




2015-2016 CAPITAL BUDGET

2016-2020 CAPITAL IMPROVEMENT PROGRAM

STORM
SEWER SYSTEM

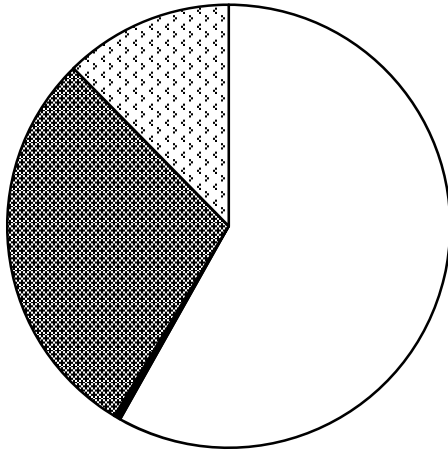


STORM
SEWER SYSTEM

STORM SEWER SYSTEM

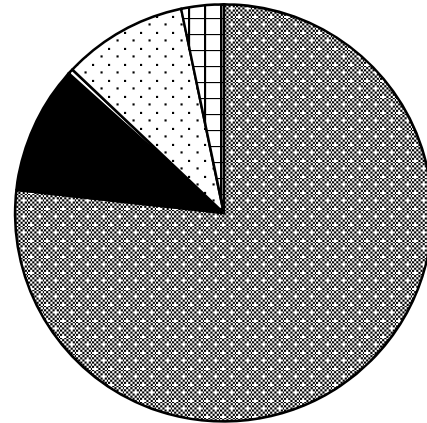
2016-2020 Capital Improvement Program

**2015-2016 Adopted
Source of Funds**



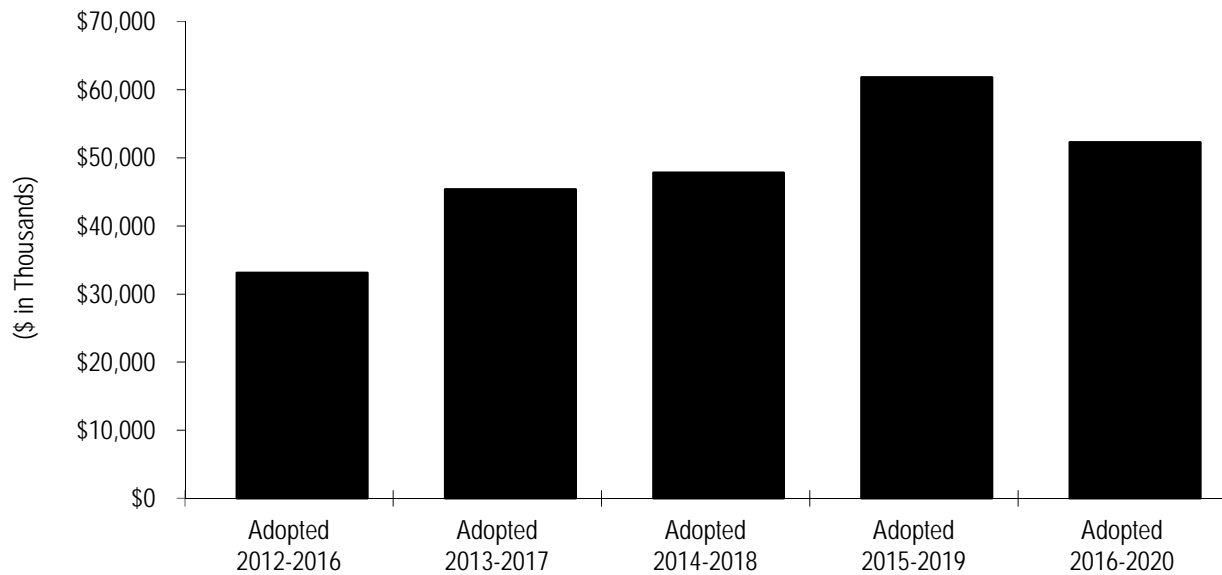
- Beginning Fund Balance
- Taxes, Fees, and Charges
- ▨ Loans and Transfers
- Interest and Miscellaneous

**2015-2016 Adopted
Use of Funds**



- ▨ Construction
- Non-Construction
- Loans and Transfers
- Reserves
- ▨ Ending Fund Balance

CIP History



PAGE IS INTENTIONALLY LEFT BLANK

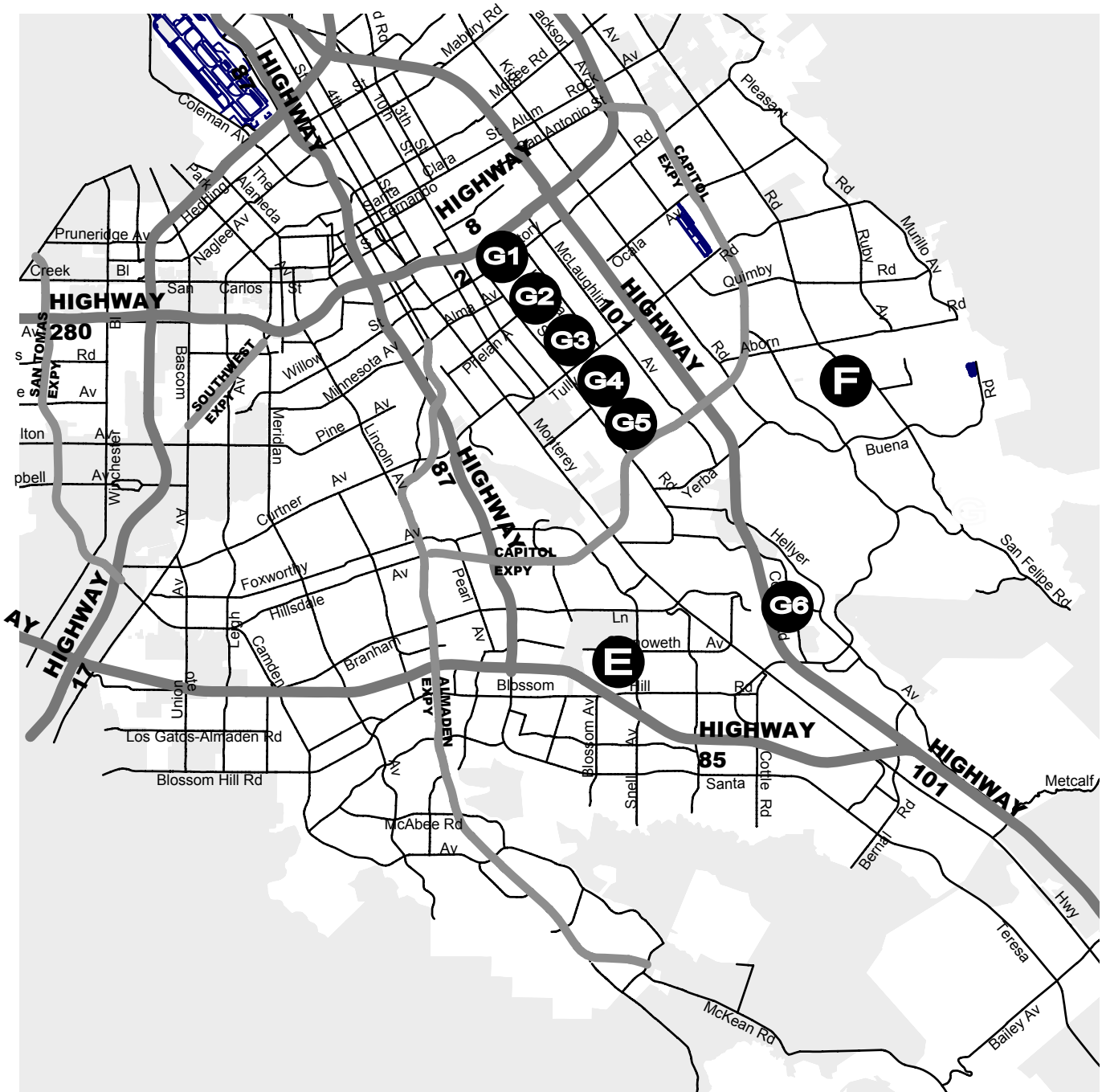
PAGE IS INTENTIONALLY LEFT BLANK

Storm Sewer System

2016-2020 Adopted Capital Improvement Program

South

- E)** Chynoweth Ave. Green Street
- F)** Citywide Outfall Rehabilitation
- G)** Large Trash Capture Devices (1, 2, 3, 4, 5, 6)



PAGE IS INTENTIONALLY LEFT BLANK

Storm Sewer System

2016-2020 Adopted Capital Improvement Program

Overview

INTRODUCTION

The Storm Sewer System of the City of San José consists of approximately 1,130 miles of sewer mains and 29 stormwater pump stations. The Storm Sewer System, which is separate from the Sanitary Sewer System, collects storm water and conveys it to nearby creeks and rivers. Most of the stormwater in San José flows from south to north into the Guadalupe River or Coyote Creek. The City shares responsibility for handling stormwater runoff with the Santa Clara Valley Water District and the U.S. Army Corps of Engineers. 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 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.

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	34,720
NUMBER OF MANHOLES	27,530
NUMBER OF OUTFALLS	1,500
NUMBER OF PUMP STATIONS	29

The 2016-2020 Adopted Capital Improvement Program (CIP) provides funding of \$52.3 million, of which \$31.0 million is allocated in 2015-2016, for master planning and improvements of the Storm Sewer System. 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 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. 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). The General Plan provides a guide for the Storm Sewer Capital Improvement Program to align public storm infrastructure investments with San José's plans for future growth, in addition to identifying capacity constraints in the existing system. Projects addressing localized ponding and flooding are generally identified through inspection and maintenance activities.

The Adopted CIP is structured to balance the master planning effort with construction projects that address known areas of ponding and flooding. The 2016-2020 Adopted CIP allocates \$6.7 million to the master planning effort and flow monitoring activities and \$37.9 million to construction projects.

Storm Sewer System

2016-2020 Adopted Capital Improvement Program

Overview

SOURCES OF FUNDING

The primary funding sources for the 2016-2020 Adopted Storm Sewer System CIP are transfers from the Storm Sewer Operating Fund, California Proposition 84 Grants, and Storm Sewer Connection Fees. Among these revenues, the Storm Sewer Operating Fund transfer continues to be the largest funding source for the program.

The transfers in the 2016-2020 Adopted CIP from the Storm Sewer Operating Fund (\$28.0 million) reflect a decrease of \$11.9 million (29.9%) compared to the \$39.9 million transfer programmed in the 2015-2019 Adopted CIP. The

2016-2020 Adopted CIP assumes that no rate increase will be needed for the Storm Sewer Operating Fund for 2015-2016. However, this will be reassessed in the CIP out-years upon completion of the initial recommendations from the Storm Sewer Master Plan, as described in further detail in the Program Highlights section.

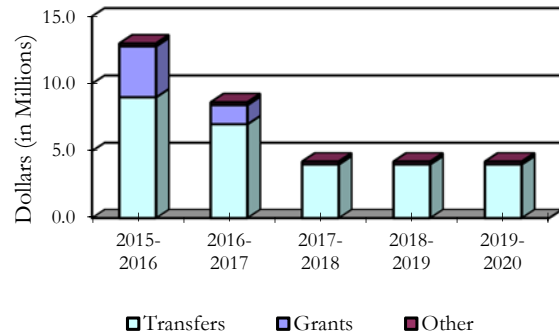
The Adopted CIP includes the California Proposition 84 Stormwater Grant and Integrated Regional Water Management Program Grant in the total amount of \$5.2 million in the 2016-2020 Adopted CIP. The grants will fund the design and construction of the Park Avenue Green Street Pilot, Ocala Avenue Green Street, 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. These activities are projected to remain consistent at \$750,000 in the 2016-2020 Adopted CIP.

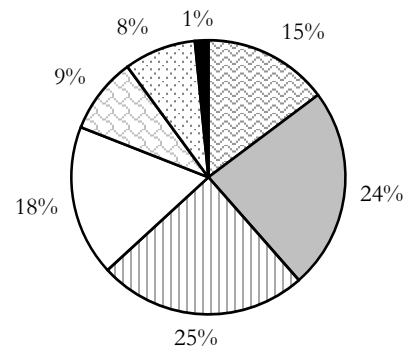
PROGRAM HIGHLIGHTS

Projects in this Adopted 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.

Summary of Revenues



2016-2020 Storm Sewer Expenditures
\$52.3 million



- Master Planning
- Area Flooding Projects
- Storm Quality Improvement Projects
- Local Flooding/Urgent Flood Prevention and Repair Projects
- Rehabilitation Projects
- Other
- Ending Fund Balance

Storm Sewer System

2016-2020 Adopted Capital Improvement Program

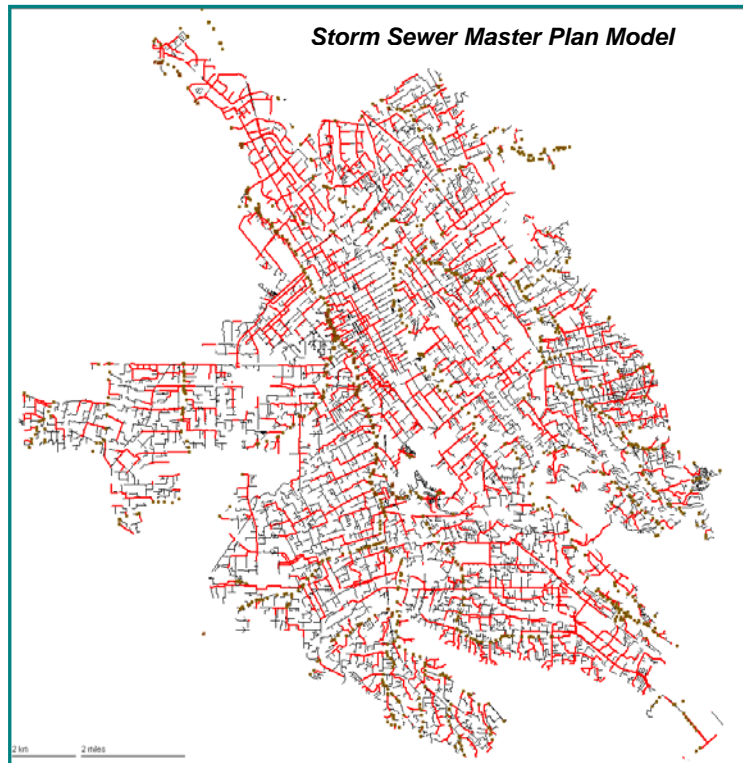
Overview

PROGRAM HIGHLIGHTS

Storm Sewer Master Plan

The Storm Sewer Master Plan is a comprehensive effort to identify and prioritize needed capacity-related 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 used as the framework for development of future Storm CIPs. A majority of the existing storm sewer system can only effectively convey the storm run-off from a one to a three-year storm event. The improvements recommended by the master plan will be designed to convey storm run-off for a 10-year storm event. Designing for a 10-year storm event is commonly used in the area as the standard to adequately provide flood protection.

The city-wide storm sewer master plan study using the fully dynamic, integrated urban and river catchments modeling platform began in 2013-2014. The master plan study is anticipated to be completed in 2017 with a total allocation of \$6.7 million in the 2016-2020 Adopted CIP, which includes \$4.5 million for the master plan and \$2.2 million for flow monitoring activities. Additionally, a \$1.0 million reserve has been programmed in the 2016-2020 Adopted CIP for future city-wide storm sewer projects. A key component contributing to the accuracy of the master plan is evaluation and confirmation of the system performance during rain events. This confirmation is accomplished through the flow monitoring program that installs flow metering equipment at strategic locations throughout the system to capture actual flow data during rain events. Once the master plan study is completed, staff will develop an external financing strategy to help mitigate rate increases as a result of any project funding shortfalls.



Funding of approximately \$37.9 million is programmed in this Adopted CIP for the design and construction of projects, the majority of which are grouped into the categories below.

Storm Sewer System

2016-2020 Adopted Capital Improvement Program

Overview

PROGRAM HIGHLIGHTS

Area Flooding and Drainage

Area Flooding 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. Funding of approximately \$12.4 million is allocated in this Adopted CIP for area-wide projects. The projects in this category include the Alviso Storm Pump Station (\$9.3 million), Alviso Storm Network Infiltration Control (\$592,000), and Charcot Storm Pump Station at Coyote Creek (\$500,000 allocated in 2015-2016 to address immediate improvements and \$2.0 million held in reserve for future needs).

The amount of additional funding will be refined based on the recommendations in the North San José Storm Drain Master Plan, which will provide additional guidance as to the scope of the piping upgrades. This plan was incorporated into the city-wide Storm Sewer Master Plan in 2012-2013, and is anticipated to be completed in 2017.

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.

Provision C.3 of the MRP stated a requirement for the development of ten Green Street Pilot Projects within the San Francisco Bay Region, with a minimum of two green street projects within Santa Clara County. In an effort to support compliance with the MRP and facilitate future development in San José by creating treatment “credits”, the City has secured grant funding for four green street retrofit pilot projects: Martha Gardens Green Alley, Park Avenue Green Street Pilot, Ocala Avenue Green Street Project, and Chynoweth Avenue Green Street.

Storm Sewer System

2016-2020 Adopted Capital Improvement Program

Overview

PROGRAM HIGHLIGHTS

Stormwater Quality Improvement Projects (Cont'd.)

Green elements included in these projects consist of bioretention areas, or “rain gardens” that function as a soil and plant-based filtration measure, and pervious pavers and infiltration trenches which will allow stormwater run-off to infiltrate into the ground. Total costs of the projects in the 2016-2020 CIP are approximately \$5.0 million, sourced by approximately \$4.2 million in grant funding and approximately \$800,000 in matching funds. Construction of the Martha Gardens Green Alley project (\$343,000) is scheduled to be completed in 2015-2016, Park Avenue Green Street Pilot project (\$1.0 million) and Chynoweth Avenue Green Street project (\$2.0 million) to begin in 2015-2016, and Ocala Avenue Green Street project (\$1.7 million) to begin in 2016-2017.

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 \$7.9 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.



Clean-Out of a Continuous Deflective Separation unit installed in the Selma Olinder neighborhood

Rehabilitation of Existing Facilities

The primary focus of rehabilitation projects is to address aging mechanical components at pump stations and outfall structures. These components are either operating inefficiently or reaching the industry standard for useful life. Funding of approximately \$4.7 million is programmed for rehabilitation projects, which include Outfall Rehabilitation – Capital (\$3.0 million) and Storm Pump Station Rehabilitation and Replacement (\$1.7 million).

Local Flooding/Urgent Flood Prevention and Repair

Localized ponding and flooding projects can be addressed by installing new and/or relocated storm inlets, 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 \$5.8 million is programmed for rehabilitation projects, which include Minor Neighborhood Storm Sewer Improvements (\$3.6 million) and Storm Sewer Improvements - Special Corridors (\$2.2 million).

Storm Sewer System

2016-2020 Adopted Capital Improvement Program
Overview

PROGRAM HIGHLIGHTS

Local Flooding/Urgent Flood Prevention and Repair (Cont'd.)

Funding of approximately \$3.5 million for Urgent Flood Prevention and Repair Projects will be used to address issues which may fall into any of the above categories. These projects are developed in the course of the year in response to urgent needs.

MAJOR CHANGES FROM THE 2015-2019 ADOPTED CIP

Major changes from the 2015-2019 Adopted CIP are summarized below:

- A total reduction of \$11.9 million in revenue from the Storm Sewer Operating Fund (total funding of \$9.0 million in 2015-2016, \$7.0 million in 2016-2017, and \$4.0 million annually in 2017-2020), due primarily to the elimination of one-time project funds and the reprogramming of CIP project schedules;
- Funding in the amount of \$2.0 million for a Charcot Storm Pump Station Reserve for future funding needed to eliminate flooding and damage to property within the area bounded by Highway 101/North First Street/Highway 880 and Charcot Road;
- Liquidation of \$9.0 million in funding from the Alviso Storm Pump Station Reserve to fund the Alviso Storm Pump Station project;
- Reduction of \$600,000 from the Almaden-Canoas Storm Sewer Improvements project, based upon an evaluation which concluded that no further improvements were required; and
- Funding in the amount of \$1.0 million for a Storm Sewer Master Plan Reserve for future projects identified by the Storm Sewer Master Plan.

OPERATING BUDGET IMPACT

The Department of Transportation maintains the City's Storm Sewer System. There are no additional operating and maintenance costs associated with the projects in the 2016-2020 Adopted CIP.

COUNCIL-APPROVED REVISIONS TO THE PROPOSED CAPITAL IMPROVEMENT PROGRAM

The City Council approved the rebudgeting of \$1.1 million for four projects: Minor Neighborhood Storm Sewer Improvements (\$500,000), Martha Gardens Green Alley (\$300,000), Public Art (\$274,000), and Alviso Storm Network Infiltration Control (\$35,000).

2015-2016 CAPITAL BUDGET

2016-2020 CAPITAL IMPROVEMENT PROGRAM

STORM SEWER SYSTEM

SOURCE OF FUNDS

USE OF FUNDS

SOURCE AND USE OF FUNDS STATEMENTS

2015-2016 USE OF FUNDS BY FUNDING SOURCE

The Source of Funds displays the capital revenues by funding source for each year of the Five-Year Capital Improvement Program. The Use of Funds displays the capital expenditures by line-item for each year of the five-year period. The Source and Use of Funds Statements display major categories of capital revenues and expenditures for each year over the five-year period. The 2015-2016 Use of Funds by Funding Source displays the funding sources for the capital expenditures that are budgeted in 2015-2016.

Storm Sewer System
2016-2020 Adopted Capital Improvement Program
Source of Funds (Combined)

SOURCE OF FUNDS	Estimated 2014-2015	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	5-Year Total
<u>Storm Drainage Fee Fund (413)</u>							
Beginning Fund Balance	316,740	294,175	201,175	103,175	105,175	107,175	294,175 *
Revenue from Other Agencies:							
<u>Other Agencies</u>							
– Joint Participation with the City of Cupertino	4,000	4,000	4,000	4,000	4,000	4,000	20,000
<u>Taxes, Fees and Charges:</u>							
<u>Storm Drainage Fees</u>	225,000	150,000	150,000	150,000	150,000	150,000	750,000
Interest Income	3,000	2,000	2,000	2,000	2,000	2,000	10,000
Reserve for Encumbrances	173,435						
Total Storm Drainage Fee Fund	722,175	450,175	357,175	259,175	261,175	263,175	1,074,175 *
<u>Storm Sewer Capital Fund (469)</u>							
Beginning Fund Balance	21,939,669	17,753,491	815,491	575,491	665,491	743,491	17,753,491 *
Revenue from Other Agencies:							
<u>State Government</u>							
– CA Proposition 84 Integrated Regional Water Management Program Grant	42,000	1,500,000	458,000				1,958,000
– California Proposition 84 Stormwater Grant		2,275,000	957,000				3,232,000
<u>Contributions, Loans and Transfers from:</u>							
<u>Special Funds</u>							
– Transfer from Storm Sewer Operating Fund (446)	11,930,000	9,000,000	7,000,000	4,000,000	4,000,000	4,000,000	28,000,000
Interest Income	70,000	54,000	54,000	54,000	54,000	54,000	270,000
Reserve for Encumbrances	1,909,822						
Total Storm Sewer Capital Fund	35,891,491	30,582,491	9,284,491	4,629,491	4,719,491	4,797,491	51,213,491 *

Storm Sewer System
 2016-2020 Adopted Capital Improvement Program
 Source of Funds (Combined)

SOURCE OF FUNDS (CONT'D.)	Estimated 2014-2015	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	5-Year Total
TOTAL SOURCE OF FUNDS	36,613,666	31,032,666	9,641,666	4,888,666	4,980,666	5,060,666	52,287,666 *

* The 2016-2017 through 2019-2020 Beginning Balances are excluded from the FIVE-YEAR TOTAL SOURCE OF FUNDS to avoid multiple counting of the same funds.

Storm Sewer System
2016-2020 Adopted Capital Improvement Program
 Use of Funds (Combined)

USE OF FUNDS	Estimated 2014-2015	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	5-Year Total
Construction Projects							
Lower Bird Avenue Storm Sewer Improvements	30,000						
Madrona Avenue Storm Sewer Improvements	10,000						
Public Art	23,000	468,000	61,000	14,000	14,000	15,000	572,000
Upper Bird Avenue Storm Sewer Improvements	50,000						
1. Alviso Storm Network Infiltration Control	10,000	192,000	100,000	100,000	100,000	100,000	592,000
2. Alviso Storm Pump Station	1,294,000	9,329,000					9,329,000
3. Charcot Storm Pump Station at Coyote Creek	1,000,000	500,000					500,000
4. Chynoweth Avenue Green Street	195,000	1,508,000	481,000				1,989,000
5. Large Trash Capture Devices	3,628,000	4,852,000	3,000,000				7,852,000
6. Martha Gardens Green Alley	1,106,000	343,000					343,000
7. Minor Neighborhood Storm Sewer Improvements	1,184,000	1,500,000	600,000	500,000	500,000	500,000	3,600,000
8. Ocala Avenue Green Street Project	130,000	631,000	1,070,000				1,701,000
9. Outfall Rehabilitation - Capital	1,125,000	1,000,000	500,000	500,000	500,000	500,000	3,000,000
10. Park Avenue Green Street Pilot	206,000	1,000,000					1,000,000
11. Storm Pump Station Rehabilitation and Replacement	690,000	500,000	300,000	300,000	300,000	300,000	1,700,000
12. Storm Sewer Improvements - Special Corridors	472,000	1,000,000	300,000	300,000	300,000	300,000	2,200,000
13. Urgent Flood Prevention and Repair Projects	1,736,000	1,000,000	600,000	600,000	600,000	700,000	3,500,000
Total Construction Projects	12,889,000	23,823,000	7,012,000	2,314,000	2,314,000	2,415,000	37,878,000

Storm Sewer System
2016-2020 Adopted Capital Improvement Program
 Use of Funds (Combined)

811 - V

USE OF FUNDS (CONT'D.)	Estimated 2014-2015	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	5-Year Total
Non-Construction							
General Non-Construction							
Capital Program and Public Works Department Support Service Costs	570,000	545,000	283,000	152,000	154,000	156,000	1,290,000
Infrastructure Management System	17,000	8,000	8,000	8,000	8,000	8,000	40,000
Storm Sewer Fee Study	7,000	10,000	10,000	10,000	10,000	10,000	50,000
14. Fee Administration	25,000	25,000	30,000	30,000	30,000	30,000	145,000
15. Flow Monitoring Program	933,000	1,154,000	254,000	254,000	254,000	254,000	2,170,000
16. Permit Review and Inspection for Outside Agencies	50,000	50,000	25,000	25,000	25,000	25,000	150,000
17. Preliminary Engineering	185,000	180,000	180,000	160,000	160,000	160,000	840,000
18. Program Management	150,000	150,000	150,000	150,000	150,000	150,000	750,000
19. Storm Sewer Master Plan - City-wide	3,616,000	950,000	900,000	900,000	900,000	900,000	4,550,000
Total General Non-Construction	5,553,000	3,072,000	1,840,000	1,689,000	1,691,000	1,693,000	9,985,000
Contributions, Loans and Transfers to General Fund							
Transfer to the General Fund - Human Resources/Payroll/Budget Systems Upgrade	3,000	14,000					14,000
Transfer to the General Fund - Interest Earnings	3,000	2,000	2,000	2,000	2,000	2,000	10,000
Total Contributions, Loans and Transfers to General Fund	6,000	16,000	2,000	2,000	2,000	2,000	24,000

Storm Sewer System
 2016-2020 Adopted Capital Improvement Program
 Use of Funds (Combined)

USE OF FUNDS (CONT'D.)	Estimated 2014-2015	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	5-Year Total
Non-Construction							
Contributions, Loans and Transfers to Special Funds							
Transfer to the City Hall Debt Service Fund	118,000	105,000	109,000	113,000	123,000	123,000	573,000
Total Contributions, Loans and Transfers to Special Funds	118,000	105,000	109,000	113,000	123,000	123,000	573,000
Reserves							
Charcot Storm Pump Station Reserve		2,000,000					2,000,000
Storm Sewer Master Plan Reserve		1,000,000					1,000,000
Total Reserves		3,000,000					3,000,000
Total Non-Construction	5,677,000	6,193,000	1,951,000	1,804,000	1,816,000	1,818,000	13,582,000
Ending Fund Balance	18,047,666	1,016,666	678,666	770,666	850,666	827,666	827,666*
TOTAL USE OF FUNDS	36,613,666	31,032,666	9,641,666	4,888,666	4,980,666	5,060,666	52,287,666*

* The 2015-2016 through 2018-2019 Ending Balances are excluded from the FIVE-YEAR TOTAL USE OF FUNDS to avoid multiple counting of the same funds.

Storm Sewer System
2016-2020 Adopted Capital Improvement Program
Storm Drainage Fee Fund (413)

Statement of Source and Use of Funds

	Estimated 2014-2015	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	5-Year Total
<u>SOURCE OF FUNDS</u>							
Beginning Fund Balance *	316,740	294,175	201,175	103,175	105,175	107,175	294,175
Interest Income	3,000	2,000	2,000	2,000	2,000	2,000	10,000
Reserve for Encumbrances	173,435						
Revenue from Other Agencies	4,000	4,000	4,000	4,000	4,000	4,000	20,000
Taxes, Fees and Charges	225,000	150,000	150,000	150,000	150,000	150,000	750,000
TOTAL SOURCE OF FUNDS	722,175	450,175	357,175	259,175	261,175	263,175	1,074,175
<u>USE OF FUNDS</u>							
Construction Projects	66,000	100,000	100,000	100,000	100,000	100,000	500,000
Contributions, Loans and Transfers	4,000	3,000	3,000	3,000	3,000	3,000	15,000
Non-Construction	358,000	146,000	151,000	51,000	51,000	51,000	450,000
Reserves							
Ending Fund Balance **	294,175	201,175	103,175	105,175	107,175	109,175	109,175
TOTAL USE OF FUNDS	722,175	450,175	357,175	259,175	261,175	263,175	1,074,175

* The 2016-2017 through 2019-2020 Beginning Fund Balances are excluded from the FIVE-YEAR TOTAL SOURCE OF FUNDS to avoid multiple counting of the same funds.

** The 2015-2016 through 2018-2019 Ending Fund Balances are excluded from the FIVE-YEAR TOTAL USE OF FUNDS to avoid multiple counting of the same funds.

Storm Sewer System
2016-2020 Adopted Capital Improvement Program
Storm Sewer Capital Fund (469)

Statement of Source and Use of Funds

	<u>Estimated 2014-2015</u>	<u>2015-2016</u>	<u>2016-2017</u>	<u>2017-2018</u>	<u>2018-2019</u>	<u>2019-2020</u>	<u>5-Year Total</u>
<u>SOURCE OF FUNDS</u>							
Beginning Fund Balance *	21,939,669	17,753,491	815,491	575,491	665,491	743,491	17,753,491
Contributions, Loans and Transfers	11,930,000	9,000,000	7,000,000	4,000,000	4,000,000	4,000,000	28,000,000
Interest Income	70,000	54,000	54,000	54,000	54,000	54,000	270,000
Reserve for Encumbrances	1,909,822						
Revenue from Other Agencies	42,000	3,775,000	1,415,000				5,190,000
TOTAL SOURCE OF FUNDS	<u>35,891,491</u>	<u>30,582,491</u>	<u>9,284,491</u>	<u>4,629,491</u>	<u>4,719,491</u>	<u>4,797,491</u>	<u>51,213,491</u>
<u>USE OF FUNDS</u>							
Construction Projects	12,823,000	23,723,000	6,912,000	2,214,000	2,214,000	2,315,000	37,378,000
Contributions, Loans and Transfers	120,000	118,000	108,000	112,000	122,000	122,000	582,000
Non-Construction	5,195,000	2,926,000	1,689,000	1,638,000	1,640,000	1,642,000	9,535,000
Reserves		3,000,000					3,000,000
Ending Fund Balance **	17,753,491	815,491	575,491	665,491	743,491	718,491	718,491
TOTAL USE OF FUNDS	<u>35,891,491</u>	<u>30,582,491</u>	<u>9,284,491</u>	<u>4,629,491</u>	<u>4,719,491</u>	<u>4,797,491</u>	<u>51,213,491</u>

* The 2016-2017 through 2019-2020 Beginning Fund Balances are excluded from the FIVE-YEAR TOTAL SOURCE OF FUNDS to avoid multiple counting of the same funds.

** The 2015-2016 through 2018-2019 Ending Fund Balances are excluded from the FIVE-YEAR TOTAL USE OF FUNDS to avoid multiple counting of the same funds.

Storm Sewer System
2016-2020 Adopted Capital Improvement Program
2015-2016 Use of Funds by Funding Source

	(413) Storm Drainage Fee Fund	(469) Storm Sewer Capital Fund	Total
TOTAL RESOURCES	450,175	30,582,491	31,032,666
<u>Construction Projects</u>			
Public Art		468,000	468,000
1. Alviso Storm Network Infiltration Control		192,000	192,000
2. Alviso Storm Pump Station		9,329,000	9,329,000
3. Charcot Storm Pump Station at Coyote Creek		500,000	500,000
4. Chynoweth Avenue Green Street		1,508,000	1,508,000
5. Large Trash Capture Devices		4,852,000	4,852,000
6. Martha Gardens Green Alley		343,000	343,000
7. Minor Neighborhood Storm Sewer Improvements		1,500,000	1,500,000
8. Ocala Avenue Green Street Project		631,000	631,000
9. Outfall Rehabilitation - Capital		1,000,000	1,000,000
10. Park Avenue Green Street Pilot		1,000,000	1,000,000
11. Storm Pump Station Rehabilitation and Replacement		500,000	500,000
12. Storm Sewer Improvements - Special Corridors		1,000,000	1,000,000
13. Urgent Flood Prevention and Repair Projects	100,000	900,000	1,000,000
<u>Total Construction Projects</u>	100,000	23,723,000	23,823,000

Storm Sewer System
2016-2020 Adopted Capital Improvement Program
2015-2016 Use of Funds by Funding Source

	(413) Storm Drainage Fee Fund	(469) Storm Sewer Capital Fund	Total
<u>Non-Construction</u>			
General Non-Construction			
Capital Program and Public Works Department Support Service Costs Infrastructure Management System	21,000	524,000	545,000
Storm Sewer Fee Study		8,000	8,000
		10,000	10,000
14. Fee Administration	25,000		25,000
15. Flow Monitoring Program		1,154,000	1,154,000
16. Permit Review and Inspection for Outside Agencies		50,000	50,000
17. Preliminary Engineering		180,000	180,000
18. Program Management		150,000	150,000
19. Storm Sewer Master Plan - City-wide	100,000	850,000	950,000
Total General Non-Construction	146,000	2,926,000	3,072,000
Contributions, Loans and Transfers to General Fund			
Transfer to the General Fund - Human Resources/Payroll/ Budget Systems Upgrade		14,000	14,000
Transfer to the General Fund - Interest Earnings	2,000		2,000
Total Contributions, Loans and Transfers to General Fund	2,000	14,000	16,000

Storm Sewer System
2016-2020 Adopted Capital Improvement Program
2015-2016 Use of Funds by Funding Source

	(413) Storm Drainage Fee Fund	(469) Storm Sewer Capital Fund	Total
<u>Non-Construction</u>			
Contributions, Loans and Transfers to Special Funds			
Transfer to the City Hall Debt Service Fund	1,000	104,000	105,000
Total Contributions, Loans and Transfers to Special Funds	1,000	104,000	105,000
Reserves			
Charcot Storm Pump Station Reserve		2,000,000	2,000,000
Storm Sewer Master Plan Reserve		1,000,000	1,000,000
Total Reserves		3,000,000	3,000,000
<u>Total Non-Construction</u>	149,000	6,044,000	6,193,000
Ending Fund Balance	201,175	815,491	1,016,666
TOTAL USE OF FUNDS	450,175	30,582,491	31,032,666

2015-2016 CAPITAL BUDGET

2016-2020 CAPITAL IMPROVEMENT PROGRAM

STORM SEWER SYSTEM

DETAIL OF CONSTRUCTION PROJECTS

DETAIL OF NON-CONSTRUCTION PROJECTS

The Detail of Construction Projects section provides information on the individual construction projects with funding in 2015-2016. The Detail of Non-Construction Projects section is abbreviated and provides information on the individual non-construction project, with funding in 2015-2016. On the Use of Funds statement, these projects are numbered.

Storm Sewer System

2016-2020 Adopted Capital Improvement Program

Detail of Construction Projects

1. Alviso Storm Network Infiltration Control

CSA:	Environmental and Utility Services	Initial Start Date:	Ongoing
CSA Outcome:	Reliable Utility Infrastructure	Revised Start Date:	
Department:	Public Works	Initial Completion Date:	Ongoing
Council District:	4	Revised Completion Date:	
Location:	Alviso		

Description: This allocation will fund the assessment of groundwater infiltration sources in the Alviso storm sewer network for pipes greater than 27 inches in diameter for ongoing maintenance needs. Any storm sewer pipes identified in need of repair will be performed under this allocation.

Justification: This project will maximize the efficiency of the Alviso storm sewer network. This will extend the life of the existing Gold Street Storm pump station and future Alviso storm pump station, and increase the pipe capacity for actual stormwater runoff.

EXPENDITURE SCHEDULE (000'S)

Cost Elements	Prior Years	2014-15 Appn.	2014-15 Estimate	2015-16	2016-17	2017-18	2018-19	2019-20	5-Year Total	Beyond 5-Year	Project Total
Development					3	3	3	3	12		
Design					15	15	15	15	60		
Bid & Award				9	2	2	2	2	17		
Construction		41	10	177	75	75	75	75	477		
Post Construction		4		6	5	5	5	5	26		
TOTAL		45	10	192	100	100	100	100	592		

FUNDING SOURCE SCHEDULE (000'S)

Storm Sewer Capital Fund	45	10	192	100	100	100	100	100	592		
TOTAL	45	10	192	100	100	100	100	100	592		

ANNUAL OPERATING BUDGET IMPACT (000'S)

None

Major Changes in Project Cost:

N/A

Notes:

In the 2016-2020 CIP, this project changed to an ongoing project due to the ongoing needs for the Alviso area. Project schedule dates and selected budget information are not provided due to the ongoing nature of this project.

FY Initiated:	Ongoing	Appn. #:	7351
Initial Project Budget:		USGBC LEED:	N/A

Storm Sewer System
2016-2020 Adopted Capital Improvement Program
Detail of Construction Projects

2. Alviso Storm Pump Station

CSA:	Environmental and Utility Services	Initial Start Date:	3rd Qtr. 2013
CSA Outcome:	Reliable Utility Infrastructure	Revised Start Date:	
Department:	Public Works	Initial Completion Date:	2nd Qtr. 2014
Council District:	4	Revised Completion Date:	2nd Qtr. 2016
Location:	New pump station will be constructed on the Northwest corner of Gold Street and Catherine Street. A new force main and outfall will be installed along Catherine Street and through the levee into Guadalupe River.		
Description:	This project will build a new 110 cubic feet per second (CFS) storm pump station with approximately 100 linear feet of 48-inch HDPE (High Density Polyethylene) force main. A new outfall structure will be constructed beyond the levee at the Guadalupe River.		
Justification:	This project will provide a storm pump station with a 100-year storm event capacity. The existing Gold Street pump station will remain as additional back up.		

EXPENDITURE SCHEDULE (000'S)

Cost Elements	Prior Years	2014-15 Appn.	2014-15 Estimate	2015-16	2016-17	2017-18	2018-19	2019-20	5-Year Total	Beyond 5-Year	Project Total
Development	17										17
Design	169	1,294	1,294	308					308		1,771
Bid & Award				20					20		20
Construction				8,981					8,981		8,981
Post Construction				20					20		20
TOTAL	186	1,294	1,294	9,329					9,329		10,809

FUNDING SOURCE SCHEDULE (000'S)

Storm Sewer Capital Fund	186	1,294	1,294	9,329					9,329		10,809
TOTAL	186	1,294	1,294	9,329					9,329		10,809

ANNUAL OPERATING BUDGET IMPACT (000'S)

None

Major Changes in Project Cost:

2015-2019 CIP - Increase of \$500,000 due to the inclusion of the "Gold Street Storm Pump Station Force Main" project into this project.

2016-2020 CIP - Increase of \$8.8 million. Funding from the "Alviso Storm Pump Station Reserve" was liquidated for the final design and construction of the project.

Notes:

FY Initiated:	2013-2014	Appn. #:	7623
Initial Project Budget:	\$1,500,000	USGBC LEED:	N/A

Storm Sewer System

2016-2020 Adopted Capital Improvement Program

Detail of Construction Projects

3. Charcot Storm Pump Station at Coyote Creek

CSA:	Environmental and Utility Services	Initial Start Date:	3rd Qtr. 2013
CSA Outcome:	Reliable Utility Infrastructure	Revised Start Date:	3rd Qtr. 2014
Department:	Public Works	Initial Completion Date:	2nd Qtr. 2014
Council District:	4	Revised Completion Date:	2nd Qtr. 2016
Location:	Charcot Avenue at Coyote Creek		

Description: This project allocates funding for a new pump station on Charcot Avenue at Coyote Creek that will have a capacity of approximately 300 cubic feet per second. Current funding will support the design phase of the project. Additional funding will need to be identified for the construction of the pump station, and staff will develop a financing strategy once the Storm Sewer Master Plan is completed.

Justification: This project will provide the necessary storm sewer capacity to protect the area roughly bounded by Highway 101, North First Street, Highway 880, and Charcot Avenue from damage during a 10-year storm event.

EXPENDITURE SCHEDULE (000'S)

Cost Elements	Prior Years	2014-15 Appn.	2014-15 Estimate	2015-16	2016-17	2017-18	2018-19	2019-20	5-Year Total	Beyond 5-Year	Project Total
Development		22	22								22
Property & Land		55	55								55
Design		1,418	923	500					500		1,423
Bid & Award		5									
TOTAL		1,500	1,000	500					500		1,500

FUNDING SOURCE SCHEDULE (000'S)

Storm Sewer Capital Fund		1,500	1,000	500					500		1,500
TOTAL		1,500	1,000	500					500		1,500

ANNUAL OPERATING BUDGET IMPACT (000'S)

None

Major Changes in Project Cost:

None

Notes:

An additional \$2.0 million reserve is also set aside to help fund future construction of the Charcot Storm Pump Station; additional funding will be required for the full construction cost of this project, and at that point the reserve will be liquidated.

FY Initiated:	2013-2014	Appn. #:	7595
Initial Project Budget:	\$1,500,000	USGBC LEED:	N/A

Storm Sewer System

2016-2020 Adopted Capital Improvement Program

Detail of Construction Projects

4. Chynoweth Avenue Green Street

CSA:	Environmental and Utility Services	Initial Start Date:	3rd Qtr. 2014
CSA Outcome:	Reliable Utility Infrastructure	Revised Start Date:	
Department:	Public Works	Initial Completion Date:	2nd Qtr. 2017
Council District:	10	Revised Completion Date:	
Location:	Chynoweth Avenue from Snell Avenue to Avenida Almendros		
Description:	This project will create bioretention areas and install permeable pavers along Chynoweth Avenue to meet stormwater treatment requirements set forth by the Municipal Regional Permit using Low Impact Development (LID) techniques.		
Justification:	This project incorporates stormwater quality treatment using bioretention areas, a LID practice, to capture and treat stormwater. Installation of this type of treatment measure is expected to reduce the pollutants entering our local creeks and waterways from City streets. In addition, this project will allow the Environmental Services Department to monitor the effectiveness of retrofitting an existing urban street with bioretention areas.		

EXPENDITURE SCHEDULE (000'S)

Cost Elements	Prior Years	2014-15 Appn.	2014-15 Estimate	2015-16	2016-17	2017-18	2018-19	2019-20	5-Year Total	Beyond 5-Year	Project Total
Development		100	100								100
Design		95	95	126					126		221
Bid & Award				9					9		9
Construction				1,373	461				1,834		1,834
Post Construction					20				20		20
TOTAL		195	195	1,508	481				1,989		2,184

FUNDING SOURCE SCHEDULE (000'S)

Storm Sewer Capital Fund	195	195	1,508	481			1,989	2,184
TOTAL	195	195	1,508	481			1,989	2,184

ANNUAL OPERATING BUDGET IMPACT (000'S)

None

Major Changes in Project Cost:

2016-2020 CIP - Increase of \$2.0 million due to an increase in project scope related to the Proposition 84 Integrated Regional Water Management grant requirements.

Notes:

A portion of the Proposition 84 Integrated Regional Water Management (IRWM) Grant of \$2.0 million and a local match of \$183,000 will fund this project. Prior to the 2016-2020 CIP, this project was titled "San José Green Street Demonstration Project".

FY Initiated:	2014-2015	Appn. #:	7761
Initial Project Budget:	\$195,000	USGBC LEED:	N/A

Storm Sewer System
2016-2020 Adopted Capital Improvement Program
Detail of Construction Projects

5. Large Trash Capture Devices

CSA: Environmental and Utility Services **Initial Start Date:** 3rd Qtr. 2014
CSA Outcome: Reliable Utility Infrastructure **Revised Start Date:**
Department: Public Works **Initial Completion Date:** 2nd Qtr. 2016
Council District: City-wide **Revised Completion Date:** 2nd Qtr. 2017
Location: Intersection of Story Road and Roberts Avenue, Intersection of Roberts Avenue and Oswego Drive, Intersection of Lucretia Avenue and Winifred Drive, Intersection of Lewis Road and Lone Bluff Way, Intersection of Balfour Drive and Lone Bluff Way, and Fullerton Court between Fonick Drive and Coyote Rd.
Description: This project includes the installation of large trash capture devices throughout the City in order to meet the Municipal Regional Permit Provision C.10 trash reduction requirements.
Justification: This project will reduce and/or remove trash from the City's storm sewer system prior to discharging into local water ways.

EXPENDITURE SCHEDULE (000'S)

Cost Elements	Prior Years	2014-15 Appn.	2014-15 Estimate	2015-16	2016-17	2017-18	2018-19	2019-20	5-Year Total	Beyond 5-Year	Project Total
Development		256	256	300	200				500		756
Design		363	363	730	450				1,180		1,543
Bid & Award		10	10	20	10				30		40
Construction		2,999	2,999	3,772	2,320				6,092		9,091
Post Construction				30	20				50		50
TOTAL		3,628	3,628	4,852	3,000				7,852		11,480

FUNDING SOURCE SCHEDULE (000'S)

Storm Sewer Capital Fund	3,628	3,628	4,852	3,000				7,852		11,480
TOTAL	3,628	3,628	4,852	3,000				7,852		11,480

ANNUAL OPERATING BUDGET IMPACT (000'S)

None

Major Changes in Project Cost:

None

Notes:

FY Initiated: 2014-2015 **Appn. #:** 7676
Initial Project Budget: \$11,480,000 **USGBC LEED:** N/A

Storm Sewer System

2016-2020 Adopted Capital Improvement Program

Detail of Construction Projects

6. Martha Gardens Green Alley

CSA:	Environmental and Utility Services	Initial Start Date:	2nd Qtr. 2013
CSA Outcome:	Reliable Utility Infrastructure	Revised Start Date:	
Department:	Public Works	Initial Completion Date:	2nd Qtr. 2014
Council District:	3	Revised Completion Date:	2nd Qtr. 2016
Location:	Alleyways extending from Margaret Street (Alleyway terminus at I-880) to Martha Street, between Second and Third Streets		
Description:	This project will construct a drainage system using underground infiltration facilities with a permeable surface. In addition, this project will reconstruct the alleyways to prevent standing water on the road way.		
Justification:	This project is needed to address residents' request to improve longstanding drainage issues within the alleyways. In addition, this project will address community aesthetics, provide improved vehicular travel way, and install green stormwater infrastructure that will result in a reduction of stormwater pollutants entering local creeks and waterways.		

EXPENDITURE SCHEDULE (000'S)

Cost Elements	Prior Years	2014-15 Appn.	2014-15 Estimate	2015-16	2016-17	2017-18	2018-19	2019-20	5-Year Total	Beyond 5-Year	Project Total
Design	87										87
Bid & Award			10								10
Construction		1,363	1,096	300					300		1,396
Post Construction		43		43					43		43
TOTAL	87	1,406	1,106	343					343		1,536

FUNDING SOURCE SCHEDULE (000'S)

Storm Sewer Capital Fund	87	1,406	1,106	343					343		1,536
TOTAL	87	1,406	1,106	343					343		1,536

ANNUAL OPERATING BUDGET IMPACT (000'S)

None

Major Changes in Project Cost:

2014-2018 CIP - Increase of \$945,000 due to an increase in project scope related to the California Proposition 84 grant requirements.

2015-2019 CIP - Increase of \$155,000 due to project scope change, which will include the addition of access manholes, grated inlets, storm laterals, and curbs and gutters to address storm water ponding.

Notes:

A portion of the California Proposition 84 Stormwater Grant of \$945,180 and a local match of \$591,000 will fund this project.

FY Initiated:	2012-2013	Appn. #:	2035
Initial Project Budget:	\$393,000	USGBC LEED:	N/A

Storm Sewer System

2016-2020 Adopted Capital Improvement Program

Detail of Construction Projects

7. Minor Neighborhood Storm Sewer Improvements

CSA:	Environmental and Utility Services	Initial Start Date:	Ongoing
CSA Outcome:	Reliable Utility Infrastructure	Revised Start Date:	
Department:	Public Works	Initial Completion Date:	Ongoing
Council District:	City-wide	Revised Completion Date:	
Location:	City-wide		

Description: This allocation funds minor storm drain projects, such as construction of new inlets and laterals (storm pipe connections from the inlet to the main), and the establishment of flow-lines in various neighborhoods. Resources will be allocated to address these needs as funding permits.

Justification: This allocation will provide relief for minor drainage problems on neighborhood streets and improve water quality in the runoff conducted by the system.

EXPENDITURE SCHEDULE (000'S)

Cost Elements	Prior Years	2014-15 Appn.	2014-15 Estimate	2015-16	2016-17	2017-18	2018-19	2019-20	5-Year Total	Beyond 5-Year	Project Total
Development		25	25	30	30	30	30	30	150		
Design		50	10	120	80	60	60	60	380		
Bid & Award		5	9	10	10	10	10	10	50		
Construction		1,599	1,130	1,330	470	390	390	390	2,970		
Post Construction		5	10	10	10	10	10	10	50		
TOTAL		1,684	1,184	1,500	600	500	500	500	3,600		

FUNDING SOURCE SCHEDULE (000'S)

Storm Sewer Capital Fund		1,684	1,184	1,500	600	500	500	500	3,600
TOTAL		1,684	1,184	1,500	600	500	500	500	3,600

ANNUAL OPERATING BUDGET IMPACT (000'S)

None

Major Changes in Project Cost:

N/A

Notes:

Project schedule dates and selected budget information are not provided due to the ongoing nature of this project.

FY Initiated:	Ongoing	Appn. #:	4483
Initial Project Budget:		USGBC LEED:	N/A

Storm Sewer System

2016-2020 Adopted Capital Improvement Program

Detail of Construction Projects

8. Ocala Avenue Green Street Project

CSA:	Environmental and Utility Services	Initial Start Date:	1st Qtr. 2015
CSA Outcome:	Reliable Utility Infrastructure	Revised Start Date:	
Department:	Public Works	Initial Completion Date:	2nd Qtr. 2017
Council District:	5	Revised Completion Date:	
Location:	Ocala Avenue between Capitol Expressway and Daytona Drive		

Description: This project incorporates bioretention areas in the park strip and a landscaped median island along Ocala Avenue between Daytona Drive and Capitol Expressway to meet stormwater treatment requirements set forth by the Municipal Regional Permit using Low Impact Development (LID) techniques.

Justification: This project incorporates stormwater quality treatment using bioretention areas, a LID practice, to capture and treat stormwater. Installation of this type of treatment measure is expected to reduce the pollutants entering our local creeks and waterways from City streets. In addition, this project will allow the Environmental Services Department to monitor the effectiveness of retrofitting an existing urban street with bioretention areas.

EXPENDITURE SCHEDULE (000'S)

Cost Elements	Prior Years	2014-15 Appn.	2014-15 Estimate	2015-16	2016-17	2017-18	2018-19	2019-20	5-Year Total	Beyond 5-Year	Project Total
Development		100	100								100
Design		30	30	170					170		200
Bid & Award				6					6		6
Construction				455	1,055				1,510		1,510
Post Construction					15				15		15
TOTAL		130	130	631	1,070				1,701		1,831

FUNDING SOURCE SCHEDULE (000'S)

Storm Sewer Capital Fund	130	130	631	1,070				1,701		1,831
TOTAL	130	130	631	1,070				1,701		1,831

ANNUAL OPERATING BUDGET IMPACT (000'S)

None

Major Changes in Project Cost:

2016-2020 CIP - Increase of \$1.7 million due to an increase in project scope related to the California Proposition 84 grant requirements.

Notes:

A portion of the California Proposition 84 Stormwater Program Grant of \$1.4 million and a local match of \$401,000 will fund this project. This project was initiated during 2014-2015.

FY Initiated:	2014-2015	Appn. #:	7765
Initial Project Budget:	\$130,000	USGBC LEED:	N/A

Storm Sewer System

2016-2020 Adopted Capital Improvement Program

Detail of Construction Projects

9. Outfall Rehabilitation - Capital

CSA:	Environmental and Utility Services	Initial Start Date:	Ongoing
CSA Outcome:	Reliable Utility Infrastructure	Revised Start Date:	
Department:	Public Works	Initial Completion Date:	Ongoing
Council District:	City-wide	Revised Completion Date:	
Location:	City-wide		

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 Santa Clara Valley Water District.

Justification: This allocation will repair aging outfall structures, enhance erosion protection and water quality, and alleviate maintenance operations.

EXPENDITURE SCHEDULE (000'S)

Cost Elements	Prior Years	2014-15 Appn.	2014-15 Estimate	2015-16	2016-17	2017-18	2018-19	2019-20	5-Year Total	Beyond 5-Year	Project Total
Construction Planning and Engineering		1,125	1,125	1,000	500	500	500	500	3,000		
TOTAL		1,125	1,125	1,000	500	500	500	500	3,000		

FUNDING SOURCE SCHEDULE (000'S)

Storm Sewer Capital Fund	1,125	1,125	1,000	500	500	500	500	3,000
TOTAL	1,125	1,125	1,000	500	500	500	500	3,000

ANNUAL OPERATING BUDGET IMPACT (000'S)

None

Major Changes in Project Cost:

N/A

Notes:

Project schedule dates and selected budget information are not provided due to the ongoing nature of this project.

FY Initiated:	Ongoing	Appn. #:	4245
Initial Project Budget:		USGBC LEED:	N/A

Storm Sewer System

2016-2020 Adopted Capital Improvement Program

Detail of Construction Projects

10. Park Avenue Green Street Pilot

CSA:	Environmental and Utility Services	Initial Start Date:	2nd Qtr. 2013
CSA Outcome:	Reliable Utility Infrastructure	Revised Start Date:	3rd Qtr. 2014
Department:	Public Works	Initial Completion Date:	2nd Qtr. 2014
Council District:	6	Revised Completion Date:	2nd Qtr. 2016
Location:	Park Avenue between Meridian Avenue and Sunol Street		

Description: This project will install bioretention areas along Park Avenue between Meridian Avenue and Sunol Street in order to provide stormwater treatment for this segment of Park Avenue.

Justification: This project incorporates stormwater quality treatment using bioretention areas, a Low Impact Development practice, to capture and treat stormwater. Installation of this type of treatment measure is expected to reduce the pollutants entering our local creeks and waterways from City streets. In addition, this project will allow the Environmental Services Department to monitor the effectiveness of retrofitting an existing urban street with bioretention areas.

EXPENDITURE SCHEDULE (000'S)											
Cost Elements	Prior Years	2014-15 Appn.	2014-15 Estimate	2015-16	2016-17	2017-18	2018-19	2019-20	5-Year Total	Beyond 5-Year	Project Total
Development		15	15								15
Design		106	106								106
Bid & Award		5	5								5
Construction		1,075	80	975					975		1,055
Post Construction		5		25					25		25
TOTAL		1,206	206	1,000					1,000		1,206

FUNDING SOURCE SCHEDULE (000'S)											
Cost Elements	Prior Years	2014-15 Appn.	2014-15 Estimate	2015-16	2016-17	2017-18	2018-19	2019-20	5-Year Total	Beyond 5-Year	Project Total
Storm Sewer Capital Fund		1,206	206	1,000					1,000		1,206
TOTAL		1,206	206	1,000					1,000		1,206

ANNUAL OPERATING BUDGET IMPACT (000'S)

None

Major Changes in Project Cost:

2014-2018 CIP - Increase of \$859,000 due to an increase in project scope related to the California Proposition 84 grant requirements.

Notes:

A portion of the California Proposition 84 Stormwater Grant of \$859,000 and a local match of \$347,000 will fund this project. Prior to 2016-2020 CIP, this project was titled "Park Avenue Green Avenue".

FY Initiated:	2012-2013	Appn. #:	7500
Initial Project Budget:	\$347,000	USGBC LEED:	N/A

Storm Sewer System

2016-2020 Adopted Capital Improvement Program

Detail of Construction Projects

11. Storm Pump Station Rehabilitation and Replacement

CSA:	Environmental and Utility Services	Initial Start Date:	Ongoing
CSA Outcome:	Reliable Utility Infrastructure	Revised Start Date:	
Department:	Public Works	Initial Completion Date:	Ongoing
Council District:	City-wide	Revised Completion Date:	
Location:	City-wide		

Description: This allocation funds the rehabilitation, reconstruction, or replacement of aging pump stations that require high levels of maintenance.

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.

EXPENDITURE SCHEDULE (000'S)

Cost Elements	Prior Years	2014-15 Appn.	2014-15 Estimate	2015-16	2016-17	2017-18	2018-19	2019-20	5-Year Total	Beyond 5-Year	Project Total
Development		3	3	3	3	3	3	3	15		
Design		56	56	56	56	56	56	56	280		
Bid & Award		3	3	3	3	3	3	3	15		
Construction		626	626	436	236	236	236	236	1,380		
Post Construction		2	2	2	2	2	2	2	10		
TOTAL		690	690	500	300	300	300	300	1,700		

FUNDING SOURCE SCHEDULE (000'S)

Storm Sewer Capital Fund	690	690	500	300	300	300	300	300	1,700
TOTAL	690	690	500	300	300	300	300	300	1,700

ANNUAL OPERATING BUDGET IMPACT (000'S)

None

Major Changes in Project Cost:

N/A

Notes:

Project schedule dates and selected budget information are not provided due to the ongoing nature of this project.

FY Initiated:	Ongoing	Appn. #:	5150
Initial Project Budget:		USGBC LEED:	N/A

Storm Sewer System
2016-2020 Adopted Capital Improvement Program
Detail of Construction Projects

12. Storm Sewer Improvements - Special Corridors

CSA:	Environmental and Utility Services	Initial Start Date:	Ongoing
CSA Outcome:	Reliable Utility Infrastructure	Revised Start Date:	
Department:	Public Works	Initial Completion Date:	Ongoing
Council District:	City-wide	Revised Completion Date:	
Location:	City-wide		

Description: This allocation funds the investigation of ponding complaints; development of strategies to improve local drainage with the reconstruction of curbs, gutters, and other infrastructure; development of construction plans; and construction and associated management. This allocation will also provide for the Department of Public Works staff to document ponding problems that staff observes and reports, with a focus on areas with heavy pedestrian activity, such as school routes and near community centers, libraries, and other public facilities.

Justification: This allocation will help address storm water ponding within neighborhoods, which has the capacity to cause localized flooding problems and impede pedestrian accessibility.

EXPENDITURE SCHEDULE (000'S)											
Cost Elements	Prior Years	2014-15 Appn.	2014-15 Estimate	2015-16	2016-17	2017-18	2018-19	2019-20	5-Year Total	Beyond 5-Year	Project Total
Development		15	15	15	15	15	15	15	75		
Design		50	50	100	50	50	50	50	300		
Bid & Award		10	10	10	10	10	10	10	50		
Construction		392	392	870	220	220	220	220	1,750		
Post Construction		5	5	5	5	5	5	5	25		
TOTAL		472	472	1,000	300	300	300	300	2,200		

FUNDING SOURCE SCHEDULE (000'S)											
Storm Sewer Capital Fund		472	472	1,000	300	300	300	300	2,200		
TOTAL		472	472	1,000	300	300	300	300	2,200		

ANNUAL OPERATING BUDGET IMPACT (000'S)										
None										

Major Changes in Project Cost:

N/A

Notes:

Project schedule dates and selected budget information are not provided due to the ongoing nature of this project. Prior to the 2012-2016 CIP, this project was titled "Storm Drainage Improvements - Special Corridors".

FY Initiated:	Ongoing	Appn. #:	5046
Initial Project Budget:		USGBC LEED:	N/A

Storm Sewer System
2016-2020 Adopted Capital Improvement Program
Detail of Construction Projects

13. Urgent Flood Prevention and Repair Projects

CSA:	Environmental and Utility Services	Initial Start Date:	Ongoing
CSA Outcome:	Reliable Utility Infrastructure	Revised Start Date:	
Department:	Public Works	Initial Completion Date:	Ongoing
Council District:	City-wide	Revised Completion Date:	
Location:	City-wide		

Description: 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 ensure public health and safety.

EXPENDITURE SCHEDULE (000'S)

Cost Elements	Prior Years	2014-15 Appn.	2014-15 Estimate	2015-16	2016-17	2017-18	2018-19	2019-20	5-Year Total	Beyond 5-Year	Project Total
Development		10	10	10	10	10	10	10	50		
Design		100	100	90	70	70	70	90	390		
Bid & Award		10	10	10	10	10	10	10	50		
Construction		1,616	1,616	890	510	510	510	590	3,010		
TOTAL		1,736	1,736	1,000	600	600	600	700	3,500		

FUNDING SOURCE SCHEDULE (000'S)

Storm Drainage Fee Fund	66	66	100	100	100	100	100	500
Storm Sewer Capital Fund	1,670	1,670	900	500	500	500	600	3,000
TOTAL	1,736	1,736	1,000	600	600	600	700	3,500

ANNUAL OPERATING BUDGET IMPACT (000'S)

None

Major Changes in Project Cost:

N/A

Notes:

Project schedule dates and selected budget information are not provided due to the ongoing nature of this project.

FY Initiated:	Ongoing	Appn. #:	4287
Initial Project Budget:		USGBC LEED:	N/A

Storm Sewer System
2016-2020 Adopted Capital Improvement Program
Detail of Non-Construction Projects

14. Fee Administration

CSA: Environmental and Utility Services
CSA Outcome: Reliable Utility Infrastructure
Department: Public Works
Description: This allocation provides funding for the Department of Public Works Development Program to collect Storm Drainage Fees.

EXPENDITURE SCHEDULE (000'S)											
Cost Elements	Prior Years	2014-15 Appn.	2014-15 Estimate	2015-16	2016-17	2017-18	2018-19	2019-20	5-Year Total	Beyond 5-Year	Project Total
Program Management		25	25	25	30	30	30	30	145		
TOTAL		25	25	25	30	30	30	30	145		
FUNDING SOURCE SCHEDULE (000'S)											
Storm Drainage Fee Fund		25	25	25	30	30	30	30	145		
TOTAL		25	25	25	30	30	30	30	145		

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

Appn. #: 5411

15. Flow Monitoring Program

CSA: Environmental and Utility Services
CSA Outcome: Reliable Utility Infrastructure
Department: Public Works
Description: This allocation funds the installation of flow monitors and rain gauges to measure the actual amount of flow in the pipe at certain points in the storm sewer network based on a measured amount of rainfall. This information will validate the Master Plan modeling effort and design assumptions by providing data in order to analyze the relationship between the amount of rainfall, the amount of stormwater runoff, and the type of storm drain (inlet, pipe, pump station, outfall, etc.).

EXPENDITURE SCHEDULE (000'S)											
Cost Elements	Prior Years	2014-15 Appn.	2014-15 Estimate	2015-16	2016-17	2017-18	2018-19	2019-20	5-Year Total	Beyond 5-Year	Project Total
Construction Master Plan/Study		933	933	1,154	254	254	254	254	2,170		
TOTAL		933	933	1,154	254	254	254	254	2,170		
FUNDING SOURCE SCHEDULE (000'S)											
Storm Drainage Fee Fund											
Storm Sewer Capital Fund		933	933	1,154	254	254	254	254	2,170		
TOTAL		933	933	1,154	254	254	254	254	2,170		

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

Appn. #: 5867

Storm Sewer System
2016-2020 Adopted Capital Improvement Program
Detail of Non-Construction Projects

16. Permit Review and Inspection for Outside Agencies

CSA: Environmental and Utility Services
CSA Outcome: Reliable Utility Infrastructure
Department: Public Works
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.

EXPENDITURE SCHEDULE (000'S)											
Cost Elements	Prior Years	2014-15 Appn.	2014-15 Estimate	2015-16	2016-17	2017-18	2018-19	2019-20	5-Year Total	Beyond 5-Year	Project Total
Program Management		50	50	50	25	25	25	25	150		
TOTAL		50	50	50	25	25	25	25	150		
FUNDING SOURCE SCHEDULE (000'S)											
Storm Drainage Fee Fund											
Storm Sewer Capital Fund		50	50	50	25	25	25	25	150		
TOTAL		50	50	50	25	25	25	25	150		

Notes:
 Selected budget information is not provided due to the ongoing nature of this project. This project was previously titled "Permit Review and Inspection for SCVWD".

Appn. #: 7075

17. Preliminary Engineering

CSA: Environmental and Utility Services
CSA Outcome: Reliable Utility Infrastructure
Department: Public Works
Description: This allocation supports preliminary engineering for projects related to the storm sewer system, including surveys and evaluations of project impacts on the storm sewer system.

EXPENDITURE SCHEDULE (000'S)											
Cost Elements	Prior Years	2014-15 Appn.	2014-15 Estimate	2015-16	2016-17	2017-18	2018-19	2019-20	5-Year Total	Beyond 5-Year	Project Total
Planning and Engineering		185	185	180	180	160	160	160	840		
TOTAL		185	185	180	180	160	160	160	840		
FUNDING SOURCE SCHEDULE (000'S)											
Storm Drainage Fee Fund											
Storm Sewer Capital Fund		185	185	180	180	160	160	160	840		
TOTAL		185	185	180	180	160	160	160	840		

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

Appn. #: 4284

Storm Sewer System

2016-2020 Adopted Capital Improvement Program

Detail of Non-Construction Projects

18. Program Management

CSA: Environmental and Utility Services
CSA Outcome: Reliable Utility Infrastructure
Department: Public Works
Description: This allocation provides funding for the monitoring of storm-related capital improvement projects, the floodwatch program, and the preparation of the Storm Sewer System Capital Improvement Program.

EXPENDITURE SCHEDULE (000'S)											
Cost Elements	Prior Years	2014-15 Appn.	2014-15 Estimate	2015-16	2016-17	2017-18	2018-19	2019-20	5-Year Total	Beyond 5-Year	Project Total
Program Management		150	150	150	150	150	150	150	750		
TOTAL		150	150	150	150	150	150	150	750		
FUNDING SOURCE SCHEDULE (000'S)											
Storm Drainage Fee Fund											
Storm Sewer Capital Fund		150	150	150	150	150	150	150	750		
TOTAL		150	150	150	150	150	150	150	750		

Notes:
 Selected budget information is not provided due to the ongoing nature of this project.
Appn. #: 4286

19. Storm Sewer Master Plan - City-wide

CSA: Environmental and Utility Services
CSA Outcome: Reliable Utility Infrastructure
Department: Public Works
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 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.

EXPENDITURE SCHEDULE (000'S)											
Cost Elements	Prior Years	2014-15 Appn.	2014-15 Estimate	2015-16	2016-17	2017-18	2018-19	2019-20	5-Year Total	Beyond 5-Year	Project Total
Master Plan/Study		3,616	3,616	950	900	900	900	900	4,550		
TOTAL		3,616	3,616	950	900	900	900	900	4,550		
FUNDING SOURCE SCHEDULE (000'S)											
Storm Drainage Fee Fund		311	311	100	100				200		
Storm Sewer Capital Fund		3,305	3,305	850	800	900	900	900	4,350		
TOTAL		3,616	3,616	950	900	900	900	900	4,550		

Notes:
 Selected budget information is not provided due to the ongoing nature of this project.
Appn. #: 5252, 7621



2015-2016 CAPITAL BUDGET

2016-2020 CAPITAL IMPROVEMENT PROGRAM



STORM SEWER SYSTEM

SUMMARY OF RESERVES

The Summary of Reserves includes all reserves budgeted within the Five-Year Capital Improvement Program. On the Use of Funds statement, the projects in these summaries are not numbered.

Storm Sewer System

2016-2020 Adopted Capital Improvement Program

Summary of Reserves

Project Name:	Charcot Storm Pump Station Reserve	Initial Start Date:	N/A
5-Year CIP Budget:	\$2,000,000	Revised Start Date:	
Total Budget:	\$2,000,000	Initial End Date:	N/A
Council District:	4	Revised End Date:	
USGBC LEED:	N/A		

Description: This reserve sets aside funding for the construction of the Charcot Storm Pump Station. This pump station is needed to alleviate flooding in the area roughly bounded by Charcot Avenue, Interstate 880 and US Highway 101. Preliminary estimates of the total cost for design and construction of the pump station and pipeline improvements is approximately \$30.0 million.

Project Name:	Storm Sewer Master Plan Reserve	Initial Start Date:	N/A
5-Year CIP Budget:	\$1,000,000	Revised Start Date:	
Total Budget:	\$1,000,000	Initial End Date:	N/A
Council District:	N/A	Revised End Date:	
USGBC LEED:	N/A		

Description: This reserve sets aside funding for future projects identified by the Storm Sewer Master Plan. The Storm Sewer Master Plan is anticipated to be completed in 2017.

PAGE IS INTENTIONALLY LEFT BLANK