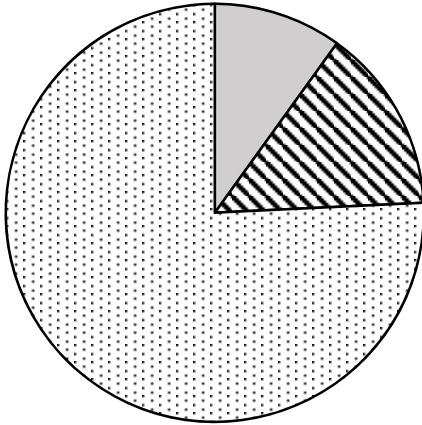


# COMMUNICATIONS

## 2022-2026 Capital Improvement Program

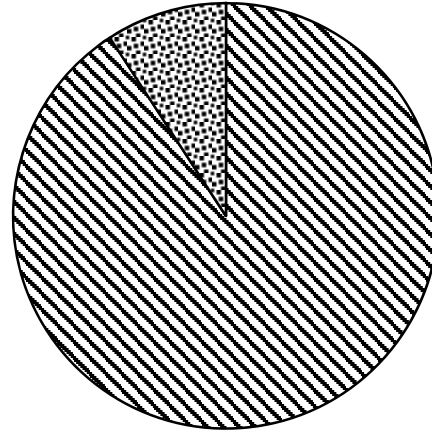
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**2021-2022 Proposed  
Source of Funds**



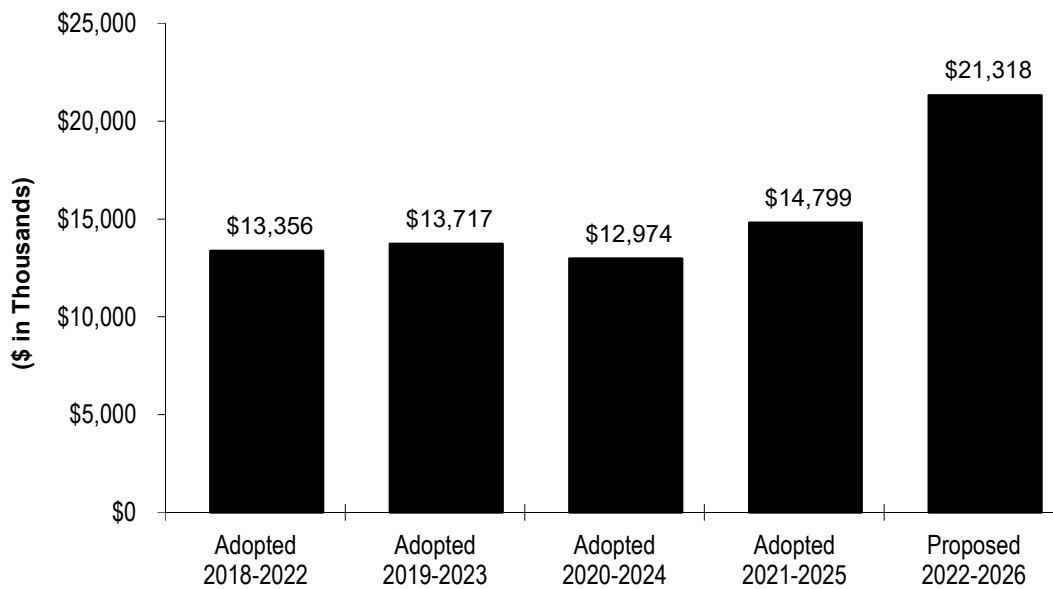
- Beginning Fund Balance
- Taxes, Fees and Charges
- Loans and Transfers

**2021-2022 Proposed  
Use of Funds**



- Non-Construction
- Ending Fund Balance

**CIP History**



# Communications

## 2022-2026 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	30
Base Stations	112
Additional Fixed Receivers	167
<b>Total Legacy Subscribers</b>	<b>2,043</b>
<b>Total SVRCS Subscribers</b>	<b>3,310</b>

The 2022-2026 Proposed CIP provides funding of \$21.3 million of which \$9.2 million is allocated in 2021-2022. 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;
- Strategically plan for future major upgrades and technology changes; and
- Continue to support the Silicon Valley Regional Interoperability Authority (SVRIA).

# Communications

## 2022-2026 Proposed Capital Improvement Program

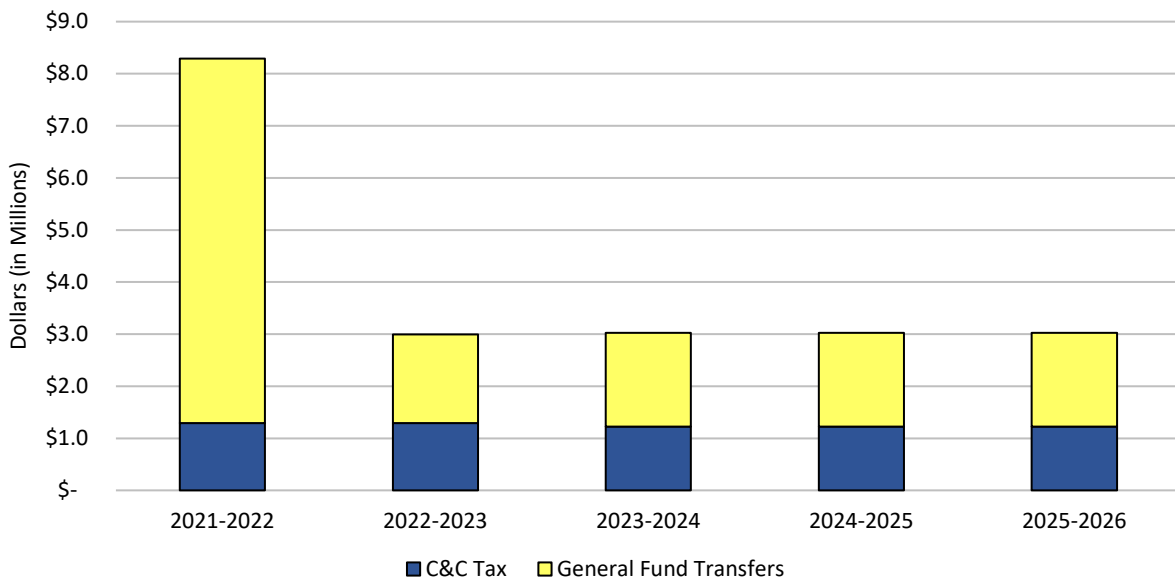
### Overview

#### SOURCES OF FUNDING

The 2021-2022 Proposed Capital Budget estimate for Construction and Conveyance (C&C) taxes is \$38.0 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 remaining 1% generated from a construction tax levied on most types of construction. The 2022-2026 CIP assumes 2021-2022 and 2022-2023 C&C tax revenues of \$38.0 million in both years, and then remain flat at \$36.0 million for each remaining year of the CIP.

Over the five years of the CIP, collections allocated to the Communications Capital Program will total \$6.3 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 in the Summary Information (Section III) of this CIP.

#### Summary of Revenues



Since the C&C Tax collections are insufficient to address the program needs, funding of \$14.1 million from General Fund Transfers is programmed over the 5-year CIP for Communications projects. The General Fund transfers primarily fund contributions to the SVRIA annual maintenance contract, a position in the Police Department that is funded out of this same appropriation, and the purchase of radios and other equipment that operate on the Silicon Valley Regional Communications System (SVRCS). This includes a one-time contribution of \$5.25 million from the General Fund in 2021-2022 for a SVRCS radio replacement project. To the extent that C&C Tax revenues are received above or below projected levels, the transfer from the General Fund to this program will be reduced or increased accordingly.

# Communications

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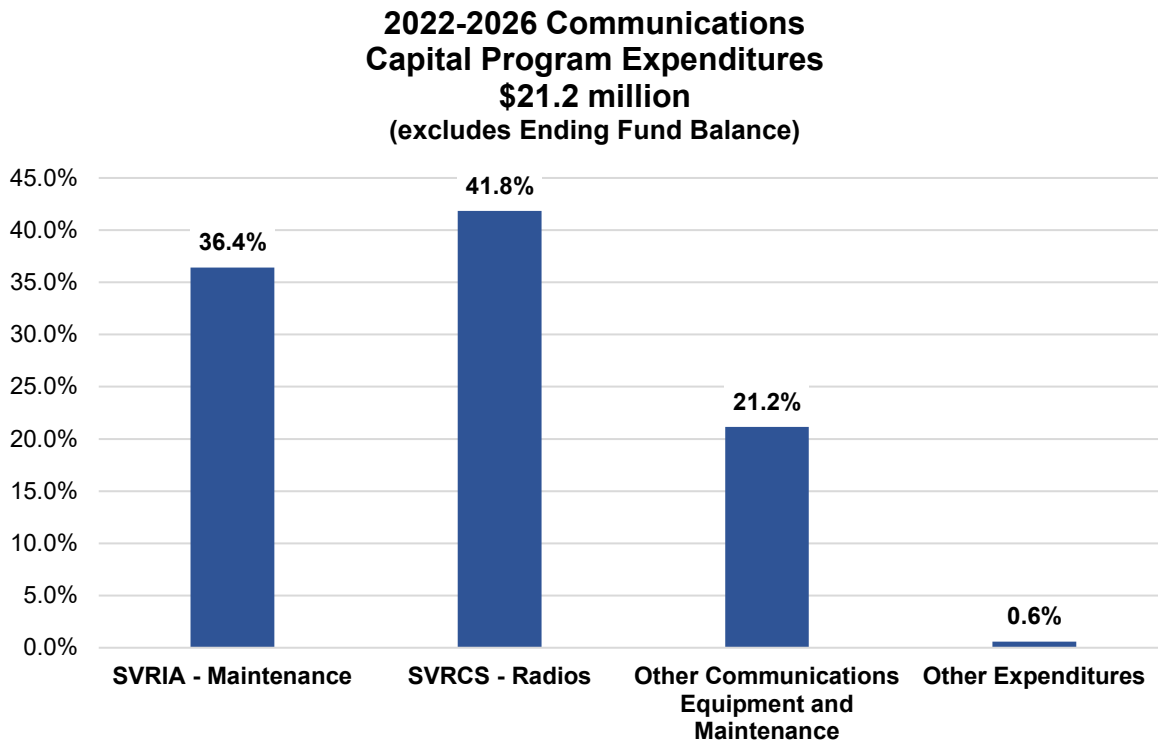
## 2022-2026 Proposed Capital Improvement Program

### Overview

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#### 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.



#### 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, has replaced the existing public safety radio systems currently in use in Santa Clara County with a system that uses the 700/800MHz spectrum. This allows for enhanced data transmissions, additional capacity for mutual aid scenarios, and the ability to record transmissions for training purposes.

# Communications

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## 2022-2026 Proposed Capital Improvement Program

### Overview

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#### PROGRAM HIGHLIGHTS

##### Silicon Valley Regional Communications System (Cont'd.)

The City entered 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. The entire SVRCS was initially anticipated to be complete by December of 2018, but unforeseen delays in the construction and contract negotiations of the final transmission site at Coyote Peak postponed that completion to December of 2019.

The Radio Division within the Public Works Department has replaced all the public safety and some other departments' radios that need to communicate with public safety to SVRCS-capable radios. Police went live on the SVRCS system in mid-March 2020 and Fire went live on July 1, 2020. San Jose currently has 3,310 radios on the SVRCS radio system, 3,102 of which belong to Police and Fire.

In 2019-2020, Motorola announced that the SVRCS radios will have a shorter recommended life span. In the past, radios were reported to last up to 20 years. Now, with enhanced and evolving technology, the SVRIA radios will have a recommended life span of seven to eight years, after which replacement parts and technical support will no longer be available from Motorola for obsolete model types, thus resulting in a continuous radio replacement cycle.

In addition, in 2020-2021, Motorola announced that the APX 7000 (portable) and APX 7500 (mobile) radio models will no longer be supported by the vendor. These radio models will not be serviced by the Motorola Repair Depot after their end-of-service dates. The chart below indicates the years the radios were purchased and the number of radios that will not be supported in the current and upcoming years. This has caused several budgetary constraints on the Radio budget to meet this need.

	APX7000 Portable <b>July 2021</b>	APX7500 Mobile <b>Sept. 2022</b>	APX7000XE/7500HP Portable/Mobile <b>July/Dec. 2023</b>	Grand Total
2012	37	0	38	75
2013	33	324	26	383
2014	167	41	46	254
2015	622	23	414	1,059
2016	40	217	13	270
2017	2	39	0	41
2018	0	0	22	22
Total	901 <sup>i</sup>	644	559	2,104

<sup>i</sup> The Radio Division recently purchased 65 radios to reduce the 901 count to 836.

# Communications

## 2022-2026 Proposed Capital Improvement Program

### Overview

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#### PROGRAM HIGHLIGHTS

##### Silicon Valley Regional Communications System (Cont'd.)

In order to address the service phaseout of radios, the City has reviewed multiple replacement schedule scenarios. The ongoing annual cost to replace all SVRCS radios over a ten-year contract is approximately \$2.1 million at a replacement rate of 319 radios per year. As identified on the previous page, 836 radios will no longer be supported by July 2021 and an additional 1,203 radios will lose support in 2022-2023 and 2023-2024. The 2022-2026 Proposed CIP includes a one-time transfer from the General Fund in the amount of \$5.25 million to address the first wave of unsupported radios. Additional funding of approximately \$8 million is still needed to replace the remaining 1,203 radios that will be unsupported in 2022-2023 and 2023-2024. Though the radios are anticipated to remain functional beyond the end of Motorola's support, over the next two years, the City will need to put in place an ongoing funding strategy to ensure that public safety and emergency communications are properly supported. Ongoing allocations and reserves are budgeted for use in the 2022-2026 Proposed CIP in anticipation of a long-term contract with a radio vendor and parts/maintenance for operating the radio program. The City's Public Safety departments will continue to apply for grant funds to help supplement the replacement cycle of SVRCS radios.

In addition, the existing Legacy Radio System is nearing the end of its useful life. Replacement of this aging infrastructure will be required over the next two to four years. Initial estimates place the cost of a replacement project at approximately \$3.0 million. Currently, the Public Works Department is in the process of hiring a consultant to create a scope and budget plan for the project, for which funding will be revisited in future CIPs.

#### MAJOR CHANGES FROM THE 2021-2025 ADOPTED CIP OPERATING BUDGET IMPACT

The overall size of the Communications Capital Improvement program increased by \$6.5 million from \$14.8 million in the 2021-2025 Adopted CIP to \$21.3 million in the 2022-2026 Proposed CIP primarily due to increased transfer from the General Fund for capital projects and maintenance and administrative increased costs. The following table outlines the most significant changes to project budgets, including new/augmented allocations and reduced/eliminated allocations.

Project	Increase/(Decrease)
Silicon Valley Regional Communications System – Radios	\$6,375,000

#### OPERATING BUDGET IMPACT

It is anticipated that there will be no additional operating and maintenance costs associated with projects included in the 2022-2026 Proposed CIP.

# Communications

## 2022-2026 Proposed Capital Improvement Program

### **Source of Funds (Combined)**

	Estimated						
	2020-2021	2021-2022	2022-2023	2023-2024	2024-2025	2025-2026	5-Year Total
<b>Communications Construction and Conveyance Tax Fund (397)</b>							
<b>Beginning Balance</b>	1,085,279	911,986	841,986	719,986	575,986	372,986	911,986*
<b>Reserve for Encumbrance</b>	67,006						
<b>Transfers and Reimbursements</b>							
Communications Projects - General Fund	1,250,000	6,950,000	1,700,000	1,800,000	1,800,000	1,800,000	14,050,000
<b>TOTAL Transfers and Reimbursements</b>	<b>1,250,000</b>	<b>6,950,000</b>	<b>1,700,000</b>	<b>1,800,000</b>	<b>1,800,000</b>	<b>1,800,000</b>	<b>14,050,000</b>
<b>Revenue from Use of Money and Property</b>							
Interest Income	58,000	20,000	20,000	20,000	20,000	20,000	100,000
<b>TOTAL Revenue from Use of Money and Property</b>	<b>58,000</b>	<b>20,000</b>	<b>20,000</b>	<b>20,000</b>	<b>20,000</b>	<b>20,000</b>	<b>100,000</b>
<b>Construction &amp; Conveyance Tax</b>							
C&C Tax Proceeds	1,360,000	1,292,000	1,292,000	1,224,000	1,224,000	1,224,000	6,256,000
<b>TOTAL Construction &amp; Conveyance Tax</b>	<b>1,360,000</b>	<b>1,292,000</b>	<b>1,292,000</b>	<b>1,224,000</b>	<b>1,224,000</b>	<b>1,224,000</b>	<b>6,256,000</b>
<b>Total Communications Construction and Conveyance Tax Fund (397)</b>	<b>3,820,285</b>	<b>9,173,986</b>	<b>3,853,986</b>	<b>3,763,986</b>	<b>3,619,986</b>	<b>3,416,986</b>	<b>21,317,986*</b>
<b>TOTAL SOURCES</b>	<b>3,820,285</b>	<b>9,173,986</b>	<b>3,853,986</b>	<b>3,763,986</b>	<b>3,619,986</b>	<b>3,416,986</b>	<b>21,317,986*</b>

\* The 2022-2023 through 2025-2026 Beginning Balances are excluded from the Five-Year Total Source of Funds to avoid multiple counting of the same funds.

# Communications

## 2022-2026 Proposed Capital Improvement Program

### **Use of Funds (Combined)**

	Estimated 2020-2021	2021-2022	2022-2023	2023-2024	2024-2025	2025-2026	5-Year Total
<b><u>Communications</u></b>							
Communications Equipment Replacement and Upgrade	100,398	100,000	100,000	100,000	100,000	100,000	500,000
Communications Maintenance	780,426	760,000	777,000	794,000	816,000	839,000	3,986,000
Silicon Valley Regional Communications System - Radios	529,182	5,975,000	725,000	725,000	725,000	725,000	8,875,000
Silicon Valley Regional Interoperability Authority - Maintenance	1,437,000	1,472,000	1,507,000	1,544,000	1,581,000	1,620,000	7,724,000
<b>General Non-Construction - Communications</b>	<b>2,847,006</b>	<b>8,307,000</b>	<b>3,109,000</b>	<b>3,163,000</b>	<b>3,222,000</b>	<b>3,284,000</b>	<b>21,085,000</b>
<b>Communications - Non Construction</b>	<b>2,847,006</b>	<b>8,307,000</b>	<b>3,109,000</b>	<b>3,163,000</b>	<b>3,222,000</b>	<b>3,284,000</b>	<b>21,085,000</b>
Capital Program and Public Works Department Support Service Costs		1,000	1,000	1,000	1,000	1,000	5,000
<b>Allocations</b>		<b>1,000</b>	<b>1,000</b>	<b>1,000</b>	<b>1,000</b>	<b>1,000</b>	<b>5,000</b>
City Hall Debt Service Fund	3,000	4,000	4,000	4,000	4,000	4,000	20,000
<b>Transfers to Special Funds</b>	<b>3,000</b>	<b>4,000</b>	<b>4,000</b>	<b>4,000</b>	<b>4,000</b>	<b>4,000</b>	<b>20,000</b>
General Fund - Interest Income	58,293	20,000	20,000	20,000	20,000	20,000	100,000
<b>Transfers to the General Fund</b>	<b>58,293</b>	<b>20,000</b>	<b>20,000</b>	<b>20,000</b>	<b>20,000</b>	<b>20,000</b>	<b>100,000</b>
<b>Transfers Expense</b>	<b>61,293</b>	<b>24,000</b>	<b>24,000</b>	<b>24,000</b>	<b>24,000</b>	<b>24,000</b>	<b>120,000</b>
<b>Total Expenditures</b>	<b>2,908,299</b>	<b>8,332,000</b>	<b>3,134,000</b>	<b>3,188,000</b>	<b>3,247,000</b>	<b>3,309,000</b>	<b>21,210,000</b>
Ending Fund Balance	911,986	841,986	719,986	575,986	372,986	107,986	107,986*
<b>TOTAL</b>	<b>3,820,285</b>	<b>9,173,986</b>	<b>3,853,986</b>	<b>3,763,986</b>	<b>3,619,986</b>	<b>3,416,986</b>	<b>21,317,986*</b>

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\* The 2021-2022 through 2024-2025 Ending Balances are excluded from the Five-Year Total Use of Funds to avoid multiple counting of the same funds.



**Communications Capital Program**  
**2022-2026 Proposed Capital Improvement Program**  
**Detail of Ongoing Projects**

**Communications Equipment Replacement and Upgrade**

<b>CSA Outcome</b>	Effective Use of State-of-the-Art Technology	<b>Council Districts</b>	City-wide
<b>Department Owner</b>	Public Works	<b>Appropriation</b>	A4056
<b>Description</b>	This allocation funds the replacement and upgrade of communications equipment based upon useful life expectancy.		

	FY21 Budget	FY21 EST	FY22	FY23	FY24	FY25	FY26	5 Year Total
<b>Expenditure Schedule (000s)</b>								
Construction	0	0						
Equipment, Materials and Supplies	100	100	100	100	100	100	100	500
Maintenance, Repairs, Other								
<b>Total</b>	<b>100</b>	<b>100</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 (397)	100	100	100	100	100	100	100	500
<b>Total</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>500</b>

**Communications Maintenance**

<b>CSA Outcome</b>	Effective Use of State-of-the-Art Technology	<b>Council Districts</b>	City-wide
<b>Department Owner</b>	Public Works	<b>Appropriation</b>	A7116
<b>Description</b>	This allocation funds staffing costs associated with the maintenance of communications equipment.		

	FY21 Budget	FY21 EST	FY22	FY23	FY24	FY25	FY26	5 Year Total
<b>Expenditure Schedule (000s)</b>								
General Administration	37	37						
Maintenance, Repairs, Other	743	743	760	777	794	816	839	3,986
<b>Total</b>	<b>780</b>	<b>780</b>	<b>760</b>	<b>777</b>	<b>794</b>	<b>816</b>	<b>839</b>	<b>3,986</b>

<b>Funding Source Schedule (000s)</b>								
Communications Construction and Conveyance Tax Fund (397)	780	780	760	777	794	816	839	3,986
<b>Total</b>	<b>780</b>	<b>780</b>	<b>760</b>	<b>777</b>	<b>794</b>	<b>816</b>	<b>839</b>	<b>3,986</b>

**Communications Capital Program**  
**2022-2026 Proposed Capital Improvement Program**  
**Detail of Ongoing Projects**

**Silicon Valley Regional Communications System - Radios**

<b>CSA Outcome</b>	Effective Use of State-of-the-Art Technology	<b>Council Districts</b>	City-wide
<b>Department Owner</b>	Public Works	<b>Appropriation</b>	A5260
<b>Description</b>	This allocation funds the replacement of radio equipment for Police, Fire, and non-public safety City operations using the Silicon Valley Regional Communications System. Additional one-time funding of \$5.25 million was included in 2021-2022 to replace SVRCS radios that will be unsupported beginning July 2021.		

	FY21 Budget	FY21 EST	FY22	FY23	FY24	FY25	FY26	5 Year Total
<b>Expenditure Schedule (000s)</b>								
Equipment, Materials and Supplies	500	500	5,975	725	725	725	725	8,875
Maintenance, Repairs, Other	29	29						
<b>Total</b>	<b>529</b>	<b>529</b>	<b>5,975</b>	<b>725</b>	<b>725</b>	<b>725</b>	<b>725</b>	<b>8,875</b>

	FY21 Budget	FY21 EST	FY22	FY23	FY24	FY25	FY26	5 Year Total
<b>Funding Source Schedule (000s)</b>								
Communications Construction and Conveyance Tax Fund (397)	529	529	5,975	725	725	725	725	8,875
<b>Total</b>	<b>529</b>	<b>529</b>	<b>5,975</b>	<b>725</b>	<b>725</b>	<b>725</b>	<b>725</b>	<b>8,875</b>

**Silicon Valley Regional Interoperability Authority - Maintenance**

<b>CSA Outcome</b>	Effective Use of State-of-the-Art Technology	<b>Council Districts</b>	City-wide
<b>Department Owner</b>	Police	<b>Appropriation</b>	A7333
<b>Description</b>	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 15 separate jurisdictions' public safety agencies as part of the Silicon Valley Regional Interoperability Authority (SVRIA). In addition, this allocation provides staffing resources to manage the City's participation in the SVRIA.		

	FY21 Budget	FY21 EST	FY22	FY23	FY24	FY25	FY26	5 Year Total
<b>Expenditure Schedule (000s)</b>								
Maintenance, Repairs, Other	1,437	1,437	1,472	1,507	1,544	1,581	1,620	7,724
<b>Total</b>	<b>1,437</b>	<b>1,437</b>	<b>1,472</b>	<b>1,507</b>	<b>1,544</b>	<b>1,581</b>	<b>1,620</b>	<b>7,724</b>

	FY21 Budget	FY21 EST	FY22	FY23	FY24	FY25	FY26	5 Year Total
<b>Funding Source Schedule (000s)</b>								
Communications Construction and Conveyance Tax Fund (397)	1,437	1,437	1,472	1,507	1,544	1,581	1,620	7,724
<b>Total</b>	<b>1,437</b>	<b>1,437</b>	<b>1,472</b>	<b>1,507</b>	<b>1,544</b>	<b>1,581</b>	<b>1,620</b>	<b>7,724</b>