CIP include the installation of technology and infrastructure to maximize the efficiency of the storm sewer collection system and the reliability of storm pump stations, manage the quality of storm water runoff, and minimize ponding and flooding in residential areas.

#### Storm Sewer Master Plan

The Storm Sewer Master Plan is a comprehensive effort to identify and needed capacity-related prioritize improvements to the storm sewer system by analyzing current conditions and the anticipated future land use developments in the General Plan. The Storm Sewer Master Plan will also integrate water quality considerations wherever possible to capture pollutants prior to discharge into waterways. This effort will be the framework used as for development of future Storm CIPs. Since the mid-1980s, the City's design standard required that storm drain systems be designed to convey a 10year storm event. The master plan will recommend storm drain system improvements to handle the 10-year storm event at the General Plan 2040



Pipe and Riverline Model

land use scenario. A majority of the existing storm sewer system can only effectively convey the storm run-off from a one- to three-year storm event. The city-wide storm sewer master plan study using the fully dynamic, integrated urban and river catchments modeling platform began in 2013-2014 and is anticipated to be completed in 2017. The ongoing planning efforts have a total allocation of \$6.9 million in the 2018-2022 Proposed CIP, which includes \$5.5 million for Master Planning and \$1.4 million for Flow Monitoring. Once the master plan study is completed, staff will develop and recommend a financing strategy to construct the desired improvements.

#### Critical Storm Sewer Improvements

#### Storm Sewer Capacity Improvement

Capacity improvement projects are those that prevent flooding over larger areas or drainage basins by constructing large-diameter storm sewers or new pump stations that are identified through past area-specific capacity studies and validated through the ongoing master plan effort.

### Overview

#### **PROGRAM HIGHLIGHTS**

#### **Rehabilitation of Existing Facilities**

The primary focus of rehabilitation projects is to address deteriorated outfall structures and aging mechanical and electrical components at storm sewer pump stations. Over the five-year Proposed CIP, total funding of approximately \$4.9 million is programmed for rehabilitation projects, which include: \$2.1 million for Storm Pump Station Rehabilitation and Replacement, \$1.9 million for Outfall Rehabilitation – Capital, and \$850,000 for Condition Assessment Storm Sewer Repairs.

#### Local Flooding/Urgent Flood Prevention and Repair

Localized ponding and flooding projects can be addressed by the installation of new and/or relocated storm inlets and laterals and the reconstruction of displaced flow lines or minor extensions of local storm sewer systems that are generally identified through reoccurring maintenance activities at specific locations. Funding of approximately \$2.5 million is programmed for rehabilitation projects in the Storm Sewer Improvements allocation, which is a consolidation of the Minor Neighborhood Storm Sewer Improvements and Storm Sewer Improvements – Special Corridors allocations in prior years. Further funding of \$2.1 million for Urgent Flood Prevention and Repair Projects will be used to address issues that may fall into any of the above categories. These projects are developed during the year in response to urgent needs.

Regulatory Compliance for Stormwater Quality Improvement Projects



Example of a Stormwater Bioretention Treatment Facility in South San José

Provision C.3 (New Development and Redevelopment) of the San Francisco Bay Regional Water Quality Control Board Municipal Regional Permit (MRP) requires development projects to address both soluble and insoluble stormwater runoff pollutant discharges and prevent increases in runoff flows to local water bodies through the implementation of Low Impact Development (LID) techniques. The goal of LID is to reduce runoff and mimic a site's predevelopment hydrology by minimizing disturbed areas and impervious cover and then infiltrating, storing, detaining, evapotranspiring, and/or biotreating stormwater runoff close to its source.

The City has secured grant funding for the green street retrofit projects, which in 2017-2018 are anticipated to be completed: Chynoweth Avenue Green Street (\$112,000) and Park Avenue Green Street Pilot (\$38,000). To date, \$3.6 million has been encumbered in 2016-2017 to deliver these projects. Due to rising costs in construction, the Ocala Avenue Green Street project will be delayed until additional funding can be secured to support the construction of the project. Green elements included in these projects consist of bioretention areas, or "rain gardens", that function as a soil- and

### 2018-2022 Proposed Capital Improvement Program

#### Overview

#### **PROGRAM HIGHLIGHTS**

plant-based filtration measure, and pervious pavers and infiltration trenches, which will allow stormwater run-off to infiltrate into the ground. In the 2018-2022 Proposed CIP, project allocations for the Chynoweth Avenue Green Street and Park Avenue Green Street Pilot total approximately \$150,000 as these projects will be significantly completed before the end of 2016-2017, sourced by approximately \$2.6 million in grant funding and approximately \$680,000 in matching funds.

Provision C.10 of the Municipal Regional Stormwater Permit (MRP) regulates the implementation of control measures and other actions required to reduce trash loads from the storm sewer system into the City's receiving waters. One of the control measures required by the provision is the installation of trash capture devices near locations identified as high-trash impacted locations. Funding of approximately \$6.5 million over the five-year CIP will be used for the design and installation of Large Trash Capture Devices throughout the City to meet MRP Provision C.10 trash reduction requirements.

#### MAJOR CHANGES FROM THE 2017-2021 ADOPTED CIP

The overall size of the Storm Sewer System CIP has decreased by \$6.5 million from \$49.3 million in the 2017-2021 Adopted CIP to \$42.8 million in the 2018-2022 Proposed CIP, mainly due to the completion of several multi-million dollar projects (anticipated to be completed in 2016-2017) through the five-year CIP. The following table outlines the most significant changes to project budgets, including new/augmented allocations and reduced/eliminated allocations.

Project	Incr/(Decr)
Green Infrastructure Improvements	\$2,300,000
Ocala Avenue Green Street	(\$2,526,000)
Chynoweth Avenue Green Street	(\$2,075,000)
Condition Assessment Storm Sewer Repairs	(\$1,650,000)

#### **OPERATING BUDGET IMPACT**

The Department of Transportation maintains the City's Storm Sewer System. There are currently no additional operating and maintenance costs associated with the projects in the 2018-2022 Proposed CIP. However, the 2017-2018 Proposed Operating Budget will add resources for the monitoring and maintenance of stormwater bioretention facilities and well cleaning and maintenance of large trash capture devices. While these costs are known, the overall costs to operate and maintain Green Streets are still under development, as this infrastructure is new to City operations. Future operation and maintenance costs will be developed in conjunction with the upcoming Green Infrastructure Plan.

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# 2017-2018 CAPITAL BUDGET

# 2018-2022 Capital Improvement Program

# STORM SEWER SYSTEM

Source and Use of Funds Statements

# 2018-2022 Proposed Capital Improvement Program

# Source of Funds (Combined)

	Estimated 2016-2017	2017-2018	2018-2019	2019-2020	2020-2021	2021-2022	5-Year Total
Storm Sewer Capital Fund							
Beginning Balance	24,019,478	11,668,849	1,014,334	589,334	537,334	587,334	11,668,849
Reserve for Encumbrance	8,326,461						
Transfers							
Transfer from Storm Sewer Operating Fund (446) TOTAL Transfers	11,400,000 <b>11,400,000</b>	10,000,000 <b>10,000,000</b>	4,000,000 <b>4,000,000</b>	4,000,000 <b>4,000,000</b>	4,000,000 <b>4,000,000</b>	4,000,000 <b>4,000,000</b>	26,000,000 <b>26,000,000</b>
$_{ m N}$ Revenue from Use of Money and Property							
ன் Interest Income TOTAL Revenue from Use of Money and Property	249,000 <b>249,000</b>	171,000 <b>171,000</b>	173,000 <b>173,000</b>	175,000 <b>175,000</b>	177,000 <b>177,000</b>	179,000 <b>179,000</b>	875,000 <b>875,000</b>
Revenue from State of California							
CA Proposition 84 Integrated Regional Water Management Program Grant		1,816,000					1,816,000
CA Proposition 84 Stormwater Grant		760,485					760,485
TOTAL Revenue from State of California		2,576,485					2,576,485
Total Storm Sewer Capital Fund	43,994,939	24,416,334	5,187,334	4,764,334	4,714,334	4,766,334	41,120,334
Storm Drainage Fee Fund							
Beginning Balance	511,942	672,494	530,494	492,494	504,494	516,494	672,494
Reserve for Encumbrance	196,552						

# 2018-2022 Proposed Capital Improvement Program

# Source of Funds (Combined)

	Estimated						
	<u>2016-2017</u>	2017-2018	2018-2019	2019-2020	2020-2021	2021-2022	5-Year Total
Revenue from Use of Money and Property							
Interest Income	6,000	6,000	6,000	6,000	6,000	6,000	30,000
TOTAL Revenue from Use of Money and Property	6,000	6,000	6,000	6,000	6,000	6,000	30,000
Revenue from Local Agencies							
Joint Participation with the City of Cupertino	4,000	4,000	4,000	4,000	4,000	4,000	20,000
TOTAL Revenue from Local Agencies	4,000	4,000	4,000	4,000	4,000	4,000	20,000
Fees, Rates and Charges							
Storm Drainage Fees	250,000	200,000	200,000	200,000	200,000	200,000	1,000,000
TOTAL Fees, Rates and Charges	250,000	200,000	200,000	200,000	200,000	200,000	1,000,000
217							
Total Storm Drainage Fee Fund	968,494	882,494	740,494	702,494	714,494	726,494	1,722,494
TOTAL SOURCES	44,963,433	25,298,828	5,927,828	5,466,828	5,428,828	5,492,828	42,842,828

# 2018-2022 Proposed Capital Improvement Program

# **Use of Funds (Combined)**

		Estimated						
		2016-2017	2017-2018	2018-2019	2019-2020	2020-2021	2021-2022	5-Year Total
2	Storm Sewer System							
	Alviso Storm Pump Station	918,089	9,021,000	45,000				9,066,000
	Chynoweth Avenue Green Street	2,355,000	112,000					112,000
	Condition Assessment Storm Sewer Repairs	581,310	250,000	150,000	150,000	150,000	150,000	850,000
	Large Trash Capture Devices	16,568,940	6,210,000	273,000				6,483,000
	Storm Sewer Improvements	1,842,345	500,000	500,000	500,000	500,000	500,000	2,500,000
	Ocala Avenue Green Street Project	200,000						
	Outfall Rehabilitation - Capital	341,618	800,000	300,000	300,000	250,000	250,000	1,900,000
	Park Avenue Green Street Pilot	1,221,256	38,000					38,000
2020	Stockton Avenue - Julian Street Storm Sewer Improvements		350,000					350,000
	Storm Pump Station Rehabilitation and Replacement	1,402,943	1,000,000	300,000	300,000	250,000	250,000	2,100,000
	Storm Sewer Improvements - Special Corridors	1,087,108						
	Urgent Flood Prevention and Repair Projects	1,504,529	600,000	400,000	350,000	350,000	350,000	2,050,000
	Green Infrastructure Improvements		500,000	450,000	450,000	450,000	450,000	2,300,000
	Other Storm Sewer - Construction	28,023,138	19,381,000	2,418,000	2,050,000	1,950,000	1,950,000	27,749,000
ę	Storm Sewer - Construction	28,023,138	19,381,000	2,418,000	2,050,000	1,950,000	1,950,000	27,749,000
	Charcot Storm Pump Rental	300,000	300,000	300,000	300,000	300,000	300,000	1,500,000
	Fee Administration - Storm Sewer	25,000	25,000	25,000	25,000	25,000	25,000	125,000
	Flow Monitoring Program	363,342	350,000	300,000	250,000	250,000	250,000	1,400,000
	Storm Sewer Master Plan - City-wide	2,118,110	1,100,000	1,100,000	1,100,000	1,100,000	1,100,000	5,500,000
	Preliminary Engineering - Storm Sewer	180,000	180,000	180,000	180,000	180,000	180,000	900,000
	Program Management - Storm Sewer	150,000	150,000	150,000	150,000	150,000	150,000	750,000
	Permit Review and Inspection for Outside Agencies - Storm Sewer	50,000	50,000	50,000	50,000	50,000	50,000	250,000

# 2018-2022 Proposed Capital Improvement Program

# Use of Funds (Combined)

	Estimated						
	2016-2017	2017-2018	2018-2019	2019-2020	2020-2021	2021-2022	5-Year Total
General Non-Construction - Storm Sewer	3,186,452	2,155,000	2,105,000	2,055,000	2,055,000	2,055,000	10,425,000
Storm Sewer - Non Construction	3,186,452	2,155,000	2,105,000	2,055,000	2,055,000	2,055,000	10,425,000
Public Art Allocation	472,500	85,000	15,000	12,000	12,000	12,000	136,000
Public Art Projects	472,500	85,000	15,000	12,000	12,000	12,000	136,000
Capital Program and Public Works Department Support Service Costs	792,000	807,000	173,000	173,000	173,000	173,000	1,499,000
Infrastructure Management System	6,000	7,000	7,000	7,000	7,000	7,000	35,000
Allocations	798,000	814,000	180,000	180,000	180,000	180,000	1,534,000
City Hall Debt Service Fund	104,000	113,000	122,000	122,000	122,000	122,000	601,000
Transfers to Special Funds	104,000	113,000	122,000	122,000	122,000	122,000	601,000
General Fund - Human Resources/Payroll/ Budget Systems Upgrade	4,000						
General Fund - Interest Income	34,000	6,000	6,000	6,000	6,000	6,000	30,000
Transfers to the General Fund	38,000	6,000	6,000	6,000	6,000	6,000	30,000
C Transfers Expense	142,000	119,000	128,000	128,000	128,000	128,000	631,000
Alviso Storm Pump Station Reserve		1,200,000					1,200,000
Expense Reserves - Non Construction		1,200,000					1,200,000
Total Expenditures	32,622,090	23,754,000	4,846,000	4,425,000	4,325,000	4,325,000	41,675,000
Ending Fund Balance	12,341,343	1,544,828	1,081,828	1,041,828	1,103,828	1,167,828	1,167,828
TOTAL	44,963,433	25,298,828	5,927,828	5,466,828	5,428,828	5,492,828	42,842,828

# 2017-2018 CAPITAL BUDGET

# 2018-2022 Capital Improvement Program

# STORM SEWER SYSTEM

**DETAIL OF PROJECTS** 

2018-2022 Proposed Capital Improvement Program

## **Detail of One-Time Construction Projects**

# **Alviso Storm Pump Station**

CSA CSA Outcome Department	Environmental and Utility Services Reliable Utility Infrastructure Public Works	Initial Start Date Initial End Date Revised Start Date	3rd Qtr. 2013 2nd Qtr. 2014
Location Council Districts	Gold St and Catherine St; Catherine St, Guadalupe River	Revised End Date	2nd Qtr. 2019
Appropriation	A7623	Initial Project Budget FY Initiated	\$1,500,000 2013-2014
			2013-2014
Description Justification	This project will build a new 110 cubic feet per second (CFS) storm pump 48-inch HDPE (High Density Polyethylene) force main on the north-west c new force main and outfall will be constructed along Catherine Street and This project will provide a storm pump station with a 100-year storm event station will remain as additional back up.	orner of Gold Street and o through the levee into Gu	Catherine Street. A adalupe River.
Notes			
Major Cost Changes	2015-2019 CIP - Increase of \$500,000 due to the inclusion of the "Gold St into this project. 2016-2020 CIP - Increase of \$8.8 million. Funding from the Alviso Storm F final design and construction of the project. 2017-2021 CIP - Decrease of \$566,000 due to a refined project scope and	Pump Station Reserve wa	

	PRIOR	FY17	FY18	FY19	FY20	FY21	FY22	5 YEAR	BEYOND	PROJECT
	YEARS	EST						TOTAL	5 YEARS	TOTAL
			Expenditu	ure Scheo	dule (000s	5)				
General Administration		213								213
Project Feasibility										
Development	236	3								238
Design	886	3								888
Construction	4	700	9,021					9,021		9,725
Post Construction				45				45		45
Total	1,125	918	9,021	45				9,066		11,110

Funding Source Schedule (000s)										
Storm Sewer Capital Fund	1,125	918	9,021	45	9,066	11,110				
Total	1,125	918	9,021	45	9,066	11,110				

#### Annual Operating Budget Impact (000s)

2018-2022 Proposed Capital Improvement Program

### **Detail of One-Time Construction Projects**

### **Large Trash Capture Devices**

CSA CSA Outcome Department	Environmental and Utility Services Reliable Utility Infrastructure Public Works	Initial Start Date Initial End Date Revised Start Date	3rd Qtr. 2014 2nd Qtr. 2016
Location	City-wide	<b>Revised End Date</b>	2nd Qtr. 2019
Council Districts	Gity-wide	Initial Project Budget	\$11,480,000
Appropriation	A7676	FY Initiated	2014-2015
Description	This project includes the installation of Large Trash Capture (LTC) devices Municipal Regional Permit Provision C.10 trash reduction requirements. T for the treated acreage to count toward the City's trash reduction goals.		
Justification	This project will reduce and/or remove trash from the City's storm sewer sy ways.	ystem prior to discharging	into local water
Notes	The costs to operate and maintain the large trash capture devices are still frequency of these devices is new to the City's operations. Future operation upon the installation of new devices.		
Major Cost Changes	2017-2021 CIP - Increase of \$1.7 million to support the installation of addi 2022 CIP - Increase of \$11.9 million million to support the installation of La		

	PRIOR YEARS	FY17 EST	FY18	FY19	FY20	FY21	FY22	5 YEAR TOTAL	BEYOND 5 YEARS	PROJECT TOTAL
			Expenditu	ure Scheo	dule (000s	s)				
Project Feasibility										
Development	183	100								283
Design	321	447	83					83		851
Bid & Award	39	20	27					27		86
Construction	1,458	16,002	6,000	236				6,236		23,696
Post Construction			100	37				137		137
Total	2,001	16,569	6,210	273				6,483		25,053

Funding Source Schedule (000s)											
Storm Sewer Capital Fund	2,001	16,569	6,210	273	6,483	25,053					
Total	2,001	16,569	6,210	273	6,483	25,053					

#### Annual Operating Budget Impact (000s)

Maintenance Total

# **Detail of One-Time Construction Projects**

# **Stockton Avenue - Julian Street Storm Sewer Improvements**

CSA	Environment	•					Init	tial Start I	Date	3rd Qtr. 201	16
CSA Outcome	Reliable Utilit	-	ure				Init	tial End D	ate	2nd Qtr. 20	17
Department	Public Works						Re	vised Sta	rt Date	3rd Qtr. 2017	
Location	Stockton Ave	enue and Juli	ian Street				<b>Revised End Date</b>		l Date	2nd Qtr. 20	18
Council Districts						Init	tial Projec	t Budget	\$350,000		
Appropriation	A7802						FY	Initiated		2016-2017	
Description	This project i an existing 5 Stockton Ave allocated in 2 routes and de project will be preliminary p	4-inch storm nue between 017-2018 fo etermine the e further dev	pipe and o n Schiele A r the prelin phasing o	outfall syste Avenue and ninary phas f specific in	em on Julia I The Alam se of the pr provemen	in Street. In reda to con roject, which its to occur	n addition, vey storm i h will ident in this area	it will cons runoff to J ify feasible a. It is pre	struct a 30- ulian Street storm pipe liminarily a	to 54-inch pi . Funding is locations an nticipated that	pe on nd
Justification	This project i	s needed du	e to minim	al storm ca	pacity in th	ne existing :	storm sewe	er system.			
Justification Notes	This project i	s needed du	e to minim	al storm ca	pacity in th	ne existing s	storm sewe	er system.			
Notes Major Cost	This project i	s needed du	e to minim	al storm ca	pacity in th	ie existing s	storm sewe	er system.			
Notes Major Cost	This project i	s needed du PRIOR YEARS	FY17 EST	FY18	FY19	FY20	FY21	er system. FY22	5 YEAR TOTAL		
Notes Major Cost	This project i	PRIOR	FY17 EST		FY19	FY20	FY21	·	5 YEAR		
Notes Major Cost Changes		PRIOR	FY17 EST	FY18	FY19	FY20	FY21	·	5 YEAR		PROJECT TOTAL 350
		PRIOR	FY17 EST	FY18 Expenditu	FY19	FY20	FY21	·	5 YEAR TOTAL		TOTAL
Notes Major Cost Changes Project Feasibility		PRIOR	FY17 EST	FY18 Expenditu 350	FY19	FY20	FY21	·	5 YEAR TOTAL 350		<b>TOTAL</b> 350
Notes Major Cost Changes Project Feasibility		PRIOR	FY17 EST	FY18 Expenditu 350	FY19 ire Scheo	FY20 dule (000s	FY21	·	5 YEAR TOTAL 350		<b>TOTAL</b> 350
Notes Major Cost Changes Project Feasibility	/ Development	PRIOR	FY17 EST	FY18 Expenditu 350 350	FY19 ire Scheo	FY20 dule (000s	FY21	·	5 YEAR TOTAL 350		<b>TOTAL</b> 350

# **Detail of Ongoing Construction Projects**

# **Condition Assessment Storm Sewer Repairs**

CSA	Environmental and Utility Services	Initial Start Date	Ongoing					
CSA Outcome	Reliable Utility Infrastructure	Initial End Date	Ongoing					
Department	Public Works	<b>Revised Start Date</b>	0 0					
Location	City-wide	<b>Revised End Date</b>						
Council Districts	City-wide	Initial Project Budget						
Appropriation	A7801							
Description	This allocation funds the development and implementation of contracts to identify and repair damaged pipes in the storm sewer system, and includes multiple projects each year as they are identified. Areas with groundwater infiltration and significant structural deficiencies will be the focus of these identify-and-repair contracts.							
Justification	This allocation is required due to structural deterioration of aging storm se	wers.						
Notes	Project schedule dates and selected budget information are not provided	due to the ongoing nature	of this project.					
Major Cost Changes								

	FY17	FY18	FY19	FY20	FY21	FY22	5 YEAR
	EST						TOTAL
		Expenditure	Schedule (0	00s)			
Project Feasibility		_	_	_	_	_	
Development	10	5	5	5	5	5	25
Design	50	25	25	25	25	25	125
Bid & Award	10	5	5	5	5	5	25
Construction	511	215	115	115	115	115	675
Total	581	250	150	150	150	150	850

Funding Source Schedule (000s)								
Storm Sewer Capital Fund	581	250	150	150	150	150	850	
Total	581	250	150	150	150	150	850	

Annual Operating Budget Impact (000s)

2018-2022 Proposed Capital Improvement Program

# **Detail of Ongoing Construction Projects**

# **Green Infrastructure Improvements**

CSA CSA Outcome Department	Environmental and Utility Serv Reliable Utility Infrastructure Public Works	vices		Init Re	ial Start Date ial End Date vised Start Dat		-
Location Council Districts	City-wide			Revised End Date			
Appropriation	TEMP 106			Init	ial Project Buc	igei	
Appropriation							
Description	This allocation funds projects The goal is to reduce impervic improve water quality by treati in San Jose.	ous surfaces throu	gh the use of lo	w impact develo	opment that will	reduce the flor	w rate and
Justification	This allocation will implement waterways and allow groundw						the
Notes	Selected budget information is	s not provided due	e to the ongoing	nature of this p	roject.		
Major Cost Changes							
	FY17 EST	FY18	FY19	FY20	FY21	FY22	5 YEAR TOTAL
		Expenditure	Schedule (0	00s)			
Project Feasibility	Development	500	450	450	450	450	2,300
Total		500	450	450	450	450	2,300
		Funding Sour	ce Schedule	(000s)			
Storm Sewer Cap	ital Fund	500	450	450	450	450	2,300
Total		500	450	450	450	450	2,300

Annual Operating Budget Impact (000s)	
Total	

2018-2022 Proposed Capital Improvement Program

## **Detail of Ongoing Construction Projects**

# **Outfall Rehabilitation - Capital**

CSA CSA Outcome Department Location Council Districts Appropriation	Environmental and Utility Services Reliable Utility Infrastructure Public Works City-wide City-wide A4245	Initial Start Date Initial End Date Revised Start Date Revised End Date Initial Project Budget	Ongoing Ongoing					
Description	This allocation funds the construction or rehabilitation of storm drain outfalls at various locations throughout the City. The Department of Transportation (DOT) has identified more than 250 outfalls that are missing, deteriorated, or in need of improvement to bring them to current design standards. This ongoing allocation funds the most critical outfall construction based on priorities jointly established by DOT, the Department of Public Works, and the regulatory agencies.							
Justification	This allocation will repair aging outfall structures, enhance erosion protect maintenance operations.	on and water quality, and	alleviate					
Notes	Project schedule dates and selected budget information are not provided of	lue to the ongoing nature	of this project.					
Major Cost Changes								

	FY17	FY18	FY19	FY20	FY21	FY22	5 YEAR
	EST	Expondituro	Schedule (0	າມອາ			TOTAL
		Expenditure	Schedule (0	JUS/			
General Administration Project Feasibility	199						
Development	3						
Design	140						
Construction		800	300	300	250	250	1,900
Total	342	800	300	300	250	250	1,900

Funding Source Schedule (000s)								
Storm Sewer Capital Fund	342	800	300	300	250	250	1,900	
Total								

#### Annual Operating Budget Impact (000s)

### **Detail of Ongoing Construction Projects**

# **Storm Pump Station Rehabilitation and Replacement**

CSA CSA Outcome Department Location Council Districts Appropriation	Environmental and Utility Services Reliable Utility Infrastructure Public Works City-wide City-wide A5150	Initial Start Date Initial End Date Revised Start Date Revised End Date Initial Project Budget	Ongoing Ongoing				
Description	This allocation funds the rehabilitation, reconstruction, or replacement of a maintenance.	ging pump stations that re	equire high levels of				
Justification	Rehabilitating, redesigning, and/or replacing aging pump stations will achieve cost savings, optimize pump station performance, and enhance the efficiency of the storm system.						
Notes	Project schedule dates and selected budget information are not provided of	lue to the ongoing nature	of this project.				
Major Cost Changes							

	FY17 EST	FY18	FY19	FY20	FY21	FY22	5 YEAR TOTAL
	_0.	Expenditure	Schedule (0	00s)			
General Administration Project Feasibility	376						
Development	3	3	3	3	3	3	15
Design	68	50	50	50	50	50	250
Bid & Award	3	3	3	3	3	3	15
Construction	953	944	244	244	194	194	1,820
Maintenance, Repairs, Other	0						
Total	1,403	1,000	300	300	250	250	2,100

Funding Source Schedule (000s)								
Storm Sewer Capital Fund	1,403	1,000	300	300	250	250	2,100	
Total	1,403	1,000	300	300	250	250	2,100	

#### Annual Operating Budget Impact (000s)

2018-2022 Proposed Capital Improvement Program

# **Detail of Ongoing Construction Projects**

# **Storm Sewer Improvements**

CSA CSA Outcome Department Location Council Districts Appropriation	Environmental and Utility Services Reliable Utility Infrastructure Public Works City-wide City-wide A4483	Initial Start Date Initial End Date Revised Start Date Revised End Date Initial Project Budget	Ongoing Ongoing
Description	This allocation funds minor storm drain projects, such as construction of n		
	from the inlet to the main), and the establishment of flow-lines in various n address these needs as funding permits.	eighborhoods. Resource	s will be allocated to
Justification	This allocation will provide relief for minor drainage problems on neighbor runoff conducted by the system.	nood streets and improve	water quality in the
Notes	Project schedule dates and selected budget information are not provided	due to the ongoing nature	of this project.
Major Cost Changes			

	FY17 EST	FY18	FY19	FY20	FY21	FY22	5 YEAR TOTAL
		Expenditure	Schedule (0	00s)			
General Administration Project Feasibility	111						
Development	20	10	5	5	5	10	35
Design	30	50	20	20	20	40	150
Bid & Award	3	3	3	3	3	6	18
Construction	1,678	437	472	472	472	444	2,297
Maintenance, Repairs, Other							
Total	1,842	500	500	500	500	500	2,500

Funding Source Schedule (000s)								
Storm Sewer Capital Fund	1,842	500	500	500	500	500	2,500	
Total	1,842	500	500	500	500	500	2,500	

#### Annual Operating Budget Impact (000s)

## **Detail of Ongoing Construction Projects**

# **Urgent Flood Prevention and Repair Projects**

CSA	Environmental and Utility Services	Initial Start Date	Ongoing					
CSA Outcome	Reliable Utility Infrastructure	Initial End Date	Ongoing					
Department	Public Works	<b>Revised Start Date</b>						
Location	City-wide	Revised End Date						
<b>Council Districts</b>	City-wide	Initial Project Budget						
Appropriation	A4287							
Description	0 0 1 3	This allocation funds unscheduled engineering and construction projects on an as-needed basis, including participation in cooperative projects with other agencies in support of the City's storm sewer system.						
Justification	These funds provide for unanticipated projects that are necessary to ensu	re public health and safet	у.					
Notes	Project schedule dates and selected budget information are not provided to the 2012-2016 CIP, this allocation was titled "Miscellaneous Projects".	due to the ongoing nature	of this project. Prior					
Major Cost								

Changes

	FY17 EST	FY18	FY19	FY20	FY21	FY22	5 YEAR TOTAL
		Expenditure	Schedule (0	00s)			
General Administration Project Feasibility	478						
Development	7	6	5	5	5	5	26
Design	20	20	10	10	10	10	60
Bid & Award	10	10	5	5	5	5	30
Construction	990	564	380	330	330	330	1,934
Total	1,505	600	400	350	350	350	2,050

Funding Source Schedule (000s)								
Storm Sewer Capital Fund	1,305	300	200	200	200	200	1,100	
Storm Drainage Fee Fund	200	300	200	150	150	150	950	
Total	1,505	600	400	350	350	350	2,050	

#### Annual Operating Budget Impact (000s)

2018-2022 Proposed Capital Improvement Program

**Detail of One-Time Non-Construction Projects** 

### **Charcot Storm Pump Rental**

CSA	Environmental and Utility Services
CSA Outcome	Reliable Utility Infrastructure
Department	Public Works
<b>Council Districts</b>	4
Appropriation	A6580

**Description** This project allocates funding for the rental of temporary storm pump equipment and permit fees from the Santa Clara Valley Water District (SCVWD), the owner of the property off of Charcot Avenue near Coyote Creek. Currently, the City maintains a two-year permit to use the SCVWD site.

#### Notes

	PRIOR YEARS	FY17 EST	FY18	FY19	FY20	FY21	FY22	5 YEAR TOTAL	BEYOND 5 YEARS	PROJECT TOTAL
Expenditure Schedule (000s)										
Equipment, Materials and Suppl	ies	300	300	300	300	300	300	1,500		1,800
Maintenance, Repairs, Other	248									248
Total	248	300	300	300	300	300	300	1,500		2,048

Funding Source Schedule (000s)									
Storm Sewer Capital Fund	248	300	300	300	300	300	300	1,500	2,048
Total	248	300	300	300	300	300	300	1,500	2,048

2018-2022 Proposed Capital Improvement Program

# **Detail of Ongoing Non-Construction Projects**

# **Fee Administration - Storm Sewer**

CSA	Environmental and Utility Servi	ces							
CSA Outcome	Reliable Utility Infrastructure								
Department	Public Works								
Council Districts	s N/A								
Appropriation	A5411								
Description	This allocation provides funding Drainage Fees.	his allocation provides funding for the Department of Public Works Development Program to collect Storm Drainage Fees.							
Notes	Selected budget information is	not provided due	e to the ongoing	nature of this p	roject.				
	FY17 EST	FY18	FY19	FY20	FY21	FY22	5 YEAR TOTAL		
		Expenditure	e Schedule (0	00s)					
General Administ	ration 25	25	25	25	25	25	125		

	Fu	unding Sourc	e Schedule (l	)00s)			
Storm Drainage Fee Fund	25	25	25	25	25	25	125
Total	25	25	25	25	25	25	125

25

25

25

25

125

25

25

<u>Design</u> Total

2018-2022 Proposed Capital Improvement Program

# **Detail of Ongoing Non-Construction Projects**

# **Flow Monitoring Program**

CSA	Environmental and Utility Servio	265					
CSA Outcome	Reliable Utility Infrastructure						
Department	Public Works						
Council Districts	City-wide						
Appropriation	A5867						
Description	This allocation funds the installa storm drains and precipitation a flow/rainfall relationship in the h study.	it strategic locati	ons. The data a	and information	are used to cal	ibrate and valio	date the
Notes	Selected budget information is	not provided due	e to the ongoing	nature of this p	roject.		
	FY17 EST	FY18	FY19	FY20	FY21	FY22	5 YEAR TOTAL
		Expenditure	e Schedule (0	00s)			
Project Feasibility Development	350	350	300	250	250	250	1,400

Design	13						
Total	363	350	300	250	250	250	1,400

Funding Source Schedule (000s)							
Storm Sewer Capital Fund	363	350	300	250	250	250	1,400
Total	363	350	300	250	250	250	1,400

### **Detail of Ongoing Non-Construction Projects**

### **Permit Review and Inspection for Outside Agencies - Storm Sewer**

CSA	Environmental and Utility Services
Department	Public Works
<b>Council Districts</b>	City-wide
Appropriation	A7075

**Description** This allocation funds the review and inspection of Santa Clara Valley Water District (SCVWD) projects. The City and the SCVWD do not charge one another for these services.

#### **Notes** Selected budget information is not provided due to the ongoing nature of this work.

	FY17 EST	FY18	FY19	FY20	FY21	FY22	5 YEAR TOTAL
Expenditure Schedule (000s)							
General Administration	50	50	50	50	50	50	250
Total	50	50	50	50	50	50	250

Funding Source Schedule (000s)							
Storm Sewer Capital Fund	50	50	50	50	50	50	250
Total	50	50	50	50	50	50	250

2018-2022 Proposed Capital Improvement Program

# **Detail of Ongoing Non-Construction Projects**

# **Preliminary Engineering - Storm Sewer**

CSA	Environmental and Utility Servio	nvironmental and Utility Services						
CSA Outcome	Reliable Utility Infrastructure							
Department	Public Works							
<b>Council Districts</b>	City-wide							
Appropriation	A400P							
Description	This allocation supports prelimi effects of projects not yet funde			eys and evaluat	ions, that evalu	ates the poten	tial	
Notes	Selected budget information is	not provided due	e to the ongoing	nature of this p	roject.			
	5747	5)(40	51/40	E)/00	5704	5)/00		
	FY17	FY18	FY19	FY20	FY21	FY22	5 YEAR	
	EST						TOTAL	
		Expenditure	Schedule (0	00s)				

Design	180	180	180	180	180	180	900
Total	180	180	180	180	180	180	900

Funding Source Schedule (000s)							
Storm Sewer Capital Fund	180	180	180	180	180	180	900
Total	180	180	180	180	180	180	900

2018-2022 Proposed Capital Improvement Program

## **Detail of Ongoing Non-Construction Projects**

### **Program Management - Storm Sewer**

CSA CSA Outcome	Environmental and Utility Services Reliable Utility Infrastructure
Department	Public Works
Council Districts	•
Appropriation	A400Q
Description	This allocation funds the administration and management of this Capital Improvement Program.
Notes	Selected budget information is not provided due to the ongoing nature of this project.

	FY17	FY18	FY19	FY20	FY21	FY22	5 YEAR
	EST						TOTAL
		Expenditure	Schedule (0	00s)			
General Administration	150	150	150	150	150	150	750
Total	150	150	150	150	150	150	750

#### Funding Source Schedule (000s)

Sewer Service and Use Charge Capital Improvement Fund

Sanitary Sewer Connection Fee Fund

Storm Sewer Capital Fund	150	150	150	150	150	150	750
Total	150	150	150	150	150	150	750

2018-2022 Proposed Capital Improvement Program

#### **Detail of Ongoing Non-Construction Projects**

### **Storm Sewer Master Plan - City-wide**

CSA	Environmental and Utility Services
CSA Outcome	Reliable Utility Infrastructure
Department	Public Works
<b>Council Districts</b>	City-wide
Appropriation	A5252

**Description** This allocation funds a master planning effort for the storm sewer system, which involves mapping and identification of existing main storm drainage trunk lines, outfalls, laterals, and other storm system facilities. The report is anticipated to be completed in 2017 and will guide the overall system design for capacity needs. Ongoing funding will provide for updates to the master plan as new developments and projects add or change the infrastructure.

#### **Notes** Selected budget information is not provided due to the ongoing nature of this project.

	FY17 EST	FY18	FY19	FY20	FY21	FY22	5 YEAR TOTAL
Expenditure Schedule (000s)							
Project Feasibility Development	1,100	1,100	1,100	1,100	1,100		4,400
Design	1,018					1,100	1,100
Total	2,118	1,100	1,100	1,100	1,100	1,100	5,500

Funding Source Schedule (000s)							
Storm Sewer Capital Fund	2,118	1,100	1,100	1,100	1,100	1,100	5,500
Storm Drainage Fee Fund							
Total	2,118	1,100	1,100	1,100	1,100	1,100	5,500

# <u>Storm Sewer Capital Program</u>

2018-2022 Proposed Capital Improvement Program

# Summary of Projects with Close-Out Costs Only in 2017-2018

Project Name 5-Yr CIP Budget	Chynoweth Avenue Green Street \$ 112,000	Initial Start Date Initial End Date	3rd Qtr. 2014 2nd Qtr. 2017
Total Budget	\$ 2,749,181	<b>Revised Start Date</b>	
<b>Council Districts</b>	10	<b>Revised End Date</b>	2nd Qtr. 2018
Description	This project will create bioretention areas and install permeable p treatment requirements set forth by the Municipal Regional Perm		
Project Name	Park Avenue Green Street Pilot	Initial Start Date	2nd Qtr. 2013
Project Name 5-Yr CIP Budget	Park Avenue Green Street Pilot \$ 38,000	Initial Start Date Initial End Date	2nd Qtr. 2013 2nd Qtr. 2014
•			
5-Yr CIP Budget	\$ 38,000	Initial End Date	2nd Qtr. 2014

# **Storm Sewer Capital Program** 2018-2022 Proposed Capital Improvement Program

# Summary of Reserves

Project Name	Alviso Storm Pump Station Reserve	Initial Start Date	N/A	
5-Yr CIP Budget	\$ 1,200,000	Initial End Date	N/A	
Total Budget	\$ 1,200,000	<b>Revised Start Date</b>		
<b>Council Districts</b>	4	Revised End Date		
Description	This reserve sets aside additional funding for the construction of the Alviso Storm Pump Station. This pump station is needed to alleviate flooding in Alviso. The estimate for this project's construction is approximately \$9.7 million; however, due to recent increased costs in construction, this reserve will be used to help support any additional funding needs.			