



# 2017-2018 CAPITAL BUDGET

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## 2018-2022 CAPITAL IMPROVEMENT PROGRAM



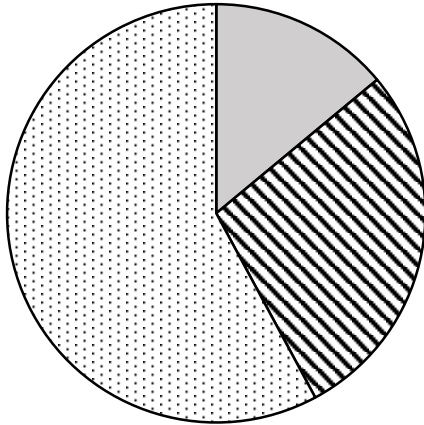
### COMMUNICATIONS

# COMMUNICATIONS

## 2018-2022 Capital Improvement Program

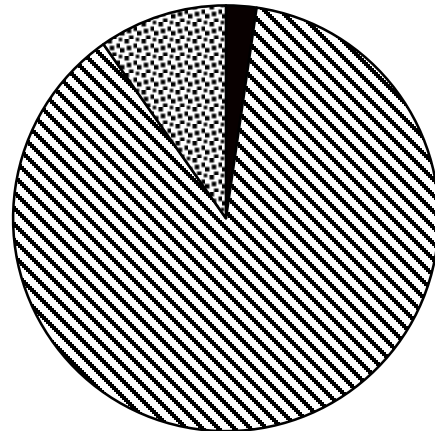
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**2017-2018 Proposed  
Source of Funds**



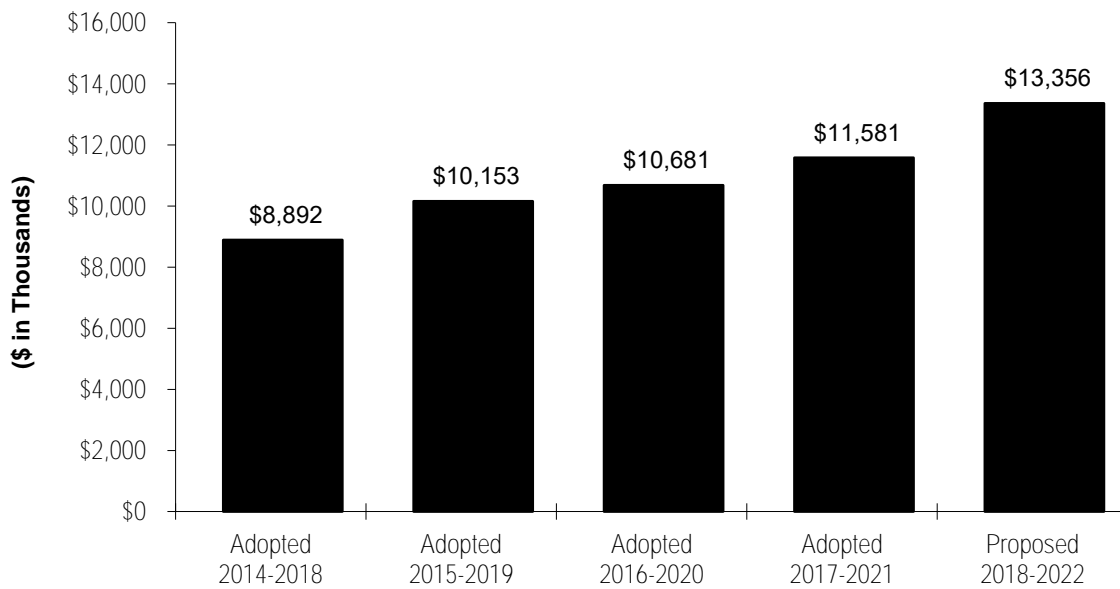
- Beginning Fund Balance
- ▨ Taxes, Fees and Charges
- Loans and Transfers

**2017-2018 Proposed  
Use of Funds**



- Construction
- ▨ Non-Construction
- ▤ Ending Fund Balance

**CIP History**



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# Communications

## 2018-2022 Proposed Capital Improvement Program

### Overview

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#### INTRODUCTION

In October 1990, the City assumed the responsibility of providing its own emergency communications service for Police and Fire from the County of Santa Clara. The Communications Capital Improvement Program (CIP) was set up to address the replacement and upgrade of both the public safety and non-public safety radio equipment. In addition, this Program funds capital improvements related to communications facilities including land and interests in land, buildings, structures, radio and other equipment, and streets and sidewalks adjacent to City communication facilities.

COMMUNICATIONS INFRASTRUCTURE	
FIXED EQUIPMENT SITES	25
BASE STATIONS	100
MOBILE & PORTABLES	6,700

The 2018-2022 Proposed CIP provides funding of \$13.4 million of which \$4.3 million is allocated in 2017-2018. This program is part of the Strategic Support City Service Area (CSA) and supports the following outcomes from that CSA: *Safe and Functional Public Infrastructure, Facilities and Equipment*; and *Effective Use of State-of-the-Art Technology*.

#### PROGRAM PRIORITIES AND OBJECTIVES

The Communications CIP's guiding objective is the provision of reliable, necessary public and non-public safety-related communications equipment for all City employees who need this equipment to perform their job duties. Based on the CSA outcomes supported by this program, the following list of priorities has been developed:

- Proactively replace public safety-related communications equipment and systems to ensure reliability and optimal performance, and compliance with rules of the Federal Communications Commission;
- Maintain existing radio equipment in a proactive manner to ensure optimal functionality and to extend the length of service; and
- Strategically plan for future major upgrades and technology changes.
- Continue to support the Silicon Valley Regional Interoperability Authority

#### SOURCES OF FUNDING

The 2017-2018 Proposed Capital Budget estimate for Construction and Conveyance (C&C) taxes is \$36 million, of which 3.4% is allocated to the Communications Capital Program. Approximately 99% of this tax is derived from a transfer tax imposed upon each transfer of real property, with the

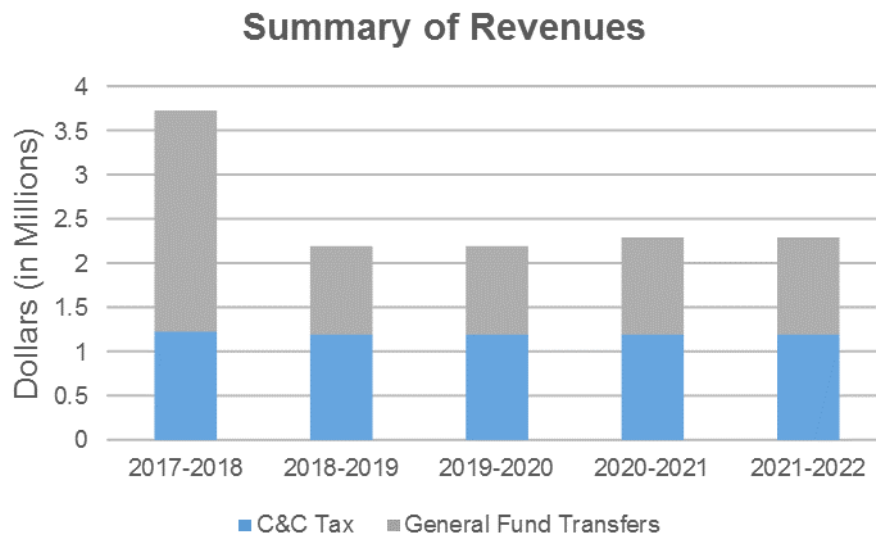
# Communications

## 2018-2022 Proposed Capital Improvement Program

### Overview

#### SOURCES OF FUNDING

remaining 1% generated from a construction tax levied on most types of construction. The 2018-2022 CIP assumes 2016-2017 C&C tax revenues of \$38.0 million will be lower than the 2015-2016 receipts of \$42.7 million by approximately 11.0%, decrease again slightly in 2017-2018 to \$36.0 million and then remain flat at \$35.0 million for each remaining year of the CIP. Over the five years of the CIP, collections allocated to the Communications Capital Program will total \$6.0 million. For additional information regarding C&C Tax revenue, please refer to the Construction and Conveyance Tax section of the Summary of Capital Improvement Program Revenues, which is located in the Summary Information (Section III) of this CIP.



At estimated C&C Tax collection levels, funding of \$6.7 million from the General Fund is programmed over the CIP for the Communications Capital Program in order to primarily fund contributions to the Silicon Valley Regional Interoperability Authority (SVRIA). To the extent that C&C Tax revenues are received above or below projected levels, the General Fund transfer to this program will be reduced or increased accordingly.

#### PROGRAM HIGHLIGHTS

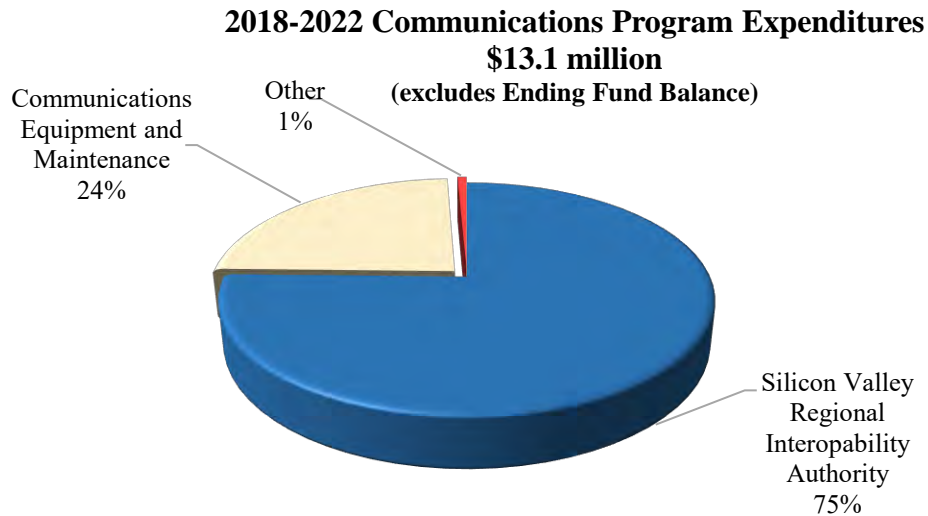
The Communications Capital Program's expenditures are organized to show the use of funds in several categories. The following highlights the major project in the program. For further information on the program's individual projects, please refer to the Detail Pages.

# Communications

## 2018-2022 Proposed Capital Improvement Program

### Overview

#### PROGRAM HIGHLIGHTS



#### Silicon Valley Regional Communications System

The Silicon Valley Regional Interoperability Authority (SVRIA) is a joint powers authority consisting of 19 member agencies, including the City of San José, whose mission is to identify, coordinate and implement communication interoperability solutions to its member agencies by integrating voice and data communications between law enforcement, fire and rescue services, emergency medical services, and emergency management for routine operations, critical incidents and disaster response and recovery. The Silicon Valley Regional Communications System (SVRCS), a multistage project coordinated by SVRIA, will replace the existing public safety radio systems currently in use in Santa Clara County with a system that uses the 700/800MHz spectrum, which allows for enhanced data transmissions, additional capacity for mutual aid scenarios, and the ability to record transmissions for training purposes. The additional transmission towers, repeater sites, and other infrastructure required to build out the SVRCS is estimated to cost \$28.9 million. The City's estimated share, based on its proportionate number of communication devices, is \$7.5 million. The City also needs to purchase new radios (\$13.1 million) and dispatch consoles (\$3 million for Police and Fire Communications Center and \$1 million for the South San José Police Substation) that can fully operate on the new system, bringing the City's total need for the SVRCS to \$24.6 million.

The City entered into a Memorandum of Understanding (MOU) with SVRIA, as approved by the City Council on June 16, 2015, for the City's proportionate share of the infrastructure buildout for the SVRCS project in the amount of \$7.6 million over a three-year period. The City's share of the system's infrastructure's cost will be fully funded in September 2017.

# Communications

## 2018-2022 Proposed Capital Improvement Program

### Overview

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#### PROGRAM HIGHLIGHTS



***Cadwallader Reservoir  
Radio Tower***

To date, a total of \$10.9 million has been allocated for radio replacements. In addition, over the five-year CIP, approximately \$2.3 million is included in the Silicon Valley Regional Communications System – Radios project to complete the necessary radio purchases. A total of 2,100 subscribers, portables and mobile radios have been replaced, with an additional 650 remaining. Four sites have been completed in the central cell with an additional nine to be constructed.

In 2017-2018, funding of \$4.0 million (\$2.3 million in the Communications CIP) is allocated in the Proposed

Operating and Capital Budgets to purchase Silicon Valley Regional Communications (SVRCS) dispatch consoles for use in the Police and Fire Communications Center that serves as the primary Public Safety Answering Point (PSAP) and the South San José Police Substation that serves as the secondary PSAP.



***Emergency Communications Microwave  
Antennae at Eagle Rock***

A total of 34 dispatch consoles is needed in the Police and Fire Communications Center (of this amount, two consoles have already been purchased) to go live on the SVRCS by December 2018. To meet this need, \$3 million is allocated to purchase 32 consoles and includes the following funding sources in the Proposed Operating and Capital Budgets: \$900,000 transfer from the General Fund to the Communications and Conveyance Tax Fund; \$738,000 from the Supplemental Law Enforcement Services Fund, \$570,000 from a Urban Areas Security Initiative (UASI) Grant – Police 2016 rebudget in the General Fund; \$379,000 from the Communications Construction and Conveyance Tax Fund, \$271,000 from the State Drug Forfeiture Fund, \$92,000 from the Gift Trust Fund and \$50,000 from the Edward Byrne Memorial Justice Assistance Grant Trust Fund.

In addition, \$1.0 million is transferred from the General Fund to the Communications Construction and Conveyance Tax Fund to purchase 14 consoles at the South San José Police Substation.

**Communications**  
**2018-2022 Proposed Capital Improvement Program**

Overview

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

The overall size of the Communications CIP has increased by \$1.8 million from \$11.6 million in the 2017-2021 Adopted CIP to \$13.4 million in the 2018-2022 Proposed CIP primarily due to additional funding for the SVRCS dispatch consoles. The following table outlines the most significant changes to project budgets, including new/augmented allocations and reduced/eliminated allocations.

<b>Project</b>	<b>Incr/(Decr)</b>
Silicon Valley Regional Communications System – Dispatch Consoles	\$2,279,000
Silicon Valley Regional Interoperability Authority - Maintenance	\$356,000
Silicon Valley Regional Communications System - Radios	(\$250,000)

**OPERATING BUDGET IMPACT**

It is anticipated that there will be no additional operating and maintenance costs associated with projects included in the 2018-2022 Proposed CIP.



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**2017-2018 CAPITAL BUDGET**

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**2018-2022 CAPITAL  
IMPROVEMENT PROGRAM**

**COMMUNICATIONS**

**SOURCE AND USE OF FUNDS  
STATEMENTS**

Communications  
**2018-2022 Proposed Capital Improvement Program**  
**Source of Funds (Combined)**

	Estimated						
	<u>2016-2017</u>	<u>2017-2018</u>	<u>2018-2019</u>	<u>2019-2020</u>	<u>2020-2021</u>	<u>2021-2022</u>	<u>5-Year Total</u>
<b>Communications Construction and Conveyance Tax Fund</b>							
<b>Beginning Balance</b>	1,439,140	607,140	424,140	350,140	258,140	258,140	607,140
<b>Reserve for Encumbrance</b>	106,812						
<b>Transfers</b>							
Communications Projects		2,500,000	1,000,000	1,000,000	1,100,000	1,100,000	6,700,000
<b>TOTAL Transfers</b>		<b>2,500,000</b>	<b>1,000,000</b>	<b>1,000,000</b>	<b>1,100,000</b>	<b>1,100,000</b>	<b>6,700,000</b>
<b>Revenue from Use of Money and Property</b>							
Interest Income	13,000	13,000	13,000	13,000	13,000	13,000	65,000
<b>TOTAL Revenue from Use of Money and Property</b>	<b>13,000</b>	<b>13,000</b>	<b>13,000</b>	<b>13,000</b>	<b>13,000</b>	<b>13,000</b>	<b>65,000</b>
<b>Construction &amp; Conveyance Tax</b>							
C&C Tax Proceeds	1,292,000	1,224,000	1,190,000	1,190,000	1,190,000	1,190,000	5,984,000
<b>TOTAL Construction &amp; Conveyance Tax</b>	<b>1,292,000</b>	<b>1,224,000</b>	<b>1,190,000</b>	<b>1,190,000</b>	<b>1,190,000</b>	<b>1,190,000</b>	<b>5,984,000</b>
<b>Total Communications Construction and Conveyance Tax Fund</b>	<b>2,850,952</b>	<b>4,344,140</b>	<b>2,627,140</b>	<b>2,553,140</b>	<b>2,561,140</b>	<b>2,561,140</b>	<b>13,356,140</b>
<b>TOTAL SOURCES</b>	<b>2,850,952</b>	<b>4,344,140</b>	<b>2,627,140</b>	<b>2,553,140</b>	<b>2,561,140</b>	<b>2,561,140</b>	<b>13,356,140</b>

# Communications

## 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
<b><u>Communications</u></b>							
Communications Equipment Replacement and Upgrade	476,811	100,000	100,000	100,000	100,000	100,000	500,000
<b>Communications - Construction</b>	<b>476,811</b>	<b>100,000</b>	<b>100,000</b>	<b>100,000</b>	<b>100,000</b>	<b>100,000</b>	<b>500,000</b>
Communications Maintenance	483,000	497,000	512,000	527,000	543,000	560,000	2,639,000
Silicon Valley Regional Communications System - Radios	500,000	250,000	500,000	500,000	500,000	500,000	2,250,000
Silicon Valley Regional Interoperability Authority - Administration	150,000	158,000	161,000	164,000	167,000	170,000	820,000
Silicon Valley Regional Interoperability Authority - Maintenance	618,001	618,000	985,000	985,000	974,000	974,000	4,536,000
Silicon Valley Regional Communications System - Dispatch Consoles		2,279,000					2,279,000
<b>General Non-Construction - Communications</b>	<b>1,751,001</b>	<b>3,802,000</b>	<b>2,158,000</b>	<b>2,176,000</b>	<b>2,184,000</b>	<b>2,204,000</b>	<b>12,524,000</b>
<b>Communications - Non Construction</b>	<b>1,751,001</b>	<b>3,802,000</b>	<b>2,158,000</b>	<b>2,176,000</b>	<b>2,184,000</b>	<b>2,204,000</b>	<b>12,524,000</b>
City Hall Debt Service Fund	3,000	5,000	6,000	6,000	6,000	6,000	29,000
<b>Transfers to Special Funds</b>	<b>3,000</b>	<b>5,000</b>	<b>6,000</b>	<b>6,000</b>	<b>6,000</b>	<b>6,000</b>	<b>29,000</b>
General Fund - Interest Income	13,000	13,000	13,000	13,000	13,000	13,000	65,000
<b>Transfers to the General Fund</b>	<b>13,000</b>	<b>13,000</b>	<b>13,000</b>	<b>13,000</b>	<b>13,000</b>	<b>13,000</b>	<b>65,000</b>
<b>Transfers Expense</b>	<b>16,000</b>	<b>18,000</b>	<b>19,000</b>	<b>19,000</b>	<b>19,000</b>	<b>19,000</b>	<b>94,000</b>
<b>Total Expenditures</b>	<b>2,243,812</b>	<b>3,920,000</b>	<b>2,277,000</b>	<b>2,295,000</b>	<b>2,303,000</b>	<b>2,323,000</b>	<b>13,118,000</b>
Ending Fund Balance	607,140	424,140	350,140	258,140	258,140	238,140	238,140
<b>TOTAL</b>	<b>2,850,952</b>	<b>4,344,140</b>	<b>2,627,140</b>	<b>2,553,140</b>	<b>2,561,140</b>	<b>2,561,140</b>	<b>13,356,140</b>

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**2017-2018 CAPITAL BUDGET**

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**2018-2022 CAPITAL  
IMPROVEMENT PROGRAM**

**COMMUNICATIONS**

**DETAIL OF PROJECTS**

**Communications Capital Program**  
 2018-2022 Proposed Capital Improvement Program  
**Detail of Ongoing Construction Projects**

**Communications Equipment Replacement and Upgrade**

<b>CSA</b>	Strategic Support	<b>Initial Start Date</b>	Ongoing
<b>CSA Outcome</b>	Effective Use of State-of-the-Art Technology	<b>Initial End Date</b>	Ongoing
<b>Department</b>	Public Works	<b>Revised Start Date</b>	
<b>Location</b>	City-wide	<b>Revised End Date</b>	
<b>Council Districts</b>	City-wide	<b>Initial Project Budget</b>	
<b>Appropriation</b>	A4056		

**Description** This allocation funds the replacement and maintenance of communications equipment based upon useful life expectancy.

**Justification** This allocation funds essential communications equipment for Police, Fire, and non-public safety City operations.

**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
<b>Expenditure Schedule (000s)</b>							
General Administration	140						
Construction	107						
Equipment, Materials and Supplies	230	100	100	100	100	100	500
<b>Total</b>	<b>477</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>500</b>

<b>Funding Source Schedule (000s)</b>							
Communications Construction and Conveyance Tax Fund	477	100	100	100	100	100	500
<b>Total</b>	<b>477</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>500</b>

<b>Annual Operating Budget Impact (000s)</b>							
<b>Total</b>							

**Communications Capital Program**  
2018-2022 Proposed Capital Improvement Program

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

**Silicon Valley Regional Communications System - Dispatch Consoles**

**CSA** Strategic Support  
**CSA Outcome** Effective Use of State-of-the-Art Technology  
**Department** Public Works  
**Council Districts** City-wide  
**Appropriation** TEMP\_021

**Description** This allocation provides funding of \$2.3 million (\$4.0 million total in the Proposed Capital and Operating Budgets) to purchase Silicon Valley Regional Communications (SVRCS) dispatch consoles for use in the Police and Fire Communications Center that serves as the primary Public Safety Answering Point (PSAP) and the South San José Police Substation that serves as the secondary PSAP. A total of 34 dispatch consoles is needed in the Police and Fire Communications Center (of this amount, two consoles have already been purchased) to go live on the SVRCS by December 2018. To meet this need, \$3 million is allocated to purchase 32 consoles and includes the following funding sources in the Proposed Operating and Capital Budgets: \$900,000 transfer from the General Fund to the Communications and Conveyance Tax Fund; \$738,000 from the Supplemental Law Enforcement Services Fund, \$570,000 from a Urban Areas Security Initiative (UASI) Grant – Police 2016 rebudget in the General Fund; \$379,000 from the Communications Construction and Conveyance Tax Fund, \$271,000 from the State Drug Forfeiture Fund, \$92,000 from the Gift Trust Fund and \$50,000 from the Edward Byrne Memorial Justice Assistance Grant Trust Fund. In addition, \$1.0 million is transferred from the General Fund to the Communications Construction and Conveyance Tax Fund to purchase 14 consoles for use at the South San José Police Substation.

**Notes**

	PRIOR YEARS	FY17 EST	FY18	FY19	FY20	FY21	FY22	5 YEAR TOTAL	BEYOND 5 YEARS	PROJECT TOTAL
<b>Expenditure Schedule (000s)</b>										
Equipment, Materials and Supplies			2,279					2,279		2,279
<b>Total</b>			<b>2,279</b>					<b>2,279</b>		<b>2,279</b>

<b>Funding Source Schedule (000s)</b>										
Communications Construction and Conveyance Tax Fund			2,279					2,279		2,279
<b>Total</b>			<b>2,279</b>					<b>2,279</b>		<b>2,279</b>

**Communications Capital Program**  
2018-2022 Proposed Capital Improvement Program

**Detail of Ongoing Non-Construction Projects**

**Communications Maintenance**

**CSA** Strategic Support  
**CSA Outcome** Effective Use of State-of-the-Art Technology  
**Department** Public Works  
**Council Districts** City-wide  
**Appropriation** A7116

**Description** This allocation funds staffing costs associated with the replacement and maintenance of communications equipment.

**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
<b>Expenditure Schedule (000s)</b>							
General Administration							
Construction							
Maintenance, Repairs, Other	483	497	512	527	543	560	2,639
<b>Total</b>	<b>483</b>	<b>497</b>	<b>512</b>	<b>527</b>	<b>543</b>	<b>560</b>	<b>2,639</b>

	FY17 EST	FY18	FY19	FY20	FY21	FY22	5 YEAR TOTAL
<b>Funding Source Schedule (000s)</b>							
Communications Construction and Conveyance Tax Fund	483	497	512	527	543	560	2,639
<b>Total</b>	<b>483</b>	<b>497</b>	<b>512</b>	<b>527</b>	<b>543</b>	<b>560</b>	<b>2,639</b>



**Communications Capital Program**  
2018-2022 Proposed Capital Improvement Program

**Detail of Ongoing Non-Construction Projects**

**Silicon Valley Regional Communications System - Radios**

**CSA** Strategic Support  
**CSA Outcome** Effective Use of State-of-the-Art Technology  
**Department** Public Works  
**Council Districts** City-wide  
**Appropriation** A5260

**Description** This allocation funds the replacement of radio equipment for Police, Fire, and non-public safety City operations in preparation for the Silicon Valley Regional Communications System.

**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
<b>Expenditure Schedule (000s)</b>							
Equipment, Materials and Supplies	500	250	500	500	500	500	2,250
Maintenance, Repairs, Other							
<b>Total</b>	<b>500</b>	<b>250</b>	<b>500</b>	<b>500</b>	<b>500</b>	<b>500</b>	<b>2,250</b>

	FY17 EST	FY18	FY19	FY20	FY21	FY22	5 YEAR TOTAL
<b>Funding Source Schedule (000s)</b>							
Communications Construction and Conveyance Tax Fund	500	250	500	500	500	500	2,250
<b>Total</b>	<b>500</b>	<b>250</b>	<b>500</b>	<b>500</b>	<b>500</b>	<b>500</b>	<b>2,250</b>

**Communications Capital Program**  
2018-2022 Proposed Capital Improvement Program

**Detail of Ongoing Non-Construction Projects**

**Silicon Valley Regional Interoperability Authority - Administration**

**CSA** Strategic Support  
**CSA Outcome** Effective Use of State-of-the-Art Technology  
**Department** Police  
**Council Districts** City-wide  
**Appropriation** A5267

**Description** This allocation funds the City's portion of the administration costs for the Silicon Valley Regional Interoperability Authority.

**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
<b>Expenditure Schedule (000s)</b>							
General Administration	150	158	161	164	167	170	820
<b>Total</b>	<b>150</b>	<b>158</b>	<b>161</b>	<b>164</b>	<b>167</b>	<b>170</b>	<b>820</b>

	FY17 EST	FY18	FY19	FY20	FY21	FY22	5 YEAR TOTAL
<b>Funding Source Schedule (000s)</b>							
Communications Construction and Conveyance Tax Fund	150	158	161	164	167	170	820
<b>Total</b>	<b>150</b>	<b>158</b>	<b>161</b>	<b>164</b>	<b>167</b>	<b>170</b>	<b>820</b>

**Communications Capital Program**  
2018-2022 Proposed Capital Improvement Program

**Detail of Ongoing Non-Construction Projects**

**Silicon Valley Regional Interoperability Authority - Maintenance**

**CSA** Strategic Support  
**CSA Outcome** Safe and Functional Public Infrastructure, Facilities, and Equipment  
**Department** Police  
**Council Districts** City-wide  
**Appropriation** A7333

**Description** This allocation funds contractual services to perform maintenance, monitoring, and service support for regional communications assets such as radio towers and related equipment in order to enhance the inter-agency communication between 14 separate jurisdictions' public safety agencies as part of the Silicon Valley Regional Interoperability Authority.

**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
<b>Expenditure Schedule (000s)</b>							
Maintenance, Repairs, Other	618	618	985	985	974	974	4,536
<b>Total</b>	<b>618</b>	<b>618</b>	<b>985</b>	<b>985</b>	<b>974</b>	<b>974</b>	<b>4,536</b>

	FY17 EST	FY18	FY19	FY20	FY21	FY22	5 YEAR TOTAL
<b>Funding Source Schedule (000s)</b>							
Communications Construction and Conveyance Tax Fund	618	618	985	985	974	974	4,536
<b>Total</b>	<b>618</b>	<b>618</b>	<b>985</b>	<b>985</b>	<b>974</b>	<b>974</b>	<b>4,536</b>