

FISCAL YEAR 2025

# PROPOSED CAPITAL BUDGET

- ▷ **CLIMATE CHANGE** AND THE NATURAL ENVIRONMENT: PROTECTION & ADAPTATION
- ▷ **COMMUNITY HEALTH, SAFETY, WELLNESS & BELONGING**
- ▷ **HOUSING** FOR SOCIAL AND ECONOMIC BALANCE
- ▷ **ECONOMIC** DEVELOPMENT & TRANSITION



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**PALO  
ALTO**



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# Fiscal Year 2025 Proposed Capital Budget

## City Council

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## CITY OF PALO ALTO

The government of the City of Palo Alto exists to promote and sustain a superior quality of life in Palo Alto. In partnership with our community, our goal is to deliver cost-effective services in a personal, responsive and innovative manner.



# OUR VALUES



### Quality

Superior delivery of services

### Courtesy

Providing service with respect and concern

### Efficiency

Productive, effective use of resources

### Integrity

Straight-forward, honest and fair relations

### Innovation

Excellence in creative thought and implementation



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# OVERVIEW





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# TRANSMITTAL LETTER

May 1, 2024

To the Honorable Mayor and City Council

2025 Fiscal Year Proposed Operating & Capital Budget Transmittal

Honorable Mayor and Council Members:

In accordance with the City Charter, I am presenting the City of Palo Alto's Fiscal Year 2025 Proposed Operating Budget and Fiscal Year 2025 Proposed Capital Budget along with the 2025- 2029 Capital Improvement Plan (CIP).

This proposed budget represents a continuation of the significant investments made by the Council last year while reflecting a need to manage investments with cautious optimism, focusing on organizational resilience, and providing innovative service delivery resulting in a total budget of \$1.03 billion including the FY 2025 capital budget of \$359.7 million and a Capital Plan of \$1.6 billion over the five-year CIP. The City's General Fund Budget of \$303.5 million further invests in high-quality services for the community and advances City Council priorities.

## **Reflecting on Key Milestones**

Palo Alto has made significant strides in restoring services cut during 2020, because of the pandemic. Reinvesting in community needs such as public safety services, affordable housing and unhoused services, and transportation and grade separation priorities are a direct result of voter support of Measure L and K, which will continue to be critical as we look ahead towards the future. This coming year, the City and community will celebrate the opening of the new and seismically-resilient Public Safety Building; continue construction of Palo Alto Homekey's innovative interim housing; make progress on infrastructure investments at the Regional Water Quality Control Plant, Fire Station 4 replacement and modernization of the City's electrical grid; and implement critical elements of the City's Sustainability & Climate Action Plan.



### **Setting the path forward through fiscal stability, innovative services, and organizational resilience**

The proposed budget balances continued unknowns that could impact the City's fiscal health such as economic uncertainty, plateauing inflation, and supply chain impacts and invests in organizational resilience to ensure our ability to withstand and recover from challenges through targeted resources for workforce attraction and retention. From the pandemic, stagflation, economic uncertainty, to unprecedented weather events, the City and community have demonstrated an ability to adjust and stay focused on advancing priorities and addressing changing community needs. Generational investments in electrification, transportation safety at railroad grade crossings, and fiber to the premises are key initiatives that continue to make tremendous strides. This budget provides significant investments in innovative services such as affordable housing and homeless services and supplemental funding for on-demand transportation services through Palo Alto Link. Rather than simply bouncing back to pre-pandemic services, this budget invests in service delivery for a sustainable future. This budget continues to reflect our ability to bounce forward.

The FY 2025 Proposed Budget continues the two-year budget balancing strategy from FY 2024. FY 2025 reflects cautious optimism as inflation and other economic, global and labor market factors impact both the pace of revenue and expense growth. Through this budget process, the City will set a course for near- and mid-term service levels.

Looking beyond this two-year budget strategy, we expect to continue facing deficits with our current Long-Range Financial Forecast ranging from \$3.4 million in FY 2027 down to \$0.5 million in FY 2029. A measured approach to ongoing costs is needed to ensure that current one-time surpluses are managed in a way that will not exacerbate future deficits. With this approach in mind, the proposed budget limits ongoing spending, sets aside higher reserve levels, fully funds anticipated legal liabilities, and maintains proactive investment in long-term liabilities.

### **Reinvesting in Services through One-time Funds, While Continuing to Mitigate Risks**

Investing in long-term service delivery and capital improvement and mitigating risk through conservative fiscal strategies such as a prudent budget stabilization reserve continue in this proposed budget. The importance of stability for the organization remains a core value as staff works to navigate the difficulty of financial forecasting in this environment.

Although staff remains optimistic and continues to recommend investment, continued economic uncertainty, inflation, and predictions of economic stagnation loom ahead. To balance the recommended service increases, this budget carries a Budget Stabilization Reserve (BSR) of \$55.0 million at 18.8%. This is within the Council approved range of 15-20% of General Fund expenses and above the target level of 18.5% by \$1.0 million.

The Council proactively set aside funds in the FY 2023 Mid-Year Budget Review and established an Uncertainty Reserve to bridge the funding needed to address community service needs in FY 2024 and FY 2025. The FY 2025 budget relies on \$6.9 million from the Budget Uncertainty Reserve, leaving a balance of \$4.7

million, including using \$2.0 million from the BSR to increase the Uncertainty Reserve to fund shortfalls expected in FY 2026 (\$9.7 million), as part of the multi-year budget balancing strategy.

It also mitigates risks by addressing long-term liabilities with the prudence of the Retiree Benefit Policy, that proactively funds pension liability at the lower 5.3% discount rate to accelerate the funding goals, results in reduced liability, manages costs and ensures fiscal stability.

While the FY 2025 Budget reflects a measured approach to addressing future deficits and provides a comprehensive portfolio of high-quality services, the Council may consider additional investments in services and capital improvements. Among various funding resources, prior discussions suggest reviewing the BSR or Gas Utility Equity Transfer. Setting the BSR at 18.5% would provide an additional \$1.0 million, while the Utility Equity Transfer would provide an additional \$1 million of investments, while accompanied by a gas rate increase.

The use of one-time funding and reserves support near-term funding priorities and bridge projected shortfalls as part of the FY 2025 budget development, with the anticipation that in the longer term the economic recovery and a more diverse revenue base will help to stabilize the fiscal outlook.

## **FY 2025 Proposed Budget Highlights**

The Proposed FY 2025 Budget of \$1.03 billion reflects a 2.7% increase over the FY 2024 Adopted Budget, primarily driven by a 3.5% operating expense increase plus a 1.2% increase in the City's capital improvement program. Funding for the Capital Budget of \$359.7 million includes \$148.0 million in reappropriations from FY 2024 to FY 2025 to continue work on ongoing projects.

This budget recommends Citywide staffing levels to increase by 20.00 FTE for a total authorized staffing of 1,083.10 FTE in FY 2025. The City was able to authorize total staffing back to pre-pandemic levels in the FY 2024 Adopted Budget. Additional staffing recommended in FY 2025 will support high-quality services across the City as well as expansion of programs and services for City Council priorities.

## **City Council Priority Objectives Investments**

The proposed budget advances the City Council's annual priorities and objectives by investing in key actionable and time bound efforts that deliver community services, looks toward the future by addressing climate action goals, and furthers critical needs in the areas of housing, infrastructure, community health and safety and much more. In January of this year, the City Council selected the following 2024 priorities: Economic Development & Transition, Climate Change & Natural Environment – Protection & Adaptation, Housing for Social & Economic Balance, and Community Health, Safety, Wellness & Belonging. After these four Council priorities were selected, the Council adopted 78 specific objectives to advance the priorities in 2025. This clarity and prioritization provides the foundation for the budget strategies contained in the FY 2025 Proposed Budget.

## Operating Budget Recommendations by City Service Area

In FY 2024, staffing levels increased by 45.25 FTE for a total authorized staffing of 1,063.10 FTE, which is above pre-pandemic levels. The FY 2025 proposed budget recommends increasing staffing levels by 20.00 FTE for a total authorized staffing of 1,083.10. The FY 2025 budget funds these positions, enhances organizational resilience and leads innovative services, while balancing financial stability, as outlined by City Service Area:

- **Community & Library Services:** Additional resources to support overnight warming locations (OWL), summer concert series, adult and special interest classes, and the Arts Center. Continues funding resources for extended hours at all 5 branches and numbers of open days per branch, per week at Mitchell Park (7 days), Rinconada (7 days), Children's (6 days) and Downtown (5 days) and College Terrace (5 days). Funding City programming at the 445 Bryant Street facility, pending separate Council direction.
- **Public Safety:** Upstaffing Fire Engine 62 at Fire Station #2 to full-service with current staffing via overtime, bringing firefighting capacity from four stations to five. Enhancing organizational resilience with an additional Police Lieutenant offset by deletion of a Community Service Officer, reclassification of Property & Evidence Technicians and realignment of Fire Prevention reporting structure. Additional resources for police and fire equipment replacements and vehicles.
- **Planning, Transportation & Infrastructure:** Supplemental funding to continue Palo Alto Link. Investments in development center staffing to support economic recovery efforts, housing for social and economic balance, and Safe Routes to School. Increasing resources for sustainability climate action plan (S/CAP) programming, and community awareness and climate implementation outreach. Increasing resources to support capital investments, water cross connection control program, advanced metering infrastructure (AMI) meter project, and electric grid modernization.
- **Internal Support & Administration:** Maintaining proactive funding of long-term liabilities (pension and retiree medical) at a more conservative calculation for the normal cost (5.3% discount rate) in alignment with the revised Retiree Benefit Policy. Fully funding the adopted labor agreements for all labor groups. Reserving funds for property investments within the City. Supporting organizational resilience with funding for recruitment manager to augment talent recruitment and acquisition, employee childcare pilot program (year 2), management fellow, grants administration, and information technology staffing.

## Capital Budget Recommendations

The proposed budget continues progress on the City Council 2014 Infrastructure Plan and additional projects that help advance continued infrastructure replacement, improvements and repairs. The FY 2025 capital budget advances critical projects that furthers innovative services and enhances organizational resilience, while balancing financial stability.

Key investments include:

- 2014 Council Infrastructure Plan projects: completion of the Public Safety Building in Fall 2024, award construction of the Fire Station 4 replacement project

- Regional Water Quality Control Plant (RWQCP) facility upgrades
- Electric Operations office facility improvements
- Contingency plan to fund the Newell Road San Francisquito Creek replacement project
- Park improvements at Cameron, Peers, Ramos, Robles, and Rinconada Parks, El Camino Park turf replacement, Foothills Nature Preserve improvements, Boulware Park update and expansion, and new park restrooms
- Recognizing investments in grade separation projects including Meadow Drive, Charleston Road, and Churchill Avenue and continuing quiet zone study at Palo Alto Avenue
- Planning for construction costs for train crossing safety improvements (partially funded by Measure K proceeds)
- Improving traffic intersection accessibility and implementing the Automated Traffic Signal Performance Measures (ATSPM) at Embarcadero/E. Bayshore, San Antonio Road/Middle Field, Stanford/Escondido and Meadow/Cowper.
- Funding construction of the Homekey Palo Alto interim housing
- Completing the Cubberley Gym HVAC system replacement and continuing scheduled roof replacements at the Cubberley Community Center
- Improving 445 Bryant Street facility for activation
- Planning for City Council Chambers technology upgrade
- Upgrading infrastructure for stormwater systems drain pipes, wastewater collection main and treatment systems, and water mains.
- Planning for electric grid modernization and deploy phase 1 pilot of fiber to the premises/dark fiber rebuild

## Stakeholder engagement

In May and June, several days of Finance Committee budget hearings, Council discussions, and a Community Budget Informational Session are scheduled to review, discuss, and consider revisions to the Proposed Budget documents before they are adopted by the Council. Community members are encouraged to join these discussions to help inform decisions that the City Council considers for adoption.

## In Closing

While there is continued unknowns and uncertainties ahead, the FY 2025 Proposed Budget offers the Council, City Staff and the community a sense of optimism as we look forward to 2025. This budget invests in community priorities and continues robust City services that the community expects through balanced conservative fiscal strategies. This budget makes solid progress towards addressing Council's 2024 Priorities and priority objectives. It also enhances organizational resilience, supports innovative services, while



## TRANSMITTAL LETTER

balancing financial stability. I look forward to the budget conversations with the City Council and our community over the next several months.

### **Acknowledgments**

I would like to thank the City Council for your leadership and our Executive Leadership Team and the entire staff of the City for providing outstanding services to our community. The Palo Alto community should be proud of your leadership and commitment to service.

A citywide budget requires countless hours of teamwork, collaboration, and patience to produce. I would like to offer special thanks to the dedicated Office of Management and Budget Team - Paul Harper, Kayla Shapiro, Peter Hoang, Naomi Hsu, Katie Lee, Rene Escobar-Mena, Alyssa Ching, Chaitali Paliwal, and Joshua Martinez. This team's dedication, expertise, and willingness to continue to adapt to evolving circumstances is a testament to their commitment to this organization and to the community. I also thank our Executive Leadership Team especially our Department Directors and their teams who worked on the recommendations and materials to respond to the City Council and community priorities and the leadership they have demonstrated in the information contained in these policy documents.

Respectfully Submitted,



Ed Shikada  
City Manager

### **Online Resource to Learn More About the City Budget**

Learn about City Council Priorities and Objectives at  
[www.cityofpaloalto.org/councilpriorities](http://www.cityofpaloalto.org/councilpriorities)

Join the Budget Conversation at [www.cityofpaloalto.org/budget](http://www.cityofpaloalto.org/budget)

# ATTACHMENT A: CAPITAL IMPROVEMENT FUNDS

The Capital Improvement Funds category includes two funds, the Capital Improvement Fund and the Cubberley Property Infrastructure Fund. This fund category is the largest section of the 2025-2029 Capital Improvement Program (CIP) in terms of cost. At a cost of \$845.2 million spread over 107 projects, the Capital Improvement Funds category consists of capital projects that do not directly benefit the Enterprise Funds, support technology improvements, or provide vehicle maintenance and replacement. Capital projects funded in the Capital Improvement Fund account for repairs to the City's roads, parks and open space, and most City facilities. The Cubberley Property Infrastructure Fund supports repair and renovation of facilities at the Cubberley Community Center.

## **SOURCES OF FUNDING**

The Capital Improvement Fund is supported primarily through two categories of sources from the General Fund: a base amount and dedicated funding from Transient Occupancy Tax (TOT) revenue. The TOT revenue was designated by City Council policy to fund the Infrastructure Plan by voter-approved TOT rate increases totaling 3.5 percent (the first 2.0 percent in 2014 and the second 1.5 percent in 2018), and all TOT revenue from new hotels built after January 2015 is transferred annually to support capital investments. Beginning in FY 2013 and in a typical year, the base transfer is increased annually by an amount equal to the change in the consumer price index (CPI). Prior to the impacts of the COVID-19 pandemic, the total transfers from the General Fund were approximately \$30.0 million. However, as the pandemic unfolded, efforts were made to mitigate the economic impacts and the total transfer in FY 2021 was reduced to a low of \$8.5 million. The economy has slowly recovered over the past several years, and current estimates indicate that the total transfer from the General Fund to the Capital Improvement Fund will increase to \$26.1 million by the end of FY 2024. Of this amount, \$12.5 million is the base transfer, \$1.5 million is interest earnings, and \$12.1 million is from dedicated TOT revenue.

In January 2024, the City Council adopted the 2025-2034 Long-Range Financial Forecast (LRFF) and the financial balancing policies for staff to use in development of this budget. The LRFF continued the prior-year direction to gradually restore the base General Fund transfer to pre-pandemic levels by FY 2026 (\$16.7 million). Following a rebound in FY 2022, TOT revenue has continued to grow, and this upward trend is expected to continue throughout the five-year CIP. In FY 2025, the base transfer amount is estimated to be \$13.7 million, interest earnings are estimated to be \$2.0 million, and dedicated TOT funding is estimated to be \$13.7 million, for a total transfer of \$29.4 million. Over the five-year CIP, the total General Fund transfer for capital infrastructure is planned to gradually increase to \$36.9 million by FY 2029.

## CAPITAL IMPROVEMENT FUNDS

In addition to transfers from the General Fund at the fund level, some projects in the Capital Improvement Fund receive direct transfers from the General Fund. Annually, a combined \$1.0 million of Utility Users Tax is transferred into the Sidewalk Repairs (PO-89003) (\$0.6 million) and Street Maintenance (PE-86070) (\$0.4 million) projects. In the 2025-2029 CIP, two rail grade separation projects, Meadow Drive and Charleston Road (PL-24000) and Churchill Avenue (PL-24001), will receive direct transfers of Measure K Business Tax revenue from the General Fund, with a combined \$1.5 million in FY 2025 and \$13.5 million over the five years of the CIPs.

Other major sources of funding for the Capital Improvement Fund include grants from federal, state, and local agencies, and transfers from the Stanford University Medical Center (SUMC) development agreement, the Gas Tax Fund, and various impact fee funds and enterprise funds. Further discussion of these revenue sources can be found in the Summary of CIP Program Revenue section of this document.

The Cubberley Property Infrastructure Fund is funded through a transfer from the General Fund based on the November 2014 change to the lease with the Palo Alto Unified School District (PAUSD). The revised lease reallocated an ongoing annual \$1.8 million "Covenant Not to Develop" payment, which had previously gone to the school district, to establish the Cubberley Property Infrastructure Fund for the purpose of supporting infrastructure repair and renovation for the Cubberley Community Center. Due to significant service delivery impacts from COVID-19, a new five-year lease agreement was negotiated with PAUSD, and began on July 1, 2020. The new agreement reduced the space leased by the City at the Cubberley facility, however, operating and maintenance costs continue at current levels for the City-owned portion of the property, with reimbursements from PAUSD for its share of the maintenance and repair work performed by the City.

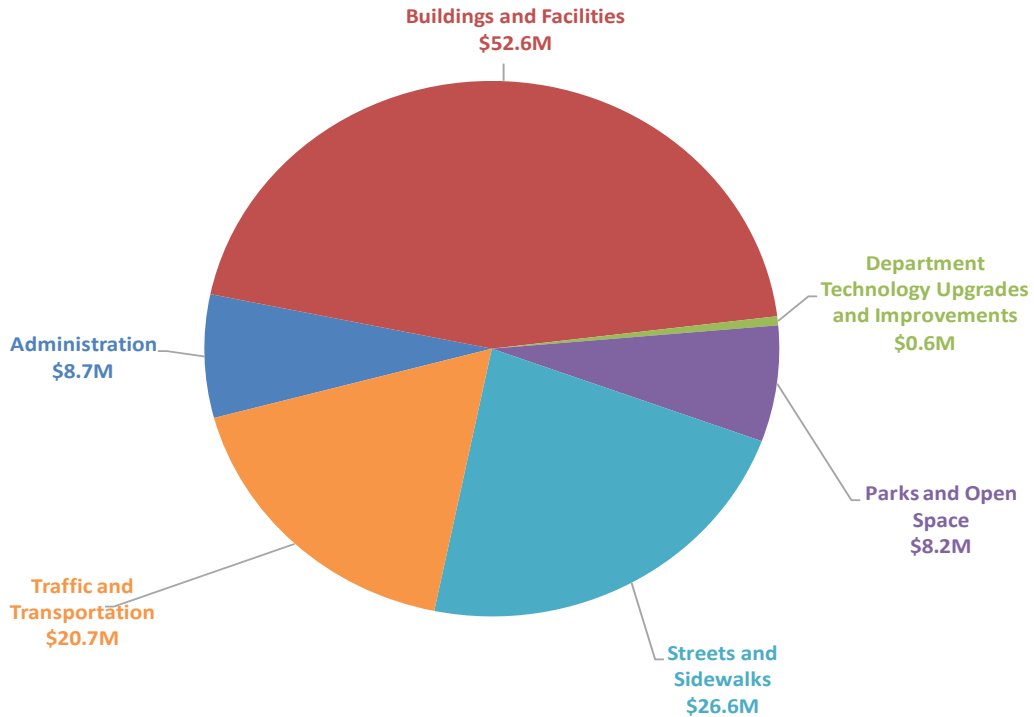
### EXPENDITURES

The 2025-2029 CIP for the Capital Improvement Fund includes 101 projects at a cost of \$837.8 million, including debt service payments, with \$117.5 million budgeted in FY 2025, of which \$56.2 million comes from previously-allocated funds reappropriated from FY 2024 for projects continuing into FY 2025. When developing the five-year CIP for the Capital Improvement Fund, the main goals are 1) to keep a positive Infrastructure Reserve (available fund balance) above \$3.0 million annually in order to be able to address emergency needs; 2) to ensure that projects that address health and safety issues are programmed and funded as early in the CIP as possible; and 3) to balance projects and staff workload capacity across the five-year plan in order to ensure that projects are able to be completed as planned. Due to funding reductions in this fund in prior fiscal years, several projects were deferred or had their scope reduced. The impacts from these actions contributed to a growing backlog of work for the City's infrastructure. The proposed CIP continues to address the backlog, however, it is important to note that as labor and material costs continue to rise annually, catching up on deferred maintenance will become increasingly expensive. The City's commitment to addressing the maintenance backlog, and the establishment of a reserve for debt service that will be described in more detail below, are estimated to cause the Infrastructure Reserve to fall below the target balance of \$3.0 million in FY 2025. However, the fund balance is anticipated to return to the recommended level in FY 2026.

# CAPITAL IMPROVEMENT FUNDS

The Capital Improvement Fund budget is divided into six categories: Administration, Buildings and Facilities, Department Technology Upgrades and Improvements, Parks and Open Space, Streets and Sidewalks, and Traffic and Transportation. Additional details on each of these categories can be found in their respective Capital Improvement Fund overview sections.

## 2025 CAPITAL IMPROVEMENT FUND EXPENDITURES BY CATEGORY \$117.5 MILLION



## CITY COUNCIL INFRASTRUCTURE PLAN

In 2013 the City Council established the Council Infrastructure Committee and tasked the Committee with identifying a funding plan for infrastructure projects requiring funding above the base annual General Fund transfer to the Capital Improvement Fund. After meeting regularly for more than a year, the Committee arrived at a list of nine recommended projects and an associated funding plan which was approved by the City Council in June 2014. At the time the plan was adopted, the total cost of Infrastructure Plan (IP) projects was estimated at \$125.8 million and did not include staff salary and benefit costs. It is important to note that project costs for two of the projects only included the amounts that were unfunded in June 2014. As part of the 2020-2024 CIP, a tenth project was approved to be added to the Infrastructure Plan: the Downtown Automated Parking Guidance Systems, Access Controls & Revenue Collection Equipment project (PL-15002).

Based on known estimates and including the tenth project, the total cost of the Infrastructure Plan is currently \$272.8 million with \$29.1 million (10.7%) programmed in the 2025-2029 CIP. These costs are detailed

## CAPITAL IMPROVEMENT FUNDS

by project in the table below. The \$2.2 million increase in total cost from last year's estimate of \$270.7 million is due to a \$2.9 million rise in costs for implementing the Fire Station 4 Replacement project (PE-18004) and \$0.6 million of cost increases more generally for other projects not yet completed, partially offset by a \$1.3 million transfer of funds from the Bicycle and Pedestrian Transportation Plan Implementation project (PL-04010) to the Churchill Avenue Enhanced Bikeway project (PL-14000) for construction cost escalation on work that aligns with the scope of PL-04010.

Project Name (Number)	2025-2029 CIP Budget	Total Project Budget
Public Safety Building (PE-15001)	\$0.0M	\$118.6M
California Avenue Area Parking Garage (PE-18000)	\$0.7M	\$50.2M
Highway 101 Pedestrian/Bicycle Overpass (PE-11011)	\$0.0M	\$23.7M
Charleston/Arastradero Corridor Project (PE-13011)	\$0.0M	\$21.6M
Fire Station 4 Replacement (PE-18004)	\$15.5M	\$18.3M
Bicycle and Pedestrian Transportation Plan Implementation (PL-04010)	\$3.8M	\$13.8M
Fire Station 3 Replacement (PE-15003)	\$0.0M	\$10.6M
Downtown Parking Garage (PE-15007)	\$5.7M	\$7.2M
Downtown Automated Parking Guidance Systems (PL-15002)	\$0.1M	\$5.2M
Byxbee Park Completion (PE-18006)	\$3.3M	\$3.7M
<b>Total</b>	<b>\$29.1M</b>	<b>\$272.8M</b>

All ten projects are scheduled to be completed within the 2025-2029 CIP. The New Downtown Parking Garage project (PE-15007) had been on hold, but on December 11, 2023 (Report #2309-2043), the City Council gave direction for the project to resume. Six IP projects have been or are scheduled to be completed by the end of FY 2025, and a seventh will be in process:

- The Fire Station #3 Replacement (PE-15003) was opened in Spring 2020.
- Construction on phases 1 and 2 of the Charleston/Arastradero Corridor project (PE-13011) were completed in December 2019. The final phase will be completed by Spring 2024.
- The California Avenue Garage (PE-18000) was opened in December 2020.
- The Highway 101 Pedestrian/Bicycle Overpass (PE-11011) was opened in Fall 2021.
- The construction contract for the New Public Safety Building project (PE-15001) was awarded in early 2021 with completion anticipated in Fall 2024.
- The Downtown Automated Parking Guidance Systems project (PL-15002) started design in Summer 2023 and is expected to be completed in Winter 2024.
- The Fire Station #4 Replacement (PE-18004) started design in June 2022 with anticipated construction contract award in Fall 2024 and completion in Summer 2026.

Additional information on the status of all IP projects can be found on the City's website: [www.infrastructure.cityofpaloalto.org/](http://www.infrastructure.cityofpaloalto.org/).

## CAPITAL IMPROVEMENT FUNDS

Funding Source	2025-2029 CIP Funding	Total Project Funding
Certificates of Participation (COP) Bond Proceeds	\$0.0M	<b>\$144.0M</b>
Stanford University Medical Center (SUMC) Development Agreement	\$4.1M	<b>\$34.9M</b>
Grant Funding from Other Local Agencies	\$0.0M	<b>\$17.1M</b>
Downtown Parking In-Lieu Fees	\$5.4M	<b>\$6.8M</b>
Parks Dedication Fees	\$1.6M	<b>\$3.3M</b>
SB1 Gas Tax Funding	\$0.0M	<b>\$2.5M</b>
Reimbursement from Google	\$0.0M	<b>\$1.0M</b>
Charleston/Arastradero Impact Fees	\$0.0M	<b>\$0.9M</b>
Stormwater Management Fund	\$0.0M	<b>\$0.7M</b>
Public Safety Facility Impact Fees	\$0.0M	<b>\$0.5M</b>
Utility Funds	\$0.0M	<b>\$0.1M</b>
<b>Total</b>	<b>\$11.0M</b>	<b>\$211.7M</b>

The IP relies on the two ballot measures approved by voters to increase the Transient Occupancy Tax (TOT) in November 2014 and November 2018 for a total of 3.5 percent of TOT revenue which the City Council identified as a funding source to aid in infrastructure needs, including the Infrastructure Plan projects and the associated debt service payments from the Certificate of Participation (COP) issuances. The City Council also identified TOT funding from new hotels built after January 2015 for infrastructure needs. In March 2019, COPs were issued for the California Avenue Garage, with an annual debt service cost of \$2.4 million. In April 2021, COPs were issued for the Public Safety Building, with an annual debt service cost of \$5.0 million, bringing the total annual debt service for both projects to \$7.4 million. A portion of the TOT revenues will be allocated to pay for the debt service. A reserve for debt service was established starting in FY 2022 at \$2.4 million and increases to \$7.4 million by FY 2027. This will enable the Capital Improvement Fund to better withstand revenue fluctuations in the future while maintaining funds to pay the current debt service costs.

In addition to the TOT funding, there are other funding sources dedicated towards IP projects as outlined in the table above. For more information regarding the funding sources for each IP project, please see the individual project pages in this document.

In addition to the Council Infrastructure Plan, there are several other potentially necessary and significant capital projects that do not have a funding source identified. While successful completion of the Council Infrastructure Plan has been identified as the highest infrastructure priority, the following are some other potential competing community asset projects that currently are not fully funded as part of the 2025-2029 CIP:

- Comprehensive Conservation Plan for Foothills Nature Preserve
- Junior Museum and Zoo Phase II
- Parks Master Plan Implementation

## CAPITAL IMPROVEMENT FUNDS

- Fire Training Center

### NEW PROJECTS

There are 11 new projects in the Capital Improvement Fund for the 2025-2029 CIP, with five projects under the Buildings and Facilities category:

- California Avenue Parking District Parking Improvements (PF-25000): FY 2025 and 2025-2029 CIP: \$0.1 million
- Children's Theatre Facility Upgrade/Repair (AC-28002): FY 2025 and 2025-2029 CIP: \$0.1 million
- Children's Theatre Lighting System (AC-28001): 2025-2029 CIP: \$0.8 million
- Electric Operations Office Remodel (PE-26001): 2025-2029 CIP: \$3.2 million
- Palo Alto Art Center Ceramics Equipment (AC-28003): FY 2025: \$0.1 million; 2025-2029 CIP: \$0.2 million

Two projects are under the Department Technology Upgrades and Improvements category:

- City Radio Replacement Program (PD-25000): FY 2025: \$0.3 million; 2025-2029 CIP: \$2.7 million
- Fire Equipment Replacement (FD-25000): FY 2025: \$0.1 million; 2025-2029 CIP: \$3.3 million

Two projects are under the Parks and Open Space category:

- Eucalyptus Tree Removal (PG-25002): FY 2025 and 2025-2029 CIP: \$0.1 million
- Rinconada Pool Starting Blocks (PG-25003): 2025-2029 CIP: \$0.1 million

Two projects are under the Traffic and Transportation category:

- Charleston Road/Alma Street Railroad Crossing Safety Improvements (PL-25002): FY 2025: \$0.5 million; 2025-2029 CIP: \$1.3 million
- Traffic Intersection Accessibility Improvements (PL-25001): FY 2025 and 2025-2029 CIP: \$0.6 million

More information about these projects and others in the Capital Improvement Fund can be found on the project pages under the Capital Improvement Fund section in this document.

### INFRASTRUCTURE RESERVE

The ending fund balance in the Capital Improvement Fund is referred to as the Infrastructure Reserve (IR). The IR is used to provide cash flow for reimbursable grants, address unanticipated cost increases, and provide funding for urgent and unanticipated projects. As seen in the Source and Use chart in the Capital Improvement Fund section of this document, the projected IR balance at the end of FY 2025 is estimated to be \$2.4 million, which is below the recommended level of \$3.0 million. As discussed above, this is caused by the City's commitment to addressing the maintenance backlog, and the establishment of a reserve for debt service to better withstand revenue fluctuations in the future. Although this will limit the ability to address emergencies and accommodate major changes in FY 2025, the fund balance is projected to remain above the recommended level in the other years of the 2025-2029 CIP.



It is important to note that the City Council only approves the FY 2025 portion of the five-year CIP as part of the FY 2025 budget development process. The assumptions for future years will continue to be evaluated throughout FY 2025 and will be reviewed as part of the development and ultimate adoption of the 2026-2030 CIP through the FY 2026 budget process.

### **CUBBERLEY PROPERTY INFRASTRUCTURE FUND**

The 2025-2029 CIP includes funding for infrastructure improvements at the Cubberley Community Center in accordance with the November 2014 change to the lease with the Palo Alto Unified School District (PAUSD), which reallocated an annual \$1.8 million "Covenant Not to Develop" payment benefiting the school district to infrastructure repair and renovation for the Cubberley Community Center. In FY 2023, the Cubberley Community Center Redevelopment project (CB-26000) was established to provide funding in FY 2026 for studying and developing the design of a new community center on the Cubberley Community Center site owned by the City. Cubberley is a valuable community resource, and the plan includes site investigative and funding feasibility studies to inform project scope and design. Construction would occur beyond the current five-year CIP and would be dependent on future funding. This project builds upon the Cubberley Concept Plan completed in 2019.

The 2025-2029 CIP for the Cubberley Community Center includes funding for emergency repairs at the site, scheduled roof replacements, turf replacement, and completion of the field restroom. Emergency repair and roof replacement work is needed to maintain safe building conditions for current use of the site. Turf replacement will ensure safe playing conditions at the Cubberley field, and completion of the field restroom will provide facilities near the field that are heavily used for athletic events.

On July 1, 2020, the City entered a new lease with PAUSD. Due to the negative impacts to the City's budget from the events surrounding COVID-19, and the request by PAUSD to retain portions of Cubberley, the new lease was negotiated to reduce the City's use of the premises and the corresponding cost. However, PAUSD will continue to reimburse the City for their share of the operating and maintenance costs as stipulated in the lease agreement. Estimated amounts for PAUSD's portion of Cubberley Roof Replacements have been programmed into the 2025-2029 CIP.

## CAPITAL IMPROVEMENT FUNDS

### **NEW PROJECTS**

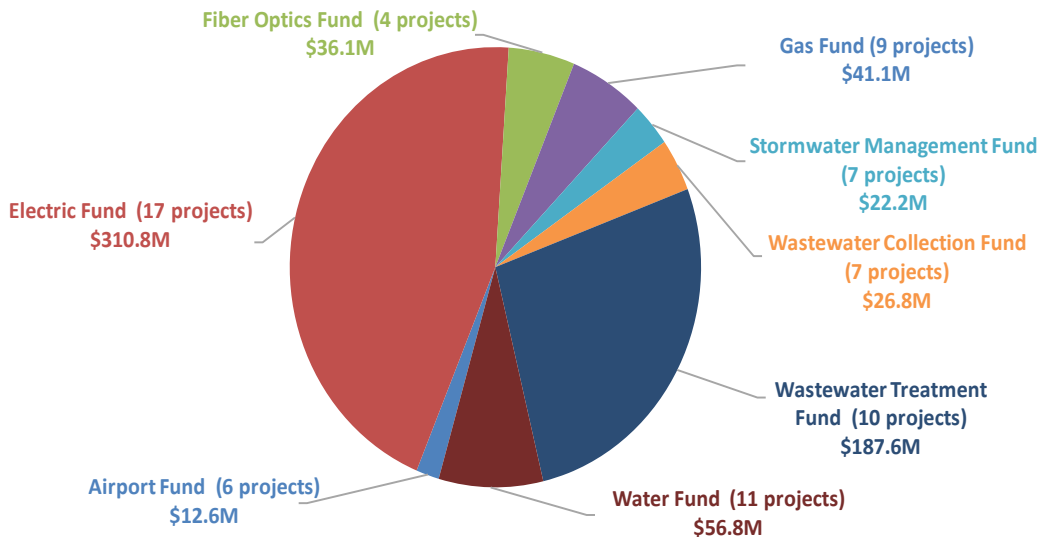
There are no new projects in the Cubberley Property Infrastructure Fund for the 2025-2029 CIP. Information about existing projects at the Cubberley Community Center can be found in the Cubberley Property Infrastructure Fund section in this document.

# ATTACHMENT B: ENTERPRISE AND INTERNAL SERVICE FUNDS

## ENTERPRISE FUND CAPITAL IMPROVEMENT PROJECTS

Enterprise Funds account for financial activities that are associated with a broad range of municipal services. Each year, a significant investment is made from the City's Enterprise Funds (Airport, Electric, Fiber Optics, Gas, Stormwater Management, Wastewater Collection, Wastewater Treatment, and Water). In FY 2025, a total of \$225.9 million will be allocated towards the Capital Improvement program for the Enterprise Funds, with \$694.0 million allocated over the five-year CIP, representing 36.6 percent and the second largest portion of CIP expenditures for all funds. Of the \$225.9 million allocated in FY 2025, \$82.6 million was funding previously approved by the City Council, and recommended to be reappropriated from FY 2024 to FY 2025 for continuation of the projects. The Utilities Department manages the Electric, Water, Gas, Fiber Optics, and Wastewater Collection Funds, while the Public Works Department manages the Airport, Stormwater Management, and Wastewater Treatment Funds. Following is a brief discussion of the City's largest Enterprise Fund capital improvement programs. Additional information on each of these funds can be found in the fund summary sections of this document.

### 2025-2029 ENTERPRISE CIP PROJECTS BY FUND (71 TOTAL) \$694.0 MILLION



## ENTERPRISE AND INTERNAL SERVICE FUNDS

### **Electric Fund**

Over the next several fiscal years, the Electric Utility will continue to execute its regular maintenance, repair and replacement plan for the distribution system, and rolling out the advanced metering infrastructure and various smart grid technologies. A total of \$310.8 million is allocated towards capital infrastructure over the 2025-2029 CIP, with \$67.0 million allocated in FY 2025. The five-year CIP projects include work in the following areas:

- Substation physical security upgrades
- Deteriorated wood pole replacements
- Distribution system upgrades
- Foothills electric rebuild for fire mitigation
- Smart grid installation
- Electric intertie
- Electric customer connections
- Electric grid modernization including 4/12kV conversions, underground districts, and underground rebuilds

As the City ramps up efforts to meet its goal of 100% electrification and 80% carbon emissions reduction from 1990 by the year 2030, there must be rapid infrastructure development to shift from natural gas to electric appliances and from gasoline to electric vehicles. The Electric Utility has finalized a pilot area upgrading the distribution system in parallel with fiber-to-the-premises. The goal of the pilot is to determine the most efficient, least disruptive, and most cost-effective way to implement residential electrification and provide fiber-speed internet services in residential neighborhoods.

More information about capital projects in the Electric Fund can be found in the Electric Fund section of this document.

### **Fiber Optics Fund**

In December 2022, Council approved the fiber expansion plan to rebuild the dark fiber backbone, and a phased approach to build fiber-to-the-premises (FTTP), previously “fiber-to-the-home” or “FTTH”. The new fiber backbone will provide high-capacity fiber to City departments, enabling the deployment of advanced systems, such as the advanced metering infrastructure (AMI) system, and provide new commercial dark fiber leasing opportunities. In phase 1, FTTP will offer Palo Alto Fiber internet to residents and businesses in neighborhoods. Major efforts to rebuild the dark fiber backbone and coordinate this work with the rollout of FTTP and the Electric Fund Electric Grid Modernization project are anticipated to begin in the third quarter of FY 2024. The pilot area has been finalized which will serve about 1,200 customers. At the completion of phase 1, FTTP may reach up to 6,000 customers. A total of \$36.1 million is allocated towards capital infrastructure over the 2025-2029 CIP, with \$21.0 million allocated in FY 2025. Funding in FY 2025 may be spread and reallocated based on planned work, which will be aligned later when requests for proposals have been received.

More information about capital projects in the Fiber Optics Fund can be found in the Fiber Optics Fund section of this document.

### **Water, Gas, and Wastewater Collection (WGW) Program**

Construction costs have risen drastically in the last few years, with fewer bidders and higher prices stemming from inflation in the economy and increased demand for construction services. This has drastically impacted project costs as the incremental costs per foot for main replacements have increased substantially. Since there has been no indication that the higher construction costs will abate in the near future, planning for future CIP spending assumes inflationary increases, thereby significantly increasing overall CIP costs in the forecast period. Despite these rising costs, in order to properly address aging infrastructure, the City recommends accelerating the wastewater main replacement from 1 mile to 2.5 miles annually beginning in 2026 to address mains before the end of their life expectancy, and proceeding that same fiscal year with the Park Reservoir replacement or rehabilitation, the second to last of six water tank seismic upgrade or replacement projects to prevent water loss during a seismic event. Additionally, to meet the City's goal of 100% electrification and 80% carbon emissions reduction from 1990 by the year 2030, gas main replacements will need to balance current needs with anticipated future needs as the City phases out gas-based residential end uses while undergoing the retirement of the gas distribution infrastructure.

A total of \$124.7 million is allocated towards capital infrastructure across these three funds over the 2025-2029 CIP, with \$19.1 million allocated in FY 2025. During COVID-19, austerity measures were implemented to avoid rate increases from capital needs, resulting in prior CIPs trimming projects down to a minimum of replacement and emergency needs. However, WGW CIP investment is necessary to maintain the existing 40-50-year main replacement schedule. To help mitigate the impact of some of these increasing costs, the City is pursuing alternative financing strategies, such as applying for federal grants. Although the City was awarded a grant from Natural Gas Distribution Infrastructure Safety and Modernization (NGDISM) for Gas Replacement Project 25 (GS-15000), the funding amount has not yet been announced.

There are two new projects programmed in the WGW Program for the 2025-2029 CIP under the category of System Improvements:

- Gas Line Repair at Arastradero Creek (GS-25001): FY 2025 and FY 2025-2029 CIP: \$1.0 million
- Wastewater Collection System Rehabilitation/Augmentation Project 34 (WC-26000): FY 2025-2029 CIP: \$3.5 million

More information about these and other capital projects in the WGW Program can be found in the Gas Fund, Water Fund, and Wastewater Collection Fund sections of this document.

### **Airport Fund**

The Airport receives most of its funding through grants from the Federal Aviation Administration (FAA) and the City is required to match ten percent of the award. A total of \$12.6 million is allocated towards capital infrastructure over the 2025-2029 CIP, with \$3.8 million allocated in FY 2025. Major projects in the 2025-2029 CIP include:

## ENTERPRISE AND INTERNAL SERVICE FUNDS

- Airfield Electrical Improvements (AP-19001)
- Airport Access Road Reconstruction (AP-24000)
- Automated Weather Observation System (AWOS) (AP-19000)
- Runway and Taxiway Reconstruction and Drainage Improvements (AP-22000)

More information about these capital projects and others at the Airport can be found in the Airport Fund section of this document.

### **Stormwater Management Fund**

The Stormwater Management Fee ballot measure was approved by voters in April 2017, providing funding for the Storm Drain Blue Ribbon Committee's recommendations for capital projects related to maintenance and upgrades to the City's stormwater management system. The Committee recommended a total of 13 projects in the 15 years following the passage of the ballot measure. The first of the 13 projects was completed in 2020, and seven more projects are anticipated to be completed within the five-year CIP. The 2025-2029 CIP includes expenditures of \$22.2 million, with \$5.8 million allocated in FY 2025. Major projects in the 2025-2029 CIP include:

- West Bayshore Road Pump Station (SD-20000)
- West Bayshore Road Trunk Line Improvements (SD-23000)

There are two new projects programmed in the Stormwater Management Fund for the 2025-2029 CIP under the category of Capacity Improvements:

- Center Drive Capacity Improvements (SD-26001): 2025-2029 CIP: \$3.0 million
- Hamilton Avenue System Upgrades (SD-25000): FY 2025: \$0.1 million; 2025-2029 CIP: \$6.2 million

More information about these and other capital projects in the Stormwater System can be found in the Stormwater Management Fund section of this document.

### **Wastewater Treatment Fund**

The Wastewater Treatment Fund accounts for activities to the replace and rehabilitate the Regional Water Quality Control Plant (RWQCP) infrastructure. The 2025-2029 CIP includes expenditures of \$187.6 million, with \$109.2 million allocated in FY 2025. Approximately 64% of expenditures within this fund are reimbursed by five contributing partner agencies (Cities of Mountain View and Los Altos, Town of Los Altos Hills, Stanford University, and East Palo Alto Sanitary District). Many of the RWQCP's major systems are reaching the end of their useful life, and new technology for systems such as advanced water purification and secondary treatment upgrades are available and need to be integrated into the plant while older systems are phased out. Staff has been exploring funding options for low-interest state revolving fund loans and/or revenue bonds to mitigate the costs to the City and partner agencies for these large infrastructure investments. Major projects that are scheduled to be completed earlier in the 2025-2029 CIP include:

- Headworks Facility Replacement (WQ-16002)
- Local Advanced Water Purification System (WQ-19003)

# ENTERPRISE AND INTERNAL SERVICE FUNDS

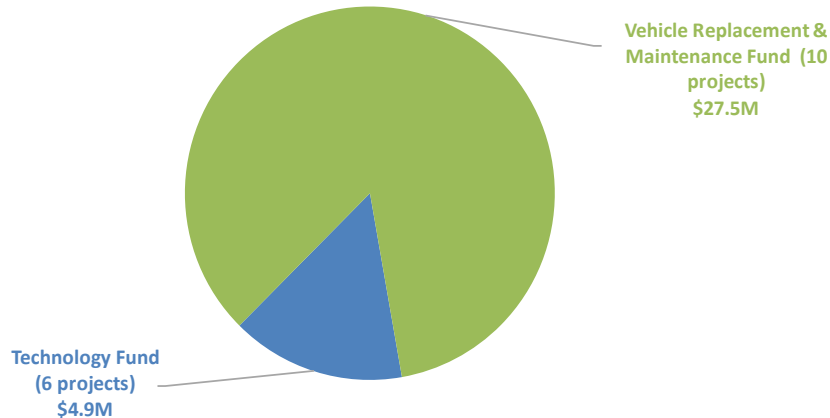
- New Laboratory and Environmental Services Building (WQ-14002)
- Outfall Line Construction (WQ-19000)

More information about these capital projects and others at the RWQCP can be found in the Wastewater Treatment Fund section of this document.

## INTERNAL SERVICE FUND CAPITAL IMPROVEMENT PROJECTS

Internal Service Funds account for activity that provides goods or services to other funds, departments, or agencies within the City. Of the City's Internal Service Funds, the Technology Fund and Vehicle Replacement and Maintenance Fund have capital projects programmed in the 2025-2029 CIP. The 2025-2029 CIP expenditures in the Technology Fund totals \$4.9 million, with \$4.3 million allocated in FY 2025. The 2025-2029 CIP expenditures in the Vehicle Replacement Fund totals \$27.5 million, with \$9.6 million allocated in FY 2025.

### 2025-2029 INTERNAL SERVICE FUNDS CIP PROJECTS BY FUND (16 TOTAL) \$32.4 MILLION



### Technology Fund

Technology Fund projects enhance service delivery to the community and City staff through efficient and effective implementation of information technology solutions. Of the \$4.3 million in funding for FY 2025, \$2.6 million is recommended to be reappropriated from FY 2024 for continuation of the projects in FY 2025. Major projects in the 2025-2029 CIP include:

- City Council Chambers Upgrade (TE-19001)
- Enterprise Resource Planning Upgrade (TE-19000)
- IT Data Center Upgrade (TE-25000)
- Utilities Customer Bill System Improvements (TE-10001)

More information about these and other technology-related projects can be found in the Technology Fund section of this document.

### **Vehicle Replacement Fund**

Vehicle Replacement and Maintenance Projects provide funding for the maintenance and replacement of City vehicles and heavy equipment to ensure safe, reliable, and efficient use of resources. Of the \$9.6 million in funding for FY 2025, \$5.3 million is recommended to be reappropriated from FY 2024 for continuation of the projects in FY 2025. To maintain a regular replacement schedule efficiently, staff has been standardizing the process for determining the replacement value and timing.

There is one new project programmed in the Vehicle Replacement Fund for the 2025-2029 CIP under the category of Vehicle and Equipment Replacement:

- Scheduled Vehicle and Equipment Replacement - Fiscal Year 2029 (VR-29000): 2025-2029 CIP: \$4.2 million

More information about this project and other vehicle and equipment replacement projects can be found in the Vehicle Replacement Fund section of this document.





# INTRODUCTION





CITY OF  
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ALTO**

# Budget Acknowledgments

## Department Budget Coordinator

### Community Services

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### Library

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Brad Eggleston  
Holly Boyd  
Kristen O'Kane  
Philip Kamhi  
Naomi Hsu  
Paul Harper

# CIP ORGANIZATIONAL CHART



# The Budget Process and Document

## Capital Budget and Five-Year Capital Improvement Plan

The annual capital budget and five-year Capital Improvement Plan (CIP) is a spending plan for the City's infrastructure needs, which is based on the City Council priorities listed below. The City Council approved multi-year funding plans, such as the infrastructure keep-up and catch-up plan recommended by the Infrastructure Blue Ribbon Commission (December 2011), as well as the City Council 2014 Infrastructure Plan (June 2014). The review of the capital budget and five-year CIP is structured around public hearings conducted prior to City Council adoption.

## City Council Top Priorities

At the start of the City's budget process, the City Council determines its main priorities for the upcoming budget period. The priorities guide both budget development and department priority-setting. The public has the opportunity to provide input into this process as well as during the budget review by the Finance Committee and City Council. The following are the City Council's Top Priorities for 2024, adopted in January 2024:

- Economic Development and Transition
- Climate Change & Natural Environment – Protection and Adaptation
- Housing for Social and Economic Balance
- Community Health, Safety, Wellness & Belonging

## Budget Preparation

The City's annual budget process begins in September with the development of the base budget and concludes in August with the release of the adopted budget. The operating and capital budgets are developed on behalf of the City Manager, in consultation with senior management and the Director of Administrative Services, by the Administrative Services Department's Office of Management and Budget (OMB) utilizing the following main sources of information:

- The City Council's top priorities and other City Council directives, such as the 2014 Infrastructure Plan
- Organizational financial status and budgetary guidelines
- Service level and infrastructure prioritization, as identified by the City Manager
- Community input (e.g. Infrastructure Blue Ribbon Commission)
- The City's policies regarding land use and community design, transportation, housing, natural environment, business, and economics, as outlined in the Comprehensive Plan.

# CIP ORGANIZATIONAL CHART

## Capital Budget Calendar

### SEPTEMBER

The capital budget process begins with the preparation of the capital budget guidelines and calendar by the Administrative Services Department's Office of Management and Budget (OMB). The budget guidelines are then distributed to all departments.

### OCTOBER/NOVEMBER

Departments review the prior year five-year CIP. Based on the previously outlined information sources, changes to the prior year budgets are developed by the respective departments managing the City's infrastructure assets: Utilities, Information Technology, Community Services, Public Works, Office of Transportation, and Administrative Services. Changes to the CIP might include: addition of new projects, deletion of planned projects, reprioritization of planned projects, alternative funding strategies, and revision of project costs or timelines. Revisions of project costs reflect a review of potential variables such as, but not limited to, revised construction estimates, annual Consumer Price Index (CPI) increases, and known contractual increased costs.

### DECEMBER/JANUARY

Departments submit capital infrastructure funding requests to the OMB. For General Fund funded project requests, OMB, in conjunction with Public Works, prepares an initial prioritization of requests based on the previously outlined information sources for consideration by the General Fund CIP Review Committee consisting of senior managers in Public Works, Community Services, Administrative Services, and the Office of Transportation.

### JANUARY/FEBRUARY

The General Fund CIP Committee reviews the General Fund capital budget submissions to ensure that the proposed projects align with the City Council's Top Priorities and other City Council directives, can be funded with available resources, and are aligned in the five-year plan to maximize City resources.

### MARCH

The City Manager reviews and makes final decisions on the proposed capital budget and five-year Capital Improvement Program.

### APRIL/MAY

Staff solicits input from the Planning and Transportation Commission on the proposed CIP, which reviews the CIP as it relates to the Comprehensive Plan. Comments from the PTC and staff response to comments from the PTC are reported during the public budget hearings.

### MAY/JUNE

The City Manager releases and presents the proposed CIP to the City Council and posts the budget documents on the City's website. Through a series of public hearings the budget is discussed and amendments are proposed. Final adoption occurs at a public hearing in June. All changes made during the public hearings are incorporated into the adopted budget document, which is distributed to City libraries and posted on the City's website.

## Capital Project Criteria

The following are criteria for qualification as a capital project:

- Must have a minimum cost of \$50,000 for each stand-alone unit or combined project.
- Must have a useful life of at least five to seven years (the purchase or project will still be functioning and not be obsolete at least five to seven years after implementation).
- Must extend the life of an existing asset or provide a new functional use for an existing asset for at least five years, for example extensive roof rehabilitations. These improvements are distinguished from ongoing maintenance work that may extend the life of the asset but is done on a routine basis.

### Project Prioritization Selection Criteria

As part of developing the capital budget, staff must prioritize how to allocate limited resources over a variety of competing needs and demands. Projects and funding levels are prioritized utilizing several criteria, including:

- City Council priorities;
- Alignment with the City's Infrastructure Blue Ribbon Commission (IBRC) report and Infrastructure Plan;
- Health and safety implications;
- Historical spending levels; and
- Certainty over the feasibility, scope, and level of resources required.

In addition to the criteria outlined above, the prioritization of Enterprise Fund CIP projects is determined by the department that manages the Enterprise Fund, and planned using several more factors such as the department's operational needs, funding availability, CIP strategic plan, oversight committee direction, and specific City Council direction.

### Continuing Projects

The City Council approved an amendment to Municipal Code Section 2.28.090, effective Fiscal Year 2016, City Council authorization is required for Capital funds to be carried forward from one fiscal year to the next. There are several opportunities for departments to request funds to be carried over from one fiscal year to the next. First, departments have the opportunity to request funds to be carried over from one year to the next through the budget process. By estimating lower than budgeted expenditures in the current year, funds not anticipated to be spent in the current year but still required for the completion of the project are reflected in the first year of the five-year CIP. The Fund Narrative for each fund indicates the total amount of reappropriations included in this budget. Additionally, as part of the year-end closing actions, anticipated to be brought forward for City Council approval in the Fall, all projects will be reviewed to determine if additional adjustments to reappropriations are required.

### Operating Budget Impact

The City uses the life cycle costing principle in planning for capital projects. All costs associated with a capital project, including operations and maintenance, will be included in the operating budget at the time of release of the applicable annual operating budget. Where applicable, the CIP budget document identifies the amount of operating expense associated with the project.

# CIP ORGANIZATIONAL CHART

## Changes to the Adopted Budget

Administrative policies and the Palo Alto Municipal Code provide guidelines on budget transfers, the authorization necessary to implement transfers, and appropriations after the budget is adopted.

## Budget Amendment

This is an adjustment to the total project appropriated amount which was not included in the original adopted budget. These supplemental appropriations are presented to City Council in an agenda report and must be approved by the City Council with a 2/3 majority.

Reasons for initiating a Budget Amendment include:

- Recognizing unanticipated revenue, which was not projected in the budget, and appropriating related expenditure in the year received .
- Changes in scope of work
- Higher than estimated costs
- Adding new projects to the budget due to an urgent need or City Council direction

## Budgetary Basis

The budget is prepared in accordance with Generally Accepted Accounting Principles. The budget for governmental funds has been prepared on a modified accrual basis. The modified accrual basis recognizes expenditures when the related fund liability is incurred. Revenues are recognized when they become both measurable and available. “Measurable” means the amount of the transaction can be determined and “available” means collectible within the current period or soon enough thereafter to be used to pay liabilities of the current period.

## Fund Structure and Accounting Basis

The accounts of the City are made up of funds that help organize and account for restricted resources. A fund is defined as a fiscal and accounting entity with a self-balancing set of accounts (comprised of assets, liabilities, fund equity, revenues, and expenditures), which are segregated for the purpose of carrying out specific activities or attaining certain objectives in accordance with regulatory requirements. The City has the following fund type categories:

### Governmental Fund Types

The Governmental Funds include the General, Special Revenue, Debt Service, and Capital Project Funds. Governmental Funds are reported using the current financial resources measurement focus and the modified accrual basis of accounting.

### Proprietary Fund Types

The Proprietary Funds, which include the Enterprise and Internal Service Funds, are used to account for the City’s business-type activities. Proprietary funds are reported using the economic resources measurement focus and the full accrual basis of accounting. Revenues are recorded when earned, and expenses are recorded at the time liabilities are incurred, regardless of when the related cash flows take place.

### Fiduciary Fund Types

The Fiduciary Funds account for assets held by the City in trust or as an agent for various assessment and community facilities districts. The City budget process does not include fiduciary funds.



## Agency Fund Types

The Agency Funds are custodial in nature and do not involve measurement of results of operations. The City maintains three agency funds. The City budget process does not include agency funds.

## Document Layout

The Capital Budget document provides readers with cost estimates, methods of financing, and project schedules for the City of Palo Alto's CIP for the next five years as well as estimates for current year activity.

The document is organized by fund with each fund section containing the following elements:

- **Capital Projects Fund Overview:** A narrative for every fund is included in this document, which includes historical expenditure levels, budget comparisons to prior years, a summary of the infrastructure related to that particular fund, and a discussion of major capital projects grouped by category. Additionally, this section includes statistical information regarding the program such as miles of gas mains or number of vehicles in the City fleet.
- **Project Detail Pages:** After each fund summary, the reader finds information for each capital project, both recurring and non-recurring projects. The project pages include information regarding the project completion schedules (initial and revised), descriptions, justifications, a summary of significant changes to the cost or schedule of a project, revenue and expense information by fiscal year, and operating budget impacts for each project. This allows for the total cost of a project to be detailed. The information in the project detail pages is discussed further below.
- **Project Maps:** For the Adopted Capital Improvement Fund and the various Enterprise Funds, a map is included which shows the location of projects, for projects that have a singular defined location.

At the end of the document, the reader will find a Glossary which defines frequently used terms.

# CIP ORGANIZATIONAL CHART

## Understanding the Details

### Project Numbering Sequence

The project number contains seven characters. The first two are letters related to the managing department or fund. The next two digits relate to the fiscal year in which the project first received funding or was identified. The final three numbers are system-generated. For example, with project PE-17006, the “PE” denotes Public Works Engineering, the “17” indicates Fiscal Year 2017 funding, and the “006” is the sequential project number. The “Managing Department or Fund” table can be used as a reference for the two-character alpha portion of the project number.

### Project Information

The project detail pages include the following information:

- Fund – refers to the fund where the project is budgeted.
- Category – describes the type of activity that the project aligns to within the fund. A table at the end of this section provides a summary of the categories assigned to the various funds.
- Project Location – describes the location or area that will be improved as a result of the project.
- Managing Department – refers to the department or office that is responsible for the delivery of the project.
- IBRC Reference – refers to nomenclature devised by the Infrastructure Blue Ribbon Commission (IBRC) for certain General Fund projects; “keep-up” refers to projects which address the annual maintenance of existing infrastructure; “catch-up” refers to projects which address deferred maintenance needs; “new” refers to projects which address needs not identified by “keep-up” or “catch-up.” This category only applies to General Fund projects after the release of the Final IBRC report in 2011.
- Initial/Revised Project Start/Completion – indicates what the initial schedule for the project was, as well as any subsequent changes.
- Project Description – provides the scope of work for the project.
- Project Justification – outlines the reasons why funding is required.
- Supplemental Information – provides additional information that may enhance the project description and justification.
- Significant Changes – provides an explanation of the changes to the initial schedule or budget for a project.

Project Code	Managing Department or Fund
AC	Arts & Culture
AP	Airport Fund
AS	Administrative Services
CB	Cubberley Fund
EL	Electric Fund
FD	Fire Department
FO	Fiber Optics Fund
GS	Gas Fund
LB	Library Fund
OS	Open Space
PD	Police Department
PE	Public Works Engineering
PF	Public Works Facilities
PG	Parks & Golf Course
PL	Office of Transportation
PO	Public Works Operations
SD	Stormwater Management
TE	Technology Fund
VR	Vehicle Fund
WC	Wastewater Collection Fund
WQ	Wastewater Treatment Fund
WS	Water Fund

- Funding Sources Schedule – outlines the sources of funding for the project by fiscal year. Generally projects are not funded by a particular grant, fee, or transfer, but in instances where they are, these sources are indicated. In most cases, this section indicates the amount that the fund where the project is budgeted will contribute towards the project. This table also includes prior year revenues, a current year estimate, anticipated revenue beyond the five years of the CIP, and total revenue for the project.
- Expenditure Schedule – outlines the projected costs, by year for each project. Costs are broken into phases, such as design and construction, to indicate how the funds will be spent each year. Where applicable, salary and benefit estimates are included in the individual phases for a project, rather than reflected separately as in prior years. Salary and benefit costs are estimated for all five years of the CIP. In prior years, salary and benefit costs were reflected within the project for the first year of the CIP only. This table also includes prior year expenditures, a current year estimate, anticipated expenditures beyond the five years of the CIP, and the total cost of the project.
- Operating Impacts – describes estimated annual maintenance and operating costs associated with the project. Efforts have been made to include the operating cost impacts wherever possible. Maintenance costs include utilities, equipment maintenance or service, facilities maintenance or service, grounds/landscape maintenance or service, custodial maintenance and others.
- Relationship to Comprehensive Plan – indicates how the project furthers the implementation of the Comprehensive Plan, citing specific Comprehensive Plan policies and programs. In instances where a secondary relationship to the Comprehensive Plan exists, this is notated as well.
- Potential Board/Commission Review – City Council-appointed advisory board, commission or ad hoc committee that has oversight responsibility on a project. A project may be reviewed by more than one board or commission. This body (bodies) provides the City Council input as to the merits of a project.
- Environmental Impact Analysis – indicates the California Environmental Quality Act (CEQA) status of the project and LEED status, if applicable.

# CIP ORGANIZATIONAL CHART

## CAPITAL FUNDS

CAPITAL IMPROVEMENT FUND	CUBBERLY PROPERTY INFRASTRUCTURE FUND
<ul style="list-style-type: none"> <li>Administration</li> <li>Building and Facilities</li> <li>Department Technology Upgrades</li> <li>Parks and Open Space</li> <li>Streets and Sidewalks</li> <li>Traffic and Transportation</li> </ul>	<ul style="list-style-type: none"> <li>Buildings and Facilities</li> <li>Parks and Open Space</li> </ul>

## ENTERPRISE FUNDS

<b>AIRPORT FUND</b> <ul style="list-style-type: none"> <li>Airport Apron, Runways, and Taxiways</li> <li>Airport Facilities</li> </ul>	<b>STORMWATER MANAGEMENT FUND</b> <ul style="list-style-type: none"> <li>Capacity Improvements</li> <li>System Improvements</li> <li>System Rehabilitation</li> </ul>
<b>ELECTRIC FUND</b> <ul style="list-style-type: none"> <li>Customer Connections</li> <li>System Improvements</li> <li>Underground Projects</li> </ul>	<b>WASTEWATER COLLECTION FUND</b> <ul style="list-style-type: none"> <li>Customer Connections</li> <li>System Improvements</li> </ul>
<b>FIBER OPTICS FUND</b> <ul style="list-style-type: none"> <li>Capacity Improvements</li> <li>Customer Connections</li> </ul>	<b>WASTEWATER TREATMENT FUND</b> <ul style="list-style-type: none"> <li>Buildings and Facilities</li> <li>System Improvements</li> </ul>
<b>GAS FUND</b> <ul style="list-style-type: none"> <li>Customer Connections</li> <li>Gas Main Replacements</li> <li>System Improvements</li> </ul>	<b>WATER FUND</b> <ul style="list-style-type: none"> <li>Customer Connections</li> <li>System Improvements</li> <li>Water Main Replacements</li> </ul>

## INTERNAL SERVICE FUNDS

<b>TECHNOLOGY FUND</b> <ul style="list-style-type: none"> <li>Citywide Technology Upgrades and Improvements</li> <li>Department Technology Upgrades and Improvements</li> </ul>	<b>VEHICLE REPLACEMENT FUND</b> <ul style="list-style-type: none"> <li>Fleet Infrastructure Improvements</li> <li>Vehicle and Equipment Replacement</li> </ul>
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*California Society of Municipal  
Finance Officers*

*Certificate of Award*

***Capital Budget Excellence Award  
Fiscal Year 2023-2024***

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For meeting the criteria established to achieve a CSMFO Award in Budgeting.

*January 29, 2024*



*Rich Lee*

*Rich Lee  
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# FINANCIAL SUMMARY





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# SUMMARY OF CIP PROGRAM REVENUE

## Summary of CIP Revenue

Revenue Source (\$000s)	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total
<b>Capital Improvement Funds</b>						
<b>Transfer from General Fund</b>	33,765	37,977	39,283	40,486	41,754	193,264
<b>Gas Tax</b>	3,305	3,305	3,305	3,305	3,305	16,525
<b>Impact Fees/In-Lieu Fees</b>	8,655	2,204	395	1,104	395	12,753
<b>Federal, State, and Local Agencies</b>	21,068	47,616	46,277	44,753	416,249	575,964
<b>Stanford University Medical Center Fund</b>	4,075	-	-	-	-	4,075
<b>Transfer from Parking Funds</b>	100	87	247	220	200	854
<b>Transfer from Other Funds</b>	1,000	250	2,600	-	-	3,850
<b>Total Capital Improvement Funds</b>	<b>\$71,967</b>	<b>\$91,440</b>	<b>\$92,108</b>	<b>\$89,868</b>	<b>\$461,903</b>	<b>\$807,286</b>
<b>Enterprise Funds</b>						
<b>Utility User Fees and Charges</b>	3,929	3,940	3,952	3,918	3,918	19,657
<b>Debt Financing</b>	123,502	25,000	32,195	25,000	75,498	281,195
<b>Federal, State, and Local Agencies</b>	4,135	900	2,520	2,250	1,440	11,245
<b>Transfers from Other Funds</b>	353	13,362	373	388	400	14,875
<b>Total Enterprise Funds</b>	<b>\$131,917</b>	<b>\$43,202</b>	<b>\$39,040</b>	<b>\$31,556</b>	<b>\$81,256</b>	<b>\$326,971</b>
<b>Internal Service Funds</b>						
<b>Transfer from General Fund</b>	2,545	2,385	2,385	2,385	2,385	12,083
<b>Transfer from Other Funds</b>	1,871	1,871	1,746	1,746	1,746	8,982
<b>Total Internal Services Funds</b>	<b>\$4,416</b>	<b>\$4,256</b>	<b>\$4,131</b>	<b>\$4,131</b>	<b>\$4,131</b>	<b>\$21,065</b>
<b>Total Capital Improvement Program</b>	<b>\$208,301</b>	<b>\$138,898</b>	<b>\$135,279</b>	<b>\$125,555</b>	<b>\$547,290</b>	<b>\$1,155,322</b>

## Transfer From General Fund

The Capital Improvement Funds category includes two funds: the Capital Improvement Fund and the Cubberley Property Infrastructure Fund. To support essential infrastructure such as repairs to the City's roads, parks and open space, and facilities, the Capital Improvement Fund receives an annual base General Fund transfer and revenue from Transient Occupancy Taxes (TOT). The two voter-approved increases to the TOT, November 2014 and November 2018, totaling 3.5 percent of TOT revenue, were identified by the City Council as a funding source to support infrastructure needs. Revenue generated from TOT is transferred to support budgeted Infrastructure Plan projects and repayment of debt financing used to fund two of the Infrastructure Plan projects, the California Avenue Parking Garage and the New Public Safety Building.

The goal for the last several years has been to gradually increase the base transfer from the General Fund to the Capital Improvement Fund back to the pre-pandemic level by FY 2026. The FY 2025 budget reflects this continued increase, with \$29.4 million of General Fund transfers to the Capital Improvement Fund in FY 2025 and \$169.5 million in the 2025-2029 CIP. The FY 2025 figure includes the General Fund base transfer of \$13.7

## SUMMARY OF CIP PROGRAM REVENUE

million, revenue anticipated from the Council-directed TOT funding of \$13.7 million, and estimated interest earnings in the Capital Improvement Fund of \$2.0 million. Additionally, some projects receive direct transfers from the General Fund. Annually, a combined \$1 million of Utility Users Tax is transferred into the Sidewalk Repairs (PO-89003) and Street Maintenance (PE-86070) projects. In the 2025-2029 CIP, two rail grade separation projects, Meadow Drive and Charleston Road (PL-24000) and Churchill Avenue (PL-24001), will receive direct transfers of Measure K Business Tax revenue from the General Fund, with a combined \$1.5 million in FY 2025 and \$13.5 million over the five years of the CIP. The Cubberley Property Infrastructure Fund will continue to be supported by an annual transfer of \$1.8 million from the General Fund in FY 2025 and \$9.3 million in the 2025-2029 CIP, approved by the City Council as part of the new Cubberley Lease Agreement (CMR #11460). Transfers from the General Fund to the Internal Service Funds are comprised mostly of funding for vehicle replacement costs in the Vehicle Replacement and Maintenance Fund. In the 2025-2029 CIP, the total General Fund transfer to the Vehicle Replacement and Maintenance fund is \$12.1 million, or an average of \$2.4 million annually.

## Certificates of Participation/Debt Financing

The Infrastructure Plan (IP), as approved by the City Council in June 2014 (CMR #4889), relied upon a borrowing mechanism known as Certificates of Participation (COP) to fund a portion of the improvements outlined in the plan (\$63.3 million). By pledging future revenues generated by voter-approved increases to the TOT (discussed in the Transfer from General Fund section), the City financed, through issuance of debt, the cost of construction of the California Avenue Area Parking Garage (PE-18000) and a New Public Safety Building (PE-15001). The total debt financing for these two IP projects came to \$144.0 million with an estimated annual debt service cost of \$7.4 million.

In 2012, the Regional Water Quality Control Plant (RWQCP) created a Long-Range Facilities Plan to evaluate the infrastructure needs at the RWQCP with regards to future regulations, replacement and rehabilitation needs, site planning, and flow and load projections. Due to the large expense of the major projects included in the 2025-2029 CIP, the RWQCP will require debt financing. Some of these projects include the Local Advanced Water Purification Facility (WQ-19003) with estimated financing needs of \$65.1 million, the Headworks Facility Replacement (WQ-16002) with estimated financing needs of \$55.3 million, a New Laboratory and Environmental Services Building (WQ-14002) with estimated financing needs of \$16.4 million, and the Outfall Line Construction (WQ-19000) with estimated financing needs of \$17.8 million. Staff received approval from the City Council to pursue revenue bonds for these projects (CMR #10011) and will return to Council once the debt financing mechanism, State Revolving Fund (SRF) Loan, revenue bonds, or a blend of both, is determined.

In the Electric Fund, the Grid Modernization for Electrification project (EL-24000) will provide the City with an electric infrastructure adequate to support the City's goal of 100% electrification and 80% carbon emissions reduction by the year 2030. To attain the 100% electrification scenario, the electric system must be updated to meet the needs of electrification, and older components in the distribution infrastructure must be replaced to mitigate chances of overloading the system. This project is estimated to cost \$300 million over the next six years, and it will rely on debt financing of approximately \$25 million annually to cover half the cost, with the Electric Fund funding the other half.

## Gas Tax Fund

The Gas Tax Fund accounts for revenues received from the State gas tax and Federal and State grants earmarked for street improvements. Use of these funds is restricted to maintenance of the road network system of the City, including sidewalks. Transfers from the Gas Tax Fund support the Street Maintenance (PE-86070)

## SUMMARY OF CIP PROGRAM REVENUE

and Safe Routes to School (PL-00026) projects. The passage of S.B. 1 for Road Maintenance and Rehabilitation provides approximately \$1.4 million annually for street maintenance. This funding assists with the City's street maintenance program, allowing some funds to be reallocated to other capital projects with City Council approval.

### Community Development Funds

Community development funds are collected from developers and provide funding for the City's infrastructure-related to community centers, libraries, parks, public facilities, and transportation. The City Attorney provides guidance on whether a project qualifies for these sources of funding. In the 2025-2029 CIP, two projects are supported by the Parkland Dedication Fees collected accordingly under the Quimby Act: Byxbee Park (PE-18006), and Rinconada Pool Family Changing Room (PE-24004); and two projects are supported by Parks Impact Fees collected to fund the acquisition of land and improvements for neighborhood and district parks: Dog Park Installation and Renovation (PG-18001) and Park Restroom Installation (PG-19000). Community Center Impact Fees are collected for improvements to community centers and will support two projects in the 2025-2029 CIP: Electrification of City Facilities (PE-24001) and Facility Interior Finishes Replacement (PF-02022).

Traffic Impact Fees are programmed to support the Traffic Signal and Intelligent Transportation Systems project (PL-05030), which maintains traffic safety and improves roadway operations including the reduction of roadway congestion with traffic signal retiming projects. Funding from the Library Impact Fees are programmed to fund the Library Automated Material Handling (LB-21000) project. General Government Facility Impact Fees fund facilities related to municipal administration, and are programmed to support the Rinconada Pool Family Changing Room project (PE-24004). Public Safety Facility Impact Fees fund police and fire facilities, and are programmed to support the Fire Station 4 Replacement project (PE-18004). Lastly, transfers from the Downtown Parking In-Lieu Fund to the Capital Improvement Fund support the costs associated with the Downtown Parking Garage (PE-15007) project.

### Federal, State, & Local Agencies

The City partners with other agencies, including other government entities, to provide support to certain capital projects. This revenue is typically provided as reimbursement grants or direct transfer payments, for example funding from the Federal Aviation Administration (FAA) is recorded in the Airport Fund to offset 90% of the costs of Airport Capital projects. Further details are provided in the Airport Fund section of this document.

In Fiscal Year 2025, the City is expected to receive approximately \$21.1 million from other agencies in support of projects in the Capital Improvement Funds. In the remaining years of the Capital Improvement Program (Fiscal Years 2026 through 2029), it is anticipated that the City will receive an additional \$554.9 million in funds from other agencies for projects programmed in the Capital Improvement Funds. A major portion of this revenue, \$544.1 million, is for three of the four rail grade separation locations programmed into the Meadow Drive and Charleston Road (PL-24000) and Churchill Avenue (PL-24001) Railroad Grade Separation and Safety Improvement projects.

This revenue category includes discretionary Measure B funding for transportation enhancements from the Santa Clara Valley Transportation Authority (VTA), which is programmed to fund costs associated with the rail grade separation projects as well as the Traffic Signal and Intelligent Transportation Systems project (PL-05030) and the Traffic Intersection Accessibility Improvement project (PL-25001).

## SUMMARY OF CIP PROGRAM REVENUE

### Stanford University Medical Center Development Agreement

In 2011, a development agreement was established between the City of Palo Alto and the Stanford University Medical Center Parties. The funds received by the City from this development agreement have represented a significant portion of the funding for the Infrastructure Plan projects in prior fiscal years, and will continue to support the reconstruction of Fire Station #4 (PE-18004) in FY 2025. For additional information about the development agreement, please refer to the Special Revenue Funds section of the Fiscal Year 2025 Operating Budget document.

### Parking Funds

Over the 2025-2029 CIP, \$0.9 million is expected to be transferred from the City's parking funds for the University Avenue Parking Improvements project (PF-14003) and the California Avenue Parking District Improvements project (PF-25000).

### Transfers From Enterprise Funds

The City of Palo Alto has nine Enterprise Funds that are managed by the Public Works Department and the Utilities Department. The Airport Fund, Refuse Fund, Stormwater Management Fund, and Wastewater Treatment Fund are collectively referred to as the "Public Works Funds," while the Electric Fund, Fiber Optics Fund, Gas Fund, Water Fund, and Wastewater Collection Fund are collectively referred to as the "Utilities Funds." For further information, please refer to The Budget Process and Document section of this book. In instances where the Enterprise Funds would benefit from a General Fund or Internal Service Fund project, the Enterprise Funds are charged for their proportional share. Some examples that are included in the 2025-2029 CIP are the Electric Operations Office Remodel (PE-26001) and Utilities Customer Bill System Improvements (TE-10001) projects. A portion of the cost of these projects will be shared by the various Enterprise Funds according to their proportional use.

### Enterprise Funds Utility Rate Changes

Enterprise Funds operate on a full cost recovery basis. Accordingly, all costs related to operations and capital projects are recovered through utility rate charges. For additional information about the Fiscal Year 2025 utility rate increases, please refer to the Enterprise Funds Summary section of the Fiscal Year 2025 Operating Budget document.

### Transfers Within Enterprise Funds

Most of the Enterprise Funds are supported by rates, and the revenue is used for specific services provided by each fund. When a capital project supports multiple Enterprise Funds, the fund that manages the project is reimbursed through transfers from other funds to ensure the project's costs are proportionally shared. An example of this type of project is the application of the Geographic Information System (GIS) (WS-02014) that benefits the Water, Gas, and Wastewater Collection Funds. The Water Fund manages the GIS project and the Gas and Wastewater Collection Funds reimburse the Water Fund for their share of the project cost.

## SUMMARY OF CIP PROGRAM REVENUE

### User Fees and Charges

Certain CIP projects in the Enterprise Funds are supported by user fees. Included in this category are certain charges to telecommunication and cable television companies pertaining to undergrounding projects. The list of projects funded by user fees and the description of each user fee are summarized in the table below.

Enterprise Fund	Project Name	User Fee	CIP Plan Revenues	Description
<b>Electric Fund</b>	Electric Customer Connections (EL-89028)	Connection Fees	\$ 8,500,000	Cover services for installation, transformers, meters for new customers, upgrading of existing customers and temporary service connection. For a list of other services refer to Utility Rate Schedule E-15.
<b>Electric Fund</b>	Wood Pole Replacement (EL-19004)	Telecommunication Rental Fees	\$ 750,000	Shared cost for telecommunication access to utility poles.
<b>Fiber Optics Fund</b>	Fiber Optic Customer Connections (FO-10000)	Fiber Optic License Fees	\$ 1,000,000	Cover installation of fiber optic infrastructure for new service connections. For a list of other services refer to Utility Rate Schedule EDF-1.
<b>Gas Fund</b>	Gas System, Customer Connections (GS-80017)	Connection Fees	\$ 2,500,000	Cover services for distribution system extension, service connection, meter charges and relocation. For a list of other services refer to Utility Rate Schedule G-5.
<b>Wastewater Collection Fund</b>	Sewer System, Customer Connections (WC-80020)	Connection Fees	\$ 1,250,000	Cover services for collection system extension, service connection, relocation of facilities and manholes. For a list of other services refer to Utility Rate Schedule S-5.
<b>Water Fund</b>	Water System, Customer Connections (WS-80013)	Connection Fees	\$ 5,656,600	Cover services for distribution system extension, service connection, meter charges, capacity fees and fire hydrants. For a list of other services refer to Utility Rate Schedule W-5.

### Stormwater Management Fee

In April 2005, property owners approved an increase in the Storm Drainage Fee through a mail ballot process conducted in accordance with Proposition 218. Under the provisions of the 2005 ballot measure, the base rate of \$13.05 was scheduled to sunset on June 1, 2017, reverting to the pre-election rate of \$4.25. To reauthorize the fee through another ballot measure, staff worked with a City Manager-appointed Blue-Ribbon Committee to generate a recommendation for stormwater management funding beyond Fiscal Year 2017 and a joint committee/staff funding recommendation was presented to City Council in Spring 2016. In April 2017, the Stormwater Management Fee was approved by a majority of property owners via a ballot-by mail process, establishing a base rate of \$13.65 per Equivalent Residential Unit (ERU) per month along with a provision that the City Council could increase the rate on an annual basis by the local inflation rate, as measured by the Consumer Price Index (CPI), or six percent, whichever is less. Under the provisions of the ballot measure, the fee is recommended to increase by 2.6 percent, based on the local CPI increase, to \$17.20 per ERU for Fiscal Year 2025.

### Partner Agencies

The Cities of Palo Alto, Mountain View, and Los Altos, along with the Town of Los Altos Hills, Stanford University, and the East Palo Alto Sanitary District (the partner agencies) participate jointly in the cost of maintaining and operating the City of Palo Alto Regional Water Quality Control Plant (RWQCP). The City of Palo Alto is the owner and the administrator of the RWQCP, and the partner agencies reimburse the City for their share of the cost of capital projects programmed to maintain or upgrade the RWQCP facilities. This reimbursement revenue from the Partner Agencies is shown in the Operating Budget for the Wastewater Treatment Fund.

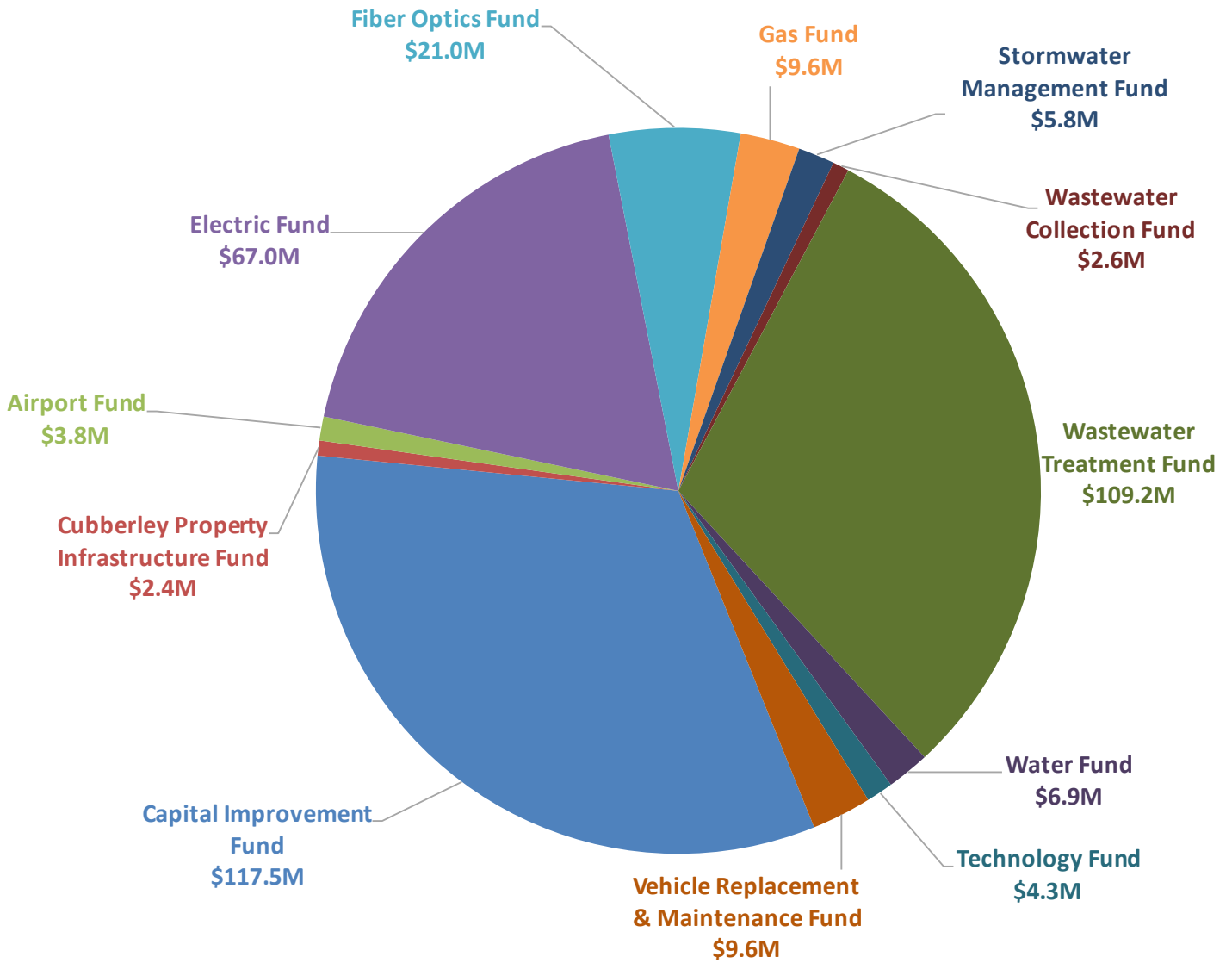
## SUMMARY OF CIP PROGRAM REVENUE

### Internal Service Funds

The General Fund, Capital Improvement Funds, and Enterprise Funds provide funding for their share of capital projects in the Internal Service Funds (ISF) through a cost allocation mechanism. Costs are allocated to the various funds based on proportional use of Vehicle Replacement and Technology related capital projects.

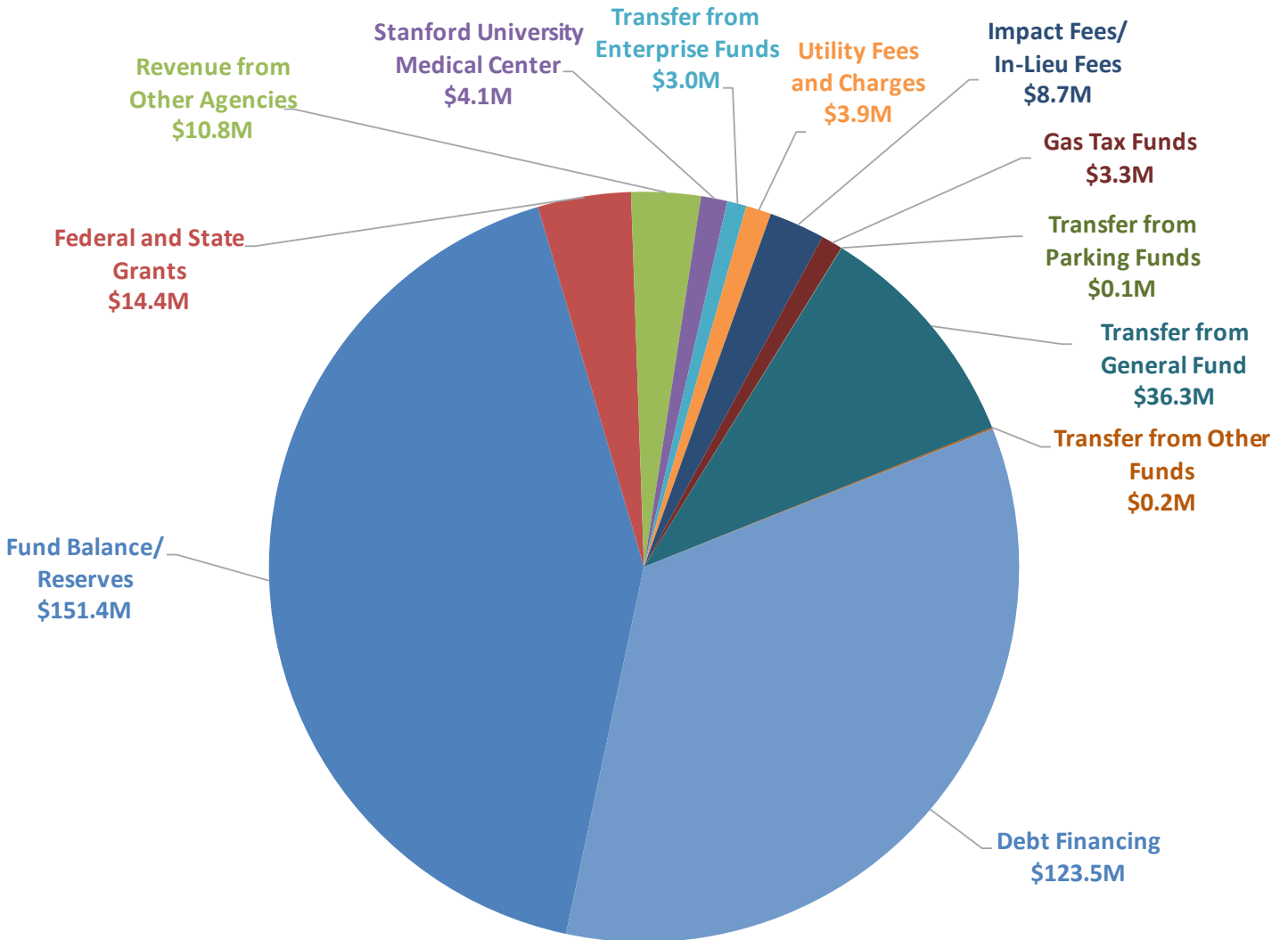
# 2025 Capital Budget Expenditures by Fund

**2025 CAPITAL BUDGET EXPENDITURES BY FUND - \$359.7 MILLION**



# 2025 Capital Budget Revenues by Source

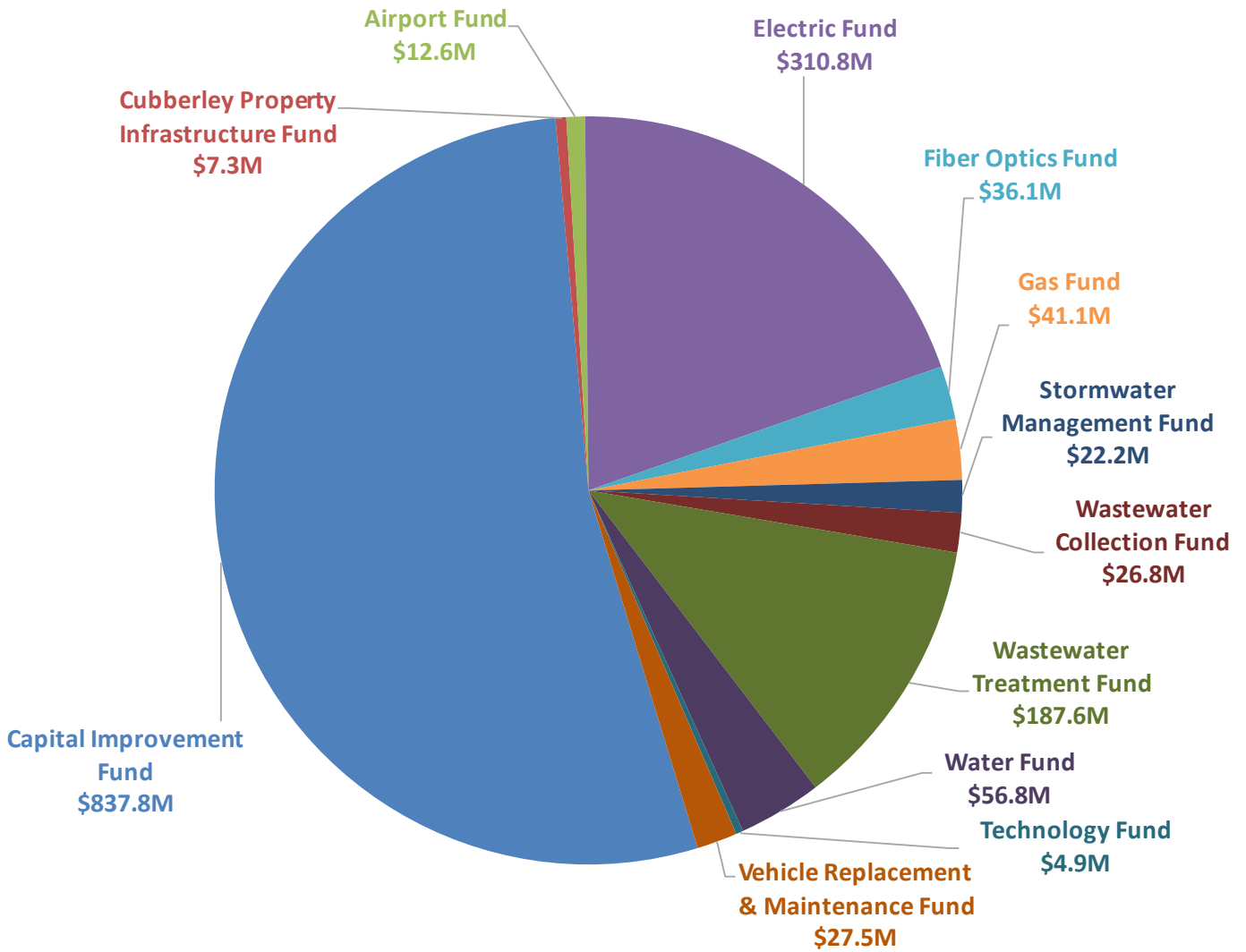
**2025 CAPITAL BUDGET REVENUES BY SOURCE - \$359.7 MILLION**





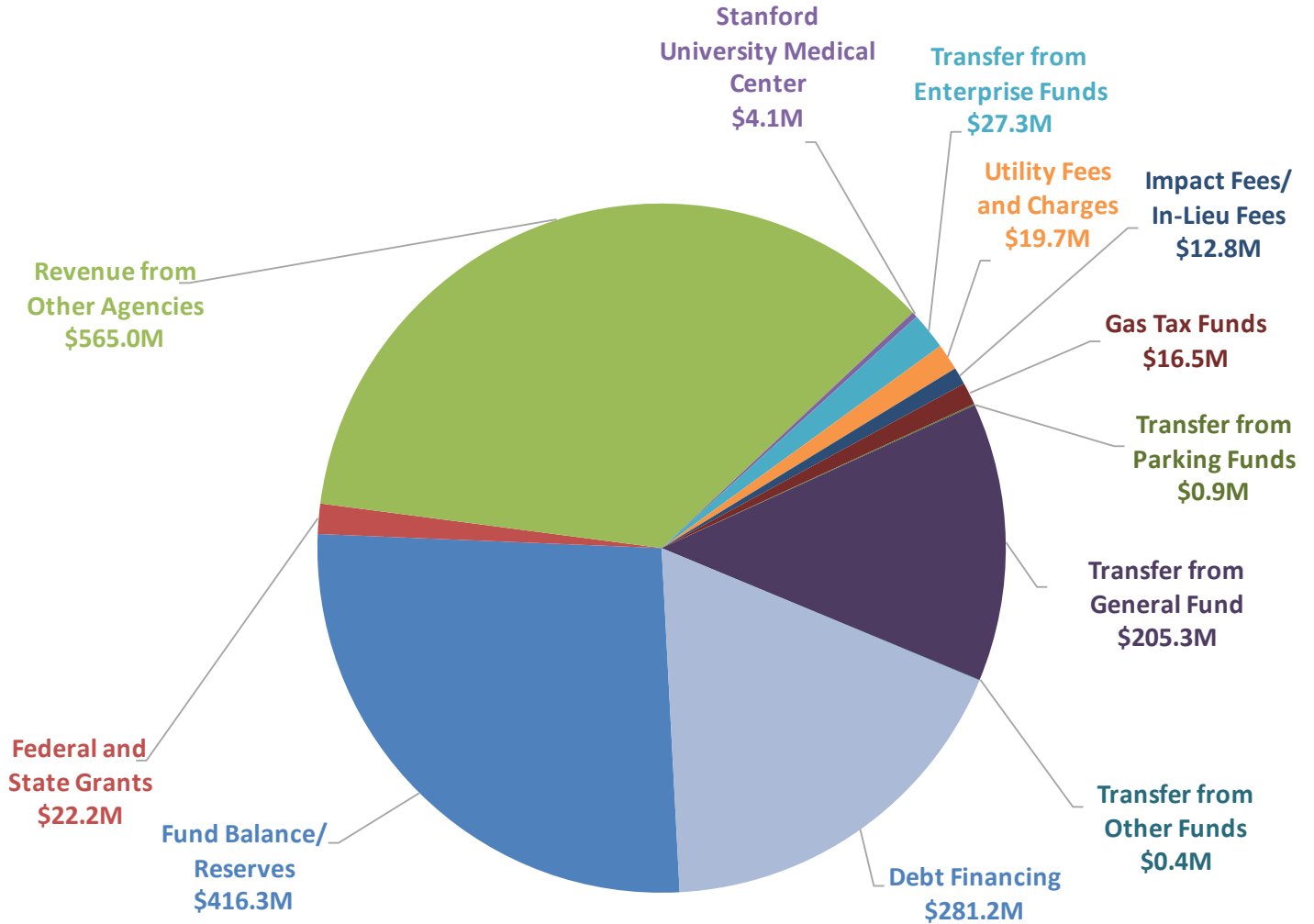
# 2025-2029 Capital Improvement Plan Expenditures by Fund

**2025-2029 CAPITAL IMPROVEMENT PLAN EXPENDITURES BY FUND**  
**\$1.6 BILLION**



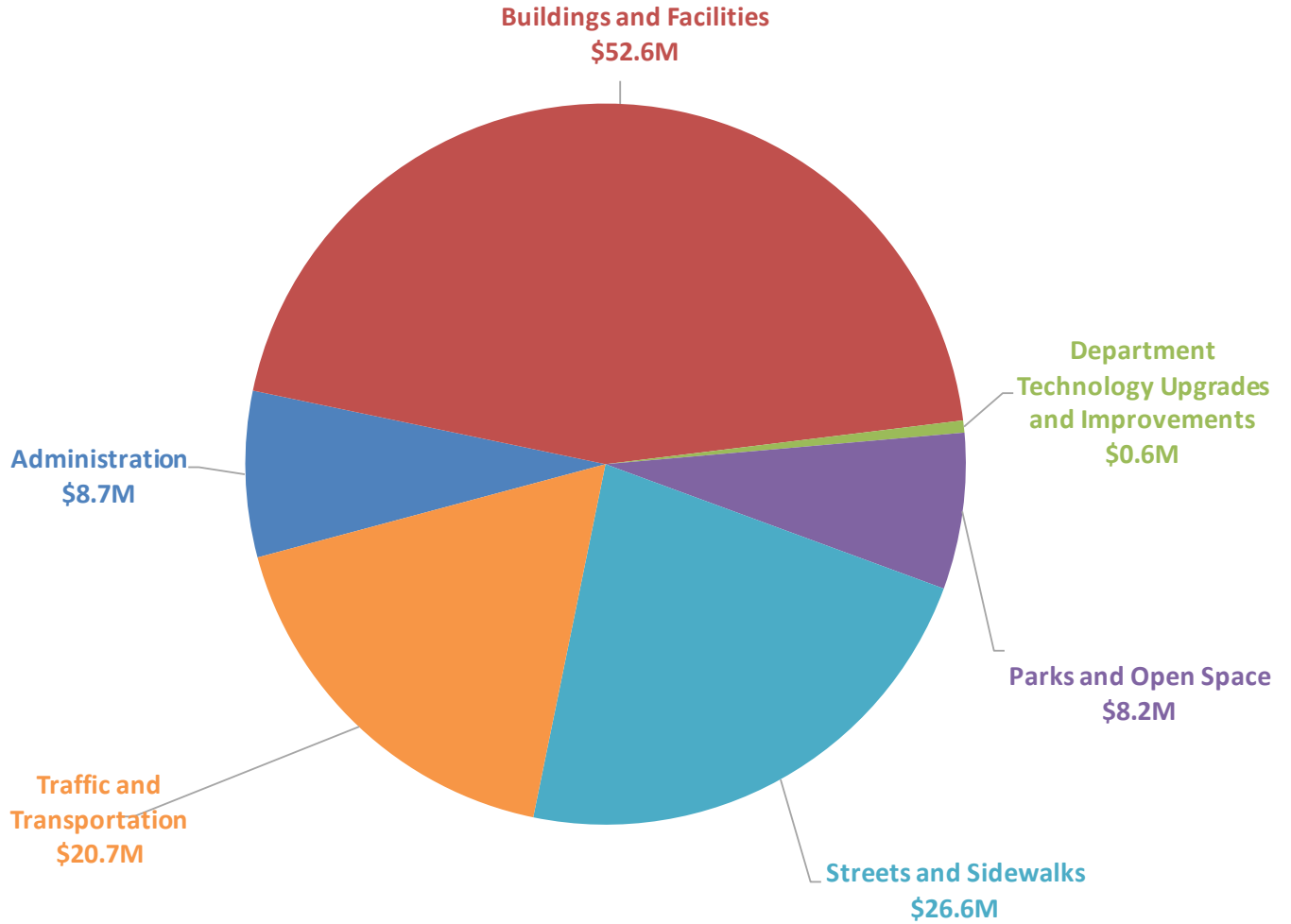
# 2025-2029 Capital Improvement Plan Revenues by Source

**2025-2029 CAPITAL IMPROVEMENT PLAN REVENUES BY SOURCE**  
**\$1.6 BILLION**



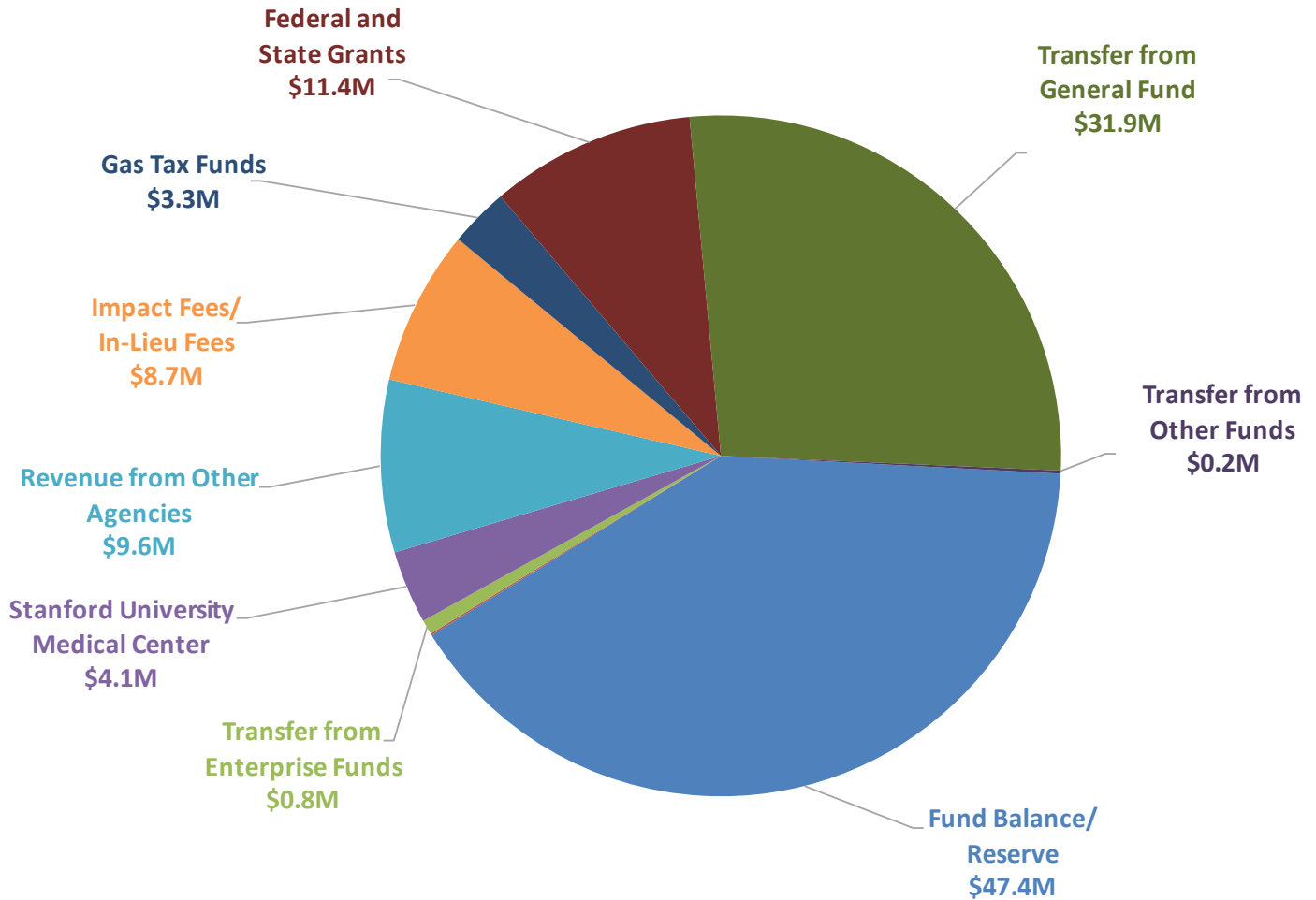
# 2025 Capital Improvement Fund Expenditures by Category

## 2025 CAPITAL IMPROVEMENT FUND EXPENDITURES BY CATEGORY \$117.5 MILLION



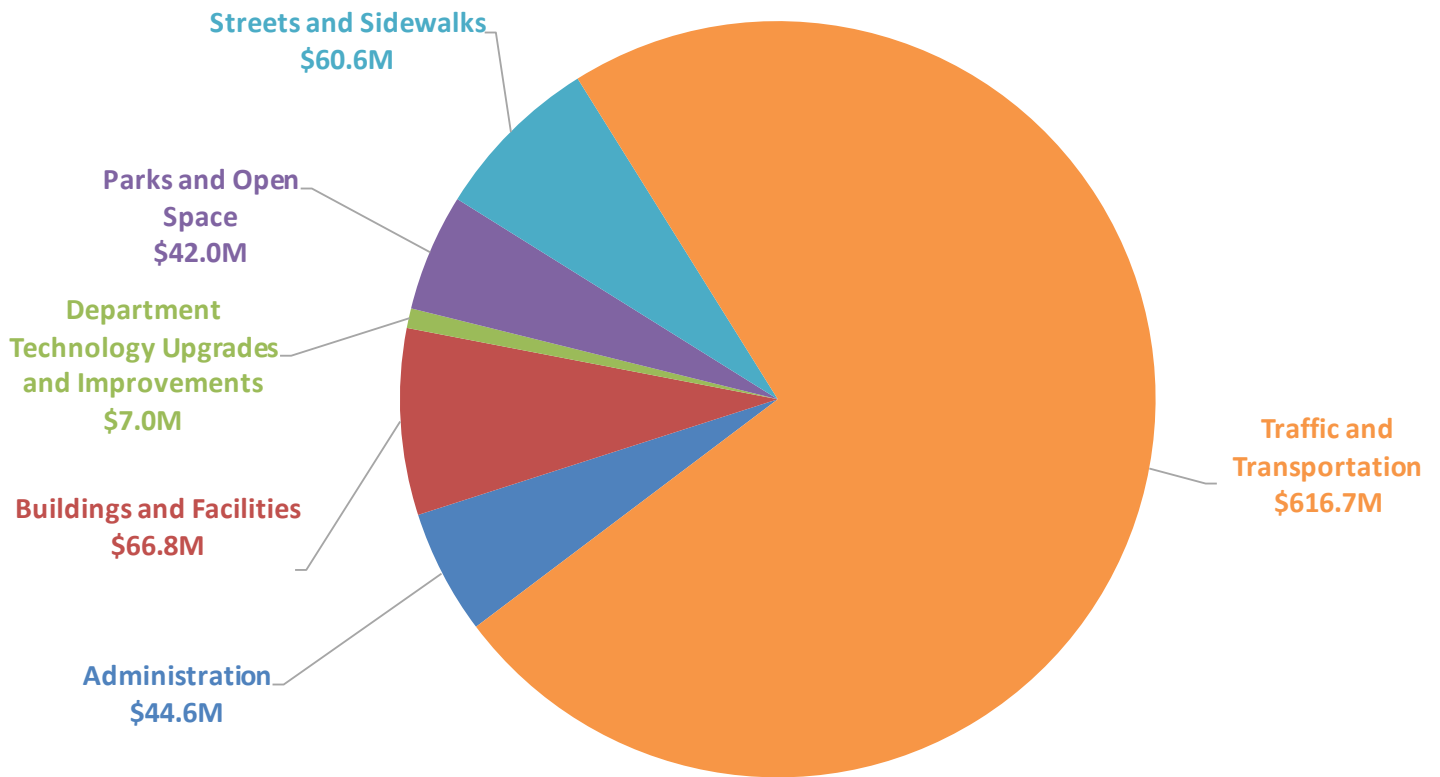
# 2025 Capital Improvement Fund Revenues by Source

**2025 CAPITAL IMPROVEMENT FUND REVENUES BY SOURCE**  
**\$117.5 MILLION**



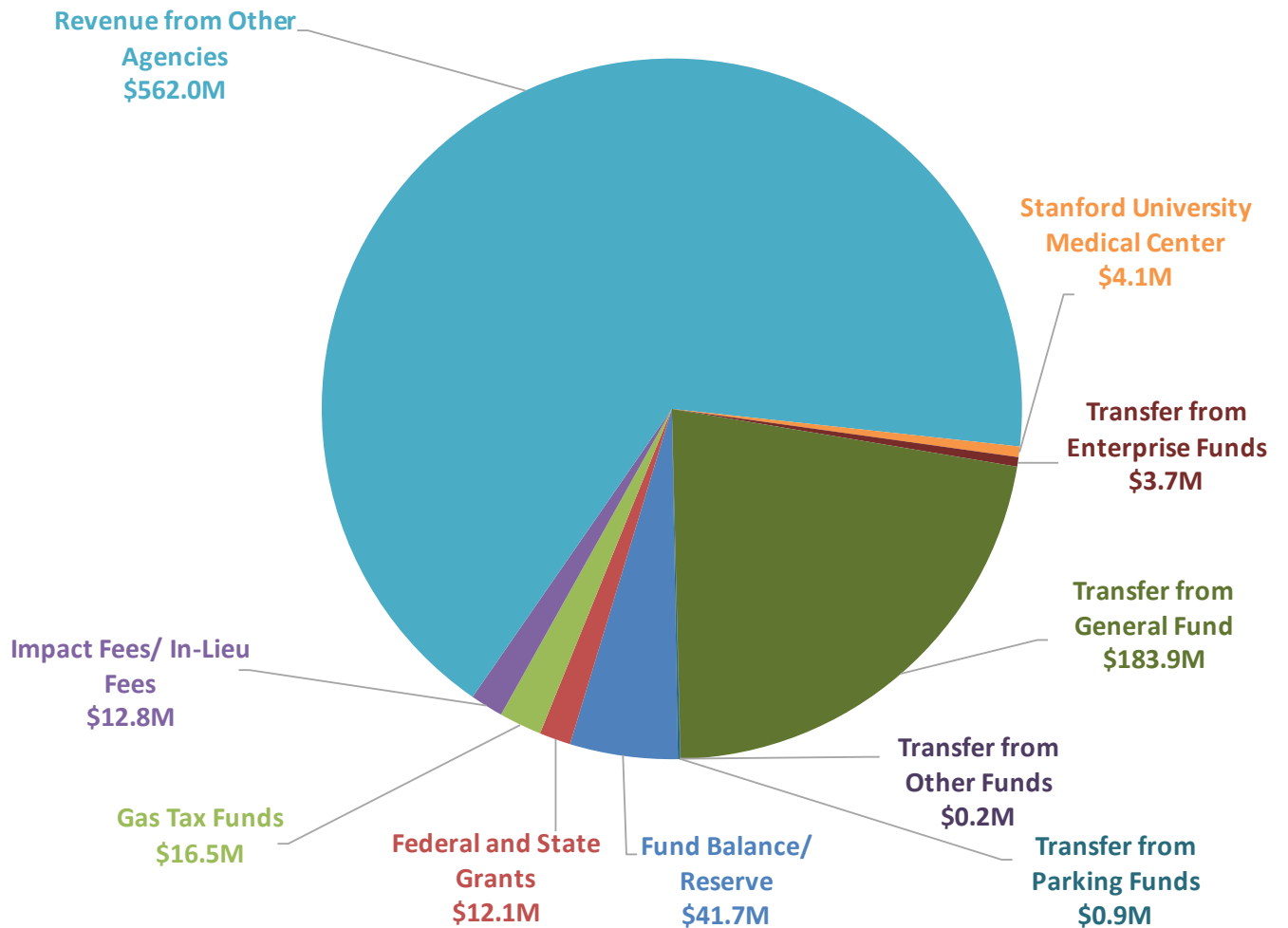
# 2025-2029 Capital Improvement Fund Expenditures by Category

**2025-2029 CAPITAL IMPROVEMENT FUND EXPENDITURES BY CATEGORY**  
**\$837.8 MILLION**



# 2025-2029 Capital Improvement Fund Revenues by Source

**2025-2029 CAPITAL IMPROVEMENT FUND REVENUES BY SOURCE**  
**\$837.8 MILLION**



## Summary of Debt Obligations

	Original Issue Amount	Balance June 30, 2023	Additions	Retirements	Balance June 30, 2024	Current Portion
<b>Governmental Activity Debt:</b>						
<b>General Long Term Obligations:</b>						
<b>2013A General Obligation Bonds</b>						
2.00-5.00%, due 08/01/2041	20,695	11,685	-	505	11,180	525
Add: Unamortized Premium		570	-	31	539	31
<b>2022A General Obligation Bonds</b>						
5.00%, due 08/01/2040	34,435	34,435	-	1,105	33,330	1,380
Add: Unamortized Premium		4,453	-	261	4,192	261
<b>2022B General Obligation Bonds</b>						
4.00%, due 08/01/2028	2,110	2,110	-	-	2,110	-
Add: Unamortized Premium		47	-	9	38	9
<b>2018 Capital Improvement Project Certificates of Participation</b>						
2.20-4.22%, due 11/1/2047	8,970	8,185	-	200	7,985	205
<b>2019 California Avenue Parking Garage Certificates of Participation, Series A &amp; B</b>						
2.5-5%, due 11/1/2048	37,370	35,055	-	690	34,365	720
Add: Unamortized Premium		4,107	-	193	3,914	193
<b>2021 Public Safety Building Certificates of Participation</b>						
2.125-5.00%, due 11/1/2050	101,505	101,505	-	2,135	99,370	2,245
Add: Unamortized Premium		6,039	-	216	5,823	216
<b>Total Governmental Activity Debt</b>	<b>\$205,085</b>	<b>\$208,191</b>	<b>\$0</b>	<b>\$5,344</b>	<b>\$202,847</b>	<b>\$5,784</b>
<b>Business-type Activity Debt:</b>						
<b>Enterprise Long Term Obligations:</b>						
<b>Utility Revenue Bonds,</b>						
1999 Refunding, 3.25-5.25%, due 06/01/2024	17,735	1,795	-	1,795	-	-
2009 Series A, 1.80 - 4.65%, due 06/01/2035	35,015	21,800	-	1,355	20,445	1,420
2011 Series A, 3.00-4.00%, due 06/01/2026	17,225	4,120	-	1,335	2,785	1,370
Add: Unamortized Premium		233	-	82	151	86
<b>State Water Resources Loan</b>						
2007, 0%, due 6/30/2029	9,000	2,700	-	450	2,250	450
2009, 2.6%, due 11/30/2030	8,596	3,968	-	453	3,515	464
2017, 1.8% due 5/31/2049	25,197	22,513	-	687	21,826	699
2021, 0.9% due 12/31/2053	19,400	9,551	4,143	-	13,694	-
2022, 0.8% due 12/31/2059*	193,000	3,607	41,158	-	44,765	-
<b>Total Business-type Activity Debt</b>	<b>\$325,168</b>	<b>\$70,287</b>	<b>\$45,301</b>	<b>\$6,157</b>	<b>\$109,431</b>	<b>\$4,489</b>

\*This loan was requested to be increased to \$193.0 million in December 2022 due to increased project costs, pending final approval from the State Water Resources Board.

## City of Palo Alto Debt Policy

The City of Palo Alto recognizes the need for spending a prudent amount every year for ongoing capital replacement and rehabilitation needs. An ongoing capital improvement plan is vital to ensuring the future viability of services. To achieve this priority, the City funds its regular and ongoing capital needs primarily on a “pay-as-you-go” basis. There are, however, special or extraordinary capital improvement projects, refinancing of existing debt, and purchase of major and multiple pieces of equipment in which it is appropriate to consider debt financing. The City’s Debt Policy establishes the guidelines to support the decision-making process for issuing debt.

### DEBT POLICY GUIDELINES

The City's Debt Policy provides guidelines for refinancing existing debt; detailing the responsibilities of City staff engaged in issuing debt; delineating the debt instruments or vehicles (e.g. General Obligation Bonds or Certificates of Participation) the City can utilize; and describing situations in which tax-exempt and taxable debt can be used. The depth and breadth of the policy serve to guide current and future staff. Below are highlights of the Debt Policy guidelines for the use of debt and other financing.

A. Debt may be judiciously used when some or all of the following conditions exist:

- Estimated future revenue is sufficient to ensure the payment of annual debt service.
- Other financing options have been explored and are not viable for the timely or economic acquisition or completion of a capital project.
- A capital project is mandated by federal or state authorities with no other viable funding option available.
- The capital project or asset lends itself to debt financing rather than pay-as-you-go funding based on the expected useful life of the project.
- Debt will not be used to fund ongoing operating expenses of the City except for situations in which cash flow problems arise and the City may need to issue short-term Tax or Revenue Anticipation Notes.
- Annual debt service shall not exceed 10% of annual operating expenses for the General Fund unless an exception is approved by City Council. For all other City funds annual debt service shall not exceed 15% of annual operating expenses unless an exception is approved by City Council.

B. Minimize borrowing costs by:

- Maximizing the use of existing resources for capital projects and equipment needs.
- Issuing tax-exempt debt except in instances where IRS regulations require taxable bonds.
- Striving to obtain the highest credit ratings possible.
- Maintaining a competitive bid process on bond sales except for situations in which negotiated or private placement sales meet City objectives. In negotiated or private placement sales, City staff will work with its Municipal Advisor (aka Financial Advisor) to review proposed interest rates and proposed fees.
- Ensuring that the type of debt and debt structure developed ensure advantageous marketing of each issue.

C. Linking debt to appropriate revenue sources and project users:

- When possible, tie project financing directly to users of a specific facility or use. Examples include renovation of the Golf Course where user fees can offset debt service or replacing gas mains where gas rates can be increased to cover debt expense.
- Debt financing in the Enterprise Funds so as to avoid significant spikes in user rates by smoothing out costs over time.

In addition to capital projects, the City can finance essential equipment and vehicles. These assets range from public safety vehicles to utility equipment. The underlying asset must have a minimum useful life of three years. Short-term financings, including loans and capital lease purchase agreements, are executed to meet such needs. It has been the City's practice to fund these purchases with existing resources; however, debt financing flexibility for future needs remains an option.

Also, the Chief Financial Officer or Director of Administrative Services, supported by the Treasury Division, will periodically evaluate its existing debt and execute refinancing when economically beneficial. A refinance may include the issuance of bonds to refund existing bonds or the issuance of bonds in order to refund other obligations. A net present value analysis, both in dollar and percentage terms, will be conducted to determine



whether a refinancing is optimal. As a “rule of thumb,” a minimum 3% net present value savings will be used as a basis to begin refinancing efforts. As with new debt, all refinancing must be approved by City Council.

The City’s Debt Policy, approved in April 2017, complies with the state legislature adopted Senate Bill (SB) 1029 (Hertzberg), that requires an issuer to certify that they have adopted a debt policy concerning the use of debt and that the proposed debt issuance is consistent with that policy. This statute also requires reporting to the California Debt and Investment Advisory Commission (CDIAC) such as the submission of annual report for any issue of debt.

### Legal Debt Limit

Based upon the assessed valuation of \$46.5 billion for the fiscal year ending June 30, 2023, the City is limited to general obligation indebtedness of \$1.7 billion per State law. As of June 30, 2023, the amount of debt applicable to the debt limit was \$48.7 million, which is well below the City’s legal debt limit. The debt limit is applicable to voter-approved general obligation (GO) bonds that have been approved in prior years to fund capital improvement projects to renovate and build out the City’s libraries including the Mitchell Park Library and Community Center.

## DEBT OBLIGATION DESCRIPTIONS

### **2010A AND 2013A GENERAL OBLIGATION (GO) BONDS (MITCHELL PARK LIBRARY AND COMMUNITY CENTER)**

On June 30, 2010, the City issued the first series of \$55.3 million and on June 26, 2013 the second series of \$20.6 million of GO bonds to finance costs for constructing a new Mitchell Park Library and Community Center, as well as substantial improvements to the Main Library and the Downtown Library. Principal payments are due annually on August 1 and interest payments semi-annually on February 1 and August 1, from 2.0% to 5.0%, and are payable from property tax revenues.

As of June 30, 2024, for the 2013A Series, \$11.2 million principal and \$5.0 million interest will be the remaining debt service on the bond with final payment occurring in Fiscal Year 2042.

### **2022A AND 2022B GENERAL OBLIGATION (GO) BONDS (MITCHELL PARK LIBRARY AND COMMUNITY CENTER)**

On March 2, 2022, the City Council approved refinancing the \$40.6 million outstanding balance of the 2010A bonds as a tax-exempt bonds, and \$2.4 million of the 2013A bonds as taxable bonds. The tax reform bill passed by Congress in December 2017 prohibits the issuance of tax-exempt advance refunding bonds during the ten-year call protection period. The call protection period passed on the Series 2010A Bonds, but not for the Series 2013A Bonds, so the portions of the Series 2013A bonds that had realized savings were refinanced as taxable bonds. The refinancing resulted in savings, for the Palo Alto property owners, of \$4.5 million in net present value savings or 10.6% over the life of the bonds.

As of June 30, 2024, for the 2022A and 2022B refinanced bonds, \$33.3 million and \$2.1 million in principal and \$15.3 million and \$0.3 million interest will be the remaining debt service on the bonds with the final payment occurring in Fiscal Year 2041 and Fiscal Year 2029 respectively.

### **AD VALOREM PROPERTY TAXES FOR GO BONDS (MITCHELL PARK LIBRARY AND COMMUNITY CENTER)**

The City’s 2013A, 2022A, and 2022B Bonds are general obligations of the City, secured and payable solely from ad valorem property taxes levied by the City and collected by the County of Santa Clara. The City is empowered and obligated to annually levy ad valorem taxes for the payment of the Bonds and the interest

## DEBT POLICY AND OBLIGATIONS

thereon upon all property within the City subject to taxation by the City, without limitation of rate or amount (except certain personal property which is taxable at limited rates) until the final maturity dates of the bonds. For the Fiscal Year 2024, the City expects to receive \$4.0 million in ad valorem property taxes.

### 2018 CAPITAL IMPROVEMENT (GOLF COURSE) PROJECT CERTIFICATES OF PARTICIPATION (COPS)

On June 5, 2018, the City issued taxable (Green Bonds) COPS of \$8.4 million for the renovation of Palo Alto's Municipal Golf Course. Debt service payments are due semi-annually on May 1 and November 1 with true interest costs of 4.14%. The debt service payments are payable solely from and secured by the lease payments to be made by the City's General Fund to the Public Improvement Corporation pursuant to the Lease Agreement. The leased property is the Palo Alto University Fire Station 1.

As of June 30, 2024, for the 2018 COPS Series, \$8.0 million principal and \$4.6 million interest will be the remaining debt service on the bonds with the final payment occurring in Fiscal Year 2048.

### 2019 CALIFORNIA AVENUE PARKING GARAGE CERTIFICATES OF PARTICIPATION (COPS)

On March 21, 2019, the City issued \$26.8 million tax-exempt and \$10.6 million taxable COPS for the construction of a six story (four above ground levels and two below ground levels) parking garage in the California Avenue Business District. The new garage replaced existing surface parking lots at two locations and provided 310 additional parking spaces, totaling 636 parking spaces in the new garage.

Debt service payments on the \$37.4 million COPS are due semi-annually on May 1 and November 1 and have a combined true interest cost (TIC) of 3.75% with the tax-exempt bonds' TIC being 3.52% and taxable bonds' TIC being 4.32%. As of June 30, 2024, for the tax-exempt and taxable bonds, \$25.8 million and \$8.6 million principal and \$15.8 million and \$8.6 million interest will be the remaining debt service on the bonds with the final payment occurring in Fiscal Year 2049 when the COPS mature.

### 2021 PUBLIC SAFETY BUILDING CERTIFICATES OF PARTICIPATION (COPS)

On April 7, 2021, the City issued \$101.5 million tax-exempt COPS for the construction of a new Public Safety Building (PSB) to be built at 250 Sherman Avenue. The building is approximately 56,000 square feet and will house the Police Department, 911 Emergency Dispatch Center, the Emergency Operations Center, the Office of Emergency Services, the administration needs of the Fire Department, and include external support spaces in the basement and operational yard. The PSB will include three levels above grade, two levels below grade, and a one-store operational accessory structure.

Debt service payments on the COPS are due semi-annually on May 1 and November 1 and have a TIC of 2.13%, with the first payment due in Fiscal Year 2023. As of June 30, 2024, for the COPS, \$99.4 million principal and \$35.9 million interest will be the remaining debt service on the bonds with the final payment occurring in Fiscal Year 2051.

### 1999 UTILITY REVENUE AND REFUNDING BONDS, SERIES A

On June 1, 1999 the City issued Utility Revenue Bonds to refund the 1990 Utility Revenue Refunding Bonds, Series A and the 1992 Utility Revenue Bonds, Series A, and to finance rehabilitation of the Wastewater Treatment System's two sludge incinerators. The 1990 Utility Revenue Refunding Bonds, Series A and the 1992 Utility Revenue Bonds, Series A, were subsequently retired. The 1999 Bonds are special obligations of the City payable solely from and secured by a pledge of, and lien upon, certain net revenues derived by the City's sewer system and its storm and surface water system, the Stormwater Management System. As of June 30, 2001, the 1999 Bonds had been allocated to and were repayable from net revenues of the following Enterprise Funds: Wastewater Collection (10.2%), Wastewater Treatment (64.6%) and Stormwater Management (25.2%). Princi-

pal payments are payable annually on June 1, and interest payments semi-annually on June 1 and December 1. In lieu of a reserve fund, the bonds are secured by a Surety Bond issued by AMBAC Indemnity Corporation. This is fully paid as of Fiscal Year 2024.

### 2009 WATER REVENUE BONDS, SERIES A

On October 6, 2009, the City issued Water Revenue Bonds in the amount of \$35.5 million to finance certain improvements to the City's Water utility system. Principal payments are due annually on June 1, and interest payments are due semi-annually on June 1 and December 1, from 1.8% to 6.0%. The final debt service payment will be made in 2035. When these bonds were issued, they were designated as Direct Payment Build America Bonds under the provisions of the American Recovery and Reinvestment Act of 2009 Build America Bonds. The City expected to receive a cash subsidy payment from the United States Treasury equal to 35.0% of the interest payable on the 2009 bonds, however, due to the United States federal government budget (sequestration) cuts in calendar year 2013, the receipts declined to 32.5% in 2013 and were 33.7% in calendar year 2022. The lien on the 1995 Bonds on the net revenues is senior to the lien on net revenues securing the 2009 Bonds and the 2002 Bonds.

The pledge of future net revenues of the above funds ends upon repayment of the \$20.4 million principal and \$7.2 million interest as the remaining debt service on the bonds as of June 30, 2024 with final payment occurring in Fiscal Year 2035.

### 2011 UTILITY REVENUE BONDS, SERIES A

On September 22, 2011 the City issued Utility Revenue Bonds to refinance the 2002 Utility Revenue Bonds, which were issued for certain improvements to the City's Water and Natural Gas utility system. The refinancing resulted in net present value savings of 16.9% and cash savings over 15 years of \$4.0 million. Principal payments are due annually on June 1, and interest payments are due semi-annually on June 1 and December 1 from 3.0% to 4.0%. The Revenue Bonds are secured by net revenues generated by the Water and Gas Funds.

The pledge of future net revenues ends upon repayment of the \$2.8 million principal and \$0.1 million interest remaining debt service on the bonds as of June 30, 2024 with final payment occurring in Fiscal Year 2026.

### 2007 STATE WATER RESOURCES LOAN

In October 2007, the City approved the \$9.0 million loan agreement with State Water Resources Control Board (SWRCB) to finance the City's Mountain View/Moffett Area Reclaimed Water Pipeline Project. Under the terms of the contract, the City agreed to repay \$9.0 million to the State in exchange for receiving \$7.5 million in proceeds to be used to fund the project. The difference between the repayment obligation and proceeds amounts to \$1.5 million and represents in-substance interest on the outstanding balance. Loan proceeds are drawn down as the project progresses and debt service payments commenced on June 30, 2010. Concurrently with the loan, the City entered into various other agreements including a cost sharing arrangement with the City of Mountain View. Pursuant to that agreement, the City of Mountain View agreed to finance a portion of the project with a \$5.0 million loan repayable to the City. This loan has been recorded as Due from Other Government Agencies in the financial statements. The balance due to the City on June 30, 2024 is \$1.5m.

The pledge of future net revenues of the above funds ends upon repayment of the \$2.3 million principal and \$0.5 million in-substance interest as the remaining debt service on the bonds as of June 30, 2024 with final payment occurring in Fiscal Year 2029.

### 2009 STATE WATER RESOURCES LOAN

In October 2009, the City approved an \$8.6 million loan agreement with the State Water Resources Control Board (SWRCB) to finance the City's Ultraviolet Disinfection Project. As of June 30, 2011, the full loan in the

## DEBT POLICY AND OBLIGATIONS

amount of \$8.5 million was drawn down and became outstanding. Interest in the amount of \$96,000 was accrued and added to the outstanding balance.

The pledge of future net revenues of the above funds ends upon repayment of the \$3.5 million principal and \$0.1 million interest as the remaining debt service on the bonds as of June 30, 2024 with final payment occurring in Fiscal Year 2031.

### 2017 STATE WATER RESOURCES LOAN

In June 2017, the State Water Resources Control Board (SWRCB) and the City executed an agreement for an award up to \$30.0 million at a rate of 1.8%, payable over 30 years, with the first annual installment due May 31, 2020 to finance the replacement of sewage sludge bio-solids incinerators at the City's Regional Water Quality Control Plant (RWQCP). In September 2017, due to the projected lower project costs, the agreement was amended to reduce the SWRCB loan amount to \$29.7 million, however the actual loan was \$25.2 million, net of \$4.0 million loan principal forgiveness from the federal funded grant (by the U.S. Environmental Protection Agency) and other adjustments for actual costs.

The new facility will dewater the bio-solids and allow the material to be loaded onto trucks and taken to a separate facility for further treatment. The RWQCP provides treatment and disposal of wastewater for Palo Alto, Mountain View, Los Altos, Los Altos Hills, East Palo Alto Sanitary District, and Stanford University. Though Palo Alto is the recipient of the loan, the City's agreement with the partner agencies obliges them to pay their proportionate share of the principal and interest of this loan. Palo Alto's share of the loan payment is 38.2% with the partner agencies paying 61.8%. The pledge of future net revenues of the above funds ends upon repayment of the \$21.8 million principal and \$5.5 million interest and service charge as the remaining debt service on the bonds as of June 30, 2024 with final payment occurring in Fiscal Year 2049.

### 2021 STATE WATER RESOURCES LOAN

In June 2021, the State Water Resources Control Board (SWRCB) and the City executed an agreement for an award up to \$17.5 million at a rate of 0.9%, payable over 30 years, to finance the rehabilitation of the primary sedimentation tanks and upgrade the equipment room electrical systems at the City's Regional Water Quality Control Plant (RWQCP). In October/November 2022, due to higher cost, this award was amended upward to \$19.4 million; a increase of \$1.9 million. This project provides funding for new protective coatings on each of the four concrete primary sedimentation tanks and replacement of worn rotating parts and aging power distribution equipment.

The RWQCP provides treatment and disposal of wastewater for Palo Alto, Mountain View, Los Altos, Los Altos Hills, East Palo Alto Sanitary District, and Stanford University. Though Palo Alto is the recipient of the loan, the City's agreement with the partner agencies obliges them to pay their proportionate share of the principal and interest of this loan. Palo Alto's share of the loan payment is 38.2% with the partner agencies paying 61.8%. The pledge of future net revenues of the above funds ends upon repayment of the \$19.4 million principal and \$2.8 million interest with final payment occurring in Fiscal Year 2053.

### 2022 STATE WATER RESOURCES LOAN

In May 2022, the State Water Resources Control Board (SWRCB) and the City executed an agreement for an award up to \$168.7 million at a rate of 0.8%, payable over 30 years, with the first annual installment due December 31, 2027 to finance the replacement of biological treatment process (secondary treatment process) at the City's Regional Water Quality Control Plant (RWQCP). The secondary treatment process is being upgraded to meet new, more stringent regulations in conjunction with increased influent flow and wastewater loading due to projected increased population in the RWQCP's service area. The project will also replace aging equipment that is beyond its useful life and in danger of failing. The award amount was recommended to be

amended from \$168.7 million to \$193.0 million in December 2022 due to rising project costs; approval from the SWRCB is pending.

The RWQCP provides treatment and disposal of wastewater for Palo Alto, Mountain View, Los Altos, Los Altos Hills, East Palo Alto Sanitary District, and Stanford University. Though Palo Alto is the recipient of the loan, the City's agreement with the partner agencies obliges them to pay their proportionate share of the principal and interest of this loan. Palo Alto's share of the loan payment is 38.2% with the partner agencies paying 61.8%. The pledge of future net revenues of the above funds ends upon repayment of the \$168.7 million principal and \$21.7 million interest with final payment occurring in Fiscal Year 2057. Should the project cost be less than the awarded loan amount, the final loan amount will be reduced based on the actual construction cost of the secondary treatment process.

### CREDIT RATING AGENCIES

Credit rating is a critical component of strong municipal management. According to Moody's Investors Service, reserves are an important factor in the analysis of a municipality's fiscal health and, therefore, a jurisdiction's fiscal policies should include a plan for maintaining reserves. Rating agencies view sound reserves favorably, thus improving a municipality's rating and its ability to obtain low-cost financing for important projects. The City is proud to report that both Moody's and Standard and Poor's (S&P) awarded their highest credit ratings, Triple A, to the City's General Obligation Bonds for library and community center capital improvements in 2010 and 2013 and reaffirmed these ratings a few times, the last one being in May 2022 by S&P and March 2024 by Moody's. The COPS were also rated AA+ and Aa1 by both Moody's and S&P at this time. COPS are rated on a sliding scale, and this is the highest rating possible for these bonds. These ratings demonstrate that Palo Alto's prudent financial management and fiscal strength are viewed favorably by credit agencies. The three Utility bonds (1999, 2009, & 2011) that are rated also received S&P's highest credit rating of Triple A. Moody's has rated these Utility bonds with their second highest (Aa1) or third highest (Aa2) ratings.



CITY OF  
**PALO  
ALTO**



# CAPITAL FUND PROJECTS





CITY OF  
**PALO  
ALTO**



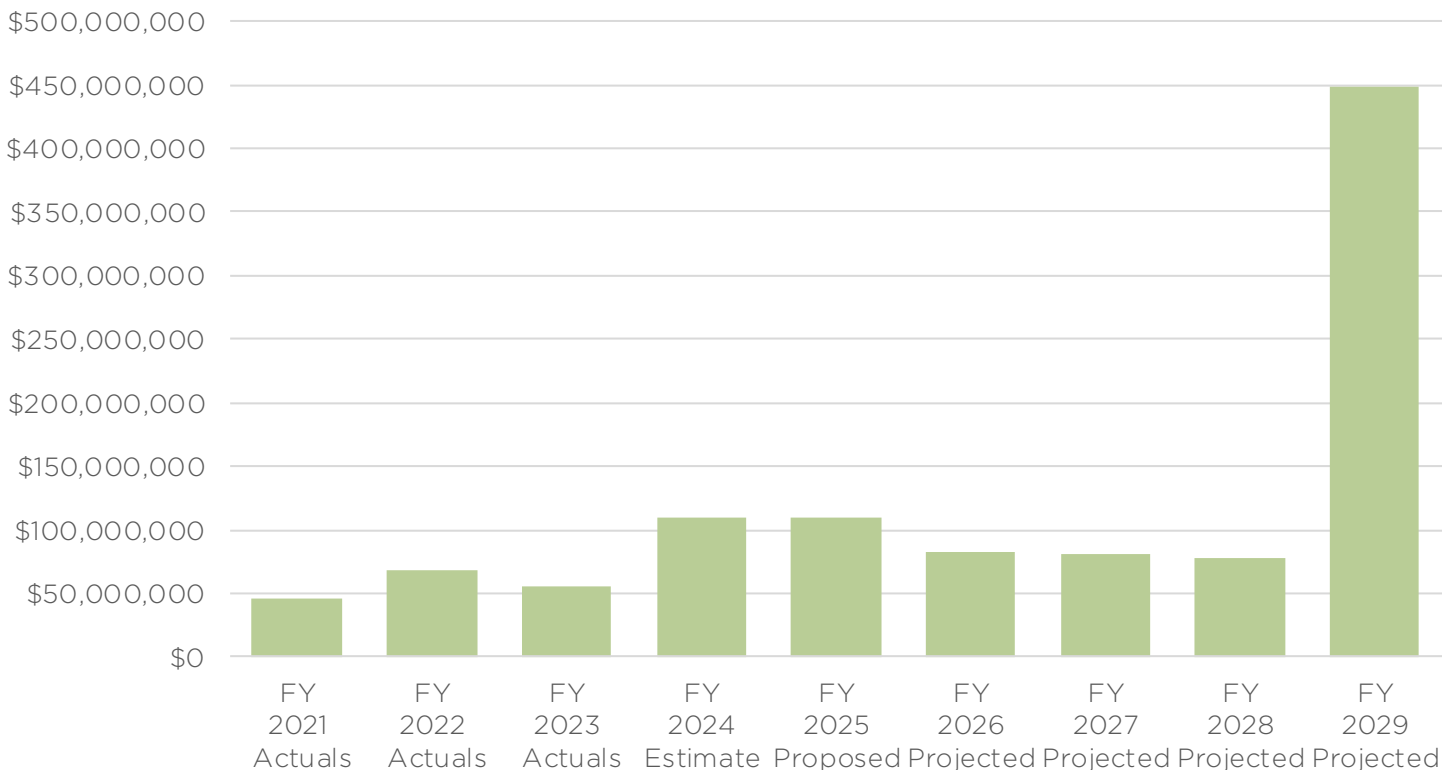
# CAPITAL IMPROVEMENT FUND

# CAPITAL IMPROVEMENT FUND

## Overview

The Capital Improvement Fund accounts for general capital investments in Palo Alto that are not funded through enterprise or internal service fund activities. This fund is equivalent to the General Fund Operating Budget, however, it is focused on capital investments. Examples of projects accounted for within the Capital Improvement Fund include street maintenance, traffic signal and sidewalk modifications, park renovations, and improvements to libraries, community centers, and public safety facilities. Projects to improve the Cubberley Community Center are discussed in the Cubberley Property Infrastructure Fund section of this document. For the entire Capital Improvement Fund, \$837.8 million is programmed over the 2025-2029 CIP, including 101 projects totaling \$800.8 million. Of this amount, \$110.1 million is appropriated for Fiscal Year 2025 which includes \$56.2 million recommended to be reappropriated for the continuation of projects approved by the City Council in prior fiscal years. The budget for the Capital Improvement Fund is divided into six categories: Administration, Buildings and Facilities, Department Technology Upgrades and Improvements, Parks and Open Space, Streets and Sidewalks, and Traffic and Transportation. The primary funding source for the Capital Improvement Fund is the annual fund-level transfer from the General Fund. In Fiscal Year 2025, this transfer will be \$29.4 million, which includes the annual base transfer of \$13.7 million, the City Council approved Transient Occupancy Tax transfer of \$13.7 million to support the City Council approved Infrastructure Plan, and estimated interest earnings of \$2.0 million. Other major sources of funding include transfers of Utility Users Tax and Measure K Business Tax from the General Fund; grants from federal, state, and local agencies; and transfers from the Stanford University Medical Center (SUMC) development agreement, the Gas Tax Fund, and various impact fee funds and enterprise funds.

## Capital Improvement Fund Expenditures



The Infrastructure Plan (IP), consists of ten top priority capital projects accounted for within the Capital Improvement Fund. The first nine were recommended by the Council Infrastructure Committee and approved by the Council in June 2014, with a tenth project, the Downtown Automated Parking Guidance Systems, Access Controls & Revenue Collection Equipment (PL-15002), approved and added as part of the 2020-2024 CIP. The Infrastructure Plan is estimated at \$272.8 million, with \$29.1 million programmed over the 2025-2029 CIP.

The Infrastructure Plan includes the following projects:

- New public safety building
- Two fire station replacements
- Charleston/Arastradero Corridor Improvements
- Bicycle and Pedestrian Transportation Plan
- Highway 101 Pedestrian/Bicycle Bridge
- New parking garage in the downtown area
- New garage in the California Avenue area
- Completion of Byxbee Park
- Enhanced parking systems and revenue collections equipment in the Downtown area

The Fire Station #3 Replacement Project (PE-15003) was the first of the IP projects to begin construction in Fiscal Year 2018 and was completed in March 2020. The construction for Phases 1 and 2 of the Charleston/Arastradero Corridor Project (PE-13011) began in Summer 2018 and was completed in December 2019. The final phase of the Charleston/Arastradero Corridor Project is currently under construction and will be completed in Spring 2024. The New California Avenue Area Parking Garage (PE-18000) project began construction in Fiscal Year 2019 and was completed in December 2020, although funding is budgeted in FY 2025 for completion of final punch list items. The Highway 101 Pedestrian/Bicycle Bridge (PE-11011) construction started in January 2020 and was completed in November 2021. Construction started in 2021 on the New Public Safety Building (PE-15001) with completion anticipated in Fall 2024. The Downtown Automated Parking Guidance Systems (PL-15002) started design in July 2023 and is anticipated to be completed in Winter 2024. Design started on Fire Station #4 Replacement (PE-18004) in June 2022 with anticipated construction contract award in Fall 2024 and completion in Summer 2026. Additional information on the status of all the IP projects can be found on the City's website: [www.infrastructure.cityofpaloalto.org](http://www.infrastructure.cityofpaloalto.org)

## Buildings and Facilities

The Buildings and Facilities category includes projects to maintain the City's existing buildings and facilities as well as projects that provide funding for new facilities. Buildings and facilities include City Hall, other City staff office locations, community centers, libraries, theaters, fire stations, park restrooms, parking garages, and City-owned facilities leased to private parties. Projects to improve the Cubberley Community Center are included separately within the Cubberley Property Infrastructure Fund and discussed elsewhere in this document. The 2025-2029 CIP includes projects totaling \$66.8 million in this category, with \$52.6 million allocated in Fiscal Year 2025. Of this amount, \$33.6 million is recommended to be reappropriated for the continuation of projects approved by the City Council in prior fiscal years. The Buildings and Facilities category includes the following Council Infrastructure Plan projects: Public Safety Building, Fire Station #3 Replacement, Fire Station #4 Replacement, Downtown Parking Garage, and California Avenue Area Parking Garage. These projects account for \$21.9 million in the 2025-2029 CIP or 75.3 percent of the remaining Infrastructure Plan costs. The total funding amount of \$66.8 million for Building and Facilities over the 2025-2029 CIP represents approximately 8.3 percent of the total Capital Improvement Fund CIP.

# CAPITAL IMPROVEMENT FUND

## Infrastructure Inventory - Summary of Buildings & Facilities

CLASSIFICATION	QUANTITY	SQUARE FOOTAGE
Civic Center & Municipal Services Center	2	239,534
Community Centers	3	146,435
Libraries	5	91,916
Fire Stations	7	34,898
Parking Garages	8	1,245,786

### Recent Accomplishments

- Completed the Water, Gas, Wastewater Office Remodel (PE-19001).

## 2025-2029 Capital Improvement Program

### Recurring Projects

There are nine recurring projects in the Buildings and Facilities category:

- Americans With Disabilities Act Compliance (Fiscal Year 2025: \$0.9 million; 5-Year CIP: \$3.0 million)
- Building Systems Improvements (Fiscal Year 2025: \$1.3 million; 5-Year CIP: \$2.0 million)
- California Avenue Parking District Parking Improvements (Fiscal Year 2025 and 5-Year CIP: \$0.1 million)
- City Facility Parking Lot Maintenance (Fiscal Year 2025: \$0.6 million; 5-Year CIP: \$2.2 million)
- Electric Charger Infrastructure Installation (Fiscal Year 2025 and 5-Year CIP: \$0.3 million)
- Electrification of City Facilities (Fiscal Year 2025: \$0.9 million; 5-Year CIP: \$1.3 million)
- Facility Interior Finishes Replacement (Fiscal Year 2025: \$0.6 million; 5-Year CIP: \$1.0 million)
- Roofing Replacement (Fiscal Year 2025: \$1.3 million; 5-Year CIP: \$3.5 million)
- University Avenue Parking Improvements (Fiscal Year 2025: \$0.2 million; 5-Year CIP: \$1.0 million)

Activities planned for Fiscal Year 2025 under these projects include work on the City Hall fire pump control system, replacement of fire panels throughout the city to non-proprietary systems, completion of BMS controls replacement for the Lucie Stern Community Theater which commenced in FY 2024, replacement of media fill in the City Hall cooling tower, re-carpeting of the Children's Library, and re-roofing the Lucie Stern Community Theater. Finally, the Americans with Disabilities Act (ADA) Compliance project will begin to implement the updates recommended in the ADA Transition Plan.

### Non-Recurring Projects

Major activities planned for Fiscal Year 2025 include the completion of construction on the Public Safety Building project, beginning of construction on the Fire Station 4 Replacement project, and completion of the Municipal Service Center (MSC) Electrical and Mechanical Upgrade project.

## Department Technology Upgrades and Improvements

The Department Technology Upgrades and Improvements category includes projects to replace public safety related technology equipment based on its useful life and standard replacement schedule. In the 2025-2029 CIP, there are three projects in this category, including one for the Fire Department and two for the Police Department. The total funding amount of \$7.0 million for Department Technology Upgrades and Improvements over the 5-Year CIP represents 0.9 percent of the total Capital Improvement Fund CIP.

## 2025-2029 Capital Improvement Program

### Recurring Projects

The equipment replaced by these projects will be programmed on a regular replacement schedule to ensure equipment remains within its useful life.

- Fire Equipment Replacement (Fiscal Year 2025: \$0.1 million; 5-Year CIP: \$3.3 million)
- Police Video Recording Systems Replacement (Fiscal Year 2025: \$0.2 million; 5-Year CIP: \$1.0 million)

### Non-Recurring Projects

The Police Department’s City Radio Replacement Project (Fiscal Year 2025: \$0.3 million; 5-Year CIP: \$2.7 million) will replace the the digital radios used by various departments within the City.

## Parks and Open Space

Maintenance, repair, and replacement of parks and open space amenities are managed jointly by the Community Services and Public Works Departments. Generally, Community Services oversees smaller projects as well as recurring projects while Public Works Engineering Services facilitates major one-time projects. The 2025-2029 CIP includes funding totaling \$42.0 million in this category, with \$8.2 million allocated in Fiscal Year 2025. Of this amount, \$3.3 million is recommended to be reappropriated for the continuation of projects approved by the City Council in prior fiscal years. The Parks and Open Space category includes the Council Infrastructure Plan project for Byxbee Park Completion. This project accounts for \$3.3 million or 11.5% of the remaining Infrastructure Plan costs. The total funding amount of \$42.0 million for Parks and Open Space over the 5-Year CIP represents approximately 5.3% of the total Capital Improvement Fund CIP.

### Infrastructure Inventory - Summary of Parks & Open Space

CLASSIFICATION	QUANTITY
Parks	32
City Open Space/Conservation Lands	4
Parks, Preserves, and Open Space Acreage	4,385
Picnic Areas	39
Athletic Fields	33

### Recent Accomplishments

- Awarded construction contracts for two park restroom buildings at Rinconada Park and Ramos Park, with anticipated installation in Summer 2024.
- Lytton Plaza site improvements: repaired the fountain and pavers.
- Replaced Sunfish Island Bridge in Foothills Nature Preserve.
- Site improvements made to pickleball picnic site at Mitchell Park with installation of bike racks, tree gates, and three waste-sort containers.
- Reconstructed basketball courts at Greer Park and resurfaced courts at Johnson Park and Terman Park/ Fletcher Middle School.
- Replaced two culverts in Foothills Nature Preserve at Las Trampas.
- Replaced slide at Rinconada Pool.

# CAPITAL IMPROVEMENT FUND

## 2025-2029 Capital Improvement Program

### Recurring Projects

There are nine recurring projects in the Parks and Open Space category:

- Art in Public Spaces (Fiscal Year 2025: \$0.2 million; 5-Year CIP: \$0.7 million)
- Athletic Courts Resurfacing (Fiscal Year 2025: \$0.2 million; 5-Year CIP: \$1.3 million)
- Benches, Signage, Fencing, Walkways, Perimeter Landscaping, and Site Amenities (Fiscal Year 2025: \$0.2 million; 5-Year CIP: \$1.0 million)
- Dog Park Installation and Renovation (Fiscal Year 2025: \$0; 5-Year CIP: \$0.3 million)
- Off Road Pathway Resurfacing and Repair (Fiscal Year 2025: \$0.3 million; 5-Year CIP: \$0.8 million)
- Open Space Lakes and Ponds Maintenance (Fiscal Year 2025: \$0.1 million; 5-Year CIP: \$0.3 million)
- Open Space Trails and Amenities (Fiscal Year 2025: \$0.2 million; 5-Year CIP: \$1.2 million)
- Parks and Open Space Emergency Repairs (Fiscal Year 2025: \$0.3 million; 5-Year CIP: \$1.5 million)
- Park Restroom Installation (Fiscal Year 2025: \$0.7 million; 5-Year CIP: \$2.0 million)

### Non-Recurring Projects

Significant projects in this category during the 2025-2029 CIP include improvements at various parks such as Peers, Seale, Werry, Heritage, Boulware, Bol, and Johnson. Other investments in parks and open space areas are also included in the CIP, such as phase two improvements at Rinconada Park, Foothills Nature Preserve, and Byxbee Park. Funding in the five-year CIP includes \$3.3 million for the Byxbee Park Completion project which is part of the Infrastructure Plan and mostly offset with funds from Park Dedication Impact Fees. There are also plans for replacement of artificial turf fields at Stanford Palo Alto Community Playing Fields and installation of a family changing room at Rinconada Pool.

## Streets and Sidewalks

The Streets and Sidewalks category includes projects to maintain and repair the City's streets, sidewalks, bridges, streetlights, and other related infrastructure such as curbs and gutters, medians, and thermoplastic lane markings. The 2025-2028- CIP includes funding totaling \$60.6 million in this category, with \$26.6 million allocated in Fiscal Year 2025. Of this amount, \$16.2 million is recommended to be reappropriated for the continuation of projects approved by the City Council in prior fiscal years. The total funding amount of \$60.6 million for Streets and Sidewalks over the 5-Year CIP represents approximately 7.6% of the total Capital Improvement Fund CIP.

The City reached its goal of raising the citywide average Pavement Condition Index (PCI) score from 72 to 85 in 2018. A PCI score of 85 represents "very good" to "excellent" pavement conditions. The Sidewalks program achieved its 1986 goal of completing work in all 23 sidewalk districts by 2016, and an assessment study for sidewalk repairs was completed in early 2019 and offered suggestions for establishing goals and priorities for the sidewalk repair project moving forward.

### Infrastructure Inventory - Summary of Streets and Sidewalks

CLASSIFICATION	QUANTITY
Streets maintained	471 lane miles
Sidewalks maintained	7.5 million square feet
Streetlights maintained	6,500
Bridges maintained	180

## Recurring Projects

There are eight recurring projects in the Streets and Sidewalks category:

- City Bridge Improvements (Fiscal Year 2025: \$1.6 million; 5-Year CIP: \$2.6 million)
- Curb and Gutter Repairs (Fiscal Year 2025: \$0.1 million; 5-Year CIP: \$0.7 million)
- San Francisquito Creek Joint Powers Authority Ongoing Creek Projects (Fiscal Year 2025: \$0.2 million; 5-Year CIP: \$0.9 million)
- Sidewalk Repairs (Fiscal Year 2025: \$1.6 million; 5-Year CIP: \$8.2 million)
- Sign Reflectivity Upgrade (Fiscal Year 2025: \$0.1 million; 5-Year CIP: \$0.3 million)
- Street Lights Improvements (Fiscal Year 2025: \$0.4 million; 5-Year CIP: \$1.3 million)
- Street Maintenance (Fiscal Year 2025: \$5.5 million; 5-Year CIP: \$29.1 million)
- Thermoplastic Lane Marking and Striping (Fiscal Year 2025: \$0.1 million; 5-Year CIP: \$0.7 million)

Activities for Fiscal Year 2025 under these projects consist of ongoing planned repair activities, as well as providing funding for unplanned needs that may arise. The Street Maintenance project will continue to implement its five-year plan in close coordination with Utilities and Transportation projects. With the Pavement Condition Index (PCI) goal met in 2018, the annual Street Maintenance project budget is funded at a level sufficient to maintain the new street conditions while continuing to focus on streets that have a PCI score of less than 60. The passage of SB1 for Road Maintenance and Rehabilitation provides additional annual funding of approximately \$1.4 million to supplement and enhance the City's Street Maintenance program, allowing funds to be reallocated to other capital projects with Council approval.

## Non-Recurring Projects

While most Streets and Sidewalks work is completed through recurring projects, there are non-recurring projects with activities planned for Fiscal Year 2025, such as the Street Lights Condition Assessment project, which will compile an inventory of the City's entire lighting system to determine the best approach to prolong the life of the system; the Newell Road/San Francisquito Creek Bridge Replacement project, which will remove and replace the Newell Road bridge over San Francisquito Creek; and the California Avenue District Gateway Signs project, which will place two gateway monument signs in the California Avenue District.

## Traffic and Transportation

Projects in this category support the development and implementation of a sustainable transportation system, including walking, biking, ridesharing, transit, and other methods of non-single occupancy vehicle (SOV) transportation. This category also includes rail grade separation projects to redesign and update the four at grade CalTrain railroad crossings in Palo Alto. Planning, design, and construction of Traffic and Transportation projects are managed jointly by the Office of Transportation and the Public Works Department. The 2025-2029 CIP includes funding totaling \$616.7 million in this category, with \$20.7 million allocated in Fiscal Year 2025. Of this amount, \$3.1 million is recommended to be reappropriated for the continuation of projects approved by the City Council in prior fiscal years. The Traffic and Transportation category includes the following Council Infrastructure Plan projects: Bicycle and Pedestrian Transportation Plan Implementation project; Charleston/Arastradero Corridor project; Downtown Automated Parking Guidance Systems, Access Controls & Revenue Collection Equipment project; and the Highway 101 Pedestrian/Bicycle Overpass project. These projects account for \$3.8 million or 13.2 percent of the remaining Infrastructure Plan costs. The total funding amount of \$616.7 million for Traffic and Transportation over the 5-Year CIP represents approximately 77.0 percent of the total Capital Improvement Fund CIP.

# CAPITAL IMPROVEMENT FUND

## Recent Accomplishments

- Started construction on Churchill Avenue/Alma Street Railroad Crossing Safety Improvements (PL-20000), with anticipated completion in Fall 2024.

## 2025-2029 Capital Improvement Program

### Recurring Projects

There are five recurring projects within the Traffic and Transportation category.

- Bicycle and Pedestrian Transportation Plan Implementation (Fiscal Year 2025: \$2.9 million; 5-Year CIP: \$3.8 million)
- Parking District Implementation (Fiscal Year 2025: \$0.2 million; 5-Year CIP: \$0.3 million)
- Safe Routes to Schools (Fiscal Year 2025: \$0.1 million; 5-Year CIP: \$0.6 million)
- Traffic Signal and Intelligent Transportation Systems (Fiscal Year 2025: \$1.0 million; 5-Year CIP: \$4.1 million)
- Transportation and Parking Improvements (Fiscal Year 2025: \$0.4 million; 5-Year CIP: \$2.4 million)

Together, these projects improve transportation and safety and implement the Palo Alto Bicycle and Pedestrian Plan. The Bicycle and Pedestrian Transportation Plan Implementation project is part of the Infrastructure Plan and provides funding for the design and construction of bicycle boulevards, enhanced bikeways, shared-use paths, bicycle parking, and a citywide bicycle sharing system.

### Non-Recurring Projects

Non-recurring projects within this category include parking, intersection, and street projects. These projects account for discrete activities such as parking signage, parking wayfinding, intersection improvements, railroad grade separation, or projects outside of the Bicycle and Pedestrian Transportation Plan such as:

- Charleston Road/Alma Street Railroad Crossing Safety Improvements (Fiscal Year 2025: \$0.5 million; 5-Year CIP: \$1.3 million)
- Churchill Avenue Enhanced Bikeway (Fiscal Year 2025 and 5-Year CIP: \$1.4 million)
- Churchill Avenue Rail Grade Separation and Safety Improvements (Fiscal Year 2025: \$3.9 million; 5-Year CIP: \$194.4 million)
- Churchill Avenue/Alma Street Railroad Crossing (Fiscal Year 2025: \$0.7 million; 5-Year CIP: \$3.8 million)
- Meadow Drive and Charleston Road Rail Grade Separation and Safety Improvements (Fiscal Year 2025: \$6.6 million; 5-Year CIP: \$395.5 million)
- Railroad Grade Separation and Safety Improvements (Fiscal Year 2025: \$1.1 million; 5-Year CIP: \$6.7 million)
- Traffic Intersection Accessibility Improvement (Fiscal Year 2025 and 5-Year CIP: \$0.6 million)

These projects improve roadways, bikeways, and other transportation related areas such as at grade railroad crossings in order to improve the flow of traffic and the safety of commuters in and around the City. Previously, the four at-grade rail crossing locations were all budgeted in one Railroad Grade Separation and Safety Improvements project (PL-17001). Since grade separation moved into a more formal design phase in FY 2024, separate projects were established then for Churchill Avenue (PL-24001) and Meadow Drive and Charleston Road (PL-24000) to track the costs and revenue associated each location more discreetly moving forward. The Palo Alto Avenue crossing is currently on hold and any work for this location will continue to be tracked in PL-17001.



# CAPITAL IMPROVEMENT FUND

## Capital Improvement Fund

Project Number	Project Title	FY 2024 Budget	FY 2024 Estimate	FY 2025 Proposed	FY 2026	FY 2027	FY 2028	FY 2029	5-Year Total
<b>Beginning Fund Balance</b>									
	Infrastructure Reserve - Beginning Fund Balance	62,271,909	62,271,909	37,138,532	2,404,494	4,260,797	3,954,005	6,168,323	37,138,532
	Reserve: Debt Service	3,700,000	3,700,000	3,700,000	3,700,000	5,000,000	7,400,000	7,400,000	3,700,000
	Reserve: Infrastructure Plan	40,294,057	40,294,057	15,308,938	2,658,000	0	0	0	15,308,938
	Reserve: Roth Building & Sea Scout Building TDRs	5,294,286	5,294,286	0	0	0	0	0	0
<b>Total Beginning Fund Balance</b>		<b>\$111,560,252</b>	<b>\$111,560,252</b>	<b>\$56,147,470</b>	<b>\$8,762,494</b>	<b>\$9,260,797</b>	<b>\$11,354,005</b>	<b>\$13,586,323</b>	<b>\$56,147,470</b>
<b>General Fund Contributions</b>									
	Base General Fund Capital Transfer	12,476,000	12,476,000	13,747,000	16,711,000	17,145,000	17,659,000	18,189,000	83,447,000
	Transfer from General Fund - TOT Funding (12%)	6,328,618	6,328,618	7,378,879	7,774,206	8,230,324	8,590,538	8,976,732	40,950,679
	Transfer from General Fund - TOT Funding (3.5%)	5,768,661	5,768,661	6,289,832	6,650,172	7,065,923	7,394,257	7,746,272	35,146,457
	Interest Income	1,514,200	1,514,200	1,988,600	1,988,600	1,988,600	1,988,600	1,988,600	9,943,000
<b>Total General Fund Contributions</b>		<b>\$26,087,479</b>	<b>\$26,087,479</b>	<b>\$29,400,312</b>	<b>\$33,123,977</b>	<b>\$34,429,847</b>	<b>\$35,632,396</b>	<b>\$36,900,604</b>	<b>\$169,487,136</b>
<b>SOURCE OF FUNDS</b>									
<b>Revenue from Other Agencies</b>									
<b>PL-04010</b>	Bicycle and Pedestrian Transportation Plan Implementation	334,852	334,852	0	0	0	0	0	0
<b>PL-24001</b>	Churchill Avenue Rail Grade Separation and Safety Improvements	3,000,000	3,000,000	2,000,000	14,000,000	14,000,000	14,000,000	135,800,000	179,800,000
<b>PL-20000</b>	Churchill Avenue/Alma Street Railroad Crossing Safety Improvements	4,456,356	4,456,356	591,550	1,391,200	1,391,200	0	0	3,373,950
<b>PE-17010</b>	Civic Center Electrical Upgrade & EV Charger Installation	174,000	174,000	0	0	0	0	0	0
<b>FD-25000</b>	Fire Equipment Replacement	0	0	16,480	270,695	121,280	38,080	24,160	470,695
<b>PL-24000</b>	Meadow Drive and Charleston Road Rail Grade Separation and Safety Improvements	4,500,000	4,500,000	4,500,000	28,000,000	28,000,000	28,000,000	279,300,000	367,800,000
<b>PL-17001</b>	Railroad Grade Separation and Safety Improvements	999,999	999,999	1,000,000	2,000,000	2,000,000	1,000,000	0	6,000,000
<b>PF-23001</b>	Roth Building Rehabilitation Phase 1	2,869,415	2,869,415	0	0	0	0	0	0
<b>PE-86070</b>	Street Maintenance	465,000	465,000	465,000	465,000	465,000	465,000	465,000	2,325,000
<b>PL-25001</b>	Traffic Intersection Accessibility Improvement Project	0	0	500,000	0	0	0	0	500,000
<b>PL-05030</b>	Traffic Signal and Intelligent Transportation Systems	1,301,500	1,301,500	550,000	300,000	300,000	300,000	300,000	1,750,000
<b>PL-12000</b>	Transportation and Parking Improvements	733,833	733,833	0	0	0	0	0	0
<b>Revenue from Other Agencies Total</b>		<b>\$18,834,955</b>	<b>\$18,834,955</b>	<b>\$9,623,030</b>	<b>\$46,426,895</b>	<b>\$46,277,480</b>	<b>\$43,803,080</b>	<b>\$415,889,160</b>	<b>\$562,019,645</b>
<b>Revenue from the Federal Government</b>									
<b>PL-25002</b>	Charleston Road/Alma Street Railroad Crossing Safety Improvements	0	0	483,100	682,400	0	0	0	1,165,500
<b>AC-18001</b>	JMZ Renovation	76,844	76,844	0	0	0	0	0	0

# CAPITAL IMPROVEMENT FUND

## Capital Improvement Fund *(Continued)*

Project Number	Project Title	FY 2024 Budget	FY 2024 Estimate	FY 2025 Proposed	FY 2026	FY 2027	FY 2028	FY 2029	5-Year Total
PL-12000	Transportation and Parking Improvements	160,000	160,000	0	0	0	0	0	0
<b>Revenue from the Federal Government Total</b>		<b>\$236,844</b>	<b>\$236,844</b>	<b>\$483,100</b>	<b>\$682,400</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,165,500</b>
<b>Revenue from the State of California</b>									
OS-24001	Baylands Interpretive Signage Program	162,000	0	162,000	0	0	0	0	162,000
PE-17005	Boulware Park Improvements	188,979	188,979	0	0	0	0	0	0
PE-13011	Charleston/Arastradero Corridor Project	4,834	4,834	0	0	0	0	0	0
PE-12011	Newell Road/San Francisquito Creek Bridge Replacement	10,254,437	454,437	10,800,000	0	0	0	0	10,800,000
<b>Revenue from the State of California Total</b>		<b>\$10,610,250</b>	<b>\$648,250</b>	<b>\$10,962,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$10,962,000</b>
<b>Transfer frm Gen. Gov't Fac. Impact Fee Fund</b>									
PE-24004	Rinconada Pool Family Changing Room	0	0	121,165	0	0	0	0	121,165
<b>Transfer frm Gen. Gov't Fac. Impact Fee Fund Total</b>		<b>\$0</b>	<b>\$0</b>	<b>\$121,165</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$121,165</b>
<b>Transfer frm New Pub. Fac. Impact Fee Fund</b>									
PE-18004	Fire Station 4 Replacement	0	0	95,093	0	0	0	0	95,093
<b>Transfer frm New Pub. Fac. Impact Fee Fund Total</b>		<b>\$0</b>	<b>\$0</b>	<b>\$95,093</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$95,093</b>
<b>Transfer from California Ave Parking Permit Fund</b>									
PF-25000	California Avenue Parking District Parking Improvements	0	0	100,000	0	0	0	0	100,000
<b>Transfer from California Ave Parking Permit Fund Total</b>		<b>\$0</b>	<b>\$0</b>	<b>\$100,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$100,000</b>
<b>Transfer from CDBG Fund</b>									
PO-89003	Sidewalk Repairs	511,673	511,673	0	0	0	0	0	0
<b>Transfer from CDBG Fund Total</b>		<b>\$511,673</b>	<b>\$511,673</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
<b>Transfer from Community Center Impact Fee Fund</b>									
PE-24001	Electrification of City Facilities	0	0	490,000	0	0	0	0	490,000
PF-02022	Facility Interior Finishes Replacement	0	0	440,250	0	0	0	0	440,250
<b>Transfer from Community Center Impact Fee Fund Total</b>		<b>\$0</b>	<b>\$0</b>	<b>\$930,250</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$930,250</b>
<b>Transfer from Electric Fund</b>									
PF-01003	Building Systems Improvements	0	0	500,000	0	0	0	0	500,000
PF-23000	Electric Charger Infrastructure Installation	280,000	280,000	0	0	0	0	0	0
PE-26001	Electric Operations Office Remodel	0	0	0	250,000	2,600,000	0	0	2,850,000
<b>Transfer from Electric Fund Total</b>		<b>\$280,000</b>	<b>\$280,000</b>	<b>\$500,000</b>	<b>\$250,000</b>	<b>\$2,600,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$3,350,000</b>
<b>Transfer from Gas Tax Fund</b>									

# CAPITAL IMPROVEMENT FUND

## Capital Improvement Fund *(Continued)*

Project Number	Project Title	FY 2024 Budget	FY 2024 Estimate	FY 2025 Proposed	FY 2026	FY 2027	FY 2028	FY 2029	5-Year Total
PL-00026	Safe Routes To School	100,000	100,000	100,000	100,000	100,000	100,000	100,000	500,000
PE-86070	Street Maintenance	3,061,919	3,061,919	3,205,057	3,205,057	3,205,057	3,205,057	3,205,057	16,025,285
<b>Transfer from Gas Tax Fund Total</b>		<b>\$3,161,919</b>	<b>\$3,161,919</b>	<b>\$3,305,057</b>	<b>\$3,305,057</b>	<b>\$3,305,057</b>	<b>\$3,305,057</b>	<b>\$3,305,057</b>	<b>\$16,525,285</b>
<b>Transfer from General Fund</b>									
PL-24001	Churchill Avenue Rail Grade Separation and Safety Improvements	322,500	322,500	750,000	1,000,000	1,000,000	1,000,000	1,000,000	4,750,000
PE-24005	Homekey Facilities	2,500,000	2,500,000	0	0	0	0	0	0
PL-24000	Meadow Drive and Charleston Road Rail Grade Separation and Safety Improvements	427,500	427,500	750,000	2,000,000	2,000,000	2,000,000	2,000,000	8,750,000
<b>Transfer from General Fund Total</b>		<b>\$3,250,000</b>	<b>\$3,250,000</b>	<b>\$1,500,000</b>	<b>\$3,000,000</b>	<b>\$3,000,000</b>	<b>\$3,000,000</b>	<b>\$3,000,000</b>	<b>\$13,500,000</b>
<b>Transfer from Library Development Impact Fee Fund</b>									
LB-21000	Library Automated Material Handling	540,000	157,017	382,983	0	0	0	0	382,983
PF-23001	Roth Building Rehabilitation Phase 1	300,000	300,000	0	0	0	0	0	0
<b>Transfer from Library Development Impact Fee Fund Total</b>		<b>\$840,000</b>	<b>\$457,017</b>	<b>\$382,983</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$382,983</b>
<b>Transfer from Parks Dedication Fund</b>									
PE-18006	Byxbee Park Completion	0	0	450,000	1,100,000	0	0	0	1,550,000
PE-24004	Rinconada Pool Family Changing Room	250,000	250,000	250,000	0	0	0	0	250,000
<b>Transfer from Parks Dedication Fund Total</b>		<b>\$250,000</b>	<b>\$250,000</b>	<b>\$700,000</b>	<b>\$1,100,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,800,000</b>
<b>Transfer from Parks Development Impact Fee Fund</b>									
PG-18001	Dog Park Installation and Renovation	294,500	294,500	0	150,000	0	150,000	0	300,000
PG-19000	Park Restroom Installation	790,000	158,579	631,421	559,342	0	559,342	0	1,750,105
PE-08001	Rinconada Park Improvements	46,367	46,367	0	0	0	0	0	0
PF-23001	Roth Building Rehabilitation Phase 1	350,000	350,000	0	0	0	0	0	0
<b>Transfer from Parks Development Impact Fee Fund Total</b>		<b>\$1,480,867</b>	<b>\$849,446</b>	<b>\$631,421</b>	<b>\$709,342</b>	<b>\$0</b>	<b>\$709,342</b>	<b>\$0</b>	<b>\$2,050,105</b>
<b>Transfer from Refuse Fund</b>									
PF-16006	Municipal Service Center Lighting, Mechanical, and Electrical Improvements	10,000	0	10,000	0	0	0	0	10,000
<b>Transfer from Refuse Fund Total</b>		<b>\$10,000</b>	<b>\$0</b>	<b>\$10,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$10,000</b>
<b>Transfer from Stanford University Medical Ctr Fund</b>									
PE-18004	Fire Station 4 Replacement	3,325,000	3,325,000	4,075,000	0	0	0	0	4,075,000
PF-23001	Roth Building Rehabilitation Phase 1	2,000,000	2,000,000	0	0	0	0	0	0
<b>Transfer from Stanford University Medical Ctr Fund Total</b>		<b>\$5,325,000</b>	<b>\$5,325,000</b>	<b>\$4,075,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$4,075,000</b>
<b>Transfer from Traffic Impact Fee Fund</b>									

# CAPITAL IMPROVEMENT FUND

## Capital Improvement Fund *(Continued)*

Project Number	Project Title	FY 2024 Budget	FY 2024 Estimate	FY 2025 Proposed	FY 2026	FY 2027	FY 2028	FY 2029	5-Year Total
PL-05030	Traffic Signal and Intelligent Transportation Systems	395,000	395,000	395,000	395,000	395,000	395,000	395,000	1,975,000
<b>Transfer from Traffic Impact Fee Fund Total</b>		<b>\$395,000</b>	<b>\$395,000</b>	<b>\$395,000</b>	<b>\$395,000</b>	<b>\$395,000</b>	<b>\$395,000</b>	<b>\$395,000</b>	<b>\$1,975,000</b>
<b>Transfer from University Ave Parking In Lieu Fund</b>									
PE-15007	New Downtown Parking Garage	5,448,600	50,000	5,398,600	0	0	0	0	5,398,600
<b>Transfer from University Ave Parking In Lieu Fund Total</b>		<b>\$5,448,600</b>	<b>\$50,000</b>	<b>\$5,398,600</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$5,398,600</b>
<b>Transfer from University Ave Parking Permit Fund</b>									
PF-14003	University Avenue Parking Improvements	0	0	0	87,000	247,000	220,000	200,000	754,000
<b>Transfer from University Ave Parking Permit Fund Total</b>		<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$87,000</b>	<b>\$247,000</b>	<b>\$220,000</b>	<b>\$200,000</b>	<b>\$754,000</b>
<b>Transfer from Utilities Administration Fund</b>									
PF-16006	Municipal Service Center Lighting, Mechanical, and Electrical Improvements	315,000	0	315,000	0	0	0	0	315,000
<b>Transfer from Utilities Administration Fund Total</b>		<b>\$315,000</b>	<b>\$0</b>	<b>\$315,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$315,000</b>
<b>Transfer from Utility Users Tax Fund</b>									
PO-89003	Sidewalk Repairs	600,000	600,000	600,000	600,000	600,000	600,000	600,000	3,000,000
PE-86070	Street Maintenance	400,000	400,000	400,000	400,000	400,000	400,000	400,000	2,000,000
<b>Transfer from Utility Users Tax Fund Total</b>		<b>\$1,000,000</b>	<b>\$1,000,000</b>	<b>\$1,000,000</b>	<b>\$1,000,000</b>	<b>\$1,000,000</b>	<b>\$1,000,000</b>	<b>\$1,000,000</b>	<b>\$5,000,000</b>
<b>Transfer from Vehicle Replacement and Maintenance</b>									
PF-16006	Municipal Service Center Lighting, Mechanical, and Electrical Improvements	175,000	0	175,000	0	0	0	0	175,000
<b>Transfer from Vehicle Replacement and Maintenance Total</b>		<b>\$175,000</b>	<b>\$0</b>	<b>\$175,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$175,000</b>
<b>Total Capital Project Revenues</b>		<b>\$52,125,109</b>	<b>\$35,250,105</b>	<b>\$40,702,699</b>	<b>\$56,955,695</b>	<b>\$56,824,537</b>	<b>\$52,432,479</b>	<b>\$423,789,217</b>	<b>\$630,704,627</b>
<b>Total Sources</b>		<b>\$189,772,840</b>	<b>\$172,897,836</b>	<b>\$126,250,481</b>	<b>\$98,842,166</b>	<b>\$100,515,181</b>	<b>\$99,418,880</b>	<b>\$474,258,143</b>	<b>\$856,339,232</b>
<b>USE OF FUNDS</b>									
<b>Administration</b>									
AS-10000	Capital Improvement Fund Administration	1,190,300	1,190,300	1,315,571	1,415,796	1,516,037	1,616,273	1,716,526	7,580,203
<b>Administration Total</b>		<b>\$1,190,300</b>	<b>\$1,190,300</b>	<b>\$1,315,571</b>	<b>\$1,415,796</b>	<b>\$1,516,037</b>	<b>\$1,616,273</b>	<b>\$1,716,526</b>	<b>\$7,580,203</b>
<b>Buildings and Facilities</b>									
PF-93009	Americans With Disabilities Act Compliance	884,677	84,676	880,820	449,359	506,798	567,992	561,819	2,966,788
PE-19002	Animal Shelter Renovation	2,986,892	274,085	2,986,868	0	0	0	0	2,986,868
PE-24000	Baylands Boardwalk Piling Repair	276,461	276,461	660,615	0	0	0	0	660,615
PF-01003	Building Systems Improvements	1,065,653	580,935	1,266,177	308,933	197,088	0	204,298	1,976,496

# CAPITAL IMPROVEMENT FUND

## Capital Improvement Fund *(Continued)*

Project Number	Project Title	FY 2024 Budget	FY 2024 Estimate	FY 2025 Proposed	FY 2026	FY 2027	FY 2028	FY 2029	5-Year Total
PF-25000	California Avenue Parking District Parking Improvements	0	0	110,102	0	0	0	0	110,102
AC-28002	Children's Theatre Facility Upgrade/Repair	0	0	137,628	0	0	0	0	137,628
AC-28001	Children's Theatre Lighting System	0	0	0	0	0	125,621	647,543	773,164
PE-20002	City Facilities Assessment	156,064	156,064	0	0	0	0	0	0
PE-09003	City Facility Parking Lot Maintenance	388,821	148,333	567,564	219,062	337,865	312,395	766,118	2,203,004
PE-19000	City Hall Space Planning	596,921	25,548	629,096	0	0	0	0	629,096
PE-17010	Civic Center Electrical Upgrade & EV Charger Installation	1,188,000	152,601	1,470,307	0	0	0	0	1,470,307
PE-18016	Civic Center Fire Life Safety Upgrades	623,534	476,295	162,113	0	0	0	0	162,113
PE-15020	Civic Center Waterproofing Study and Repairs	496,358	69,389	470,103	520,695	0	0	0	990,798
PF-23000	Electric Charger Infrastructure Installation	307,519	65,720	266,226	0	0	0	0	266,226
PE-26001	Electric Operations Office Remodel	0	0	0	280,849	2,928,165	0	0	3,209,014
PE-24001	Electrification of City Facilities	552,922	552,922	867,057	112,339	112,621	113,598	102,149	1,307,764
PF-02022	Facility Interior Finishes Replacement	935,167	290,826	595,654	28,085	28,155	397,594	0	1,049,488
PE-15003	Fire Station 3 Replacement	1,000	1,000	0	0	0	0	0	0
PE-18004	Fire Station 4 Replacement	10,197,700	2,090,694	15,482,006	0	0	0	0	15,482,006
FD-24000	Fire Training Facility Replacement	55,293	55,292	0	0	0	0	0	0
PE-24005	Homekey Facilities	4,500,000	98,014	4,846,696	0	0	0	0	4,846,696
AC-18001	JMZ Renovation	1,348,182	816,559	585,330	0	0	0	0	585,330
LB-21000	Library Automated Material Handling	847,997	465,014	421,673	0	844,663	0	0	1,266,336
PE-24002	Lucie Stern Community Theater Mechanical Equipment Replacement	221,169	21,335	2,422,073	0	0	0	0	2,422,073
AC-24001	Lucie Stern Community Theatre Fire Curtain	221,169	21,169	220,205	0	0	0	0	220,205
AC-24000	Lucie Stern Community Theatre Stage Rigging System Refurbishment	116,113	116,113	0	0	0	0	0	0
PE-24003	Lucie Stern Community Theatre Theatrical and House Lighting System Replacement	55,292	28,942	304,268	0	0	0	0	304,268
AC-26000	Mitchell Park Community Center Audio Visual Equipment	0	0	0	381,954	0	0	0	381,954
PE-24006	Mitchell Park Library Repair	250,000	86,270	180,270	0	0	0	0	180,270
PF-17000	Municipal Service Center A, B, & C Roof Replacement	222,832	0	0	0	0	0	0	0
PF-16006	Municipal Service Center Lighting, Mechanical, and Electrical Improvements	7,099,908	734,404	7,008,580	0	0	0	0	7,008,580
PE-18000	New California Avenue Area Parking Garage	803,433	68,415	735,018	0	0	0	0	735,018
PE-15007	New Downtown Parking Garage	5,748,605	52,758	5,695,847	0	0	0	0	5,695,847
PE-15001	New Public Safety Building	24,155,869	24,155,869	0	0	0	0	0	0

# CAPITAL IMPROVEMENT FUND

## Capital Improvement Fund *(Continued)*

Project Number	Project Title	FY 2024 Budget	FY 2024 Estimate	FY 2025 Proposed	FY 2026	FY 2027	FY 2028	FY 2029	5-Year Total
AC-28003	Palo Alto Art Center Ceramics Equipment	0	0	85,879	95,488	0	0	0	181,367
AC-18000	Performing Arts Venues Seat Replacement	809,227	469,251	374,322	0	0	0	0	374,322
PE-24004	Rinconada Pool Family Changing Room	276,461	76,391	1,321,307	0	0	0	0	1,321,307
PF-00006	Roofing Replacement	2,027,465	469,469	1,316,825	278,603	1,018,099	326,027	598,593	3,538,147
PF-23001	Roth Building Rehabilitation Phase 1	12,428,618	12,182,644	380,926	0	0	0	0	380,926
PF-14003	University Avenue Parking Improvements	156,168	752	171,116	97,735	278,175	249,916	204,298	1,001,240
PE-19001	Water, Gas, Wastewater Office Remodel	167,084	167,084	0	0	0	0	0	0
<b>Buildings and Facilities Total</b>		<b>\$82,168,574</b>	<b>\$45,331,294</b>	<b>\$52,622,671</b>	<b>\$2,773,102</b>	<b>\$6,251,629</b>	<b>\$2,093,143</b>	<b>\$3,084,818</b>	<b>\$66,825,363</b>
<b>Department Technology Upgrades and Improvements</b>									
PD-25000	City Radio Replacement Program	0	0	321,499	608,882	610,409	615,703	553,647	2,710,140
FD-25000	Fire Equipment Replacement	0	0	113,405	1,900,618	853,672	270,364	154,245	3,292,304
PD-20000	Police Video Recording Systems Replacement	144,150	12,701	203,503	207,637	208,158	209,964	188,802	1,018,064
<b>Department Technology Upgrades and Improvements Total</b>		<b>\$144,150</b>	<b>\$12,701</b>	<b>\$638,407</b>	<b>\$2,717,137</b>	<b>\$1,672,239</b>	<b>\$1,096,031</b>	<b>\$896,694</b>	<b>\$7,020,508</b>
<b>Parks and Open Space</b>									
AC-86017	Art In Public Spaces	2,169,195	2,169,195	185,800	113,600	133,500	133,800	87,700	654,400
PG-06001	Athletic Courts Resurfacing	525,348	322,703	223,116	253,775	260,720	269,568	248,426	1,255,605
PG-17000	Baylands Comprehensive Conservation Plan	47,661	4,561	47,454	0	0	0	0	47,454
OS-24001	Baylands Interpretive Signage Program	162,000	0	178,366	0	0	0	0	178,366
OS-09002	Baylands Levee Repair for Public Safety Access	0	0	0	323,538	0	0	0	323,538
OS-24000	Baylands Nature Preserve Entrance Gate	132,701	12,701	132,122	0	0	0	0	132,122
PG-06003	Benches, Signage, Walkways, Perimeter Landscaping, and Site Amenities	611,474	611,473	197,523	206,592	212,292	219,471	202,255	1,038,133
PE-16000	Bol Park Improvements	0	0	0	0	0	102,238	868,267	970,505
PE-25000	Bol Park Pathway Repaving and Repair	0	0	0	0	0	340,795	1,327,937	1,668,732
PE-17005	Boulware Park Improvements	4,945,017	4,809,253	149,479	0	0	0	0	149,479
PE-18006	Byxbee Park Completion	0	0	450,000	2,881,000	0	0	0	3,331,000
PG-14002	Cameron Park Improvements	449,160	449,160	0	0	0	0	0	0
PG-18001	Dog Park Installation and Renovation	325,671	325,670	0	168,508	0	170,396	0	338,904
PG-24000	El Camino Park Turf Replacement	931,121	931,121	0	0	0	0	0	0
PG-25002	Eucalyptus Tree Removal	0	0	110,102	0	0	0	0	110,102
OS-18000	Foothills Nature Preserve Boronda Lake Dock Replacement	232,227	232,227	46,243	0	0	0	0	46,243

# CAPITAL IMPROVEMENT FUND

## Capital Improvement Fund *(Continued)*

Project Number	Project Title	FY 2024 Budget	FY 2024 Estimate	FY 2025 Proposed	FY 2026	FY 2027	FY 2028	FY 2029	5-Year Total
PE-20000	Foothills Nature Preserve Dam Seepage Investigation and Repairs	80,357	5,291	82,648	0	0	0	0	82,648
PE-21000	Foothills Nature Preserve Improvements	933,519	240,773	762,728	0	450,486	2,158,369	0	3,371,583
PE-26000	Foothills Nature Preserve Restroom Replacement	0	0	0	561,699	1,914,569	1,703,976	817,192	4,997,436
PG-18000	Golf Course Net and Artificial Turf Replacement	847,267	77,267	847,789	0	0	0	0	847,789
PG-13003	Golf Reconfiguration & Baylands Athletic Center Improvements	175,465	175,465	82,577	89,871	95,729	102,238	0	370,415
PG-21000	Heritage Park Site Amenities Replacement	0	0	143,134	0	0	0	0	143,134
PE-18012	Hoover Park Improvements	0	0	0	0	1,576,703	0	0	1,576,703
PE-21002	Johnson Park Renovation	0	0	0	224,679	1,576,704	0	0	1,801,383
PE-21003	Magical Bridge Playground Rubber and Synthetic Turf Resurfacing	85,935	0	0	0	0	0	0	0
PE-18010	Mitchell Park Improvements	0	0	0	2,632,965	0	0	0	2,632,965
OS-09001	Off-Road Pathway Resurfacing And Repair	300,810	56,076	269,457	121,326	126,137	131,773	122,578	771,271
OS-00002	Open Space Lakes And Pond Maintenance	106,355	106,354	50,868	53,136	54,621	56,458	50,155	265,238
OS-00001	Open Space Trails and Amenities	372,692	372,691	225,050	234,677	240,447	247,871	228,507	1,176,552
PG-09002	Park and Open Space Emergency Repairs	367,187	367,186	281,422	293,655	301,038	310,577	286,221	1,472,913
PG-19000	Park Restroom Installation	1,193,451	562,029	695,210	651,570	0	658,870	0	2,005,650
PE-21001	Pearson Arastradero Improvement Project	0	0	0	0	0	113,599	510,745	624,344
PG-14001	Peers Park Improvements	293,050	28,049	0	0	343,214	140,697	0	483,911
PG-14000	Ramos Park Improvements	386,941	386,941	38,535	0	0	0	0	38,535
PE-08001	Rinconada Park Improvements	516,024	516,024	110,102	0	450,486	4,089,543	0	4,650,131
PG-25003	Rinconada Pool Starting Blocks	0	0	0	0	142,466	0	0	142,466
PE-18015	Robles Park Improvements	676,065	483,817	211,669	0	0	0	0	211,669
PG-14003	Seale Park Improvements	0	0	0	0	0	148,143	888,084	1,036,227
PG-26000	Stanford Palo Alto Community Playing Fields Turf Replacement	0	0	2,707,547	0	0	0	0	2,707,547
PG-22000	Werry Park Playground Improvements	0	0	0	393,187	0	0	0	393,187
<b>Parks and Open Space Total</b>		<b>\$16,866,693</b>	<b>\$13,246,027</b>	<b>\$8,228,941</b>	<b>\$9,203,778</b>	<b>\$7,879,112</b>	<b>\$11,098,382</b>	<b>\$5,638,067</b>	<b>\$42,048,280</b>
<b>Streets and Sidewalks</b>									
PE-17004	California Avenue District Gateway Signs	123,382	0	135,846	0	0	0	0	135,846
PE-20001	City Bridge Improvements	1,911,543	770,930	1,624,685	337,018	253,400	198,796	188,975	2,602,874
PO-12001	Curb and Gutter Repairs	241,020	241,019	114,506	121,326	126,137	141,998	204,298	708,265
PE-12011	Newell Road/San Francisquito Creek Bridge Replacement	18,136,662	4,120,427	16,533,252	0	0	0	0	16,533,252
PE-22000	San Francisquito Creek Joint Powers Authority Ongoing Creek Projects	119,374	119,373	220,205	129,190	129,514	130,637	255,372	864,918

# CAPITAL IMPROVEMENT FUND

## Capital Improvement Fund *(Continued)*

Project Number	Project Title	FY 2024 Budget	FY 2024 Estimate	FY 2025 Proposed	FY 2026	FY 2027	FY 2028	FY 2029	5-Year Total
PO-89003	Sidewalk Repairs	2,727,923	2,588,532	1,584,805	1,462,664	1,583,461	1,703,976	1,838,683	8,173,589
PO-11000	Sign Reflectivity Upgrade	81,330	25,292	55,052	56,169	56,311	56,799	51,074	275,405
PE-13014	Street Lights Condition Assessment	243,286	23,286	242,225	0	0	0	0	242,225
PO-05054	Street Lights Improvements	547,646	180,695	404,022	303,317	316,467	170,397	153,223	1,347,426
PE-86070	Street Maintenance	9,620,344	9,474,178	5,508,441	5,668,507	5,904,597	6,230,711	5,747,871	29,060,127
PO-11001	Thermoplastic Lane Marking and Striping	235,939	104,314	137,628	140,423	140,776	141,997	127,686	688,510
<b>Streets and Sidewalks Total</b>		<b>\$33,988,449</b>	<b>\$17,648,046</b>	<b>\$26,560,667</b>	<b>\$8,218,614</b>	<b>\$8,510,663</b>	<b>\$8,775,311</b>	<b>\$8,567,182</b>	<b>\$60,632,437</b>
<b>Traffic and Transportation</b>									
PL-04010	Bicycle and Pedestrian Transportation Plan Implementation	5,845,709	768,709	2,900,000	877,000	0	0	0	3,777,000
PL-23000	California Avenue Streetscape Update	96,702	96,702	0	0	0	0	0	0
PL-25002	Charleston Road/Alma Street Railroad Crossing Safety Improvements	0	0	531,905	766,607	0	0	0	1,298,512
PE-13011	Charleston/Arastradero Corridor Project	1,584,247	1,584,247	0	0	0	0	0	0
PL-14000	Churchill Avenue Enhanced Bikeway	3,104,247	3,104,247	1,431,332	0	0	0	0	1,431,332
PL-24001	Churchill Avenue Rail Grade Separation and Safety Improvements	4,164,615	4,164,615	3,853,588	16,850,981	16,893,260	17,039,765	139,739,929	194,377,523
PL-20000	Churchill Avenue/Alma Street Railroad Crossing Safety Improvements	5,122,391	5,122,391	651,312	1,562,871	1,566,794	0	0	3,780,977
PL-15002	Downtown Automated Parking Guidance Systems, Access Controls & Revenue Collection Equip.	4,759,916	4,696,388	63,528	0	0	0	0	63,528
PL-19000	Emergency Vehicle Traffic Signal Preemption System Pilot	137,500	137,500	0	0	0	0	0	0
PL-24000	Meadow Drive and Charleston Road Rail Grade Separation and Safety Improvements	6,119,750	6,119,750	6,606,151	33,701,963	33,786,520	34,079,532	287,345,338	395,519,504
PL-15003	Parking District Implementation	163,900	0	180,457	33,700	33,786	34,078	34,730	316,751
PL-16002	Parking Management and System Implementation	475,667	475,667	0	0	0	0	0	0
PL-16000	Quarry Road Improvements and Transit Center Access	0	0	400,022	0	0	0	0	400,022
PL-17001	Railroad Grade Separation and Safety Improvements	1,138,319	1,138,319	1,101,025	2,246,797	2,252,434	1,135,984	0	6,736,240
PL-00026	Safe Routes To School	1,057,458	1,057,457	110,103	115,707	121,406	128,364	102,149	577,729
PL-25001	Traffic Intersection Accessibility Improvement Project	0	0	550,512	0	0	0	0	550,512
PL-05030	Traffic Signal and Intelligent Transportation Systems	1,802,585	1,802,584	994,336	755,709	792,520	838,582	709,936	4,091,083
PL-12000	Transportation and Parking Improvements	1,542,776	1,542,776	442,611	465,198	487,764	516,075	510,745	2,422,393
PE-21004	University Avenue Streetscape Update	131,586	131,586	880,820	449,359	0	0	0	1,330,179
<b>Traffic and Transportation Total</b>		<b>\$37,247,368</b>	<b>\$31,942,938</b>	<b>\$20,697,702</b>	<b>\$57,825,892</b>	<b>\$55,934,484</b>	<b>\$53,772,380</b>	<b>\$428,442,827</b>	<b>\$616,673,285</b>
<b>Total Capital Project Expenses</b>		<b>\$171,605,567</b>	<b>\$109,371,366</b>	<b>\$110,063,987</b>	<b>\$82,154,369</b>	<b>\$81,764,176</b>	<b>\$78,451,557</b>	<b>\$448,346,129</b>	<b>\$800,780,218</b>



# CAPITAL IMPROVEMENT FUND

## Capital Improvement Fund *(Continued)*

Project Number	Project Title	FY 2024 Budget	FY 2024 Estimate	FY 2025 Proposed	FY 2026	FY 2027	FY 2028	FY 2029	5-Year Total
<b>Transfers to Other Funds</b>									
	Transfer to Debt Service Fund (California Avenue Garage)	2,370,000	2,370,000	2,365,000	2,368,000	2,364,000	2,363,000	2,365,000	111,825,000
	Transfer to Debt Service Fund (Public Safety Building)	5,009,000	5,009,000	5,009,000	5,009,000	5,008,000	5,011,000	5,012,000	25,049,000
	Transfer to Technology Fund	0	0	50,000	50,000	25,000	25,000	25,000	175,000
<b>Total Transfers to Other Funds</b>		<b>\$7,379,000</b>	<b>\$7,379,000</b>	<b>\$7,424,000</b>	<b>\$7,427,000</b>	<b>\$7,397,000</b>	<b>\$7,399,000</b>	<b>\$7,402,000</b>	<b>\$37,049,000</b>
<b>Total Expenses</b>		<b>\$178,984,567</b>	<b>\$116,750,366</b>	<b>\$117,487,987</b>	<b>\$89,581,369</b>	<b>\$89,161,176</b>	<b>\$85,850,557</b>	<b>\$455,748,129</b>	<b>\$837,829,218</b>
<b>Reserves</b>									
	Reserve: Debt Service	3,700,000	3,700,000	3,700,000	5,000,000	7,400,000	7,400,000	7,400,000	7,400,000
	Reserve: Infrastructure Plan	1,029,139	15,308,939	2,658,000	0	0	0	0	0
	Reserve: Roth Building & Sea Scout Building TDRs	0	0	0	0	0	0	0	0
<b>Total Reserves</b>		<b>\$4,729,139</b>	<b>\$19,008,938</b>	<b>\$6,358,000</b>	<b>\$5,000,000</b>	<b>\$7,400,000</b>	<b>\$7,400,000</b>	<b>\$7,400,000</b>	<b>\$7,400,000</b>
<b>Total Ending Fund Balance - Infrastructure Reserve</b>		<b>\$6,059,134</b>	<b>37,138,532</b>	<b>2,404,494</b>	<b>4,260,797</b>	<b>3,954,005</b>	<b>6,168,323</b>	<b>11,110,015</b>	<b>11,110,015</b>
<b>Total Uses</b>		<b>\$189,772,840</b>	<b>\$172,897,836</b>	<b>\$126,250,481</b>	<b>\$98,842,166</b>	<b>\$100,515,181</b>	<b>\$99,418,880</b>	<b>\$474,258,143</b>	<b>\$856,339,232</b>



CITY OF  
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# Administration

## CAPITAL IMPROVEMENT FUND



**Fund:** Capital Improvement Fund  
**Category:** Unallocated Salaries and Benefits  
**Project Location:** N/A  
**Managing Department:** Administrative Services  
**IBRC Reference:** N/A  
**Initial Project Start:** Recurring  
**Initial Project Completion:** Recurring  
**Revised Project Start:** N/A  
**Revised Project Completion:** N/A  
**Project Number:** AS-10000

Capital Management Team

# Capital Improvement Fund Administration

## Description

This project provides funding for estimated administrative costs, including salaries and benefits costs of City staff assigned to manage the oversight of the General Fund Capital Improvement Program (CIP).

## Justification

Administrative costs are associated with the completion of CIP projects. As such, these costs are capitalized and are added to the total costs of projects.

## Supplemental Information

Salaries and benefits have been included in CIP projects where appropriate and possible, in all fiscal years. The amounts included in this project represent salaries and benefits expense not associated with any particular project (for example, administration and oversight of the CIP process).

As part of the annual year-end process, the annually incurred amount will be allocated to all projects in the Capital Improvement Fund, on a proportional basis, and any unused balance will be returned to the Infrastructure Reserve.

## Significant Changes

**2024-2028 CIP:** \$100,000 added annually for outside counsel services to address claims related to the construction of large CIP projects.

**2019-2023 CIP:** Salary and benefit expenses have been allocated to capital projects in all years of the CIP. In prior years, costs were allocated only in the first year of the CIP.

# CAPITAL IMPROVEMENT FUND

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Capital Improvement Fund</b>	N/A	1,190,300	1,190,300	1,315,572	1,415,797	1,516,038	1,616,274	1,716,526	7,580,207	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$1,190,300</b>	<b>\$1,190,300</b>	<b>\$1,315,572</b>	<b>\$1,415,797</b>	<b>\$1,516,038</b>	<b>\$1,616,274</b>	<b>\$1,716,526</b>	<b>\$7,580,207</b>	<b>\$0</b>	<b>N/A</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Construction</b>	N/A	100,000	100,000	100,000	100,000	100,000	100,000	100,000	500,000	0	N/A
<b>Other</b>	N/A	1,090,300	1,090,300	1,215,571	1,315,796	1,416,037	1,516,273	1,616,526	7,080,203	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$1,190,300</b>	<b>\$1,190,300</b>	<b>\$1,315,571</b>	<b>\$1,415,796</b>	<b>\$1,516,037</b>	<b>\$1,616,273</b>	<b>\$1,716,526</b>	<b>\$7,580,203</b>	<b>\$0</b>	<b>N/A</b>

### Operating Impact

There are no operating or maintenance expenses associated with this project.

**Environmental Impact Analysis:**  
N/A



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## Buildings and Facilities

## CAPITAL IMPROVEMENT FUND



**Fund:** Capital Improvement Fund

**Category:** Buildings and Facilities

**Project Location:** Various

**Managing Department:** Public Works

**IBRC Reference:** Keep-up

**Initial Project Start:** Recurring

**Initial Project Completion:** Recurring

**Revised Project Start:** N/A

**Revised Project Completion:** N/A

**Project Number:** PF-93009

Palo Alto Airport Terminal, January 2015

# Americans With Disabilities Act Compliance

## Description

This project provides funding for accessibility upgrades to City facilities and equipment. It includes continued funding for improvements such as path of travel, restroom upgrades, drinking fountains, and counters. This funding will also be utilized for other CIP project design or construction phases where accessibility improvements are identified.

## Justification

In order to comply with the Americans with Disabilities Act (ADA) of 1990 and related regulations, the City prepared a Transition Plan and Self-Evaluation Final Study that identified physical obstacles and described improvements to make facilities, programs, and services accessible. Implementation of this program is ongoing.

## Supplemental Information

The recently updated ADA Transition Plan established a schedule for accessibility upgrades to City facilities.

## Significant Changes

**2025-2029 CIP:** New funding has been removed in FY 2025 as part of a balancing strategy to address competing infrastructure needs across the City. Funding is recommended to be reappropriated from FY 2024 into FY 2025 to address ADA project needs.

**2023-2027 CIP:** Continuing work on ADA Transition Plan. Projects for outer years to be determined.

**2021-2025 CIP:** Funding reduced pending Council approval of updated ADA Transition Plan.

**2020-2024 CIP:** Funding added to begin implementation of updated ADA Transition Plan that identified additional needs for City facilities.



# CAPITAL IMPROVEMENT FUND

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Capital Improvement Fund</b>	N/A	884,677	84,676	880,820	449,359	506,798	567,992	561,819	2,966,788	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$884,677</b>	<b>\$84,676</b>	<b>\$880,820</b>	<b>\$449,359</b>	<b>\$506,798</b>	<b>\$567,992</b>	<b>\$561,819</b>	<b>\$2,966,788</b>	<b>\$0</b>	<b>N/A</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Construction</b>	N/A	884,677	84,676	880,820	449,359	506,798	567,992	561,819	2,966,788	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$884,677</b>	<b>\$84,676</b>	<b>\$880,820</b>	<b>\$449,359</b>	<b>\$506,798</b>	<b>\$567,992</b>	<b>\$561,819</b>	<b>\$2,966,788</b>	<b>\$0</b>	<b>N/A</b>

### Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

#### Relationship to Comprehensive Plan Primary Connection

Element: Community Services & Facilities  
 Section: Efficient and Effective Service Delivery  
 Goal: C-1  
 Policy: C-1.8

#### Potential Board/Commission Review:

Historic Resources Board  
 Planning and Transportation Commission  
 Architectural Review Board

#### Environmental Impact Analysis:

This project is expected to have a possible exemption from CEQA under Section 15301.

## CAPITAL IMPROVEMENT FUND



**Fund:** Capital Improvement Fund  
**Category:** Buildings and Facilities  
**Project Location:** 3281 East Bayshore Road  
**Managing Department:** Public Works  
**IBRC Reference:** New  
**Initial Project Start:** Summer 2018  
**Initial Project Completion:** Winter 2018  
**Revised Project Start:** Fall 2024  
**Revised Project Completion:** Fall 2026  
**Project Number:** PE-19002

City of Palo Alto Animal Shelter

# Animal Shelter Renovation

## Description

This project provides funding for interim facility improvements to the Animal Shelter that accompany operation of the shelter by a contractor. The improvements include expanding and remodeling the medical suite to provide a new 900 square foot modular building for office space, public educational programs, and expanded kennels.

## Justification

The Animal Shelter, built in 1972, is outdated and does not meet modern standards for medical care. Fundraising for construction of a new, modern animal shelter will be needed but interim improvements to the current shelter are required for Pets In Need to successfully operate the facility.

## Significant Changes

**2025-2029 CIP:** A new five-year agreement with Pets in Need was approved in March 2024 and the timeline has been adjusted accordingly.

**2024-2028 CIP:** The project budget was increased by \$1.6 million for additional capital projects that are still being negotiated with Pets In Need.

**2023-2027 CIP:** The current agreement with Pets in Need is in the process of being renegotiated. The new agreement will focus on priority improvements as well as fundraising plans for additional costs.

**2020-2024 CIP:** The agreement with Pets In Need was approved by Council in November 2018 and included an increase of \$2.8 million in this project. This project was originally intended to fund work managed by Pets In Need but the work will now be managed by Public Works.

# CAPITAL IMPROVEMENT FUND

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Capital Improvement Fund</b>	2,920,940	2,986,892	274,085	2,986,868	0	0	0	0	2,986,868	0	6,181,893
<b>Total</b>	<b>\$2,920,940</b>	<b>\$2,986,892</b>	<b>\$274,085</b>	<b>\$2,986,868</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$2,986,868</b>	<b>\$0</b>	<b>\$6,181,893</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Construction</b>	2,920,929	2,986,892	274,085	2,986,868	0	0	0	0	2,986,868	0	6,181,882
<b>Total</b>	<b>\$2,920,929</b>	<b>\$2,986,892</b>	<b>\$274,085</b>	<b>\$2,986,868</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$2,986,868</b>	<b>\$0</b>	<b>\$6,181,882</b>

### Operating Impact

There are no additional operating impacts anticipated from this project. At this time it is assumed that maintenance costs at the facility will be covered by Pets In Need as part of a renegotiated agreement with the City.

#### Relationship to Comprehensive Plan Primary Connection

Element: Community Services & Facilities  
Section: Maintenance of Parks and Community Facilities  
Goal: C-3  
Policy: C-3.2

#### Potential Board/Commission Review:

Planning and Transportation Commission  
Architectural Review Board

#### Environmental Impact Analysis:

This project is expected to have a possible exemption from CEQA under Section 15301.

## CAPITAL IMPROVEMENT FUND



**Fund:** Capital Improvement Fund  
**Category:** Buildings and Facilities  
**Project Location:** Baylands Nature Interpretive Center (2775 Embarcadero Road)  
**Managing Department:** Public Works  
**IBRC Reference:** N/A  
**Initial Project Start:** Summer 2023  
**Initial Project Completion:** Spring 2025  
**Revised Project Start:** N/A  
**Revised Project Completion:** N/A  
**Project Number:** PE-24000

Boardwalk piling decay

# Baylands Boardwalk Piling Repair

## Description

This project provides funding for the identification and implementation of a long-term solution to damage caused by aquatic borers to The Lucy Evans Baylands Interpretive Center's boardwalk.

## Justification

The Center's old boardwalk was replaced with a new boardwalk in 2018. The original boardwalk's piles were built of pressure-treated wood. Due to the potential environmental concerns associated with chemical treatment, the pressure-treated wood was not preferred in the wetlands for the new boardwalk piles. An alternative, Alaskan Yellow Cedar, was recommended because of its durability and resistance to decay in marine environments. During a recent site inspection, staff observed decay of some piles because of aquatic borers. A structural consultant conducted a follow-up inspection and recommended temporary repair measures to strengthen the deteriorated piles and to protect the piles that have not been damaged yet. Staff is implementing those temporary measures, but biological assessment and an engineered design are being developed for long-term prevention of the marine borers' activity. Project permitting is underway by the Regional Water Quality Control Board (RWQCB), San Francisco Bay Conservation and Development Commission (BCDC), United States Army Corps of Engineers (USACE), and United States Fish and Wildlife Services (USFWS).

## Supplemental Information

The cost of this project is a planning-level estimate which may be updated once a long-term solution is determined.

# CAPITAL IMPROVEMENT FUND

## Significant Changes

**2025-2029 CIP:** Funding of \$0.6 million has been added for a total project cost of \$0.9 million to provide biological monitoring and to implement repairs based on detailed cost estimate and assuming all pilings could be repaired.

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Capital Improvement Fund	0	276,461	276,461	660,615	0	0	0	0	660,615	0	937,076
<b>Total</b>	<b>\$0</b>	<b>\$276,461</b>	<b>\$276,461</b>	<b>\$660,615</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$660,615</b>	<b>\$0</b>	<b>\$937,076</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Construction	0	221,169	221,169	660,615	0	0	0	0	660,615	0	881,784
Design	0	55,292	55,292	0	0	0	0	0	0	0	55,292
<b>Total</b>	<b>\$0</b>	<b>\$276,461</b>	<b>\$276,461</b>	<b>\$660,615</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$660,615</b>	<b>\$0</b>	<b>\$937,076</b>

## Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

<p><b>Relationship to Comprehensive Plan</b>  <b>Primary Connection</b></p> <p>Element: Community Services &amp; Facilities                  Section: Maintenance of Parks and Community Facilities                  Goal: C-3                  Policy: C-3.2</p> <p><b>Environmental Impact Analysis:</b>                  Possible exemption from CEQA under Section 15302</p>	<p><b>Potential Board/Commission Review:</b></p> <p>Parks and Recreation Commission                  Planning and Transportation Commission</p>
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## CAPITAL IMPROVEMENT FUND



**Fund:** Capital Improvement Fund

**Category:** Buildings and Facilities

**Project Location:** Various

**Managing Department:** Public Works

**IBRC Reference:** Keep-up

**Initial Project Start:** Recurring

**Initial Project Completion:** Recurring

**Revised Project Start:** N/A

**Revised Project Completion:** N/A

**Project Number:** PF-01003

AC gas package unit Municipal Services Center Building C, January 2015

# Building Systems Improvements

## Description

This project provides funding for electrical, mechanical, plumbing, structural, and security upgrades as required at various City facilities. Upgrades may include main and emergency power sources, light fixtures, fire alarm systems, heating and ventilation equipment, Building Management System (BMS) controls, structural reinforcements or repair, security card access, and camera systems.

## Justification

This project provides funding for system upgrades in facilities with systems that are overloaded or no longer efficient. Heating and air-conditioning units in many older buildings are at the end of their useful life and require replacement. BMS control systems in some facilities are outdated and have limited or no vendor support. Structural systems have become damaged or fatigued due to heavier equipment requirements or increased loading. Increased security for facilities and IT network systems require the installation of card access and camera systems. This project also provides funding for replacement of unforeseen equipment failures. While upgrading equipment, staff selects the most energy efficient options, including premium efficiency motors, and incorporates the use of energy saving technologies, such as variable frequency drives, whenever possible.

## Supplemental Information

The Department of Public Works uses a computerized asset management tracking software to assist in identifying the maintenance and replacement needs addressed through this project. Upcoming work includes:

**Fiscal Year 2025:** Replace fill media in the City Hall cooling tower, City Hall fire pump control system and fire panels throughout the City to non-proprietary systems.

# CAPITAL IMPROVEMENT FUND

**Fiscal Year 2026:** Install new stationary generator at Fire Station #8. Replace domestic water control system at City Hall.

**Fiscal Year 2027:** Replace electrical panels at the Golf Club House and Cafe.

**Fiscal Year 2028:** Project to be identified.

**Fiscal Year 2029:** Replace electric boards at Fire Station #5.

## Significant Changes

**2025-2029 CIP:** Due to staffing constraints, several items in this CIP had to be delayed. The replacements of fill media in the City Hall cooling tower, fire pump controls, and proprietary fire panels throughout the city are included in the FY 2025 workplan. The new stationary generator for Fire Station #8 has now been scheduled for installation in FY 2026. That same fiscal year, the domestic water control system in City Hall will be replaced. Upgrades to LED lighting in City parks as well as replacement of roof top furnaces, exhaust fans, and dehumidifiers has been rescheduled from FY 2026 to FY 2027. Replacement of electric panels at the Golf Club House and Cafe is still scheduled for FY 2027, while Fire Station #5 electrical panel boards replacement has been moved from FY 2028 to FY 2029.

**2024-2028 CIP:** Replacement of the City Hall fire pump control system has been delayed from FY 2023 to FY 2024. Replacement of Fire Station #5's electrical panel board has moved to FY 2028 from FY 2025. Installation of a new stationary generator at Fire Station #8 has moved to FY 2025 from FY 2024.

**2023-2027 CIP:** All projects are delayed by one year, and the re-plastering of Rinconada Lap Pool and Kiddie Pool was added to FY 2023.

**2022-2026 CIP:** Staff vacancies have delayed all programmed projects by one year including lighting for Tennis/Pickle Ball Courts which was extended to FY 2022 and UCC generator added to FY 2022 resulting in an increase of funding needed. Cost estimates for planned work have been adjusted for accuracy based on other similar recent bids received.

**2021-2025 CIP:** Funding was reduced as part of the FY 2021 Capital Improvement Program budget strategy and all programmed projects have been delayed a year.

**2020-2024 CIP:** All programmed projects were pushed out a year since FY 2019 funding was needed for a new chiller located at City Hall.

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Capital Improvement Fund	N/A	1,065,654	580,936	766,177	308,933	197,088	0	204,298	1,476,496	0	N/A
Transfer from Electric Fund	N/A	0	0	500,000	0	0	0	0	500,000	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$1,065,654</b>	<b>\$580,936</b>	<b>\$1,266,177</b>	<b>\$308,933</b>	<b>\$197,088</b>	<b>\$0</b>	<b>\$204,298</b>	<b>\$1,976,496</b>	<b>\$0</b>	<b>N/A</b>

# CAPITAL IMPROVEMENT FUND

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Construction</b>	N/A	1,047,756	563,038	1,266,177	308,933	197,088	0	204,298	1,976,496	0	N/A
<b>Design</b>	N/A	17,897	17,897	0	0	0	0	0	0	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$1,065,653</b>	<b>\$580,935</b>	<b>\$1,266,177</b>	<b>\$308,933</b>	<b>\$197,088</b>	<b>\$0</b>	<b>\$204,298</b>	<b>\$1,976,496</b>	<b>\$0</b>	<b>N/A</b>

### Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

<p><b>Relationship to Comprehensive Plan</b>  <b>Primary Connection</b>          Element: Community Services &amp; Facilities          Section: Maintenance of Parks and Community Facilities          Goal: C-3          Policy: C-3.2</p>	<p><b>Potential Board/Commission Review:</b>          Planning and Transportation Commission</p>
<p><b>Environmental Impact Analysis:</b>          This project is expected to have a possible exemption from CEQA under Section 15301.</p>	





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## CAPITAL IMPROVEMENT FUND



**Fund:** Capital Improvement Fund  
**Category:** Buildings and Facilities  
**Project Location:** Various Locations within the California Avenue Parking District area  
**Managing Department:** Public Works  
**IBRC Reference:** N/A  
**Initial Project Start:** Recurring  
**Initial Project Completion:** Recurring  
**Revised Project Start:** N/A  
**Revised Project Completion:** N/A  
**Project Number:** PF-25000

Lot 9 California Avenue area

# California Avenue Parking District Parking Improvements

## Description

This project provides funding for parking improvements in the California Avenue parking district such as parking lot resurfacing, striping and signing; parking structure painting or staining; electrical system upgrades needed to support improved lighting security, parking, fountains and/or other systems; and replacement or rehabilitation of parking lot signs.

## Justification

This project is intended to maintain the existing parking lots and garages in the California Avenue parking district to extend the useful life of the pavement surfaces and buildings.

## Supplemental Information

This project is dependent on the availability of funding in the California Avenue Parking Permit Fund. A city-wide parking lot pavement assessment is anticipated to be conducted in 2026; parking lots in the California Avenue Parking District will be included in this assessment.

## Significant Changes

**2025-2029 CIP:** Funding requested to replace garbage cans in various parking lots and install lighting along California Avenue.

# CAPITAL IMPROVEMENT FUND

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Capital Improvement Fund	N/A	0	0	10,102	0	0	0	0	10,102	0	N/A
Transfer from California Ave Parking Permit Fund	N/A	0	0	100,000	0	0	0	0	100,000	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$0</b>	<b>\$0</b>	<b>\$110,102</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$110,102</b>	<b>\$0</b>	<b>N/A</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Construction	N/A	0	0	110,102	0	0	0	0	110,102	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$0</b>	<b>\$0</b>	<b>\$110,102</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$110,102</b>	<b>\$0</b>	<b>N/A</b>

### Operating Impact

This project is not anticipated to impact operating expenses.

#### Relationship to Comprehensive Plan Primary Connection

Element: Transportation  
Section: Parking  
Goal: T-5  
Policy: T-5.2  
Program: T5.2.1

#### Potential Board/Commission Review:

Planning and Transportation  
Commission

#### Environmental Impact Analysis:

This project is expected to have a possible exemption from CEQA under Section 15301.

# CAPITAL IMPROVEMENT FUND



**Fund:** Capital Improvement Fund  
**Category:** Buildings and Facilities  
**Project Location:** 1305 Middlefield Road  
**Managing Department:** Community Services  
**IBRC Reference:** N/A  
**Initial Project Start:** Summer 2028  
**Initial Project Completion:** Fall 2029  
**Revised Project Start:** N/A  
**Revised Project Completion:** N/A  
**Project Number:** AC-28001

Lighting in Children’s Theatre

## Children’s Theatre Lighting System

### Description

This project will upgrade and replace lighting systems for the Children’s Theatre Main Stage Auditorium and Magic Castle Stage for backstage work areas, the performance stage, and audience areas.

### Justification

Features and upgraded effects that the Children’s Theatre requires for their performances have outgrown the existing lighting system, leaving a deficit in the illumination required for backstage work areas, the performance stage, and audience areas. There are lighting locations powered and controlled throughout the auditorium which are considered past their useful life span. Conversion to light-emitting diodes (LED) will enhance performances, reduce required electrical demands, and assist in maintaining a comfortable temperature by reducing heat loads.

### Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Capital Improvement Fund	0	0	0	0	0	0	125,621	647,543	773,164	0	773,164
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$125,621</b>	<b>\$647,543</b>	<b>\$773,164</b>	<b>\$0</b>	<b>\$773,164</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Design</b>	0	0	0	0	0	0	125,621	647,543	773,164	0	773,164
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$125,621</b>	<b>\$647,543</b>	<b>\$773,164</b>	<b>\$0</b>	<b>\$773,164</b>

### Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

<p><b>Relationship to Comprehensive Plan</b>  <b>Primary Connection</b>                  Element: Community Services &amp; Facilities                  Section: Maintenance of Parks and Community Facilities                  Goal: C-3                  Policy: C-3.2</p>	<p><b>Potential Board/Commission Review:</b>                  Planning and Transportation Commission</p>
<p><b>Environmental Impact Analysis:</b>                  Possible exemption from CEQA under Section 15301</p>	

# CAPITAL IMPROVEMENT FUND



**Fund:** Capital Improvement Fund  
**Category:** Buildings and Facilities  
**Project Location:** 1305 Middlefield Road  
**Managing Department:** Community Services  
**Initial Project Start:** Summer 2024  
**Initial Project Completion:** Winter 2025  
**Revised Project Start:** N/A  
**Revised Project Completion:** N/A  
**Project Number:** AC-28002

Children's Theatre production

## Children's Theatre Facility Upgrade/Repair

### Description

This project will upgrade and repair the Children's Theatre Facility, including backstage work and storage areas, classrooms, performance stages, restrooms and public spaces.

Phase 1: Consultant to establish facility needs and cost of rehabilitation

Phase 2: Architect to complete plans

Phase 3: Project execution

### Justification

Upgrades and repairs are needed for the Children's Theatre, an aging facility. This project will complete unfinished construction on the Magic Castle Stage, address lack of handicapped and gender-neutral restrooms and a lack of adequate education/classroom space, costume construction and theatre storage areas.

### Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Capital Improvement Fund	0	0	0	137,628	0	0	0	0	137,628	0	137,628
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$137,628</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$137,628</b>	<b>\$0</b>	<b>\$137,628</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Design	0	0	0	137,628	0	0	0	0	137,628	0	137,628
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$137,628</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$137,628</b>	<b>\$0</b>	<b>\$137,628</b>

### Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

<p><b>Relationship to Comprehensive Plan</b>  <b>Primary Connection</b>                  Element: Community Services &amp; Facilities                  Section: Maintenance of Parks and Community Facilities                  Goal: C-3                  Policy: C-3.2</p>	<p><b>Potential Board/Commission Review:</b>                  Planning and Transportation Commission</p>
<p><b>Environmental Impact Analysis:</b>                  This project is expected to have a possible exemption from CEQA under Section 15301.</p>	

## CAPITAL IMPROVEMENT FUND



**Fund:** Capital Improvement Fund  
**Category:** Buildings and Facilities  
**Project Location:** Various  
**Managing Department:** Public Works  
**IBRC Reference:** Keep-up  
**Initial Project Start:** Recurring  
**Initial Project Completion:** Recurring  
**Revised Project Start:** N/A  
**Revised Project Completion:** N/A  
**Project Number:** PE-09003

Lucie Stern Parking Lot, February 2015

# City Facility Parking Lot Maintenance

## Description

This project provides funding for the repair, resurfacing, or reconstruction of parking lots and walkways at various City facilities, including restriping and signage.

## Justification

Uneven paved surfaces are a safety hazard and shorten the useful life of walkways and parking lots. Repairing the paved walkways and parking lots at various City facilities will eliminate these safety hazards and extend useful life.

## Supplemental Information

Work programmed for this project includes parking lot resurfacing for the following locations:

**Fiscal Year 2025:** Animal Service Center Parking Lot, Byxbee Park Parking Lot, Municipal Golf Course Service Parking Lot, Terman Center Parking Lot

**Fiscal Year 2026:** Art Center Middle Parking Lot, Eleanor Pardee Garden Center Access, Municipal Service Center (MSC) North Parking Lot

**Fiscal Year 2027:** Adobe Loop Trail Parking Lot

**Fiscal Year 2028:** Gamble Garden Parking Lot

**Fiscal Year 2029:** Baylands Athletic Center

A citywide parking lot pavement assessment is anticipated to be conducted in 2026.

## Significant Changes

**2025-2029 CIP:** Added Baylands Athletic Center to work plan for FY 2029.



# CAPITAL IMPROVEMENT FUND

**2024-2028 CIP:** Added Gamble Garden Parking Lot to work plan for FY 2028.

**2023-2027 CIP:** Parking lots were inspected in October 2021 and cost estimates were updated based on current pavement conditions.

**2021-2025 CIP:** Funding was reduced as part of the FY 2021 Capital Improvement Program budget strategy. Foothills Park parking lot work was moved to FY 2022 to coordinate with Foothills Park Roadway Paving Project.

**2020-2022 CIP:** Parking lots were inspected in October 2018 and cost estimates were updated based on current pavement conditions.

**2018-2022 CIP:** A \$215,000 increase in FY 2018 funding is for the Midtown Shopping Center.

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Capital Improvement Fund	N/A	388,821	148,333	567,564	219,062	337,865	312,395	766,118	2,203,004	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$388,821</b>	<b>\$148,333</b>	<b>\$567,564</b>	<b>\$219,062</b>	<b>\$337,865</b>	<b>\$312,395</b>	<b>\$766,118</b>	<b>\$2,203,004</b>	<b>\$0</b>	<b>N/A</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Construction	N/A	388,821	148,333	567,564	219,062	337,865	312,395	766,118	2,203,004	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$388,821</b>	<b>\$148,333</b>	<b>\$567,564</b>	<b>\$219,062</b>	<b>\$337,865</b>	<b>\$312,395</b>	<b>\$766,118</b>	<b>\$2,203,004</b>	<b>\$0</b>	<b>N/A</b>

## Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

### Relationship to Comprehensive Plan Primary Connection

Element: Community Services & Facilities  
Section: Maintenance of Parks and Community Facilities  
Goal: C-3  
Policy: C-3.2

### Potential Board/Commission Review:

Planning and Transportation Commission

### Environmental Impact Analysis:

Work performed under this project is typically categorically exempt from CEQA under Section 15301.

## CAPITAL IMPROVEMENT FUND



City Hall A Level Lobby

**Fund:** Capital Improvement Fund  
**Category:** Buildings and Facilities  
**Project Location:** Palo Alto City Hall (250 Hamilton Avenue)  
**Managing Department:** Public Works  
**IBRC Reference:** New  
**Initial Project Start:** Fall 2018  
**Initial Project Completion:** Fall 2019  
**Revised Project Start:** Spring 2024  
**Revised Project Completion:** Fall 2026  
**Project Number:** PE-19000

# City Hall Space Planning

## Description

This project provides funding for space planning to determine future workgroup space needs and programming for the City Hall office building.

## Justification

Upon completion of the new Public Safety Building in 2023, the Police wing of City Hall and the Fire Administration group on the 6th floor will move into the new building. The departure of these workgroups provides an opportunity to plan for the best use of the newly available City Hall space and to consider other potential improvements such as reconfiguration of the A level cafeteria space. Additionally, a potential opportunity has been identified to reduce the size of the Information Technology Department's 2nd floor data center and make the space available for other uses.

## Supplemental Information

The scope of this project includes the initial space planning and preliminary design of the improvements. Following completion of space planning and preliminary design, additional funding will be required to complete the design and construct renovations to the affected areas.

## Significant Changes

**2025-2029 CIP:** Project start extended to Spring 2024 due to staff prioritizing other projects.

**2024-2028 CIP:** Project start extended to Spring 2023 due to staff prioritizing other projects.

**2023-2027 CIP:** Project start extended to Spring 2022 due to staff prioritizing other projects.

**2022-2026 CIP:** Project start extended to Spring 2021 to follow the beginning of the construction phase in the Public Safety Building Project (PE-15001).

# CAPITAL IMPROVEMENT FUND

**2021-2025 CIP:** Project extended to FY 2021 as a result of staffing constraints and funding increased to reflect increased scope needed to study and plan for the space availability and needs at City Hall resulting from the completion of the Public Safety Building in FY 2023.

**2020-2024 CIP:** Project completion extended to reflect staffing constraints and the revised expected completion of the Public Safety Building.

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Capital Improvement Fund	45,701	596,921	25,548	629,096	0	0	0	0	629,096	0	700,345
<b>Total</b>	<b>\$45,701</b>	<b>\$596,921</b>	<b>\$25,548</b>	<b>\$629,096</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$629,096</b>	<b>\$0</b>	<b>\$700,345</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Design	45,699	596,921	25,548	629,096	0	0	0	0	629,096	0	700,343
<b>Total</b>	<b>\$45,699</b>	<b>\$596,921</b>	<b>\$25,548</b>	<b>\$629,096</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$629,096</b>	<b>\$0</b>	<b>\$700,343</b>

## Operating Impact

Operating impacts of potential space uses will be assessed as part of the planning process.

<p><b>Relationship to Comprehensive Plan</b>  <b>Primary Connection</b></p> <p>Element: Community Services &amp; Facilities          Section: Maintenance of Parks and Community Facilities          Goal: C-3          Policy: C-3.2</p> <p><b>Environmental Impact Analysis:</b>          This project is expected to have a possible exemption from CEQA under Section 15301.</p>	<p><b>Potential Board/Commission Review:</b></p> <p>Planning and Transportation Commission</p>
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## CAPITAL IMPROVEMENT FUND



**Fund:** Capital Improvement Fund  
**Category:** Buildings and Facilities  
**Project Location:** Palo Alto City Hall (250 Hamilton Avenue), Various  
**Managing Department:** Public Works  
**IBRC Reference:** Keep-up  
**Initial Project Start:** Summer 2016  
**Initial Project Completion:** Fall 2017  
**Revised Project Start:** Spring 2017  
**Revised Project Completion:** Fall 2025  
**Project Number:** PE-17010

Electrical System Access Door at City Hall

# Civic Center Electrical Upgrade & EV Charger Installation

## Description

This project provides funding to replace the aging Civic Center electrical switchgear and motor control centers and to purchase and install approximately 43 new Level 2 electric vehicle (EV) charging stations at City parking garages, including the Civic Center garage.

## Justification

The main electrical switch gear is over 50 years old and must be replaced and upgraded to ensure the reliability of electrical power at City Hall. Other parts of the electrical system have been recently upgraded, leaving this as one of the last remaining items. With increased ownership of electric vehicles, additional public spaces with EV chargers are needed. Funding in this project allows the City to leverage grants that substantially cover the costs of EV charger purchases and installation on a reimbursement basis.

## Supplemental Information

Funding for the electrical upgrade work (\$0.35 million) was moved from the Civic Center Fire Life Safety Upgrades Project (PE-18016) to this project. At the time this project was established, approximately 90 percent of the EV charger costs were expected to be reimbursed by Bay Area Air Quality Management District grants.

## Significant Changes

**2024-2028 CIP:** Project timeline extended to Fall 2025 due to expected one-year lead time to procure and manufacture the switch gear. Electrical equipment availability has been impacted by global pandemic and economic events in recent years. Funding has also been increased by approximately \$0.8 million to a total project cost of \$2.1 million due to inflated costs of the equipment and labor to install.

## CAPITAL IMPROVEMENT FUND

**2023-2027 CIP:** Project budget increased by approximately \$0.3 million due to construction cost escalation and the construction complexity of swapping out the main switch gear without significant downtime for City Hall. Project completion date extended to Spring 2023 due to expected scheduling difficulties related to minimizing downtime of City Hall.

**2022-2026 CIP:** Project completion date extended to Fall 2021 due to delays in procuring design services.

**2020-2024 CIP:** In FY 2018, an invitation for Design-Build proposals received no response. Staff began the process for a traditional Design-Bid Build approach. Timing of the project was extended to accommodate this approach and allow for a new window of opportunity to perform construction when City Hall can be closed for a brief time duration. Funding added to account for the complexity of construction and replacement of both motor control centers (MCC) on Levels A and 8.

**2019-2023 CIP:** Anticipated project completion date adjusted to reflect delays due to staff workload and available options for scheduling a full shutdown of City Hall for construction work.

**2018-2022 CIP:** Project start was delayed due to staff workload. Staff plans to use Design-Build project delivery method for Civic Center switchgear and motor control center replacements.

**2017-2021 CIP:** Project established.

### Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Capital Improvement Fund	467,740	1,014,000	(21,399)	1,470,307	0	0	0	0	1,470,307	0	1,916,648
Revenue from Other Agencies	86,300	174,000	174,000	0	0	0	0	0	0	0	260,300
<b>Total</b>	<b>\$554,040</b>	<b>\$1,188,000</b>	<b>\$152,601</b>	<b>\$1,470,307</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,470,307</b>	<b>\$0</b>	<b>\$2,176,948</b>

### Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Construction	435,331	1,143,403	108,004	1,470,307	0	0	0	0	1,470,307	0	2,013,642
Design	118,696	44,597	44,597	0	0	0	0	0	0	0	163,293
<b>Total</b>	<b>\$554,027</b>	<b>\$1,188,000</b>	<b>\$152,601</b>	<b>\$1,470,307</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,470,307</b>	<b>\$0</b>	<b>\$2,176,935</b>

### Operating Impact

This project is anticipated to impact operating expenses in the future. As these costs are quantified, adjustments will be brought forward in the future budget cycles, as necessary.

# CAPITAL IMPROVEMENT FUND

**Relationship to Comprehensive Plan  
Primary Connection**

Element: Natural Environment  
Section: Air Quality  
Goal: N-5  
Policy: N-5.2

**Potential Board/Commission Review:**

Planning and Transportation  
Commission  
Utilities Advisory Commission

**Environmental Impact Analysis:**

This project is expected to have a possible exemption from CEQA under Section 15301.



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## CAPITAL IMPROVEMENT FUND



**Fund:** Capital Improvement Fund  
**Category:** Buildings and Facilities  
**Project Location:** Palo Alto City Hall (250 Hamilton Avenue)  
**Managing Department:** Public Works  
**IBRC Reference:** Keep-up  
**Initial Project Start:** Summer 2018  
**Initial Project Completion:** Spring 2019  
**Revised Project Start:** Fall 2020  
**Revised Project Completion:** Fall 2024  
**Project Number:** PE-18016

Civic Center Fire Life Safety and Electrical Upgrades

# Civic Center Fire Life Safety Upgrades

## Description

This project provides funding for an assessment and upgrade of the fire life safety systems in City Hall.

## Justification

The fire life safety system is approaching the end of its useful life. The fire alarm panels and associated equipment are in need of upgrade in order to meet current code requirements. City Hall is a vital facility for all functions and departments.

## Significant Changes

**2025-2029 CIP:** Project completion schedule revised to reflect staff workload with respect to the ERRCS system addition from FY 2024.

**2024-2028 CIP:** Project completion is anticipated to be Fall 2023. Additional funding of approximately \$0.3 million added in FY 2024 for a total project cost of \$1.0 million for an emergency responder radio communication system (ERRCS) at City Hall.

**2022-2026 CIP:** Project completion schedule revised due to delays with procurement.

**2021-2025 CIP:** Project completion schedule revised due to re-evaluation of the procurement methodology for the system.

**2019-2023 CIP:** Project schedule and scope revised to reflect staff workload.

**2017-2021 CIP:** The scope and budget (\$0.35 million) for the City Hall electrical upgrade portion of this project have been moved to a new project, PE-17010, Civic Center Electrical Upgrade & EV Charger Installation.



# CAPITAL IMPROVEMENT FUND

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Capital Improvement Fund</b>	121,978	623,534	476,295	162,113	0	0	0	0	162,113	0	760,386
<b>Transfer frm Gen. Gov't Fac. Impact Fee Fund</b>	356,956	0	0	0	0	0	0	0	0	0	356,956
<b>Total</b>	<b>\$478,934</b>	<b>\$623,534</b>	<b>\$476,295</b>	<b>\$162,113</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$162,113</b>	<b>\$0</b>	<b>\$1,117,342</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Construction</b>	447,823	623,534	476,295	162,113	0	0	0	0	162,113	0	1,086,231
<b>Design</b>	31,104	0	0	0	0	0	0	0	0	0	31,104
<b>Total</b>	<b>\$478,927</b>	<b>\$623,534</b>	<b>\$476,295</b>	<b>\$162,113</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$162,113</b>	<b>\$0</b>	<b>\$1,117,335</b>

### Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

#### Relationship to Comprehensive Plan Primary Connection

Element: Community Services & Facilities  
Section: Maintenance of Parks and Community Facilities  
Goal: C-3  
Policy: C-3.2

#### Potential Board/Commission Review:

Planning and Transportation Commission

#### Environmental Impact Analysis:

This project is expected to have a possible exemption from CEQA under Section 15301.

## CAPITAL IMPROVEMENT FUND



Civic Center Parking Garage, February 2015

**Fund:** Capital Improvement Fund  
**Category:** Buildings and Facilities  
**Project Location:** Palo Alto City Hall (250 Hamilton Avenue)  
**Managing Department:** Public Works  
**IBRC Reference:** New  
**Initial Project Start:** Summer 2015  
**Initial Project Completion:** Summer 2017  
**Revised Project Start:** Summer 2016  
**Revised Project Completion:** Fall 2026  
**Project Number:** PE-15020

# Civic Center Waterproofing Study and Repairs

## Description

This project provides funding to address the condition assessment and repair method for the Civic Center Plaza planter boxes' waterproofing membranes, drainage piping system along the Civic Center Plaza perimeter and structural beam and walls repair in parking levels below due to water incursion.

## Justification

Water has been leaking from the planter boxes to the parking level below when it rains and causing damage to structural beam and connection to walls at parking levels below. The planter waterproofing membranes and drainpipes were found to be in poor condition and most likely at the end of their service life. The waterproofing membranes and drainpipes require immediate replacement.

## Significant Changes

**2025-2029 CIP:** Additional funding of approximately \$0.5 million and time added for structural beam and walls repair due to water incursion in the parking garage for a total project cost of \$1.8 million.

**2024-2028 CIP:** Project completion date extended to Fall 2024 due to staff prioritizing other projects and additional funding of approximately \$0.4 million added in FY 2024 for increased cost to repair planter boxes for a total project cost of \$1.2 million.

**2023-2027 CIP:** Project completion date extended to Fall 2023 due to staff prioritizing other projects.

**2020-2024 CIP:** Additional funding and time added to restore waterproofing membrane within planter boxes along the Civic Center plaza perimeter.

**2019-2023 CIP:** Anticipated completion date adjusted to reflect delays due to staff workload.

**2018-2022 CIP:** Additional funding added for implementation of the repairs.

# CAPITAL IMPROVEMENT FUND

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Capital Improvement Fund</b>	769,906	496,359	69,390	470,103	520,695	0	0	0	990,798	0	1,830,094
<b>Total</b>	<b>\$769,906</b>	<b>\$496,359</b>	<b>\$69,390</b>	<b>\$470,103</b>	<b>\$520,695</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$990,798</b>	<b>\$0</b>	<b>\$1,830,094</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Construction</b>	684,362	496,358	69,389	470,103	520,695	0	0	0	990,798	0	1,744,549
<b>Design</b>	85,540	0	0	0	0	0	0	0	0	0	85,540
<b>Total</b>	<b>\$769,902</b>	<b>\$496,358</b>	<b>\$69,389</b>	<b>\$470,103</b>	<b>\$520,695</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$990,798</b>	<b>\$0</b>	<b>\$1,830,089</b>

### Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

#### Relationship to Comprehensive Plan Primary Connection

Element: Community Services & Facilities  
Section: Maintenance of Parks and Community Facilities  
Goal: C-3  
Policy: C-3.2

#### Potential Board/Commission Review:

Planning and Transportation Commission

#### Environmental Impact Analysis:

This project is expected to have a possible exemption from CEQA under Section 15301.



**Fund:** Capital Improvement Fund  
**Category:** Buildings and Facilities  
**Project Location:** Various City Facilities  
**Managing Department:** Public Works  
**IBRC Reference:** N/A  
**Initial Project Start:** Recurring  
**Initial Project Completion:** Recurring  
**Revised Project Start:** N/A  
**Revised Project Completion:** N/A  
**Project Number:** PF-23000

Electric Charger

# Electric Charger Infrastructure Installation

## Description

This project provides design and construction funding for the installation of electric vehicle chargers at various City facilities. The primary use of the electric vehicle chargers will be for City fleet vehicles.

## Justification

The City is progressively moving towards replacing the City's fleet with electric vehicles; however, most City facilities do not have existing electric vehicle chargers dedicated to City vehicles. This project will fund the installation of electric vehicle chargers in advance of receiving new electric fleet vehicles in alignment with the electrification goals of the Sustainability and Climate Action Plan (S/CAP). The City has been accumulating Low Carbon Fuel Standard (LCFS) funding that will help fund the initial stages of this work.

## Supplemental Information

The City contracted with a consultant firm in FY 2022 to perform a study called "City of Palo Alto Electric Vehicle Charging Infrastructure Study," which provided short and long term electric vehicle charging infrastructure needs for the City. Staff will use this report to assist in the development of future phases of the installation of electric vehicle chargers at various City facilities.

## Significant Changes

**2025-2029 CIP:** Staff initiated the first phase of the project by preparing documentation for solicitation of design services for City Hall EV chargers installation. In FY 2025, staff will be adding new electric panels in City Hall for the EV fleet.

**2024-2028 CIP:** First phase of this project extended into FY 2024 due to staffing constraints and prioritization of other projects.

# CAPITAL IMPROVEMENT FUND

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Capital Improvement Fund	N/A	27,519	(214,280)	266,226	0	0	0	0	266,226	0	N/A
Transfer from Electric Fund	N/A	280,000	280,000	0	0	0	0	0	0	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$307,519</b>	<b>\$65,720</b>	<b>\$266,226</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$266,226</b>	<b>\$0</b>	<b>N/A</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Design	N/A	307,519	65,720	266,226	0	0	0	0	266,226	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$307,519</b>	<b>\$65,720</b>	<b>\$266,226</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$266,226</b>	<b>\$0</b>	<b>N/A</b>

### Operating Impact

This project is anticipated to impact operating expenses in the future. As these costs are quantified, adjustments will be brought forward in the future budget cycles, as necessary.

#### Relationship to Comprehensive Plan Primary Connection

Element: Natural Environment  
Section: Air Quality  
Goal: N-5  
Policy: N-5.2

#### Potential Board/Commission Review:

Planning and Transportation  
Commission  
Architectural Review Board

#### Environmental Impact Analysis:

This project is expected to require a CEQA Environmental Impact Report.

# CAPITAL IMPROVEMENT FUND



**Fund:** Capital Improvement Fund  
**Category:** Buildings and Facilities  
**Project Location:** MSC Building C  
**Managing Department:** Public Works  
**IBRC Reference:** N/A  
**Initial Project Start:** Fall 2025  
**Initial Project Completion:** Summer 2027  
**Revised Project Start:** N/A  
**Revised Project Completion:** N/A  
**Project Number:** PE-26001

Entryway to the Water, Gas, Wastewater Offices

## Electric Operations Office Remodel

### Description

This project provides funding for renovations to Electric Operations office space at the Municipal Services Center (MSC). The current space no longer meets the operational needs of the Utilities Department. This project will reconfigure the space so it is more efficient for departmental operations, and will include the replacement of aging furniture and finishes such as cubicle furniture, carpet, paint, and lighting. Enclosed offices may be demolished and relocated. Additionally, electrical, mechanical (HVAC), and fire systems work will be required.

### Justification

The current office space configuration and furnishings have been in place for about 20 years and no longer fits the needs of the City. Reconfiguring the space will allow staff from the same work groups to be located together and next to their supervisors/ managers, and create additional offices and other space for new staff. This will also add a much needed conference room and a reception/waiting area for visitors and a locker room to accommodate our employees.

### Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Capital Improvement Fund	0	0	0	0	30,849	328,165	0	0	359,014	0	359,014
Transfer from Electric Fund	0	0	0	0	250,000	2,600,000	0	0	2,850,000	0	2,850,000
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$280,849</b>	<b>\$2,928,165</b>	<b>\$0</b>	<b>\$0</b>	<b>\$3,209,014</b>	<b>\$0</b>	<b>\$3,209,014</b>

# CAPITAL IMPROVEMENT FUND

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Construction</b>	0	0	0	0	0	2,928,165	0	0	2,928,165	0	2,928,165
<b>Design</b>	0	0	0	0	280,849	0	0	0	280,849	0	280,849
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$280,849</b>	<b>\$2,928,165</b>	<b>\$0</b>	<b>\$0</b>	<b>\$3,209,014</b>	<b>\$0</b>	<b>\$3,209,014</b>

### Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

<p><b>Relationship to Comprehensive Plan</b>  <b>Primary Connection</b></p> <p>Element: Community Services &amp; Facilities                  Section: Maintenance of Parks and Community Facilities                  Goal: C-3                  Policy: C-3.2</p> <p><b>Environmental Impact Analysis:</b>                  This Project is expected to have a possible exemption from CEQA under Section 15301.</p>	<p><b>Potential Board/Commission Review:</b></p> <p>Planning and Transportation Commission</p>
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## CAPITAL IMPROVEMENT FUND



**Fund:** Capital Improvement Fund

**Category:** Buildings and Facilities

**Project Location:** Various

**Managing Department:** Public Works

**IBRC Reference:** N/A

**Initial Project Start:** Recurring

**Revised Project Start:** N/A

**Revised Project Completion:** N/A

**Project Number:** PE-24001

**Bryant Street Garage gas meter**

# Electrification of City Facilities

## Description

This project will evaluate feasibility, prepare designs, and implement construction for the electrification of fossil fuel consuming building systems in coordination with the Building Systems Improvements project (PF-01003). The Electrification of City Facilities project is intended as a workplan to implement the findings from the electrification assessment done in 2023 as part of the City Facility Assessment project (PE-20002).

## Justification

The Sustainability and Climate Action Plan (S/CAP) Key Action E4 is to reduce natural gas use in City facilities to help meet the S/CAP goals. This project is intended to implement Key Action E4 for the energy component of the S/CAP as accepted by City Council on October 3, 2022.

## Supplemental Information

In 2023, the City of Palo Alto conducted a city facility assessment at all City buildings and an electrification assessment (EA) at the forty-nine buildings with fossil fuel consuming systems. The EA provided a framework for electrification to help meet the S/CAP goals to reduce greenhouse gas (GHG) emissions to 80% below 1990 levels by 2030.

As part of the EA, a cost and timing estimate for the electrification of fossil fuel consuming systems was prepared based on the expected remaining useful life (RUL) of the gas-fired equipment at each city facility. Converting gas-fired equipment to electrical usage will increase electrical demand at facilities. Therefore, electrical service equipment may require upgrades to handle the increased load. Ideally, fossil fuel burning equipment will be converted to electric at their end of useful life (EUL), ensuring the City maximizes the life cycle of existing equipment, but some building equipment may require conversion prior to EUL.



# CAPITAL IMPROVEMENT FUND

## Significant Changes

**2025-2029 CIP:** Additional funding added for HVAC electrification to upgrade the 445 Bryant Street property (previously rented by Form Fitness). The cost of the HVAC system will be offset by funding from the Community Center Impact Fee Fund.

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Capital Improvement Fund	0	552,922	552,922	377,057	112,339	112,621	113,598	102,149	817,764	0	1,370,686
Transfer from Community Center Impact Fee Fund	0	0	0	490,000	0	0	0	0	490,000	0	490,000
<b>Total</b>	<b>\$0</b>	<b>\$552,922</b>	<b>\$552,922</b>	<b>\$867,057</b>	<b>\$112,339</b>	<b>\$112,621</b>	<b>\$113,598</b>	<b>\$102,149</b>	<b>\$1,307,764</b>	<b>\$0</b>	<b>\$1,860,686</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Construction	0	552,922	552,922	867,057	112,339	112,621	113,598	102,149	1,307,764	0	1,860,686
<b>Total</b>	<b>\$0</b>	<b>\$552,922</b>	<b>\$552,922</b>	<b>\$867,057</b>	<b>\$112,339</b>	<b>\$112,621</b>	<b>\$113,598</b>	<b>\$102,149</b>	<b>\$1,307,764</b>	<b>\$0</b>	<b>\$1,860,686</b>

## Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

<p><b>Relationship to Comprehensive Plan</b>  <b>Primary Connection</b></p> <p>Element: Community Services &amp; Facilities                  Section: Maintenance of Parks and Community Facilities                  Goal: C-3                  Policy: C-3.2                  Program: C3.2.1</p> <p><b>Environmental Impact Analysis:</b>                  Possible exemption from CEQA under Section 15302</p>	<p><b>Potential Board/Commission Review:</b></p> <p>Planning and Transportation Commission                  Utilities Advisory Commission</p>
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## CAPITAL IMPROVEMENT FUND



**Fund:** Capital Improvement Fund  
**Category:** Buildings and Facilities  
**Project Location:** Various  
**Managing Department:** Public Works  
**IBRC Reference:** Keep-up  
**Initial Project Start:** Recurring  
**Initial Project Completion:** Recurring  
**Revised Project Start:** N/A  
**Revised Project Completion:** N/A  
**Project Number:** PF-02022

Lucie Stern Community Center Ballroom

# Facility Interior Finishes Replacement

## Description

This project provides funding for replacement of or improvements to interior finishes such as flooring, walls, ceiling tiles, doors, windows, paint, lighting, soundproofing, cabinets, and fixed office furniture, as well as associated electrical, mechanical, plumbing, and fire/life safety code compliance requirements at various City facilities.

## Justification

Interior finishes throughout City facilities are designated for replacement as part of an ongoing capital maintenance plan. Finishes are typically coordinated and upgraded as other renovation projects are undertaken.

## Supplemental Information

Planned carpet replacement and other interior finishes projects include:

**Fiscal Year 2025:** Lucie Stern Community Theater window coverings and 445 Bryant (former Form Fitness site) building systems

**Fiscal Year 2026:** Downtown and Children's Libraries furniture

**Fiscal Year 2027:** Rinconada and College Terrace Libraries furniture

**Fiscal Year 2028:** Specific projects and workplan to be determined

**Fiscal Year 2029:** Specific projects and workplan to be determined

## Significant Changes

**2025-2029 CIP:** Mitchell Park Library furniture has been removed from FY 2025 in place of funding allocated for replacement of window coverings at Lucie Stern Community Theater as well as building system improvements

## CAPITAL IMPROVEMENT FUND

at the 445 Bryant street building (formerly Form Fitness). Costs for the work at 445 Bryant Street will be off-set with funding from the Community Center Impact Fee Fund.

**2024-2028 CIP:** As part of a balancing strategy to address competing infrastructure needs across the City, funding has been removed for the Lucie Stern Community Theatre kitchen in FY 2025, the Municipal Services Center (MSC) Building B locker room and shower in FY 2026, and the MSC Building C lunchroom and hallways in FY 2027. These projects will be assessed in future years to determine when the work will be programmed.

**2023-2027 CIP:** Revenue Collections remodel was added to FY 2023; MSC Building C lunchrooms and hallways was moved to FY 2027; Lucie Stern Community Theater kitchen was moved from FY 2026 to FY 2025; MSC Building B shower and locker room were moved to FY 2026; MSC Building C WGW locker room was moved outside of the five-year plan; and furniture replacement at library facilities was included as noted in Supplemental Information.

**2022-2026 CIP:** The project has been delayed due to staffing constraints. Projects programmed in FY 2021 through FY 2023 were pushed out to FY 2023 through FY 2025. The Children’s Library carpet replacement was pushed out from FY 2020 to FY 2024. Funding was added to cover anticipated increases.

**2021-2025 CIP:** Funding was reduced as part of the FY 2021 Capital Improvement Program budget strategy, some work may be deferred to future years accordingly.

**2020-2024 CIP:** MSC Building C Lunchrooms and Hallways was moved to FY 2021 from FY 2022. The Golf Course Club House Restrooms, previously programmed in FY 2021, were completed as part of the Golf Course Reconfiguration project (PG-13003).

**2019-2023 CIP:** Elwell Court has moved from FY 2022 to FY 2019, Children’s Library will be added for FY 2020, and MSC Building C will be moved to FY 2022.

**2018-2022 CIP:** MSC Building C Water-Gas-Wastewater, Lucie Stern Community Theatre will be replacing Municipal Services Center Building A, Parks Department and Stores in FY 2020.

### Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Capital Improvement Fund	N/A	935,167	290,826	155,404	28,085	28,155	397,594	0	609,238	0	N/A
Transfer from Community Center Impact Fee Fund	N/A	0	0	440,250	0	0	0	0	440,250	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$935,167</b>	<b>\$290,826</b>	<b>\$595,654</b>	<b>\$28,085</b>	<b>\$28,155</b>	<b>\$397,594</b>	<b>\$0</b>	<b>\$1,049,488</b>	<b>\$0</b>	<b>N/A</b>

### Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Construction	N/A	935,167	290,826	595,654	28,085	28,155	397,594	0	1,049,488	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$935,167</b>	<b>\$290,826</b>	<b>\$595,654</b>	<b>\$28,085</b>	<b>\$28,155</b>	<b>\$397,594</b>	<b>\$0</b>	<b>\$1,049,488</b>	<b>\$0</b>	<b>N/A</b>

# CAPITAL IMPROVEMENT FUND

## Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

**Relationship to Comprehensive Plan  
Primary Connection**

Element: Community Services &  
Facilities  
Section: Maintenance of Parks and  
Community Facilities  
Goal: C-3  
Policy: C-3.2

**Potential Board/Commission Review:**

Planning and Transportation  
Commission

**Environmental Impact Analysis:**

This project is expected to have a possible exemption from CEQA under Section 15301.



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## CAPITAL IMPROVEMENT FUND



Fire Station #4, April 2015

**Fund:** Capital Improvement Fund  
**Category:** Buildings and Facilities  
**Project Location:** 3600 Middlefield Road  
**Managing Department:** Public Works  
**IBRC Reference:** New  
**Initial Project Start:** Summer 2017  
**Initial Project Completion:** Winter 2020  
**Revised Project Start:** Spring 2022  
**Revised Project Completion:** Summer 2026  
**Project Number:** PE-18004

# Fire Station 4 Replacement

## Description

This project provides funding to replace Fire Station 4 at the corner of Middlefield Road and East Meadow Drive. The replacement facility will be based on the prior replacement study and needs assessment prepared in 2005.

## Justification

The current Fire Station 4 facility is operationally and technologically deficient. This project will provide a new facility built to essential services standards with a high likelihood of being fully operational after a major disaster such as a significant earthquake.

## Supplemental Information

The Fire Station 4 Replacement project is included in the Council Infrastructure Plan. The cost estimate for this project was increased from the amount derived during the Council Infrastructure Plan's development because older estimates were not aligned with the years when construction would actually occur.

## Significant Changes

**2025-2029 CIP:** Funding was increased by \$2.8 million to align with current estimates.

**2024-2028 CIP:** Funding was increased by \$5.2 million in FY 2024 to bring the total project cost more in line with current estimates of \$15.3 million. This increase will be fully offset by State funding earmarked for project in 2022.

**2023-2027 CIP:** Staff will explore the implementation of an electrical distribution system microgrid in conjunction with this project, which may increase the funding required for this project. Federal grant funding may become available for the construction phase.

## CAPITAL IMPROVEMENT FUND

**2022-2026 CIP:** Project start and end dates delayed; this reflects the revised project start date to contribute to cost containment strategies in FY 2022 and timing of the design contract award.

**2021-2025 CIP:** Project start and end dates delayed; this reflects the revised project start date following completion of Fire Station 3 due to staff workload.

**2020-2024 CIP:** Project end date adjusted to reflect expected construction timeline based on construction starting in the beginning of FY 2021.

**2019-2023 CIP:** Project increased by \$0.3 million and the timeline was pushed out to begin construction in FY 2021.

**2018-2022 CIP:** Timeline adjusted to reflect initial funding availability.

### Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Capital Improvement Fund	(5,266,749)	6,872,700	(1,234,306)	11,311,913	0	0	0	0	11,311,913	0	4,810,858
Revenue from the State of California	5,200,000	0	0	0	0	0	0	0	0	0	5,200,000
Transfer frm New Pub. Fac. Impact Fee Fund	0	0	0	95,093	0	0	0	0	95,093	0	95,093
Transfer from Stanford University Medical Ctr Fund	750,000	3,325,000	3,325,000	4,075,000	0	0	0	0	4,075,000	0	8,150,000
<b>Total</b>	<b>\$683,251</b>	<b>\$10,197,700</b>	<b>\$2,090,694</b>	<b>\$15,482,006</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$15,482,006</b>	<b>\$0</b>	<b>\$18,255,951</b>

### Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Construction	8,015	9,803,600	1,696,594	15,482,006	0	0	0	0	15,482,006	0	17,186,615
Design	675,231	394,100	394,100	0	0	0	0	0	0	0	1,069,331
<b>Total</b>	<b>\$683,246</b>	<b>\$10,197,700</b>	<b>\$2,090,694</b>	<b>\$15,482,006</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$15,482,006</b>	<b>\$0</b>	<b>\$18,255,946</b>

### Operating Impacts

	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total
General Fund-Operating	0	9,800	10,100	10,400	10,700	41,000

#### Operating Impact

This project is anticipated to impact operating expenses in the future. Maintenance is estimated to increase from the maintenance costs for the current fire station by \$10,000 in FY2027 and increase by 3% annually thereafter.

# CAPITAL IMPROVEMENT FUND

**Relationship to Comprehensive Plan  
Primary Connection**

Element: Community Services &  
Facilities  
Section: Maintenance of Parks and  
Community Facilities  
Goal: C-3  
Policy: C-3.2

**Potential Board/Commission Review:**

Planning and Transportation  
Commission  
Architectural Review Board

**Environmental Impact Analysis:**

This project is expected to have a possible exemption from CEQA under Section 15302.





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## CAPITAL IMPROVEMENT FUND



Rendering of Palo Alto Homekey

# Homekey Facilities

## Description

This project involves relocating the City of Palo Alto (City) GreenWaste facility from its current site on one portion of 1237 San Antonio Road to the rear portion of the same site as a result of adding the Homekey Palo Alto interim housing shelter. Homekey Palo Alto will be operated by LifeMoves who will provide intensive, customized case management for clients including counseling, employment and housing search services with the goal of paving a dignified path to self-sufficiency.

The City of Palo Alto and LifeMoves were awarded \$26.6 million from the State to develop an interim housing shelter with the capacity to serve over 300 individuals annually with on-site support services. The grant award is a part of a statewide effort to sustain and rapidly expand housing for those who are experiencing or at risk of homelessness.

## Justification

Homekey Palo Alto is the first of its kind for the City of Palo Alto. LifeMoves has partnered with several communities to further a sustainable model providing capacity to quickly and effectively transition unhoused individuals off the streets and into interim supportive housing. The City of Palo Alto has also focused on unhoused services as part of City Council priorities and through funding the City's human services facilitated by local non-profit and community partnerships. The Homekey Palo Alto shelter will continue the LifeMoves model and expand the City's unhoused services through partnerships with existing community services.

## Supplemental Information

Funding in this project will be used to cover the City's portion of capital costs related to the relocation of the GreenWaste facility and building the interim housing shelter at the 1237 San Antonio Road site. In addition to support from the Infrastructure Reserve, FY 2024 includes a \$2.5 million transfer from the General Fund con-

**Fund:** Capital Improvement Fund  
**Category:** Buildings and Facilities  
**Project Location:** 1237 San Antonio Road  
**Managing Department:** Public Works  
**IBRC Reference:** New  
**Initial Project Start:** Winter 2023  
**Initial Project Completion:** Spring 2025  
**Revised Project Start:** N/A  
**Revised Project Completion:** N/A  
**Project Number:** PE-24005

# CAPITAL IMPROVEMENT FUND

sisting of \$2.0 million in Homekey Operations savings and \$500,000 of Measure K Business Tax revenue to offset costs for affordable housing and unhoused services.

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Capital Improvement Fund</b>	0	2,000,000	(2,401,986)	4,846,696	0	0	0	0	4,846,696	0	2,444,710
<b>Transfer from General Fund</b>	0	2,500,000	2,500,000	0	0	0	0	0	0	0	2,500,000
<b>Total</b>	<b>\$0</b>	<b>\$4,500,000</b>	<b>\$98,014</b>	<b>\$4,846,696</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$4,846,696</b>	<b>\$0</b>	<b>\$4,944,710</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Construction</b>	0	4,000,000	0	4,404,100	0	0	0	0	4,404,100	0	4,404,100
<b>Design</b>	0	500,000	98,014	442,596	0	0	0	0	442,596	0	540,610
<b>Total</b>	<b>\$0</b>	<b>\$4,500,000</b>	<b>\$98,014</b>	<b>\$4,846,696</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$4,846,696</b>	<b>\$0</b>	<b>\$4,944,710</b>

## Operating Impacts

	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total
<b>General Fund-Operating</b>	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	5,000,000

### Operating Impact

The City Council approved funding for \$7.0 million in operating costs at the rate of \$1.0 million annually once the shelter is operating. This funding was approved as part of the FY 2023 Adopted Budget and is estimated to be funded annually from FY 2025 through FY 2031.

<p><b>Relationship to Comprehensive Plan Primary Connection</b></p> <p>Element: Community Services &amp; Facilities                  Section: Efficient and Effective Service Delivery                  Goal: C-1                  Policy: C-1.22                  Program: C1.22.2</p>	<p><b>Potential Board/Commission Review:</b></p> <p>Planning and Transportation Commission                  Architectural Review Board</p>
<p><b>Environmental Impact Analysis:</b>                  A Notice of Exemption has already been filed for an emergency project exemption under section 15269 (c).</p>	

## CAPITAL IMPROVEMENT FUND



Junior Museum Exhibit, March 2017

# JMZ Renovation

## Description

This project provides funding to relocate the Palo Alto Junior Museum & Zoo (JMZ) for two years to the Cubberley Community Center to facilitate construction of a new JMZ at the current site. This project also includes funding for permit and inspection fees related to the JMZ rebuild project, new exhibitions (including temporary staffing for design and prototyping), deck construction costs (partial), park signage (partial), furniture and equipment costs, payment and performance bonds, and re-opening marketing and outreach expenses.

## Justification

The Cubberley campus provides a suitable temporary location for JMZ operations to remain open to the public. Classrooms will be used for programming, exhibits, education, and summer camps. The Auditorium provides space for staff, teachers, administration, collections, and indoor animals. The nearby parking lot would be converted to an animal compound to house outdoor animals unable to be placed at another zoo or facility.

## Supplemental Information

An agreement between the City of Palo Alto and the Friends of the Palo Alto Junior Museum and Zoo to replace the existing JMZ with a new building and facilities requires City contributions.

## Significant Changes

**2024-2028 CIP:** The project was extended and funds were re-appropriated for exterior exhibit and completion of various project features.

**2023-2027 CIP:** The project was extended and funds were re-appropriated for exterior exhibit and completion of various project features.

**Fund:** Capital Improvement Fund  
**Category:** Buildings and Facilities  
**Project Location:** 1451 Middlefield Road  
**Managing Department:** Community Services  
**IBRC Reference:** N/A  
**Initial Project Start:** Summer 2017  
**Initial Project Completion:** Summer 2019  
**Revised Project Start:** Summer 2018  
**Revised Project Completion:** Fall 2024  
**Project Number:** AC-18001

## CAPITAL IMPROVEMENT FUND

**2019-2023 CIP:** The budget for this project increased by \$2.8 million, with the majority of funding for new educational exhibits. Other costs include the temporary relocation of the JMZ to the Cubberley Community Center, permit costs, and electrical and plumbing work.

### Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Capital Improvement Fund</b>	109,484	1,271,338	739,715	585,330	0	0	0	0	585,330	0	1,434,529
<b>Revenue from Other Agencies</b>	34,325	0	0	0	0	0	0	0	0	0	34,325
<b>Revenue from the Federal Government</b>	434,390	76,844	76,844	0	0	0	0	0	0	0	511,234
<b>Transfer from Gen. Gov't Fac. Impact Fee Fund</b>	217,162	0	0	0	0	0	0	0	0	0	217,162
<b>Transfer from Parks Development Impact Fee Fund</b>	2,823,075	0	0	0	0	0	0	0	0	0	2,823,075
<b>Total</b>	<b>\$3,618,436</b>	<b>\$1,348,182</b>	<b>\$816,559</b>	<b>\$585,330</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$585,330</b>	<b>\$0</b>	<b>\$5,020,325</b>

### Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Construction</b>	3,306,367	1,348,182	816,559	585,330	0	0	0	0	585,330	0	4,708,256
<b>Design</b>	312,054	0	0	0	0	0	0	0	0	0	312,054
<b>Total</b>	<b>\$3,618,421</b>	<b>\$1,348,182</b>	<b>\$816,559</b>	<b>\$585,330</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$585,330</b>	<b>\$0</b>	<b>\$5,020,310</b>

### Operating Impacts

	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total
<b>General Fund-Operating</b>	340,000	340,000	340,000	340,000	340,000	1,700,000

#### Operating Impact

Anticipated ongoing operating costs have been incorporated into the Community Service Department's operating budget and include new staffing and exhibits, as well as custodial and maintenance costs. New ticketed entry and membership revenues are budgeted to partially offset the increased operating costs.

# CAPITAL IMPROVEMENT FUND

**Relationship to Comprehensive Plan  
Primary Connection**

Element: Community Services &  
Facilities  
Section: Maintenance of Parks and  
Community Facilities  
Goal: C-3  
Policy: C-3.2

**Potential Board/Commission Review:**

Historic Resources Board  
Parks and Recreation Commission  
Planning and Transportation  
Commission  
Architectural Review Board

**Environmental Impact Analysis:**

Relocation portion of this project is CEQA Exempt under 15301 and 15303. A separate Initial Study/Mitigated Negative Declaration is being prepared for the renovation portion of this project.



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## CAPITAL IMPROVEMENT FUND



**Fund:** Capital Improvement Fund  
**Category:** Buildings and Facilities  
**Project Location:** Various Libraries: College Terrace, Children's, and Downtown Libraries.  
**Managing Department:** Library  
**IBRC Reference:** N/A  
**Initial Project Start:** Summer 2021  
**Initial Project Completion:** Summer 2023  
**Revised Project Start:** N/A  
**Revised Project Completion:** Fall 2027  
**Project Number:** LB-21000

Library Material Handling System

# Library Automated Material Handling

## Description

The scope of this project initially was to provide the design and construction of three new Automated Material Handling (AMH) systems for the Library's three smaller branches, College Terrace, Children's, and Downtown Libraries. However, of these three branches, it has been determined that a new AMH system will only be feasible at the Children's Library. AMH systems efficiently sort returned library materials based on the Radio Frequency Identification Devices (RFID) on the materials. This project has been approved for use of Library Impact Fees. In FY 2021, funds from Library Impact Fees were added to the project to include contactless library equipment, such as holds machines and book vending machines, to further increase efficiency and to increase service capacity, allowing the library to serve more patrons. The replacement of the existing AHM machines at the Library's two larger branches, Mitchell Park and Rinconada Libraries, is being added to this project. The machines were installed circa 2014 and are approaching the end of their functional life. A consultant advised replacing both existing machines because they are showing signs of wear, the need for maintenance and repairs has increased, the machines lack features that are standard in newer systems, and the configuration and layout of the systems are not ideal for today. It's important these machines are replaced before one or both completely fail, as library staffing is not sufficient to cover the enormous increase of staff time that would be needed to process materials manually, which would result in significant delays for patrons to access library materials.

## Justification

The Library has made a significant investment in RFID tagging of the entire collection. This project leverages the existing RFID investment to improve overall library system efficiency and improve the speed at which materials can be moved to shelves for library patron hold requests.



## CAPITAL IMPROVEMENT FUND

These machines increase the speed of materials processing by 200-400 percent. Each machine will reduce the amount of staff time needed for processing books (from 41 hours per week currently down to an estimated 20 hours per week), which will increase staff efficiencies in the libraries. Increased automated handling of materials allows staff time to be freed up to focus on public projects (public programs and services) and revenue-generating projects (space rentals and grant-writing).

### Supplemental Information

The original project timeline was spread over three years. Year 1: design of all three libraries and installation at Children’s Library; Year 2: Downtown Library; Year 3: College Terrace Library. Due to limited functionality at the Downtown and College Terrace Libraries, the AMH system will only be installed at the Children’s Library. The highest priority is the Children’s Library due to the high number of returns (second highest circulation out of the five libraries) and current number of staff needed there to respond to high circulation.

### Significant Changes

**2025-2029 CIP:** Project completion date has been extended to Fall 2027 and additional funding of approximately \$0.8 million added to replace the existing AMH machines at Mitchell Park Library and Rinconada Library for a total project cost of \$1.9 million.

**2024-2028 CIP:** During design, the functionality of the AMH was found to be limited at Downtown Library and College Terrace Library due to severe space constraints, so construction of an AMH will only proceed at Children’s Library, and any remaining funds will be considered for other kinds of contactless equipment, such as holds pick-up lockers and vending machines. The project completion date has been revised to Fall 2023 due to long lead times for obtaining the actual AMH equipment.

**2022-2026 CIP:** Implementation sequence changed so Downtown Library will be installed second, and College Terrace will be installed last.

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Capital Improvement Fund	(143,055)	307,997	307,997	38,690	0	844,663	0	0	883,353	0	1,048,295
Transfer from Library Development Impact Fee Fund	310,000	540,000	157,017	382,983	0	0	0	0	382,983	0	850,000
<b>Total</b>	<b>\$166,945</b>	<b>\$847,997</b>	<b>\$465,014</b>	<b>\$421,673</b>	<b>\$0</b>	<b>\$844,663</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,266,336</b>	<b>\$0</b>	<b>\$1,898,295</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Construction	52,707	843,979	460,996	421,673	0	844,663	0	0	1,266,336	0	1,780,039
Design	114,235	4,018	4,018	0	0	0	0	0	0	0	118,253
<b>Total</b>	<b>\$166,942</b>	<b>\$847,997</b>	<b>\$465,014</b>	<b>\$421,673</b>	<b>\$0</b>	<b>\$844,663</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,266,336</b>	<b>\$0</b>	<b>\$1,898,292</b>

# CAPITAL IMPROVEMENT FUND

## Operating Impacts

	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total
<b>General Fund-Operating</b>	0	21,000	22,000	23,000	52,899	118,899

### Operating Impact

The equipment will cause a slight increase in electric bills and will also require annual equipment maintenance. Ongoing operating costs are estimated to be about \$20,000 per machine and these costs are anticipated to increase by 3 percent annually thereafter.

<b>Relationship to Comprehensive Plan Primary Connection</b>	<b>Relationship to Comprehensive Plan Secondary Connection</b>	<b>Potential Board/Commission Review:</b>
Element: Community Services & Facilities Section: Planning for Parks and Community Facilities Goal: C-4 Policy: C-4.4	Element: Governance Section: Public Participation Goal: G-1 Policy: G-1.2 Program: G1.2.4	Library Advisory Commission Planning and Transportation Commission
<b>Environmental Impact Analysis:</b> This project is expected to have a possible exemption from CEQA under Section 15302.		



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**Fund:** Capital Improvement Fund  
**Category:** Buildings and Facilities  
**Project Location:** 1305 Middlefield Road

**Managing Department:** Public Works  
**IBRC Reference:** N/A

**Initial Project Start:** Summer 2023  
**Initial Project Completion:** Fall 2026

**Revised Project Start:** Spring 2024  
**Revised Project Completion:** Summer 2027

**Project Number:** PE-24002

Lucie Stern Community Theater air conditioning enclosure

# Lucie Stern Community Theater Mechanical Equipment Replacement

## Description

This project will upgrade and replace the Heating Ventilation and Air Conditioning (HVAC) system at the Lucie Stern Community Theatre. As a first step, the project will include a detailed feasibility study to determine if natural gas-powered equipment in the facility can be electrified.

## Justification

The Lucie Stern Community Theatre is a focal point for community events in Palo Alto as well as a revenue source generated by ticket sales surcharges. The current HVAC system is nearing the end of its useful life and needs to be replaced to ensure continued audience comfort and the wellbeing of the historic structure.

## Supplemental Information

Public Works installed air conditioning for the Community Theatre over 22 years ago. The Building Management System (BMS) controls are expected to be replaced in late summer 2023 from the Building Systems Improvements project (PF-01003). The new BMS system is a critical upgrade to keep the system working until this project can be completed. The new BMS will be utilized to the greatest extent possible in the new HVAC system design.

Timing for the construction of this HVAC replacement project may impact resident stage companies' ability to utilize the facility for a period of time.

Audience seats will be replaced from the Performing Arts Seat Replacement project (AC-18000) concurrently with the HVAC system replacement and work will be coordinated with other capital projects to minimize the impact to the theater companies. These projects include Fire Curtain Replacement (AC-24001), Stage Rigging Refurbishment (AC-24000), and Lighting Systems Replacement (PE-24003).

# CAPITAL IMPROVEMENT FUND

## Significant Changes

**2025-2029 CIP:** Project start extended to Spring 2024 due to staff prioritizing other projects.

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Capital Improvement Fund	0	221,169	21,335	2,422,073	0	0	0	0	2,422,073	0	2,443,408
<b>Total</b>	<b>\$0</b>	<b>\$221,169</b>	<b>\$21,335</b>	<b>\$2,422,073</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$2,422,073</b>	<b>\$0</b>	<b>\$2,443,408</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Construction	0	0	0	2,202,051	0	0	0	0	2,202,051	0	2,202,051
Design	0	221,169	21,335	220,022	0	0	0	0	220,022	0	241,357
<b>Total</b>	<b>\$0</b>	<b>\$221,169</b>	<b>\$21,335</b>	<b>\$2,422,073</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$2,422,073</b>	<b>\$0</b>	<b>\$2,443,408</b>

## Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

<p><b>Relationship to Comprehensive Plan</b>  <b>Primary Connection</b></p> <p>Element: Community Services &amp; Facilities                  Section: Maintenance of Parks and Community Facilities                  Goal: C-3                  Policy: C-3.2</p> <p><b>Environmental Impact Analysis:</b>                  Possible exemption from CEQA under Section 15301</p>	<p><b>Potential Board/Commission Review:</b></p> <p>Planning and Transportation Commission</p>
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# CAPITAL IMPROVEMENT FUND



**Fund:** Capital Improvement Fund  
**Category:** Buildings and Facilities  
**Managing Department:** Community Services  
**Initial Project Start:** Summer 2023  
**Initial Project Completion:** Fall 2023  
**Revised Project Start:** N/A  
**Revised Project Completion:** Summer 2025  
**Project Number:** AC-24001

Counterweight and fire curtain of the Lucie Stern Community Theatre

## Lucie Stern Community Theatre Fire Curtain

### Description

This project provides funding for replacement of the fire curtain and its associated rigging at the Lucie Stern Community Theatre.

### Justification

The fire curtain is a code-required life safety system designed to separate the stage from the audience in case of a fire in the Theatre. The curtain's rigging must also be replaced because, in 2019, a professional inspection of the stage rigging system noted deficiencies with the emergency release, and also noted the likely presence of asbestos which was confirmed by an environmental consultant.

### Supplemental Information

Work will be coordinated with other capital projects to minimize impact to the theater companies. These projects include Mechanical Equipment Replacement (PE-24002), Stage Rigging Refurbishment (AC-24000), Lighting Systems Replacement (PE-24003), and audience seats will be replaced from the Performing Arts Seat Replacement project (AC-18000).

### Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Capital Improvement Fund	0	221,169	21,169	220,205	0	0	0	0	220,205	0	241,374
<b>Total</b>	<b>\$0</b>	<b>\$221,169</b>	<b>\$21,169</b>	<b>\$220,205</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$220,205</b>	<b>\$0</b>	<b>\$241,374</b>

# CAPITAL IMPROVEMENT FUND

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Construction</b>	0	221,169	21,169	220,205	0	0	0	0	220,205	0	241,374
<b>Total</b>	<b>\$0</b>	<b>\$221,169</b>	<b>\$21,169</b>	<b>\$220,205</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$220,205</b>	<b>\$0</b>	<b>\$241,374</b>

### Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

#### Relationship to Comprehensive Plan Primary Connection

Element: Community Services & Facilities  
Section: Maintenance of Parks and Community Facilities  
Goal: C-3  
Policy: C-3.2

#### Potential Board/Commission Review:

Planning and Transportation Commission

#### Environmental Impact Analysis:

This project is expected to have a possible exemption from CEQA under Section 15301.

## CAPITAL IMPROVEMENT FUND



Lucie Stern Community Theater main entrance

**Fund:** Capital Improvement Fund  
**Category:** Buildings and Facilities  
**Project Location:** 1305 Middlefield Road  
**Managing Department:** Public Works  
**IBRC Reference:** N/A  
**Initial Project Start:** Summer 2023  
**Initial Project Completion:** Fall 2025  
**Revised Project Start:** N/A  
**Revised Project Completion:** N/A  
**Project Number:** PE-24003

# Lucie Stern Community Theatre Theatrical and House Lighting System Replacement

## Description

This project will upgrade and replace lighting systems at the Lucie Stern Community Theatre for back stage work areas, the performance stage, and audience areas.

## Justification

Features and upgraded effects that resident theater companies require for their performances have outgrown the existing lighting system, leaving a deficit in the illumination required for back stage work areas, the performance stage, and audience areas. Currently, the companies bring in additional lighting and audio to subsidize the Theater's equipment, which occasionally creates an overload. In addition, there are approximately two hundred locations powered and controlled throughout the auditorium which are considered ten years past their useful life span. Conversion to light-emitting diodes (LED) will enhance performances, reduce required electrical demands, and subsequently assist in maintaining a comfortable temperature by reduction in heat loads.

## Supplemental Information

Public Works completed over \$2.0 million in electrical backbone upgrades to the Lucie Stern Community Theater in FY 2017 and FY 2018. That project replaced and upgraded major electrical components such as the main switchgear, the main distribution panels, and breakers. In addition, a company switch was added to allow the various stage companies easy access to plug into the system.

Work will be coordinated with other capital projects to minimize impact to the theater companies. These projects include Mechanical Equipment Replacement (PE-24002), Fire Curtain Replacement (AC-24001), Stage Rigging Refurbishment (AC-24000), and audience seats will be replaced from the Performing Arts Seat Replacement project (AC-18000).



# CAPITAL IMPROVEMENT FUND

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Capital Improvement Fund	0	55,292	28,942	304,268	0	0	0	0	304,268	0	333,210
<b>Total</b>	<b>\$0</b>	<b>\$55,292</b>	<b>\$28,942</b>	<b>\$304,268</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$304,268</b>	<b>\$0</b>	<b>\$333,210</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Construction	0	0	0	275,256	0	0	0	0	275,256	0	275,256
Design	0	55,292	28,942	29,012	0	0	0	0	29,012	0	57,954
<b>Total</b>	<b>\$0</b>	<b>\$55,292</b>	<b>\$28,942</b>	<b>\$304,268</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$304,268</b>	<b>\$0</b>	<b>\$333,210</b>

### Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

#### Relationship to Comprehensive Plan Primary Connection

Element: Community Services & Facilities  
Section: Maintenance of Parks and Community Facilities  
Goal: C-3  
Policy: C-3.2

#### Potential Board/Commission Review:

Planning and Transportation Commission

#### Environmental Impact Analysis:

Possible exemption from CEQA under Section 15301

# CAPITAL IMPROVEMENT FUND



**Fund:** Capital Improvement Fund  
**Category:** Buildings and Facilities  
**Managing Department:** Community Services  
**IBRC Reference:** N/A  
**Initial Project Start:** Summer 2025  
**Initial Project Completion:** Fall 2025  
**Revised Project Start:** N/A  
**Revised Project Completion:** N/A  
**Project Number:** AC-26000

El Palo Alto Room and screen at Mitchell Park Community Center

## Mitchell Park Community Center Audio Visual Equipment

### Description

This project will replace the built-in audio visual equipment at the Mitchell Park Community Center because the equipment is either nonfunctioning or functioning in limited capacity.

### Justification

The age and complexity of the existing system makes repairs more difficult. The current issues include non-operational and dim projectors, a torn screen with limited movement, and a broken sound system. Currently, staff is using rentals as needed, but this is not a sustainable solution.

### Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Capital Improvement Fund	0	0	0	0	381,954	0	0	0	381,954	0	381,954
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$381,954</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$381,954</b>	<b>\$0</b>	<b>\$381,954</b>

### Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Construction	0	0	0	0	381,954	0	0	0	381,954	0	381,954
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$381,954</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$381,954</b>	<b>\$0</b>	<b>\$381,954</b>

**Operating Impact**

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

<b>Relationship to Comprehensive Plan Primary Connection</b>	<b>Potential Board/Commission Review:</b>
Element: Community Services & Facilities Section: Maintenance of Parks and Community Facilities Goal: C-3 Policy: C-3.2	Parks and Recreation Commission Planning and Transportation Commission
<b>Environmental Impact Analysis:</b> This project is expected to have a possible exemption from CEQA under Section 15301.	



**Fund:** Capital Improvement Fund  
**Category:** Buildings and Facilities  
**Project Location:** 3700 Middlefield Road  
**Managing Department:** Public Works  
**IBRC Reference:** N/A  
**Initial Project Start:** Summer 2023  
**Initial Project Completion:** Spring 2024  
**Revised Project Start:** N/A  
**Revised Project Completion:** Fall 2024  
**Project Number:** PE-24006

Damage to Mitchell Park Library Building

# Mitchell Park Library Repair

## Description

This project will fund the design and repair of the damage caused by a vehicular accident in January 2023. A vehicle ran into the north wall of the Mitchell Park Library near the center of the building. The car impacted an area of the stone cladding on cold-formed steel studs, causing the cladding to fall from the wall and the wall to bulge into the building's interior. The extent of damage to the studs and the building's steel-framed structure is unknown.

## Justification

A structural consultant will be required to review the impact zone and its potential structural impact. A design consultant is also required to prepare the construction drawings necessary to repair the building. A construction contract will be required to perform the repairs.

## Supplemental Information

Full expenses are not known at this time, and \$250,000 is only an estimate to start the assessment of the damage and the initial design work. Staff will update the project budget once structural assessment and design are completed, and coordinate with insurance to ensure that all expenses are reimbursed.

## Significant Changes

**2025-2029 CIP:** Project completion date revised to Fall 2024 due to staff workload.

# CAPITAL IMPROVEMENT FUND

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Capital Improvement Fund	0	250,000	86,270	180,270	0	0	0	0	180,270	0	266,540
<b>Total</b>	<b>\$0</b>	<b>\$250,000</b>	<b>\$86,270</b>	<b>\$180,270</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$180,270</b>	<b>\$0</b>	<b>\$266,540</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Construction	0	250,000	86,270	180,270	0	0	0	0	180,270	0	266,540
<b>Total</b>	<b>\$0</b>	<b>\$250,000</b>	<b>\$86,270</b>	<b>\$180,270</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$180,270</b>	<b>\$0</b>	<b>\$266,540</b>

### Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

#### Relationship to Comprehensive Plan

##### Primary Connection

Element: Community Services & Facilities  
 Section: Maintenance of Parks and Community Facilities  
 Goal: C-3  
 Policy: C-3.2

#### Potential Board/Commission Review:

Planning and Transportation Commission

#### Environmental Impact Analysis:

This project is expected to have a possible exemption from CEQA under Section 15301.

## CAPITAL IMPROVEMENT FUND



**Fund:** Capital Improvement Fund  
**Category:** Buildings and Facilities  
**Project Location:** 3201 East Bayshore Road  
**Managing Department:** Public Works  
**IBRC Reference:** Keep-up  
**Initial Project Start:** Summer 2016  
**Initial Project Completion:** Spring 2018  
**Revised Project Start:** N/A  
**Revised Project Completion:** Spring 2025  
**Project Number:** PF-16006

Municipal Services Center Building C, March 2015

# Municipal Service Center Lighting, Mechanical, and Electrical Improvements

## Description

This project provides funding for the replacement of original mechanical and electrical systems and lighting installed in 1966 in the Municipal Service Center's (MSC) Buildings A, B, and C. The project also includes the renovation of office space and shop areas in Building C.

## Justification

Mechanical, electrical, and lighting equipment in the MSC is inefficient and outdated. Various remodels have occurred in the administrative and shop areas, adding load to the mechanical and electrical systems, and the use of many other areas has changed over the years without adequate upgrades to the building systems. For these reasons, the systems no longer support the current operation of the site.

## Supplemental Information

The Refuse Fund, Vehicle Replacement and Maintenance Fund, and Utilities Administration Fund will reimburse the Capital Improvement Fund for a portion of this project, as fund-related operations benefit from the building improvements.

## Significant Changes

**2025-2029 CIP:** Project timeline extended to Spring 2025 due to delays obtaining Building Permit.

**2024-2028 CIP:** Project timeline extended to Fall 2024 due to expected one-year lead time to procure and manufacture the switch gear. Electrical equipment availability has been impacted by the global pandemic and economic events in recent years. Funding increased by approximately \$0.7 million for a total project cost of \$8.8 million due to inflated costs of equipment and labor.

## CAPITAL IMPROVEMENT FUND

**2023-2027 CIP:** Project timeline extended due to coordination with the Fleet Electric Vehicle strategic planning process.

**2022-2026 CIP:** Project timeline extended due to project reprioritization.

**2021-2025 CIP:** Project timeline extended to reflect additional project redesign work to allow for more Electric Vehicle (EV) chargers and future electrification of the newer mechanical systems at the MSC.

**2020-2024 CIP:** Bids received were rejected due to budget exceedance. Funding added to account for severe construction cost escalation and partial redesign to provide additional infrastructure for future electrification of vehicle fleet. Project end date adjusted due to the redesign and rebidding required.

**2019-2023 CIP:** Project cost estimates indicate mechanical and electrical work in Building B require additional funding of \$0.8 million.

**2017-2021 CIP:** Additional funding of \$0.4 million added for Building C office space renovation.

### Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Capital Improvement Fund</b>	(1,285,062)	6,599,908	734,404	6,508,580	0	0	0	0	6,508,580	0	5,957,922
<b>Transfer from Refuse Fund</b>	55,070	10,000	0	10,000	0	0	0	0	10,000	0	65,070
<b>Transfer from Utilities Administration Fund</b>	1,502,835	315,000	0	315,000	0	0	0	0	315,000	0	1,817,835
<b>Transfer from Vehicle Replacement and Maintenance</b>	834,909	175,000	0	175,000	0	0	0	0	175,000	0	1,009,909
<b>Total</b>	<b>\$1,107,752</b>	<b>\$7,099,908</b>	<b>\$734,404</b>	<b>\$7,008,580</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$7,008,580</b>	<b>\$0</b>	<b>\$8,850,736</b>

### Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Construction</b>	446,099	7,039,924	674,420	7,008,580	0	0	0	0	7,008,580	0	8,129,099
<b>Design</b>	661,637	59,984	59,984	0	0	0	0	0	0	0	721,621
<b>Total</b>	<b>\$1,107,736</b>	<b>\$7,099,908</b>	<b>\$734,404</b>	<b>\$7,008,580</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$7,008,580</b>	<b>\$0</b>	<b>\$8,850,720</b>

### Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

# CAPITAL IMPROVEMENT FUND

**Relationship to Comprehensive Plan  
Primary Connection**

Element: Community Services &  
Facilities  
Section: Maintenance of Parks and  
Community Facilities  
Goal: C-3  
Policy: C-3.2

**Potential Board/Commission Review:**

Planning and Transportation  
Commission

**Environmental Impact Analysis:**

This project is expected to have a possible exemption from CEQA under Section 15301.





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## CAPITAL IMPROVEMENT FUND



**Fund:** Capital Improvement Fund  
**Category:** Buildings and Facilities  
**Project Location:** 350 Sherman Avenue  
**Managing Department:** Public Works  
**IBRC Reference:** New  
**Initial Project Start:** Summer 2017  
**Initial Project Completion:** Fall 2020  
**Revised Project Start:** Fall 2016  
**Revised Project Completion:** Winter 2020  
**Project Number:** PE-18000

**New California Avenue Area Garage Design Option Rendering**

# New California Avenue Area Parking Garage

## Description

This project provides funding for the design and construction of a new public parking garage on the existing Lot C-7 in the California Avenue commercial area. The project will include approximately 636 parking stalls and will have two below-ground and four above-ground levels.

## Justification

A new parking garage is needed in the California Avenue commercial area. A new garage will increase parking supply and reduce parking spillover into nearby residential neighborhoods. Additionally, the new garage will replace the parking spaces that will be lost when the new Public Safety Building is constructed on the adjacent Lot C-6. Construction of the new garage must be completed before construction of the Public Safety Building can begin.

## Supplemental Information

The New California Avenue Area Parking Garage project is included in the Council Infrastructure Plan and is supported through debt financing. The garage was completed in December 2020; however, funding is budgeted in FY 2023 for completion of final punch list items with the contractor.

## Significant Changes

**2025-2029 CIP:** Final punch list item "Day 2" project will continue into FY 2025 and includes installation of flexible connections for the Automated Parking Guidance sensor light pendants that are being damaged by tall vehicles.

**2024-2028 CIP:** The garage was completed in December 2020, but \$0.8 million was reappropriated to FY 2024 for completion of final punch list items.

## CAPITAL IMPROVEMENT FUND

**2023-2027 CIP:** The garage was completed in December 2020, but \$0.8 million is budgeted in FY 2023 for completion of final punch list items.

**2020-2024 CIP:** Project completion revised to reflect additional design and construction time for groundwater exclusionary techniques (i.e. installation of cut-off walls).

**2019-2023 CIP:** Budget increased to reflect total project cost estimate of \$47.9 million. Anticipated completion date adjusted due to design delays resulting from the Architectural Review Board (ARB) and Environmental Impact Report (EIR) processes.

**2017-2021 CIP:** Project schedule adjusted to begin and end earlier, reflecting need for phasing of garage and Public Safety Building projects.

### Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Bond Proceeds</b>	41,995,000	0	0	0	0	0	0	0	0	0	41,995,000
<b>Capital Improvement Fund</b>	7,409,314	803,434	68,416	735,018	0	0	0	0	735,018	0	8,212,748
<b>Total</b>	<b>\$49,404,314</b>	<b>\$803,434</b>	<b>\$68,416</b>	<b>\$735,018</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$735,018</b>	<b>\$0</b>	<b>\$50,207,748</b>

### Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Construction</b>	46,625,503	795,428	60,410	735,018	0	0	0	0	735,018	0	47,420,931
<b>Design</b>	2,778,791	8,005	8,005	0	0	0	0	0	0	0	2,786,796
<b>Total</b>	<b>\$49,404,294</b>	<b>\$803,433</b>	<b>\$68,415</b>	<b>\$735,018</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$735,018</b>	<b>\$0</b>	<b>\$50,207,727</b>

### Operating Impacts

	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total
<b>California Avenue Parking Permits</b>	128,000	131,000	135,000	139,000	143,000	676,000

#### Operating Impact

Custodial and maintenance costs were budgeted for this project starting in FY 2021 and increase by 3% annually thereafter.

# CAPITAL IMPROVEMENT FUND

**Relationship to Comprehensive Plan  
Primary Connection**

Element: Transportation  
Section: Parking  
Goal: T-5  
Policy: T-5.6

**Potential Board/Commission Review:**

Planning and Transportation  
Commission  
Architectural Review Board

**Environmental Impact Analysis:**

This project will require an environmental impact report, combined with the Public Safety Building Project, in accordance with CEQA guidelines.



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## CAPITAL IMPROVEMENT FUND



**Fund:** Capital Improvement Fund  
**Category:** Buildings and Facilities  
**Project Location:** Parking Lot D (Hamilton Avenue/  
Waverley Street)  
**Managing Department:** Public Works  
**IBRC Reference:** New  
**Initial Project Start:** Spring 2015  
**Initial Project Completion:** Fall 2018  
**Revised Project Start:** Summer 2024  
**Revised Project Completion:** Summer 2027  
**Project Number:** PE-15007

Hamilton Avenue/Waverley Street, March 2015

# New Downtown Parking Garage

## Description

This project provides funding for a new public parking garage in the University Avenue commercial area at existing Parking Lot D at the corner of Hamilton Avenue and Waverley Street. The project will evaluate the feasibility of including retail and stacked parking as part of the new structure. Design and environmental consultant services will be needed, including the development of preliminary plans and cost estimates, and completion of the project's environmental review.

## Justification

A new parking garage is part of a multi-pronged strategy to address excessive spillover parking from the University Avenue commercial area into nearby residential neighborhoods.

## Supplemental Information

The New Downtown Parking Garage project is included in the City Council Infrastructure Plan, and a transfer of \$5.5 million from the University In-Lieu Parking Fund is programmed to fund a portion of the new garage. Since Council paused this project in 2019, a Request for Information was issued in January 2023 to solicit feedback from interested developers to examine the feasibility of redeveloping one or more City-owned parcels in downtown Palo Alto to maximize the potential of providing affordable housing and additional public parking to serve downtown.

## Significant Changes

**2025-2029 CIP:** Work on this project is resuming per Council direction on December 11, 2023 (Report #2309-2043).

**2024-2028 CIP:** This project is paused pending review and discussion of the Downtown New Parking & Housing Request for Information results.

## CAPITAL IMPROVEMENT FUND

**2022-2026 CIP:** The design contract was canceled and funding was returned to the Capital Improvement Fund to contribute to cost containment strategies in FY 2022. The \$5.5 million funding from the University In-Lieu Parking Fund remains to support costs associated with this project.

**2021-2025 CIP:** As part of the FY 2021 budget strategy all Capital Improvement Fund funding has been removed and only the downtown parking in-lieu fee funding remains for this project. Potential opportunities to use the remaining funding include public/private partnerships that may result in an increase in public parking spaces.

**2020-2024 CIP:** Funding for this project has been moved out per City Council direction in February 2019 to postpone the project until downtown parking initiatives are determined.

**2019-2023 CIP:** Budget increased to reflect total project cost estimate of \$29.1 million.

**2018-2022 CIP:** In December 2016, a design contract was awarded to Watry Design, Inc. Funding was included in FY 2017 for Phase I of the design work, including environmental review and design through design development. Additional funding is required in FY 2018 to complete the design and construction documents and in FY 2019 for construction administration and project close out.

### Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Capital Improvement Fund	47,909	300,005	2,758	297,247	0	0	0	0	297,247	0	347,914
Transfer from University Ave Parking In Lieu Fund	1,392,400	5,448,600	50,000	5,398,600	0	0	0	0	5,398,600	0	6,841,000
<b>Total</b>	<b>\$1,440,309</b>	<b>\$5,748,605</b>	<b>\$52,758</b>	<b>\$5,695,847</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$5,695,847</b>	<b>\$0</b>	<b>\$7,188,914</b>

### Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Construction	238,861	0	0	0	0	0	0	0	0	0	238,861
Design	1,201,438	5,748,605	52,758	5,695,847	0	0	0	0	5,695,847	0	6,950,043
<b>Total</b>	<b>\$1,440,299</b>	<b>\$5,748,605</b>	<b>\$52,758</b>	<b>\$5,695,847</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$5,695,847</b>	<b>\$0</b>	<b>\$7,188,904</b>

### Operating Impact

This project is anticipated to impact operating expenses in the future. As these costs are quantified, adjustments will be brought forward in future budgets as necessary.

# CAPITAL IMPROVEMENT FUND

**Relationship to Comprehensive Plan  
Primary Connection**

Element: Community Services &  
Facilities  
Section: Planning for Parks and  
Community Facilities  
Goal: C-4  
Policy: C-4.2

**Potential Board/Commission Review:**

Historic Resources Board  
Planning and Transportation  
Commission  
Architectural Review Board

**Environmental Impact Analysis:**

This project is expected to require a CEQA Environmental Impact Report.





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# CAPITAL IMPROVEMENT FUND



**Fund:** Capital Improvement Fund  
**Category:** Buildings and Facilities  
**Project Location:** 1313 Newell Road  
**Managing Department:** Community Services  
**Initial Project Start:** Summer 2024  
**Initial Project Completion:** Summer 2026  
**Revised Project Start:** N/A  
**Revised Project Completion:** N/A  
**Project Number:** AC-28003

Kiln in Storage Shed

## Palo Alto Art Center Ceramics Equipment

### Description

This project renews and replaces ceramics program equipment, upgrades facility wifi and electrical infrastructure, and waterproofs outdoor kiln sheds.

### Justification

The majority of the Art Center's existing ceramics equipment was obtained during the renovation of the Art Center in 2011 and 2012. Financed by the Palo Alto Art Center Foundation, these assets were generously donated for use at the Art Center by the City. However, these pieces of equipment are showing signs of aging, necessitating facility updates, including electrical and wifi upgrades.

### Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Capital Improvement Fund	0	0	0	85,879	95,488	0	0	0	181,367	0	181,367
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$85,879</b>	<b>\$95,488</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$181,367</b>	<b>\$0</b>	<b>\$181,367</b>

### Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Design	0	0	0	85,879	95,488	0	0	0	181,367	0	181,367
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$85,879</b>	<b>\$95,488</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$181,367</b>	<b>\$0</b>	<b>\$181,367</b>

**Operating Impact**

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

<b>Relationship to Comprehensive Plan Primary Connection</b>	<b>Potential Board/Commission Review:</b>
Element: Community Services & Facilities Section: Maintenance of Parks and Community Facilities Goal: C-3 Policy: C-3.2	Planning and Transportation Commission
<b>Environmental Impact Analysis:</b> This project is expected to have a possible exemption from CEQA under Section 15301.	

## CAPITAL IMPROVEMENT FUND



**Fund:** Capital Improvement Fund  
**Category:** Buildings and Facilities  
**Project Location:** Children's Theatre, Community Theatre, and Cubberley Theatre  
**Managing Department:** Community Services  
**IBRC Reference:** New  
**Initial Project Start:** Summer 2017  
**Initial Project Completion:** Summer 2018  
**Revised Project Start:** Summer 2020  
**Revised Project Completion:** Summer 2024  
**Project Number:** AC-18000

Children's Theatre, January 2016

# Performing Arts Venues Seat Replacement

## Description

This project provides funding for the replacement of damaged or non-functioning seats at two of the City's performing arts venues: Children's Theater and Lucie Stern Community Theater.

## Justification

The seats at these City's two theater sites are beyond their useful life and due for replacement based on their age and condition.

## Supplemental Information

Beginning July 1, 2019, the resident theater companies that use the Lucie Stern Community Theatre (West Bay Opera, Palo Alto Players, and TheatreWorks) signed a contract with the City to collect a fee of \$2.00 for each ticket sold for events with paid admission. This fee will be used to offset the costs of enhancements, upgrades, improvements, repairs, preservation, and new equipment and furnishings for the Lucie Stern Community Theatre. The seating upgrade project qualifies for use of this funding source to partially reimburse the costs of the project.

## Significant Changes

**2024-2028 CIP:** The seat replacement at Children's Theater was completed in December 2022; the remaining funding is for the Lucie Stern Community Theater and work will be coordinated with other capital projects at the theater to minimize the impact to the theater companies. These projects include Mechanical Equipment Replacement (PE-24002), Fire Curtain Replacement (AC-24001), Stage Rigging Refurbishment (AC-24000), and Lighting Systems Replacement (PE-24003).

# CAPITAL IMPROVEMENT FUND

**2023-2027 CIP:** Funding increased by \$0.7 million to replace the seats at the Lucie Stern Community Theater and implement ADA compliance design. Prior funding was used for Children’s Theatre seat replacement and Cubberley Theater was removed from the scope of the project.

**2020-2024 CIP:** Project scope changed from replacing damaged and non-functioning seats to replacing all seats and funding increased by \$0.3 million.

**2017-2021 CIP:** Project established.

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Capital Improvement Fund	438,342	809,227	469,251	374,322	0	0	0	0	374,322	0	1,281,915
<b>Total</b>	<b>\$438,342</b>	<b>\$809,227</b>	<b>\$469,251</b>	<b>\$374,322</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$374,322</b>	<b>\$0</b>	<b>\$1,281,915</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Construction	422,720	759,353	419,377	374,322	0	0	0	0	374,322	0	1,216,419
Design	15,616	49,874	49,874	0	0	0	0	0	0	0	65,490
<b>Total</b>	<b>\$438,336</b>	<b>\$809,227</b>	<b>\$469,251</b>	<b>\$374,322</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$374,322</b>	<b>\$0</b>	<b>\$1,281,909</b>

## Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

<p><b>Relationship to Comprehensive Plan</b>  <b>Primary Connection</b></p> <p>Element: Community Services &amp; Facilities          Section: Maintenance of Parks and Community Facilities          Goal: C-3          Policy: C-3.2</p> <p><b>Environmental Impact Analysis:</b>          This project is expected to have a possible exemption from CEQA under Section 15302.</p>	<p><b>Potential Board/Commission Review:</b></p> <p>Planning and Transportation Commission</p>
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## CAPITAL IMPROVEMENT FUND



**Fund:** Capital Improvement Fund  
**Category:** Buildings and Facilities  
**Project Location:** 777 Embarcadero Road  
**Managing Department:** Public Works  
**IBRC Reference:** New  
**Initial Project Start:** Summer 2023  
**Initial Project Completion:** Spring 2025  
**Revised Project Start:** N/A  
**Revised Project Completion:** N/A  
**Project Number:** PE-24004

Storage room at Rinconada Pool, possible area for the family changing room

# Rinconada Pool Family Changing Room

## Description

The project constructs a gender-neutral restroom and family changing facility that is compliant with the Americans With Disabilities Act (ADA) at the Rinconada Pool. The facility will include two separate rooms, each consisting of a toilet, sink, shower, and child/adult changing station. The facility will provide community members who have special needs, and individuals who require privacy, an accessible space for changing and personal hygiene.

## Justification

The Rinconada Pool was built in the late 1950s and lacks amenities to make the pool facility accessible to all members of the community. There are currently two locker rooms, one female and one male, and neither has private changing areas nor private showers. Parents of children with special needs have explained that they are unable to use the pool because they cannot bring their different-gender children into the locker room. Other members of the community with certain privacy needs will also benefit by having access to the new facility. The project will help remove barriers to fitness and wellness, providing a welcoming and inclusive space for all families and individuals to enjoy.

## Supplemental Information

This project scope and funding was previously included in the Rinconada Park Improvements project (PE-08001) but is being separated into its own project in FY 2024.

## Significant Changes

**2025-2029 CIP:** Funding increased due to cost escalation, offset by General Government Facilities Development Impact Fees that have been allocated to this project.

# CAPITAL IMPROVEMENT FUND

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Capital Improvement Fund	0	26,461	(173,609)	950,142	0	0	0	0	950,142	0	776,533
Transfer frm Gen. Gov't Fac. Impact Fee Fund	0	0	0	121,165	0	0	0	0	121,165	0	121,165
Transfer from Parks Dedication Fund	0	250,000	250,000	250,000	0	0	0	0	250,000	0	500,000
<b>Total</b>	<b>\$0</b>	<b>\$276,461</b>	<b>\$76,391</b>	<b>\$1,321,307</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,321,307</b>	<b>\$0</b>	<b>\$1,397,698</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Construction	0	0	0	1,101,025	0	0	0	0	1,101,025	0	1,101,025
Design	0	276,461	76,391	220,282	0	0	0	0	220,282	0	296,673
<b>Total</b>	<b>\$0</b>	<b>\$276,461</b>	<b>\$76,391</b>	<b>\$1,321,307</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,321,307</b>	<b>\$0</b>	<b>\$1,397,698</b>

### Operating Impact

Additional custodial and routine maintenance costs will increase to service this new facility. As these costs are quantified, adjustments will be brought forward in future budgets as necessary.

<p><b>Relationship to Comprehensive Plan</b>  <b>Primary Connection</b></p> <p>Element: Community Services &amp; Facilities          Section: Efficient and Effective Service Delivery          Goal: C-1          Policy: C-1.2          Program: C1.2.4</p> <p><b>Environmental Impact Analysis:</b>          Possible exemption from CEQA under Section 15302</p>	<p><b>Potential Board/Commission Review:</b></p> <p>Historic Resources Board          Parks and Recreation Commission          Planning and Transportation Commission          Architectural Review Board</p>
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**Fund:** Capital Improvement Fund  
**Category:** Buildings and Facilities  
**Project Location:** Various  
**Managing Department:** Public Works  
**IBRC Reference:** Keep-up  
**Initial Project Start:** Recurring  
**Initial Project Completion:** Recurring  
**Revised Project Start:** N/A  
**Revised Project Completion:** N/A  
**Project Number:** PF-00006

Fire Station 2, January 2015

## Roofing Replacement

### Description

This project provides funding for ongoing roofing maintenance at various City facilities. Services include major repairs, rehabilitation, and replacement, and components include roof decks, drainage systems, and sheet metal. Roofs scheduled for replacement are based on an annual evaluation of their condition.

### Justification

The life expectancy of most roofs at City facilities is 20 to 25 years. There are facilities in the inventory with roof systems that are beyond or near the end of their useful life.

### Supplemental Information

Facilities scheduled for re-roofing are as follows:

**Fiscal Year 2025:** Lucie Stern Community Theater (pitch roof)

**Fiscal Year 2026:** Foothills Park Equipment Storage roof

**Fiscal Year 2027:** Police Department (lower roof)

**Fiscal Year 2028:** Lucie Stern Community Theater flat roof and scene shop

**Fiscal Year 2029:** Avenidas Building

### Significant Changes

**2025-2029 CIP:** Due to staffing and funding constraints, several projects had to be rescheduled and prioritized based on the current facility condition. Lucie Stern Community Theater pitch roof was moved from FY 2026 to FY 2025. At the same time, Foothills Park Equipment Storage roof work was postponed to FY 2026, while the Police Department's lower roof work is scheduled for FY 2027. The replacement of Lucie Stern Community



## CAPITAL IMPROVEMENT FUND

Theater’s flat and scene shop roofs have remained in the FY 2028 workplan. Avenidas Building roof replacement is now scheduled for FY 2029 from the original FY 2027 schedule.

**2024-2028 CIP:** Funding for the Foothills Nature Preserve equipment storage, garage, and maintenance/equipment shops, which had shifted from FY 2027 to FY 2025, has now been removed as part of a balancing strategy to address competing infrastructure needs across the City.

**2023-2027 CIP:** Funding was increased and reprogrammed to accommodate the addition of Animal Services in FY 2024, the Community Theater (pitch roof) in FY 2025, and the Avenidas Building in FY 2026. The Police Department (lower roof) moved from FY 2024 to FY 2026, and the Foothills Nature Preserve buildings moved from FY 2026 to FY 2027. All together, the 5-year CIP total increased by \$3.2 million to \$6.2 million.

**2022-2026 CIP:** Project costs aligned to meet prevailing wage, with a small portion related to gutter/drain replacement for Lucie Stern Community Center. No roofs are currently being proposed in FY 2025, however there are roofs proposed in FY 2026.

**2021-2025 CIP:** Funding was reduced as part of the FY 2021 Capital Improvement Program budget strategy. Baylands Athletic Center Snack Bar & Restrooms and Mitchell Park Tiny Tots Restroom added for FY 2021 and all other projects moved out a year.

**2020-2024 CIP:** Avenidas Senior Center moved to FY 2020 from FY 2021 and Lucie Stern Community Center

**2019-2023 CIP:** Mitchell Park Storage Pool Filter Facility and Arastradero Gate Way will replace the animal shelter in FY 2019.

**2018-2022 CIP:** Funding for Ventura Unit 3 has been moved from FY 2021 to 2018 due to its condition and the scheduled work on other Ventura units. The Avenidas Senior Center has been added to FY 2021.

### Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Capital Improvement Fund	N/A	2,027,465	469,469	1,316,825	278,603	1,018,099	326,027	598,593	3,538,147	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$2,027,465</b>	<b>\$469,469</b>	<b>\$1,316,825</b>	<b>\$278,603</b>	<b>\$1,018,099</b>	<b>\$326,027</b>	<b>\$598,593</b>	<b>\$3,538,147</b>	<b>\$0</b>	<b>N/A</b>

### Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Construction	N/A	2,027,465	469,469	1,316,825	278,603	1,018,099	326,027	598,593	3,538,147	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$2,027,465</b>	<b>\$469,469</b>	<b>\$1,316,825</b>	<b>\$278,603</b>	<b>\$1,018,099</b>	<b>\$326,027</b>	<b>\$598,593</b>	<b>\$3,538,147</b>	<b>\$0</b>	<b>N/A</b>

### Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

# CAPITAL IMPROVEMENT FUND

**Relationship to Comprehensive Plan  
Primary Connection**

Element: Community Services &  
Facilities  
Section: Maintenance of Parks and  
Community Facilities  
Goal: C-3  
Policy: C-3.2

**Potential Board/Commission Review:**

Historic Resources Board  
Parks and Recreation Commission  
Planning and Transportation  
Commission  
Architectural Review Board

**Environmental Impact Analysis:**

This project is expected to have a possible exemption from CEQA under Section 15301 except for historic buildings.



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## CAPITAL IMPROVEMENT FUND



**Fund:** Capital Improvement Fund

**Category:** Buildings and Facilities

**Project Location:** 300 Homer Avenue

**Managing Department:** Public Works

**IBRC Reference:** New

**Initial Project Start:** Winter 2022

**Initial Project Completion:** Summer 2024

**Revised Project Start:** Summer 2023

**Revised Project Completion:** Fall 2024

**Project Number:** PF-23001

### Roth Building

# Roth Building Rehabilitation Phase 1

## Description

This project provides funding for Phase 1 of the rehabilitation and build-out of the Roth Building facility. Phase I will make the building suitable for occupancy, also known as a “warm shell.” Phase II of the rehabilitation includes the interior build-out of the museum and exhibits, readying the facility to welcome visitors, and will be fully funded by the Palo Alto Museum (PAM).

## Justification

The Roth Building is a historic City-owned facility that is currently vacant and in disrepair. Extensive work is needed to repair and secure the building exterior and to update the interior for use. Discussions have occurred over the last several years with the PAM to rehabilitate the building in order to make it habitable (Phase 1) and to convert the interior into a museum (Phase 2).

## Supplemental Information

Funding for this project comes from several sources, including the following: Transfer of Development Rights Fund that must be used for the rehabilitation of a City-owned building in the historic or seismic categories listed in Palo Alto Municipal Code Section 18.28.060 (\$5.1 million); Stanford University Medical Center (SUMC) Fund (\$2.0 million); Community Center Development Impact Fee Fund for a community room (\$1.65 million); PAM donations (\$1.0 million); Parks Development Impact Fee Fund for a restroom to serve Heritage Park (\$0.35 million); Library Development Impact Fee Fund for City archives (\$0.3 million); and a County of Santa Clara grant for roof repairs (\$0.3 million). Use of Impact Fee Funds will be confirmed once the scope of the Phase I portion of the project is complete.

# CAPITAL IMPROVEMENT FUND

## Significant Changes

**2025-2029 CIP:** Appropriation increased by \$0.1 million in FY 2025 for furniture, fixtures and equipment (FF&E) and moving costs. Also, as part of the FY 2024 Mid-Year Review (Report #2311-2233), County grants awarded for the building’s windows and roof in the amount of \$0.4 million, and \$0.2 million of interest earnings on Transfer Development Rights (TDR), were programmed. Taken together, these actions increased the total project cost by \$0.7 million.

**2024-2028 CIP:** As part of the FY 2023 Mid-Year Review (Report #2212-0515), revenue of \$1.4 million was recognized for this project, \$1.0 million from a Housing and Urban Development (HUD) Grant, \$0.3 million from Santa Clara County, and \$0.1 million from the Palo Alto Museum. Overall this action increased the total project cost by \$0.8 million to \$11.8 million and freed up \$0.6 million to be used for other capital project needs.

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Capital Improvement Fund	(1,642,204)	6,909,203	6,663,229	380,926	0	0	0	0	380,926	0	5,401,951
Revenue from Other Agencies	0	2,869,415	2,869,415	0	0	0	0	0	0	0	2,869,415
Transfer from Library Development Impact Fee Fund	0	300,000	300,000	0	0	0	0	0	0	0	300,000
Transfer from Parks Dedication Fund	1,650,000	0	0	0	0	0	0	0	0	0	1,650,000
Transfer from Parks Development Impact Fee Fund	0	350,000	350,000	0	0	0	0	0	0	0	350,000
Transfer from Stanford University Medical Ctr Fund	0	2,000,000	2,000,000	0	0	0	0	0	0	0	2,000,000
<b>Total</b>	<b>\$7,796</b>	<b>\$12,428,618</b>	<b>\$12,182,644</b>	<b>\$380,926</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$380,926</b>	<b>\$0</b>	<b>\$12,571,366</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Construction	7,796	12,428,618	12,182,644	380,926	0	0	0	0	380,926	0	12,571,366
<b>Total</b>	<b>\$7,796</b>	<b>\$12,428,618</b>	<b>\$12,182,644</b>	<b>\$380,926</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$380,926</b>	<b>\$0</b>	<b>\$12,571,366</b>

## Operating Impact

This project will have ongoing operating expenses related to the new facility, and a cost sharing agreement will need to be developed between the City and the Palo Alto Museum. As these costs are quantified and the agreement finalized, adjustments will be brought forward in future budgets as necessary.

# CAPITAL IMPROVEMENT FUND

**Relationship to Comprehensive Plan  
Primary Connection**

Element: Community Services &  
Facilities  
Section: Maintenance of Parks and  
Community Facilities  
Goal: C-3  
Policy: C-3.2

**Potential Board/Commission Review:**

Historic Resources Board  
Planning and Transportation  
Commission  
Architectural Review Board

**Environmental Impact Analysis:**

This project is expected to have a possible exemption from CEQA under Section 15301.



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## CAPITAL IMPROVEMENT FUND



**Fund:** Capital Improvement Fund

**Category:** Buildings and Facilities

**Project Location:** Various

**Managing Department:** Public Works

**IBRC Reference:** N/A

**Initial Project Start:** Recurring

**Initial Project Completion:** Recurring

**Revised Project Start:** N/A

**Revised Project Completion:** N/A

**Project Number:** PF-14003

Lot N, January 2015

# University Avenue Parking Improvements

## Description

This project provides funding for improvements in the University Avenue Parking District, including parking lot resurfacing; striping and signing; parking structure painting or staining; electrical system upgrades needed to support improved lighting; and security system and/or other system upgrades.

## Justification

This project is intended to maintain the existing parking lots and garages in the University Avenue Parking District to extend the useful life of their pavement surfaces, buildings, and systems.

## Supplemental Information

This project is dependent on the availability of funding in the University Avenue Parking Permit Fund. A city-wide parking lot pavement assessment is anticipated to be conducted in 2026; parking lots in the University Avenue Parking District will be included in this assessment.

**Fiscal Year 2025:** No projects planned but funding is available for emergency repairs

**Fiscal Year 2026:** Resurface and restripe Lot N (Emerson/Ramona)

**Fiscal Year 2027:** Resurface and restripe Lot D (Hamilton/Waverley) and Lot K (Lytton/Waverley)

**Fiscal Year 2028:** Resurface and restripe Lot A (Emerson/Lytton) and Lot G (Waverley/Gilman)

**Fiscal Year 2029:** Resurface and restripe Lot P (Hight/Hamilton)

## Significant Changes

**2025-2029 CIP:** Added funding for FY 2029 for resurfacing/restriping of Lot P (High/Hamilton) Staff is coordinating pavement maintenance with potential affordable housing sites.



# CAPITAL IMPROVEMENT FUND

**2024-2028 CIP:** Added funding in FY 2028 for resurfacing/restriping of Lot A (Emerson/Lytton) and Lot G (Waverley/Gilman). Staff is coordinating pavement maintenance with potential affordable housing sites.

**2023-2027 CIP:** Parking lots were inspected in October 2021 and cost estimates were updated based on current pavement condition. Construction expenses were increased to account for cost escalation. All together, the 5-year CIP has increased by \$0.4 million to \$0.6 million.

**2022-2026 CIP:** Scheduled work reduced to maintenance of existing parking lots and garages in the University Avenue parking district and deferred beyond FY 2026 to contribute to cost containment strategies in FY 2022.

**2019-2023 CIP:** Parking Lot C resurfacing will be coordinated with the Avenidas project. With the exception of Lot C, all University Avenue parking district lots were resurfaced and no additional work is needed at this time.

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Capital Improvement Fund	N/A	156,168	752	171,116	10,735	31,175	29,916	4,298	247,240	0	N/A
Transfer from University Ave Parking Permit Fund	N/A	0	0	0	87,000	247,000	220,000	200,000	754,000	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$156,168</b>	<b>\$752</b>	<b>\$171,116</b>	<b>\$97,735</b>	<b>\$278,175</b>	<b>\$249,916</b>	<b>\$204,298</b>	<b>\$1,001,240</b>	<b>\$0</b>	<b>N/A</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Construction	N/A	156,168	752	171,116	97,735	278,175	249,916	204,298	1,001,240	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$156,168</b>	<b>\$752</b>	<b>\$171,116</b>	<b>\$97,735</b>	<b>\$278,175</b>	<b>\$249,916</b>	<b>\$204,298</b>	<b>\$1,001,240</b>	<b>\$0</b>	<b>N/A</b>

## Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

### Relationship to Comprehensive Plan Primary Connection

Element: Transportation  
Section: Parking  
Goal: T-5  
Policy: T-5.9

### Potential Board/Commission Review:

Planning and Transportation  
Commission  
Architectural Review Board

### Environmental Impact Analysis:

This project is expected to have a possible exemption from CEQA under Section 15301.



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# Department Technology Upgrades and Improvements

## CAPITAL IMPROVEMENT FUND



**Fund:** Capital Improvement Fund  
**Category:** Department Technology Upgrades and Improvements  
**Project Location:** Citywide  
**Managing Department:** Police  
**IBRC Reference:** Catch-up  
**Initial Project Start:** Winter 2024  
**Initial Project Completion:** Summer 2026  
**Revised Project Start:** N/A  
**Revised Project Completion:** N/A  
**Project Number:** PD-25000

Citywide two-way radio replacement

# City Radio Replacement Program

## Description

Two-way commercial radios are used by many Departments in the City of Palo Alto. The City operates approximately 772 radios across 9 workgroups, including include Police, Fire, Office of Emergency Services (OES), Community Services Park Rangers, Public Works, Utilities, Development Center, and Information Technology. The Police Department's Technical Services Division has been designated the lead division to manage the maintenance and replacement of all radios in the City. All radios were replaced with digital models between FY 2015 and FY 2018 when the City converted from an analog radio network to a digital radio network operated by a county authority. The Radio Infrastructure Replacement project (TE-05000) that was created to implement the transition is almost complete, pending the building of a antennae tower in the Palo Alto foothills. This new capital improvement project will be used to replace the original digital radios. Radios are categorized by portability: consoles are base radios that do not move and are affixed in buildings; mobile radios are fixed to vehicles; handheld radios are worn on the body and used in the field. Most mobile and handheld radios have a 10 year life span, depending on field conditions, whereas consoles have a longer expected life.

## Justification

Many radios are out of warranty and the current manufacturer, Motorola, is discontinuing supply of repair parts for the devices.

## Supplemental Information

As the Technical Services Division continues to evaluate options for creating a radio replacement program, it will work with other departments to determine if it is possible to reduce the use of digital radios. A comprehensive needs assessment and replacement schedule is expected before the end of FY 2024, but after the preparation and publication of the FY 2025 Proposed Capital Budget. The Police Department, and to a greater

## CAPITAL IMPROVEMENT FUND

extent the agencies operating in the Silicon Valley Regional Interoperability Authority, are seeking vendor concessions for handheld radios costing approximately \$8,000 per unit.

### Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Capital Improvement Fund</b>	0	0	0	321,499	608,882	610,409	615,703	553,647	2,710,140	0	2,710,140
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$321,499</b>	<b>\$608,882</b>	<b>\$610,409</b>	<b>\$615,703</b>	<b>\$553,647</b>	<b>\$2,710,140</b>	<b>\$0</b>	<b>\$2,710,140</b>

### Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Other</b>	0	0	0	321,499	608,882	610,409	615,703	553,647	2,710,140	0	2,710,140
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$321,499</b>	<b>\$608,882</b>	<b>\$610,409</b>	<b>\$615,703</b>	<b>\$553,647</b>	<b>\$2,710,140</b>	<b>\$0</b>	<b>\$2,710,140</b>

### Operating Impact

Operating impacts have not been determined at this time. If determined to be necessary, costs will be brought forward in future budgets. Currently, the division's operating budget has funding for the annual subscription fee to the Silicon Valley Regional Interoperability Authority, the agency managing the countywide radio network, and radio maintenance.

#### Relationship to Comprehensive Plan Primary Connection

Element: Safety  
Section: Community Safety  
Goal: S-1  
Policy: S-1.6  
Program: S1.6.2

#### Potential Board/Commission Review:

Planning and Transportation  
Commission

#### Environmental Impact Analysis:

Not Applicable

## CAPITAL IMPROVEMENT FUND



**Fund:** Capital Improvement Fund  
**Category:** Department Technology Upgrades and Improvements  
**Project Location:** Various  
**Managing Department:** Fire  
**IBRC Reference:** N/A  
**Initial Project Start:** Recurring  
**Initial Project Completion:** Recurring  
**Revised Project Start:** N/A  
**Revised Project Completion:** N/A  
**Project Number:** FD-25000

Citywide two-way radio replacement

# Fire Equipment Replacement

## Description

Ongoing replacements for Fire and Emergency Medical Services (EMS) equipment used for training, medical response, and technical rescue in all emergency situations.

## Justification

A variety of equipment is required for different types of emergency response and training, including but not limited to cardiac monitors and gurneys for medical patients, jaws of life for car accidents, breathing apparatuses to enter smoke-filled buildings, and thermal cameras to monitor fire danger. The Fire Department has completed a comprehensive assessment and listing of all current primary equipment categories, as well as estimated costs and replacement schedules. In the past, the Fire Department has requested funding for equipment through individual, one-time projects, but a recurring project will enhance the Department's ability to replace vital equipment.

## Supplemental Information

Major equipment replacements include:

**Fiscal Year 2025:** Forceable entry doors for training

**Fiscal Year 2026:** Cardiac monitors, external chest compressors, power cots/gurneys, powerloads for gurneys, air compressor extrication tools, fire vent, lifting and stabilization equipment, thermal cameras

**Fiscal Year 2027:** Fire station appliances, fire station fitness equipment

**Fiscal Year 2028:** Power cots/gurneys

**Fiscal Year 2029:** External chest compressors

# CAPITAL IMPROVEMENT FUND

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Capital Improvement Fund	N/A	0	0	96,925	1,629,922	732,392	232,284	130,085	2,821,608	0	N/A
Revenue from Other Agencies	N/A	0	0	16,480	270,695	121,280	38,080	24,160	470,695	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$0</b>	<b>\$0</b>	<b>\$113,405</b>	<b>\$1,900,617</b>	<b>\$853,672</b>	<b>\$270,364</b>	<b>\$154,245</b>	<b>\$3,292,303</b>	<b>\$0</b>	<b>N/A</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Other	N/A	0	0	113,405	1,900,618	853,672	270,364	154,245	3,292,304	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$0</b>	<b>\$0</b>	<b>\$113,405</b>	<b>\$1,900,618</b>	<b>\$853,672</b>	<b>\$270,364</b>	<b>\$154,245</b>	<b>\$3,292,304</b>	<b>\$0</b>	<b>N/A</b>

### Operating Impact

There are no impacts to the operating budget.

<p><b>Relationship to Comprehensive Plan</b>  <b>Primary Connection</b></p> <p>Element: Safety          Section: Natural Hazards          Goal: S-2          Policy: S-2.13          Program: S2.13.2</p> <p><b>Environmental Impact Analysis:</b>          NA</p>	<p><b>Potential Board/Commission Review:</b></p> <p>Planning and Transportation          Commission</p>
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**Fund:** Capital Improvement Fund

**Category:** Department Technology Upgrades and Improvements

**Project Location:** Palo Alto Police Department (275 Forest Ave)

**Managing Department:** Police

**IBRC Reference:** N/A

**Initial Project Start:** Recurring

**Initial Project Completion:** Recurring

**Revised Project Start:** N/A

**Revised Project Completion:** N/A

**Project Number:** PD-20000

### Police In-Field Audio/Video System

# Police Video Recording Systems Replacement

## Description

This project provides funding for the replacement of the Palo Alto Police Department's video recording systems used to record events in the field with in-car cameras as well as Body-Worn Cameras (BWC). The in-car camera technology was introduced in 2013 while BWCs were implemented in Fiscal Year 2019 after a one-year pilot program. In-car systems are fixed in the vehicles and include five cameras. BWCs are worn on the body and use rechargeable batteries that last up to six hours. Images captured by in-car systems and BWCs are stored both locally and in the cloud on a secure platform. In FY 2025, the Department will conduct a formal procurement to update this equipment. The update will incorporate audio/video in-holding facilities and interview rooms in the Public Safety Building so all data can be on one platform instead of multiple platforms.

## Justification

The vendor technology introduced in FY 2018, has a lifespan of approximately five years for in-car systems and four years for BWCs. Video and audio recording technology is essential for police work. The technology and corresponding policies establish a method of accountability for both police contacts and the officers and are valuable evidence in combating crime. The adoption of these technologies, along with the desire of the public for more accountability, prioritizes the need for police departments to maintain video recording systems. While video does not replace a written report, video can be helpful for reconstructing an incident for both criminal investigations and internal investigations.

## Supplemental Information

The replacement framework could include the transition to a subscription model from the current ownership model, pending the outcome of the procurement process.



# CAPITAL IMPROVEMENT FUND

## Significant Changes

**2025-2029 CIP:** The Department is continuing the procurement process to evaluate and select a technology platform to replace the current platform. Preliminary estimated costs of \$185,000 per year are reflected in the budget. Once the replacement platform is identified, costs will be updated.

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Capital Improvement Fund	N/A	144,150	12,701	203,503	207,637	208,158	209,964	188,802	1,018,064	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$144,150</b>	<b>\$12,701</b>	<b>\$203,503</b>	<b>\$207,637</b>	<b>\$208,158</b>	<b>\$209,964</b>	<b>\$188,802</b>	<b>\$1,018,064</b>	<b>\$0</b>	<b>N/A</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Other	N/A	144,150	12,701	203,503	207,637	208,158	209,964	188,802	1,018,064	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$144,150</b>	<b>\$12,701</b>	<b>\$203,503</b>	<b>\$207,637</b>	<b>\$208,158</b>	<b>\$209,964</b>	<b>\$188,802</b>	<b>\$1,018,064</b>	<b>\$0</b>	<b>N/A</b>

## Operating Impact

Operating impacts have not been determined at this time. If determined to be necessary, costs will be brought forward in future budgets.

<p><b>Relationship to Comprehensive Plan</b>  <b>Primary Connection</b></p> <p>Element: Safety          Section: Community Safety          Goal: S-1          Policy: S-1.6          Program: S1.6.2</p> <p><b>Environmental Impact Analysis:</b>          Not Applicable</p>	<p><b>Potential Board/Commission Review:</b></p> <p>Planning and Transportation          Commission</p>
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CITY OF  
**PALO  
ALTO**

## Parks and Open Space

## CAPITAL IMPROVEMENT FUND



**Fund:** Capital Improvement Fund  
**Category:** Parks and Open Space  
**Project Location:** Various  
**Managing Department:** Community Services  
**IBRC Reference:** Keep-up  
**Initial Project Start:** Recurring  
**Initial Project Completion:** Recurring  
**Revised Project Start:** N/A  
**Revised Project Completion:** N/A  
**Project Number:** AC-86017

**Brilliance, by Joe O'Connell and Blessing Hancock**

# Art In Public Spaces

## Description

This project provides funding for innovative temporary and permanent public art for both interior and exterior public spaces in accordance with the City Council-approved Art in City Capital Improvement Projects ordinance.

## Justification

This project places art in public buildings, plazas, gateways, parks, and other sites frequented by residents and visitors alike. It is expected that public art will enhance community pride and ownership in the City of Palo Alto. Public art preserves the long-term viability of the built environment and helps set a standard for aesthetic variety and creativity in the community.

## Supplemental Information

The Art in the City Capital Improvement Projects ordinance states that the City will budget one percent of its CIP budget for public art, with certain exceptions. A base level of funding in the amount of \$50,000 is included each year, and a portion of this funding pays for staff to install and replace temporary and rotating art pieces around the City.

Beginning in Fiscal Year 2015, public art funding is accounted for within this capital project to provide a clear picture of how much funding is available for public art. Funding in one project also allows for the pooling of funds for more impactful projects, and ensures that the funds are preserved for public art.

# CAPITAL IMPROVEMENT FUND

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Capital Improvement Fund	N/A	2,169,196	2,169,196	185,800	113,600	133,500	133,800	87,700	654,400	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$2,169,196</b>	<b>\$2,169,196</b>	<b>\$185,800</b>	<b>\$113,600</b>	<b>\$133,500</b>	<b>\$133,800</b>	<b>\$87,700</b>	<b>\$654,400</b>	<b>\$0</b>	<b>N/A</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Construction	N/A	2,169,195	2,169,195	185,800	113,600	133,500	133,800	87,700	654,400	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$2,169,195</b>	<b>\$2,169,195</b>	<b>\$185,800</b>	<b>\$113,600</b>	<b>\$133,500</b>	<b>\$133,800</b>	<b>\$87,700</b>	<b>\$654,400</b>	<b>\$0</b>	<b>N/A</b>

## Operating Impacts

	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total
General Fund-Operating	38,000	39,000	40,000	41,000	42,000	200,000

### Operating Impact

Annual funding for public art maintenance citywide is allocated to the Community Services Department in the General Fund, as noted in the Operating Impacts table above.

Relationship to Comprehensive Plan Primary Connection	Relationship to Comprehensive Plan Secondary Connection	Potential Board/Commission Review:
Element: Land Use and Community Design Section: Parks and Gathering Places Goal: L-8 Policy: L-8-5	Element: Land Use and Community Design Section: Commercial Centers Goal: L-4 Policy: L-4.4	Parks and Recreation Commission Planning and Transportation Commission Architectural Review Board
<b>Environmental Impact Analysis:</b> This project is expected to have a possible exemption from CEQA under Section 15301.		

## CAPITAL IMPROVEMENT FUND



**Fund:** Capital Improvement Fund  
**Category:** Parks and Open Space  
**Project Location:** Various  
**Managing Department:** Community Services  
**IBRC Reference:** Keep-up  
**Initial Project Start:** Recurring  
**Initial Project Completion:** Recurring  
**Revised Project Start:** N/A  
**Revised Project Completion:** N/A  
**Project Number:** PG-06001

Rinconada Tennis Courts, February 2015

# Athletic Courts Resurfacing

## Description

This project provides funding for repair and resurfacing of various athletic courts such as tennis, pickleball, and basketball courts and gathering bowls in Palo Alto parks.

## Justification

Athletic courts and gathering bowls in Palo Alto parks require ongoing repairs and resurfacing due to wear and tear. Resurfacing of courts will enhance the safety, quality, and condition of these athletic facilities.

## Supplemental Information

Work to be completed under this project is scheduled as follows:

**Fiscal Year 2025:** Hoover Park, Johnson Park, Ramos Park, Robles Park and Seale Park basketball courts resurfacing (continuing from prior year)

**Fiscal Year 2026:** Terman Park basketball courts reconstruction and Hopkins Park tennis courts resurfacing or reconstruction

**Fiscal Year 2027:** Terman Park and Weisshaar Park tennis courts resurfacing

**Fiscal Year 2028:** Mitchell Park tennis courts and pickleball courts resurfacing

**Fiscal Year 2029:** Rinconada Park tennis court resurfacing

## Significant Changes

**2024-2028 CIP:** New funding has been removed in FY 2025 as part of a balancing strategy to address competing infrastructure needs across the City. Funding is recommended to be reappropriated from FY 2024 into FY 2025 to continue work from FY 2024 and address emergency needs.

# CAPITAL IMPROVEMENT FUND

**2020-2024 CIP:** The project name was changed from Tennis and Basketball Court Resurfacing to broaden the scope of the project and include more types of athletic courts such as tennis, basketball, pickleball, and gathering bowls in Palo Alto parks.

**2017-2021 CIP:** Tennis courts at Cubberley Community Center have been removed from this project and now are covered in a separate project within the Cubberley Infrastructure Fund.

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Capital Improvement Fund	N/A	525,348	322,703	223,116	253,775	260,720	269,568	248,426	1,255,605	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$525,348</b>	<b>\$322,703</b>	<b>\$223,116</b>	<b>\$253,775</b>	<b>\$260,720</b>	<b>\$269,568</b>	<b>\$248,426</b>	<b>\$1,255,605</b>	<b>\$0</b>	<b>N/A</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Construction	N/A	525,348	322,703	223,116	253,775	260,720	269,568	248,426	1,255,605	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$525,348</b>	<b>\$322,703</b>	<b>\$223,116</b>	<b>\$253,775</b>	<b>\$260,720</b>	<b>\$269,568</b>	<b>\$248,426</b>	<b>\$1,255,605</b>	<b>\$0</b>	<b>N/A</b>

## Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

Relationship to Comprehensive Plan Primary Connection	Relationship to Comprehensive Plan Secondary Connection	Potential Board/Commission Review:
Element: Community Services & Facilities Section: Maintenance of Parks and Community Facilities Goal: C-3 Policy: C-3.2 Program: C3.2.1	Element: Community Services & Facilities Section: Maintenance of Parks and Community Facilities Goal: C-3 Policy: C-3.3 Program: C3.3.1	Parks and Recreation Commission Planning and Transportation Commission
<b>Environmental Impact Analysis:</b> This project is expected to have a possible exemption from CEQA under Section 15301.		

## CAPITAL IMPROVEMENT FUND



Baylands, July 2014

**Fund:** Capital Improvement Fund  
**Category:** Parks and Open Space  
**Project Location:** Baylands Nature Preserve (2500 Embarcadero Road)  
**Managing Department:** Community Services  
**IBRC Reference:** Catch-up  
**Initial Project Start:** Fall 2016  
**Initial Project Completion:** Winter 2018  
**Revised Project Start:** N/A  
**Revised Project Completion:** Summer 2025  
**Project Number:** PG-17000

# Baylands Comprehensive Conservation Plan

## Description

This project provides funding for a conservation plan that will examine the native vegetation, wildlife habitat resources, and wildlife-appropriate public access for the entire Baylands, including Byxbee Park. This plan will provide needed information on best areas to maintain wildlife habitat and appropriate areas to develop trails or other recreation amenities; provide a design overlay for appropriate types and locations of public art in the Baylands; and design an interpretive messaging throughout the Baylands. The plan seeks to optimize opportunities for low impact recreation ensuring that these are compatible with the Baylands Master Plan direction for a passive park and nature preserve. The Conservation Plan will also provide input to the Byxbee Park Completion project.

## Justification

Staff needs a guiding plan to provide insight on best management practices for wildlife, habitat, vegetation, and recreation management. The plan will also provide priorities, which will help staff and volunteers guide resources to the most important projects. With numerous changes taking place in environmentally significant areas, it is vital to have a holistic vision for the corridor that will balance the diverse needs of stakeholders.

## Supplemental Information

A prior project to create a Baylands Comprehensive Conservation Plan was initiated in June 2006 but due to funding cuts the project was not completed. This project will involve hiring a consultant to complete the plan.

## Significant Changes

**2025-2029 CIP:** Project extended and funds re-appropriated to consider additional recommendation from stakeholders that may require additional funding.



# CAPITAL IMPROVEMENT FUND

**2024-2028 CIP:** Project extended and funds re-appropriated to consider additional recommendation from stakeholders that may require additional funding.

**2023-2027 CIP:** Project extended and funds re-appropriated to consider additional recommendation from stakeholders that may require additional funding.

**2021-2025 CIP:** CEQA work has been extended to FY 2021.

**2019-2023 CIP:** Additional funding of \$90,000 added for CEQA. Completion date revised to FY 2019.

**2017-2021 CIP:** Additional funding of \$60,000 was added to include design for interpretive messaging and design overlay for appropriate types and locations of public art.

**2016-2020 CIP:** Project established.

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Capital Improvement Fund	386,399	47,661	4,561	47,454	0	0	0	0	47,454	0	438,414
<b>Total</b>	<b>\$386,399</b>	<b>\$47,661</b>	<b>\$4,561</b>	<b>\$47,454</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$47,454</b>	<b>\$0</b>	<b>\$438,414</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Design	386,398	47,661	4,561	47,454	0	0	0	0	47,454	0	438,413
<b>Total</b>	<b>\$386,398</b>	<b>\$47,661</b>	<b>\$4,561</b>	<b>\$47,454</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$47,454</b>	<b>\$0</b>	<b>\$438,413</b>

## Operating Impact

This project is anticipated to impact operating expenses in the future. As these costs are quantified, adjustments will be brought forward in future budgets, as necessary.

<p><b>Relationship to Comprehensive Plan</b>  <b>Primary Connection</b></p> <p>Element: Natural Environment          Section: Open Space          Goal: N-3          Policy: N-3.4</p> <p><b>Environmental Impact Analysis:</b>          This project may be subject to CEQA review.</p>	<p><b>Potential Board/Commission Review:</b></p> <p>Parks and Recreation Commission          Planning and Transportation Commission          Architectural Review Board</p>
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# CAPITAL IMPROVEMENT FUND



**Fund:** Capital Improvement Fund  
**Category:** Parks and Open Space  
**Project Location:** Palo Alto Baylands Nature Preserve  
**Managing Department:** Community Services  
**IBRC Reference:** New  
**Initial Project Start:** Fall 2024  
**Initial Project Completion:** Summer 2025  
**Revised Project Start:** N/A  
**Revised Project Completion:** N/A  
**Project Number:** OS-24001

Friendship Trail, Baylands Nature Preserve, Spring 2021

## Baylands Interpretive Signage Program

### Description

This project will install signage and exhibits at the Palo Alto Baylands Nature Preserve.

### Justification

The California Department of Parks and Recreation awarded the City of Palo Alto an Outdoor Environmental Education Facilities grant for \$162,000 to improve educational opportunities for visitors to the Baylands, specifically for the fabrication and installation of interpretive exhibits.

### Significant Changes

**2024-2028 CIP:** Project established.

### Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Capital Improvement Fund	0	0	0	16,366	0	0	0	0	16,366	0	16,366
Revenue from the State of California	0	162,000	0	162,000	0	0	0	0	162,000	0	162,000
<b>Total</b>	<b>\$0</b>	<b>\$162,000</b>	<b>\$0</b>	<b>\$178,366</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$178,366</b>	<b>\$0</b>	<b>\$178,366</b>

# CAPITAL IMPROVEMENT FUND

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Construction</b>	0	162,000	0	178,366	0	0	0	0	178,366	0	178,366
<b>Total</b>	<b>\$0</b>	<b>\$162,000</b>	<b>\$0</b>	<b>\$178,366</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$178,366</b>	<b>\$0</b>	<b>\$178,366</b>

### Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

#### Relationship to Comprehensive Plan Primary Connection

Element: Land Use and Community Design  
Goal: C-1

#### Potential Board/Commission Review:

Parks and Recreation Commission  
Planning and Transportation Commission

#### Environmental Impact Analysis:

The recommendations in this report are not subject to the provisions of the California Environmental Quality Act as these actions do not meet the definition of a 'project' as defined in Public Resource Code Division 13, Section 21065. However, in an abundance of caution, the Baylands signage project was filed under CEQA as categorically exempt on May 31, 2018.

## CAPITAL IMPROVEMENT FUND



**Fund:** Capital Improvement Fund  
**Category:** Parks and Open Space  
**Project Location:** Harbor Road near Baylands Nature Interpretive Center (2775 Embarcadero Road)  
**Managing Department:** Community Services  
**IBRC Reference:** New  
**Initial Project Start:** Spring 2012  
**Initial Project Completion:** Summer 2014  
**Revised Project Start:** Summer 2026  
**Revised Project Completion:** Summer 2028  
**Project Number:** OS-09002

Baylands Levee, January 2015

# Baylands Levee Repair for Public Safety Access

## Description

This project provides funding to restore the width and height of the earthen flood levee between Harbor Road near the Baylands Interpretive Center and the perimeter levee of the airport to six inches above its original height.

## Justification

This section of City-maintained levee has significantly subsided since it was built in the early 1960s. High winter tides now overflow the top of the levee, causing significant erosion along both edges of the levee. This levee is important not only for flood control of the Baylands, but also for emergency response by fire and paramedic vehicles for fires, plane crashes and rescue of injured trail users. The section of levee between the road and the Nature Center is essential for public access.

## Supplemental Information

Information from the Bay Conservation and Development Commission on sea level rise projections will be incorporated into the design of the restoration of the levee in order for the structure to function against increasing tide levels. This project is pending a cost estimate update as regulatory agencies have informed staff this project will require mitigation.

## Significant Changes

**2023-2027 CIP:** Project funding has been pushed out to FY 2026 and is pending an updated cost estimate.

**2020-2024 CIP:** Project funding has been pushed out to FY 2024 and is pending an updated cost estimate.

**2019-2023 CIP:** Project funding has been pushed out to FY 2021 and is pending an updated cost estimate.

**2018-2022 CIP:** Securing the regulatory permits remain delayed and now may require mitigation.

# CAPITAL IMPROVEMENT FUND

**2016-2020 CIP:** Project completion has been extended by 2 1/2 years due to delays in securing the regulatory permits needed to construct the project.

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Capital Improvement Fund	54,298	0	0	0	323,538	0	0	0	323,538	0	377,836
<b>Total</b>	<b>\$54,298</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$323,538</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$323,538</b>	<b>\$0</b>	<b>\$377,836</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Construction	54,298	0	0	0	0	0	0	0	0	0	54,298
Design	0	0	0	0	323,538	0	0	0	323,538	0	323,538
<b>Total</b>	<b>\$54,298</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$323,538</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$323,538</b>	<b>\$0</b>	<b>\$377,836</b>

### Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

<p><b>Relationship to Comprehensive Plan Primary Connection</b></p> <p>Element: Natural Environment          Section: Open Space          Goal: N-1          Policy: N-1.5          Program: N1.5.1</p>	<p><b>Potential Board/Commission Review:</b></p> <p>Planning and Transportation Commission          San Francisquito Creek Joint Powers Authority</p>
<p><b>Environmental Impact Analysis:</b>          This project is expected to have a possible exemption from CEQA under Section 15301.</p>	

# CAPITAL IMPROVEMENT FUND



**Fund:** Capital Improvement Fund  
**Category:** Parks and Open Space  
**Project Location:** Baylands Preserve  
**Managing Department:** Community Services  
**IBRC Reference:** New  
**Initial Project Start:** Fall 2023  
**Initial Project Completion:** Winter 2023  
**Revised Project Start:** Winter 2024  
**Revised Project Completion:** Summer 2024  
**Project Number:** OS-24000

Baylands Nature Preserve Entrance

## Baylands Nature Preserve Entrance Gate

### Description

This project provides funding to install a new automated gate at the Baylands Nature Preserve main entrance. The gate is closed when the preserve closes in the evenings. The scope of work includes an electrical transformer, trenching, wiring, and gate automation equipment. The existing gate is manually opened and closed.

### Justification

In the past, the gate was closed in the evening by a contractor (California Land Management) as part of their contract with the City for picking up litter and closing the Baylands Nature Preserve in the evenings. The contract was eliminated in July 2020 as part of a budget reduction associated with the COVID-19 pandemic. Currently the gate is closed manually by City staff, when they are available; however, when staff are not available, the preserve gate is left open, which has resulted in increased vandalism and graffiti.

### Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Capital Improvement Fund	0	132,701	12,701	132,122	0	0	0	0	132,122	0	144,823
<b>Total</b>	<b>\$0</b>	<b>\$132,701</b>	<b>\$12,701</b>	<b>\$132,122</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$132,122</b>	<b>\$0</b>	<b>\$144,823</b>

# CAPITAL IMPROVEMENT FUND

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Construction</b>	0	121,643	11,643	121,112	0	0	0	0	121,112	0	132,755
<b>Design</b>	0	11,058	1,058	11,010	0	0	0	0	11,010	0	12,068
<b>Total</b>	<b>\$0</b>	<b>\$132,701</b>	<b>\$12,701</b>	<b>\$132,122</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$132,122</b>	<b>\$0</b>	<b>\$144,823</b>

### Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

<p><b>Relationship to Comprehensive Plan</b>  <b>Primary Connection</b></p> <p>Element: Community Services &amp; Facilities          Section: Maintenance of Parks and Community Facilities          Goal: C-3          Policy: C-3.3</p> <p><b>Environmental Impact Analysis:</b>          Possible exemption from CEQA under Section 15302</p>	<p><b>Potential Board/Commission Review:</b></p> <p>Parks and Recreation Commission          Planning and Transportation Commission          Architectural Review Board</p>
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# CAPITAL IMPROVEMENT FUND



**Fund:** Capital Improvement Fund  
**Category:** Parks and Open Space  
**Project Location:** Various  
**Managing Department:** Community Services  
**IBRC Reference:** Keep-up  
**Initial Project Start:** Recurring  
**Initial Project Completion:** Recurring  
**Revised Project Start:** N/A  
**Revised Project Completion:** N/A  
**Project Number:** PG-06003

Greer Park, January 2015

## Benches, Signage, Walkways, Perimeter Landscaping, and Site Amenities

### Description

This project provides funding for the restoration and replacement of existing benches, signage, fencing, walkways, and landscaping at various City facilities.

### Justification

Benches, signage, fencing, walkways, and perimeter landscaping at various sites are due for replacement or upgrade based on their age and/or condition.

### Supplemental Information

Replacements will be evaluated and recommended by the Community Services Department on a per park basis with actual work dependent upon bid results.

### Significant Changes

**2022-2026 CIP:** This project was reduced by approximately \$40,000 in FY 2022 to contribute to cost containment strategies in FY 2022.

**2020-2024 CIP:** Ongoing project budget increased by \$25,000 annually, reaching approximately \$0.2 million.

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Capital Improvement Fund	N/A	611,474	611,473	197,523	206,592	212,292	219,471	202,255	1,038,133	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$611,474</b>	<b>\$611,473</b>	<b>\$197,523</b>	<b>\$206,592</b>	<b>\$212,292</b>	<b>\$219,471</b>	<b>\$202,255</b>	<b>\$1,038,133</b>	<b>\$0</b>	<b>N/A</b>



## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Construction</b>	N/A	611,474	611,473	197,523	206,592	212,292	219,471	202,255	1,038,133	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$611,474</b>	<b>\$611,473</b>	<b>\$197,523</b>	<b>\$206,592</b>	<b>\$212,292</b>	<b>\$219,471</b>	<b>\$202,255</b>	<b>\$1,038,133</b>	<b>\$0</b>	<b>N/A</b>

### Operating Impact

This project is not anticipated to impact operating expenses and if any maintenance costs increase, costs will be absorbed with the available maintenance funding in the annual operating budget.

Relationship to Comprehensive Plan Primary Connection	Relationship to Comprehensive Plan Secondary Connection	Potential Board/Commission Review:
Element: Community Services & Facilities Section: Maintenance of Parks and Community Facilities Goal: C-3 Policy: C-3.2 Program: C3.2.1	Element: Community Services & Facilities Section: Maintenance of Parks and Community Facilities Goal: C-3 Policy: C-3.3 Program: C3.3.1	Parks and Recreation Commission Planning and Transportation Commission
<b>Environmental Impact Analysis:</b> This project is expected to have a possible exemption from CEQA under Section 15301.		

## CAPITAL IMPROVEMENT FUND



Bol Park, February 2015

**Fund:** Capital Improvement Fund  
**Category:** Parks and Open Space  
**Project Location:** 3590 Laguna Avenue  
**Managing Department:** Public Works  
**IBRC Reference:** Catch-up  
**Initial Project Start:** Summer 2019  
**Initial Project Completion:** Summer 2020  
**Revised Project Start:** Summer 2027  
**Revised Project Completion:** Summer 2029  
**Project Number:** PE-16000

# Bol Park Improvements

## Description

This project provides funding for safety renovations and accessibility improvements, including repairs to the decomposed granite pathways, park lighting, and replacement of the playground equipment. Irrigation renovations and turf restoration are also included in this project, as well as the replacement of site amenities.

## Justification

The decomposed granite pathway needs regrading and resurfacing. The children's playground equipment has reached its life expectancy and will need replacement. Park lighting and other site amenities including benches, tables and trash receptacles are very old and need to be replaced.

## Significant Changes

**2025-2029 CIP:** Park improvements have been deferred from FY 2027 to FY 2028 due to staffing constraints. Funding for design and construction has been increased by \$0.2 million due to construction cost escalation for a total project cost of \$1.0 million.

**2024-2028 CIP:** Funding for design and construction has been increased by \$0.1 million for a total project cost of \$0.9 million due to construction cost escalation and inclusion of the green infrastructure components.

**2023-2027 CIP:** Park improvements have been deferred from FY 2024 to FY 2027 due to staffing constraints. Design and Construction expenses were increased to account for cost escalation.

**2021-2025 CIP:** Playground replacement added to the scope of the project, as it will reach its 20-year life expectancy in 2024.

# CAPITAL IMPROVEMENT FUND

**2020-2024 CIP:** Project moved from FY 2020 to FY 2024 due to some interim improvements that were made, prolonging the remaining park structures to last until FY 2024. This allows for work at other projects with more immediate needs.

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Capital Improvement Fund	0	0	0	0	0	1	102,238	868,267	970,506	0	970,506
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1</b>	<b>\$102,238</b>	<b>\$868,267</b>	<b>\$970,506</b>	<b>\$0</b>	<b>\$970,506</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Construction	0	0	0	0	0	0	102,238	868,267	970,505	0	970,505
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$102,238</b>	<b>\$868,267</b>	<b>\$970,505</b>	<b>\$0</b>	<b>\$970,505</b>

### Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget. Cost for operations and maintenance of the green infrastructure feature is to be determined.

<p><b>Relationship to Comprehensive Plan</b>  <b>Primary Connection</b></p> <p>Element: Community Services &amp; Facilities          Section: Maintenance of Parks and Community Facilities          Goal: C-3          Policy: C-3.3</p> <p><b>Environmental Impact Analysis:</b>          This project is expected to have a possible exemption from CEQA under Section 15301.</p>	<p><b>Potential Board/Commission Review:</b></p> <p>Parks and Recreation Commission          Planning and Transportation Commission</p>
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## CAPITAL IMPROVEMENT FUND



**Fund:** Capital Improvement Fund  
**Category:** Parks and Open Space  
**Project Location:** 3590 Laguna Avenue

**Managing Department:** Public Works  
**IBRC Reference:** New

**Initial Project Start:** Summer 2024  
**Initial Project Completion:** Summer 2026

**Revised Project Start:** Summer 2027  
**Revised Project Completion:** Summer 2029

**Project Number:** PE-25000

**Bol Park Bike Path, April 2022**

# Bol Park Pathway Repaving and Repair

## Description

The Bol Park pathway which extends from the north at Hanover Drive at the Stanford Technological Park to the south at Arastadero Road is approximately 1.2 miles in length. The pathway is a key link in the local and regional bike system and is heavily utilized by both Gunn High School and the Veterans facility. Funding for this project includes repaving and widening of the pathway and lighting improvements.

## Justification

The Bol Park Pathway is a heavily used path for local and regional connections. The pathway currently is in need of repaving. Sections of the pathway have decreased in width due to path deterioration and pathway signage needs updating. The overall layout of the path needs further review to eliminate a current blind spot due to a change in pathway elevation.

## Supplemental Information

The Barron Park community has formed the Bol Park Pathway Committee to work with the City to improve the pathway and the City has performed a user survey that supports the findings of a larger user group of the pathway.

## Significant Changes

**2025-2029 CIP:** Project start has shifted to FY 2028 due to staffing constraints. Funding increased for design and construction by \$0.3 million due to cost escalation for a total project cost of \$1.7 million.

**2024-2028 CIP:** Funding increased for design and construction by \$0.1 million for a total project cost of \$1.5 million for escalation and inclusion of green infrastructure components.

# CAPITAL IMPROVEMENT FUND

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Capital Improvement Fund	0	0	0	0	0	0	340,795	1,327,937	1,668,732	0	1,668,732
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$340,795</b>	<b>\$1,327,937</b>	<b>\$1,668,732</b>	<b>\$0</b>	<b>\$1,668,732</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Construction	0	0	0	0	0	0	340,795	1,327,937	1,668,732	0	1,668,732
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$340,795</b>	<b>\$1,327,937</b>	<b>\$1,668,732</b>	<b>\$0</b>	<b>\$1,668,732</b>

### Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget. Cost for operations and maintenance of the green infrastructure feature to be determined .

#### Relationship to Comprehensive Plan Primary Connection

Element: Community Services & Facilities  
Section: Maintenance of Parks and Community Facilities  
Goal: C-3  
Policy: C-3.3

#### Potential Board/Commission Review:

Parks and Recreation Commission  
Planning and Transportation Commission

#### Environmental Impact Analysis:

This project is expected to have a possible exemption from CEQA under Section 15301.

## CAPITAL IMPROVEMENT FUND



Boulware Park, February 2015

**Fund:** Capital Improvement Fund  
**Category:** Parks and Open Space  
**Project Location:** 410 Fernando Avenue/3350 Birch Street  
**Managing Department:** Public Works  
**IBRC Reference:** Catch-up  
**Initial Project Start:** Fall 2017  
**Initial Project Completion:** Fall 2018  
**Revised Project Start:** Spring 2020  
**Revised Project Completion:** Fall 2024  
**Project Number:** PE-17005

# Boulware Park Improvements

## Description

This project provides funding for improvements to the existing Boulware Park, conversion of the Birch Street property purchased by the City in FY 2019 into a park facility, and connecting the existing park to the Birch Street property by removing Ash Street and reconfiguring Chestnut Avenue. The park improvements include development of the existing Boulware Park and Birch Street property; installation of a new play structure; replacement of existing lighting, drinking fountains, benches, trash receptacles, and rubberized surfacing; accessibility upgrades; addition of a new restroom; new park facilities; and streets improvements.

## Justification

The existing playground equipment, installed in 1993, is approaching the end of its useful life and needs to be replaced. In addition, light poles and site amenities, including drinking fountains, benches and trash/recycle receptacles are aged and need replacing. The City purchased an undeveloped lot from Pacific Bell Telephone Company in FY 2019, located at 3350 Birch Street (previously PE-19003), across a public street from Boulware Park, to use as additional parkland in the Ventura neighborhood. This neighborhood is a densely populated area of the City with minimal parkland. Additionally, the Parks Master Plan, adopted in 2017, included a goal to add more open space in the Ventura Neighborhood.

## Supplemental Information

The City conducted a community-based review process to develop a cohesive design to determine what new amenities will be added in the final design of the park. The project was determined to be CEQA exempt and a notice of determination has been filed.

## Significant Changes

**2024-2028 CIP:** Project completion extended from Summer 2023 to Fall 2024.

## CAPITAL IMPROVEMENT FUND

**2023-2027 CIP:** Project completion extended from Summer 2022 to Summer 2023 due to staffing constraints and prioritization of other projects.

**2022-2026 CIP:** Funding for Birch Street Improvements (PE-19003) was consolidated into the Boulware Park Improvements project (PE-17005) to develop both properties as one park facility. Additional funding is requested to include additional design features and streets improvements based on community input and design development.

**2021-2025 CIP:** Depending on the funding and timeline for Birch Street Improvements (PE-19003), work to update the playground equipment may be coordinated, as the two properties are adjacent to each other.

**2019-2023 CIP:** Project construction funding moved to FY 2020 to address workload plus project priorities.

**2018-2022 CIP:** Project shifted back to FY 2018 following consideration of staff workload and park priorities.

**2017-2021 CIP:** Project shifted from FY 2018 to FY 2021 pending completion of the Parks Master Plan and a reprioritization of parks projects.

### Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Capital Improvement Fund</b>	(2,321,289)	4,756,038	4,620,274	149,479	0	0	0	0	149,479	0	2,448,464
<b>Revenue from the State of California</b>	0	188,979	188,979	0	0	0	0	0	0	0	188,979
<b>Transfer from Parks Development Impact Fee Fund</b>	3,030,000	0	0	0	0	0	0	0	0	0	3,030,000
<b>Transfer from Stormwater Management Fund</b>	114,950	0	0	0	0	0	0	0	0	0	114,950
<b>Total</b>	<b>\$823,661</b>	<b>\$4,945,017</b>	<b>\$4,809,253</b>	<b>\$149,479</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$149,479</b>	<b>\$0</b>	<b>\$5,782,393</b>

### Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Construction</b>	28,184	4,943,367	4,807,603	149,479	0	0	0	0	149,479	0	4,985,266
<b>Design</b>	795,467	1,650	1,650	0	0	0	0	0	0	0	797,117
<b>Total</b>	<b>\$823,651</b>	<b>\$4,945,017</b>	<b>\$4,809,253</b>	<b>\$149,479</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$149,479</b>	<b>\$0</b>	<b>\$5,782,383</b>

### Operating Impacts

	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total
<b>Capital Improvement Fund</b>	46,000	48,000	49,000	50,000	52,000	245,000



# CAPITAL IMPROVEMENT FUND

## Operating Impact

The maintenance cost of this project will be approximately \$46,000 annually, starting in FY 2025, for landscaping and custodial expenses and budgeted to increase by 3% annually thereafter.

**Relationship to Comprehensive Plan  
Primary Connection**

Element: Community Services &  
Facilities  
Section: Maintenance of Parks and  
Community Facilities  
Goal: C-3  
Policy: C-3.3

**Potential Board/Commission Review:**

Parks and Recreation Commission  
Planning and Transportation  
Commission

**Environmental Impact Analysis:**

This project is expected to have a possible exemption from CEQA under Section 15302.





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## CAPITAL IMPROVEMENT FUND



Byxbee Park, March 2015

**Fund:** Capital Improvement Fund  
**Category:** Parks and Open Space  
**Project Location:** 2500 Embarcadero Road  
**Managing Department:** Public Works  
**IBRC Reference:** New  
**Initial Project Start:** Summer 2017  
**Initial Project Completion:** Fall 2019  
**Revised Project Start:** Fall 2024  
**Revised Project Completion:** Summer 2026  
**Project Number:** PE-18006

# Byxbee Park Completion

## Description

This project provides funding for the remaining improvements to Byxbee Park per the conceptual plan currently being developed in the Baylands Comprehensive Conservation Plan (PG-17000). The conceptual plan calls for additional native planting islands, park seating, interpretive signage, and an expanded parking lot.

## Justification

While some improvements and amenities have already been provided through the Byxbee Park Trails Project, this project will revisit the vision for the entire park, and implement the plan for the final park. Design of the project will incorporate recommendations from the Baylands Comprehensive Conservation Plan Project.

## Supplemental Information

The Byxbee Park Completion Project is included in the Council Infrastructure Plan. Funds for the project are provided by the Parks Development Impact Fee Fund. The Parks, Trails, Natural Open Space and Recreational Master Plan projects were reviewed and adjusted according to staff availability as well as community and Infrastructure Blue Ribbon Committee (IBRC) needs.

## Significant Changes

**2024-2028 CIP:** Project design moved to FY 2025 and construction moved to FY 2026 due to staffing constraints.

**2023-2027 CIP:** Project moved to FY 2024 due to staffing constraints. Design funding of approximately \$0.5 million added in FY 2024 and offset by additional Parks Dedication funding.

**2022-2026 CIP:** Project moved to FY 2022 due to staffing constraints.

# CAPITAL IMPROVEMENT FUND

**2020-2024 CIP:** A majority of the funding, including the transfer from the Parks Dedication Fund, has been moved to FY 2021 to coordinate with the Baylands Comprehensive Conservation Plan and the Byxbee Park Master Plan.

**2019-2023 CIP:** Budget increased to reflect total project cost estimate of \$3.6 million.

**2018-2022 CIP:** Funding has been moved to FY 2019 to coordinate with the findings from the Baylands Comprehensive Conservation Plan project.

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Capital Improvement Fund</b>	(1,331,808)	0	0	0	1,781,000	0	0	0	1,781,000	0	449,192
<b>Transfer from Parks Dedication Fund</b>	1,700,000	0	0	450,000	1,100,000	0	0	0	1,550,000	0	3,250,000
<b>Total</b>	<b>\$368,192</b>	<b>\$0</b>	<b>\$0</b>	<b>\$450,000</b>	<b>\$2,881,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$3,331,000</b>	<b>\$0</b>	<b>\$3,699,192</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Construction</b>	368,189	0	0	0	2,881,000	0	0	0	2,881,000	0	3,249,189
<b>Design</b>	0	0	0	450,000	0	0	0	0	450,000	0	450,000
<b>Total</b>	<b>\$368,189</b>	<b>\$0</b>	<b>\$0</b>	<b>\$450,000</b>	<b>\$2,881,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$3,331,000</b>	<b>\$0</b>	<b>\$3,699,189</b>

## Operating Impact

This project is anticipated to impact operating expenses in the future. Byxbee Park is maintained under the City's parks maintenance contract. As these costs are quantified, adjustments will be brought forward in future budget cycles.

<p><b>Relationship to Comprehensive Plan</b>  <b>Primary Connection</b></p> <p>Element: Community Services &amp; Facilities                  Section: Maintenance of Parks and Community Facilities                  Goal: C-3                  Policy: C-3.3</p> <p><b>Environmental Impact Analysis:</b>                  This project is anticipated to require an environmental assessment in accordance with CEQA guidelines.</p>	<p><b>Potential Board/Commission Review:</b></p> <p>Parks and Recreation Commission                  Planning and Transportation Commission                  Architectural Review Board</p>
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## CAPITAL IMPROVEMENT FUND



Mitchell Park Dog Run, March 2017

**Fund:** Capital Improvement Fund  
**Category:** Parks and Open Space  
**Project Location:** Various  
**Managing Department:** Community Services  
**IBRC Reference:** New  
**Initial Project Start:** Recurring  
**Initial Project Completion:** Recurring  
**Revised Project Start:** N/A  
**Revised Project Completion:** N/A  
**Project Number:** PG-18001

# Dog Park Installation and Renovation

## Description

This project provides funding for building dog parks at various City parks and facilities that currently do not have dog parks, as well as renovating existing dog parks.

## Justification

The Parks, Trails, Natural Open Space, and Recreation Master Plan provides guidance on dog parks. The policy states that Palo Alto should actively pursue adding dedicated, fenced dog parks in multiple neighborhoods, equitably distributed between North and South Palo Alto. The size of the dog parks will vary, but should strive to be at least 0.25 acres and each new dog park installation will require a Park Improvement Ordinance.

When this project was established, Palo Alto had three dog parks at Mitchell Park, Hoover Park, and Greer Park. These dog parks were undersized and located only in the south side of the City. Funding from this project expanded the dog parks and provided a fourth dog park to serve the north side of the City, at Peers Park. Continued funding from this project allows additional dog parks to be built throughout Palo Alto.

## Significant Changes

**2025-2029 CIP:** Future estimated Parks Development Fee Funding has been programmed to offset future costs for this project. If fee revenue does not come in as estimated, the work in this project will need to be pushed out until funds are available.

**2024-2028 CIP:** Parks Development Impact Fee Funding was previously programmed to fund costs in this project and the Park Restroom Installation project (PG-19000); however, fee funds collected through FY 2023 were reallocated to the Boulware Park Improvements project (PE-17005). Future fee funds may be allocated to this project to free up Capital Improvement funding for other project needs.

# CAPITAL IMPROVEMENT FUND

**2023-2027 CIP:** FY 2022 funding has been deferred to FY 2023 due to staffing constraints, but future installations will remain in the even fiscal years.

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Capital Improvement Fund	N/A	31,171	31,171	0	18,508	0	20,397	0	38,905	0	N/A
Transfer from Parks Development Impact Fee Fund	N/A	294,500	294,500	0	150,000	0	150,000	0	300,000	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$325,671</b>	<b>\$325,671</b>	<b>\$0</b>	<b>\$168,508</b>	<b>\$0</b>	<b>\$170,397</b>	<b>\$0</b>	<b>\$338,905</b>	<b>\$0</b>	<b>N/A</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Construction	N/A	309,637	309,636	0	157,275	0	159,037	0	316,312	0	N/A
Design	N/A	16,034	16,034	0	11,233	0	11,359	0	22,592	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$325,671</b>	<b>\$325,670</b>	<b>\$0</b>	<b>\$168,508</b>	<b>\$0</b>	<b>\$170,396</b>	<b>\$0</b>	<b>\$338,904</b>	<b>\$0</b>	<b>N/A</b>

## Operating Impacts

	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total
General Fund-Operating	4,300	6,600	6,800	9,000	9,300	36,000

### Operating Impact

Custodial costs are approximately \$2,000 per year per dog park in the operating budget for existing dog parks. Operating funding for maintenance will be increased as part of the annual budget process as more dog parks are installed.

Relationship to Comprehensive Plan Primary Connection	Relationship to Comprehensive Plan Secondary Connection	Potential Board/Commission Review:
Element: Community Services & Facilities Section: Maintenance of Parks and Community Facilities Goal: C-3 Policy: C-3.3 Program: C3.3.1	Element: Community Services & Facilities Section: Maintenance of Parks and Community Facilities Goal: C-3 Policy: C-3.2 Program: C3.2.1	Parks and Recreation Commission Planning and Transportation Commission
<b>Environmental Impact Analysis:</b> This project is expected to have possible exemption from CEQA under Section 15301		

# CAPITAL IMPROVEMENT FUND



**Fund:** Capital Improvement Fund  
**Category:** Parks and Open Space  
**Project Location:** Foothills Nature Preserve, Pearson Arastradero Preserve, Esther Clark Park  
**Managing Department:** Community Services  
**IBRC Reference:** New  
**Initial Project Start:** Fall 2024  
**Initial Project Completion:** Fall 2025  
**Revised Project Start:** N/A  
**Revised Project Completion:** N/A  
**Project Number:** PG-25002

Eucalyptus Trees in Open Space, July 2023

## Eucalyptus Tree Removal

### Description

This project will remove approximately 30 of 110 identified eucalyptus trees from the City of Palo Alto's open space preserves, including Foothills Nature Preserve, Pearson Arastradero Preserve, and Esther Clark Park.

### Justification

The removal of the invasive trees will help improve wildland fire safety. It will also improve the surrounding habitat by allowing native trees and vegetation to thrive in the absence of the eucalyptus trees.

### Supplemental Information

Funding is programmed in FY 2025. The City is actively seeking additional funds for continued work on this project. If grant revenue is awarded, appropriation will be programmed beyond FY 2025.

### Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Capital Improvement Fund	0	0	0	110,102	0	0	0	0	110,102	0	110,102
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$110,102</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$110,102</b>	<b>\$0</b>	<b>\$110,102</b>

# CAPITAL IMPROVEMENT FUND

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Construction</b>	0	0	0	110,102	0	0	0	0	110,102	0	110,102
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$110,102</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$110,102</b>	<b>\$0</b>	<b>\$110,102</b>

### Operating Impact

This project is not anticipated to have operating impacts other than staff time to manage the project.

#### Relationship to Comprehensive Plan Primary Connection

Element: Safety  
Goal: S-2  
Policy: S-2.14  
Program: S2.14.2

#### Potential Board/Commission Review:

Parks and Recreation Commission  
Planning and Transportation  
Commission

#### Environmental Impact Analysis:

This project is expected to have a possible exemption from CEQA under Section 15301.

# CAPITAL IMPROVEMENT FUND



**Fund:** Capital Improvement Fund  
**Category:** Parks and Open Space  
**Project Location:** Foothills Nature Preserve Boronda Lake (3300 Page Mill Road between Central and Moody)  
**Managing Department:** Community Services  
**IBRC Reference:** Keep-up  
**Initial Project Start:** Fall 2017  
**Initial Project Completion:** Spring 2018  
**Revised Project Start:** Fall 2023  
**Revised Project Completion:** Fall 2024  
**Project Number:** OS-18000

Boronda Lake Dock, February 2017

## Foothills Nature Preserve Boronda Lake Dock Replacement

### Description

This project provides funding for the replacement of an aged and deteriorating Boronda Lake Dock.

### Justification

The dock was originally built in 1965 and was last refurbished in 2010 with repairs to the wood decking. The current condition of the dock is declining and now requires a complete replacement of the dock with new decking, ramp, floats, and pilings.

### Significant Changes

**2024-2028 CIP:** Project moved to FY 2024 due to staffing constraints and other high priority projects.

**2023-2027 CIP:** Project moved to FY 2023 due to staffing constraints and other high priority projects.

**2022-2026 CIP:** Project construction anticipated to start upon issuance of contract in the summer of calendar year 2021.

**2021-2025 CIP:** Project funding increased due to escalation of repair/construction costs.

**2019-2023 CIP:** Project funding has been pushed out to FY 2021.

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Capital Improvement Fund	0	232,227	232,227	46,243	0	0	0	0	46,243	0	278,470
<b>Total</b>	<b>\$0</b>	<b>\$232,227</b>	<b>\$232,227</b>	<b>\$46,243</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$46,243</b>	<b>\$0</b>	<b>\$278,470</b>



# CAPITAL IMPROVEMENT FUND

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Construction</b>	0	232,227	232,227	46,243	0	0	0	0	46,243	0	278,470
<b>Total</b>	<b>\$0</b>	<b>\$232,227</b>	<b>\$232,227</b>	<b>\$46,243</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$46,243</b>	<b>\$0</b>	<b>\$278,470</b>

### Operating Impact

This project is not anticipated to impact operating expenses and if any maintenance costs increase, costs will be absorbed with the available maintenance funding in the annual operating budget.

<p><b>Relationship to Comprehensive Plan</b>  <b>Primary Connection</b></p> <p>Element: Community Services &amp; Facilities                  Section: Maintenance of Parks and Community Facilities                  Goal: C-3                  Policy: C-3.2                  Program: C3.2.1</p> <p><b>Environmental Impact Analysis:</b>                  This project is expected to have a possible exemption from CEQA under Section 15302.</p>	<p><b>Potential Board/Commission Review:</b></p> <p>Parks and Recreation Commission                  Planning and Transportation Commission                  Architectural Review Board</p>
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**Fund:** Capital Improvement Fund  
**Category:** Parks and Open Space  
**Project Location:** Foothills Park (3300 Page Mill Road between Central and Moody)  
**Managing Department:** Public Works  
**IBRC Reference:** New  
**Initial Project Start:** Spring 2020  
**Initial Project Completion:** Fall 2020  
**Revised Project Start:** Fall 2022  
**Revised Project Completion:** Summer 2025  
**Project Number:** PE-20000

### Foothills Park

# Foothills Nature Preserve Dam Seepage Investigation and Repairs

## Description

This project provides funding to study a location of historic seepage from the Foothills Nature Preserve Dam at the sharp bend in the road on the face of the dam. The seepage is very minor, but it appears to be slowly worsening. The source of the seepage is suspected to be the trench backfill around the pipe that returns shallow groundwater to Boronda Lake. This project will investigate and monitor the seepage flow by channelizing seepage flow and potentially installing weir(s). The Department of Water Resources (DWR) performs annual inspection of the dam and may provide additional input to continue investigation for feasible solution as necessary. If an engineered solution can be found, this project will also fund construction to slow or stop the seepage as part of a future five-year CIP plan. The anticipated solution is excavation of a portion of the pipe and backfill with material that is more impervious to water transmissivity.

## Justification

Repairing the Foothills Nature Preserve Dam is the key to maintaining the Boronda Lake recreational facility. It is a cherished gateway feature of the park.

## Significant Changes

**2025-2029 CIP:** The project investigation will continue through FY 2025 based on further recommendation from the DWR.

**2024-2028 CIP:** Design and construction funding of \$50,000 has been added for a total project cost of \$0.1 million to continue investigation and weir installation to measure water seepage.

**2023-2027 CIP:** Project timeline moved to coincide with work on the Foothills Nature Preserve Improvements (PE-21000) project.

# CAPITAL IMPROVEMENT FUND

**2022-2026 CIP:** Project timeline moved out to coincide with work on the Foothills Nature Preserve Improvements (PE-21000) project.

**2021-2025 CIP:** Project start and completion dates extended due to workload of other projects in progress.

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Capital Improvement Fund	24,779	80,357	5,292	82,648	0	0	0	0	82,648	0	112,719
<b>Total</b>	<b>\$24,779</b>	<b>\$80,357</b>	<b>\$5,292</b>	<b>\$82,648</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$82,648</b>	<b>\$0</b>	<b>\$112,719</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Construction	0	33,175	3,175	33,030	0	0	0	0	33,030	0	36,205
Design	24,777	47,182	2,116	49,618	0	0	0	0	49,618	0	76,511
<b>Total</b>	<b>\$24,777</b>	<b>\$80,357</b>	<b>\$5,291</b>	<b>\$82,648</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$82,648</b>	<b>\$0</b>	<b>\$112,716</b>

## Operating Impact

This project is not anticipated to impact operating expenses as it is only to study seepage from the dam. Once a solution is determined, additional maintenance expenses may be incurred and will be brought forward as part of a future budget cycle.

<p><b>Relationship to Comprehensive Plan Primary Connection</b></p> <p>Element: Community Services &amp; Facilities          Section: Maintenance of Parks and Community Facilities          Goal: C-3          Policy: C-3.2</p>	<p><b>Potential Board/Commission Review:</b></p> <p>Parks and Recreation Commission          Planning and Transportation Commission          Architectural Review Board</p>
<p><b>Environmental Impact Analysis:</b>          This project is expected to have a possible exemption from CEQA under Section 15301.</p>	

## CAPITAL IMPROVEMENT FUND



Foothills Park Orchard Glen picnic area, January 2016

**Fund:** Capital Improvement Fund  
**Category:** Parks and Open Space  
**Project Location:** 3300 Page Mill Road between Central and Moody  
**Managing Department:** Public Works  
**IBRC Reference:** Keep-up  
**Initial Project Start:** Summer 2021  
**Initial Project Completion:** Fall 2022  
**Revised Project Start:** Fall 2023  
**Revised Project Completion:** Summer 2028  
**Project Number:** PE-21000

# Foothills Nature Preserve Improvements

## Description

This project provides funding to repair the bridge to Sunfish Island; design and permitting costs to replace the footbridge in Los Trancos Valley; to replace the grade control structures along Buckeye Creek, and to provide new split rail fencing to protect sensitive areas, new pedestrian pathways to keep park visitors safe while walking along the park road, and improvements to some of the existing parking areas to make them safer and more efficient.

## Justification

The Sunfish Island Bridge (located at Boronda Lake) needs to be repaired per an assessment completed in Fall 2021. The footbridge in Los Trancos Valley and grade control structures along Buckeye Creek are deteriorating and approaching the end of their useful life. If no action is taken, the footbridge and grade control structures will likely fail in the next five years. This would lead to severe erosion in several areas of Foothills Nature Preserve, especially Wild Horse Valley where the existing utility corridors would be threatened.

Since Foothills Nature Preserve opened to the general public on December 17, 2020, visitation has increased by approximately 100% compared to the historical average. The increase in visitors highlighted the need for several infrastructure improvements. One of the impacts from the increased visitation was people walking into sensitive off trail areas. Temporary measures (stakes and rope) to ensure people stay on trail have been effective, but a long-term solution is to add split rail fencing to protect sensitive areas. Another impact from the increased visitation has been more vehicles, pedestrians, and bicyclists on the narrow preserve roads. A new pedestrian pathway along the road would provide a safe place for pedestrians. Some of the existing parking areas in the preserve, in particular the parking around Vista Hill, need to be renovated and improved to make it safe and efficient for the increased number of vehicles in the preserve.

# CAPITAL IMPROVEMENT FUND

## Supplemental Information

Sunfish Island Bridge was built in the early 1960s and significant exterior wear and erosion have deteriorated the condition of this bridge as well as the Los Trancos Valley footbridge. The City completed a hydrology study of Buckeye Creek to provide recommendations to reduce erosion, sediment deposition, and flooding conditions in Foothills Nature Preserve. The study recommended options to resolve the current erosion issues and to restore the creek channel, including replacement of the footbridge and grade control structures along Buckeye Creek. Staff conducted an assessment of the current condition and remaining life of the foot bridge and grade control structures with a structural engineer.

**Fiscal Year 2025:** Ongoing pathways and fencing construction and parking lot improvements.

**Fiscal Year 2027:** Design/permitting for footbridge and Buckeye Creek grade control structures.

**Fiscal Year 2028:** Footbridge replacement and Buckeye Creek grade control construction.

## Significant Changes

**2024-2028 CIP:** Design and construction of footbridge and grade control structures have been moved to FY 2027 and FY 2028 due to staffing constraints. Construction costs increased by approximately \$0.3 million due to cost escalation for a total project cost of \$3.6 million.

**2023-2027 CIP:** Project design and construction funding increased by approximately \$3.0 million to include updated cost estimates for the footbridge and Buckeye Creek grade control structures replacement, and pathways and fencing improvements.

**2021-2025 CIP:** Project design and construction funding delayed from FY 2021 to FY 2023 for design and FY 2024 for construction due to staffing constraints and other high priority projects.

**2019-2023 CIP:** The Los Trancos Valley footbridge and Buckeye Creek grade control structures replacement has been added to the scope of this project.

**2018-2022 CIP:** Funding has been moved from FY 2020 to FY 2021 to coordinate with the findings from the Foothills Park, Pearson Arastradero Preserve, and Esther Clark Park Comprehensive Conservation Plan project.

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Capital Improvement Fund	98,222	933,519	240,773	762,728	0	450,486	2,158,369	0	3,371,583	0	3,710,578
<b>Total</b>	<b>\$98,222</b>	<b>\$933,519</b>	<b>\$240,773</b>	<b>\$762,728</b>	<b>\$0</b>	<b>\$450,486</b>	<b>\$2,158,369</b>	<b>\$0</b>	<b>\$3,371,583</b>	<b>\$0</b>	<b>\$3,710,578</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Construction	0	442,339	42,338	440,410	0	0	2,158,369	0	2,598,779	0	2,641,117
Design	98,221	491,180	198,435	322,318	0	450,486	0	0	772,804	0	1,069,460
<b>Total</b>	<b>\$98,221</b>	<b>\$933,519</b>	<b>\$240,773</b>	<b>\$762,728</b>	<b>\$0</b>	<b>\$450,486</b>	<b>\$2,158,369</b>	<b>\$0</b>	<b>\$3,371,583</b>	<b>\$0</b>	<b>\$3,710,577</b>

# CAPITAL IMPROVEMENT FUND

## Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

**Relationship to Comprehensive Plan  
Primary Connection**

Element: Community Services &  
Facilities  
Section: Maintenance of Parks and  
Community Facilities  
Goal: C-3  
Policy: C-3.3

**Potential Board/Commission Review:**

Parks and Recreation Commission  
Planning and Transportation  
Commission  
Architectural Review Board

**Environmental Impact Analysis:**

This project is expected to have a possible exemption from CEQA under Section 15301.



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**Fund:** Capital Improvement Fund  
**Category:** Parks and Open Space  
**Project Location:** 3300 Page Mill Road between Central and Moody  
**Managing Department:** Public Works  
**IBRC Reference:** N/A  
**Initial Project Start:** Summer 2025  
**Initial Project Completion:** Summer 2029  
**Revised Project Start:** N/A  
**Revised Project Completion:** N/A  
**Project Number:** PE-26000

Foothills Park Restroom facility at the Oak Grove picnic area

# Foothills Nature Preserve Restroom Replacement

## Description

This project includes replacement of three restrooms in Foothills Nature Preserve including restrooms at the preserve entrance and Orchard Glen and Oak Grove picnic areas. These facilities will also be upgraded to meet the Americans with Disability Act (ADA) requirements. The restrooms at Orchard Glen and Oak Grove picnic areas will be replaced with prefabricated structures, and the preserve entrance restroom will be rehabilitated or replaced based on assessment.

## Justification

The restrooms at Foothills Nature Preserve have reached their useful life and need upgrades to meet current standards and ADA requirements. These restrooms are heavily used by park patrons especially since the preserve was opened to the general public in 2020. It is anticipated that the design including site improvements, utilities and restroom building designs, and City permitting will be conducted for all three restrooms in fiscal year 2026. Based on current condition, maintenance needs and usage, the Orchard Glen restroom will need replacement by 2027. The restroom at Oak Grove picnic area runs on a septic system which needs replacement by 2028. Feasibility of replacing the septic system with City sewer would be evaluated during the preliminary design phase. The Preserve entrance restroom improvements would be implemented in 2029. Placeholders for construction cost estimates have been included and will be updated once design is complete.

## Supplemental Information

Three restrooms will be installed in total, one each year from FY 2027 to FY 2029.

**Fiscal Year 2026:** Design of three restrooms.

**Fiscal Year 2027:** Construction of the Orchard Glen restroom.

**Fiscal Year 2028:** Construction of the Oak Grove restroom.



# CAPITAL IMPROVEMENT FUND

**Fiscal Year 2029:** Construction of the Preserve entrance restroom

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Capital Improvement Fund	0	0	0	0	561,699	1,914,569	1,703,976	817,192	4,997,436	0	4,997,436
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$561,699</b>	<b>\$1,914,569</b>	<b>\$1,703,976</b>	<b>\$817,192</b>	<b>\$4,997,436</b>	<b>\$0</b>	<b>\$4,997,436</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Construction	0	0	0	0	0	1,914,569	1,703,976	817,192	4,435,737	0	4,435,737
Design	0	0	0	0	561,699	0	0	0	561,699	0	561,699
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$561,699</b>	<b>\$1,914,569</b>	<b>\$1,703,976</b>	<b>\$817,192</b>	<b>\$4,997,436</b>	<b>\$0</b>	<b>\$4,997,436</b>

## Operating Impact

Additional custodial and routine maintenance costs will increase to service these new facilities. As these costs are quantified, adjustments will be brought forward in future budgets as necessary.

### Relationship to Comprehensive Plan Primary Connection

Element: Community Services & Facilities  
Section: Maintenance of Parks and Community Facilities  
Goal: C-3  
Policy: C-3.2

### Potential Board/Commission Review:

Parks and Recreation Commission  
Planning and Transportation Commission  
Architectural Review Board

### Environmental Impact Analysis:

Possible exemption from CEQA under Section 15302

## CAPITAL IMPROVEMENT FUND



**Fund:** Capital Improvement Fund  
**Category:** Parks and Open Space  
**Project Location:** Palo Alto Municipal Golf Course (1875 Embarcadero Road)  
**Managing Department:** Community Services  
**IBRC Reference:** Keep-up  
**Initial Project Start:** Spring 2018  
**Initial Project Completion:** Summer 2018  
**Revised Project Start:** Summer 2023  
**Revised Project Completion:** Summer 2025  
**Project Number:** PG-18000

### Golf Course Net and Artificial Turf

# Golf Course Net and Artificial Turf Replacement

## Description

This project provides funding for the removal and replacement of golf course driving range netting and synthetic turf and installation of new netting or replacement where needed.

## Justification

Based on age, condition, and useful life expectancy, the golf course driving range netting and synthetic turf will need to be replaced. The golf course driving range is a popular facility, and is used as a teaching area. The facility is an important source of revenue to the City, and keeping it in a state of good repair will aid in maintaining this revenue stream.

## Supplemental Information

The City and First Tee Silicon Valley are exploring a potential public private partnership for access to facility use which would include improvements to practice facilities such as the netting of the driving range. This project will need a cost estimate update as the cost estimate for this capital project was performed in FY 2013.

## Significant Changes

**2025-2029 CIP:** Project shifted from FY 2024 to FY 2025 due to a reprioritization of parks projects.

**2024-2028 CIP:** Project shifted from FY 2023 to FY 2024 due to a reprioritization of parks projects.

**2021-2025 CIP:** Project shifted from FY 2022 to FY 2023 due to a reprioritization of parks projects.

**2020-2024 CIP:** Project shifted from FY 2020 to FY 2022 due to a reprioritization of parks projects.

**2018-2022 CIP:** Project shifted from FY 2018 to FY 2020 due to a reprioritization of parks projects.

# CAPITAL IMPROVEMENT FUND

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Capital Improvement Fund	0	847,267	77,267	847,789	0	0	0	0	847,789	0	925,056
<b>Total</b>	<b>\$0</b>	<b>\$847,267</b>	<b>\$77,267</b>	<b>\$847,789</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$847,789</b>	<b>\$0</b>	<b>\$925,056</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Construction	0	847,267	77,267	847,789	0	0	0	0	847,789	0	925,056
<b>Total</b>	<b>\$0</b>	<b>\$847,267</b>	<b>\$77,267</b>	<b>\$847,789</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$847,789</b>	<b>\$0</b>	<b>\$925,056</b>

### Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

Relationship to Comprehensive Plan Primary Connection	Relationship to Comprehensive Plan Secondary Connection	Potential Board/Commission Review:
Element: Community Services & Facilities Section: Maintenance of Parks and Community Facilities Goal: C-3 Policy: C-3.2 Program: C3.2.1	Element: Community Services & Facilities Section: Maintenance of Parks and Community Facilities Goal: C-3 Policy: C-3.3 Program: C3.3.1	Parks and Recreation Commission Planning and Transportation Commission
<b>Environmental Impact Analysis:</b> This project is expected to have a possible exemption from CEQA under Section 15301.		

## CAPITAL IMPROVEMENT FUND



**Fund:** Capital Improvement Fund  
**Category:** Parks and Open Space  
**Project Location:** Palo Alto Municipal Golf Course (1875 Embarcadero Road)  
**Managing Department:** Community Services  
**IBRC Reference:** New  
**Initial Project Start:** Summer 2012  
**Initial Project Completion:** Spring 2015  
**Revised Project Start:** Summer 2012  
**Revised Project Completion:** Winter 2028  
**Project Number:** PG-13003

Palo Alto Golf Course, March 2015

# Golf Reconfiguration & Baylands Athletic Center Improvements

## Description

This project provides funding for the renovation of the Municipal Golf Course in accordance with the Council-approved conceptual plan. The project includes less turf, raising the elevation of the course with imported soil, replacement of the irrigation and drainage systems and space for athletic fields. The project will also fund five years of required environmental monitoring of the golf course.

## Justification

The need for this project was triggered by the San Francisquito Creek flood control improvements being implemented by the Creek Joint Powers Authority (JPA), which will encroach on the existing golf course. This creates an opportunity to resolve existing issues with the golf course, including the deteriorated irrigation system, high water consumption, poor soil, and the shortage of playing fields in Palo Alto. The course design will accentuate the natural Baylands setting and is expected to attract new users, increasing revenue.

## Supplemental Information

This project is partially funded through the San Francisquito Creek JPA (\$3.0 million) as mitigation for the impacts of its flood control project. The balance of the project cost will be financed through certificates of participation (COPs) issued by the city and repaid via golf course revenues over a period of 30 years. A financial analysis prepared by the National Golf Foundation projected revenues from the improved golf course will support repayment of the COPs.

## Significant Changes

**2024-2028 CIP:** Funding of \$0.1 million annually added through FY 2028 added for required environmental monitoring.

# CAPITAL IMPROVEMENT FUND

**2023-2027 CIP:** Construction of the golf course was completed in FY 2018, funds reappropriated for required environmental monitoring.

**2021-2025 CIP:** Construction funding reappropriations from FY 2020 to FY 2021 for this project will complete required monitoring.

**2016-2020 CIP:** Timeline extended to reflect full delay in construction phase due to difficulties in securing regulatory permits for the project. Additionally, project was reduced by \$24,450, which represents the amount that was previously budgeted for public art. In FY 2015, the City Council approved a new Public Art policy, which dedicated an amount equal to one percent of capital projects, with certain exclusions, for public art. Public Art expenses are accounted for within the Art in Public Places capital project. The reduction of \$24,450 represents the amount that was previously earmarked in this project for public art. Public Art funding of approximately \$100,000 (representing one percent of the total anticipated cost for this project) was added to the Art in Public Places project as part of this budget.

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Bond Proceeds</b>	8,375,000	0	0	0	0	0	0	0	0	0	8,375,000
<b>Capital Improvement Fund</b>	1,570,082	175,465	175,465	82,577	89,871	95,729	102,238	0	370,415	0	2,115,962
<b>Revenue from Other Agencies</b>	4,081,888	0	0	0	0	0	0	0	0	0	4,081,888
<b>Total</b>	<b>\$14,026,970</b>	<b>\$175,465</b>	<b>\$175,465</b>	<b>\$82,577</b>	<b>\$89,871</b>	<b>\$95,729</b>	<b>\$102,238</b>	<b>\$0</b>	<b>\$370,415</b>	<b>\$0</b>	<b>\$14,572,850</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Construction</b>	12,491,343	168,000	168,000	82,577	89,871	95,729	102,238	0	370,415	0	13,029,758
<b>Design</b>	1,535,613	7,465	7,465	0	0	0	0	0	0	0	1,543,078
<b>Total</b>	<b>\$14,026,956</b>	<b>\$175,465</b>	<b>\$175,465</b>	<b>\$82,577</b>	<b>\$89,871</b>	<b>\$95,729</b>	<b>\$102,238</b>	<b>\$0</b>	<b>\$370,415</b>	<b>\$0</b>	<b>\$14,572,836</b>

## Operating Impact

Operating and maintenance costs for the golf course are budgeted in the Community Services Department through a contract with a golf management company that is reviewed and updated based on the terms of the contract.

# CAPITAL IMPROVEMENT FUND

**Relationship to Comprehensive Plan  
Primary Connection**

Element: Community Services &  
Facilities  
Section: Maintenance of Parks and  
Community Facilities  
Goal: C-3  
Policy: C-3.2

**Potential Board/Commission Review:**

Parks and Recreation Commission  
Planning and Transportation  
Commission  
Architectural Review Board

**Environmental Impact Analysis:**

An Environmental Impact Report has been completed for this project.



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# CAPITAL IMPROVEMENT FUND



**Fund:** Capital Improvement Fund  
**Category:** Parks and Open Space  
**Project Location:** 300 Homer Avenue (bounded by Waverley, Homer, and Bryant)  
**Managing Department:** Community Services  
**IBRC Reference:** Keep-up  
**Initial Project Start:** Summer 2020  
**Initial Project Completion:** Summer 2022  
**Revised Project Start:** Summer 2024  
**Revised Project Completion:** Summer 2025  
**Project Number:** PG-21000

Heritage Park Bench, March 2017

## Heritage Park Site Amenities Replacement

### Description

The project provides funding for replacement of select walkways and all of the site amenities in Heritage Park including: benches, picnic tables, trash receptacles, playground arbor, bicycle racks and drinking fountain.

### Justification

Installed in 2005, the current site amenities have reached the use expectancy and need replacement. As park infrastructure ages, safety and compliance issues need to be addressed. This project will ensure compliance and address accessibility needs as well as safety issues.

### Significant Changes

**2021-2025 CIP:** Project shifted from FY 2022 to FY 2025 due to a reprioritization of parks projects.

### Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Capital Improvement Fund	0	0	0	143,134	0	0	0	0	143,134	0	143,134
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$143,134</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$143,134</b>	<b>\$0</b>	<b>\$143,134</b>



# CAPITAL IMPROVEMENT FUND

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Construction</b>	0	0	0	110,103	0	0	0	0	110,103	0	110,103
<b>Design</b>	0	0	0	33,031	0	0	0	0	33,031	0	33,031
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$143,134</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$143,134</b>	<b>\$0</b>	<b>\$143,134</b>

### Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

Relationship to Comprehensive Plan Primary Connection	Relationship to Comprehensive Plan Secondary Connection	Potential Board/Commission Review:
Element: Community Services & Facilities Section: Maintenance of Parks and Community Facilities Goal: C-3 Policy: C-3.3 Program: C3.3.1	Element: Community Services & Facilities Section: Maintenance of Parks and Community Facilities Goal: C-3 Policy: C-3.2 Program: C3.2.1	Parks and Recreation Commission Planning and Transportation Commission
<b>Environmental Impact Analysis:</b> This project is expected to have possible exemption from CEQA under Section 15301		

## CAPITAL IMPROVEMENT FUND



**Fund:** Capital Improvement Fund  
**Category:** Parks and Open Space  
**Project Location:** 2901 Cowper Street  
**Managing Department:** Public Works  
**IBRC Reference:** Keep-up  
**Initial Project Start:** Fall 2018  
**Initial Project Completion:** Spring 2019  
**Revised Project Start:** Summer 2026  
**Revised Project Completion:** Summer 2027  
**Project Number:** PE-18012

Hoover Park, February 2015

# Hoover Park Improvements

## Description

This project provides funding for the replacement of existing features including the decomposed granite walkway and brick wall surrounding the children's playground. It also includes the replacement of amenities such as the concrete walkway, playground, playfield backstops, benches, drinking fountains, tables and trash receptacles.

## Justification

The concrete walkway and decomposed granite pathway are cracked and/or uneven, creating safety hazards. The playground was installed in 2005 and will reach the end of its useful life by 2025. The brick wall at the playground and other site amenities, including the playfield backstops, are old or damaged.

## Significant Changes

**2024-2028 CIP:** Funding has been increased by approximately \$0.2 million for a total project cost of \$1.6 million due to construction costs escalation, walkway and brick wall replacement due to current condition, and to include green infrastructure components.

**2023-2027 CIP:** This project has been deferred from FY 2025 to FY 2027 due to staffing constraints. Design and construction expenses were increased to account for cost escalation.

**2021-2025 CIP:** Replacement of the children's playground and drinking fountains have been added to the scope of work and project shifted from FY 2022 to FY 2025 due to a reprioritization of parks projects.

**2020-2024 CIP:** Project shifted from FY 2022 to FY 2023 due to a reprioritization of parks projects.

# CAPITAL IMPROVEMENT FUND

**2018-2022 CIP:** The Parks, Trails, Natural Open Space and Recreational Master Plan projects were reviewed and adjusted according to staff availability as well as community and Infrastructure Blue Ribbon Commission (IBRC) needs.

**2017-2021 CIP:** Project shifted from FY 2018 to FY 2021 pending completion of the Parks Master Plan and a reprioritization of parks projects.

**2016-2020 CIP:** Project moved from 2018 to 2017 based on review of staff work load.

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Capital Improvement Fund	0	0	0	0	0	1,576,704	0	0	1,576,704	0	1,576,704
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,576,704</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,576,704</b>	<b>\$0</b>	<b>\$1,576,704</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Construction	0	0	0	0	0	1,351,460	0	0	1,351,460	0	1,351,460
Design	0	0	0	0	0	225,243	0	0	225,243	0	225,243
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,576,703</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,576,703</b>	<b>\$0</b>	<b>\$1,576,703</b>

## Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget. Cost for operation and maintenance of the green infrastructure component to be determined.

<p><b>Relationship to Comprehensive Plan</b>  <b>Primary Connection</b></p> <p>Element: Community Services &amp; Facilities          Section: Maintenance of Parks and Community Facilities          Goal: C-3          Policy: C-3.3</p> <p><b>Environmental Impact Analysis:</b>          This project is expected to have a possible exemption from CEQA under Section 15301.</p>	<p><b>Potential Board/Commission Review:</b></p> <p>Parks and Recreation Commission          Planning and Transportation Commission</p>
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# CAPITAL IMPROVEMENT FUND



**Fund:** Capital Improvement Fund  
**Category:** Parks and Open Space  
**Project Location:** 251 Waverley Street  
**Managing Department:** Public Works  
**IBRC Reference:** Keep-up  
**Initial Project Start:** Spring 2021  
**Initial Project Completion:** Winter 2022  
**Revised Project Start:** Fall 2025  
**Revised Project Completion:** Summer 2027  
**Project Number:** PE-21002

Johnson Park

## Johnson Park Renovation

### Description

This project provides funding for the renovation of existing park elements, including asphalt concrete and brick pathways, site furnishings, playground equipment and resurfacing, fencing, and improvements to irrigation and lighting.

### Justification

Pathways and park amenities are in need of repair or improvements to maintain functionality.

### Significant Changes

**2024-2028 CIP:** Project timeline shifted from FY 2024/2025 to FY 2026/2027 due to funding constraints.

**2021-2025 CIP:** Design and construction costs increased to align with increased scope of work and project shifted from FY 2021/2022 to FY 2024/2025 due to reprioritization of parks projects.

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Capital Improvement Fund	0	0	0	0	224,679	1,576,704	0	0	1,801,383	0	1,801,383
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$224,679</b>	<b>\$1,576,704</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,801,383</b>	<b>\$0</b>	<b>\$1,801,383</b>

# CAPITAL IMPROVEMENT FUND

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Construction</b>	0	0	0	0	0	1,576,704	0	0	1,576,704	0	1,576,704
<b>Design</b>	0	0	0	0	224,679	0	0	0	224,679	0	224,679
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$224,679</b>	<b>\$1,576,704</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,801,383</b>	<b>\$0</b>	<b>\$1,801,383</b>

### Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

<p><b>Relationship to Comprehensive Plan</b>  <b>Primary Connection</b></p> <p>Element: Community Services &amp; Facilities          Section: Maintenance of Parks and Community Facilities          Goal: C-3          Policy: C-3.3</p> <p><b>Environmental Impact Analysis:</b>          This project is expected to have a possible exemption from CEQA under Section 15301.</p>	<p><b>Potential Board/Commission Review:</b></p> <p>Parks and Recreation Commission          Planning and Transportation Commission          Architectural Review Board</p>
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## CAPITAL IMPROVEMENT FUND



Mitchell Park, February 2015

**Fund:** Capital Improvement Fund  
**Category:** Parks and Open Space  
**Project Location:** 600 East Meadow Drive  
**Managing Department:** Public Works  
**IBRC Reference:** Keep-up  
**Initial Project Start:** Fall 2018  
**Initial Project Completion:** Summer 2019  
**Revised Project Start:** Summer 2024  
**Revised Project Completion:** Summer 2026  
**Project Number:** PE-18010

# Mitchell Park Improvements

## Description

This project provides funding for repair and replacement of equipment and amenities throughout Mitchell Park. The improvements include replacement of the playground equipment located along East Meadow Drive, replacement of the water-play element, repair of the covered wood walkway structure, replacement of playground and water play area fencing, new rubberized surfacing, and replacement of the play areas. Also included are irrigation renovations, turf restoration, and replacement of site amenities and decomposed granite pathways.

## Justification

The playground equipment, water-play element, fencing, covered wood walkway structure, decomposed granite pathways and site amenities have surpassed their expected life cycle. Repair and/or replacement is necessary. Loss of vegetation has been linked to poor irrigation.

## Supplemental Information

Design of the new playground equipment will include outreach to nearby schools that have provided input regarding the playground equipment in the past. The Parks, Trails, Natural Open Space and Recreational Master Plan projects were reviewed and adjusted according to staff availability as well as community needs and recommendations from the Infrastructure Blue Ribbon Committee (IBRC).

## Significant Changes

**2024-2028 CIP:** Funding has been increased by approximately \$1.1 million for a total project cost of \$2.6 million to include replacement of water-play elements and play areas and to address construction cost escalation. Design funding shifted from FY 2025 to FY 2026 to align workload with resources.

**2023-2027 CIP:** This project has been deferred from FY 2023 to FY 2025 due to staffing constraints.

# CAPITAL IMPROVEMENT FUND

**2020-2024 CIP:** This project has been deferred due to staffing constraints.

**2019-2023 CIP:** This project has been deferred due to staffing constraints.

**2018-2022 CIP:** Design shifted from FY 2021 to FY 2020.

**2016-2020 CIP:** Based on the IBRC keep-up schedule for the park, irrigation renovations, turf restoration and park amenities replacement were added to the project’s scope with an additional budget allocation of \$946,000. This additional work was scheduled for FY 2020, and the project schedule was adjusted accordingly.

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Capital Improvement Fund	956	0	0	0	2,632,965	0	0	0	2,632,965	0	2,633,921
<b>Total</b>	<b>\$956</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$2,632,965</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$2,632,965</b>	<b>\$0</b>	<b>\$2,633,921</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Construction	0	0	0	0	2,190,627	0	0	0	2,190,627	0	2,190,627
Design	956	0	0	0	442,338	0	0	0	442,338	0	443,294
<b>Total</b>	<b>\$956</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$2,632,965</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$2,632,965</b>	<b>\$0</b>	<b>\$2,633,921</b>

## Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

<p><b>Relationship to Comprehensive Plan</b>  <b>Primary Connection</b></p> <p>Element: Community Services &amp; Facilities                  Section: Maintenance of Parks and Community Facilities                  Goal: C-3                  Policy: C-3.3</p> <p><b>Environmental Impact Analysis:</b>                  This project may require an environmental assessment in accordance with CEQA guidelines.</p>	<p><b>Potential Board/Commission Review:</b></p> <p>Parks and Recreation Commission                  Planning and Transportation Commission                  Architectural Review Board</p>
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## CAPITAL IMPROVEMENT FUND



Byxbee Park pole field, January 2015

**Fund:** Capital Improvement Fund  
**Category:** Parks and Open Space  
**Project Location:** Various  
**Managing Department:** Community Services  
**IBRC Reference:** Keep-up  
**Initial Project Start:** Recurring  
**Initial Project Completion:** Recurring  
**Revised Project Start:** N/A  
**Revised Project Completion:** N/A  
**Project Number:** OS-09001

# Off-Road Pathway Resurfacing And Repair

## Description

This project provides funding for the maintenance of Palo Alto's 9-miles of off-road paved trail system that is 35 years old and requires on-going, phased repairs. This project removes and replaces severely damaged sections of asphalt, repairs, cracks and base failures, and resurfaces worn or uneven surfaces of off-road asphalt pathways and bicycle trails. Priority will be given to the repair of the most uneven sections of pathway. Staff uses surface assessment data prepared by Public Works Engineering and input from the public to prioritize repair or replacement projects.

## Justification

This project is intended to maintain the existing system of off-road pathways and trails throughout Palo Alto in order to extend the useful life of pathway surfaces. The project will ensure safe, even and handicapped accessible surfaces for pedestrians, cyclists, and skaters. Repair of uneven trail surfaces will greatly reduce accidents.

## Significant Changes

**2024-2028 CIP:** New funding has been removed in FY 2025 as part of a balancing strategy to address competing infrastructure needs across the City. Funding is recommended to be reappropriated from FY 2024 into FY 2025 to address emergency repair needs.

**2021-2025 CIP:** Funding was reduced in FY 2021 as part of the FY 2021 Capital Improvement Program budget balancing strategy. Available funding will be used to perform emergency maintenance and spot repairs on pathways.

**2019-2023 CIP:** The Adobe Creek Reach Trail is a 600 foot long segment of the existing Santa Clara Valley Water District's maintenance road on the east side of Adobe Creek, between West Bayshore Road and East Meadow Drive. This trail will provide an off-road, more direct access to the Highway 101 Pedestrian and Bicycle



## CAPITAL IMPROVEMENT FUND

Overpass. The project includes trail pavement, grading and drainage, and installation of safety railing and fencing.

**2018-2022 CIP:** In accordance with the Funding Agreement for the project, a payment of approximately \$170,000 will be made to the Joint Power Agreement (JPA) "Highway 101 to Bay Flood Control" project in FY 2018. The remaining balance will be used for off-road trail repairs.

### Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Capital Improvement Fund	N/A	300,810	56,076	269,457	121,326	126,137	131,773	122,578	771,271	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$300,810</b>	<b>\$56,076</b>	<b>\$269,457</b>	<b>\$121,326</b>	<b>\$126,137</b>	<b>\$131,773</b>	<b>\$122,578</b>	<b>\$771,271</b>	<b>\$0</b>	<b>N/A</b>

### Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Construction	N/A	300,810	56,076	269,457	121,326	126,137	131,773	122,578	771,271	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$300,810</b>	<b>\$56,076</b>	<b>\$269,457</b>	<b>\$121,326</b>	<b>\$126,137</b>	<b>\$131,773</b>	<b>\$122,578</b>	<b>\$771,271</b>	<b>\$0</b>	<b>N/A</b>

### Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

#### Relationship to Comprehensive Plan Primary Connection

Element: Community Services & Facilities  
Section: Maintenance of Parks and Community Facilities  
Goal: C-3  
Policy: C-3.2

#### Potential Board/Commission Review:

Parks and Recreation Commission  
Planning and Transportation Commission

#### Environmental Impact Analysis:

This project is expected to have a possible exemption from CEQA under Section 15301.

# CAPITAL IMPROVEMENT FUND



**Fund:** Capital Improvement Fund  
**Category:** Parks and Open Space  
**Project Location:** Foothills Park Boronda Lake (3300 Page Mill Road between Central and Moody)  
**Managing Department:** Community Services  
**IBRC Reference:** Keep-up  
**Initial Project Start:** Recurring  
**Initial Project Completion:** Recurring  
**Revised Project Start:** N/A  
**Revised Project Completion:** N/A  
**Project Number:** OS-00002

Boronda Lake, January 2015

## Open Space Lakes And Pond Maintenance

### Description

This project rehabilitates lakes and ponds in open space nature preserves to protect wildlife habitat and recreational safety and to meet State Division of Safety of Dams requirements. The project funds annual harvesting of non-native pond weeds and cattails at Boronda Lake in Foothills Park. The project also funds maintenance of the Duck Pond aerator for improved water quality.

### Justification

Pond weeds and cattails must be regularly removed from Boronda Lake to prevent non-native plants from displacing native plants that are essential to the survival of fish and foraging animals. This also will provide access for recreational fishing and boating safety. The State Division of Safety of Dams mandates cattail removal to maintain the Boronda Dam. The Baylands Duck Pond aeration system maintains water quality for wildlife.

### Significant Changes

**2016-2020 CIP:** This project was converted to annual recurring status, rather than past practice of receiving additional funding every other year. The change addressed the changing needs of Boronda Lake. The aquatic weeds that are harvested need to be cleared more thoroughly every year.

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Capital Improvement Fund	N/A	106,355	106,354	50,868	53,136	54,621	56,458	50,155	265,238	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$106,355</b>	<b>\$106,354</b>	<b>\$50,868</b>	<b>\$53,136</b>	<b>\$54,621</b>	<b>\$56,458</b>	<b>\$50,155</b>	<b>\$265,238</b>	<b>\$0</b>	<b>N/A</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Construction</b>	N/A	106,355	106,354	50,868	53,136	54,621	56,458	50,155	265,238	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$106,355</b>	<b>\$106,354</b>	<b>\$50,868</b>	<b>\$53,136</b>	<b>\$54,621</b>	<b>\$56,458</b>	<b>\$50,155</b>	<b>\$265,238</b>	<b>\$0</b>	<b>N/A</b>

### Operating Impact

This project is not anticipated to impact operating expenses and if any maintenance costs increase, costs will be absorbed with the available maintenance funding in the annual operating budget.

<p><b>Relationship to Comprehensive Plan</b>  <b>Primary Connection</b></p> <p>Element: Natural Environment                  Section: Open Space                  Goal: N-1                  Policy: N-1.5                  Program: N1.5.1</p> <p><b>Environmental Impact Analysis:</b>                  This project is expected to have a possible exemption from CEQA under Section 15301.</p>	<p><b>Potential Board/Commission Review:</b></p> <p>Parks and Recreation Commission                  Planning and Transportation Commission</p>
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# CAPITAL IMPROVEMENT FUND



Baylands Bench, January 2015

**Fund:** Capital Improvement Fund  
**Category:** Parks and Open Space  
**Project Location:** Various  
**Managing Department:** Community Services  
**IBRC Reference:** Keep-up  
**Initial Project Start:** Recurring  
**Initial Project Completion:** Recurring  
**Revised Project Start:** N/A  
**Revised Project Completion:** N/A  
**Project Number:** OS-00001

## Open Space Trails and Amenities

### Description

This project provides funding to restore unpaved trails, fences, picnic areas, and campgrounds at Foothills Park, the Baylands, and the Pearson-Arastradero Nature Preserves. The project also provides habitat protection by guiding park users towards areas dedicated for hiking, biking, and assembling. Benches, tables, footbridges, and fences that are at the end of their useful life will systematically be replaced.

### Justification

Open Space trails require ongoing repair of natural erosion, storm damage, and control of aggressive plants, such as thistle and poison oak to ensure that facilities are safe, accessible, and maintained for recreational uses. These restoration projects are consistent with the Arastradero Preserve Trails Management Plan and the Foothills Park Trails Maintenance Plan.

### Significant Changes

**2017-2021 CIP:** Additional \$55,000 in funding added in FY 2017 for one-time repairs of the Los Trancos Trail.

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Capital Improvement Fund	N/A	372,692	372,691	225,050	234,677	240,447	247,871	228,507	1,176,552	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$372,692</b>	<b>\$372,691</b>	<b>\$225,050</b>	<b>\$234,677</b>	<b>\$240,447</b>	<b>\$247,871</b>	<b>\$228,507</b>	<b>\$1,176,552</b>	<b>\$0</b>	<b>N/A</b>

# CAPITAL IMPROVEMENT FUND

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Construction</b>	N/A	372,692	372,691	225,050	234,677	240,447	247,871	228,507	1,176,552	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$372,692</b>	<b>\$372,691</b>	<b>\$225,050</b>	<b>\$234,677</b>	<b>\$240,447</b>	<b>\$247,871</b>	<b>\$228,507</b>	<b>\$1,176,552</b>	<b>\$0</b>	<b>N/A</b>

### Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

<p><b>Relationship to Comprehensive Plan</b>  <b>Primary Connection</b></p> <p>Element: Natural Environment          Section: Open Space          Goal: N-1          Policy: N-1.5          Program: N1.5.1</p> <p><b>Environmental Impact Analysis:</b>          This project is expected to have a possible exemption from CEQA under Section 15301.</p>	<p><b>Potential Board/Commission Review:</b></p> <p>Parks and Recreation Commission          Planning and Transportation Commission</p>
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# CAPITAL IMPROVEMENT FUND



**Fund:** Capital Improvement Fund  
**Category:** Parks and Open Space  
**Project Location:** Various  
**Managing Department:** Community Services  
**IBRC Reference:** Keep-up  
**Initial Project Start:** Recurring  
**Initial Project Completion:** Recurring  
**Revised Project Start:** N/A  
**Revised Project Completion:** N/A  
**Project Number:** PG-09002

Briones Park, January 2015

## Park and Open Space Emergency Repairs

### Description

This project provides funding for the replacement or extensive repair of playgrounds, play yard surfaces, wooden structures, park amenities, and play equipment in the event of storms, fire, vandalism or structural failure.

### Justification

This project allows for the replacement or repair of damaged equipment or play structures for the convenience of the public.

### Significant Changes

**2022-2026 CIP:** This project was reduced by approximately \$20,000 in FY 2022 to contribute to cost containment strategies in FY 2022.

**2019-2023 CIP:** Funding is gradually increasing from \$75,000 to \$0.2 million annually over the 5-Year CIP. The project is used to address unpredicted issues like trails closed due to strong storm damage, failing infrastructure that can be repaired (the Baylands Sailing Station), and premature failure of playground equipment and surfacing.

### Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Capital Improvement Fund	N/A	367,187	367,186	281,422	293,655	301,038	310,577	286,221	1,472,913	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$367,187</b>	<b>\$367,186</b>	<b>\$281,422</b>	<b>\$293,655</b>	<b>\$301,038</b>	<b>\$310,577</b>	<b>\$286,221</b>	<b>\$1,472,913</b>	<b>\$0</b>	<b>N/A</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Construction</b>	N/A	367,187	367,186	281,422	293,655	301,038	310,577	286,221	1,472,913	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$367,187</b>	<b>\$367,186</b>	<b>\$281,422</b>	<b>\$293,655</b>	<b>\$301,038</b>	<b>\$310,577</b>	<b>\$286,221</b>	<b>\$1,472,913</b>	<b>\$0</b>	<b>N/A</b>

### Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

Relationship to Comprehensive Plan Primary Connection	Relationship to Comprehensive Plan Secondary Connection	Potential Board/Commission Review:
Element: Community Services & Facilities Section: Maintenance of Parks and Community Facilities Goal: C-3 Policy: C-3.2 Program: C3.2.1	Element: Community Services & Facilities Section: Maintenance of Parks and Community Facilities Goal: C-3 Policy: C-3.3 Program: C3.3.1	Parks and Recreation Commission Planning and Transportation Commission
<b>Environmental Impact Analysis:</b> This project is expected to have a possible exemption from CEQA under Section 15301.		

## CAPITAL IMPROVEMENT FUND



**Fund:** Capital Improvement Fund

**Category:** Parks and Open Space

**Project Location:** Various

**Managing Department:** Community Services

**IBRC Reference:** New

**Initial Project Start:** Recurring

**Initial Project Completion:** Recurring

**Revised Project Start:** N/A

**Revised Project Completion:** N/A

**Project Number:** PG-19000

Park Restroom, February 2017

# Park Restroom Installation

## Description

This project provides funding for installation of restrooms at City parks that currently do not have restroom facilities. The restrooms may be prefabricated and each installation will require a Park Improvement Ordinance.

## Justification

Many parks in the City have no restroom facilities within the park boundaries. This project will provide for one park restroom installation every other year in parks that are approximately two acres or larger, have amenities that encourage visitors to stay in the park, have high level of use, and where there are no nearby public restrooms available. The Parks, Trails, Natural Open Space, and Recreation Master Plan provides guidance on potential restroom locations.

## Supplemental Information

Public outreach will occur as specific parks are considered for restroom installation.

## Significant Changes

**2025-2029 CIP:** Future estimated Parks Development Fee Funding has been programmed to offset future costs for this project. If fee revenue does not come in as estimated, the work in this project will need to be pushed out until funds are available.

**2024-2028 CIP:** FY 2024 funding has been increased for completion of two restrooms and due to increase in cost of fabrication, installation, and site preparation. Funding in FY 2026 and 2028 has been increased to reflect estimated higher costs. Parks Development Impact Fee Funding was previously programmed to fund costs in this project and the Dog Park Installation and Renovation project (PG-18001); however, fee funds collected through FY 2023 were reallocated to the Boulware Park Improvements project (PE-17005). Future fee funds may be allocated to this project to free up Capital Improvement funding for other project needs.



## CAPITAL IMPROVEMENT FUND

**2023-2027 CIP:** FY 2022 funding has been deferred to FY 2023 due to staffing constraints, but future installations will remain in the even fiscal years.

**2022-2026 CIP:** FY 2021 funding moved to FY 2022 to coincide with other park projects. FY 2022 funding moved to FY 2024 for funding every other year.

**2021-2025 CIP:** FY 2020 funding moved to FY 2021 due to staffing constraints and other high priority projects. FY 2021 funding moved to FY 2022 to coincide with other park projects.

**2020-2024 CIP:** FY 2019 funding moved to FY 2020 as next restroom installation is being coordinated with other park renovation projects.

### Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Capital Improvement Fund	N/A	403,451	(227,970)	695,210	92,228	0	99,528	0	886,966	0	N/A
Transfer from Parks Development Impact Fee Fund	N/A	790,000	158,579	631,421	559,342	0	559,342	0	1,750,105	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$1,193,451</b>	<b>\$(69,391)</b>	<b>\$1,326,631</b>	<b>\$651,570</b>	<b>\$0</b>	<b>\$658,870</b>	<b>\$0</b>	<b>\$2,637,071</b>	<b>\$0</b>	<b>N/A</b>

### Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Construction	N/A	1,103,657	472,235	695,210	561,699	0	567,992	0	1,824,901	0	N/A
Design	N/A	89,794	89,794	0	89,871	0	90,878	0	180,749	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$1,193,451</b>	<b>\$562,029</b>	<b>\$695,210</b>	<b>\$651,570</b>	<b>\$0</b>	<b>\$658,870</b>	<b>\$0</b>	<b>\$2,005,650</b>	<b>\$0</b>	<b>N/A</b>

### Operating Impacts

	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total
General Fund-Operating	19,200	29,700	30,600	40,000	41,200	160,700

#### Operating Impact

Custodial costs are approximately \$9,000 per year per restroom in the operating budget for existing restrooms. Operating funding for maintenance will be increased as part of the annual budget process as more park restrooms are installed.

# CAPITAL IMPROVEMENT FUND

<b>Relationship to Comprehensive Plan Primary Connection</b>	<b>Relationship to Comprehensive Plan Secondary Connection</b>	<b>Potential Board/Commission Review:</b>
Element: Community Services & Facilities Section: Maintenance of Parks and Community Facilities Goal: C-3 Policy: C-3.3 Program: C3.3.1	Element: Community Services & Facilities Section: Maintenance of Parks and Community Facilities Goal: C-3 Policy: C-3.2 Program: C3.2.1	Parks and Recreation Commission Planning and Transportation Commission Architectural Review Board
<b>Environmental Impact Analysis:</b> This project is expected to have possible exemption from CEQA under Section 15303		



CITY OF  
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ALTO**

## CAPITAL IMPROVEMENT FUND



**Fund:** Capital Improvement Fund  
**Category:** Parks and Open Space  
**Project Location:** 1530 Arastradero Road  
**Managing Department:** Public Works  
**IBRC Reference:** Keep-up  
**Initial Project Start:** Summer 2020  
**Initial Project Completion:** Fall 2021  
**Revised Project Start:** Fall 2026  
**Revised Project Completion:** Fall 2029  
**Project Number:** PE-21001

Pearson Arastradero Preserve

# Pearson Arastradero Improvement Project

## Description

This project provides funds for replacing fencing, signs, gates, bridge decking, and making improvements to some of the seasonal trails to help reduce winter trail closures.

## Justification

The fencing, signs, gates, and bridge decking have exceeded their useful lifespans, and need to be replaced. There are a number of seasonal trails that must be closed during the rainy season. The Parks, Trails, Natural Open Space and Recreational Master Plan projects were reviewed and adjusted according to staff availability as well as community needs and Infrastructure Blue Ribbon Committee recommendations.

## Significant Changes

**2025-2029 CIP:** Project construction deferred from FY 2028 to FY 2029 due to a reprioritization of parks projects and staffing constraints.

**2024-2028 CIP:** Project construction deferred from FY 2027 to FY 2028 due to a reprioritization of parks projects and staffing constraints.

**2023-2027 CIP:** Project construction deferred from FY 2024 to FY 2027 due to a reprioritization of parks projects and staffing constraints. Design and Construction expenses were increased to account for cost escalation.

**2020-2024 CIP:** Project construction shifted from FY 2021 to FY 2023 due to a reprioritization of parks projects.

**2018-2022 CIP:** Design was advanced from FY 2021 to FY 2020.

**2017-2021 CIP:** Project established.

# CAPITAL IMPROVEMENT FUND

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Capital Improvement Fund	0	0	0	0	0	0	113,599	510,745	624,344	0	624,344
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$113,599</b>	<b>\$510,745</b>	<b>\$624,344</b>	<b>\$0</b>	<b>\$624,344</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Construction	0	0	0	0	0	0	113,599	510,745	624,344	0	624,344
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$113,599</b>	<b>\$510,745</b>	<b>\$624,344</b>	<b>\$0</b>	<b>\$624,344</b>

### Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

#### Relationship to Comprehensive Plan Primary Connection

Element: Community Services & Facilities  
 Section: Maintenance of Parks and Community Facilities  
 Goal: C-3  
 Policy: C-3.2  
 Program: C3.2.1

#### Potential Board/Commission Review:

Parks and Recreation Commission  
 Planning and Transportation Commission  
 Architectural Review Board

#### Environmental Impact Analysis:

This project is expected to have a possible exemption from CEQA under Section 15301.

# CAPITAL IMPROVEMENT FUND



**Fund:** Capital Improvement Fund  
**Category:** Parks and Open Space  
**Project Location:** 1899 Park Boulevard  
**Managing Department:** Community Services  
**IBRC Reference:** Catch-up  
**Initial Project Start:** Summer 2017  
**Initial Project Completion:** Summer 2018  
**Revised Project Start:** Fall 2026  
**Revised Project Completion:** Summer 2028  
**Project Number:** PG-14001

Peers Park, January 2015

## Peers Park Improvements

### Description

This project provides funding for upgrades and renovations of the irrigation system and turf at Peers Park. The project will also repair playground surfacing, replace dog park surfacing, and upgrade drinking fountains.

### Justification

The existing irrigation system and drinking fountains have exceeded their useful lives.

### Significant Changes

**2025-2029 CIP:** Project shifted from FY 2024 to FY 2027 due to reprioritization of parks projects.

**2021-2025 CIP:** Project shifted from FY 2023 to FY 2024 due to reprioritization of parks projects.

**2019-2023 CIP:** Project shifted from FY 2021 to FY 2023 due to reprioritization of parks projects.

**2018-2022 CIP:** Project shifted from FY 2020 to FY 2021 due to reprioritization of parks projects.

**2017-2021 CIP:** Project shifted from FY 2018 to FY 2020 pending completion of the Parks Master Plan and a reprioritization of parks projects.

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Capital Improvement Fund	0	293,050	28,049	0	0	343,214	140,697	0	483,911	0	511,960
<b>Total</b>	<b>\$0</b>	<b>\$293,050</b>	<b>\$28,049</b>	<b>\$0</b>	<b>\$0</b>	<b>\$343,214</b>	<b>\$140,697</b>	<b>\$0</b>	<b>\$483,911</b>	<b>\$0</b>	<b>\$511,960</b>

# CAPITAL IMPROVEMENT FUND

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Construction</b>	0	293,050	28,049	0	0	343,214	140,697	0	483,911	0	511,960
<b>Total</b>	<b>\$0</b>	<b>\$293,050</b>	<b>\$28,049</b>	<b>\$0</b>	<b>\$0</b>	<b>\$343,214</b>	<b>\$140,697</b>	<b>\$0</b>	<b>\$483,911</b>	<b>\$0</b>	<b>\$511,960</b>

### Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

Relationship to Comprehensive Plan Primary Connection	Relationship to Comprehensive Plan Secondary Connection	Potential Board/Commission Review:
Element: Community Services & Facilities Section: Maintenance of Parks and Community Facilities Goal: C-3 Policy: C-3.3 Program: C3.3.1	Element: Community Services & Facilities Section: Maintenance of Parks and Community Facilities Goal: C-3 Policy: C-3.2 Program: C3.2.1	Parks and Recreation Commission Planning and Transportation Commission
<b>Environmental Impact Analysis:</b> This project is expected to have a possible exemption from CEQA under Section 15301.		

## CAPITAL IMPROVEMENT FUND



Ramos Park, January 2015

**Fund:** Capital Improvement Fund  
**Category:** Parks and Open Space  
**Project Location:** 800 East Meadow Drive  
**Managing Department:** Community Services  
**IBRC Reference:** Catch-up  
**Initial Project Start:** Summer 2015  
**Initial Project Completion:** Summer 2015  
**Revised Project Start:** Summer 2023  
**Revised Project Completion:** Summer 2025  
**Project Number:** PG-14000

# Ramos Park Improvements

## Description

This project provides funding for safety and accessibility improvements at Ramos Park including replacing the existing park playground, benches, and drinking fountain, as well as resurfacing the basketball court playing surface.

## Justification

The existing playground, benches, basketball court surfaces, and drinking fountains have exceeded their useful lives. As park infrastructure ages, safety and compliance issues need to be addressed. This project will ensure compliance and address accessibility needs as well as safety issues.

## Significant Changes

**2024-2028 CIP:** Funding increased by approximately \$0.4 million due to cost escalation for a total project cost of \$0.9 million.

**2023-2027 CIP:** Project funding increased by approximately \$0.3 million to a total of \$0.5 million to account for increased bid prices for the scope of work.

**2022-2026 CIP:** Project shifted from FY 2021 to FY 2022 to contribute to cost containment strategies in FY 2022.

**2018-2022 CIP:** Project shifted from FY 2018 to FY 2020 due to reprioritization of parks projects. Also, additional funding requested to address Infrastructure Blue Ribbon Committee (IBRC) recommendations.

**2017-2021 CIP:** Timeline extended to reflect direction from Finance Committee and City Council during budget approval process.



# CAPITAL IMPROVEMENT FUND

**2016-2020 CIP:** The project completion originally referred only to the pre-design phase and was modified to represent completion of the full project, including construction.

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Capital Improvement Fund</b>	256,583	386,941	386,941	38,535	0	0	0	0	38,535	0	682,059
<b>Total</b>	<b>\$256,583</b>	<b>\$386,941</b>	<b>\$386,941</b>	<b>\$38,535</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$38,535</b>	<b>\$0</b>	<b>\$682,059</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Construction</b>	19,304	386,941	386,941	38,535	0	0	0	0	38,535	0	444,780
<b>Design</b>	237,277	0	0	0	0	0	0	0	0	0	237,277
<b>Total</b>	<b>\$256,581</b>	<b>\$386,941</b>	<b>\$386,941</b>	<b>\$38,535</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$38,535</b>	<b>\$0</b>	<b>\$682,057</b>

### Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

Relationship to Comprehensive Plan Primary Connection	Relationship to Comprehensive Plan Secondary Connection	Potential Board/Commission Review:
Element: Community Services & Facilities Section: Maintenance of Parks and Community Facilities Goal: C-3 Policy: C-3.3 Program: C3.3.1	Element: Community Services & Facilities Section: Maintenance of Parks and Community Facilities Goal: C-3 Policy: C-3.2 Program: C3.2.1	Parks and Recreation Commission Planning and Transportation Commission
<b>Environmental Impact Analysis:</b> This project is expected to have a possible exemption from CEQA under Section 15301.		

## CAPITAL IMPROVEMENT FUND



Rinconada Park February 2015

**Fund:** Capital Improvement Fund  
**Category:** Parks and Open Space  
**Project Location:** 777 Embarcadero Road  
**Managing Department:** Public Works  
**IBRC Reference:** New  
**Initial Project Start:** Summer 2015  
**Initial Project Completion:** Spring 2019  
**Revised Project Start:** Summer 2019  
**Revised Project Completion:** Fall 2027  
**Project Number:** PE-08001

# Rinconada Park Improvements

## Description

Upon completion of the Rinconada Park Long Range Plan (LRP) adopted in 2017, funding was secured to begin these park improvements. Phase 1 improvements including safety, site amenities, playground facilities, irrigation, drainage, and accessibility improvements in the western half of the park were completed in April 2022. The restroom that was removed from Phase 1 Improvements due to funding constraints was added in Fiscal Year 2023 to complete all Phase 1 Improvements. The City and the Palo Alto Tennis Club signed a Memorandum of Understanding and License Agreement to replace the tennis club storage buildings at the park with a modular unit.

Phase 2 improvements would include renovation of the eastern half of the park including pathway improvements, a new restroom facility, renovated and expanded group picnic areas, native and habitat planting, irrigation improvements, ADA upgrades, directional signage, site furnishing, lighting, and green infrastructure elements.

## Justification

Rinconada Park has not been renovated for several decades with pathways in poor condition, aging facilities and site amenities. The Rinconada Park Long Range Plan outlines several park improvements related to deferred maintenance items at the park, such as installing wider pathways, additional group picnic areas, shaded seating areas, expansion of the pool deck area, a new park restroom, and creating better connections to the surrounding city facilities. A new modular tennis club storage building will be purchased by the Palo Alto Tennis Club and installed by the City.

## Supplemental Information

The City will conduct a community based design process to determine the final scope of work for Rinconada Park Phase 2 improvements. Phase 1 improvements construction started in fall 2021 and was completed in April 2022.

Work on this project will be scheduled as follows:

**Fiscal Year 2024:** Funding to complete site preparation and utilities work for Phase 1 Restroom and will be funded from Parks Development Impact Fee fund.

**Fiscal Year 2025:** Funding has been added to complete permitting, coordination, site work and installation of modular storage building for the Palo Alto Tennis Club.

**Fiscal Year 2027:** Design of Phase 2 park improvements.

**Fiscal Year 2028:** Construction of Phase 2 park improvements.

## Significant Changes

**2025-2029 CIP:** Funding has been increased by \$0.1 million in FY2025 for site work and installation of the modular storage building for the tennis club for a total \$10.1 million project cost.

**2024-2028 CIP:** Funding increased to complete site preparation and utilities work for the prefabricated restroom building in FY 2024. Funding for Phase 2 park improvements have shifted to FY 2027/2028 and have increased due to escalation. The new family changing room/restroom facility was removed from this project and a separate project, Rinconada Pool Family Changing Room (PE-24004) has been created.

**2023-2027 CIP:** Funding of approximately \$0.4 million for a park restroom that was removed from Phase 1 improvements in FY 2021 has been added in FY 2023 and funded by Parks Impact Fee funds. Phase 2 improvements are now planned to begin design in FY 2024 and construction in FY 2026. As part of the Council approved plan to fund the Roth Building Rehabilitation project (PE-23001), \$1.65 million of Community Center Impact Fee funding that was previously transferred for this project will be used to partially fund PE-23001. Parks Dedication funding of \$1.65 million will be transferred for this project.

**2022-2026 CIP:** Rinconada Park Phase 2 design is scheduled in FY 2025 and construction in FY 2026.

**2021-2025 CIP:** Rinconada Park Phase 2 design is scheduled in FY 2024 and construction in FY 2025.

**2021-2025 CIP:** Rinconada Park Phase 2 design is scheduled in FY 2023 and construction in FY 2025.

**2020-2024 CIP:** Funding moved from FY 2019 to FY 2020 to align with work being done in the JMZ Renovation project (AC-18001).

**2019-2023 CIP:** The project increased by \$1.3 million to reconstruct the parking lot, update park signage, and renovate the playground and reconstruct the paths on the west end of the park. Funding from the Community Center Impact Fee Fund will be used for these items.

**2018-2022 CIP:** The project was delayed to coordinate with environmental assessments for the Junior Museum and Zoo (JMZ), Rinconada Park Long Range Plan and the Parks, Trails, Natural Open Space and Recreation Master Plan Parks (Master Plan), to be complete by FY 2018. Park construction will be coordinated to follow the proposed JMZ rebuilding. \$0.7 million of the construction phase funding will be utilized for costs associ-

# CAPITAL IMPROVEMENT FUND

ated with relocation of the existing JMZ operation to Cubberley and permit & inspection fees needed for the JMZ rebuilding.

**2017-2021 CIP:** Timeline extended to reflect direction from Finance Committee and City Council during budget approval process.

**2016-2020 CIP:** Project was delayed to await the completion of the Rinconada Park Long Range Plan and environmental review. Funding for construction was advanced from FY 2018 to 2017 and combined with funding from FY 2015 to implement a single phase project. The total budget has been reduced by \$0.6 million from the budget shown in the 2015-2019 CIP to focus on deferred maintenance items. Funding to enhance the park will be considered as part of the funding needs for the entire City park system once the Rinconada Park Long Range Plan and the Parks Master Plan are completed.

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Capital Improvement Fund	2,403,092	469,657	469,657	110,102	0	450,486	4,089,543	0	4,650,131	0	7,522,880
Transfer from Community Center Impact Fee Fund	2,073,846	0	0	0	0	0	0	0	0	0	2,073,846
Transfer from Parks Development Impact Fee Fund	383,633	46,367	46,367	0	0	0	0	0	0	0	430,000
Transfer from Stormwater Management Fund	149,600	0	0	0	0	0	0	0	0	0	149,600
<b>Total</b>	<b>\$5,010,171</b>	<b>\$516,024</b>	<b>\$516,024</b>	<b>\$110,102</b>	<b>\$0</b>	<b>\$450,486</b>	<b>\$4,089,543</b>	<b>\$0</b>	<b>\$4,650,131</b>	<b>\$0</b>	<b>\$10,176,326</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Construction	4,254,696	513,697	513,697	110,102	0	0	4,089,543	0	4,199,645	0	8,968,038
Design	755,459	2,327	2,327	0	0	450,486	0	0	450,486	0	1,208,272
<b>Total</b>	<b>\$5,010,155</b>	<b>\$516,024</b>	<b>\$516,024</b>	<b>\$110,102</b>	<b>\$0</b>	<b>\$450,486</b>	<b>\$4,089,543</b>	<b>\$0</b>	<b>\$4,650,131</b>	<b>\$0</b>	<b>\$10,176,310</b>

## Operating Impacts

	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total
General Fund-Operating	21,300	22,000	22,600	23,300	24,000	113,200

### Operating Impact

This project is anticipated to impact operating expenses in the future. Custodial and maintenance costs are estimated to be \$21,300 in FY 2025 and increase by three percent annually thereafter. These costs will be

included as part of the City’s custodial contract. Cost for operations and maintenance of the green infrastructure feature to be determined.

<b>Relationship to Comprehensive Plan Primary Connection</b>	<b>Potential Board/Commission Review:</b>
Element: Community Services & Facilities Section: Maintenance of Parks and Community Facilities Goal: C-3 Policy: C-3.3	Parks and Recreation Commission Planning and Transportation Commission
<b>Environmental Impact Analysis:</b>	
This project is expected to have a possible exemption from CEQA under Section 15301.	

# CAPITAL IMPROVEMENT FUND



**Fund:** Capital Improvement Fund  
**Category:** Parks and Open Space  
**Project Location:** 777 Embarcadero Road  
**Managing Department:** Community Services  
**Initial Project Start:** Summer 2027  
**Initial Project Completion:** Spring 2028  
**Revised Project Start:** N/A  
**Revised Project Completion:** N/A  
**Project Number:** PG-25003

Starting blocks at Rinconada Pool

## Rinconada Pool Starting Blocks

### Description

This project will replace the Rinconada Lap Pool starting blocks used for practice and competitions. The age of the starting blocks is unknown, but they have been deteriorating and are unstable. Temporary repairs have been made to shim the base of the blocks for stability until replacement.

### Justification

As starting blocks for swimmers to lean and launch into the pool, stability is essential due to being in an elevated position. The pool design has water at deck level and thus necessitates a higher than usual starting block, further necessitating a stable platform to jump from.

### Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Capital Improvement Fund	0	0	0	0	0	142,466	0	0	142,466	0	142,466
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$142,466</b>	<b>\$0</b>	<b>\$0</b>	<b>\$142,466</b>	<b>\$0</b>	<b>\$142,466</b>

### Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Construction	0	0	0	0	0	125,573	0	0	125,573	0	125,573
Design	0	0	0	0	0	16,893	0	0	16,893	0	16,893
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$142,466</b>	<b>\$0</b>	<b>\$0</b>	<b>\$142,466</b>	<b>\$0</b>	<b>\$142,466</b>

**Operating Impact**

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

<b>Relationship to Comprehensive Plan Primary Connection</b>	<b>Potential Board/Commission Review:</b>
Element: Community Services & Facilities Section: Maintenance of Parks and Community Facilities Goal: C-3 Policy: C-3.2	Parks and Recreation Commission Planning and Transportation Commission
<b>Environmental Impact Analysis:</b>	
This project is expected to have a possible exemption from CEQA under Section 15301.	



## CAPITAL IMPROVEMENT FUND



Robles Park, February 2015

**Fund:** Capital Improvement Fund  
**Category:** Parks and Open Space  
**Project Location:** 4116 Park Boulevard  
**Managing Department:** Public Works  
**IBRC Reference:** Keep-up  
**Initial Project Start:** Fall 2018  
**Initial Project Completion:** Summer 2019  
**Revised Project Start:** Summer 2022  
**Revised Project Completion:** Fall 2024  
**Project Number:** PE-18015

# Robles Park Improvements

## Description

This project provides funding for the replacement of play equipment and resurfacing in two children's play-ground areas; repairs to a basketball court and adjacent concrete wall; and replacement of perimeter fencing, pathways and other site amenities. Irrigation renovations and turf restoration are also included in this project.

## Justification

The playground areas, backstop, basketball court, concrete pathways and site amenities have surpassed their intended useful lives and are in need of replacement or repairs. Damaged and/or dead vegetation necessitates irrigation renovation as well as turf restoration.

## Supplemental Information

The Parks, Trails, Natural Open Space and Recreational Master Plan projects were reviewed and adjusted according to staff availability as well as community and Infrastructure Blue Ribbon Committee (IBRC) needs.

## Significant Changes

**2025-2029 CIP:** Project costs increased by approximately \$0.2 million for a total project cost of \$0.7 million due to cost escalation in construction bids.

**2024-2028 CIP:** Project funding was reduced by approximately \$0.2 million for a total project cost of \$0.5 million to meet funding constraints. Staff will only address immediate safety needs.

**2023-2027 CIP:** The project construction has been moved from FY 2024 to FY 2023 because the playground is aging and has reached its useful life.

**2021-2025 CIP:** Design and construction for this project shifted to FY 2024 due to reprioritization of parks projects.



# CAPITAL IMPROVEMENT FUND

**2020-2024 CIP:** Design and construction for this project was shifted to FY 2022.

**2018-2022 CIP:** Design was shifted from FY 2020 to FY 2021. Construction was shifted from FY 2020 to FY 2022.

**2017-2021 CIP:** Project shifted from FY 2018 to FY 2021 pending completion of the Parks Master Plan and a reprioritization of parks projects.

**2016-2020 CIP:** Project schedule moved forward by one year based on review of staff workload and resources.

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Capital Improvement Fund	46,570	676,065	483,817	211,669	0	0	0	0	211,669	0	742,056
<b>Total</b>	<b>\$46,570</b>	<b>\$676,065</b>	<b>\$483,817</b>	<b>\$211,669</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$211,669</b>	<b>\$0</b>	<b>\$742,056</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Construction	0	676,065	483,817	211,669	0	0	0	0	211,669	0	695,486
Design	46,569	0	0	0	0	0	0	0	0	0	46,569
<b>Total</b>	<b>\$46,569</b>	<b>\$676,065</b>	<b>\$483,817</b>	<b>\$211,669</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$211,669</b>	<b>\$0</b>	<b>\$742,055</b>

## Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

### Relationship to Comprehensive Plan Primary Connection

Element: Community Services & Facilities  
Section: Maintenance of Parks and Community Facilities  
Goal: C-3  
Policy: C-3.3

### Potential Board/Commission Review:

Parks and Recreation Commission  
Planning and Transportation Commission

### Environmental Impact Analysis:

This project is expected to have a possible exemption from CEQA under Section 15301.

## CAPITAL IMPROVEMENT FUND



**Fund:** Capital Improvement Fund  
**Category:** Parks and Open Space  
**Project Location:** 3100 Stockton Place  
**Managing Department:** Community Services  
**IBRC Reference:** Keep-up  
**Initial Project Start:** Summer 2018  
**Initial Project Completion:** Winter 2018  
**Revised Project Start:** Summer 2027  
**Revised Project Completion:** Summer 2029  
**Project Number:** PG-14003

Seale Park, February 2015

# Seale Park Improvements

## Description

This project provides funding for upgrades and renovations for safety and accessibility improvements at Seale Park. The project will replace existing park amenities, picnic tables, and playground structures including a playhouse and swings; refinish the playground perimeter fencing; and repair damaged decomposed granite and concrete pathways. Turf restoration and irrigation renovations will also be included as well as replacement of bollards at the park entrances, the park sign, and a small stone wall located in the middle of the park.

## Justification

As park infrastructure ages, safety and compliance issues need to be addressed. This project will ensure compliance and address accessibility needs as well as safety issues. Drainage issues will be resolved with repairs to the damaged pathways. Irrigation renovations and turf restoration is required where existing areas are damaged or dead.

## Significant Changes

**2025-2029 CIP:** Project shifted from FY 2026 to FY 2028 due to a reprioritization of parks projects and funding increased by approximately \$0.3 million due to cost escalation for a total project cost of \$1.0 million.

**2024-2028 CIP:** Project shifted from FY 2025 to FY 2026 due to a reprioritization of parks projects and funding increased by approximately \$0.2 million due to cost escalation for a total project cost of \$0.7 million.

**2021-2025 CIP:** Project shifted from FY 2021 to FY 2025 due to a reprioritization of parks projects.

**2018-2022 CIP:** Project shifted from FY 2020 to FY 2021 due to a reprioritization of parks projects.

**2017-2021 CIP:** Project shifted from FY 2018 to FY 2020 pending completion of the Parks Master Plan and a reprioritization of parks projects.

# CAPITAL IMPROVEMENT FUND

**2016-2020 CIP:** Based on the Infrastructure Blue Ribbon Committee (IBRC) keep-up schedule for the park, replacement of the playground structure has been added to the project’s scope with an additional budget allocation of \$209,000.

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Capital Improvement Fund</b>	0	0	0	0	0	0	148,143	888,084	1,036,227	0	1,036,227
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$148,143</b>	<b>\$888,084</b>	<b>\$1,036,227</b>	<b>\$0</b>	<b>\$1,036,227</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Construction</b>	0	0	0	0	0	0	0	888,084	888,084	0	888,084
<b>Design</b>	0	0	0	0	0	0	148,143	0	148,143	0	148,143
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$148,143</b>	<b>\$888,084</b>	<b>\$1,036,227</b>	<b>\$0</b>	<b>\$1,036,227</b>

## Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

Relationship to Comprehensive Plan Primary Connection	Relationship to Comprehensive Plan Secondary Connection	Potential Board/Commission Review:
Element: Community Services & Facilities Section: Maintenance of Parks and Community Facilities Goal: C-3 Policy: C-3.3 Program: C3.3.1	Element: Community Services & Facilities Section: Maintenance of Parks and Community Facilities Goal: C-3 Policy: C-3.2 Program: C3.2.1	Parks and Recreation Commission Planning and Transportation Commission
<b>Environmental Impact Analysis:</b> This project is expected to have a possible exemption from CEQA under Section 15301.		

# CAPITAL IMPROVEMENT FUND



**Fund:** Capital Improvement Fund  
**Category:** Parks and Open Space  
**Project Location:** Stanford Palo Alto Community Playing Fields  
**Managing Department:** Community Services  
**IBRC Reference:** New  
**Initial Project Start:** Spring 2025  
**Initial Project Completion:** Summer 2025  
**Revised Project Start:** N/A  
**Revised Project Completion:** N/A  
**Project Number:** PG-26000

Stanford Palo Alto Community Turf Field

## Stanford Palo Alto Community Playing Fields Turf Replacement

### Description

The project provides funding for replacement of synthetic turf at the Stanford Palo Alto Community Playing Fields.

### Justification

The Stanford Palo Alto Community Playing Fields accommodate year round play, including additional evening play with some temporary lighting. Since the turf was installed in 2016, it has been in high demand and is used by youth and adult leagues as well as walk-on play. Synthetic turf has a typical lifespan of approximately eight to ten years with each year of use contributing to gradual wear and tear resulting in loss of pile height, turf fiber, and infill.

### Significant Changes

**2025-2029 CIP:** Funding increased by approximately \$0.5 million due revised cost estimates for a total project cost of \$2.7 million.

### Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Capital Improvement Fund	0	0	0	2,707,547	0	0	0	0	2,707,547	0	2,707,547
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$2,707,547</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$2,707,547</b>	<b>\$0</b>	<b>\$2,707,547</b>

# CAPITAL IMPROVEMENT FUND

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Construction</b>	0	0	0	2,531,383	0	0	0	0	2,531,383	0	2,531,383
<b>Design</b>	0	0	0	176,164	0	0	0	0	176,164	0	176,164
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$2,707,547</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$2,707,547</b>	<b>\$0</b>	<b>\$2,707,547</b>

### Operating Impact

This project is anticipated to require maintenance and repair which is planned to be a service contract during the first eight years to coincide with the warranty period. The cost of the service contract is to be determined and an augmentation to the annual operating budget.

<p><b>Relationship to Comprehensive Plan</b>  <b>Primary Connection</b></p> <p>Element: Community Services &amp; Facilities                  Section: Maintenance of Parks and Community Facilities                  Goal: C-3                  Policy: C-3.2</p> <p><b>Environmental Impact Analysis:</b>                  Possible exemption from CEQA under Section 15301</p>	<p><b>Potential Board/Commission Review:</b></p> <p>Parks and Recreation Commission                  Planning and Transportation Commission</p>
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# CAPITAL IMPROVEMENT FUND



Werry Playground, March 2017

**Fund:** Capital Improvement Fund  
**Category:** Parks and Open Space  
**Project Location:** 2100 Dartmouth Street between College and Stanford Avenues  
**Managing Department:** Community Services  
**IBRC Reference:** Keep-up  
**Initial Project Start:** Fall 2021  
**Initial Project Completion:** Spring 2022  
**Revised Project Start:** Fall 2025  
**Revised Project Completion:** Spring 2026  
**Project Number:** PG-22000

## Werry Park Playground Improvements

### Description

This project provides funding for the replacement and ADA upgrades of the existing playground. The benches, tables, trash receptacles, bicycle rack and drinking fountain have reached the end of their useful life and need replacement as well. Perimeter landscaping will be replaced as part of this project.

### Justification

Built in 2002, the existing playground equipment has reached its use expectancy with limited accessibility. As park infrastructure ages, safety and compliance issues need to be addressed. This project will ensure compliance and address accessibility needs as well as safety issues.

### Significant Changes

**2024-2028 CIP:** Project shifted from FY 2024 to FY 2026 due to a reprioritization of parks projects and funding increased by approximately \$0.2 million due to cost escalation for a total project cost of \$0.4 million.

**2022-2026 CIP:** Project shifted from FY 2022 to FY 2024 due to a reprioritization of parks projects.

### Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Capital Improvement Fund	0	0	0	0	393,188	0	0	0	393,188	0	393,188
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$393,188</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$393,188</b>	<b>\$0</b>	<b>\$393,188</b>

# CAPITAL IMPROVEMENT FUND

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Construction</b>	0	0	0	0	381,954	0	0	0	381,954	0	381,954
<b>Design</b>	0	0	0	0	11,233	0	0	0	11,233	0	11,233
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$393,187</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$393,187</b>	<b>\$0</b>	<b>\$393,187</b>

### Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

Relationship to Comprehensive Plan Primary Connection	Relationship to Comprehensive Plan Secondary Connection	Potential Board/Commission Review:
Element: Community Services & Facilities Section: Maintenance of Parks and Community Facilities Goal: C-3 Policy: C-3.3 Program: C3.3.1	Element: Community Services & Facilities Section: Maintenance of Parks and Community Facilities Goal: C-3 Policy: C-3.2 Program: C3.2.1	Parks and Recreation Commission Planning and Transportation Commission
<b>Environmental Impact Analysis:</b> This project is expected to have possible exemption from CEQA under Section 15301		



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## Streets and Sidewalks



**Fund:** Capital Improvement Fund  
**Category:** Streets and Sidewalks  
**Project Location:** California Avenue District  
**Managing Department:** Public Works  
**IBRC Reference:** New  
**Initial Project Start:** Summer 2016  
**Initial Project Completion:** Spring 2017  
**Revised Project Start:** Fall 2017  
**Revised Project Completion:** Fall 2025  
**Project Number:** PE-17004

### California Avenue Business District Gateway

# California Avenue District Gateway Signs

## Description

This project provides funding for design and construction of two gateway monument signs in the California Avenue District. The signs are located in the public right-of-way at the intersection of El Camino Real and California Avenue, and on the Birch Street Exit Ramp off of Oregon Expressway.

## Justification

The existing gateway sign on the Birch Street Exit Ramp is failing and the other gateway sign near El Camino Real is of a dated design. The signage design is an important factor in branding the newly improved California Avenue area.

## Significant Changes

**2025-2029 CIP:** Project completion has been extended and funds have been reappropriated to FY 2025 to coordinate sign replacement with the California Avenue Streetscape Update project (PL-23000).

**2024-2028 CIP:** Project completion has been extended and funds have been reappropriated to FY 2024 to coordinate sign replacement with the California Avenue Streetscape Update project (PL-23000).

**2020-2024 CIP:** Project completion has been extended due to staffing constraints.

**2019-2023 CIP:** Anticipated project completion date adjusted to reflect time needed for the Architectural Review Board (ARB) process.

**2018-2022 CIP:** Project schedule adjusted to reflect initial funding availability. Possible Public Art Commission review added due to proximity of existing public art to one of the sign locations.

**2017-2021 CIP:** Project established.

# CAPITAL IMPROVEMENT FUND

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Capital Improvement Fund	(123,058)	123,382	0	135,846	0	0	0	0	135,846	0	12,788
Transfer from California Ave Parking Permit Fund	150,000	0	0	0	0	0	0	0	0	0	150,000
<b>Total</b>	<b>\$26,942</b>	<b>\$123,382</b>	<b>\$0</b>	<b>\$135,846</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$135,846</b>	<b>\$0</b>	<b>\$162,788</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Construction	2,028	123,382	0	135,846	0	0	0	0	135,846	0	137,874
Design	24,909	0	0	0	0	0	0	0	0	0	24,909
<b>Total</b>	<b>\$26,937</b>	<b>\$123,382</b>	<b>\$0</b>	<b>\$135,846</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$135,846</b>	<b>\$0</b>	<b>\$162,783</b>

### Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

#### Relationship to Comprehensive Plan Primary Connection

Element: Land Use and Community  
Design  
Section: Public Streets and Public Spaces  
Goal: L-9  
Policy: L-9.10

#### Potential Board/Commission Review:

Planning and Transportation  
Commission  
Architectural Review Board

#### Environmental Impact Analysis:

This project is expected to have a possible exemption from CEQA under Section 15301.



Laguna Avenue Bridge

**Fund:** Capital Improvement Fund  
**Category:** Streets and Sidewalks  
**Project Location:** Various  
**Managing Department:** Public Works  
**IBRC Reference:** Keep-up  
**Initial Project Start:** Recurring  
**Initial Project Completion:** Recurring  
**Revised Project Start:** N/A  
**Revised Project Completion:** N/A  
**Project Number:** PE-20001

# City Bridge Improvements

## Description

There are 180 bridge and culvert structures owned and maintained by the City. Of these, Caltrans inspects 31 structures and the City is responsible for inspecting the remaining 149 structures. These structures are located in the public right-of-way and in parks and preserves. A structural consulting firm inspected 50 City-owned bridges and culverts and completed an assessment study in 2017, after which a recurring bridge inspection and repair program was established. This program includes ongoing inspections to report physical changes to structures, recommendations for work to be done, and additional information to meet functional and structural standards in accordance with industry standards. Typically, the recommended recurring inspection frequency of the structures varies from two to four years depending on age and structural conditions, and estimates are developed at a conceptual level and adjusted in the design phase. As part of the recurring bridge inspection and repair program, 25 of the 50 structures inspected in FY 2017 were prioritized by staff and inspected by a structural firm in FY 2022; six bridge structures of the 25 structures inspected were identified for repairs in FY 2023.

## Justification

This project will allow bridges maintained by the City to meet functional and structural standards in accordance with industry standards.

## Supplemental Information

Estimates are provided to maintain up-to-date inventory of bridges and culverts owned by the City, continue recurring inspections and assessments, and implement recommended repairs.

# CAPITAL IMPROVEMENT FUND

## Significant Changes

**2025-2029 CIP:** Funding increased to \$2.6 million over the five-year CIP as a result of funding being reappropriated from FY 2024 to complete work on the emergency repairs to the north bank of San Francisquito Creek (Report # 2308-1935). This is a joint project between the Peninsula Corridor Joint Powers Board (JPB/Caltrain), the City of Menlo Park, and Palo Alto.

**2024-2028 CIP:** Funding has been reduced to \$2.0 million over the 5-year CIP as part of a balancing strategy to address competing infrastructure needs across the City.

**2023-2027 CIP:** Funding has been increased by approximately \$1.3 million to \$2.2 million over the 5-year CIP to address increased needs for maintenance, repairs, and improvements to bridges around the City.

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Capital Improvement Fund	N/A	1,911,543	770,931	1,624,686	337,018	253,400	198,797	188,975	2,602,876	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$1,911,543</b>	<b>\$770,931</b>	<b>\$1,624,686</b>	<b>\$337,018</b>	<b>\$253,400</b>	<b>\$198,797</b>	<b>\$188,975</b>	<b>\$2,602,876</b>	<b>\$0</b>	<b>N/A</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Construction	N/A	1,792,923	652,310	1,531,098	224,679	168,933	113,598	188,975	2,227,283	0	N/A
Design	N/A	118,620	118,620	93,587	112,339	84,467	85,198	0	375,591	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$1,911,543</b>	<b>\$770,930</b>	<b>\$1,624,685</b>	<b>\$337,018</b>	<b>\$253,400</b>	<b>\$198,796</b>	<b>\$188,975</b>	<b>\$2,602,874</b>	<b>\$0</b>	<b>N/A</b>

## Operating Impact

This project may impact operating expenses for parks, public services, and stormwater management in the future as the bridges are assessed, and maintenance and repair costs are determined. As these costs are quantified, adjustments will be brought forward in future budgets as necessary.

Relationship to Comprehensive Plan Primary Connection	Relationship to Comprehensive Plan Secondary Connection	Potential Board/Commission Review:
Element: Land Use and Community Design Section: Public Streets and Public Spaces Goal: L-9 Policy: L-9.10	Element: Community Services & Facilities Section: Maintenance of Parks and Community Facilities Goal: C-3 Policy: C-3.2	Planning and Transportation Commission Architectural Review Board
<b>Environmental Impact Analysis:</b> This project is expected to have a possible exemption from CEQA under Section 15301.		

## CAPITAL IMPROVEMENT FUND



**Fund:** Capital Improvement Fund

**Category:** Streets and Sidewalks

**Project Location:** Various

**Managing Department:** Public Works

**IBRC Reference:** Keep-up

**Initial Project Start:** Recurring

**Initial Project Completion:** Recurring

**Revised Project Start:** N/A

**Revised Project Completion:** N/A

**Project Number:** PO-12001

Byron Street (1200 Block), January 2013

# Curb and Gutter Repairs

## Description

This project provides funding to repair curbs and gutters that have been uplifted by tree roots, and allows for the installation of valley gutters in the Barron Park neighborhood to address ponding and poor drainage.

## Justification

Ponding related to curb and gutter problems is a health hazard. Standing water can be a breeding ground for mosquitoes and encourage algae growth, becoming a hazard for bicyclists and pedestrians. The annual street maintenance project does not address these problems on small isolated sections of curb and gutter found on streets with good road surfaces.

## Significant Changes

**2025-2029 CIP:** Additional funding in the amount of \$200,000 for FY 2029 to continue installing valley gutters as needed in the Barron Park neighborhood in coordination with Street Resurfacing Program work occurring in Barron Park.

**2020-2024 CIP:** Additional funding in the amount of \$150,000 for FY 2020 to continue installing valley gutters as needed in the Barron Park neighborhood in coordination with Street Resurfacing Program work occurring in Barron Park.

**2018-2022 CIP:** Additional funding in the amount of \$250,000 for FY 2018 to install valley gutters as needed in the Barron Park neighborhood in coordination with Street Resurfacing Program work occurring in Barron Park.

# CAPITAL IMPROVEMENT FUND

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Capital Improvement Fund	N/A	241,020	241,019	114,506	121,326	126,137	141,998	204,298	708,265	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$241,020</b>	<b>\$241,019</b>	<b>\$114,506</b>	<b>\$121,326</b>	<b>\$126,137</b>	<b>\$141,998</b>	<b>\$204,298</b>	<b>\$708,265</b>	<b>\$0</b>	<b>N/A</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Construction	N/A	241,020	241,019	114,506	121,326	126,137	141,998	204,298	708,265	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$241,020</b>	<b>\$241,019</b>	<b>\$114,506</b>	<b>\$121,326</b>	<b>\$126,137</b>	<b>\$141,998</b>	<b>\$204,298</b>	<b>\$708,265</b>	<b>\$0</b>	<b>N/A</b>

### Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

#### Relationship to Comprehensive Plan Primary Connection

Element: Land Use and Community Design  
Section: Public Streets and Public Spaces  
Goal: L-9  
Policy: L-9.10

#### Potential Board/Commission Review:

Planning and Transportation Commission  
Architectural Review Board

#### Environmental Impact Analysis:

This project is expected to have a possible exemption from CEQA under Section 15301.





**Fund:** Capital Improvement Fund  
**Category:** Streets and Sidewalks  
**Project Location:** Newell Rd at San Francisquito Creek  
**Managing Department:** Public Works  
**IBRC Reference:** New  
**Initial Project Start:** Spring 2012  
**Initial Project Completion:** Spring 2015  
**Revised Project Start:** Winter 2022  
**Revised Project Completion:** Fall 2026  
**Project Number:** PE-12011

Newell Road Bridge, February 2015

# Newell Road/San Francisquito Creek Bridge Replacement

## Description

This project will provide funding to remove and replace the Newell Road bridge over San Francisquito Creek. Design considerations include a clear span over the creek to allow the channel to convey a flow consistent with the San Francisquito Creek Joint Powers Authority's (JPA) initial flood protection project located downstream, as well as accommodate bicycle and pedestrian traffic.

## Justification

The existing bridge, constructed in 1911, restricts the flow of San Francisquito Creek as its abutments encroach into the channel. Removal of the existing bridge is a necessary element of the JPA's comprehensive flood management program. Additionally, the existing bridge does not have accommodations for pedestrians or cyclists.

Due to community concerns regarding traffic and the visual impacts of a replacement bridge, the scope of the project was expanded to include a California Environmental Quality Act (CEQA) Environmental Impact Report/NEPA Environmental Assessment (EIR/EA) process that evaluated multiple project alternatives and addressed flood control, traffic, aesthetics, and other potential impacts of the project. The EIR was certified and the project was approved in June 2020. In 2021, a Bridge Type Selection report was submitted and approved by Caltrans. In 2022, the project team advanced the design, specifications and cost estimate and reinitiated coordination with the private property owners where temporary construction easements are needed. In 2023, Appraisal Reports were prepared for the easement agreements needed to complete the project. These were reviewed by staff and Caltrans and submitted to the owners. The project team is working with property owners to execute these agreements. Staff continues to coordinate with Caltrans to increase funding for right-of-way appraisal and acquisition and construction phases, as well as coordinate with JPA on permitting with regulatory agencies, which is expected to be completed in spring 2024.



## Supplemental Information

Staff has secured grant funding from the Caltrans Highway Bridge Program (HBP) for the design and environmental assessment/permitting of the project. HBP funds will likely be approved to pay for 88.5% of project construction costs. As the bridge links to East Palo Alto and is part of the JPA’s comprehensive flood management plan, staff from all three agencies will coordinate closely on the design and public outreach elements of this project.

## Significant Changes

**2024-2028 CIP:** The project completion has been updated to Fall 2025 due to delays in starting construction, and the project funding now includes full estimated costs of approximately \$23.2 million. This cost is partially offset by a \$2.0 million State earmark grant awarded in 2022.

**2023-2027 CIP:** This project is now included with the San Francisquito Creek JPA’s regulatory permitting application for the Reach 2 flood protection project. Project construction is scheduled to start in 2023.

**2022-2026 CIP:** State funding has been approved for construction and project funding has been aligned accordingly, including a \$125,000 increase for regulatory permits. Staff will explore amending the agreement with Caltrans and Valley Water to include the permitting fees.

**2021-2025 CIP:** The design and construction cost increases include additional scope of work for street conformances, wall along adjacent properties, utility replacement and relocation, tree removal, landscape and in-creek restoration.

**2020-2024 CIP:** The project completion date has been revised to Winter 2022. This delay is a result of changes to Caltrans environmental assessment format and comments provided by others regarding the Draft Environmental Impact Report.

**2017-2021 CIP:** The project completion date has been extended to Fall 2018 to account for the expanded environmental analysis and project permitting requirements.

**2016-2020 CIP:** Construction funding moved to FY 2017 to reflect delays in securing State funding for environmental work. Timeline extended to reflect project duration through construction phase.

**2015-2020 CIP:** Construction funding moved to FY 2016 to reflect the time needed to complete the additional CEQA work.

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Capital Improvement Fund</b>	1,781,074	7,882,226	3,665,991	5,733,252	0	0	0	0	5,733,252	0	11,180,317
<b>Revenue from Other Agencies</b>	418,588	0	0	0	0	0	0	0	0	0	418,588
<b>Revenue from the Federal Government</b>	8,630	0	0	0	0	0	0	0	0	0	8,630

# CAPITAL IMPROVEMENT FUND

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Revenue from the State of California	594,710	10,254,437	454,437	10,800,000	0	0	0	0	10,800,000	0	11,849,147
<b>Total</b>	<b>\$2,803,002</b>	<b>\$18,136,663</b>	<b>\$4,120,428</b>	<b>\$16,533,252</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$16,533,252</b>	<b>\$0</b>	<b>\$23,456,682</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Construction	858,667	17,991,486	3,975,251	16,533,252	0	0	0	0	16,533,252	0	21,367,170
Design	1,944,324	145,176	145,176	0	0	0	0	0	0	0	2,089,500
<b>Total</b>	<b>\$2,802,991</b>	<b>\$18,136,662</b>	<b>\$4,120,427</b>	<b>\$16,533,252</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$16,533,252</b>	<b>\$0</b>	<b>\$23,456,670</b>

### Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

Relationship to Comprehensive Plan Primary Connection	Relationship to Comprehensive Plan Secondary Connection	Potential Board/Commission Review:
Element: Safety Section: Natural Hazards Goal: S-2 Policy: S-2.8 Program: S2.8.4	Element: Community Services & Facilities Section: Maintenance of Parks and Community Facilities Goal: C-3 Policy: C-3.2	Historic Resources Board Planning and Transportation Commission Architectural Review Board
<b>Environmental Impact Analysis:</b> An Environmental Impact Report and CEQA/NEPA analysis was completed for this project.		



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**Fund:** Capital Improvement Fund  
**Category:** Streets and Sidewalks  
**Managing Department:** Public Works  
**Initial Project Start:** Recurring  
**Initial Project Completion:** Recurring  
**Revised Project Start:** N/A  
**Revised Project Completion:** N/A  
**Project Number:** PE-22000

San Francisquito Creek at Pope Chaucer Bridge, February 2017

# San Francisquito Creek Joint Powers Authority Ongoing Creek Projects

## Description

This project provides funding for studies and completion of the San Francisquito Creek Joint Powers Authority (SFCJPA) upstream project, including channel widening and the Continuing Authority Program Section 205 (CAP 205) study. Completion of the CAP 205 study will make the channel widening components eligible for federal funding and will help fund the construction of the upstream project and address elements of the SFCJPA's comprehensive flood management program.

## Justification

The City is a contributing member of the SFCJPA and its support, along with equal contributions from four other agencies, including the City of East Palo Alto, the City of Menlo Park, the San Mateo County Flooding and Sea Level Resiliency District, and the Santa Clara Valley Water District (Valley Water), is used to complete projects that protect residents from flooding that could occur if San Francisquito Creek were to overtop.

## Significant Changes

**2025-2029 CIP:** The 2022 New Year's Eve storm event brought to light concerns that the creek may not be able to convey the assumed flows. A redesign is being done and additional funding in the amount of \$100,000 in FY 2025 is needed to complete the permitting and the Environmental Impact Report (EIR) as part of the Reach 2 projects.

**2023-2027 CIP:** Funding has increased by \$0.4 million to \$0.7 million over the 5-year CIP due to member contribution increases for all members of the JPA.

**2022-2026 CIP:** Project established during FY 2022.

# CAPITAL IMPROVEMENT FUND

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Capital Improvement Fund	N/A	119,374	119,373	220,205	129,190	129,514	130,637	255,372	864,918	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$119,374</b>	<b>\$119,373</b>	<b>\$220,205</b>	<b>\$129,190</b>	<b>\$129,514</b>	<b>\$130,637</b>	<b>\$255,372</b>	<b>\$864,918</b>	<b>\$0</b>	<b>N/A</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Construction	N/A	119,374	119,373	220,205	129,190	129,514	130,637	255,372	864,918	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$119,374</b>	<b>\$119,373</b>	<b>\$220,205</b>	<b>\$129,190</b>	<b>\$129,514</b>	<b>\$130,637</b>	<b>\$255,372</b>	<b>\$864,918</b>	<b>\$0</b>	<b>N/A</b>

### Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

Relationship to Comprehensive Plan Primary Connection	Relationship to Comprehensive Plan Secondary Connection	Potential Board/Commission Review:
Element: Safety Section: Natural Hazards Goal: S-2 Policy: S-2.8 Program: S2.8.4	Element: Community Services & Facilities Section: Maintenance of Parks and Community Facilities Goal: C-3 Policy: C-3.2	Planning and Transportation Commission San Francisquito Creek Joint Powers Authority Architectural Review Board
<b>Environmental Impact Analysis:</b> An EIR and was completed for the downstream and upstream projects. A supplemental EIR may be required to address the creek's capacity and unforeseen improvements as a result of the flooding.		

## CAPITAL IMPROVEMENT FUND



**Fund:** Capital Improvement Fund

**Category:** Streets and Sidewalks

**Project Location:** Various

**Managing Department:** Public Works

**IBRC Reference:** Keep-up

**Initial Project Start:** Recurring

**Initial Project Completion:** Recurring

**Revised Project Start:** N/A

**Revised Project Completion:** N/A

**Project Number:** PO-89003

Middlefield Road (1500 Block), January 2013

# Sidewalk Repairs

## Description

This project provides funding for sidewalk repairs as part of an annual district-based rehabilitation program, alleviating the backlog of sidewalk repairs and enhancing pedestrian comfort and safety. Additionally, a sidewalk program assessment to evaluate options for improving the City's Sidewalk Repair Program was completed in Spring 2019 and provided suggestions for establishing goals and priorities related to repairs and replacements throughout the City.

## Justification

The result of this project is better sidewalk conditions and a potential reduction in sidewalk-related injuries.

## Supplemental Information

There are 23 sidewalk districts throughout the City. The district program began in 1986 with the goal of completing work in all 23 districts within 30 years. Work for all 23 districts was completed in early 2017 and the sidewalk program assessment was completed in 2019. The district program started again in 2024 with the goal of completing work in all 23 districts within 30 years.

## Significant Changes

**2024-2028 CIP:** Funding of \$0.6 million from the Utility Users Tax Fund is now budgeted directly in the project whereas it had previously been allocated to the project at the fund level as part of the General Fund Base Transfer to the Capital Improvement Fund. \$0.5 million from a Community Development Block Grant (CDBG) has been added for an Americans with Disabilities Act (ADA) ramp project (Report #2302-0991).

**2023-2027 CIP:** Funding has been restored to resume work that aligns with pre-pandemic maintenance schedules, thus the 5-year CIP has increased by \$1.7 million to \$8.9 million.

## CAPITAL IMPROVEMENT FUND

**2021-2025 CIP:** Funding was reduced for FY 2021 and FY 2022 by approximately \$2.0 million over the five-year CIP as part of the FY 2021 Capital Improvement Program budget strategy. Remaining funding will be used to perform emergency maintenance and spot repairs.

**2018-2022 CIP:** Funding for this project has been reduced by \$0.5 million per year pending completion of the assessment study.

### Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Capital Improvement Fund</b>	N/A	1,616,250	1,476,859	984,805	862,664	983,461	1,103,976	1,238,683	5,173,589	0	N/A
<b>Transfer from CDBG Fund</b>	N/A	511,673	511,673	0	0	0	0	0	0	0	N/A
<b>Transfer from Utility Users Tax Fund</b>	N/A	600,000	600,000	600,000	600,000	600,000	600,000	600,000	3,000,000	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$2,727,923</b>	<b>\$2,588,532</b>	<b>\$1,584,805</b>	<b>\$1,462,664</b>	<b>\$1,583,461</b>	<b>\$1,703,976</b>	<b>\$1,838,683</b>	<b>\$8,173,589</b>	<b>\$0</b>	<b>N/A</b>

### Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Construction</b>	N/A	2,727,923	2,588,532	1,584,805	1,462,664	1,583,461	1,703,976	1,838,683	8,173,589	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$2,727,923</b>	<b>\$2,588,532</b>	<b>\$1,584,805</b>	<b>\$1,462,664</b>	<b>\$1,583,461</b>	<b>\$1,703,976</b>	<b>\$1,838,683</b>	<b>\$8,173,589</b>	<b>\$0</b>	<b>N/A</b>

### Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

**Relationship to Comprehensive Plan  
Primary Connection**

Element: Community Services & Facilities  
Section: Maintenance of Parks and Community Facilities  
Goal: C-3  
Policy: C-3.2

**Potential Board/Commission Review:**

Parks and Recreation Commission  
Planning and Transportation Commission

**Environmental Impact Analysis:**

This project is expected to have a possible exemption from CEQA under Section 15301.

# CAPITAL IMPROVEMENT FUND



**Fund:** Capital Improvement Fund  
**Category:** Streets and Sidewalks  
**Project Location:** Various  
**Managing Department:** Public Works  
**IBRC Reference:** Keep-up  
**Initial Project Start:** Recurring  
**Initial Project Completion:** Recurring  
**Revised Project Start:** N/A  
**Revised Project Completion:** N/A  
**Project Number:** PO-11000

Traffic sign, April 2015

## Sign Reflectivity Upgrade

### Description

This project provides funding for inventorying, upgrading, and maintaining all traffic signs owned by the City in order to comply with federal requirements for sign reflectivity standards.

### Justification

The Federal Highway Administration (FHWA) passed regulations requiring minimum retroreflectivity levels for traffic signs, and those regulations require regular annual sign inspections and replacement of signs not meeting minimum retroreflectivity standards.

### Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Capital Improvement Fund	N/A	81,330	25,292	55,052	56,169	56,311	56,799	51,074	275,405	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$81,330</b>	<b>\$25,292</b>	<b>\$55,052</b>	<b>\$56,169</b>	<b>\$56,311</b>	<b>\$56,799</b>	<b>\$51,074</b>	<b>\$275,405</b>	<b>\$0</b>	<b>N/A</b>

### Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Construction	N/A	81,330	25,292	55,052	56,169	56,311	56,799	51,074	275,405	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$81,330</b>	<b>\$25,292</b>	<b>\$55,052</b>	<b>\$56,169</b>	<b>\$56,311</b>	<b>\$56,799</b>	<b>\$51,074</b>	<b>\$275,405</b>	<b>\$0</b>	<b>N/A</b>



**Operating Impact**

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

<b>Relationship to Comprehensive Plan Primary Connection</b>	<b>Potential Board/Commission Review:</b>
Element: Land Use and Community Design Section: Public Streets and Public Spaces Goal: L-9 Policy: L-9.10	Planning and Transportation Commission
<b>Environmental Impact Analysis:</b>	
This project is expected to have a possible exemption from CEQA under Section 15301.	



**Fund:** Capital Improvement Fund

**Category:** Streets and Sidewalks

**Project Location:** Various

**Managing Department:** Public Works

**IBRC Reference:** N/A

**Initial Project Start:** Summer 2012

**Initial Project Completion:** Spring 2013

**Revised Project Start:** Summer 2024

**Revised Project Completion:** Summer 2025

**Project Number:** PE-13014

Streetlight, Guinda Street, November 2014

# Street Lights Condition Assessment

## Description

This project provides funding to assess the condition of the streetlight system. The assessment will include an inventory of the entire lighting system, including age and condition of conduit, wiring, street light poles, foundations, luminaires, and lighting coverage. Determining the inspection, maintenance, repair, and rehabilitation necessary to prolong the life of the City's streetlight system is also included in this project.

## Justification

There are over 6,000 streetlights in Palo Alto. In some areas, existing conduit is over 40 years old and in such poor condition that repairs are no longer possible. Streetlight systems are integral as they afford safe routes for motorists and pedestrians. An assessment is needed to evaluate the age and condition of each element of the streetlight system in order to plan cost-effective maintenance and replacement programs for the future.

## Supplemental Information

The Infrastructure Blue Ribbon Commission recommended that a streetlight system assessment be conducted to determine the condition of and replacement program for the City's streetlight infrastructure. The assessment will also consider appropriate recommendations for streetlights determined to be historic or in neighborhoods with unique streetlights.

## Significant Changes

**2025-2029 CIP:** This project has been delayed to FY 2025 due to staffing constraints.

**2024-2028 CIP:** This project has been delayed to FY 2024 due to staffing constraints.

**2021-2025 CIP:** This project has been delayed to FY 2023 due to staffing and budgetary priorities.

**2020-2024 CIP:** Due to other high priority projects, this project has been delayed until Summer 2019.

# CAPITAL IMPROVEMENT FUND

**2019-2023 CIP:** Due to other high priority projects, this project has been delayed until Spring 2018.

**2018-2022 CIP:** Due to other high priority projects, this project has been delayed until Summer 2017.

**2017-2021 CIP:** Due to other high priority projects, initiation of this project has been delayed until Spring 2016.

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Capital Improvement Fund	8,798	243,286	23,286	242,225	0	0	0	0	242,225	0	274,309
<b>Total</b>	<b>\$8,798</b>	<b>\$243,286</b>	<b>\$23,286</b>	<b>\$242,225</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$242,225</b>	<b>\$0</b>	<b>\$274,309</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Design	8,798	243,286	23,286	242,225	0	0	0	0	242,225	0	274,309
<b>Total</b>	<b>\$8,798</b>	<b>\$243,286</b>	<b>\$23,286</b>	<b>\$242,225</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$242,225</b>	<b>\$0</b>	<b>\$274,309</b>

### Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

**Relationship to Comprehensive Plan  
Primary Connection**

Element: Land Use and Community Design  
Section: Public Streets and Public Spaces  
Goal: L-9  
Policy: L-9.3

**Potential Board/Commission Review:**

Planning and Transportation Commission

**Environmental Impact Analysis:**

This project is expected to have a possible exemption from CEQA under Section 15301.

## CAPITAL IMPROVEMENT FUND



East Bayshore Road street lights, February 2015

**Fund:** Capital Improvement Fund

**Category:** Streets and Sidewalks

**Project Location:** Various

**Managing Department:** Public Works

**IBRC Reference:** Keep-up

**Initial Project Start:** Recurring

**Initial Project Completion:** Recurring

**Revised Project Start:** N/A

**Revised Project Completion:** N/A

**Project Number:** PO-05054

# Street Lights Improvements

## Description

This project provides funding to replace street light poles, pole foundations, luminaires, and wiring as needed to restore or improve street lighting.

## Justification

There are over 6,000 street lights in Palo Alto. In some areas, existing concrete or cast iron street light poles are failing and no longer serviceable. Additionally, poles damaged due to accidents must be replaced immediately. Luminaires are replaced to improve lighting levels and therefore safety. The Electric Fund maintains the poles, luminaires, and circuits of street lights, and installs new street lights as requested by the Public Works Department.

## Supplemental Information

The Street Lights Condition Assessment project (PE-13014) is expected to be completed in 2024 and will result in recommendations for replacement of street lights. Where desired, efforts to match existing streetlight design will be made.

## Significant Changes

**2025-2029 CIP:** New funding has been removed in FY 2025 as part of a balancing strategy to address competing infrastructure needs across the City. Funding is recommended to be reappropriated from FY 2024 into FY 2025 to address emergency replacement needs.

**2024-2028 CIP:** Funding added in FY 2028 is less than annual funding in FY 2023-2027 because the earlier years include costs for work resulting from prior postponement.

# CAPITAL IMPROVEMENT FUND

**2023-2027 CIP:** Funding was increased by approximately \$0.2 million annually in FY 2023 and FY 2024 for work that can no longer be postponed. This includes substructure work for foundation repair and replacement, pole replacement, and painting. Construction expenses were increased annually beginning in FY 2025 to account for cost escalation. All together, funding over the 5-year CIP was increased by \$0.9 million to \$1.9 million.

**2021-2025 CIP:** Funding was reduced as part of the FY 2021 Capital Improvement Program budget strategy. Available funding will be used to perform emergency maintenance and repairs as needed.

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Capital Improvement Fund	N/A	547,646	180,695	404,022	303,317	316,467	170,397	153,223	1,347,426	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$547,646</b>	<b>\$180,695</b>	<b>\$404,022</b>	<b>\$303,317</b>	<b>\$316,467</b>	<b>\$170,397</b>	<b>\$153,223</b>	<b>\$1,347,426</b>	<b>\$0</b>	<b>N/A</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Construction	N/A	547,646	180,695	404,022	303,317	316,467	170,397	153,223	1,347,426	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$547,646</b>	<b>\$180,695</b>	<b>\$404,022</b>	<b>\$303,317</b>	<b>\$316,467</b>	<b>\$170,397</b>	<b>\$153,223</b>	<b>\$1,347,426</b>	<b>\$0</b>	<b>N/A</b>

## Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

### Relationship to Comprehensive Plan Primary Connection

Element: Land Use and Community Design  
Section: Public Streets and Public Spaces  
Goal: L-9  
Policy: L-9.3

### Potential Board/Commission Review:

Planning and Transportation Commission

### Environmental Impact Analysis:

This project is expected to have a possible exemption from CEQA under Section 15301.

## CAPITAL IMPROVEMENT FUND



**Fund:** Capital Improvement Fund

**Category:** Streets and Sidewalks

**Project Location:** Various

**Managing Department:** Public Works

**IBRC Reference:** Keep-up

**Initial Project Start:** Recurring

**Initial Project Completion:** Recurring

**Revised Project Start:** N/A

**Revised Project Completion:** N/A

**Project Number:** PE-86070

Curtner Avenue (300 Block), February 2015

# Street Maintenance

## Description

This project provides funding for annual resurfacing, slurry sealing, crack sealing, and reconstruction of various City streets.

## Justification

The Pavement Maintenance Management System (PMMS) and the Metropolitan Transportation Agency's StreetSaver software are used to identify streets requiring maintenance, based on the biennial Pavement Condition Index (PCI) survey of all City streets. The City Council established the goal of achieving an average city-wide PCI of 85, indicating excellent pavement condition, by 2021, with no street below a PCI of 60. A citywide average PCI of 85 was achieved in December 2018.

## Supplemental Information

Staff is supplementing the City's PMMS with the Metropolitan Transportation Agency's StreetSaver software, whose modeling capabilities will be used to determine future funding levels to continue to work on streets with a PCI below 60 while still maintaining the citywide PCI average of 85.

The list of streets to be included in this project will be prioritized and coordinated with Utilities Department projects and the 2012 Bicycle and Pedestrian Transportation Plan. This project is partially funded by revenues from gas and utility users taxes, and from Santa Clara Valley Transportation Authority's Vehicle Registration Fee Program.

## Significant Changes

**2024-2028 CIP:** Funding of \$0.4 million from the Utility Users Tax Fund is now budgeted directly in the project whereas it had previously been allocated to the project at the fund level as part of the General Fund Base Transfer to the Capital Improvement Fund.

## CAPITAL IMPROVEMENT FUND

**2023-2027 CIP:** Funding has been restored to resume work that aligns with pre-pandemic maintenance schedules, thus the 5-year CIP has increased by \$6.5 million to \$32.5 million.

**2021-2025 CIP:** Funding was reduced for FY 2021 and FY 2022 by approximately \$10.0 million over the five-year CIP as part of the FY 2021 Capital Improvement Program budget strategy. Street resurfacing projects will have reduced scope, limiting the number of streets that can be resurfaced over the next two years.

**2020-2024 CIP:** The \$0.9 million from the San Antonio/W. Bayshore Impact Fee Fund will be moved to the Traffic Signal and Intelligent Transportation Systems project (PL-05053) for traffic signal improvements at San Antonio and Charleston in FY 2020.

**2019-2023 CIP:** FY 2019 costs are offset by One Bay Area Grant (OBAG) Cycle 2 guaranteed funding and San Antonio/W. Bayshore Impact Fee Fund in the amount of \$1.0 million and \$0.9 million, respectively. The impact fee funding will be used to make improvements on the San Antonio/Charleston intersection and repave the San Antonio overpass. Funding increased by \$1.2 million annually from Road Maintenance and Rehabilitation Account (RMRA - S.B.1 funding) from the State of California in FY 2020.

**2018-2022 CIP:** The last phase of work on Alma Street (Rinconada Avenue to Palo Alto Avenue) is postponed until FY 2018 to incorporate additional transportation improvements that are currently in design.

### Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Capital Improvement Fund	N/A	5,693,426	5,547,260	1,438,385	1,598,451	1,834,540	2,160,654	1,677,814	8,709,844	0	N/A
Revenue from Other Agencies	N/A	465,000	465,000	465,000	465,000	465,000	465,000	465,000	2,325,000	0	N/A
Transfer from Gas Tax Fund	N/A	3,061,919	3,061,919	3,205,057	3,205,057	3,205,057	3,205,057	3,205,057	16,025,285	0	N/A
Transfer from Utility Users Tax Fund	N/A	400,000	400,000	400,000	400,000	400,000	400,000	400,000	2,000,000	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$9,620,345</b>	<b>\$9,474,179</b>	<b>\$5,508,442</b>	<b>\$5,668,508</b>	<b>\$5,904,597</b>	<b>\$6,230,711</b>	<b>\$5,747,871</b>	<b>\$29,060,129</b>	<b>\$0</b>	<b>N/A</b>

### Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Construction	N/A	9,565,052	9,418,886	5,451,188	5,607,845	5,841,529	6,162,552	5,747,871	28,810,985	0	N/A
Design	N/A	55,292	55,292	57,253	60,662	63,068	68,159	0	249,142	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$9,620,344</b>	<b>\$9,474,178</b>	<b>\$5,508,441</b>	<b>\$5,668,507</b>	<b>\$5,904,597</b>	<b>\$6,230,711</b>	<b>\$5,747,871</b>	<b>\$29,060,127</b>	<b>\$0</b>	<b>N/A</b>

### Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

# CAPITAL IMPROVEMENT FUND

**Relationship to Comprehensive Plan  
Primary Connection**

Element: Community Services &  
Facilities  
Section: Maintenance of Parks and  
Community Facilities  
Goal: C-3  
Policy: C-3.2

**Potential Board/Commission Review:**

Planning and Transportation  
Commission  
Architectural Review Board

**Environmental Impact Analysis:**

This project is expected to have a possible exemption from CEQA under Section 15301.





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# CAPITAL IMPROVEMENT FUND



**Fund:** Capital Improvement Fund  
**Category:** Streets and Sidewalks  
**Project Location:** Various  
**Managing Department:** Public Works  
**IBRC Reference:** Keep-up  
**Initial Project Start:** Recurring  
**Initial Project Completion:** Recurring  
**Revised Project Start:** N/A  
**Revised Project Completion:** N/A  
**Project Number:** PO-11001

Park and Oxford lane lines, February 2015

## Thermoplastic Lane Marking and Striping

### Description

This project provides funding for thermoplastic pavement markings on paved roadways to provide guidance and information to motorists, bicyclists, and pedestrians. By 2010, most pavement markings had been converted from paint to thermoplastic. While thermoplastic is a durable, long lasting pavement marking, most streets will require a second or third application of thermoplastic during the pavement’s useful lifespan.

### Justification

Upgrading all street painting to thermoplastic has improved roadway safety for motorists, pedestrians, and bicyclists as the reflectivity and durability of thermoplastic exceeds that of paint.

### Supplemental Information

As of Fiscal Year 2025 this project has been updated to include funding and scope for protected bike facilities maintenance and repair projects annually. The annual funding for these projects will be used to maintain and repair green bicycle lane striping; and to install and maintain bollards, signage, and lane lines.

### Significant Changes

**2025-2029 CIP:** Ongoing funding added for protected bike facilities projects annually.

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Capital Improvement Fund	N/A	235,939	104,314	137,628	140,423	140,776	141,997	127,686	688,510	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$235,939</b>	<b>\$104,314</b>	<b>\$137,628</b>	<b>\$140,423</b>	<b>\$140,776</b>	<b>\$141,997</b>	<b>\$127,686</b>	<b>\$688,510</b>	<b>\$0</b>	<b>N/A</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Construction</b>	N/A	235,939	104,314	137,628	140,423	140,776	141,997	127,686	688,510	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$235,939</b>	<b>\$104,314</b>	<b>\$137,628</b>	<b>\$140,423</b>	<b>\$140,776</b>	<b>\$141,997</b>	<b>\$127,686</b>	<b>\$688,510</b>	<b>\$0</b>	<b>N/A</b>

### Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

<p><b>Relationship to Comprehensive Plan</b>  <b>Primary Connection</b>                  Element: Land Use and Community Design                  Section: Public Streets and Public Spaces                  Goal: L-9                  Policy: L-9.10</p>	<p><b>Potential Board/Commission Review:</b>                  Planning and Transportation Commission</p>
<p><b>Environmental Impact Analysis:</b>                  This project is expected to have a possible exemption from CEQA under Section 15301.</p>	



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# Traffic and Transportation



**Fund:** Capital Improvement Fund  
**Category:** Traffic and Transportation  
**Managing Department:** Office of Transportation  
**Initial Project Start:** Summer 2025  
**Initial Project Completion:** Fall 2027  
**Revised Project Start:** N/A  
**Revised Project Completion:** N/A  
**Project Number:** PL-25002

Intersection of Alma Street and Charleston Road, April 2023

# Charleston Road/Alma Street Railroad Crossing Safety Improvements

## Description

The California Department of Transportation, in cooperation with the Peninsula Corridor Joint Power Board (JPB) and the City of Palo Alto, proposed a railroad crossing improvement project at Charleston Road and Alma Street to enhance traffic safety. This crossing was identified for possible funding of hazard elimination and safety improvements through Section 130 funds. The Section 130 program is a federally-funded program, administered at the state level, for the elimination of hazards at at-grade highway-rail crossings. Section 130 funding will reimburse the actual and direct costs of the design and construction of the improvements. This project is separate and independent from the on-going rail grade separation projects and addresses more immediate safety concerns at this crossing.

Design may include, but is not limited to, traffic signal modifications, street lighting improvements, roadway resurfacing, sidewalk realignment and/or widening, drainage improvements, utility re-locations, signage and striping, and way-finding improvements.

## Justification

The railroad crossing at Alma Street and Charleston Road experiences a large volume of pedestrian and bicycle traffic during the morning and afternoon school commute hours. The existing sidewalk and roadway intersection is near capacity when accommodating the large number of pedestrians and bicyclists using this intersection. Potential widening of the sidewalk and bicycle lane improvements would help. In addition, east-bound motorists often queue within the train crossing envelope due to the small storage space. Installation of a pre-signal would better keep motorists outside of the dynamic envelope. JPB and the City will be responsible for the construction of the improvements within each respective agency's right of way.

# CAPITAL IMPROVEMENT FUND

## Significant Changes

**2025-2029 CIP:** Project design will begin in FY 2025

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Capital Improvement Fund	0	0	0	48,805	84,207	0	0	0	133,012	0	133,012
Revenue from the Federal Government	0	0	0	483,100	682,400	0	0	0	1,165,500	0	1,165,500
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$531,905</b>	<b>\$766,607</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,298,512</b>	<b>\$0</b>	<b>\$1,298,512</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Construction	0	0	0	0	766,607	0	0	0	766,607	0	766,607
Design	0	0	0	531,905	0	0	0	0	531,905	0	531,905
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$531,905</b>	<b>\$766,607</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,298,512</b>	<b>\$0</b>	<b>\$1,298,512</b>

## Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

### Relationship to Comprehensive Plan Primary Connection

Element: Transportation  
Section: Road Safety  
Goal: T-6  
Policy: T-6.1  
Program: T6.1.4

### Potential Board/Commission Review:

Planning and Transportation  
Commission

### Environmental Impact Analysis:

Environmental Review Required

## CAPITAL IMPROVEMENT FUND



**Fund:** Capital Improvement Fund

**Category:** Traffic and Transportation

**Project Location:** Various

**Managing Department:** Office of Transportation

**IBRC Reference:** New

**Initial Project Start:** Recurring

**Initial Project Completion:** Recurring

**Revised Project Start:** N/A

**Revised Project Completion:** N/A

**Project Number:** PL-04010

Upgraded bike lanes on Charleston Road, an important school route

# Bicycle and Pedestrian Transportation Plan Implementation

## Description

This project provides funding for the design and construction of bicycle boulevards, enhanced bikeways, shared-use paths, bicycle parking, and pedestrian improvements in accordance with the Palo Alto Bicycle and Pedestrian Transportation Plan, which was adopted by City Council in 2012.

## Justification

Projects identified in the Palo Alto Bicycle and Pedestrian Transportation Plan, as well as bicycle parking facilities and bicycle/pedestrian project planning activities, will facilitate safer, traffic calmed biking and walking routes and provide better commute alternatives.

## Supplemental Information

Staff is in the process of updating the Bicycle and Pedestrian Transportation Plan and it is anticipated to be completed by December of 2025. Pending the plan updates and Council approval, improvements may include widened sidewalks, roundabouts, a bicycle boulevard, and other traffic calming devices.

## Significant Changes

**2025-2029 CIP:** \$1.3 million of funding is being reappropriated in FY 2025 to the Churchill Enhanced Bikeway Project (PL-14000) for construction. In addition, staff plans to begin work on a railroad crossing safety study (\$0.6 million) and to commence construction on bicycle and pedestrian facility enhancements between Alma St. and Embarcadero Rd. (\$2.2 million) in FY 2025. Funding in FY 2026 of \$0.9 million will be used as contingency for both tasks.

**2024-2028 CIP:** \$0.3 million of Transportation Development Act (TDA) Article III funding added to FY 2024 to complete the new Bicycle and Pedestrian Transportation Plan. Budgeting for future years will be determined approximately 3-4 years after the new plan's completion.



## CAPITAL IMPROVEMENT FUND

**2022-2026 CIP:** On May 17th, 2021, the City Council approved the Pedestrian and Bicycle Advisory Committee (PABAC)'s recommendation to utilize Transportation Development Act (TDA) Article III funding of up to \$0.3 million for the Bicycle and Pedestrian Transportation Plan update. Additionally, \$1.5 million initially planned in FY 2022 in this project was approved by the City Council to be transferred to the Charleston/Arastradero Corridor Project (PE-13011), please see the Significant Changes for 2021-2026 CIP in the Charleston/Arastradero Corridor project pages for further details.

**2021-2025 CIP:** Funding for this project spread to FY 2024 due to funding constraints as well as to allow time for further planning related to implementing a citywide bicycle and pedestrian plan. Starting FY 2021, \$1.0 million dollars is reduced from the project budget each fiscal year through FY 2024 for a total reduction of \$4.0 million dollars.

**2020-2024 CIP:** The Neighborhood Traffic Safety and Bicycle Boulevards Project - Phase 1 has been partially implemented. The rest of Phase 1 of the project has been paused for additional review and evaluation. Upon direction to move forward, the project will resume with increased community engagement. The schedule for the initiation of Phase 2 will be determined at a later date.

### Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Capital Improvement Fund</b>	N/A	5,510,857	433,857	2,900,000	877,000	0	0	0	3,777,000	0	N/A
<b>Revenue from Other Agencies</b>	N/A	334,852	334,852	0	0	0	0	0	0	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$5,845,709</b>	<b>\$768,709</b>	<b>\$2,900,000</b>	<b>\$877,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$3,777,000</b>	<b>\$0</b>	<b>N/A</b>

### Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Construction</b>	N/A	5,481,220	404,220	2,900,000	877,000	0	0	0	3,777,000	0	N/A
<b>Design</b>	N/A	364,489	364,489	0	0	0	0	0	0	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$5,845,709</b>	<b>\$768,709</b>	<b>\$2,900,000</b>	<b>\$877,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$3,777,000</b>	<b>\$0</b>	<b>N/A</b>

### Operating Impact

This project is anticipated to impact operating expenses in the future. As these costs are quantified, adjustments will be brought forward in future budgets, as necessary. Increased operating impacts due to ongoing maintenance of protected and separate bikeways is funded in the Thermoplastic Lane Marking and Striping project (PO-11001). Certain types of bikeways may require special equipment or services to maintain them.

# CAPITAL IMPROVEMENT FUND

<b>Relationship to Comprehensive Plan Primary Connection</b>	<b>Relationship to Comprehensive Plan Secondary Connection</b>	<b>Potential Board/Commission Review:</b>
Element: Transportation Section: Sustainable Transportation Goal: T-1 Policy: T-1.19 Program: T1.19.2	Element: Transportation Section: Streets Goal: T-3 Policy: T-3-5 Program: T3.5.1	Planning and Transportation Commission
<b>Environmental Impact Analysis:</b> This project is expected to have a possible exemption from CEQA under Section 15301.		



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**Fund:** Capital Improvement Fund  
**Category:** Traffic and Transportation  
**Project Location:** El Camino Real & Churchill Avenue  
**Managing Department:** Office of Transportation  
**IBRC Reference:** New  
**Initial Project Start:** Fall 2013  
**Initial Project Completion:** Fall 2015  
**Revised Project Start:** Summer 2019  
**Revised Project Completion:** Summer 2025  
**Project Number:** PL-14000

Bicyclists on Churchill Ave, December 2015

# Churchill Avenue Enhanced Bikeway

## Description

This project provides funding for the planning, design and construction of a shared-use path along the north side of Churchill Avenue between the existing shared-use path at Castilleja Avenue and the Stanford Perimeter Trail. It also includes intersection improvements at Churchill Avenue and El Camino Real, which will include a new dedicated westbound right-turn lane.

## Justification

As a priority project within the Palo Alto Bicycle and Pedestrian Transportation Plan, this project advances objective three (3), which develops a core network of shared paths, bikeways, and traffic-calmed streets that connect residential districts, schools, and parks. This project also proposes safety improvements at the Churchill Avenue and El Camino Real intersection.

## Significant Changes

**2025-2029 CIP:** The construction phase is scheduled to begin in FY 2025. Due to construction cost escalation, an additional \$1.3 million has been reappropriated from the Bike and Pedestrian Implementation Plan project (PL-04010) to ensure that the project has sufficient funding. It is anticipated that construction will take one year to complete.

**2024-2028 CIP:** The design phase was completed in Spring 2023 and tentative construction start is slated for Fall 2023.

**2023-2027 CIP:** Staff continue to seek a Memorandum of Understanding between the City and Palo Alto Unified School District (PAUSD) for the easement needs required for the project. Once the easement documents are finalized, staff will complete the design. The construction phase is anticipated to start with the Request for Proposal (RFP) process in Winter 2022.

# CAPITAL IMPROVEMENT FUND

**2022-2026 CIP:** Staff is seeking the necessary easement from the PAUSD in May 2021. Following this, completion of the design phase is anticipated by June of 2021, and staff will initiate a RFP as part of the construction phase of the project.

**2020-2024 CIP:** Project delays occurred mainly due to additional time needed for easement acquisitions. The project timeline has been adjusted to reflect those changes as well as allowing for more time for enhanced community engagement and Caltrans review.

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Capital Improvement Fund</b>	(620,774)	3,104,248	3,104,248	1,431,332	0	0	0	0	1,431,332	0	3,914,806
<b>Transfer from Traffic Impact Fee Fund</b>	1,000,000	0	0	0	0	0	0	0	0	0	1,000,000
<b>Total</b>	<b>\$379,226</b>	<b>\$3,104,248</b>	<b>\$3,104,248</b>	<b>\$1,431,332</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,431,332</b>	<b>\$0</b>	<b>\$4,914,806</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Construction</b>	323,655	3,103,175	3,103,175	1,431,332	0	0	0	0	1,431,332	0	4,858,162
<b>Design</b>	55,567	1,072	1,072	0	0	0	0	0	0	0	56,639
<b>Total</b>	<b>\$379,222</b>	<b>\$3,104,247</b>	<b>\$3,104,247</b>	<b>\$1,431,332</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,431,332</b>	<b>\$0</b>	<b>\$4,914,801</b>

## Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

Relationship to Comprehensive Plan Primary Connection	Relationship to Comprehensive Plan Secondary Connection	Potential Board/Commission Review:
Element: Transportation Section: Road Safety Goal: T-6 Policy: T-6.1	Element: Transportation Section: Sustainable Transportation Goal: T-1 Policy: T-1.19	Planning and Transportation Commission
<b>Environmental Impact Analysis:</b> This project is expected to have a possible exemption from CEQA under Section 15301.		

## CAPITAL IMPROVEMENT FUND



**Fund:** Capital Improvement Fund  
**Category:** Traffic and Transportation  
**Project Location:** Meadow Drive and Charleston Rd Rail Crossings  
**Managing Department:** Office of Transportation  
**IBRC Reference:** New  
**Initial Project Start:** Fall 2023  
**Initial Project Completion:** Spring 2028  
**Revised Project Start:** N/A  
**Revised Project Completion:** N/A  
**Project Number:** PL-24001

Caltrain Crossing at Churchill Avenue, January 2023

# Churchill Avenue Rail Grade Separation and Safety Improvements

## Description

This project provides for the planning, design, and construction of the grade separation at the existing at-grade crossing on Churchill Avenue in the Caltrain Rail Corridor. The project will provide improvements to accommodate bicycles, pedestrians, and vehicular movement at the crossing. In 2021, the City Council selected partial underpass as the preferred alternative, with closure as a backup alternative.

## Justification

Traffic congestion is expected to increase at crossings along the railroad corridor as Caltrain begins to run electric trains on a more frequent schedule and implement its 2040 Business Plan. In addition to Caltrain, California High Speed Rail (CAHSR) will also be using the same corridor, further impacting traffic at crossings. To address safety, mobility, and environmental concerns resulting from the increased traffic, the City Council has prioritized rail grade separations at multiple crossings along the corridor as part of the Connecting Palo Alto Project.

The Churchill Avenue rail grade crossing was one of four crossings initially identified in the Railroad Grade Separation and Safety Improvements project (PL-17001). To effectively target and track different funding sources for the various crossings as they progress, the crossings have been separated into distinct capital projects, with the Churchill Avenue crossing contained in this project.

## Supplemental Information

Previously, the Santa Clara Valley Transit Authority's (VTA) Measure B Local Streets and Roads funds paid for planning costs associated with conceptual plans and alternative development for Connecting Palo Alto rail grade separations along the Caltrain Corridor (\$3.3 million for all crossings as of October 2022). Currently, VTA has an agreement to provide \$0.2 million of Measure B Grade Separation funding for additional studies at the

# CAPITAL IMPROVEMENT FUND

Churchill Avenue crossing. In addition, VTA has committed to provide \$5.0 million of Measure B Grade Separation funding to support the preliminary engineering and environmental planning phase of the project. The City will need to provide 10% local matching funds to support these efforts.

To cover the total project costs, the City continues to seek additional funding from federal, state, and regional grants. The project estimates are based on preliminary cost estimates for the partial underpass alternative prepared by consultants during the conceptual design phase. These costs will be updated when more accurate information is available.

## Significant Changes

**2024-2028 CIP:** Project established in FY 2024. VTA Measure B Grade Separation funds committed for preliminary engineering and environmental phase of project. Recently-approved Measure K funds (Local Business Tax-Palo Alto) will cover local match and other costs related to preliminary engineering and environmental studies.

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Capital Improvement Fund</b>	0	842,115	842,115	1,103,588	1,850,981	1,893,260	2,039,765	2,939,929	9,827,523	0	10,669,638
<b>Revenue from Other Agencies</b>	0	3,000,000	3,000,000	2,000,000	14,000,000	14,000,000	14,000,000	135,800,000	179,800,000	0	182,800,000
<b>Transfer from General Fund</b>	0	322,500	322,500	750,000	1,000,000	1,000,000	1,000,000	1,000,000	4,750,000	0	5,072,500
<b>Total</b>	<b>\$0</b>	<b>\$4,164,615</b>	<b>\$4,164,615</b>	<b>\$3,853,588</b>	<b>\$16,850,981</b>	<b>\$16,893,260</b>	<b>\$17,039,765</b>	<b>\$139,739,929</b>	<b>\$194,377,523</b>	<b>\$0</b>	<b>\$198,542,138</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Construction</b>	0	4,164,615	0	0	0	0	0	130,240,066	130,240,066	0	130,240,066
<b>Design</b>	0	0	4,164,615	3,853,588	16,850,981	16,893,260	17,039,765	9,499,863	64,137,457	0	68,302,072
<b>Total</b>	<b>\$0</b>	<b>\$4,164,615</b>	<b>\$4,164,615</b>	<b>\$3,853,588</b>	<b>\$16,850,981</b>	<b>\$16,893,260</b>	<b>\$17,039,765</b>	<b>\$139,739,929</b>	<b>\$194,377,523</b>	<b>\$0</b>	<b>\$198,542,138</b>

## Operating Impact

Operating impacts will depend upon the grade separation alternative that is implemented. As these costs are quantified, adjustments will be brought forward in future budget cycles.

# CAPITAL IMPROVEMENT FUND

**Relationship to Comprehensive Plan  
Primary Connection**

Element: Transportation  
Section: Streets  
Goal: T-3  
Policy: T-3-15  
Program: T3.15.1

**Potential Board/Commission Review:**

Planning and Transportation  
Commission  
Architectural Review Board

**Environmental Impact Analysis:**

This project includes the completion of the necessary environmental analysis.





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## CAPITAL IMPROVEMENT FUND



**Fund:** Capital Improvement Fund  
**Category:** Traffic and Transportation  
**Project Location:** Churchill Avenue and Alma Street  
**Managing Department:** Office of Transportation  
**IBRC Reference:** N/A  
**Initial Project Start:** Fall 2019  
**Initial Project Completion:** Summer 2021  
**Revised Project Start:** N/A  
**Revised Project Completion:** Winter 2027  
**Project Number:** PL-20000

Churchill Avenue/Alma Street Railroad Crossing Safety Improvements: photo taken September 2018

# Churchill Avenue/Alma Street Railroad Crossing Safety Improvements

## Description

This project provides funding for the design and construction of pedestrian and bicycle safety improvements west of the Churchill Avenue and Alma Street intersection, as well as at the Charleston Road and Alma Street intersection, at the railroad at-grade crossings. Design includes, but is not limited to, traffic signal modifications, street lighting improvements, roadway resurfacing, sidewalk realignment and/or widening, drainage improvements, utility re-locations, signage and striping, and way-finding improvements.

## Justification

The rail crossing at Churchill Avenue/Alma Street experiences a large amount of bicycle traffic for Palo Alto High School and Stanford University. It is difficult for the existing sidewalk and roadway intersection to accommodate the large number of pedestrians using this intersection. Capital improvements will help move all users including bicyclists and pedestrians safely through the crossing.

Hazards identified at the Charleston Road/Alma Street rail crossing include motorists making turn movements onto the tracks and motorists queueing in the track area or fouling the track while stopped at the intersection. Capital improvements will reduce the chance of future train and vehicle collisions.

## Supplemental Information

This project was formerly included in the Railroad Grade Separation and Safety Improvements project (PL-17001). However, it was separated in FY 2020 to track the different funding sources for safety improvements at Churchill Avenue/Alma Street. This crossing was identified through Federal Section 130 funds, a federally-funded program administered by the State, for increasing safety at "at-grade" highway-rail crossings. All construction and design costs are fully reimbursable by Section 130 funding from Caltrans.

# CAPITAL IMPROVEMENT FUND

In FY 2023, an additional Section 130-funded rail crossing improvement project was identified at Charleston Road/Alma Street. The Charleston Avenue project will be initiated with a feasibility evaluation and recommendation in FY 2024.

## Significant Changes

**2024-2028 CIP:** The Churchill Avenue/Alma Street design phase is complete and construction is scheduled to begin in FY 2024. Funding of approximately \$4.6 million has been added for the Charleston Road/Alma Street crossing which has completed project initiation with the Joint Powers Board (JPB), and a funding agreement with Caltrans is being drafted.

**2023-2027 CIP:** The design plans are complete. The City is in the process of receiving the necessary approvals from the California Public Utilities Commission (CPUC) and the Joint Powers Board (JPB). Staff anticipates initiating the procurement process for the project's construction phase in Winter 2022. The project is estimated to be completed in Winter 2024.

**2022-2026 CIP:** The conceptual design and design phase of the project is nearing completion in FY 2021. Construction is anticipated to start in FY 2022.

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Capital Improvement Fund	71,499	666,035	666,035	59,762	171,671	175,594	0	0	407,027	0	1,144,561
Revenue from Other Agencies	3,975	4,456,356	4,456,356	591,550	1,391,200	1,391,200	0	0	3,373,950	0	7,834,281
Revenue from the Federal Government	33,699	0	0	0	0	0	0	0	0	0	33,699
Revenue from the State of California	230,732	0	0	0	0	0	0	0	0	0	230,732
<b>Total</b>	<b>\$339,905</b>	<b>\$5,122,391</b>	<b>\$5,122,391</b>	<b>\$651,312</b>	<b>\$1,562,871</b>	<b>\$1,566,794</b>	<b>\$0</b>	<b>\$0</b>	<b>\$3,780,977</b>	<b>\$0</b>	<b>\$9,243,273</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Construction	168,490	4,393,212	4,393,212	0	1,562,871	1,566,794	0	0	3,129,665	0	7,691,367
Design	171,413	729,179	729,179	651,312	0	0	0	0	651,312	0	1,551,904
<b>Total</b>	<b>\$339,903</b>	<b>\$5,122,391</b>	<b>\$5,122,391</b>	<b>\$651,312</b>	<b>\$1,562,871</b>	<b>\$1,566,794</b>	<b>\$0</b>	<b>\$0</b>	<b>\$3,780,977</b>	<b>\$0</b>	<b>\$9,243,271</b>

## Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

# CAPITAL IMPROVEMENT FUND

**Relationship to Comprehensive Plan  
Primary Connection**

Element: Transportation  
Section: Road Safety  
Goal: T-6  
Policy: T-6.1  
Program: T6.1.4

**Potential Board/Commission Review:**

Planning and Transportation  
Commission  
Architectural Review Board

**Environmental Impact Analysis:**

This project requires Environmental Impact Review



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## CAPITAL IMPROVEMENT FUND



**Fund:** Capital Improvement Fund

**Category:** Traffic and Transportation

**Project Location:** Downtown

**Managing Department:** Office of Transportation

**IBRC Reference:** New

**Initial Project Start:** Summer 2015

**Initial Project Completion:** Summer 2020

**Revised Project Start:** N/A

**Revised Project Completion:** Winter 2024

**Project Number:** PL-15002

### Parking Facility Management System

# Downtown Automated Parking Guidance Systems, Access Controls & Revenue

## Description

This project provides funding to address infrastructure and capital improvements for parking facilities (Alma St., Bryant St., and Cowper/Webster garages). This project includes design and installation of new downtown parking guidance systems, access controls, and revenue collection equipment.

## Justification

This project is identified in the City's Comprehensive Plan as a means to reduce congestion, minimize air quality impacts from motorists, and provide live occupancy counts of open parking spaces.

## Supplemental Information

This Infrastructure Plan project facilitates parking congestion mitigation in downtown.

## Significant Changes

**2024-2028 CIP:** Vendor for design/build RFP chosen and contract approved by Council (Report #2303-1185). Project commenced in Summer 2023.

**2023-2027 CIP:** A new Design/Build RFP will be issued in Summer 2022.

**2022-2026 CIP:** Bids for the APGS were received in winter of 2020 and project will go into construction in FY 2022.

**2021-2025 CIP:** Due to workload capacity constraints, this project was not started in FY 2020 and will now be done solely in FY 2021.

**2020-2024 CIP:** This project was delayed as part of the work to develop a more comprehensive downtown parking plan and is now scheduled to go out to bid in the summer of 2020. Implementation will span Fiscal Years 2020 and 2021.

# CAPITAL IMPROVEMENT FUND

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Capital Improvement Fund	437,915	4,759,916	4,696,388	63,528	0	0	0	0	63,528	0	5,197,831
<b>Total</b>	<b>\$437,915</b>	<b>\$4,759,916</b>	<b>\$4,696,388</b>	<b>\$63,528</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$63,528</b>	<b>\$0</b>	<b>\$5,197,831</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Construction	189,182	4,759,916	4,696,388	63,528	0	0	0	0	63,528	0	4,949,098
Design	248,729	0	0	0	0	0	0	0	0	0	248,729
<b>Total</b>	<b>\$437,911</b>	<b>\$4,759,916</b>	<b>\$4,696,388</b>	<b>\$63,528</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$63,528</b>	<b>\$0</b>	<b>\$5,197,827</b>

### Operating Impact

The ongoing operating costs for cameras and other equipment is unknown at this time; however, as these costs are quantified, adjustments will be brought forward in the next budget cycle.

#### Relationship to Comprehensive Plan Primary Connection

Element: Transportation  
 Section: Motor Vehicle and Bicycle  
 Parking  
 Goal: T-5  
 Policy: T-5.2  
 Program: T5.2.1

#### Potential Board/Commission Review:

Planning and Transportation  
 Commission

#### Environmental Impact Analysis:

This project is expected to have a possible exemption from CEQA under Section 15302.

## CAPITAL IMPROVEMENT FUND



Caltrain Crossing at Meadow Drive, January 2023

**Fund:** Capital Improvement Fund  
**Category:** Traffic and Transportation  
**Project Location:** Meadow Drive and Charleston Rd Rail Crossings  
**Managing Department:** Office of Transportation  
**IBRC Reference:** New  
**Initial Project Start:** Fall 2023  
**Initial Project Completion:** Spring 2028  
**Revised Project Start:** N/A  
**Revised Project Completion:** N/A  
**Project Number:** PL-24000

# Meadow Drive and Charleston Road Rail Grade Separation and Safety Improvements

## Description

This project provides for the planning, design, and construction of the grade separations at the existing at-grade crossings on Meadow Drive and Charleston Road in the Caltrain Rail Corridor. The project will provide improvements to accommodate bicycles, pedestrians, and vehicular movement at the crossings. In 2021, the City Council narrowed the alternatives under consideration at these locations to trench, hybrid, and underpass. Currently, the Rail Committee is reviewing these alternatives to further narrow and select the preferred alternative(s) for recommendation to the City Council.

## Justification

Traffic congestion is expected to increase at crossings along the railroad corridor as Caltrain begins to run electric trains on a more frequent schedule and implement its 2040 Business Plan. In addition to Caltrain, California High Speed Rail (CAHSR) will also be using the same corridor, further impacting traffic at crossings. To address safety, mobility, and environmental concerns resulting from the increased traffic, the City Council has prioritized rail grade separations at multiple crossings along the corridor as part of the Connecting Palo Alto Project.

The Meadow Drive and Charleston Road rail grade crossings were two of four crossings initially identified in the Railroad Grade Separation and Safety Improvements project (PL-17001). To effectively target and track different funding sources for the various crossings as they progress, the crossings have been separated into distinct capital projects, with the Meadow Drive and Charleston Road crossings contained in this project.

## Supplemental Information

Previously, the Santa Clara Valley Transit Authority's (VTA) Measure B Local Streets and Roads funds have paid for planning costs associated with conceptual plans and alternative development for Connecting Palo Alto rail



# CAPITAL IMPROVEMENT FUND

grade separations along the Caltrain Corridor (\$3.3 million for all crossings as of October 2022). Currently, VTA has an agreement to provide \$0.8 million for additional studies at the Meadow Drive and Charleston Road crossings. In addition, VTA has committed to provide \$9.0 million of Measure B Grade Separation funding to support the preliminary engineering and environmental planning phase of this project. The City will need to provide 10% local matching funds to support these efforts.

To cover the total project costs, the City continues to seek additional funding from federal, state, and regional grants. The project estimates are based on preliminary cost estimates for the underpass alternative (which has costs in between those of the other two alternatives) prepared by consultants during the conceptual design phase. These costs will be updated when more accurate information is available.

## Significant Changes

**2024-2028 CIP:** Project established in FY 2024. VTA Measure B Grade Separation funds committed for preliminary engineering and environmental phase of project. Recently-approved Measure K funds (Local Business Tax-Palo Alto) will cover local match and other costs related to preliminary engineering and environmental studies.

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Capital Improvement Fund</b>	0	1,192,250	1,192,250	1,356,151	3,701,963	3,786,520	4,079,532	6,045,338	18,969,504	0	20,161,754
<b>Revenue from Other Agencies</b>	0	4,500,000	4,500,000	4,500,000	28,000,000	28,000,000	28,000,000	279,300,000	367,800,000	0	372,300,000
<b>Transfer from General Fund</b>	0	427,500	427,500	750,000	2,000,000	2,000,000	2,000,000	2,000,000	8,750,000	0	9,177,500
<b>Total</b>	<b>\$0</b>	<b>\$6,119,750</b>	<b>\$6,119,750</b>	<b>\$6,606,151</b>	<b>\$33,701,963</b>	<b>\$33,786,520</b>	<b>\$34,079,532</b>	<b>\$287,345,338</b>	<b>\$395,519,504</b>	<b>\$0</b>	<b>\$401,639,254</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Construction</b>	0	0	0	0	0	0	0	241,173,958	241,173,958	0	241,173,958
<b>Design</b>	0	6,119,750	6,119,750	6,606,151	33,701,963	33,786,520	34,079,532	46,171,380	154,345,546	0	160,465,296
<b>Total</b>	<b>\$0</b>	<b>\$6,119,750</b>	<b>\$6,119,750</b>	<b>\$6,606,151</b>	<b>\$33,701,963</b>	<b>\$33,786,520</b>	<b>\$34,079,532</b>	<b>\$287,345,338</b>	<b>\$395,519,504</b>	<b>\$0</b>	<b>\$401,639,254</b>

## Operating Impact

Operating impacts will depend upon the grade separation alternative that is implemented. As these costs are quantified, adjustments will be brought forward in future budget cycles.

# CAPITAL IMPROVEMENT FUND

**Relationship to Comprehensive Plan  
Primary Connection**

Element: Transportation  
Section: Streets  
Goal: T-3  
Policy: T-3-15  
Program: T3.15.1

**Potential Board/Commission Review:**

Planning and Transportation  
Commission  
Architectural Review Board

**Environmental Impact Analysis:**

This project includes the completion of the necessary environmental analysis.



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## CAPITAL IMPROVEMENT FUND



**Fund:** Capital Improvement Fund

**Category:** Traffic and Transportation

**Project Location:** Various

**Managing Department:** Office of Transportation

**IBRC Reference:** New

**Initial Project Start:** Recurring

**Initial Project Completion:** Recurring

**Revised Project Start:** N/A

**Revised Project Completion:** N/A

**Project Number:** PL-15003

Parking Mitigation, March, 2019

# Parking District Implementation

## Description

This project will fund the introduction of additional parking permit programs throughout the city. One aspect of this project is the City Council approved Residential Preferential Parking (RPP) ordinance to establish uniform procedures to implement RPP districts through the process outlined in the Municipal Code 10.50.

## Justification

Implementing parking districts, including RPP, is a parking management strategy that regulates parking where it was previously unregulated. Parking management strategies are critical to maximizing the use of existing parking supply and prioritizing the "right space for the right use" concept. RPP prioritizes parking on residential streets for residents and business who reside within the boundaries of the district.

## Significant Changes

**2024-2029 CIP:** Staff is currently in the procurement process for updating its parking permit technology and will use the reappropriated funding to complete the transition to new systems.

**2024-2028 CIP:** Funds have been reappropriated to complete project tasks from FY 2023, otherwise the project will be on hold in FY 2024 and FY 2025 to re-evaluate the future of parking districts, and the budgets for FY 2026 through FY 2028 are reduced to minimal amounts until re-evaluation has concluded.

**2023-2027 CIP:** Project will commence in FY 2023 after a two (2) year deferral (FY 2021 and FY 2022). Requests for the formation of new Residential Preferential Parking districts are evaluated on annual basis.

**2021-2025 CIP:** Project deferred to FY 2023 and FY 2024 to contribute to cost containment strategies in FY 2021. Title of project changed from Residential Preferential Parking to Parking District Implementation in order to accommodate a broader parking district strategy, and updated to a recurring project in anticipation of implementing future parking districts.

# CAPITAL IMPROVEMENT FUND

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Capital Improvement Fund	N/A	163,900	0	180,457	33,701	33,787	34,079	34,730	316,754	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$163,900</b>	<b>\$0</b>	<b>\$180,457</b>	<b>\$33,701</b>	<b>\$33,787</b>	<b>\$34,079</b>	<b>\$34,730</b>	<b>\$316,754</b>	<b>\$0</b>	<b>N/A</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Construction	N/A	109,300	0	120,342	16,850	16,893	17,039	34,730	205,854	0	N/A
Design	N/A	54,600	0	60,115	16,850	16,893	17,039	0	110,897	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$163,900</b>	<b>\$0</b>	<b>\$180,457</b>	<b>\$33,700</b>	<b>\$33,786</b>	<b>\$34,078</b>	<b>\$34,730</b>	<b>\$316,751</b>	<b>\$0</b>	<b>N/A</b>

### Operating Impact

RPPs and other City parking programs are expected to have operating impacts to maintain the programs. As these costs are quantified, adjustments will be brought forward in the future budget cycles, as necessary.

#### Relationship to Comprehensive Plan Primary Connection

Element: Transportation  
 Section: Motor Vehicle and Bicycle  
 Parking  
 Goal: T-5  
 Policy: T-5.1  
 Program: T5.11.1

#### Potential Board/Commission Review:

Planning and Transportation  
 Commission

#### Environmental Impact Analysis:

This project is expected to have a possible exemption from CEQA under Section 15301.

## CAPITAL IMPROVEMENT FUND



Quarry Road Multi-Use Path, December 2017

**Fund:** Capital Improvement Fund  
**Category:** Traffic and Transportation  
**Project Location:** Quarry Road between El Camino Real and Welch Road  
**Managing Department:** Office of Transportation  
**IBRC Reference:** Catch-up  
**Initial Project Start:** Winter 2016  
**Initial Project Completion:** Spring 2017  
**Revised Project Start:** N/A  
**Revised Project Completion:** Fall 2026  
**Project Number:** PL-16000

# Quarry Road Improvements and Transit Center Access

## Description

This project provides funding for the planning, design, and construction of bicycle and pedestrian improvements along Quarry Road between El Camino Real and Welch Road, including, but not limited to, upgraded bicycle lanes and crosswalks, innovative intersection treatments for bicyclists, and improved access to transit stops.

## Justification

The August 2011 Development Agreement between Stanford Hospitals and Clinics, the Lucille Salter Packard Children's Hospital at Stanford, the Board of Trustees of the Leland Stanford Junior University, and the City of Palo Alto obligated the City to design and construct enhancements of various pedestrian and bicycle connections between the Palo Alto Intermodal Transit Center and the Stanford University Medical Center (SUMC) campus.

The Comprehensive Plan Update 2030 identified the need for a transit, bicycle, and pedestrian linkage between the Palo Alto Transit Center bus depot and the Quarry Road and El Camino Real intersection to improve bus transit connectivity and service efficiency. This could include a connection from the future Everett Avenue area bicycle and pedestrian undercrossing to the now completed Quarry Road improvements.

## Supplemental Information

The initial portion of this project was funded by the Stanford University Medical Center Development Agreement via transfer to the Capital Improvement Fund, and design and construction of the bicycle and pedestrian Transit Center pathway was completed in Summer 2017. The pathway is accented with seating, decorative lighting, and new landscaping. Design and construction was also completed for bicycle and pedestrian improvements along the Quarry Road corridor between El Camino Real and Welch Road.

# CAPITAL IMPROVEMENT FUND

## Significant Changes

**2025-2029 CIP:** Funding for this project was reduced by \$1.5 million to reassess funding needs for this project versus other transportation-related capital improvements.

**2023-2027 CIP:** Stanford University is preparing to seek a ballot measure in 2024 to modify the area to parkland status in order to implement this project.

**2022-2026 CIP:** Funding for this project was reduced by \$3.2 million to align with the original pedestrian and bike path improvement scope of this project, as progress on the transit-way and Everett Avenue portions of the project are on hold while working through grade separation and other legal issues.

**2021-2025 CIP:** Funding for this project spread to FY 2023 due to funding constraints and capital project prioritization.

**2020-2024 CIP:** Project increased by \$1.1 million to account for increased construction costs, and construction moved to FY 2022 to better align the workload with staff availability.

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Capital Improvement Fund	(159,953)	0	0	400,022	0	0	0	0	400,022	0	240,069
Transfer from Stanford University Medical Ctr Fund	1,442,004	0	0	0	0	0	0	0	0	0	1,442,004
<b>Total</b>	<b>\$1,282,051</b>	<b>\$0</b>	<b>\$0</b>	<b>\$400,022</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$400,022</b>	<b>\$0</b>	<b>\$1,682,073</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Construction	1,021,902	0	0	400,022	0	0	0	0	400,022	0	1,421,924
Design	260,144	0	0	0	0	0	0	0	0	0	260,144
<b>Total</b>	<b>\$1,282,046</b>	<b>\$0</b>	<b>\$0</b>	<b>\$400,022</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$400,022</b>	<b>\$0</b>	<b>\$1,682,068</b>

## Operating Impact

Street and landscaping maintenance costs are estimated to increase. As these costs are quantified, adjustments will be brought forward in future budgets, as necessary.

# CAPITAL IMPROVEMENT FUND

**Relationship to Comprehensive Plan  
Primary Connection**

Element: Transportation  
Section: Road Safety  
Goal: T-3  
Policy: T-3-10  
Program: T3.10.4

**Potential Board/Commission Review:**

Planning and Transportation  
Commission  
Architectural Review Board

**Environmental Impact Analysis:**

May Require Environmental Review





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## CAPITAL IMPROVEMENT FUND



**Fund:** Capital Improvement Fund

**Category:** Traffic and Transportation

**Project Location:** Various

**Managing Department:** Office of Transportation

**IBRC Reference:** New

**Initial Project Start:** Summer 2016

**Initial Project Completion:** Summer 2018

**Revised Project Start:** N/A

**Revised Project Completion:** TBD

**Project Number:** PL-17001

Caltrain Crossing at Charleston Road, July 2018

# Railroad Grade Separation and Safety Improvements

## Description

This project provides for the planning, design, and construction of the grade separation at the existing at-grade crossing on Palo Alto Avenue in the Caltrain Rail Corridor. The project will provide improvements to accommodate bicycles, pedestrians, and vehicular movement at the crossing.

## Justification

Traffic congestion is expected to increase at crossings along the railroad corridor as Caltrain begins to run electric trains on a more frequent schedule and implement its 2040 Business Plan. In addition to Caltrain, California High Speed Rail (CAHSR) will also be using the same corridor, further impacting traffic at crossings. To address safety, mobility, and environmental concerns resulting from the increased traffic, the City Council has prioritized rail grade separations at multiple crossings along the corridor as part of the Connecting Palo Alto Project.

The Palo Alto Avenue rail grade crossing was one of four crossings initially identified in this project. To effectively target and track different funding sources for the various crossings as they progress, the crossings have been separated into distinct capital projects, with only the Palo Alto Avenue crossing remaining in this project.

## Supplemental Information

The Palo Alto Avenue grade separation is currently on hold.

## Significant Changes

**2024-2028 CIP:** Project revised in FY 2024 to include only the Palo Alto Avenue crossing which is currently on hold. Grade separations involving the other three crossings have been moved into new capital projects (Meadow Drive and Charleston Road in PL-24000 and Churchill Avenue in PL-24001).

# CAPITAL IMPROVEMENT FUND

**2023-2027 CIP:** Council directed staff to perform additional studies to review geo-technical conditions, refine the underpass/partial underpass alternatives, and to reconvene the Rail Committee and discuss the financial considerations in FY 2023.

**2021-2025 CIP:** Funding of \$1.0 million from the Stanford University Medical Center Fund programmed in this project, spread over Fiscal Years 2021 and 2022. \$1.0 million of Measure B funding shifted to the Street Maintenance Project (PE-86070).

**2020-2024 CIP:** Three new alternatives, Churchill, Meadow, and Charleston, were added in early 2020.

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Capital Improvement Fund	(462,560)	138,319	138,319	101,025	246,797	252,434	135,984	0	736,240	0	411,999
Revenue from Other Agencies	3,323,184	999,999	999,999	1,000,000	2,000,000	2,000,000	1,000,000	0	6,000,000	0	10,323,183
Transfer from Stanford University Medical Ctr Fund	1,000,000	0	0	0	0	0	0	0	0	0	1,000,000
<b>Total</b>	<b>\$3,860,624</b>	<b>\$1,138,318</b>	<b>\$1,138,318</b>	<b>\$1,101,025</b>	<b>\$2,246,797</b>	<b>\$2,252,434</b>	<b>\$1,135,984</b>	<b>\$0</b>	<b>\$6,736,240</b>	<b>\$0</b>	<b>\$11,735,182</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Construction	105,304	105,844	105,844	0	0	0	0	0	0	0	211,148
Design	3,755,316	1,032,475	1,032,475	1,101,025	2,246,797	2,252,434	1,135,984	0	6,736,240	0	11,524,031
<b>Total</b>	<b>\$3,860,620</b>	<b>\$1,138,319</b>	<b>\$1,138,319</b>	<b>\$1,101,025</b>	<b>\$2,246,797</b>	<b>\$2,252,434</b>	<b>\$1,135,984</b>	<b>\$0</b>	<b>\$6,736,240</b>	<b>\$0</b>	<b>\$11,735,179</b>

## Operating Impact

Operating impacts will depend upon the grade separation alternative that is implemented. As these costs are quantified, adjustments will be brought forward in future budget cycles.

### Relationship to Comprehensive Plan Primary Connection

Element: Transportation  
Section: Streets  
Goal: T-3  
Policy: T-3-15  
Program: T3.15.1

### Potential Board/Commission Review:

Planning and Transportation  
Commission  
Architectural Review Board

### Environmental Impact Analysis:

This project includes the completion of the necessary environmental analysis.

## CAPITAL IMPROVEMENT FUND



**Fund:** Capital Improvement Fund  
**Category:** Traffic and Transportation  
**Project Location:** Streets serving students, including "Walk and Roll Routes" for PAUSD Schools  
**Managing Department:** Office of Transportation  
**IBRC Reference:** Keep-up  
**Initial Project Start:** Recurring  
**Initial Project Completion:** Recurring  
**Revised Project Start:** N/A  
**Revised Project Completion:** N/A  
**Project Number:** PL-00026

Fletcher Students Using New Bike Box, April 2018

# Safe Routes To School

## Description

This project provides funding for the City's Safe Routes to Schools program, including school commute planning, education and encouragement activities, and capital improvements along local and collector streets that may be impacted by school commute activities. Typical capital improvements include traffic calming devices, enhanced crosswalks, and improved signage along suggested routes to school.

## Justification

In collaboration with the Palo Alto Unified School District (PAUSD) and Parent Teacher Associations, the City is leading the design and construction of capital improvements for suggested routes to school, helping to reduce risks to students and encouraging more families to use alternatives to driving. This program aligns with the City's sustainability and climate action goals by reducing daily greenhouse gas emissions and supports equity via compulsory programming in the public schools.

## Supplemental Information

Staff continues seeking grant sources to fund South Palo Alto bikeways construction costs.

## Significant Changes

**2023-2027 CIP:** The project maintains funds to design the South Palo Alto Bikeways project, conduct traffic studies, and implement traffic calming and other safety countermeasures on school routes.

**2022-2026 CIP:** Updated school speed limit signage, traffic calming projects from prior years, and traffic studies will be pursued in FY 2022 for locations in need of traffic calming and other safety countermeasures.

# CAPITAL IMPROVEMENT FUND

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Capital Improvement Fund</b>	N/A	957,458	957,458	10,103	15,708	21,407	28,365	2,149	77,732	0	N/A
<b>Transfer from Gas Tax Fund</b>	N/A	100,000	100,000	100,000	100,000	100,000	100,000	100,000	500,000	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$1,057,458</b>	<b>\$1,057,458</b>	<b>\$110,103</b>	<b>\$115,708</b>	<b>\$121,407</b>	<b>\$128,365</b>	<b>\$102,149</b>	<b>\$577,732</b>	<b>\$0</b>	<b>N/A</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Construction</b>	N/A	162,491	162,490	82,577	86,725	90,998	96,558	102,149	459,007	0	N/A
<b>Design</b>	N/A	894,967	894,967	27,526	28,982	30,408	31,806	0	118,722	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$1,057,458</b>	<b>\$1,057,457</b>	<b>\$110,103</b>	<b>\$115,707</b>	<b>\$121,406</b>	<b>\$128,364</b>	<b>\$102,149</b>	<b>\$577,729</b>	<b>\$0</b>	<b>N/A</b>

### Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

Relationship to Comprehensive Plan Primary Connection	Relationship to Comprehensive Plan Secondary Connection	Potential Board/Commission Review:
Element: Transportation Section: Road Safety Goal: T-6 Policy: T-6.4 Program: T6.4.2	Element: Transportation Section: Sustainable Transportation Goal: T-1 Policy: T-1.16	Planning and Transportation Commission
<b>Environmental Impact Analysis:</b> This project is expected to have a possible exemption from CEQA under Section 15301.		

# CAPITAL IMPROVEMENT FUND



**Fund:** Capital Improvement Fund  
**Category:** Traffic and Transportation  
**Project Location:** Various  
**Managing Department:** Office of Transportation  
**Initial Project Start:** Summer 2024  
**Initial Project Completion:** Summer 2025  
**Revised Project Start:** N/A  
**Revised Project Completion:** N/A  
**Project Number:** PL-25001

Intersection at Embarcadero and East Bayshore Road, April 2023

## Traffic Intersection Accessibility Improvement Project

### Description

This project will provide traffic intersection accessibility improvements at four identified locations across the City to enhance traffic congestion relief efforts. These modifications may include the addition of new crosswalks and curb ramps; accessible pedestrian system (APS) push buttons; updating existing 8" traffic signal indication heads to 12"; and video detection for improved operations; and implementation of Automated Traffic Signal Performance Measures (ATSPM) for ongoing data collection and operational/safety analysis.

### Justification

Funding for this project will be provided by 2016 Measure B Local Streets and Roads (LSR) grant funds. Since the City's pavement condition index (PCI) is above 70, the City is eligible to use this funding for traffic congestion relief projects.

### Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Capital Improvement Fund	0	0	0	50,512	0	0	0	0	50,512	0	50,512
Revenue from Other Agencies	0	0	0	500,000	0	0	0	0	500,000	0	500,000
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$550,512</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$550,512</b>	<b>\$0</b>	<b>\$550,512</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Construction</b>	0	0	0	550,512	0	0	0	0	550,512	0	550,512
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$550,512</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$550,512</b>	<b>\$0</b>	<b>\$550,512</b>

### Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

<p><b>Relationship to Comprehensive Plan</b>  <b>Primary Connection</b>                  Element: Transportation                  Section: Traffic Delay and Congestion                  Goal: T-2                  Policy: T-2.1                  Program: T2.1.1</p>	<p><b>Potential Board/Commission Review:</b>                  Planning and Transportation                  Commission</p>
<p><b>Environmental Impact Analysis:</b>                  Environmental Review Required</p>	



## CAPITAL IMPROVEMENT FUND



**Fund:** Capital Improvement Fund  
**Category:** Traffic and Transportation  
**Project Location:** Various  
**Managing Department:** Office of Transportation  
**IBRC Reference:** Keep-up  
**Initial Project Start:** Recurring  
**Initial Project Completion:** Recurring  
**Revised Project Start:** N/A  
**Revised Project Completion:** N/A  
**Project Number:** PL-05030

Installation of new traffic signal equipment at Embarcadero Road and Middlefield Road, April 2018

# Traffic Signal and Intelligent Transportation Systems

## Description

This project provides funding for the design, construction, and upgrades of traffic signals, traffic signal communications networks, signal performance/surveillance projects for transportation use, and upkeep of the City's traffic signal central management system. The project includes the replacement of traffic signal controllers/cabinets, video detection systems, and other field equipment.

## Justification

Traffic signal upgrades are essential for maintaining traffic safety and improving roadway operations including the reduction of roadway congestion with traffic signal re-timing projects. To accomplish this, there is a need to add new traffic signal equipment at locations throughout the city. This project maintains and updates traffic signal cabinet and controller inventory in the field and expands the current central management system to allow for communications to all signalized intersections. The new controllers enable additional traffic signal timing strategies and technologies to improve the operations of the City's traffic signals.

## Supplemental Information

Funding from this project contributes to implementation of detection upgrades, accessible pedestrian buttons, adaptive signal timing, flashing pedestrian beacons, electronic speed feedback signage and emerging Intelligent Transportation Systems (ITS) technologies.

## Significant Changes

**2025-2029 CIP:** In FY 2024 the City was awarded \$0.3 million in Vehicle Registration Fee (VRF) Grant Funding which will be utilized in FY 2025 to fund improvements at 4 intersections along Quarry Rd.

**2024-2028 CIP:** Staff plans to initiate replacement of the centralized traffic management system which was last updated in 2014.



# CAPITAL IMPROVEMENT FUND

**2023-2027 CIP:** \$0.5 million of the \$1.0 million Measure B revenue programmed in FY 2022 for this project will be shifted to the Transportation and Parking Improvements project (PL-12000) in FY 2023. This action increases the range of projects that can be reimbursed by VTA’s Measure B Local Streets and Roads grant to include traffic calming improvements, local traffic studies, and response to 311 requests.

**2020-2024 CIP:** Although anticipated last fiscal year, this project will not include a new signal at Hamilton and Waverly since construction of a new downtown garage at that site is not proceeding at this time. An additional \$900,000 from the San Antonio/West Bayshore Transportation Impact Fund has been added in FY 2020 for traffic signal improvements at San Antonio and E. Charleston.

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Capital Improvement Fund	N/A	106,085	106,084	49,336	60,709	97,521	143,582	14,936	366,084	0	N/A
Revenue from Other Agencies	N/A	1,301,500	1,301,500	550,000	300,000	300,000	300,000	300,000	1,750,000	0	N/A
Transfer from Traffic Impact Fee Fund	N/A	395,000	395,000	395,000	395,000	395,000	395,000	395,000	1,975,000	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$1,802,585</b>	<b>\$1,802,584</b>	<b>\$994,336</b>	<b>\$755,709</b>	<b>\$792,521</b>	<b>\$838,582</b>	<b>\$709,936</b>	<b>\$4,091,084</b>	<b>\$0</b>	<b>N/A</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Construction	N/A	1,696,424	1,696,423	917,705	675,162	708,053	749,181	709,936	3,760,037	0	N/A
Design	N/A	106,161	106,161	76,631	80,547	84,467	89,401	0	331,046	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$1,802,585</b>	<b>\$1,802,584</b>	<b>\$994,336</b>	<b>\$755,709</b>	<b>\$792,520</b>	<b>\$838,582</b>	<b>\$709,936</b>	<b>\$4,091,083</b>	<b>\$0</b>	<b>N/A</b>

## Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

<p><b>Relationship to Comprehensive Plan Primary Connection</b></p> <p>Element: Transportation          Section: Traffic Delay and Congestion          Goal: T-2          Policy: T-2.1          Program: T2.1.1</p>	<p><b>Relationship to Comprehensive Plan Secondary Connection</b></p> <p>Element: Transportation          Section: Streets          Goal: T-3          Policy: T-3-6</p>	<p><b>Potential Board/Commission Review:</b></p> <p>Planning and Transportation Commission</p>
<p><b>Environmental Impact Analysis:</b>          This project is expected to have a possible exemption from CEQA under Section 15302.</p>		

## CAPITAL IMPROVEMENT FUND



**Fund:** Capital Improvement Fund  
**Category:** Traffic and Transportation  
**Project Location:** Various  
**Managing Department:** Office of Transportation  
**IBRC Reference:** Keep-up  
**Initial Project Start:** Recurring  
**Initial Project Completion:** Recurring  
**Revised Project Start:** N/A  
**Revised Project Completion:** N/A  
**Project Number:** PL-12000

**New Crosswalk at Colorado Ave and Sandra Place, June 2018**

# Transportation and Parking Improvements

## Description

This project provides funding for the implementation of traffic safety projects including miscellaneous roadway and neighborhood traffic calming improvements, local traffic studies, response to 311 requests, and parking improvements.

## Justification

Traffic calming is identified as a high priority in the adopted Transportation element of the Comprehensive Plan. Traffic studies and miscellaneous traffic calming improvements help to improve the quality of life for residents and visitors. Throughout the year, staff receives ongoing improvement requests that would be funded through this project.

## Supplemental Information

A few of the recent transportation and parking improvement accomplishments include:

- Evaluated pilot program using citizen surveys: 1) University Avenue and Crescent Park Rectangular Rapid Flashing Beacon (RRFB); 2) Upgrade of Newell and Hopkins RRFB
- Conducted an updated Engineering and Traffic Survey (E&TS) to establish, certify, and set speed limits throughout the City
- Implemented stop signs in the Fulton/Seale neighborhood in accordance with Manual of Uniform Traffic Control Devices and conforming to the City's Traffic Calming Program
- Continued to address Palo Alto 311 service requests submitted by constituents

# CAPITAL IMPROVEMENT FUND

## Significant Changes

**2023-2027 CIP:** \$0.5 million of the \$1.0 million Measure B revenue programmed in FY 2022 for the Traffic Signal and Intelligent Transportation Systems project (PL-05030) project will be shifted to this project in FY 2023. This action increases the range of projects that can be reimbursed by VTA's Measure B Local Streets and Roads grant to include traffic calming improvements, local traffic studies, and response to 311 requests.

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Capital Improvement Fund</b>	N/A	648,943	648,943	442,612	465,198	487,765	516,076	510,745	2,422,396	0	N/A
<b>Revenue from Other Agencies</b>	N/A	733,833	733,833	0	0	0	0	0	0	0	N/A
<b>Revenue from the Federal Government</b>	N/A	160,000	160,000	0	0	0	0	0	0	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$1,542,776</b>	<b>\$1,542,776</b>	<b>\$442,612</b>	<b>\$465,198</b>	<b>\$487,765</b>	<b>\$516,076</b>	<b>\$510,745</b>	<b>\$2,422,396</b>	<b>\$0</b>	<b>N/A</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Construction</b>	N/A	910,472	910,472	29,727	31,230	32,773	34,646	510,745	639,121	0	N/A
<b>Design</b>	N/A	632,304	632,304	412,884	433,968	454,991	481,429	0	1,783,272	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$1,542,776</b>	<b>\$1,542,776</b>	<b>\$442,611</b>	<b>\$465,198</b>	<b>\$487,764</b>	<b>\$516,075</b>	<b>\$510,745</b>	<b>\$2,422,393</b>	<b>\$0</b>	<b>N/A</b>

## Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

Relationship to Comprehensive Plan Primary Connection	Relationship to Comprehensive Plan Secondary Connection	Potential Board/Commission Review:
Element: Transportation Section: Streets Goal: T-4 Policy: T-4.2 Program: T4.2.1	Element: Transportation Section: Road Safety Goal: T-6	Planning and Transportation Commission
<b>Environmental Impact Analysis:</b> This project is expected to have a possible exemption from CEQA under Section 15301.		

## CAPITAL IMPROVEMENT FUND



University Avenue

**Fund:** Capital Improvement Fund  
**Category:** Traffic and Transportation  
**Project Location:** University Avenue between Alma Street and Middlefield Road  
**Managing Department:** Public Works  
**IBRC Reference:** New  
**Initial Project Start:** Spring 2022  
**Initial Project Completion:** Fall 2023  
**Revised Project Start:** Spring 2022  
**Revised Project Completion:** Fall 2024  
**Project Number:** PE-21004

# University Avenue Streetscape Update

## Description

University Avenue is a regional and local public destination for shopping, dining, and entertainment. To facilitate people-centric activities, this project would assess transforming the University Avenue streetscape between Alma Street and Middlefield Road by repurposing streets, sidewalks, curbs, and parking areas. The goal of the project is to adapt the public realm to maximize pedestrian and bicycle use, reduce congestion, accentuate and enhance the retail environment/economic activity, while maintaining vital two-way vehicular access, parking opportunities, delivery and loading zones, ride share spaces, and other amenities including performance space. The project uses a phased approach with Phase 1 consisting of public outreach, conceptual design, preliminary environmental studies, and financial assessment. A preferred plan will be developed in Phase 1 based on community and stakeholders' input. Upon completion of Phase 1 assessment and Council's review of the community preferred plan, the scope and estimates of future phases including design, environmental assessment, bidding and construction would be developed.

## Justification

The project developed a preferred concept plan to reconfigure University Avenue to create more vibrant and inclusive space to support residents and local businesses. Funding is needed to advance the project to future phases including design, environmental assessment, and bidding.

## Significant Changes

**2025-2029 CIP:** Funding has been added in fiscal years 2025 and 2026 for future phases of the project including preliminary and final design, environmental assessment, engineer's report for assessment district planning, and bidding and construction support services.

**2021-2025 CIP:** Project established during FY 2021.

# CAPITAL IMPROVEMENT FUND

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Capital Improvement Fund</b>	(10,855)	131,586	131,586	880,820	449,359	0	0	0	1,330,179	0	1,450,910
<b>Transfer from Stanford University Medical Ctr Fund</b>	175,000	0	0	0	0	0	0	0	0	0	175,000
<b>Total</b>	<b>\$164,145</b>	<b>\$131,586</b>	<b>\$131,586</b>	<b>\$880,820</b>	<b>\$449,359</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,330,179</b>	<b>\$0</b>	<b>\$1,625,910</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Construction</b>	4,988	0	0	880,820	449,359	0	0	0	1,330,179	0	1,335,167
<b>Design</b>	159,156	131,586	131,586	0	0	0	0	0	0	0	290,742
<b>Total</b>	<b>\$164,144</b>	<b>\$131,586</b>	<b>\$131,586</b>	<b>\$880,820</b>	<b>\$449,359</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,330,179</b>	<b>\$0</b>	<b>\$1,625,909</b>

### Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

Relationship to Comprehensive Plan Primary Connection	Relationship to Comprehensive Plan Secondary Connection	Potential Board/Commission Review:
Element: Land Use and Community Design Section: Commercial Centers Goal: L-4 Policy: L-4.7	Element: Land Use and Community Design Section: Commercial Centers Goal: L-4 Policy: L-4.8	Planning and Transportation Commission Architectural Review Board
<b>Environmental Impact Analysis:</b> This project is anticipated to require an environmental assessment in accordance with CEQA guidelines.		



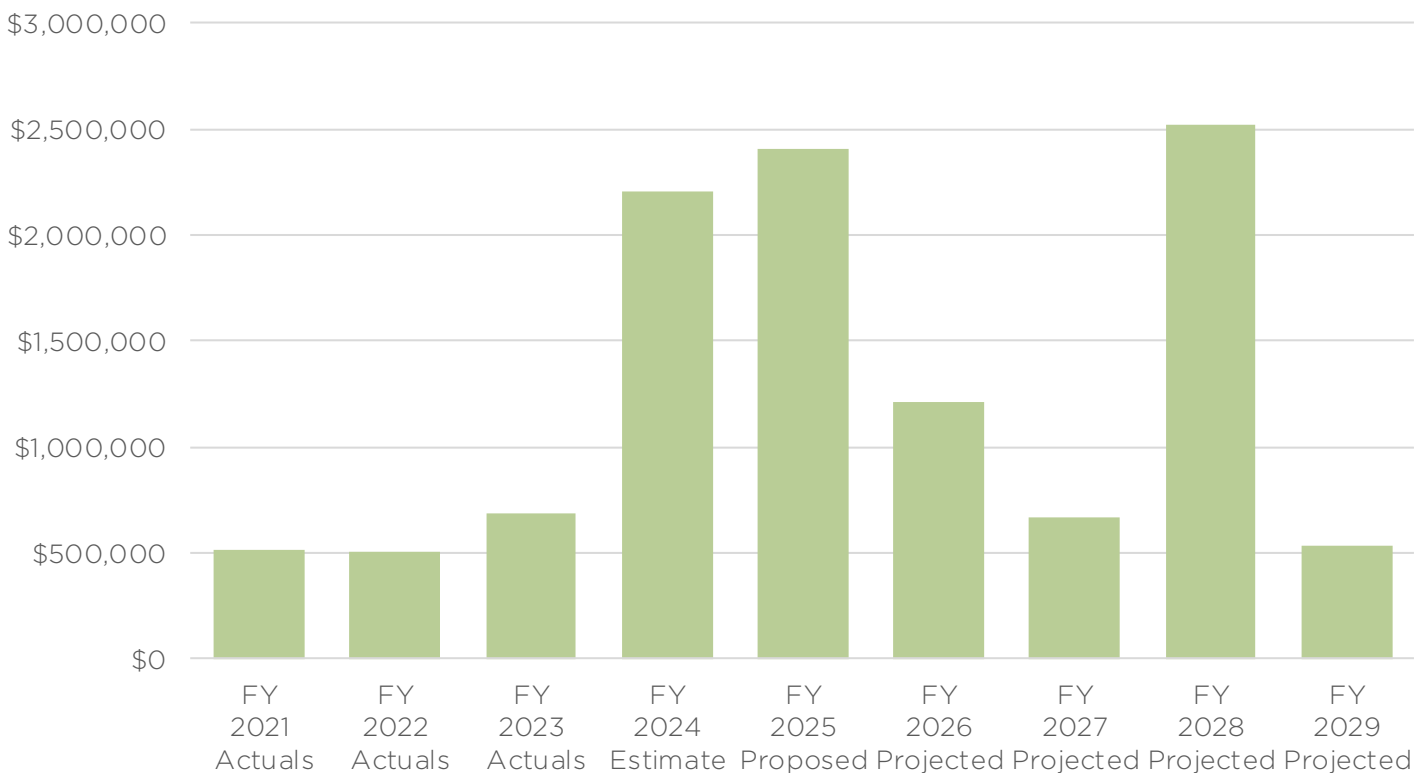
CITY OF  
**PALO  
ALTO**

**CUBBERLEY  
PROPERTY  
INFRASTRUCTURE  
FUND**

# Overview

The Cubberley Property Infrastructure Fund accounts for expenditures related to the maintenance and renovation of the Cubberley Community Center property, which was formerly Cubberley High School from 1955 to 1979. Due to budget constraints resulting from the passage of Proposition 13 and declining enrollment, the Palo Alto Unified School District (PAUSD) was forced to close and sell school properties, including Ellen Fletcher Middle School (formerly Terman Middle School), which the City of Palo Alto acquired, while PAUSD retained ownership of the Cubberley site. In 1989, the City and PAUSD entered into a lease agreement with the City providing annual revenue to PAUSD in exchange for 1) a lease of the 35-acre Cubberley site; 2) a Covenant Not to Develop for five other neighborhood school sites; and 3) an agreement that PAUSD provide space for extended day care at each of the eleven remaining elementary school sites.

## Cubberley Property Infrastructure Fund Expenditures



In 2001, the City relinquished ownership of the Ellen Fletcher (formerly Terman) site in exchange for ownership of eight acres of the Cubberley site. After several lease extensions and amendments in the years following, a restructured 5-year lease agreement was finalized in 2014. As part of the 2014 lease agreement, the 1989 Covenant Not to Develop clause, which required the City to transfer \$1.86 million to the school district, was eliminated and the funds were dedicated towards repairing, renovating and/or improving the Cubberley site, which is jointly owned by the City and PAUSD. A new lease was signed on July 1, 2020 through December 31, 2024 that reduced the amount of PAUSD building space leased by the City and included reimbursements from PAUSD for maintenance and repairs to the facility performed by the City.



# CUBBERLEY PROPERTY INFRASTRUCTURE FUND

The budget for the Cubberley Property Infrastructure Fund is divided into two project categories: Buildings and Facilities and Parks and Open Space. Additional categories may be established in future years once needs are identified through the master plan process.

## Buildings and Facilities

The Buildings and Facilities category accounts for the projects funded to maintain the facilities on the Cubberley Community Center campus.

### Facility Inventory

CLASSIFICATION	QUANTITY
City-owned acres	8
PAUSD-owned acres	27
Total square footage of buildings	175,540 (94,402 City-owned)
Parking spaces	750 (130 City-owned)
Artist studios	22
Dance studios	3
Schools	2
Childcare facilities	2

### Recent Accomplishments

- Completed Cubberley L-6 Dance Studio Floor Replacement
- Completed Cubberley Gyms A & B Ceiling and Walls Asbestos Remediation and Repainting
- Completed Cubberley Gyms A & B Crawl Space Asbestos and Mold Remediation
- Completed Cubberley Wing FH Hallway and Restroom Floor Remodel
- Completed Cubberley Wing FH and Suite D2 Abatement

### 2025-2029 Capital Improvement Program

For the 2025-2029 Capital Improvement Program (CIP), \$5.8 million is budgeted, with \$2.3 million allocated in Fiscal Year 2025 for four projects in the Buildings and Facilities category.

### Recurring Projects

- Cubberley Repairs (Fiscal Year 2025: \$0.3 million; 5-Year CIP: \$0.7 million)
- Cubberley Roof Replacements (Fiscal Year 2025: \$1.2 million; 5-Year CIP: \$3.9 million)

### Non-Recurring Projects

- Cubberley Community Center Redevelopment (5-Year CIP: \$0.3 million)
- Cubberley Gym HVAC Replacement (Fiscal Year 2025: \$0.8 million; 5-Year CIP: \$0.8 million)

## Parks and Open Space

The Parks and Open Space category accounts for projects that maintain Cubberley outdoor space and facilities improvements.

### Recent Accomplishments

- Cubberley tennis courts repaved and rehabilitated with new nets, posts, and windscreens

# CUBBERLEY PROPERTY INFRASTRUCTURE FUND

## 2025-2029 Capital Improvement Program

For the 2025-2029 CIP, \$1.6 million is budgeted, with \$0.1 million allocated in Fiscal Year 2025 for two projects in the Parks and Open Space category.

### Non-Recurring Projects

- Cubberley Field Restroom (Fiscal Year 2025 & 5-Year CIP: \$0.1 million)
- Cubberley Turf Replacement (5-Year CIP: \$1.4 million)

## Cubberley Property Infrastructure Fund

Project Number	Project Title	FY 2024 Budget	FY 2024 Estimate	FY 2025 Proposed	FY 2026	FY 2027	FY 2028	FY 2029	5-Year Total
<b>SOURCE OF FUNDS</b>									
<b>Revenue from Other Agencies</b>									
<b>CB-16002</b>	Cubberley Roof Replacements	1,552,600	1,552,600	0	507,000	0	950,000	360,000	1,817,000
<b>Revenue from Other Agencies Total</b>		<b>\$1,552,600</b>	<b>\$1,552,600</b>	<b>\$0</b>	<b>\$507,000</b>	<b>\$0</b>	<b>\$950,000</b>	<b>\$360,000</b>	<b>\$1,817,000</b>
<b>Total Sources</b>		<b>\$1,552,600</b>	<b>\$1,552,600</b>	<b>\$0</b>	<b>\$507,000</b>	<b>\$0</b>	<b>\$950,000</b>	<b>\$360,000</b>	<b>\$1,817,000</b>
<b>USE OF FUNDS</b>									
<b>Buildings and Facilities</b>									
<b>CB-16001</b>	Cubberley Community Center Master Plan	23,515	23,515	0	0	0	0	0	0
<b>CB-26000</b>	Cubberley Community Center Redevelopment	0	0	0	313,665	0	0	0	313,665
<b>CB-24000</b>	Cubberley Gym HVAC Replacement	809,297	39,297	786,816	0	0	0	0	786,816
<b>CB-17001</b>	Cubberley Repairs	1,080,310	1,080,309	255,460	112,919	121,655	118,591	134,313	742,938
<b>CB-16002</b>	Cubberley Roof Replacements	2,942,085	101,354	1,224,164	781,023	550,712	971,219	402,941	3,930,059
<b>Buildings and Facilities Total</b>		<b>\$4,855,207</b>	<b>\$1,244,475</b>	<b>\$2,266,440</b>	<b>\$1,207,607</b>	<b>\$672,367</b>	<b>\$1,089,810</b>	<b>\$537,254</b>	<b>\$5,773,478</b>
<b>Parks and Open Space</b>									
<b>CB-17002</b>	Cubberley Field Restroom	1,102,034	964,206	140,838	0	0	0	0	140,838
<b>CB-28000</b>	Cubberley Turf Replacement	0	0	0	0	0	1,431,271	0	1,431,271
<b>Parks and Open Space Total</b>		<b>\$1,102,034</b>	<b>\$964,206</b>	<b>\$140,838</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,431,271</b>	<b>\$0</b>	<b>\$1,572,109</b>
<b>Total Uses</b>		<b>\$5,957,241</b>	<b>\$2,208,681</b>	<b>\$2,407,278</b>	<b>\$1,207,607</b>	<b>\$672,367</b>	<b>\$2,521,081</b>	<b>\$537,254</b>	<b>\$7,345,587</b>

## Buildings and Facilities

## CUBBERLEY PROPERTY INFRASTRUCTURE FUND



**Fund:** Cubberley Property Infrastructure Fund

**Category:** Buildings and Facilities

**Project Location:** 4000 Middlefield Road

**Managing Department:** Public Works

**Initial Project Start:** Summer 2025

**Initial Project Completion:** Summer 2028

**Revised Project Start:** N/A

**Revised Project Completion:** N/A

**Project Number:** CB-26000

Cubberley Community Center, August 2019

# Cubberley Community Center Redevelopment

## Description

This project provides funding for design of a new community center on the Cubberley Community Center site owned by the City. The Cubberley Community Center is a valuable community resource, and the plan includes site investigative and funding feasibility studies to inform project scope and design. Construction would occur beyond the current five-year CIP and would be dependent on future funding. This project builds upon the Cubberley Concept Plan completed in 2019.

## Justification

The City currently owns eight acres at the Cubberley Community Center site and the Palo Alto United School District (PAUSD) owns the adjacent 27 acres. The City leases a portion of PAUSD's spaces including the fields, gyms, Pavilion, and theatre. The City and PAUSD are exploring the transfer of a portion of PAUSD-owned land at Cubberley to the City either through a land swap or financial agreement. The buildings have not been improved for decades and require a significant amount of maintenance to keep the facility functional. This project is necessary to bring the facility up to current standards, meet the needs of the community and align with the City's sustainability goals.

## Supplemental Information

A feasibility study will be conducted in FY 2026 to determine the facility needs and scope of the entire redevelopment project. This study will also inform the cost estimate for the construction updates needed at the facility, which will be included in a future five-year capital improvement plan.

# CUBBERLEY PROPERTY INFRASTRUCTURE FUND

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Cubberley Property Infrastructure Fund</b>	0	0	0	0	313,665	0	0	0	313,665	0	313,665
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$313,665</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$313,665</b>	<b>\$0</b>	<b>\$313,665</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Design</b>	0	0	0	0	313,665	0	0	0	313,665	0	313,665
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$313,665</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$313,665</b>	<b>\$0</b>	<b>\$313,665</b>

### Operating Impact

This project will have ongoing operating expenses related to the new facility. As these costs are quantified, adjustments will be brought forward in future budgets as necessary.

Relationship to Comprehensive Plan Primary Connection	Relationship to Comprehensive Plan Secondary Connection	Potential Board/Commission Review:
Element: Community Services & Facilities Section: Planning for Parks and Community Facilities Goal: C-4 Policy: C-4.5 Program: C4.5.1	Policy: C-4.4	Parks and Recreation Commission Planning and Transportation Commission Architectural Review Board
<b>Environmental Impact Analysis:</b> This project may require an environmental impact report in accordance with CEQA guidelines.		

# CUBBERLEY PROPERTY INFRASTRUCTURE FUND



**Fund:** Cubberley Property Infrastructure Fund  
**Category:** Buildings and Facilities  
**Project Location:** 4000 Middlefield Road  
**Managing Department:** Public Works  
**Initial Project Start:** Fall 2023  
**Initial Project Completion:** Fall 2024  
**Revised Project Start:** N/A  
**Revised Project Completion:** N/A  
**Project Number:** CB-24000

Cubberley Gyms A&B HVAC System

## Cubberley Gym HVAC Replacement

### Description

The existing heating system in Cubberley Gyms A & B is original to the building, which was constructed in the mid-1950s. The system is currently not functioning because multiple leaks have developed in the steel hot water piping, which is in the walls and under the floor. These leaks contributed (in addition to a domestic water main supply leak) to significant water damage in the walls, floors, and crawl spaces of the gyms.

### Justification

The proposed new heating system would include installing new copper hot water piping from the boiler room to new air handlers, which would hang from the ceiling. Included in the design would be the installation of an Automated Logic Control system to optimize the operation of the system.

### Supplemental Information

An electrification option is possible, but it is estimated to cost over \$2 million due to the current electrical switchgear not having enough capacity and needing to be upgraded. The building is owned by the Palo Alto School District, so a cost-sharing model may need to be considered if the electrification option were selected.

### Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Cubberley Property Infrastructure Fund	0	809,297	39,298	786,816	0	0	0	0	786,816	0	826,114
<b>Total</b>	<b>\$0</b>	<b>\$809,297</b>	<b>\$39,298</b>	<b>\$786,816</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$786,816</b>	<b>\$0</b>	<b>\$826,114</b>

# CUBBERLEY PROPERTY INFRASTRUCTURE FUND

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Construction</b>	0	728,368	8,368	786,816	0	0	0	0	786,816	0	795,184
<b>Design</b>	0	80,929	30,929	0	0	0	0	0	0	0	30,929
<b>Total</b>	<b>\$0</b>	<b>\$809,297</b>	<b>\$39,297</b>	<b>\$786,816</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$786,816</b>	<b>\$0</b>	<b>\$826,113</b>

### Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

<p><b>Relationship to Comprehensive Plan</b>  <b>Primary Connection</b></p> <p>Element: Community Services &amp; Facilities                  Section: Planning for Parks and Community Facilities                  Goal: C-4                  Policy: C-4.5                  Program: C4.5.1</p> <p><b>Environmental Impact Analysis:</b>                  Possible exemption from CEQA under Section 15301</p>	<p><b>Potential Board/Commission Review:</b></p> <p>Parks and Recreation Commission                  Planning and Transportation Commission</p>
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## CUBBERLEY PROPERTY INFRASTRUCTURE FUND



**Fund:** Cubberley Property Infrastructure Fund

**Category:** Buildings and Facilities

**Project Location:** 4000 Middlefield Road

**Managing Department:** Public Works

**Initial Project Start:** Recurring

**Initial Project Completion:** Recurring

**Revised Project Start:** N/A

**Revised Project Completion:** N/A

**Project Number:** CB-17001

Cubberley Pavement, 2016

# Cubberley Repairs

## Description

This project provides funding to make repairs and minor improvements at the Cubberley Community Center. Work completed under this project may include items such as painting, sidewalk repairs, breezeway pavement resurfacing, landscaping improvements, minor equipment replacement, and improvements to interior finishes.

## Justification

This project allows minor improvements to occur that will address safety concerns, functionality of building systems, and aesthetics.

## Supplemental Information

Repairs in various parts of the facility are scheduled annually. Funding is programmed for exterior maintenance, repairs to concrete and asphalt, tree removals, and interior maintenance and repairs including heating and ventilation, radiant floor heating, lighting, and painting.

Work programmed for this project in FY 2024, continuing into FY 2025, includes:

- Boiler replacements (two boilers in C Wing)
- Pavilion lighting upgrade
- Theater lobby carpet replacement

## Significant Changes

**2025-2029 CIP:** The project budget increased by \$0.1 million in FY 2025 to program the work plan outlined in Supplemental Information. Project expenses are adjusted annually to account for cost escalation.



# CUBBERLEY PROPERTY INFRASTRUCTURE FUND

**2024-2028 CIP:** Funding removed in FY 2024 for new repairs as staff is currently working on completing the FY 2023 work plan outlined in the Supplemental Information.

**2023-2027 CIP:** The project budget increased by \$0.6 million in FY 2023 to program the work plan outlined in Supplemental Information. Project expenses are adjusted annually to account for cost escalation.

**2022-2026 CIP:** Pavilion ceiling tile replacement, Theater lobby carpet replacement, and Wing M hallway floor rehabilitation remain major projects.

**2021-2025 CIP:** All projects pushed out one year due to staffing constraints.

**2020-2024 CIP:** Major projects for FY 2020 will include Pavilion ceiling tile replacement, Theater lobby carpet replacement, and Wing M hallway flooring and carpet replacement.

**2019-2023 CIP:** This project has shifted from non-recurring to recurring to address repairs needed annually throughout the property. Funding will continue to be allocated on an annual basis until completion of the Cubberley Master Plan.

**2017-2021 CIP:** Project established.

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Cubberley Property Infrastructure Fund	N/A	1,080,310	1,080,309	255,460	112,919	121,655	118,591	134,313	742,938	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$1,080,310</b>	<b>\$1,080,309</b>	<b>\$255,460</b>	<b>\$112,919</b>	<b>\$121,655</b>	<b>\$118,591</b>	<b>\$134,313</b>	<b>\$742,938</b>	<b>\$0</b>	<b>N/A</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Construction	N/A	1,080,310	1,080,309	255,460	112,919	121,655	118,591	134,313	742,938	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$1,080,310</b>	<b>\$1,080,309</b>	<b>\$255,460</b>	<b>\$112,919</b>	<b>\$121,655</b>	<b>\$118,591</b>	<b>\$134,313</b>	<b>\$742,938</b>	<b>\$0</b>	<b>N/A</b>

## Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

# CUBBERLEY PROPERTY INFRASTRUCTURE FUND

**Relationship to Comprehensive Plan  
Primary Connection**

Element: Community Services &  
Facilities  
Section: Maintenance of Parks and  
Community Facilities  
Goal: C-3  
Policy: C-3.2

**Potential Board/Commission Review:**

Planning and Transportation  
Commission

**Environmental Impact Analysis:**

This project is expected to have a possible exemption from CEQA under Section 15301.



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## CUBBERLEY PROPERTY INFRASTRUCTURE FUND



**Fund:** Cubberley Property Infrastructure Fund

**Category:** Buildings and Facilities

**Project Location:** 4000 Middlefield Road

**Managing Department:** Public Works

**Initial Project Start:** Recurring

**Initial Project Completion:** Recurring

**Revised Project Start:** N/A

**Revised Project Completion:** N/A

**Project Number:** CB-16002

Cubberley Wing P, January 2015

# Cubberley Roof Replacements

## Description

This project provides funding for the replacement or restoration of failing roofs at the Cubberley Community Center. The Palo Alto Unified School District (PAUSD) reimburses the City for work completed on PAUSD-owned buildings.

## Justification

Most of the existing mineral cap roofs at Cubberley have exceeded their useful lives and are in poor condition. Rehabilitation is needed to prevent significant problems that may cause structural damage to buildings. In some cases, a more cost-effective roof restoration process is planned while in other cases a full replacement is necessary. A fluid and reinforced waterproofing system can be applied over the existing roof that also meets current cool roofing codes to optimize energy efficiency.

## Supplemental Information

Facilities scheduled for re-roofing with a fluid applied system or for major repairs are:

**Fiscal Year 2025:** Pavilion Flat Roof

**Fiscal Year 2026:** Cubberley Wings T1 and T2, Wing I (PAUSD)

**Fiscal Year 2027:** Cubberley Wings C and D

**Fiscal Year 2028:** Cubberley Wings A (PAUSD) and B (PAUSD)

**Fiscal Year 2029:** Cubberley Wing E and V, shared breezeway (partial PAUSD)

# CUBBERLEY PROPERTY INFRASTRUCTURE FUND

## Significant Changes

**2025-2029 CIP:** Wings T1, T2, and U moved from FY 2024 to FY2026; Pavilion flat roof moved from FY2024 to FY 2025; Wings C and D moved from FY 2025 to FY2027; Wings E and V moved from FY 2026 to FY 2028; Wings A and B moved from FY 2027 to FY 2029; Wing I moved from FY 2028 to outside the 5-year plan.

**2024-2028 CIP:** Cubberley Wing I and corresponding budget moved from FY 2027 to FY 2028.

**2023-2027 CIP:** Changes to scheduled roof replacement work are noted above, with additional work increasing the project budget by \$0.7 million over the 5-year CIP compared to the 2022-2026 CIP. Approximately \$3.8 million is anticipated to be reimbursed by PAUSD.

**2022-2026 CIP:** Additional work resulted in an increased expense of approximately \$2.7 million in this project over the 5-year CIP compared to the 2021-2025 CIP. Approximately \$1.1 million anticipated to be reimbursed by PAUSD. Funding for Cubberley Wing F/FH also extended to FY 2022 due to shortage of staff; this was originally slated for FY 2020.

**2021-2025 CIP:** Cubberley Wings H and D were moved to FY 2021 while Wings T1 and T2 were moved to FY 2023. Wing A was added for FY 2025.

**2020-2024 CIP:** Cubberley Wings F and FH were postponed to FY 2020 from FY 2019 to prioritize Wings J and K from FY 2021 to FY 2019.

**2016-2020 CIP:** Project established in the Cubberley Property Infrastructure Fund. Funding was allocated in prior years for roofing replacements at Cubberley Community Center in the Capital Improvement Fund. Funding is now recommended in the Cubberley Property Infrastructure Fund for this purpose, consistent with the revised lease agreement with the Palo Alto Unified School District, approved by the City Council in 2014.

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Cubberley Property Infrastructure Fund	N/A	1,389,485	(1,451,246)	1,224,164	274,023	550,712	21,219	42,941	2,113,059	0	N/A
Revenue from Other Agencies	N/A	1,552,600	1,552,600	0	507,000	0	950,000	360,000	1,817,000	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$2,942,085</b>	<b>\$101,354</b>	<b>\$1,224,164</b>	<b>\$781,023</b>	<b>\$550,712</b>	<b>\$971,219</b>	<b>\$402,941</b>	<b>\$3,930,059</b>	<b>\$0</b>	<b>N/A</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Construction	N/A	2,942,085	101,354	1,224,164	781,023	550,712	971,219	402,941	3,930,059	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$2,942,085</b>	<b>\$101,354</b>	<b>\$1,224,164</b>	<b>\$781,023</b>	<b>\$550,712</b>	<b>\$971,219</b>	<b>\$402,941</b>	<b>\$3,930,059</b>	<b>\$0</b>	<b>N/A</b>

## Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

# CUBBERLEY PROPERTY INFRASTRUCTURE FUND

**Relationship to Comprehensive Plan  
Primary Connection**

Element: Community Services &  
Facilities  
Section: Maintenance of Parks and  
Community Facilities  
Goal: C-3  
Policy: C-3.2

**Potential Board/Commission Review:**

Historic Resources Board  
Planning and Transportation  
Commission  
Architectural Review Board

**Environmental Impact Analysis:**

This project is expected to have a possible exemption from CEQA under Section 15301.

## Parks and Open Space

## CUBBERLEY PROPERTY INFRASTRUCTURE FUND



**Fund:** Cubberley Property Infrastructure Fund

**Category:** Parks and Open Space

**Project Location:** 4000 Middlefield Road

**Managing Department:** Public Works

**Initial Project Start:** Summer 2016

**Initial Project Completion:** Summer 2018

**Revised Project Start:** Winter 2022

**Revised Project Completion:** Fall 2024

**Project Number:** CB-17002

Cubberley Fields, February 2016

# Cubberley Field Restroom

## Description

This project provides the installation of a four-stall prefabricated restroom at the Cubberley Community Center Fields, including a lift station to pump sanitary sewage.

## Justification

This project will provide a restroom facility for the Cubberley Community Center Fields to accommodate intensive sports league and recreational usage. The facility consists of soccer and softball fields as well as tennis courts and a running track. It is the City's largest field complex without a restroom. A four-stall restroom building is proposed due to heavy use of the play fields.

## Significant Changes

**2025-2029 CIP:** Project completion date has been extended to Fall 2024.

**2024-2028 CIP:** Funding increased by \$0.7 million for a total project cost of \$1.4 million due to additional costs associated with increasing the building from a 2-stall to a 4-stall building; design and construction of the sewage pump station and associated appurtenances and utilities; and green infrastructure and accessibility provisions.

**2023-2027 CIP:** This project was delayed from being completed in FY 2022 to FY 2023 due to staffing constraints. Funding has been increased by \$0.2 million to a total of \$0.7 million due to higher cost of materials and delivery of the prefabricated restroom and associated utilities connections.

**2022-2026 CIP:** This project was delayed from being completed in FY 2021 to FY 2022 due to staffing constraints.



# CUBBERLEY PROPERTY INFRASTRUCTURE FUND

**2021-2025 CIP:** This project was delayed from being completed in FY 2020 to FY 2021 due to staffing constraints.

**2020-2024 CIP:** This project was delayed from being completed in FY 2019 to FY 2020 due to staffing constraints and issues purchasing the prefabricated restroom.

**2019-2023 CIP:** Funding has been increased by \$150,000 due to the placement, associated utility connections, and updated cost estimates.

**2017-2021 CIP:** Project established.

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Cubberley Property Infrastructure Fund</b>	347,840	1,102,034	964,206	140,838	0	0	0	0	140,838	0	1,452,884
<b>Total</b>	<b>\$347,840</b>	<b>\$1,102,034</b>	<b>\$964,206</b>	<b>\$140,838</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$140,838</b>	<b>\$0</b>	<b>\$1,452,884</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Construction</b>	21,607	1,047,536	909,708	140,838	0	0	0	0	140,838	0	1,072,153
<b>Design</b>	326,225	54,498	54,498	0	0	0	0	0	0	0	380,723
<b>Total</b>	<b>\$347,832</b>	<b>\$1,102,034</b>	<b>\$964,206</b>	<b>\$140,838</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$140,838</b>	<b>\$0</b>	<b>\$1,452,876</b>

## Operating Impacts

	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total
<b>General Fund-Operating</b>	31,500	32,500	33,400	34,400	35,500	167,300

### Operating Impact

This project is anticipated to impact operating expenses in the future. Custodial and maintenance costs are estimated to be \$31,500 in FY 2025 and increase by three percent annually thereafter. These costs will be included as part of the City’s custodial contract cost for the operations and maintenance.

# CUBBERLEY PROPERTY INFRASTRUCTURE FUND

**Relationship to Comprehensive Plan  
Primary Connection**

Element: Community Services &  
Facilities  
Section: Maintenance of Parks and  
Community Facilities  
Goal: C-3  
Policy: C-3.3

**Potential Board/Commission Review:**

Parks and Recreation Commission  
Planning and Transportation  
Commission  
Architectural Review Board

**Environmental Impact Analysis:**

This project is expected to have a possible exemption from CEQA under Section 15301.



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# CUBBERLEY PROPERTY INFRASTRUCTURE FUND



**Fund:** Cubberley Property Infrastructure Fund  
**Category:** Parks and Open Space  
**Project Location:** Cubberley Community Center  
**Managing Department:** Public Works  
**Initial Project Start:** Spring 2028  
**Initial Project Completion:** Summer 2028  
**Revised Project Start:** N/A  
**Revised Project Completion:** N/A  
**Project Number:** CB-28000

Cubberley Synthetic Turf Field 2023

## Cubberley Turf Replacement

### Description

This project provides funding for replacement of synthetic turf at the Cubberley field used by soccer and lacrosse leagues and the general public. The turf field is approximately 109,000 square feet.

### Justification

The Cubberley synthetic turf field accommodates year round play, including additional evening play with some temporary lighting. Since the turf was installed in 2020, it has been in high demand and is used by youth and adult leagues as well as walk-on play. Synthetic turf has a typical lifespan of approximately eight to ten years with each year of use contributing to gradual wear and tear resulting in loss of pile height, turf fiber, and infill.

### Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Cubberley Property Infrastructure Fund	0	0	0	0	0	0	1,431,271	0	1,431,271	0	1,431,271
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,431,271</b>	<b>\$0</b>	<b>\$1,431,271</b>	<b>\$0</b>	<b>\$1,431,271</b>

### Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Construction	0	0	0	0	0	0	1,313,702	0	1,313,702	0	1,313,702

# CUBBERLEY PROPERTY INFRASTRUCTURE FUND

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Design	0	0	0	0	0	0	117,569	0	117,569	0	117,569
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,431,271</b>	<b>\$0</b>	<b>\$1,431,271</b>	<b>\$0</b>	<b>\$1,431,271</b>

### Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

#### Relationship to Comprehensive Plan Primary Connection

Element: Community Services & Facilities  
 Section: Planning for Parks and Community Facilities  
 Goal: C-4  
 Policy: C-4.5  
 Program: C4.5.1

#### Potential Board/Commission Review:

Parks and Recreation Commission  
 Planning and Transportation Commission

#### Environmental Impact Analysis:

Possible exemption from CEQA under Section 15301



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# ENTERPRISE FUND PROJECTS





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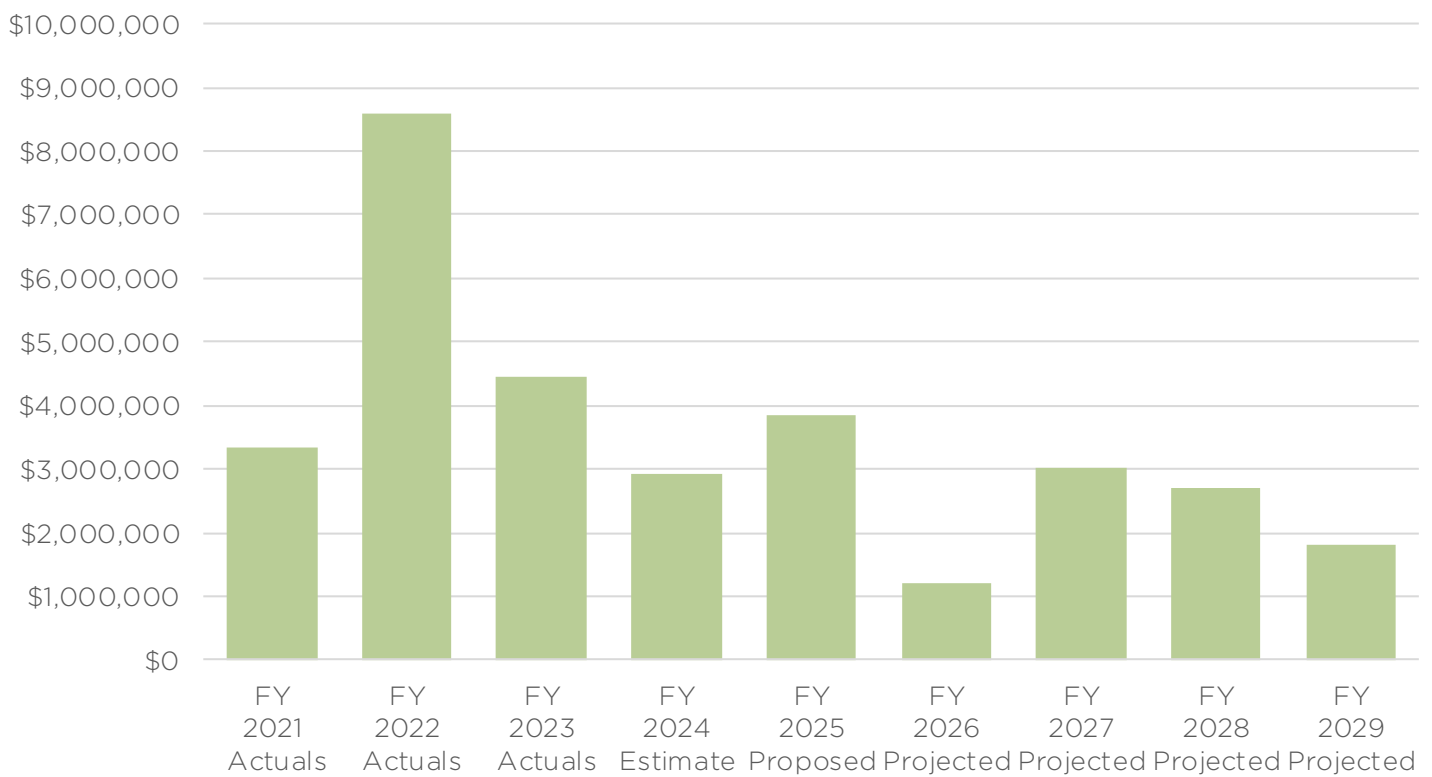


# AIRPORT FUND

# Overview

The Airport Fund Capital Improvement Program (CIP) accounts for activities related to the construction and replacement of infrastructure necessary to operate and maintain the airport. The Palo Alto Airport (PAO) is a federally obligated airport, which receives federal funds for airport capital improvement projects based on Federal Aviation Administration (FAA) established grant assurances that airport operators must adhere to in order to receive funds. For detailed information on the maintenance and operations of the airport, please refer to the Airport Fund section in the Operating Budget.

## Airport Fund Expenditures



The 2025-2029 CIP includes 6 projects totaling \$12.6 million with Fiscal Year 2025 projects totaling \$3.8 million. The FAA provides grants to public agencies for the planning and development of public-use airports and reimburses up to 90 percent of the non-salary cost of eligible projects. Staff intends to continue applying for FAA grants for eligible capital improvement projects to ensure a safe and well-maintained airport. Staff will also apply for state grant-matching opportunities when available. The budget for the Airport Fund CIP is divided into two categories: Airport Apron, Runways, and Taxiways and Airport Facilities, and projects in this 5-year plan are subject to FAA funding.

## Airport Apron, Runways, and Taxiways

The Airport Apron, Runways, and Taxiways category accounts for the design and construction of improvements and enhancements, which include pavement, lighting, drainage, and perimeter fencing. The Palo Alto

Airport includes one runway of approximately 2,400 feet in length, one parallel taxiway of the same length, and four connector taxiways for entering and exiting the runway.

### Infrastructure Inventory - Summary of Airport Taxiways

CLASSIFICATION	QUANTITY	DESCRIPTION
Apron or Ramp	353	Tie-down spots
Runway	1	2443 x 70 feet
Taxiway	5	1 parallel taxiway 4 connector taxiways

#### Recent Accomplishments

- Completed the third and final phase of the Apron Reconstruction project.

### 2025-2029 Capital Improvement Program

#### Recurring Projects

There are no recurring projects scheduled at this time.

#### Non-Recurring Projects

There are two non-recurring projects scheduled in the 2025-2029 CIP:

- Airfield Electrical Improvements (Fiscal Year 2025: \$0.5 million; 5-Year CIP: \$5.8 million)
- Runway and Taxiway Reconstruction and Drainage Improvements (5-Year CIP: \$1.2 million)

With the Apron Reconstruction project completed, the Airport is shifting focus to other CIP projects. Airfield Electrical Improvements will update the runway and taxiway lighting to current FAA standards and will convert existing lighting to more energy efficient light fixtures. This project will also create central electrical station with emergency backup power. The Runway and Taxiway Reconstruction and Drainage Improvements project timeline is dependent on FAA funding, which is currently not available until later in the 5-year CIP.

## Airport Facilities

The Airport Facilities category accounts for buildings, security systems, parking lot and all other infrastructure improvements. Prior to April 2017, Fixed Base Operators (FBO) leased spaces at the Airport and were responsible for the maintenance of their structures, with the exception of the terminal. In April 2017, the FBO leases expired and the City became responsible for the maintenance of these structures. Interim lease agreements between the City and existing businesses were executed with the understanding that agreements will be renegotiated following the completion of the Airport Layout Plan project (AP-21000). This gives existing businesses and/or interested parties the ability to establish long-term leases at that time. The Airport Layout Plan project (AP-21000) and the Airport Long Range Facilities and Sustainability Plan of the Airport Layout Plan, is estimated to be completed in Spring 2025.

### Infrastructure Inventory - Summary of Airport Facilities

CLASSIFICATION	QUANTITY	DESCRIPTION
Buildings	2	Offices
Hangars	12	Medium Conventional Box Hangar

# AIRPORT FUND

## Infrastructure Inventory - Summary of Airport Facilities

CLASSIFICATION	QUANTITY	DESCRIPTION
Hangars	2	Large Conventional Box Hangar
Hangars	45	Small Nested T-Hangar
Hangars	3	Large Conventional Multi-Aircraft Hangar
Trailers	2	Airport Terminal Building and Offices

## 2025-2029 Capital Improvement Program

### Recurring Projects

There are no recurring projects scheduled at this time.

### Non-Recurring Projects

There are four non-recurring projects during the 2025-2029 CIP:

- Airport Access Road Reconstruction (Fiscal Year 2025: \$1.4 million; 5-Year CIP: \$3.7 million)
- Airport Temporary Office Buildings (Fiscal Year 2025: \$0.4 million; 5-Year CIP: \$0.4 million)
- Airport Zero Emission Vehicle Fleet Replacement Program (Fiscal Year 2025: \$0.1 million; 5-Year CIP: \$0.1 million)
- Automated Weather Observation System (AWOS) (Fiscal Year 2025: \$1.4 million; 5-Year CIP: \$1.4 million)

The Airport Access Road Reconstruction project will reconstruct the failing pavement of Embarcadero Way on the West side of the airport.

The Airport Temporary Office Buildings project will install and refurbish existing modular buildings donated by the PAUSD and already on-site at the Airport. The site preparation, and a majority of utilities, were completed as part of the Phase III Airport Apron Reconstruction project. Funding in this project will finalize installation of the buildings and the Furniture, Fixtures, & Equipment (FF&E) needed to provide adequate office space for airport staff as well as terminal space for the public.

The Airport Zero Emission Vehicle Fleet Replacement Program project will replace three zero emissions vehicles and provide three electric charging stations which is estimated to be funded at 90% by the FAA Zero Emission Vehicle and Infrastructure funding program.

The AWOS will provide accurate airport specific weather advisory to pilots 24 hours a day. Currently, airport weather is only provided by the Air Traffic Control Tower during operating hours. This weather system will also provide a benefit that the entire city can use as it will be integrated into the national weather system.

## Airport Fund

Project Number	Project Title	FY 2024 Budget	FY 2024 Estimate	FY 2025 Proposed	FY 2026	FY 2027	FY 2028	FY 2029	5-Year Total
<b>SOURCE OF FUNDS</b>									
<b>Revenue from the Federal Government</b>									
AP-19001	Airfield Electrical Improvements	0	0	433,350	0	1,170,000	1,710,000	1,440,000	4,753,350

Airport Fund *(Continued)*

Project Number	Project Title	FY 2024 Budget	FY 2024 Estimate	FY 2025 Proposed	FY 2026	FY 2027	FY 2028	FY 2029	5-Year Total
AP-24000	Airport Access Road Reconstruction	270,000	0	1,170,000	900,000	900,000	0	0	2,970,000
AP-21000	Airport Layout Plan	673,452	673,452	0	0	0	0	0	0
AP-24001	Airport Parking Lot Electric Vehicle Charger Installation	22,500	22,500	0	0	0	0	0	0
AP-23000	Airport Zero Emission Vehicle Fleet Replacement Program	281,700	125,053	156,647	0	0	0	0	156,647
AP-19000	Automated Weather Observation System (AWOS)	391,050	49,211	1,241,839	0	0	0	0	1,241,839
AP-22000	Runway and Taxiway Reconstruction and Drainage Improvements	0	0	0	0	450,000	540,000	0	990,000
<b>Revenue from the Federal Government Total</b>		<b>\$1,638,702</b>	<b>\$870,216</b>	<b>\$3,001,836</b>	<b>\$900,000</b>	<b>\$2,520,000</b>	<b>\$2,250,000</b>	<b>\$1,440,000</b>	<b>\$10,111,836</b>
<b>Total Sources</b>		<b>\$1,638,702</b>	<b>\$870,216</b>	<b>\$3,001,836</b>	<b>\$900,000</b>	<b>\$2,520,000</b>	<b>\$2,250,000</b>	<b>\$1,440,000</b>	<b>\$10,111,836</b>

USE OF FUNDS

Airport Apron, Runways, and Taxiways

AP-19001	Airfield Electrical Improvements	0	0	508,207	0	1,396,709	2,062,873	1,821,661	5,789,450
AP-16000	Airport Apron Reconstruction	2,497,610	1,628,466	0	0	0	0	0	0
AP-22000	Runway and Taxiway Reconstruction and Drainage Improvements	0	0	0	0	537,195	651,433	0	1,188,628
<b>Airport Apron, Runways, and Taxiways Total</b>		<b>\$2,497,610</b>	<b>\$1,628,466</b>	<b>\$508,207</b>	<b>\$0</b>	<b>\$1,933,904</b>	<b>\$2,714,306</b>	<b>\$1,821,661</b>	<b>\$6,978,078</b>

Airport Facilities

AP-24000	Airport Access Road Reconstruction	347,923	47,923	1,372,104	1,205,583	1,074,392	0	0	3,652,079
AP-21000	Airport Layout Plan	819,023	819,023	0	0	0	0	0	0
AP-24001	Airport Parking Lot Electric Vehicle Charger Installation	28,994	28,993	0	0	0	0	0	0
AP-22001	Airport Temporary Office Buildings	410,158	51,358	378,700	0	0	0	0	378,700
AP-23000	Airport Zero Emission Vehicle Fleet Replacement Program	343,051	186,404	165,335	0	0	0	0	165,335
AP-19000	Automated Weather Observation System (AWOS)	514,109	172,269	1,416,264	0	0	0	0	1,416,264
<b>Airport Facilities Total</b>		<b>\$2,463,258</b>	<b>\$1,305,970</b>	<b>\$3,332,403</b>	<b>\$1,205,583</b>	<b>\$1,074,392</b>	<b>\$0</b>	<b>\$0</b>	<b>\$5,612,378</b>
<b>Total Uses</b>		<b>\$4,960,868</b>	<b>\$2,934,436</b>	<b>\$3,840,610</b>	<b>\$1,205,583</b>	<b>\$3,008,296</b>	<b>\$2,714,306</b>	<b>\$1,821,661</b>	<b>\$12,590,456</b>



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## Airport Apron, Runways, and Taxiways



**Fund:** Airport Enterprise Fund  
**Category:** Airport Apron, Runways, and Taxiways  
**Project Location:** 1925 Embarcadero Road  
**Managing Department:** Public Works  
**Initial Project Start:** Fall 2019  
**Initial Project Completion:** Summer 2020  
**Revised Project Start:** Fall 2024  
**Revised Project Completion:** Spring 2029  
**Project Number:** AP-19001

Airfield Electrical, July 2017

# Airfield Electrical Improvements

## Description

This project provides funding for electrical and lighting improvements to the airfield.

## Justification

The last known airfield electrical improvements were performed in 1993. Results of the electrical assessment conducted as part of the Airport Apron Reconstruction project will inform the necessary above ground electrical infrastructure needs including lighting, signage, and possible vault modifications.

## Supplemental Information

The design and construction of underground infrastructure being utilized will be completed in the Airport Apron Reconstruction project. LED lighting may be installed for greater efficiency and to comply with City sustainability goals.

## Significant Changes

**2023-2027 CIP:** The FAA deferred initial grant funding for this project from FY 2024 to FY 2025. The cost of the project scope increased by approximately \$0.4 million due to project design, phasing cost and construction estimates.

**2021-2025 CIP:** The FAA deferred grant funding for this project from FY 2023 to FY 2024. Funding was increased due to project design cost estimates.

**2020-2024 CIP:** This project was changed from four phases to three phases and moved up from FY 2024 to FY 2023, in conjunction with the Airport Apron Reconstruction project (AP-16000). The project was increased to anticipate extra costs that are likely to result from the Airport Layout Plan in order to meet FAA design stan-



dards such as costs for the emergency generator, vault building, runway end identifier lights (REIL), precision approach path indicator (PAPI) units, and windcone installation.

**2019-2023 CIP:** The FAA deferred grant funding for this project from FY 2019 to FY 2024 to complete the Airport Apron Reconstruction project (AP-16000).

### Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Airport Fund</b>	0	0	0	74,857	0	226,709	352,873	381,661	1,036,100	0	1,036,100
<b>Revenue from the Federal Government</b>	0	0	0	433,350	0	1,170,000	1,710,000	1,440,000	4,753,350	0	4,753,350
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$508,207</b>	<b>\$0</b>	<b>\$1,396,709</b>	<b>\$2,062,873</b>	<b>\$1,821,661</b>	<b>\$5,789,450</b>	<b>\$0</b>	<b>\$5,789,450</b>

### Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Construction</b>	0	0	0	0	0	1,396,709	2,062,873	1,821,661	5,281,243	0	5,281,243
<b>Design</b>	0	0	0	508,207	0	0	0	0	508,207	0	508,207
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$508,207</b>	<b>\$0</b>	<b>\$1,396,709</b>	<b>\$2,062,873</b>	<b>\$1,821,661</b>	<b>\$5,789,450</b>	<b>\$0</b>	<b>\$5,789,450</b>

### Operating Impact

This project is anticipated to have operating expenses related to pavement maintenance. As these costs are quantified, adjustments will be brought forward in future budgets, as necessary.

<p><b>Relationship to Comprehensive Plan</b>  <b>Primary Connection</b></p> <p>Element: Land Use and Community Design                  Section: Airport                  Goal: L-10                  Policy: L-10.1</p> <p><b>Environmental Impact Analysis:</b>                  This project may be exempt from CEQA under Section 15301.</p>	<p><b>Potential Board/Commission Review:</b></p> <p>Planning and Transportation Commission                  Architectural Review Board</p>
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**Fund:** Airport Enterprise Fund  
**Category:** Airport Apron, Runways, and Taxiways  
**Project Location:** 1925 Embarcadero Road  
**Managing Department:** Public Works  
**Initial Project Start:** Summer 2014  
**Initial Project Completion:** Summer 2015  
**Revised Project Start:** Summer 2026  
**Revised Project Completion:** Summer 2029  
**Project Number:** AP-22000

Runway and Taxiway, July 2017

# Runway and Taxiway Reconstruction and Drainage Improvements

## Description

This project will provide funding for the design and implementation of runway and taxiway reconstruction and drainage improvements for the Palo Alto Airport.

## Justification

In 2015, the Airport Pavement Management Plan identified integrity deficiencies beyond the immediate safety concerns addressed in the Airport Apron Reconstruction project (AP-16000). This project will address the lower priority repairs and drainage improvements after the Airport Apron Reconstruction project is completed in Fall 2022.

## Significant Changes

**2023-2027 CIP:** The FAA is deferring grant funding for this project from FY 2026 to FY 2027.

**2021-2025 CIP:** The FAA is deferring grant funding for this project from FY 2024 to FY 2026.

**2020-2024 CIP:** This CIP is pending FAA grant funding in FY 2024.

**2019-2023 CIP:** The FAA is deferring grant funding for this project from FY 2022 to FY 2024 to complete the Airport Apron Reconstruction project (AP-16000).

### Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Airport Fund</b>	0	0	0	0	0	87,195	111,433	0	198,628	360,100	558,728
<b>Revenue from the Federal Government</b>	0	0	0	0	0	450,000	540,000	0	990,000	3,245,900	4,235,900
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$537,195</b>	<b>\$651,433</b>	<b>\$0</b>	<b>\$1,188,628</b>	<b>\$3,606,000</b>	<b>\$4,794,628</b>

### Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Construction</b>	0	0	0	0	0	0	651,433	0	651,433	3,606,000	4,257,433
<b>Design</b>	0	0	0	0	0	537,195	0	0	537,195	0	537,195
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$537,195</b>	<b>\$651,433</b>	<b>\$0</b>	<b>\$1,188,628</b>	<b>\$3,606,000</b>	<b>\$4,794,628</b>

### Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

<p><b>Relationship to Comprehensive Plan</b>  <b>Primary Connection</b>                  Element: Land Use and Community                  Design                  Section: Airport                  Goal: L-10                  Policy: L-10.1</p>	<p><b>Potential Board/Commission Review:</b>                  Planning and Transportation Commission                  Architectural Review Board</p>
<p><b>Environmental Impact Analysis:</b>                  This project may be exempt from CEQA under Section 15301.</p>	



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# Airport Facilities

# AIRPORT FUND



**Fund:** Airport Enterprise Fund  
**Category:** Airport Facilities  
**Project Location:** Embarcadero Way  
**Managing Department:** Public Works  
**Initial Project Start:** Summer 2023  
**Initial Project Completion:** Summer 2027  
**Revised Project Start:** N/A  
**Revised Project Completion:** N/A  
**Project Number:** AP-24000

Deteriorating Condition of Airport Access Road

## Airport Access Road Reconstruction

### Description

This project is for the design & reconstruction of the pavement on Embarcadero Way, which is the main access road for airport businesses and the Air Traffic Control Tower at the Airport.

### Justification

The pavement on Embarcadero Way is currently in failing condition causing the road to narrow to a one lane road in several areas. This project will also improve infrastructure for both fire service access and the potential for future solar installation at the Airport.

### Significant Changes

**2023-2027 CIP:** Project established in FY 2023. The design work will be completed in FY 2024 with construction in three phases between FY 2025 and FY 2027. The cost of 90% of this project will be reimbursed by the FAA.

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Airport Fund</b>	0	77,923	47,923	202,104	305,583	174,392	0	0	682,079	0	730,002
<b>Revenue from the Federal Government</b>	0	270,000	0	1,170,000	900,000	900,000	0	0	2,970,000	0	2,970,000
<b>Total</b>	<b>\$0</b>	<b>\$347,923</b>	<b>\$47,923</b>	<b>\$1,372,104</b>	<b>\$1,205,583</b>	<b>\$1,074,392</b>	<b>\$0</b>	<b>\$0</b>	<b>\$3,652,079</b>	<b>\$0</b>	<b>\$3,700,002</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Construction</b>	0	0	0	1,055,465	1,205,583	1,074,392	0	0	3,335,440	0	3,335,440
<b>Design</b>	0	347,923	47,923	316,639	0	0	0	0	316,639	0	364,562
<b>Total</b>	<b>\$0</b>	<b>\$347,923</b>	<b>\$47,923</b>	<b>\$1,372,104</b>	<b>\$1,205,583</b>	<b>\$1,074,392</b>	<b>\$0</b>	<b>\$0</b>	<b>\$3,652,079</b>	<b>\$0</b>	<b>\$3,700,002</b>

### Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

<p><b>Relationship to Comprehensive Plan</b>  <b>Primary Connection</b></p> <p>Element: Land Use and Community                  Design                  Section: Airport                  Goal: L-10                  Policy: L-10.1</p> <p><b>Environmental Impact Analysis:</b>                  This project may be exempt from CEQA under Section 15301.</p>	<p><b>Potential Board/Commission Review:</b></p> <p>Planning and Transportation                  Commission</p>
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**Fund:** Airport Enterprise Fund  
**Category:** Airport Facilities  
**Project Location:** 1925 Embarcadero Road  
**Managing Department:** Public Works  
**Initial Project Start:** Summer 2021  
**Initial Project Completion:** Winter 2022  
**Revised Project Start:** Fall 2022  
**Revised Project Completion:** Summer 2024  
**Project Number:** AP-22001

Modular office buildings at the Palo Alto Airport

# Airport Temporary Office Buildings

## Description

This project will provide funding for the installation and Furniture, Fixtures, & Equipment (FF&E) of existing temporary modular buildings at the airport to provide adequate office space for airport staff as well as terminal space for the public.

## Justification

The current terminal at the airport does not provide adequate space for staff or the flying public. The airport has also experienced an increase in chartered flights that are not expected to wane. The Civil Air Patrol, California Disaster Airlift Relief Team, and Palo Alto Pilots Association can use this space for their meetings.

This project will install and refurbish existing modular buildings already on-site at the airport at two locations that will be used for non-profit organizations that provide services at the airport, and can be rented out to other airport businesses. The site preparation, subgrade stabilization for the location of these buildings, and a majority of utilities, were included in the Phase III Airport Apron Reconstruction project (AP-16000) that was completed Fall 2022.

## Supplemental Information

The Airport started a Sustainable Airport Comprehensive Plan in Fiscal Year 2022, which is now known as the Long Range Facilities and Sustainability Plan, is estimated to be completed in Fall of 2024. This plan will guide the Airport's development over the next 20 years and will address permanent airport terminal needs to meet current and anticipated future demands of the Palo Alto Airport.

## Significant Changes

**2024-2028 CIP:** With the Airport Apron Reconstruction project completed, the Airport will go out to bid for the placement of these buildings. It is expected that the project will be completed in Summer 2024.



**2023-2027 CIP:** Funding for this project increased by approximately \$0.2 million to purchase furniture and fund increased costs to install two of the three modular buildings.

**2022-2026 CIP:** Project established during FY 2022.

### Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Airport Fund	947	410,158	51,358	378,700	0	0	0	0	378,700	0	431,005
<b>Total</b>	<b>\$947</b>	<b>\$410,158</b>	<b>\$51,358</b>	<b>\$378,700</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$378,700</b>	<b>\$0</b>	<b>\$431,005</b>

### Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Construction	947	410,158	51,358	378,700	0	0	0	0	378,700	0	431,005
<b>Total</b>	<b>\$947</b>	<b>\$410,158</b>	<b>\$51,358</b>	<b>\$378,700</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$378,700</b>	<b>\$0</b>	<b>\$431,005</b>

### Operating Impact

This Project will have ongoing operating expenses related to the foundation and installation of the modular buildings. As these costs are quantified, adjustments will be brought forward in future budgets as necessary.

<p><b>Relationship to Comprehensive Plan</b>  <b>Primary Connection</b></p> <p>Element: Land Use and Community Design                  Section: Airport                  Goal: L-10                  Policy: L-10.1</p> <p><b>Environmental Impact Analysis:</b>                  This project is expected to have a possible exemption from CEQA under section 15301.</p>	<p><b>Potential Board/Commission Review:</b></p> <p>Planning and Transportation Commission</p>
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# AIRPORT FUND



**Fund:** Airport Enterprise Fund  
**Category:** Airport Facilities  
**Project Location:** 1925 Embarcadero Road  
**Managing Department:** Public Works  
**Initial Project Start:** Summer 2023  
**Initial Project Completion:** Summer 2024  
**Revised Project Start:** N/A  
**Revised Project Completion:** N/A  
**Project Number:** AP-23000

Current Airport Fleet to be replaced by ZEV

## Airport Zero Emission Vehicle Fleet Replacement Program

### Description

The Airport vehicle fleet will be replaced by three zero emissions vehicles (ZEV) and three electric charging stations. The van is used for the transportation of airport guests and passengers and improves safety by minimizing foot traffic on the airport apron. The truck is used as a maintenance, first response, and operations vehicle. The ZEV fleet will include one passenger vehicle and two trucks.

### Justification

The current Airport fleet is at the end of its useful life and requires replacement. The FAA has invited the Palo Alto Airport to apply for their Zero Emission Vehicle and Infrastructure (ZEV) funding program which will reimburse at least 90% of the project costs.

Currently Airport Operations Staff use one truck for various roles, which can increase response time during incidents. This truck will be replaced with two trucks, one as a first response vehicle, and the second as an operations and maintenance vehicle. Having two trucks will increase safety and reduce response time at the field since the first response vehicle will not need to be switched over from maintenance and can be ready for first response at all times.

### Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Airport Fund</b>	25,957	61,351	61,351	8,688	0	0	0	0	8,688	0	95,996
<b>Revenue from the Federal Government</b>	0	281,700	125,053	156,647	0	0	0	0	156,647	0	281,700
<b>Total</b>	<b>\$25,957</b>	<b>\$343,051</b>	<b>\$186,404</b>	<b>\$165,335</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$165,335</b>	<b>\$0</b>	<b>\$377,696</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Other	25,957	343,051	186,404	165,335	0	0	0	0	165,335	0	377,696
<b>Total</b>	<b>\$25,957</b>	<b>\$343,051</b>	<b>\$186,404</b>	<b>\$165,335</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$165,335</b>	<b>\$0</b>	<b>\$377,696</b>

### Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

<p><b>Relationship to Comprehensive Plan</b>  <b>Primary Connection</b>                  Element: Natural Environment                  Section: Air Quality                  Goal: N-5                  Policy: N-5.2</p>	<p><b>Potential Board/Commission Review:</b>                  Planning and Transportation Commission                  Fleet Review Committee</p>
<p><b>Environmental Impact Analysis:</b>                  This project is expected to have a possible exemption from CEQA under Section 15301.</p>	



**Fund:** Airport Enterprise Fund  
**Category:** Airport Facilities  
**Project Location:** 1925 Embarcadero Road  
**Managing Department:** Public Works  
**Initial Project Start:** Fall 2019  
**Initial Project Completion:** Summer 2020  
**Revised Project Start:** Fall 2024  
**Revised Project Completion:** Summer 2026  
**Project Number:** AP-19000

Automated Weather Observation System, July 2017

# Automated Weather Observation System (AWOS)

## Description

This project provides funding for a new weather information system to be installed at the Palo Alto Airport.

## Justification

The FAA tower is staffed from 7:00am to 9:00pm and uses ceilometers, wind indicators, altimeters, and known distances to communicate weather and visibility to users. The new Automated Weather Observation System (AWOS) will provide users more information about weather conditions, feed all weather services, and give present weather 24 hours a day, 7 days a week. Providing users with accurate and up-to-date weather information is essential to the safe and economic operation of the airport.

## Supplemental Information

This project will allow a 24-hour fully configurable airport weather observation system (AWOS) that provides continuous, real time information and reports on airport weather conditions. The weather information is run through an algorithm, and the AWOS issues reports on weather conditions at the airport known as METARs. AWOS METARS are one-minute weather observations broadcast over UHF or VHF radio and by telephone and available to all members of the public. FAA-certificated AWOS systems are required by law to be operated and maintained at the same standard levels as Federally owned and operated systems. The replacement of Precision Approach Path Indicators (PAPI) and runway end identifier lights which are required FAA navigational aids, was added to the project.

This necessary information is provided to flight service stations, pilot briefings, National Weather Service forecasting and other weather services, thereby providing accurate and up to date weather information that is essential to the safe and economic operation of the Airport. This weather system has been strongly requested by the users of the Airport.

The addition of the replacement of Precision Approach Path Indicators (PAPI) and runway end identifier lights (REILs) are necessary because the present condition of the existing equipment is beyond its useable life span and needs to be replaced immediately. The lights are extremely difficult to service and parts are not readily available.

**Significant Changes**

**2025-2029 CIP:** Project Funding was increased by approximately \$1.0 million for a total project cost of \$1.5 million. Funding is needed for additional scope related to the replacement of Precision Approach Path Indicators (PAPI) and runway end identifier lights..

**2021-2025 CIP:** Project Funding was split between two phases. Phase I for design and Phase II for construction.

**2020-2024 CIP:** This project was moved from FY 2024 to FY 2022 by the FAA so that grant funding for 90 percent of the project cost will most likely be available. Design will begin in FY 2022 and construction will begin in FY 2023.

**2019-2023 CIP:** The FAA is deferring grant funding for this project from FY 2019 to FY 2024 to complete the Airport Apron Reconstruction project (AP-16000).

Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Airport Fund	0	123,059	123,059	174,425	0	0	0	0	174,425	0	297,484
Revenue from the Federal Government	0	391,050	49,211	1,241,839	0	0	0	0	1,241,839	0	1,291,050
<b>Total</b>	<b>\$0</b>	<b>\$514,109</b>	<b>\$172,270</b>	<b>\$1,416,264</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,416,264</b>	<b>\$0</b>	<b>\$1,588,534</b>

Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Construction	0	401,852	60,012	1,416,264	0	0	0	0	1,416,264	0	1,476,276
Design	0	112,257	112,257	0	0	0	0	0	0	0	112,257
<b>Total</b>	<b>\$0</b>	<b>\$514,109</b>	<b>\$172,269</b>	<b>\$1,416,264</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,416,264</b>	<b>\$0</b>	<b>\$1,588,533</b>

**Operating Impact**

This project is anticipated to have annual operating expenses related to maintenance and certification after project completion. These costs will be brought forward in future budgets, as necessary.

# AIRPORT FUND

**Relationship to Comprehensive Plan  
Primary Connection**

Element: Land Use and Community  
Design  
Section: Airport  
Goal: L-10  
Policy: L-10.1

**Potential Board/Commission Review:**

Planning and Transportation  
Commission  
Architectural Review Board

**Environmental Impact Analysis:**

May Require Environmental Review

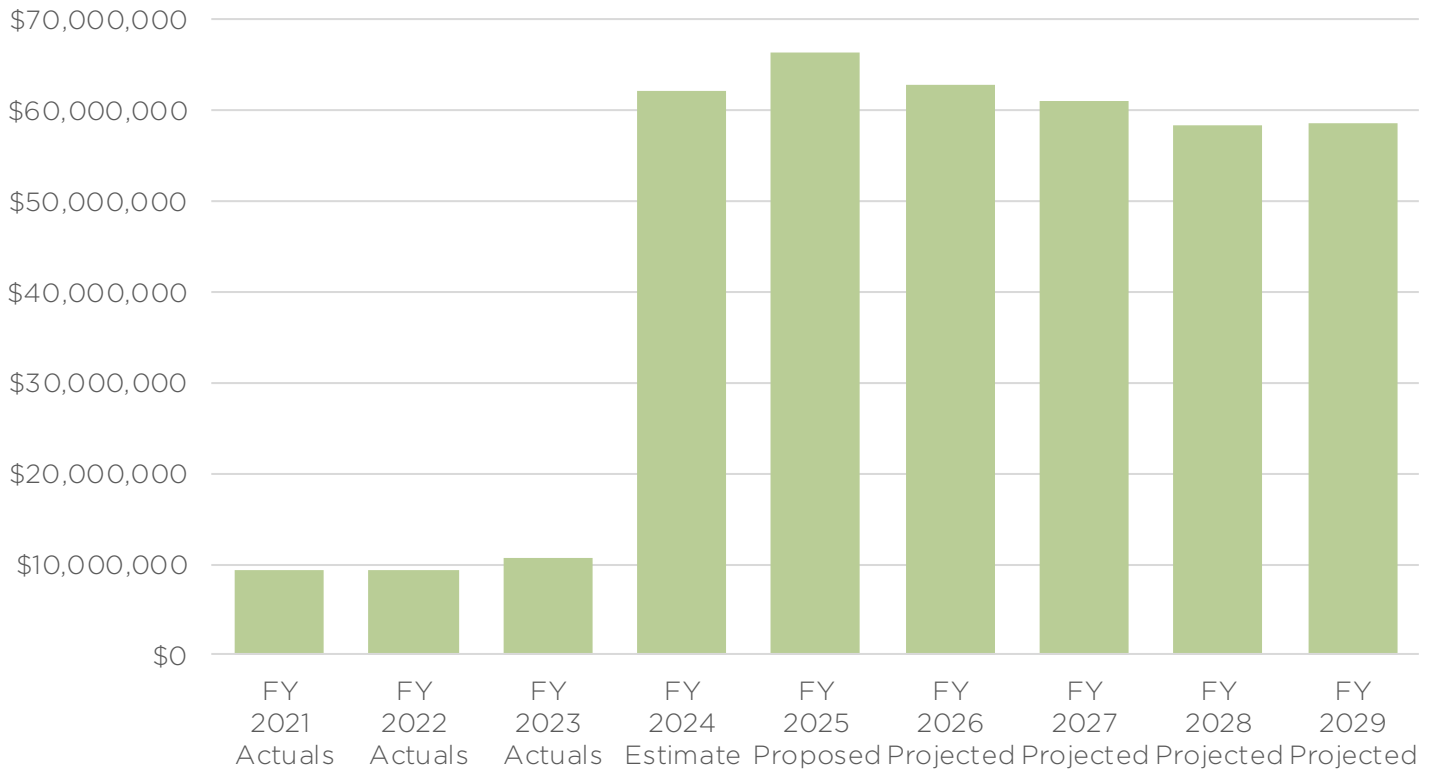
# ELECTRIC FUND

# ELECTRIC FUND

## Overview

The City of Palo Alto offers a full array of utility services to its citizens and businesses. The municipal electric power system began operation in 1900 and continues to provide safe, reliable, and cost effective electric service to residents and customers of Palo Alto. For the 2025-2029 Capital Improvement Program (CIP), approximately \$307.0 million is projected, with \$66.4 million budgeted in Fiscal Year 2025. Overall, a total of 17 projects are planned over the 5-year CIP.

## Electric Fund Expenditures



Major projects funded in the 2025-2029 CIP include the Grid Modernization Project (\$240.0 million), Substation Improvement projects (\$18.3 million), Electric Customer Connections (\$13.6 million), Electric System Improvements (\$15.9 million), Foothills Rebuild Fire Mitigation (\$7.7 million), Underground System Rebuild projects (\$1.8 million), Wood Pole Replacement (\$3.8 million), and Smart Grid Technology Installation (\$2.5 million). The budget for the Electric Fund CIP is categorized into three types of projects: Customer Connections, System Improvements, and Undergrounding Projects.

## Infrastructure Inventory

CLASSIFICATION	QUANTITY
Miles of 60kV sub transmission lines	19 miles
Substations (w/300 MVA total capacity)	9
Traffic Signals (intersections) maintained	101
Streetlights maintained	6,922



## Infrastructure Inventory

CLASSIFICATION	QUANTITY
Overhead Primary Distribution	116 miles
Underground Primary Distribution	199 miles
Overhead Secondary Distribution	93 miles
Underground Secondary Distribution	84 miles

## Customer Connections

As customers' electric power needs continually change due to equipment additions, new construction, building expansions, building remodels, teardowns and rebuilds, and new building occupancy types, the electric system must evolve to meet these needs.

The Electric Customer Connections Project is the only project within this category (Fiscal Year 2025: \$2.7 million; 5-Year CIP: \$13.6 million). Projects range from new buildings associated with larger commercial buildings to residential electric panel upgrades. These projects allow for the completion of work required to meet the needs of customers who have applied for new or upgraded electric service, need temporary power for construction, or require other services. The Electric Fund pays for a portion of these projects, while remaining costs are supported by reimbursements from customers for project work performed by the City.

Electric Engineering received 5 applications for small cell attachments to Electric utility streetlight and wood poles in FY 2023. These applications are still under review. The Electric Utility has about 5,903 wood poles and 6,922 streetlight poles citywide, which are of interest to mobile phone companies. This trend of small cell applications is anticipated to rapidly increase in the next few years, which would increase both the workload and associated revenue in the Electric Customer Connections project.

### Recent Accomplishments

- Completed approximately 441 customer service projects at a cost of approximately \$1.2 million in Fiscal Year 2023.

## 2025-2029 Capital Improvement Program

### Recurring Projects

There is one recurring project in the Electric Customer Connections category in the 2025-2029 CIP (Fiscal Year 2025 \$2.7 million; 5-Year CIP: \$13.6 million), which is comprised of individual customer projects and budgeted based on historical customer applications for service.

## System Improvements

Key elements for ensuring reliable electric service to City of Palo Alto residents and customers include replacing electric system components before they reach their end of life; ensuring there is adequate capacity for the projected electric load; and installing protective equipment to minimize the impact of system problems. Projects in the System Improvements category allow for a variety of improvements, including the replacement/upgrade of old cables and equipment and bringing designs up to current standards, installation of protective equipment and switches, conversion of the electric system from 4,160 Volts (4kV) to 12,470 Volts (12kV), and installation of capacitors to improve efficiency.

The 2025-2029 CIP includes total funding of \$293.5 million in this category, with \$66.4 million allocated in Fiscal Year 2025. Significant projects in this category include Grid Modernization (\$40.0 million), Foothills Rebuild

## ELECTRIC FUND

(\$7.7 million), Substation Physical Security (\$3.3 million), Smart Grid Technology Installation (\$2.5 million), Electric System Improvements (\$2.5 million), Wood Pole Replacements (\$0.7 million), Substation Breaker Replacements (\$2.5 million), and various projects to substation components.

The 2025-2029 CIP includes the Grid Modernization project that will perform the necessary electric system upgrades needed to support the City's transition to a citywide residential electrification scenario, which has major impacts on the City's electric transmission and distribution grid. This project will include studies to evaluate the impacts of projected electrification loads on the City's distribution and substation transformers, primary/secondary distribution circuits, and lead to proposals for upgrades necessary to mitigate overloads. The estimated cost to construct the necessary electric system upgrades for a 100% electrification scenario is \$300 - \$350 million, for which the City is exploring alternative funding options such as debt financing.

### Recent Accomplishments

- Installed potential transformers and station power transformers for bus 1 and bus 2 at Colorado Power Station for power reliability.
- Replaced and upgraded approximately 21 deteriorated utility wood poles.
- Completed Part 1 and 2 of the Electrification study which evaluated the impacts of electrification loads on Palo Alto's distribution and substation transformers, primary/secondary distribution circuits, and also includes proposes upgrades needed to mitigate overloads.
- Replaced remote terminal units (RTU) for SCADA system at Hanover Substation.
- Installed fiber optic cable between Maybell and Park Boulevard Substations to improve relay and SCADA communications.
- Installed Nexus Power Quality meters at Hansen Way and Colorado Substations to provide essential power quality information such as voltage dips and faults at the feeder level.
- Installed seven capacitor banks at several substations for power factor monitoring to keep the electrical system within compliance.

## 2025-2029 Capital Improvement Program

### Recurring Projects

A total of \$27.8 million is programmed for System Improvements recurring projects in the 2025-2029 CIP, with \$5.3 million allocated in Fiscal Year 2025. Recurring projects in this category include the following:

- Communication System Improvements (Fiscal Year 2025: \$0.1 million; 5-Year CIP: \$0.5 million)
- Electric System Improvements (Fiscal Year 2025: \$2.9 million; 5-Year CIP: \$15.9 million)
- Electric Utility Geographic Information System (Fiscal Year 2025 \$0.2 million; 5-Year CIP: \$1.0 million)
- SCADA System Upgrades (Fiscal Year 2025 \$0.2 million; 5-Year CIP: \$1.3 million)
- Substation Facility Improvements (Fiscal Year 2025: \$0.4 million; 5-Year CIP: \$2.0 million)
- Substation Protection Improvements (Fiscal Year 2025: \$0.3 million; 5-Year CIP: \$1.6 million)
- Underground System Rebuild (Fiscal Year 2025: \$0.3 million; 5-Year CIP: \$1.8 million)
- Wood Pole Replacements (Fiscal Year 2025: \$0.7 million; 5-Year CIP: \$3.8 million)

### Non-Recurring Projects

A total of \$265.6 million is programmed in the 2025-2029 CIP for non-recurring System Improvement projects, with \$58.4 million allocated in Fiscal Year 2025. Significant projects include :

- Grid Modernization for Electrification: (Fiscal Year 2025: \$40.0 million; 5-year CIP: \$240.0 million)

- Substation Physical Security: (Fiscal Year 2025: \$3.2 million; 5-year CIP: \$4.1 million)
- Substation Breaker Replacement: (Fiscal Year 2025: \$2.5 million; 5-year CIP: \$4.5 million)
- Colorado Power Station Equipment Upgrades: (Fiscal Year 2025: \$2.0 million; 5-year CIP: \$5.1 million)
- Rebuild Underground Districts: (Fiscal Year 2025: \$1.0 million; 5-Year CIP: \$5.1 million)
- Smart Grid Technology: (Fiscal Year 2025: \$2.5 million)
- Foothills Rebuild Fire Mitigation (Fiscal Year 2025: \$7.7 million)

## Undergrounding Projects

The City of Palo Alto began a program to underground overhead electric, telephone, and cable TV facilities in 1965 with a project along Oregon Expressway. Since that time, 47 Underground Districts have been formed. The undergrounding of electrical lines is a joint process between the City and AT&T, due to joint ownership of the poles, and Comcast, which leases pole space from AT&T. All three entities share in the cost of the installation of underground conduit and boxes necessary to enclose and protect wires and equipment. The City typically takes the lead in the design, bidding, and construction processes with AT&T and Comcast reimbursing the City for construction and administrative costs. To align with current staffing levels and project priorities, underground districts 42 and 43 are incorporated into the Grid Modernization Project (EL-24000) with design to begin in FY 2026. Construction timeline will be updated as more information is available.

## Electric Fund

Project Number	Project Title	FY 2024 Budget	FY 2024 Estimate	FY 2025 Proposed	FY 2026	FY 2027	FY 2028	FY 2029	5-Year Total
<b>SOURCE OF FUNDS</b>									
<b>Other</b>									
EL-89028	Electric Customer Connections	1,700,000	1,700,000	1,700,000	1,700,000	1,700,000	1,700,000	1,700,000	8,500,000
EL-24000	Grid Modernization for Electrification	25,000,000	0	40,000,000	25,000,000	25,000,000	25,000,000	25,000,000	140,000,000
EL-19004	Wood Pole Replacement	150,000	150,000	150,000	150,000	150,000	150,000	150,000	750,000
<b>Other Total</b>		<b>\$26,850,000</b>	<b>\$1,850,000</b>	<b>\$41,850,000</b>	<b>\$26,850,000</b>	<b>\$26,850,000</b>	<b>\$26,850,000</b>	<b>\$26,850,000</b>	<b>\$149,250,000</b>
<b>Total Sources</b>		<b>\$26,850,000</b>	<b>\$1,850,000</b>	<b>\$41,850,000</b>	<b>\$26,850,000</b>	<b>\$26,850,000</b>	<b>\$26,850,000</b>	<b>\$26,850,000</b>	<b>\$149,250,000</b>
<b>USE OF FUNDS</b>									
<b>Customer Connections</b>									
EL-89028	Electric Customer Connections	5,865,825	5,865,825	2,700,000	2,700,000	2,700,000	2,700,000	2,781,000	13,581,000
<b>Customer Connections Total</b>		<b>\$5,865,825</b>	<b>\$5,865,825</b>	<b>\$2,700,000</b>	<b>\$2,700,000</b>	<b>\$2,700,000</b>	<b>\$2,700,000</b>	<b>\$2,781,000</b>	<b>\$13,581,000</b>
<b>System Improvements</b>									
EL-06001	115 kV Electric Intertie	341,335	341,335	250,000	283,300	250,000	0	0	783,300
EL-16002	Capacitor Bank Installation	62,855	62,855	0	0	0	0	0	0
EL-22002	Colorado Distribution Feeder Outlet Replacement	389,424	389,424	0	0	0	0	0	0
EL-19001	Colorado Power Station Equipment Upgrades	1,850,000	1,850,000	2,000,000	2,000,000	1,100,000	0	0	5,100,000

# ELECTRIC FUND

## Electric Fund *(Continued)*

Project Number	Project Title	FY 2024 Budget	FY 2024 Estimate	FY 2025 Proposed	FY 2026	FY 2027	FY 2028	FY 2029	5-Year Total
EL-19002	Colorado Substation Site Improvements	1,165,000	1,165,000	0	0	0	0	0	0
EL-89031	Communications System Improvements	150,000	150,000	100,000	100,000	103,000	107,000	110,210	520,210
EL-98003	Electric System Improvements	4,248,732	4,248,732	2,980,070	4,171,450	3,161,670	2,739,650	2,816,950	15,869,790
EL-02011	Electric Utility Geographic Information System	440,889	440,888	165,000	165,000	170,000	238,000	245,140	983,140
EL-21001	Foothills Rebuild (Fire Mitigation)	4,505,495	2,762,617	7,742,878	0	0	0	0	7,742,878
EL-14000	Grid Mod - Coleridge/Cowper/Tennyson 4/12kV Conversion	1,000,000	0	0	0	0	0	0	0
EL-17001	Grid Mod - East Meadow Circles 4/12kV Conversion	1,474,439	150,000	0	0	0	0	0	0
EL-16000	Grid Mod - Rebuild Underground District 26	623,000	120,000	0	0	0	0	0	0
EL-24000	Grid Modernization for Electrification	25,000,000	10,000,000	40,000,000	50,000,000	50,000,000	50,000,000	50,000,000	240,000,000
EL-24001	Hanover Substation Upgrade Project	15,000,000	15,000,000	0	0	0	0	0	0
EL-17005	Inter-substation Line Protection Relay	463,280	463,280	175,000	175,000	200,000	208,000	214,240	972,240
EL-10006	Rebuild Underground District 24	522,000	240,000	0	0	0	0	0	0
EL-02010	SCADA System Upgrades	282,229	282,229	225,000	185,000	220,000	308,000	317,240	1,255,240
EL-11014	Smart Grid Technology Installation	12,396,094	11,685,917	2,451,162	0	0	0	0	2,451,162
EL-17002	Substation Breaker Replacement	2,477,480	1,340,000	2,487,480	1,000,000	1,000,000	0	0	4,487,480
EL-89044	Substation Facility Improvements	1,303,605	1,303,605	400,000	400,000	412,000	430,000	442,900	2,084,900
EL-16003	Substation Physical Security	4,021,348	1,208,773	3,282,365	165,000	300,000	189,150	169,950	4,106,465
EL-89038	Substation Protection Improvements	633,747	633,747	300,000	300,000	309,000	320,000	329,600	1,558,600
EL-16001	Underground System Rebuild	350,000	350,000	350,000	350,000	350,000	364,000	374,920	1,788,920
EL-19004	Wood Pole Replacement	1,983,301	1,983,301	750,000	750,000	750,000	750,000	750,000	3,750,000
<b>System Improvements Total</b>		<b>\$80,684,253</b>	<b>\$56,171,703</b>	<b>\$63,658,955</b>	<b>\$60,044,750</b>	<b>\$58,325,670</b>	<b>\$55,653,800</b>	<b>\$55,771,150</b>	<b>\$293,454,325</b>
<b>Undergrounding Projects</b>									
EL-12001	Underground District 46 - Charleston/EI Camino Real	1,367	1,367	0	0	0	0	0	0
<b>Undergrounding Projects Total</b>		<b>\$1,367</b>	<b>\$1,367</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
<b>Total Uses</b>		<b>\$86,551,445</b>	<b>\$62,038,895</b>	<b>\$66,358,955</b>	<b>\$62,744,750</b>	<b>\$61,025,670</b>	<b>\$58,353,800</b>	<b>\$58,552,150</b>	<b>\$307,035,325</b>

# Customer Connections

# ELECTRIC FUND



**Fund:** Electric Fund  
**Category:** Customer Connections  
**Project Location:** Various locations  
**Managing Department:** Utilities  
**Initial Project Start:** Recurring  
**Initial Project Completion:** Recurring  
**Revised Project Start:** N/A  
**Revised Project Completion:** N/A  
**Project Number:** EL-89028

Electric Troublemaker installing an electric meter to provide service to a customer

## Electric Customer Connections

### Description

This project allows for the installation of services, transformers, meters for new customers, upgrades of existing services, temporary service connections, and overhead/underground extensions for new/existing customers.

### Justification

The project provides funding for installing electric services for new customer connections and the upgrading of existing services. These are critical functions for providing electrical service to the City’s customers. During a typical year, over 200 electric services are installed or upgraded in the City.

### Supplemental Information

Budget amounts requested for work covered by this project are based on historical expenditures and growth projections. The Electric Fund pays for a portion of this project while remaining costs are supported by reimbursements from customers, telephone, and cable television companies for project work performed by the City.

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Electric Fund</b>	N/A	4,165,827	4,165,827	1,000,000	1,000,000	1,000,000	1,000,000	1,081,000	5,081,000	0	N/A
<b>Other</b>	N/A	1,700,000	1,700,000	1,700,000	1,700,000	1,700,000	1,700,000	1,700,000	8,500,000	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$5,865,827</b>	<b>\$5,865,827</b>	<b>\$2,700,000</b>	<b>\$2,700,000</b>	<b>\$2,700,000</b>	<b>\$2,700,000</b>	<b>\$2,781,000</b>	<b>\$13,581,000</b>	<b>\$0</b>	<b>N/A</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Construction</b>	N/A	5,165,825	5,165,825	2,700,000	2,700,000	2,700,000	2,700,000	2,781,000	13,581,000	0	N/A
<b>Other</b>	N/A	700,000	700,000	0	0	0	0	0	0	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$5,865,825</b>	<b>\$5,865,825</b>	<b>\$2,700,000</b>	<b>\$2,700,000</b>	<b>\$2,700,000</b>	<b>\$2,700,000</b>	<b>\$2,781,000</b>	<b>\$13,581,000</b>	<b>\$0</b>	<b>N/A</b>

### Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

<p><b>Relationship to Comprehensive Plan</b>  <b>Primary Connection</b></p> <p>Element: Natural Environment                  Section: Energy                  Goal: N-7                  Policy: N-7.1</p> <p><b>Environmental Impact Analysis:</b>                  This project is expected to have a possible exemption from CEQA under Section 15302.</p>	<p><b>Potential Board/Commission Review:</b></p> <p>Planning and Transportation Commission                  Utilities Advisory Commission</p>
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CITY OF  
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# System Improvements

## ELECTRIC FUND



**Fund:** Electric Fund

**Category:** System Improvements

**Project Location:** National Accelerator Laboratory Substation

**Managing Department:** Utilities

**Initial Project Start:** Spring 2013

**Initial Project Completion:** Fall 2015

**Revised Project Start:** Spring 2024

**Revised Project Completion:** Winter 2027

**Project Number:** EL-06001

Possible electric substation connection point to existing 60 kV system

# 115 kV Electric Intertie

## Description

Funding for this project is used to perform technical feasibility studies to determine the general project requirements to establish another transmission line to the City of Palo Alto along a different transmission corridor. The City's discussions with Stanford University and Stanford Linear Accelerator Laboratory (SLAC), on sharing interest and benefits in a new 230kV intertie have come to an end with the decision by Stanford to withdraw from the project. Staff is seeking funding for an alternative solution to provide a second 115kV transmission source to Palo Alto.

## Justification

This transmission line will provide the City with an alternate source of power during emergencies, such as the plane crash in 2010 that impacted electric power to the entire City.

## Significant Changes

**2024-2028 CIP:** Project reduced by approximately \$6.6 million to \$1.8 million and postponed pending re-engagement with the California Independent System Operator (CAISO) to re-do designs and address potential cost sharing.

**2023-2027 CIP:** Project budget increased by approximately \$1.4 million to a total of \$8.4 million and the completion date extended from Winter 2025 to Winter 2027 for updated estimated cost and time needed to install the alternate 115kV Intertie.

**2022-2026 CIP:** Project renamed from 230kV Electric Intertie to 115kV Electric Intertie. The engineering staff is assessing the feasibility of an alternative 115kV interconnection from the south of the City, to be followed with a request submittal to the California Independent System Operator (CAISO). The budget reflects a rough cost estimate for the new connection.

**2021-2025 CIP:** Stanford had decided to withdraw from the project. Staff will evaluate alternative solutions with PG&E/CAISO that will require new/updated technical feasibility studies.

**2019-2023 CIP:** The City presented its findings to Stanford and SLAC/DOE and is waiting for a response from SLAC to determine whether this project will move forward.

**2017-2021 CIP:** Project completion has been moved out as discussions with Stanford and SLAC/DOE are ongoing and no agreement has been finalized. Cooperation between these two entities is necessary for this project to move forward.

### Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Electric Fund</b>	389,999	341,335	341,335	250,000	283,300	250,000	0	0	783,300	0	1,514,634
<b>Total</b>	<b>\$389,999</b>	<b>\$341,335</b>	<b>\$341,335</b>	<b>\$250,000</b>	<b>\$283,300</b>	<b>\$250,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$783,300</b>	<b>\$0</b>	<b>\$1,514,634</b>

### Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Construction</b>	274,553	34,952	34,952	250,000	283,300	250,000	0	0	783,300	0	1,092,805
<b>Design</b>	115,437	306,383	306,383	0	0	0	0	0	0	0	421,820
<b>Total</b>	<b>\$389,990</b>	<b>\$341,335</b>	<b>\$341,335</b>	<b>\$250,000</b>	<b>\$283,300</b>	<b>\$250,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$783,300</b>	<b>\$0</b>	<b>\$1,514,625</b>

### Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

<p><b>Relationship to Comprehensive Plan</b>  <b>Primary Connection</b>                  Element: Natural Environment                  Section: Energy                  Goal: N-7                  Policy: N-7.1</p>	<p><b>Potential Board/Commission Review:</b>                  Planning and Transportation Commission                  Utilities Advisory Commission</p>
<p><b>Environmental Impact Analysis:</b>                  This project is expected to have a possible exemption from CEQA under Section 15301.</p>	



**Fund:** Electric Fund  
**Category:** System Improvements  
**Project Location:** Colorado Substation  
**Managing Department:** Utilities  
**Initial Project Start:** Fall 2018  
**Initial Project Completion:** Fall 2019  
**Revised Project Start:** N/A  
**Revised Project Completion:** Fall 2027  
**Project Number:** EL-19001

Colorado Power Substation

# Colorado Power Station Equipment Upgrades

## Description

This project will replace aging major asset equipment at the Colorado Power Station. The Colorado Power Station is on the 115kV/60kV transmission side of the Colorado Substation, which transforms the electricity to a lower sub-transmission voltage that feeds the individual distribution stations around the City.

## Justification

A project was created in 2015 to replace all the original primary and secondary bushings. With these preventative maintenance and operating practices, the transformers life expectancy would be extended; however, the condition of the auxiliary equipment was poorer than anticipated. The tanks and radiators are rusty and the paint is chalky and faded, leading to the breakdown of the steel. The transformers have many minor oil leaks around the radiator flanges, inspection covers and valve packings from old and compressed cork gaskets. The leaks are a potential environmental hazard if the oil migrates to the ground and into storm water. Additionally, wherever oil leaks out, water can seep in. This will eventually increase the moisture in the oil that could result in failure of the transformer. The temperature and level gauges show signs of long term UV exposure and the plastics have become brittle and cracked.

However, in 2018 transformer bank #2 failed, and funds for refurbishment were redirected to the emergency replacement. When comparing the cost of refurbishment versus replacement, it was determined that refurbishment was much more costly than replacement for this type of large electric substation equipment.

## Significant Changes

**2024-2028 CIP:** Project completion pushed out slightly from Spring 2027 to Fall 2027 to align with staffing resources and budget decreased by approximately \$0.9 million to \$11.5 million to align with fiscal resources.

**2023-2027 CIP:** The project budget increased by \$1.5 million to a total of \$12.4 million for transformer #3 and 115kV breaker replacement.

**2022-2026 CIP:** The early replacement of transformer bank #3 has been deferred to FY 2023. Engineering staff will also study the potential retirement of transformer bank #1 as it reaches the end of its expected useful life.

**2021-2025 CIP:** Due to the discoveries made during replacement of transformer #2, staff is assessing the need and timing of the replacement of transformer #3 and the associated 115kV circuit breaker GCB-3. Funding requested in FY 2021 is considering the possibility of early replacement.

**2020-2024 CIP:** The replacement of aging peripheral equipment at the Colorado Power Station has been re-assigned to replacing the failed COP-2 transformer. The unexpected cost of replacing the failed transformer increased the project from \$0.9 million to \$2.5 million. The aging peripheral equipment will be dealt with in a future year.

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Electric Fund</b>	3,493,885	1,850,000	1,850,000	2,000,000	2,000,000	1,100,000	0	0	5,100,000	0	10,443,885
<b>Other</b>	850,000	0	0	0	0	0	0	0	0	0	850,000
<b>Total</b>	<b>\$4,343,885</b>	<b>\$1,850,000</b>	<b>\$1,850,000</b>	<b>\$2,000,000</b>	<b>\$2,000,000</b>	<b>\$1,100,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$5,100,000</b>	<b>\$0</b>	<b>\$11,293,885</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Construction</b>	4,222,158	1,850,000	1,850,000	2,000,000	2,000,000	1,100,000	0	0	5,100,000	0	11,172,158
<b>Design</b>	121,715	0	0	0	0	0	0	0	0	0	121,715
<b>Total</b>	<b>\$4,343,873</b>	<b>\$1,850,000</b>	<b>\$1,850,000</b>	<b>\$2,000,000</b>	<b>\$2,000,000</b>	<b>\$1,100,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$5,100,000</b>	<b>\$0</b>	<b>\$11,293,873</b>

## Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

### Relationship to Comprehensive Plan Primary Connection

Element: Natural Environment  
Section: Energy  
Goal: N-7  
Policy: N-7.3

### Potential Board/Commission Review:

Planning and Transportation  
Commission  
Utilities Advisory Commission

### Environmental Impact Analysis:

This project is expected to have a possible exemption from CEQA under Section 15301.

# ELECTRIC FUND



**Fund:** Electric Fund  
**Category:** System Improvements  
**Project Location:** Various locations  
**Managing Department:** Utilities  
**Initial Project Start:** Recurring  
**Initial Project Completion:** Recurring  
**Revised Project Start:** N/A  
**Revised Project Completion:** N/A  
**Project Number:** EL-89031

Traffic/Fiber technicians repairing the city fiber optic cables

## Communications System Improvements

### Description

This project installs copper wire cable systems, high frequency coaxial cable, fiber optic cable, and related equipment to provide communications services for traffic signal coordination, telephone links, computer data transmission, and the Electric Supervisory Control and Data Acquisition (SCADA) system.

### Justification

Installation of communication lines is essential for the provision of City services. The broadband system provides communication between the Utility Control Center to substations and field equipment and between substation protection equipment. This annual project funds, as necessary, expansion of the system and replacement of deteriorating facilities.

### Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Electric Fund</b>	N/A	150,000	150,000	100,000	100,000	103,000	107,000	110,210	520,210	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$150,000</b>	<b>\$150,000</b>	<b>\$100,000</b>	<b>\$100,000</b>	<b>\$103,000</b>	<b>\$107,000</b>	<b>\$110,210</b>	<b>\$520,210</b>	<b>\$0</b>	<b>N/A</b>

### Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Construction</b>	N/A	150,000	150,000	100,000	100,000	103,000	107,000	110,210	520,210	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$150,000</b>	<b>\$150,000</b>	<b>\$100,000</b>	<b>\$100,000</b>	<b>\$103,000</b>	<b>\$107,000</b>	<b>\$110,210</b>	<b>\$520,210</b>	<b>\$0</b>	<b>N/A</b>

## Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

### Relationship to Comprehensive Plan Primary Connection

Element: Natural Environment  
Section: Energy  
Goal: N-7  
Policy: N-7.1

### Potential Board/Commission Review:

Planning and Transportation  
Commission  
Utilities Advisory Commission

### Environmental Impact Analysis:

This project is expected to have a possible exemption from CEQA under Section 15302.

## ELECTRIC FUND



**Fund:** Electric Fund  
**Category:** System Improvements  
**Project Location:** Various locations  
**Managing Department:** Utilities  
**Initial Project Start:** Recurring  
**Initial Project Completion:** Recurring  
**Revised Project Start:** N/A  
**Revised Project Completion:** N/A  
**Project Number:** EL-98003

Electric crews working in an underground vault terminating cables

# Electric System Improvements

## Description

This project provides funding, as needed, to improve the Electric Distribution System. Typical activities include: increasing system capacity for load growth, replacing deteriorated capital facilities, reconfiguring/adding to the system to improve service reliability, repairing and replacing storm damaged equipment, and making general improvements to the system.

## Justification

Electric system service reliability and adequate system capacity are critical to providing a high level of service to customers in Palo Alto. When service interruptions occur, customers may experience significant economic losses. The City must continuously evaluate service reliability needs and make improvements to the system to maintain top-level service to City customers.

## Supplemental Information

Other funding sources include reimbursements from the telephone company for work performed on their behalf by City staff.

## Significant Changes

**2023-2027 CIP:** Increased funding of \$0.5 million in FY 2023 for electric grid assessment to study the electric distribution network to prepare the grid for electrification, two-way power flow for local generation, and improve overall system reliability.

**2021-2025 CIP:** Increased funding will be used to provide additional service reliability work and load break and fault interrupting switch replacements.



## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Electric Fund</b>	N/A	4,248,734	4,248,734	2,980,070	4,171,450	3,161,670	2,739,650	2,816,950	15,869,790	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$4,248,734</b>	<b>\$4,248,734</b>	<b>\$2,980,070</b>	<b>\$4,171,450</b>	<b>\$3,161,670</b>	<b>\$2,739,650</b>	<b>\$2,816,950</b>	<b>\$15,869,790</b>	<b>\$0</b>	<b>N/A</b>

## Expenditure Schedule

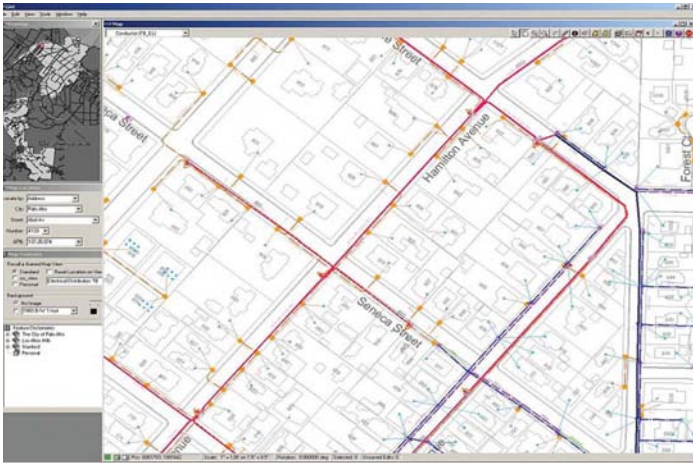
Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Construction</b>	N/A	3,667,015	3,667,015	2,980,070	4,171,450	3,161,670	2,739,650	2,816,950	15,869,790	0	N/A
<b>Design</b>	N/A	119,841	119,841	0	0	0	0	0	0	0	N/A
<b>Other</b>	N/A	461,876	461,876	0	0	0	0	0	0	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$4,248,732</b>	<b>\$4,248,732</b>	<b>\$2,980,070</b>	<b>\$4,171,450</b>	<b>\$3,161,670</b>	<b>\$2,739,650</b>	<b>\$2,816,950</b>	<b>\$15,869,790</b>	<b>\$0</b>	<b>N/A</b>

### Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

<p><b>Relationship to Comprehensive Plan</b>  <b>Primary Connection</b></p> <p>Element: Natural Environment                  Section: Energy                  Goal: N-7                  Policy: N-7.1</p> <p><b>Environmental Impact Analysis:</b>                  This project is expected to have a possible exemption from CEQA under Section 15302.</p>	<p><b>Potential Board/Commission Review:</b></p> <p>Planning and Transportation                  Commission                  Utilities Advisory Commission</p>
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## ELECTRIC FUND



**Fund:** Electric Fund  
**Category:** System Improvements  
**Project Location:** Various locations  
**Managing Department:** Utilities  
**Initial Project Start:** Recurring  
**Initial Project Completion:** Recurring  
**Revised Project Start:** N/A  
**Revised Project Completion:** N/A  
**Project Number:** EL-02011

View of City of Palo Alto GIS System

# Electric Utility Geographic Information System

## Description

This project will enhance the citywide Geographical Information System (GIS). The primary emphasis will be to provide a compatible user interface and estimating software to edit and update data, which will reside in the citywide GIS. The project includes the migration of the existing electric and fiber networks to a unified mapping solution compatible with the citywide GIS.

## Justification

GIS has grown from being a set of special purpose computer applications to being an information tool that serves all segments of the City. Applications have been developed that make GIS information accessible to hundreds of users, which has greatly increased the value of the system. Funding in the CIP is for ongoing mapping system modifications to facilitate technical requirements, external contractor system support, anticipated system upgrades, and to meet future needs and facilitate integration to the new citywide GIS. This could include recommendations for upgrade or replacement of existing systems.

## Significant Changes

**2022-2026 CIP:** In FY 2022, the project budget increased by \$0.1 million to convert the electric information to the Esri Mapping platform.

**2021-2025 CIP:** In conjunction with the City effort to convert the City's GIS data from GIST (Geodesy) to an Esri Mapping platform, Electric Engineering will begin investigating the transition of the electric information to Esri. This transition will eventually support other utility applications, such as the Outage Management System, System Restoration practices, customer notifications, and system modeling and analysis.

**2020-2024 CIP:** The City will move to a new GIS platform, Esri, in FY 2020. Annual funding will support Electric's portion of the implementation and ongoing support of the new GIS system.

### Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Electric Fund</b>	N/A	440,889	440,889	165,000	165,000	170,000	238,000	245,140	983,140	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$440,889</b>	<b>\$440,889</b>	<b>\$165,000</b>	<b>\$165,000</b>	<b>\$170,000</b>	<b>\$238,000</b>	<b>\$245,140</b>	<b>\$983,140</b>	<b>\$0</b>	<b>N/A</b>

### Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Construction</b>	N/A	300,382	300,381	165,000	165,000	170,000	238,000	245,140	983,140	0	N/A
<b>Design</b>	N/A	140,507	140,507	0	0	0	0	0	0	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$440,889</b>	<b>\$440,888</b>	<b>\$165,000</b>	<b>\$165,000</b>	<b>\$170,000</b>	<b>\$238,000</b>	<b>\$245,140</b>	<b>\$983,140</b>	<b>\$0</b>	<b>N/A</b>

### Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

<p><b>Relationship to Comprehensive Plan</b>  <b>Primary Connection</b></p> <p>Element: Community Services &amp; Facilities                  Section: Efficient and Effective Service Delivery                  Goal: C-1                  Policy: C-1.3</p> <p><b>Environmental Impact Analysis:</b>                  This project is expected to have a possible exemption from CEQA under Section 15301.</p>	<p><b>Potential Board/Commission Review:</b></p> <p>Planning and Transportation Commission                  Utilities Advisory Commission</p>
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Overhead electric lines in Foothills Park

**Fund:** Electric Fund  
**Category:** System Improvements  
**Project Location:** Foothills  
**Managing Department:** Utilities  
**Initial Project Start:** Summer 2020  
**Initial Project Completion:** Fall 2022  
**Revised Project Start:** N/A  
**Revised Project Completion:** Summer 2025  
**Project Number:** EL-21001

# Foothills Rebuild (Fire Mitigation)

## Description

Devastating wildfires throughout the State of California have prompted electric utilities throughout the state to identify areas within their jurisdiction that are susceptible to power-line ignited wildfires and to take steps to prevent their occurrence. This project proposes to rebuild the approximately 11 miles of overhead line, as necessary to mitigate the possibility of a wildfire due to overhead electric lines. This could include the utilization of more robust equipment or construction practices; rerouting to avoid vegetation and improve access for inspection and maintenance; or converting the overhead lines to underground where feasible.

## Justification

At the direction of the California Public Utilities Commission (CPUC), all electric Utilities in the state of California were required to review their service territories and determine areas that may be susceptible to wildfire that should be considered for inclusion on statewide Fire Threat Map. The City of Palo Alto Utilities (CPAU), with the assistance of a Fire Science Consultant, determined that the area within our service territory west of Interstate 280 had an "Elevated Risk" (categories: Moderate, Elevated, Extreme) of wildfire, requiring more stringent construction, inspection, and vegetation management requirements.

Subsequent state legislation required all utilities to prepare Wildfire Mitigation Plans outlining the processes and procedures CPAU will undertake to mitigate the threat of wildfires associated with overhead electric lines and equipment. In 2011, CPAU hired a consultant to perform a hazard risk assessment to assess natural and man made hazard risks associated with Utilities department assets, focusing on risk exposure and financial responsibility. Of all of the hazards evaluated, wildfire due to wind and in the foothills posed the highest financial risk.

**Supplemental Information**

This project proposes to solicit a design/build contractor to rebuild/relocate/replace the overhead portions of CPAU electric system serving customers in the High Fire Threat areas of Palo Alto to reduce the probability of a wildfire caused by overhead electric facilities. CPAU will solicit bids from qualified engineering/construction contractors to design, engineer, and construct a 12kV electric distribution line to replace, reinforce, reroute, and in some places expand, the existing city-owned overhead electric and fiber optic lines in the Foothills in Palo Alto.

Design and construction will be performed in several phases, starting with the upper portion of the 12kV line, including a new fiber optic cable installation between two CPAU water reservoirs and working down the hill.

The estimated cost of this project was based on replacement of the existing overhead system with overhead facilities in the same locations. However, relocation or undergrounding of the lines would increase these estimated costs.

Design/build bids from contractors came in high in 2021, so staff recommended to perform the design in-house with contract services procured as-needed for construction.

**Significant Changes**

**2023-2027 CIP:** Project budget increased by approximately \$11.0 million to a total of \$15.0 million and programmed for outer years based on current cost estimates for as-needed external contract services to underground electrical lines in the Foothills. The Fiber Fund will cover one-third, or approximately \$2.0 million, of the substructure costs since it will include conduits for fiber optics, through the Fiber Optics Network project (FO-10001).

**2022-2026 CIP:** Project work for overhead lines will be divided into smaller sections of lines. 800 feet of overhead line has been undergrounded. Staff will continue undergrounding areas in smaller sections and focus on areas based on the fire threat assessment study. This project is anticipated to complete Summer 2025.

**2021-2025 CIP:** Project established.

Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Electric Fund</b>	4,494,101	4,505,496	2,762,618	7,742,878	0	0	0	0	7,742,878	0	14,999,597
<b>Total</b>	<b>\$4,494,101</b>	<b>\$4,505,496</b>	<b>\$2,762,618</b>	<b>\$7,742,878</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$7,742,878</b>	<b>\$0</b>	<b>\$14,999,597</b>

Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Construction</b>	4,426,538	4,505,495	2,762,617	7,742,878	0	0	0	0	7,742,878	0	14,932,033
<b>Design</b>	67,548	0	0	0	0	0	0	0	0	0	67,548
<b>Total</b>	<b>\$4,494,086</b>	<b>\$4,505,495</b>	<b>\$2,762,617</b>	<b>\$7,742,878</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$7,742,878</b>	<b>\$0</b>	<b>\$14,999,581</b>

# ELECTRIC FUND

## Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

<b>Relationship to Comprehensive Plan Primary Connection</b>	<b>Relationship to Comprehensive Plan Secondary Connection</b>	<b>Potential Board/Commission Review:</b>
Element: Safety Section: Natural Hazards Goal: S-2 Policy: S-2.13 Program: S1.3.1	Element: Natural Environment Section: Open Space Goal: N-1 Policy: N-1.1	Planning and Transportation Commission Utilities Advisory Commission
<b>Environmental Impact Analysis:</b> This project is expected to have a possible exemption from CEQA under Section 15302.		

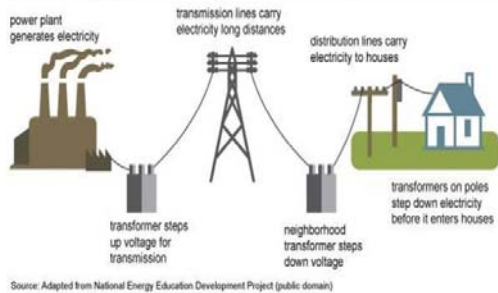


CITY OF  
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ALTO**

# ELECTRIC FUND

## Electrical Overview and Upgrades Needed

### Electricity generation, transmission, and distribution



**Fund:** Electric Fund

**Category:** System Improvements

**Project Location:** Various

**Managing Department:** Utilities

**Initial Project Start:** Winter 2023

**Initial Project Completion:** Winter 2030

**Revised Project Start:** N/A

**Revised Project Completion:** N/A

**Project Number:** EL-24000

### Electric Transmission Process

# Grid Modernization for Electrification

## Description

This project will provide the City with an electric infrastructure adequate to support the City's goal of 100% electrification and 80% carbon emissions reduction by the year 2030. To attain the 100% electrification scenario, the City must maximize use of electric energy and phase out carbon-based end uses such as natural gas appliances and internal combustion vehicles. The electric system must be updated to meet the needs of electrification, and older components in the distribution infrastructure must be replaced to mitigate chances of overloading the system. Examples of assets to be replaced are distribution and substation transformers, primary/secondary distribution circuits. This project will span over 7 years in the residential areas of the city with an estimated budget of \$300 million. To maximize economies of scale and reduce the construction occurrences within a neighborhood, the construction schedule will align with Fiber-to-the-Premise (FTTP) Phase 1 project (FO-24000).

Below is a high-level view of the project phases, a detailed project schedule will be provided when the design is complete.

Overhead - Years 1 through 4, purchase and construction to upgrade all overhead areas

Substation - Years 5 and 6, construction to upgrade substation transformers, purchase equipment in Year 3

Underground - Years 6 and 7, construction to upgrade all underground areas, purchase equipment in Year 5

## Justification

Modernizing the electric system is necessary to improve the efficiency and reliability of the energy used in Palo Alto, and improve the resiliency of the energy system.



**Supplemental Information**

This project was identified in the Sustainability and Climate Action Plan (S/CAP) Goals and Key Actions approved by Council on 10/03/22, which requires grid modernization to increase grid capacity for the expanded use of electricity. Alternative funding sources through debt financing or federal grants will be explored. This project will impact various areas throughout the city and renders some established projects redundant as the scope of those projects overlap with grid modernization, therefore, the following projects' budgets will be returned to reserves.

- (1) EL-14000 Coleridge/Cowper/Tennyson,
- (2) EL-17001 East Meadow Circles,
- (3) EL-11003 Rebuild Underground District 15,
- (4) EL-13003 Rebuild Underground District 16,
- (5) EL-14002 Rebuild Underground District 20,
- (6) EL-17000 Rebuild Underground District 23,
- (7) EL-16000 Rebuild Underground District 26,
- (8) EL-19003 Rebuild Underground District 30
- (9) EL-08001 Underground District 42, and
- (10) EL-08001 Underground District 43

**Significant Changes**

**2025-2029 CIP:** Identified redundant projects and returned budgets to reserve.

**2024-2028 CIP:** Project established reflecting the average estimated annual costs starting FY 2024 and potential funding through debt service, which the City is currently exploring. Amounts may be reallocated between the years based on planned work, which will be aligned at a later time when requests for proposals have been received.

Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Electric Fund</b>	0	0	10,000,000	0	25,000,000	25,000,000	25,000,000	25,000,000	100,000,000	25,000,000	135,000,000
<b>Other</b>	0	25,000,000	0	40,000,000	25,000,000	25,000,000	25,000,000	25,000,000	140,000,000	25,000,000	165,000,000
<b>Total</b>	<b>\$0</b>	<b>\$25,000,000</b>	<b>\$10,000,000</b>	<b>\$40,000,000</b>	<b>\$50,000,000</b>	<b>\$50,000,000</b>	<b>\$50,000,000</b>	<b>\$50,000,000</b>	<b>\$240,000,000</b>	<b>\$50,000,000</b>	<b>\$300,000,000</b>

Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Construction</b>	0	20,000,000	5,000,000	40,000,000	50,000,000	50,000,000	50,000,000	50,000,000	240,000,000	50,000,000	295,000,000

# ELECTRIC FUND

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Design	0	5,000,000	5,000,000	0	0	0	0	0	0	0	5,000,000
<b>Total</b>	<b>\$0</b>	<b>\$25,000,000</b>	<b>\$10,000,000</b>	<b>\$40,000,000</b>	<b>\$50,000,000</b>	<b>\$50,000,000</b>	<b>\$50,000,000</b>	<b>\$50,000,000</b>	<b>\$240,000,000</b>	<b>\$50,000,000</b>	<b>\$300,000,000</b>

### Operating Impact

Operating impacts have not been determined at this time. Estimates may become available after Request for Proposals are issued, and as these costs are quantified, adjustments will be brought forward in future budgets as necessary.

<p><b>Relationship to Comprehensive Plan</b>  <b>Primary Connection</b></p> <p>Element: Natural Environment          Section: Energy          Goal: N-7          Policy: N-7.3</p> <p><b>Environmental Impact Analysis:</b>          Possible exemption from CEQA under Section 15301</p>	<p><b>Potential Board/Commission Review:</b></p> <p>Planning and Transportation          Commission          Utilities Advisory Commission</p>
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CITY OF  
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**Fund:** Electric Fund  
**Category:** System Improvements  
**Project Location:** Various locations  
**Managing Department:** Utilities  
**Initial Project Start:** Summer 2017  
**Initial Project Completion:** Spring 2019  
**Revised Project Start:** Winter 2019  
**Revised Project Completion:** Summer 2029  
**Project Number:** EL-17005

Aging electric equipment

# Inter-substation Line Protection Relay

## Description

This project funds the replacement of existing wire relays with new microprocessor-based line differential protective relays to protect the City's 60kV sub-transmission line sections and equipment from damage due to faults (i.e. short circuits) on the 60kV line sections.

## Justification

The existing electro-mechanical wire differential relays are approaching the end of their useful life and rely on a copper pilot wire cable system running between each substation to maintain communication between the relay pairs located at the ends of each 60kV line section. These pilot wire cables have aged significantly and are the source of repeated failures due to corrosion in connections and splices, which cause open circuits, particularly during the rainy season. During these periods of interrupted pilot wire communication, the existing pilot wire relays do not provide adequate back-up protection, putting the City at risk of an outage should a fault occur on the 60kV line section.

## Significant Changes

**2025-2029 CIP:** Construction of the line sections for Maybell and Park Boulevard, Adobe Creek and Colorado, and Quarry and Park Boulevard substations are scheduled for FY 2025. The project is slightly delayed due to new staffing and other higher priority projects such as Hanover Substation Upgrade (EL-24001) and Grid Modernization (EL-24000).

**2023-2027 CIP:** Project increased by approximately \$0.8 million to a total of \$1.6 million, and budget programmed for outer years to continue the next highest priority sections targeting approximately three line sections to be completed each year.

**2022-2026 CIP:** Installation for five of the 13 line sections has been completed. Work will continue on the next highest priority sections with the expectation that approximately three line sections will be completed each year. Engineering and Operations are now working on design and installation of the relays at Adobe Creek and Colorado, Maybell and Park Boulevard, and Quarry and Park Boulevard substations.

**2021-2025 CIP:** Installation for three of the 13 line sections has been completed. Work will continue on the next highest priority sections with the expectation that approximately three line sections will be completed each year. This work requires the availability of fiber optic cable at each substation, which will be coordinated with the work undertaken to develop the Utilities Fiber Optic network.

**2020-2024 CIP:** Project title change from HCB Pilot Wire Relay Replacement to Inter-substation Line Protection Relay. The scope and funding for the project have increased as staff has determined that replacing the entire 60kV protection system is the best way to ensure reliable service.

**2019-2023 CIP:** Staff completed the relay replacements between Quarry and Hopkins Substations, installation of fiber optic communication cables between Colorado, Maybell, East Meadow and Adobe Creek Substations, and is now working on installation of the relays at Maybell and East Meadow and placing them in service.

**2017-2021 CIP:** Project established.

### Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Electric Fund</b>	370,368	463,280	463,280	175,000	175,000	200,000	208,000	214,240	972,240	0	1,805,888
<b>Total</b>	<b>\$370,368</b>	<b>\$463,280</b>	<b>\$463,280</b>	<b>\$175,000</b>	<b>\$175,000</b>	<b>\$200,000</b>	<b>\$208,000</b>	<b>\$214,240</b>	<b>\$972,240</b>	<b>\$0</b>	<b>\$1,805,888</b>

### Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Construction</b>	275,578	444,000	444,000	175,000	175,000	200,000	208,000	214,240	972,240	0	1,691,818
<b>Design</b>	94,768	19,280	19,280	0	0	0	0	0	0	0	114,048
<b>Total</b>	<b>\$370,346</b>	<b>\$463,280</b>	<b>\$463,280</b>	<b>\$175,000</b>	<b>\$175,000</b>	<b>\$200,000</b>	<b>\$208,000</b>	<b>\$214,240</b>	<b>\$972,240</b>	<b>\$0</b>	<b>\$1,805,866</b>

### Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

# ELECTRIC FUND

**Relationship to Comprehensive Plan  
Primary Connection**

Element: Natural Environment  
Section: Energy  
Goal: N-7  
Policy: N-7.1

**Potential Board/Commission Review:**

Planning and Transportation  
Commission  
Utilities Advisory Commission

**Environmental Impact Analysis:**

This project is expected to have a possible exemption from CEQA under Section 15302.



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## ELECTRIC FUND



**Fund:** Electric Fund  
**Category:** System Improvements  
**Project Location:** SCADA System at Utility Control Center  
**Managing Department:** Utilities  
**Initial Project Start:** Recurring  
**Initial Project Completion:** Recurring  
**Revised Project Start:** N/A  
**Revised Project Completion:** N/A  
**Project Number:** EL-02010

SCADA Technologist configuring SCADA software

# SCADA System Upgrades

## Description

This project will upgrade the Supervisory Control and Data Acquisition (SCADA) system hardware. The SCADA system is used to monitor and control critical assets of the City's Electric, Gas, and Water utility systems from the Utility Control Center.

## Justification

An upgrade to peripheral equipment is necessary each year to keep the hardware and software current in order to handle the ever-increasing demands on the system and maintain manufacturer/industry support.

## Supplemental Information

Annual budget amounts are for minor system upgrades/replacements. Full system upgrades are on a 3 to 4 year cycle.

## Significant Changes

**2022-2026 CIP:** The annual expense budget has been aligned to cover increased costs of equipment and account for internal labor dedicated to these projects.

**2021-2025 CIP:** This is an annual budget to fund various upgrades to the SCADA system and peripheral equipment. Increases reflect the increased cost of equipment and support.

**2020-2024 CIP:** The increase in FY 2021 budget increase is to fund the purchase and installation of a demilitarized zone (DMZ) to add an additional layer of security to the City's local area network (LAN). An external network node can access only what is exposed in the DMZ, while the rest of the organization's network is firewalled. The DMZ functions as a small, isolated network positioned between the Internet and the LAN which



will allow the City extra time to detect and address breaches before they further penetrate into the internal networks.

### Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Electric Fund</b>	N/A	282,230	282,230	225,000	185,000	220,000	308,000	317,240	1,255,240	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$282,230</b>	<b>\$282,230</b>	<b>\$225,000</b>	<b>\$185,000</b>	<b>\$220,000</b>	<b>\$308,000</b>	<b>\$317,240</b>	<b>\$1,255,240</b>	<b>\$0</b>	<b>N/A</b>

### Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Construction</b>	N/A	282,229	282,229	225,000	185,000	220,000	308,000	317,240	1,255,240	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$282,229</b>	<b>\$282,229</b>	<b>\$225,000</b>	<b>\$185,000</b>	<b>\$220,000</b>	<b>\$308,000</b>	<b>\$317,240</b>	<b>\$1,255,240</b>	<b>\$0</b>	<b>N/A</b>

### Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

<p><b>Relationship to Comprehensive Plan</b>  <b>Primary Connection</b>                  Element: Community Services &amp; Facilities                  Section: Maintenance of Parks and Community Facilities                  Goal: C-3                  Policy: C-3.2                  Program: C3.2.1</p>	<p><b>Potential Board/Commission Review:</b>                  Planning and Transportation Commission                  Utilities Advisory Commission</p>
<p><b>Environmental Impact Analysis:</b>                  This project is expected to have a possible exemption from CEQA under Section 15301.</p>	

## ELECTRIC FUND



**Fund:** Electric Fund  
**Category:** System Improvements  
**Project Location:** Various locations  
**Managing Department:** Utilities  
**Initial Project Start:** Fall 2016  
**Initial Project Completion:** Fall 2022  
**Revised Project Start:** Fall 2023  
**Revised Project Completion:** Spring 2025  
**Project Number:** EL-11014

Sample of energy use information that could be available to customers

# Smart Grid Technology Installation

## Description

This project will implement portions of the Smart Grid Road Map that can be cost effectively applied to the City's Electric, Gas, and Water utility systems resulting in operating cost savings, environmental benefits, plus an increased quality of life and productivity for the residents and businesses of Palo Alto.

## Justification

The Smart Grid will help the City of Palo Alto achieve the following goals: energy conservation, carbon emission reduction, efficient utilization of aging infrastructure, improved system reliability, integration of distributed energy resources, accommodation of battery charging demands, cost-effective commodity purchases, and meeting customer demands for information.

## Supplemental Information

This project could include aspects of data management system, smart metering, fiber optic infrastructure improvement, distribution system automation, outage management system, load management system, demand-side management system, leak and revenue protection, customer interface to energy usage, and customer equipment control.

## Significant Changes

**2024-2028 CIP:** Alpha and Beta phases for meter testing and system integration have been completed. The new advanced meters and radios will be deployed in Fall 2023 and anticipated to be completed in 18 months.

**2022-2026 CIP:** Staff has evaluated the proposals and selected the vendors. The contracts are tentatively scheduled for City Council review and approval in October 2021. The project will be funded with the Electric Special Projects (ESP) reserves and once the project is complete, the Gas and Water Funds will reimburse the Electric Fund over a five year period at a 2.5 percent interest.

**2021-2025 CIP:** This project will implement portions of the Smart Grid Road Map that can be cost effectively applied to the City’s electric, gas, and water utility systems, resulting in operating cost savings, environmental benefits, plus an increased quality of life and productivity for the residents and businesses of Palo Alto. Staff completed a Request for Proposal to solicit bids to evaluate the implementation of Smart Grid technologies in Palo Alto incorporating information gathered from completed pilot projects.

**2020-2024 CIP:** In December 2018, the City Council accepted the ‘Smart Grid and Utilities Technology Implementation Plan’ that recommended the implementation of an Automated Metering Infrastructure (AMI) based smart grid system at an estimated cost of \$19 million.

The cost is estimated to be borne by the Electric (\$10.5 million), Gas (\$3.4 million) and Water (\$5.1 million) Funds. The actual project implementation is not expected to begin until 2023, upon the implementation of the customer information system upgrade project. It is also anticipated the funds from the Electric Special Projects (ESP) reserves will be used to cover the initial capital costs. The Gas and Water Funds will then repay the ESP reserve loan over 10 years at 3.5 percent interest with an annualized payment of \$0.4 million and \$0.6 million, respectively.

**2019-2023 CIP:** Project activities in 2019 include consultant development of system specifications in preparation for an RFP to solicit contracts with meter data management systems and advanced metering infrastructure vendors for delivery in 2021 and 2022, respectively. Implementation will begin in 2021 once the upgrade of Utilities’ Customer Information System is complete.

### Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Electric Fund</b>	3,951,258	12,396,095	11,685,918	2,451,162	0	0	0	0	2,451,162	0	18,088,338
<b>Transfer from Gas Fund</b>	616,334	0	0	0	0	0	0	0	0	0	616,334
<b>Transfer from Water Fund</b>	726,334	0	0	0	0	0	0	0	0	0	726,334
<b>Total</b>	<b>\$5,293,926</b>	<b>\$12,396,095</b>	<b>\$11,685,918</b>	<b>\$2,451,162</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$2,451,162</b>	<b>\$0</b>	<b>\$19,431,006</b>

### Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Construction</b>	5,141,595	12,396,094	11,685,917	2,451,162	0	0	0	0	2,451,162	0	19,278,674
<b>Design</b>	152,311	0	0	0	0	0	0	0	0	0	152,311
<b>Total</b>	<b>\$5,293,906</b>	<b>\$12,396,094</b>	<b>\$11,685,917</b>	<b>\$2,451,162</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$2,451,162</b>	<b>\$0</b>	<b>\$19,430,985</b>

### Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

# ELECTRIC FUND

**Relationship to Comprehensive Plan  
Primary Connection**

Element: Transportation  
Section: Sustainable Transportation  
Goal: T-1  
Policy: T-1.5

**Potential Board/Commission Review:**

Planning and Transportation  
Commission  
Utilities Advisory Commission

**Environmental Impact Analysis:**

This project is expected to have a possible exemption from CEQA under Section 15302.



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**Fund:** Electric Fund  
**Category:** System Improvements  
**Project Location:** Various locations  
**Managing Department:** Utilities  
**Initial Project Start:** Summer 2017  
**Initial Project Completion:** Summer 2020  
**Revised Project Start:** Summer 2020  
**Revised Project Completion:** Summer 2028  
**Project Number:** EL-17002

High voltage circuit breakers

# Substation Breaker Replacement

## Description

This project funds the purchase and replacement of high voltage circuit breakers that interconnect the nine electric substations and two power switching stations. There are 42 circuit breakers on the both the 60kV and 12kV lines reaching the end of their recommended reliable useful life expectancy and/or are now underrated for their use.

## Justification

The high voltage circuit breakers interconnect the nine electric substations and two power switching stations. These circuit breakers are integral and critical components of the electric utility transmission system. The breakers protect the feeders and the busbar configuration in a substation. These circuit breakers are reaching the end of their recommended reliable useful life expectancy and/or are now underrated for their use. Due to the current physical configuration, it is also difficult to perform maintenance work. The replacements will include reconfiguring the installation of the replacement breakers for easy operation and maintenance. These replacements ensure the electric substations have operable equipment is critical to maintaining a safe and reliable distribution system.

## Significant Changes

**2024-2028 CIP:** The total project cost of \$7.4 million is lower than previously estimated due to savings in FY 2022 that were reallocated to the Grid Modernization for Electrification Project (EL-24000).

**2023-2027 CIP:** Renamed from Substation 60kV Breaker Replacement to Substation Breaker Replacement. Funding increased by approximately \$1.7 million to a total of \$7.8 million to include replacement of breakers on the 12kV system.

**2022-2026 CIP:** The project expense increased to account for additional breakers and an increase in material cost. Nine additional oil breakers were added to the replacement list. One of the primary reasons for an increase in material cost is due to the industry migrating away from using greenhouse gases in breaker insulation, such as sulfur hexafluoride (SF6), to dry air technology designed breakers.

**2021-2025 CIP:** This is an ongoing project over several years to replace 60 kV breakers at substations. The increased cost is to cover anticipated increases in material and installation cost.

**2020-2024 CIP:** This project will be a 10-year program replacing five breakers per year. The annual budget of \$600,000 includes engineering consulting services, material, and construction.

**2017-2021 CIP:** Project established.

### Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Electric Fund</b>	1,484,546	2,477,480	1,340,000	2,487,480	1,000,000	1,000,000	0	0	4,487,480	0	7,312,026
<b>Total</b>	<b>\$1,484,546</b>	<b>\$2,477,480</b>	<b>\$1,340,000</b>	<b>\$2,487,480</b>	<b>\$1,000,000</b>	<b>\$1,000,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$4,487,480</b>	<b>\$0</b>	<b>\$7,312,026</b>

### Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Construction</b>	1,131,146	2,340,000	1,202,520	2,487,480	1,000,000	1,000,000	0	0	4,487,480	0	6,821,146
<b>Design</b>	353,383	137,480	137,480	0	0	0	0	0	0	0	490,863
<b>Total</b>	<b>\$1,484,529</b>	<b>\$2,477,480</b>	<b>\$1,340,000</b>	<b>\$2,487,480</b>	<b>\$1,000,000</b>	<b>\$1,000,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$4,487,480</b>	<b>\$0</b>	<b>\$7,312,009</b>

### Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

<p><b>Relationship to Comprehensive Plan</b>  <b>Primary Connection</b>                   Element: Natural Environment                  Section: Energy                  Goal: N-7                  Policy: N-7.1</p>	<p><b>Potential Board/Commission Review:</b>                   Planning and Transportation Commission                  Utilities Advisory Commission</p>
<p><b>Environmental Impact Analysis:</b>                  This project is expected to have a possible exemption from CEQA under Section 15302.</p>	

# ELECTRIC FUND



**Fund:** Electric Fund  
**Category:** System Improvements  
**Project Location:** Various locations  
**Managing Department:** Utilities  
**Initial Project Start:** Recurring  
**Initial Project Completion:** Recurring  
**Revised Project Start:** N/A  
**Revised Project Completion:** N/A  
**Project Number:** EL-89044

Electric Substation transformer and bus structure

## Substation Facility Improvements

### Description

This project involves several improvements to each of the nine substation facilities in Palo Alto, including improvement to the safety grounding grids, upgrading gravel for electrical isolation, replacement of various substation equipment, renovation of security fences and entry gates, paving of driveways and parking areas in substations, upgrading of substation drainage systems, replacement of Remote Terminal Unit (RTU) equipment, bus voltage monitoring and local area network (LAN) connections, as well as other improvements.

### Justification

The electric substations are the link between the transmission and distribution systems. At the substations, voltage levels are converted and distribution circuits branch out to provide power throughout the City. They are a key element to providing reliable electric service to residents and customers in Palo Alto. Work completed under this project helps to ensure reliable operation and electric service.

### Significant Changes

**2022-2027 CIP:** Budget increased by approximately \$1.0 million over the five-year CIP compared to the prior CIP to align with current cost of materials, and fund the replacement of air switches and equipment oil leaks.

**2021-2025 CIP:** Budget increase in FY 2021 for grounding upgrades.

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Electric Fund	N/A	1,303,606	1,303,606	400,000	400,000	412,000	430,000	442,900	2,084,900	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$1,303,606</b>	<b>\$1,303,606</b>	<b>\$400,000</b>	<b>\$400,000</b>	<b>\$412,000</b>	<b>\$430,000</b>	<b>\$442,900</b>	<b>\$2,084,900</b>	<b>\$0</b>	<b>N/A</b>



## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Construction</b>	N/A	1,211,964	1,211,964	400,000	400,000	412,000	430,000	442,900	2,084,900	0	N/A
<b>Design</b>	N/A	91,641	91,641	0	0	0	0	0	0	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$1,303,605</b>	<b>\$1,303,605</b>	<b>\$400,000</b>	<b>\$400,000</b>	<b>\$412,000</b>	<b>\$430,000</b>	<b>\$442,900</b>	<b>\$2,084,900</b>	<b>\$0</b>	<b>N/A</b>

### Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

<p><b>Relationship to Comprehensive Plan</b>  <b>Primary Connection</b></p> <p>Element: Natural Environment                  Section: Energy                  Goal: N-7                  Policy: N-7.1</p> <p><b>Environmental Impact Analysis:</b>                  This project is expected to have a possible exemption from CEQA under Section 15302.</p>	<p><b>Potential Board/Commission Review:</b></p> <p>Planning and Transportation Commission                  Utilities Advisory Commission</p>
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**Fund:** Electric Fund  
**Category:** System Improvements  
**Project Location:** Colorado Substation  
**Managing Department:** Utilities  
**Initial Project Start:** Fall 2015  
**Initial Project Completion:** Spring 2017  
**Revised Project Start:** Spring 2023  
**Revised Project Completion:** Winter 2028  
**Project Number:** EL-16003

Substation perimeter wall providing security for the enclosed equipment

# Substation Physical Security

## Description

The electric substations are a key element of the Electric Distribution System used to provide electricity to residents and customers of Palo Alto. This project will evaluate options for protecting electric substations from outside vandalism and intrusion. If necessary, fences and other protections will be repaired. Security lighting will be designed and issued for construction.

## Justification

In 2014, legislation was passed (SB-699) to address security concerns regarding utility sites and systems following a 2013 incident involving PG&E's Metcalf Substation in South San Jose. The incident prompted utility providers to consider similar disruptions and implement security measures to mitigate them. If one of Palo Alto's substations were to be similarly damaged, the impact would cause outages of an extended period. The Utility Site Security Improvements project (EL-04012) addresses aspects of visual security such as digital cameras, and was combined with this project to include the need for physical protection.

## Significant Changes

**2024-2028 CIP:** Security lighting upgrades and fence construction at the substations began in FY 2023 with project completion estimated to be Winter 2028.

**2023-2027 CIP:** Project budget increased by approximately \$3.6 million to a total of \$6.8 million to align construction costs based on the latest bids received. Project completion also moved out from Winter 2025 to Winter 2027.

**2022-2026 CIP:** Security lighting and cameras added to the project scope, but the total project budget remained the same.

**2021-2025 CIP:** This is an ongoing project over several years to improve security of electric substations. Project work will be coordinated with work proposed in EL-19002, Colorado Substation Site Improvements. Delayed and reappropriated

**2020-2024 CIP:** Project title changed from Substation Security to Substation Physical Security. The project budget has increased by \$1.0 million to account for increased project scope at Colorado and Hansen Substations and construction cost escalation.

**2019-2023 CIP:** Project budget increased by \$0.3 million to account for construction escalation.

**2017-2021 CIP:** Shifting project priorities have caused the delay for the completion of this project. A consultant assessed and recommended security measures in 2017. Staff will review recommendations and issue bids for selected improvements.

### Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Electric Fund</b>	2,078,884	4,021,348	1,208,773	3,282,365	165,000	300,000	189,150	169,950	4,106,465	0	7,394,122
<b>Total</b>	<b>\$2,078,884</b>	<b>\$4,021,348</b>	<b>\$1,208,773</b>	<b>\$3,282,365</b>	<b>\$165,000</b>	<b>\$300,000</b>	<b>\$189,150</b>	<b>\$169,950</b>	<b>\$4,106,465</b>	<b>\$0</b>	<b>\$7,394,122</b>

### Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Construction</b>	568,159	3,957,902	1,145,327	3,282,365	111,530	213,230	189,150	25,680	3,821,955	0	5,535,441
<b>Design</b>	1,510,675	63,446	63,446	0	53,470	86,770	0	144,270	284,510	0	1,858,631
<b>Total</b>	<b>\$2,078,834</b>	<b>\$4,021,348</b>	<b>\$1,208,773</b>	<b>\$3,282,365</b>	<b>\$165,000</b>	<b>\$300,000</b>	<b>\$189,150</b>	<b>\$169,950</b>	<b>\$4,106,465</b>	<b>\$0</b>	<b>\$7,394,072</b>

### Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

<p><b>Relationship to Comprehensive Plan</b>  <b>Primary Connection</b></p> <p>Element: Natural Environment                  Section: Energy                  Goal: N-7                  Policy: N-7.1</p> <p><b>Environmental Impact Analysis:</b>                  This project is expected to have a possible exemption from CEQA under Section 15301.</p>	<p><b>Potential Board/Commission Review:</b></p> <p>Planning and Transportation                  Commission                  Utilities Advisory Commission</p>
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## ELECTRIC FUND



**Fund:** Electric Fund  
**Category:** System Improvements  
**Project Location:** Electric Substations  
**Managing Department:** Utilities  
**Initial Project Start:** Recurring  
**Initial Project Completion:** Recurring  
**Revised Project Start:** N/A  
**Revised Project Completion:** N/A  
**Project Number:** EL-89038

Electric Substation used to distribute power to City of Palo Alto residents and customers

# Substation Protection Improvements

## Description

This project funds the purchase, engineering, and installation of protective overcurrent relays, circuit breakers, high voltage fuses, and other equipment used at electric substations to protect the equipment and circuits emanating from the substation from damage due to faults (i.e. short circuits) on the electric system.

## Justification

The electric substations are the link between the transmission and distribution systems. At the substations, voltage levels are converted and distribution circuits branch out to provide power throughout the City. They are a key element to providing reliable electric service to residents and customers in Palo Alto. Protective equipment is used to stop power flow when there are problems on the electric system. As the Electric Distribution System becomes more complex and reliability more critical, maintenance of these systems is imperative.

This project includes replacement of old protective devices and controls that have misoperated or no longer provide the level of functionality now required for more sophisticated and sensitive devices. Properly designed and operating protective systems are required to ensure public safety, reduce equipment damage, and minimize the impact of faults such as reduction in outage durations.

## Significant Changes

**2022-2026 CIP:** Staff replaced a group of current transformers, and has completed design and installation of the relays and control systems at Maybell Substation. Staff replaced the Quarry Substation and Hanover Substation feeder relays. Staff is upgrading the transformer protection relays at Colorado Power Station. Staff is also evaluating the 60kV protection system due to recent changes in EL-19001.

**2020-2024 CIP:** Staff completed the 60kV coordination study and is working on designs for replacement of current transformers that would be overloaded during faults. Staff is also working on the designs to replace the

relays on the Maybell Substation feeders. Due to the size and complexity of this project, staff is in the process of procuring an Engineering Consultant to do the detailed design of the equipment layout and wiring.

### Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Electric Fund</b>	N/A	633,747	633,747	300,000	300,000	309,000	320,000	329,600	1,558,600	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$633,747</b>	<b>\$633,747</b>	<b>\$300,000</b>	<b>\$300,000</b>	<b>\$309,000</b>	<b>\$320,000</b>	<b>\$329,600</b>	<b>\$1,558,600</b>	<b>\$0</b>	<b>N/A</b>

### Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Construction</b>	N/A	300,000	300,000	300,000	300,000	309,000	320,000	329,600	1,558,600	0	N/A
<b>Design</b>	N/A	333,747	333,747	0	0	0	0	0	0	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$633,747</b>	<b>\$633,747</b>	<b>\$300,000</b>	<b>\$300,000</b>	<b>\$309,000</b>	<b>\$320,000</b>	<b>\$329,600</b>	<b>\$1,558,600</b>	<b>\$0</b>	<b>N/A</b>

### Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

<p><b>Relationship to Comprehensive Plan</b>  <b>Primary Connection</b></p> <p>Element: Natural Environment                  Section: Energy                  Goal: N-7                  Policy: N-7.1</p> <p><b>Environmental Impact Analysis:</b>                  This project is expected to have a possible exemption from CEQA under Section 15301.</p>	<p><b>Potential Board/Commission Review:</b></p> <p>Planning and Transportation                  Commission                  Utilities Advisory Commission</p>
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## ELECTRIC FUND



**Fund:** Electric Fund  
**Category:** System Improvements  
**Project Location:** Various locations  
**Managing Department:** Utilities  
**Initial Project Start:** Recurring  
**Initial Project Completion:** Recurring  
**Revised Project Start:** N/A  
**Revised Project Completion:** N/A  
**Project Number:** EL-16001

Electric crews preparing to enter underground vault

# Underground System Rebuild

## Description

Underground primary electric cables and equipment have a limited life span and need to be replaced before they fail and cause outages. This project will replace underground electric equipment in areas that were originally installed underground instead of as a part of an Underground District. Work will include the replacement of deteriorated electrical cables, transformers, switches and enclosures. Installation of new equipment will bring the electrical system up to current construction standards.

## Justification

The underground system cables and equipment installed prior to 1990 have an expected life of 30 years and now need to be replaced. In addition, most of the equipment and cables were installed in subsurface enclosures that have standing water in them in the winter. Exposure to water reduces the life of the equipment and electrical connections and require the rebuilding of the facilities. Utilities has specific projects to address rebuilding Underground Districts. This project will address replacing underground equipment that was installed originally as underground and not part of an Underground District.

## Significant Changes

**2021-2025 CIP:** This is an annual budget to fund various projects to replace underground cable as the need is identified. Increases reflect the increased cost of materials and installation.

**2020-2024 CIP:** Staff is working to identify areas that are high priority for cable replacement based on the age of the existing cables. This currently includes areas in the Stanford Research Park, Arastradero Road, and along East Bayshore Road.

**2019-2023 CIP:** Shifting project priorities and staffing shortages have delayed identification and development of projects to replace underground facilities that fall under this project.

2016-2021 CIP: Project established.

### Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Electric Fund	N/A	350,000	350,000	350,000	350,000	350,000	364,000	374,920	1,788,920	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$350,000</b>	<b>\$350,000</b>	<b>\$350,000</b>	<b>\$350,000</b>	<b>\$350,000</b>	<b>\$364,000</b>	<b>\$374,920</b>	<b>\$1,788,920</b>	<b>\$0</b>	<b>N/A</b>

### Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Construction	N/A	350,000	350,000	350,000	350,000	350,000	364,000	374,920	1,788,920	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$350,000</b>	<b>\$350,000</b>	<b>\$350,000</b>	<b>\$350,000</b>	<b>\$350,000</b>	<b>\$364,000</b>	<b>\$374,920</b>	<b>\$1,788,920</b>	<b>\$0</b>	<b>N/A</b>

### Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

<p><b>Relationship to Comprehensive Plan</b>  <b>Primary Connection</b></p> <p>Element: Natural Environment                  Section: Energy                  Goal: N-7                  Policy: N-7.1</p> <p><b>Environmental Impact Analysis:</b>                  This project is expected to have a possible exemption from CEQA under Section 15301.</p>	<p><b>Potential Board/Commission Review:</b></p> <p>Planning and Transportation Commission                  Utilities Advisory Commission</p>
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**Fund:** Electric Fund  
**Category:** System Improvements  
**Project Location:** Various locations  
**Managing Department:** Utilities  
**Initial Project Start:** Recurring  
**Initial Project Completion:** Recurring  
**Revised Project Start:** N/A  
**Revised Project Completion:** N/A  
**Project Number:** EL-19004

Aging pole that needs to be replaced.

# Wood Pole Replacement

## Description

This project will fund the annual replacement of deteriorated wood poles.

## Justification

Wood poles are used to support overhead utility lines throughout the City of Palo Alto. Though poles are inspected, tested, and treated to maintain their integrity, over time poles will deteriorate to the point that they are no longer safe for utility workers. Replacement of wood poles has been funded under the Electric System Improvement project (EL-98003); however, wood pole replacement competes with other system improvement and service reliability work for funding. A new specific project for pole replacement is being established to give pole replacement a higher priority, as poles are getting older, and to ensure proper funding is approved and allocated each year.

## Significant Changes

**2025-2029 CIP:** Project budget reduced from \$1.5 million to \$0.8 million annually as many poles in residential areas will be replaced through the Grid Modernization project (EL-24000).

**2024-2028 CIP:** Funding increase of \$0.2 million in FY 2028 reflects estimated increased costs for future replacements.

**2022-2026 CIP:** Due to the timing and execution of the contract, the poles assigned in FY 2020 were completed at the start of FY 2021. The bid proposal and contract to replace the next set of poles will extend into FY 2022. The division does not have sufficient resources to manage a second wood pole project in the year. Funding from FY 2021 is being reappropriated to FY 2022 for the next set of wood pole replacements that year.



**2021-2025 CIP:** The increased costs are due to increases in cost of materials and construction labor. In June 2020, Council approved the contract for construction of this project, in conjunction with EL-17007 - Facility Relocation for Caltrain Modernization Project and construction is expected to start in July 2020.

**2020-2024 CIP:** Project revenues updated to reflect estimated shared costs from AT&T for joint pole access.

**2019-2023 CIP:** Project established.

### Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Electric Fund</b>	N/A	1,833,301	1,833,301	600,000	600,000	600,000	600,000	600,000	3,000,000	0	N/A
<b>Other</b>	N/A	150,000	150,000	150,000	150,000	150,000	150,000	150,000	750,000	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$1,983,301</b>	<b>\$1,983,301</b>	<b>\$750,000</b>	<b>\$750,000</b>	<b>\$750,000</b>	<b>\$750,000</b>	<b>\$750,000</b>	<b>\$3,750,000</b>	<b>\$0</b>	<b>N/A</b>

### Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Construction</b>	N/A	1,983,301	1,983,301	750,000	750,000	750,000	750,000	750,000	3,750,000	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$1,983,301</b>	<b>\$1,983,301</b>	<b>\$750,000</b>	<b>\$750,000</b>	<b>\$750,000</b>	<b>\$750,000</b>	<b>\$750,000</b>	<b>\$3,750,000</b>	<b>\$0</b>	<b>N/A</b>

### Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

<p><b>Relationship to Comprehensive Plan</b>  <b>Primary Connection</b></p> <p>Element: Natural Environment                  Section: Energy                  Goal: N-7                  Policy: N-7.1</p> <p><b>Environmental Impact Analysis:</b>                  This project is expected to have a possible exemption from CEQA under Section 15301.</p>	<p><b>Potential Board/Commission Review:</b></p> <p>Planning and Transportation                  Commission                  Utilities Advisory Commission</p>
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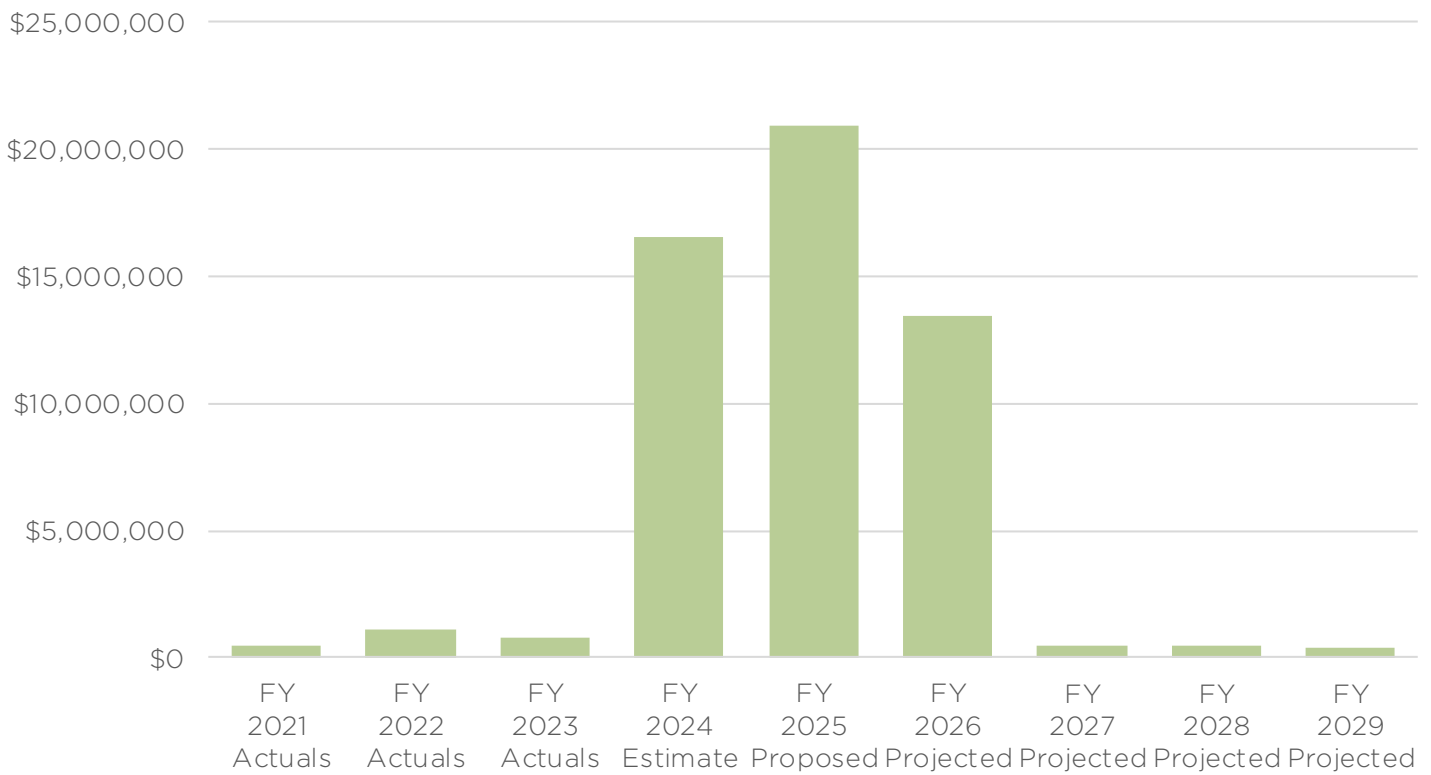
# FIBER OPTICS FUND

# FIBER OPTICS FUND

## Overview

The City of Palo Alto offers a full array of utility services to its citizens and businesses. The most recent addition to this list of services provided to City of Palo Alto residents and commercial customers is the licensing of dark fiber service connections on a dark optical fiber backbone network (fiber network), originally designed and built by the City in the mid to late 1990s. Major efforts to rebuild the dark fiber backbone and coordinate this work with the roll out of Fiber to the Premise (FTTP) and electric grid modernization in the Electric fund began in FY 2024.

## Fiber Optics Fund Expenditures



For the 2025-2029 Capital Improvement Program (CIP), expenditures of \$35.8 million are programmed, with \$21.0 million allocated in Fiscal Year 2025. Major projects funded in the 2025-2029 CIP include Fiber-to-the-Premise (\$8.0 million) and Fiber Network System Rebuild (\$25.5 million). The budget for the Fiber Optics CIP can be categorized into two types of projects: Capacity Improvements and Customer Connections.

## Infrastructure Inventory

CLASSIFICATION	QUANTITY
Route Miles of Backbone Fiber Cable	56.3
Route Miles of Overhead Backbone Fiber Optic Cable	21.6
Route Miles of Underground Backbone Fiber Optic Cable	34.6

## Capacity Improvements

Advances in technology have increased the need for high-bandwidth broadband connectivity. The capacity of the City's fiber optic network must be expanded to accommodate increases in online services and applications, and the significant growth of data transmission. To ensure secure, reliable, and resilient fiber optic service for internal City operations, Palo Alto residents and commercial customers, network components such as fiber optic cables and splice cabinets need to be upgraded, added, or rebuilt to increase capacity; mitigate damage by animals; and safeguard against hazardous conditions.

Starting in Q3 of FY 2024, a pilot will be deployed to help inform the City how closely electrification grid modernization projects may be coordinated with fiber projects. Aligning these projects may help reduce construction costs, minimize community disruption, and streamline project implementation.

### Recent Accomplishments

- Began deployment of pilot to coordinate the Grid Modernization Project and Fiber-to-the-Premises (FTTP) Project, which will upgrade the electric grid and provide homes and business with broadband internet in a pilot area.
- Completed a 60% design of electric make-ready engineering in alignment with fiber-to-the premise make-ready deployment in the pilot area.

## 2025-2029 Capital Improvement Program

### Recurring Projects

There is one recurring project in the Capacity Improvements category in the 2025-2029 CIP:

- Fiber Optics Network System Improvements (Fiscal Year 2025: \$0.2 million; 5-Year CIP: \$1.0 million)

### Non-Recurring Projects

There are two non-recurring project in the Capacity Improvements category in the 2025-2029 CIP:

- Fiber Optics Network System Rebuild (Fiscal Year 2025: \$12.5 million; 5-Year CIP: \$25.5 million)
- Fiber-to-the-Premises (Fiscal Year 2025: \$8.0 million)

## Customer Connections

The fiber network is dynamic, reflecting changes in customer fiber optic needs from equipment additions, new construction, building expansions, building remodels, teardowns, rebuilds, and new building occupancy types. Projects in this category include work required to meet the needs of customers who have applied for new, replaced, or upgraded dark fiber optic service connections. Labor and material costs incurred are offset by non-recurring charges (NRC) collected from customers to establish the connection, and ongoing dark fiber license fees or monthly recurring charges (MRC).

## 2025-2029 Capital Improvement Program

### Recurring Projects

There is one recurring project in the Fiber Optics Customer Connections category with amounts in the 2025 - 2029 CIP:

- Customer Connections (Fiscal Year 2025: \$0.2 million; 5-Year CIP: \$1.2 million)

# FIBER OPTICS FUND

## Non-Recurring Projects

There are no non-recurring projects in this category.

## Fiber Optics Fund

Project Number	Project Title	FY 2024 Budget	FY 2024 Estimate	FY 2025 Proposed	FY 2026	FY 2027	FY 2028	FY 2029	5-Year Total
<b>SOURCE OF FUNDS</b>									
<b>Other</b>									
<b>FO-10000</b>	Fiber Optics Customer Connections	200,000	200,000	200,000	200,000	200,000	200,000	200,000	1,000,000
<b>Other Total</b>		<b>\$200,000</b>	<b>\$200,000</b>	<b>\$200,000</b>	<b>\$200,000</b>	<b>\$200,000</b>	<b>\$200,000</b>	<b>\$200,000</b>	<b>\$1,000,000</b>
<b>Transfer from Electric Fund</b>									
<b>FO-16000</b>	Fiber Optics Network - System Rebuild	0	0	0	13,000,000	0	0	0	13,000,000
<b>Transfer from Electric Fund Total</b>		<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$13,000,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$13,000,000</b>
<b>Total Sources</b>		<b>\$200,000</b>	<b>\$200,000</b>	<b>\$200,000</b>	<b>\$13,200,000</b>	<b>\$200,000</b>	<b>\$200,000</b>	<b>\$200,000</b>	<b>\$14,000,000</b>
<b>USE OF FUNDS</b>									
<b>Capacity Improvements</b>									
<b>FO-10001</b>	Fiber Optics Network - System Improvements	617,605	617,605	202,500	203,300	203,900	210,000	210,000	1,029,700
<b>FO-16000</b>	Fiber Optics Network - System Rebuild	16,104,526	3,604,526	12,500,000	13,000,000	0	0	0	25,500,000
<b>FO-24000</b>	Fiber-to-the-Premises (FTTP)	12,000,000	12,000,000	8,000,000	0	0	0	0	8,000,000
<b>Capacity Improvements Total</b>		<b>\$28,722,131</b>	<b>\$16,222,131</b>	<b>\$20,702,500</b>	<b>\$13,203,300</b>	<b>\$203,900</b>	<b>\$210,000</b>	<b>\$210,000</b>	<b>\$34,529,700</b>
<b>Customer Connections</b>									
<b>FO-10000</b>	Fiber Optics Customer Connections	351,600	351,600	253,100	254,100	254,900	263,000	200,000	1,225,100
<b>Customer Connections Total</b>		<b>\$351,600</b>	<b>\$351,600</b>	<b>\$253,100</b>	<b>\$254,100</b>	<b>\$254,900</b>	<b>\$263,000</b>	<b>\$200,000</b>	<b>\$1,225,100</b>
<b>Total Uses</b>		<b>\$29,073,731</b>	<b>\$16,573,731</b>	<b>\$20,955,600</b>	<b>\$13,457,400</b>	<b>\$458,800</b>	<b>\$473,000</b>	<b>\$410,000</b>	<b>\$35,754,800</b>

# Capacity Improvements

## FIBER OPTICS FUND



**Fund:** Fiber Optics Fund  
**Category:** Capacity Improvements  
**Project Location:** Various locations  
**Managing Department:** Utilities  
**Initial Project Start:** Recurring  
**Initial Project Completion:** Recurring  
**Revised Project Start:** N/A  
**Revised Project Completion:** N/A  
**Project Number:** FO-10001

Fiber optic crew installing new fiber optic cables

# Fiber Optics Network - System Improvements

## Description

This project provides funding to improve reliability within the existing fiber network. Typical activities in this project include purchasing, upgrading, and installing fiber optic cables, conduits, and splice enclosures.

## Justification

This project promotes the formation of a competitive market for telecommunications in Palo Alto by accelerating the pace at which high-quality, low-cost, advanced telecommunications services are delivered to the residents and businesses in Palo Alto. This occurs while limiting the negative impacts on Palo Alto's environment by using existing conduit and wood utility poles in the public rights-of-way. This also enables the Fiber Optics Fund to generate additional revenues through the enhanced use of its existing conduit and wood utility poles.

## Supplemental Information

The Fiber Optics Utility continues to add capacity improvements in the form of additional fiber in congested areas as well as areas of predicted growth.

## Significant Changes

**2023-2027 CIP:** As part of Electric Fund's Foothills Rebuild (Fire Mitigation) project (EL-21001), the Electric Fund will underground the overhead lines in the Foothills. Since the substructure will include conduits for fiber optics, the Fiber Fund will cover one-third, or approximately \$2.0 million, of substructure costs. The project's expense in FY 2024 and FY 2025 will be updated in the next budget cycle to reflect this funding.

**2022-2026 CIP:** Staff will postpone and combine the Montebello project with the Wildfire Mitigation Project to save costs on the substructure work.



# FIBER OPTICS FUND

**2021-2025 CIP:** Changed project title from Fiber Optic System Improvements to Fiber Optic Network - System Improvements.

**2020-2024 CIP:** The Fiber Optics Fund will build emergency water supply resiliency at Montebello reservoir to enable the Utilities Supervisory Control and Data Acquisition (SCADA) system to add full remote-control valves at the reservoir. Montebello is the only reservoir (of seven) remaining without available fiber service connections. Staff must manually turn on/off the valves which may be difficult after a major earthquake or unsafe during a wildfire or similar emergencies. In addition, intermittent loss of cellular and radio coverage in the foothills area where the reservoir is located may occur. This is a major impediment for emergency response calls. Finally, if fiber is available at Montebello Reservoir, Utilities can use this fiber for backhaul communication links for Advanced Metering Infrastructure (AMI) collectors to serve customers.

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Fiber Optics Fund</b>	N/A	617,606	617,606	202,500	203,300	203,900	210,000	210,000	1,029,700	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$617,606</b>	<b>\$617,606</b>	<b>\$202,500</b>	<b>\$203,300</b>	<b>\$203,900</b>	<b>\$210,000</b>	<b>\$210,000</b>	<b>\$1,029,700</b>	<b>\$0</b>	<b>N/A</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Construction</b>	N/A	575,582	575,582	202,500	203,300	203,900	210,000	210,000	1,029,700	0	N/A
<b>Design</b>	N/A	42,023	42,023	0	0	0	0	0	0	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$617,605</b>	<b>\$617,605</b>	<b>\$202,500</b>	<b>\$203,300</b>	<b>\$203,900</b>	<b>\$210,000</b>	<b>\$210,000</b>	<b>\$1,029,700</b>	<b>\$0</b>	<b>N/A</b>

## Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

<p><b>Relationship to Comprehensive Plan</b>  <b>Primary Connection</b></p> <p>Element: Business &amp; Economics          Section: Culture of Innovation and Business Diversity          Goal: B-4          Policy: B-4.1</p> <p><b>Environmental Impact Analysis:</b>          This project is expected to have a possible exemption from CEQA under Section 15302.</p>	<p><b>Potential Board/Commission Review:</b></p> <p>Planning and Transportation Commission          Utilities Advisory Commission          Architectural Review Board</p>
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## FIBER OPTICS FUND



**Fund:** Fiber Optics Fund  
**Category:** Capacity Improvements  
**Project Location:** Various locations  
**Managing Department:** Utilities  
**Initial Project Start:** Spring 2016  
**Initial Project Completion:** Spring 2018  
**Revised Project Start:** Fall 2023  
**Revised Project Completion:** Summer 2026  
**Project Number:** FO-16000

Fiber optic splice closer ready for inspection and work

# Fiber Optics Network - System Rebuild

## Description

This project rebuilds portions of the fiber network to improve capacity, which will facilitate licensing of dark fiber to companies that provide telecommunication services to residents and businesses in Palo Alto. The project will install new aerial duct or substructures (conduit and boxes) and additional fiber backbone cables to increase capacity for sections of the network that are at or near capacity to meet customer requests for service connections. The main rebuild project areas are the Stanford Research Park, the Palo Alto Internet Exchange (PAIX) at 529 Bryant Street, and the downtown business district.

## Justification

The fiber network was planned, designed, and constructed in the mid to late 1990s by City of Palo Alto Utilities Department. The Utilities Department began to license dark fiber service connections for commercial purposes in the late 1990s. Since then, several sections of the fiber network have reached capacity and limited the City's ability to efficiently serve its customers. This project will increase network capacity and improve reliability, allowing the City to maintain a competitive market for telecommunications by accelerating the pace at which high-quality and low-cost advanced telecommunications services are delivered to residents and businesses.

## Supplemental Information

Coordination of Fiber-to-the-Premise (FTTP) with electric and natural gas utility planning enables an integrated approach to strategies such as building electrification and electric vehicle support infrastructure at the scale of neighborhood blocks and potentially entire neighborhoods. Contingent on completing a competitive Request for Proposals process and seeking Council approval, a telecommunications consulting firm will be retained under a Professional Services Agreement to develop a fiber network expansion plan in four (4) phases. The scope of work entails the following:

- Phase 1 seeks a high-level design and cost estimate for fiber expansion to support Advanced Metering Infrastructure (AMI), Supervisory Control and Data Acquisition (SCADA), and wireless communication for City field staff and other City services;
- Phase 2 seeks a detailed engineering design and cost estimate for fiber expansion to support AMI, SCADA, and wireless communication for City field staff and other City services;
- Phase 3 seeks a business case and high-level design for a citywide FTTP network. The FTTP network and high-level design in the business case should expand on the fiber network for AMI, SCADA and wireless communication; and
- Phase 4 seeks a detailed engineering design, cost estimate, and a phased deployment approach for FTTP.

Upon the completion of each phase, staff will return to the Council with findings and recommendations and request authorization to proceed to the next phase.

Note: The fiber optic connections for AMI implementation and connections for the existing SCADA system is funded by the Electric Fund.

## Significant Changes

**2024-2028 CIP:** Estimated costs building fiber backbone added to FY 2024 with the electric fund portion added to FY 2025 in alignment with total estimates provided to Council in December 2022. The Fiber to the Home (FTTH) portion, which is now referred to as "Fiber-to-the-Premises" (FTTP) will be managed under a separate new project, FO-24000. Funding in FY 2024 may be spread and reallocated based on planned work, which will be aligned at a later time when requests for proposals have been received.

**2023-2027 CIP:** Detailed engineering design of the new Fiber Backbone Expansion and FTTH currently in progress and is anticipated to be completed by Spring 2023. \$1.0 million estimated costs for initial design work have been programmed into this project, pending further changes resulting from final approval of final scope and business plan.

**2022-2026 CIP:** Council approved staff's recommendation to combine phase 2 and 4 together for efficiency gains and cost savings. By combining phases 2 and 4, the detailed engineering can be completed for the two phases concurrently rather than independently of one another. This will lead to a shortened design timeframe and reduced costs for the City.

**2021-2025 CIP:** Changed project title from Fiber Optic System Rebuild to Fiber Optic Network - System Rebuild. In November 2018, the Council accepted the Smart Grid and Technology Implementation Plan and directed staff to align fiber network expansion with the Advanced Metering Infrastructure (AMI) implementation plan. The project was delayed and funding was reappropriated.

In June 2019, Council directed staff to design and plan a fiber network system based on fundamental principles that leverage and expand the network to support a communications platform for AMI; Supervisory Control and Data Acquisition (SCADA) systems; Emerging Smart City initiatives (e.g. traffic management, smart street-lights, parking garage sensors, data collection); and deployment of City operations dependent on fiber for the delivery of essential City services.

The objective is to pursue a comprehensive fiber expansion strategy from an integrated cross-utility perspective. This strategy is focused on evaluating the feasibility of integrating fiber network expansion into other

# FIBER OPTICS FUND

ongoing utility capital improvement projects and programs, if practical, to fully leverage the City’s fiber asset. The City is adding new telecommunication infrastructure which may reduce the incremental cost to extend fiber and wireless communications infrastructure to residential and commercial areas. This integrated strategy for fiber expansion planning includes the above-noted fiber network rebuild project and may also become a foundation for (FTTP).

**2019-2023 CIP:** Due to limited staffing, this project has shifted to start in FY 2019. Additionally, \$0.3 million has been added to the following two years to address additional site locations.

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Fiber Optics Fund</b>	2,000,096	16,104,527	3,604,527	12,500,000	0	0	0	0	12,500,000	0	18,104,623
<b>Transfer from Electric Fund</b>	0	0	0	0	13,000,000	0	0	0	13,000,000	0	13,000,000
<b>Total</b>	<b>\$2,000,096</b>	<b>\$16,104,527</b>	<b>\$3,604,527</b>	<b>\$12,500,000</b>	<b>\$13,000,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$25,500,000</b>	<b>\$0</b>	<b>\$31,104,623</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Construction</b>	1,965,986	16,104,526	3,604,526	12,500,000	13,000,000	0	0	0	25,500,000	0	31,070,512
<b>Design</b>	33,429	0	0	0	0	0	0	0	0	0	33,429
<b>Fiber Optics Fund</b>	669	0	0	0	0	0	0	0	0	0	669
<b>Total</b>	<b>\$2,000,084</b>	<b>\$16,104,526</b>	<b>\$3,604,526</b>	<b>\$12,500,000</b>	<b>\$13,000,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$25,500,000</b>	<b>\$0</b>	<b>\$31,104,610</b>

## Operating Impact

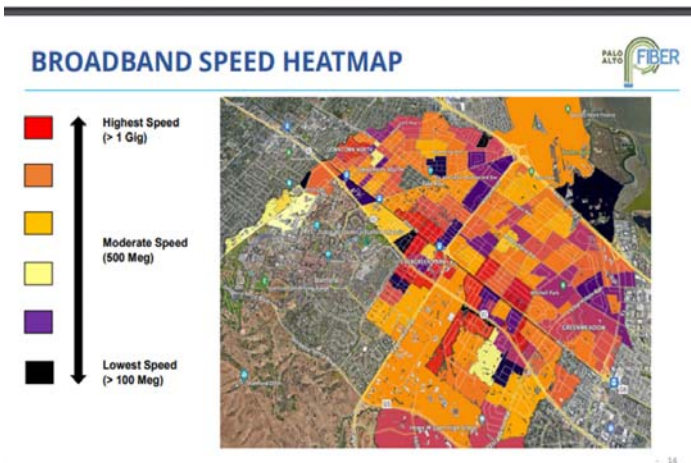
There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

<p><b>Relationship to Comprehensive Plan</b>  <b>Primary Connection</b></p> <p>Element: Business &amp; Economics          Section: Culture of Innovation and Business Diversity          Goal: B-4          Policy: B-4.1</p> <p><b>Environmental Impact Analysis:</b>          This project is expected to have a possible exemption from CEQA under Section 15302.</p>	<p><b>Potential Board/Commission Review:</b></p> <p>Planning and Transportation Commission          Utilities Advisory Commission          Architectural Review Board</p>
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# FIBER OPTICS FUND



**Fund:** Fiber Optics Fund  
**Category:** Capacity Improvements  
**Project Location:** Various locations  
**Managing Department:** Utilities  
**Initial Project Start:** Winter 2023  
**Initial Project Completion:** Winter 2030  
**Revised Project Start:** N/A  
**Revised Project Completion:** N/A  
**Project Number:** FO-24000

Broadband Speed Distribution in Palo Alto 2023

## Fiber-to-the-Premises (FTTP)

### Description

This project will build Fiber-to-the-Premises (FTTP) to deliver broadband (high-speed internet) for homes and businesses in the City of Palo Alto. As the City builds the FO-16000 - Fiber Optics Network - System Rebuild project to expand its dark (unlit, or not put in use by a service provider) fiber optic backbone network, the network may be built out further and lit to connect to homes and businesses with FTTP offering retail services such as broadband. This is commonly known as building out the “last mile” in a network, which this FTTP project provides.

### Justification

On December 19, 2022 (CMR 14800), Council approved to build the fiber backbone and move forward with FTTP in a phased approach. There have been multiple discussions over the decade regarding the tradeoffs for offering municipal-owned FTTP to the community as a service, investments needed to build the “last mile,” benefits and risks of becoming a new internet service provider (ISP), and various financial models and organizational structure. The City reviewed information demonstrating how building the last mile in the City’s fiber network infrastructure supports the City’s initiatives, provides the community with more choice among broadband providers, and becomes a valuable telecommunication investment for the future.

### Supplemental Information

Staff to return to Council second quarter of calendar year 2023 to plan next steps for deploying a phased approach. In December 2022, an example of the phased approach was provided. Assuming a \$20 million capital investment with the first phase of FTTP and access to 20% - 30% of homes and businesses within 2-3 years, three potential phase 1 deployment models for FTTP would have the following initial build out scenarios:

1. Areas with the lowest construction cost and highest density

- 2. Areas with the highest demand based on deposits
- 3. Areas without AT&T Fiber, with the goal of increasing take rates

**Significant Changes**

**2024-2028 CIP:** Project established with Phase I rough cost estimates as of December 19, 2022 (CMR 14800) reflected in FY 2024. Funding in FY 2024 may be spread and reallocated based on planned work, which will be aligned at a later time when requests for proposals have been received.

Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Fiber Optics Fund</b>	0	12,000,000	12,000,000	8,000,000	0	0	0	0	8,000,000	0	20,000,000
<b>Total</b>	<b>\$0</b>	<b>\$12,000,000</b>	<b>\$12,000,000</b>	<b>\$8,000,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$8,000,000</b>	<b>\$0</b>	<b>\$20,000,000</b>

Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Construction</b>	0	12,000,000	12,000,000	8,000,000	0	0	0	0	8,000,000	0	20,000,000
<b>Total</b>	<b>\$0</b>	<b>\$12,000,000</b>	<b>\$12,000,000</b>	<b>\$8,000,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$8,000,000</b>	<b>\$0</b>	<b>\$20,000,000</b>

**Operating Impact**

Operating impacts have not been determined at this time. Estimates may become available after Request for Proposals are issued, and as these costs are quantified, adjustments will be brought forward in future budgets as necessary.

<p><b>Relationship to Comprehensive Plan</b>  <b>Primary Connection</b></p> <p>Element: Business &amp; Economics                  Section: Culture of Innovation and Business Diversity                  Goal: B-4                  Policy: B-4.1</p> <p><b>Environmental Impact Analysis:</b>                  This project is expected to have a possible exemption from CEQA under Section 15301, 15302, 15303 or 15304(f).</p>	<p><b>Potential Board/Commission Review:</b></p> <p>Planning and Transportation Commission                  Utilities Advisory Commission                  Architectural Review Board</p>
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# Customer Connections

# FIBER OPTICS FUND



**Fund:** Fiber Optics Fund  
**Category:** Customer Connections  
**Project Location:** Various locations  
**Managing Department:** Utilities  
**Initial Project Start:** Recurring  
**Initial Project Completion:** Recurring  
**Revised Project Start:** N/A  
**Revised Project Completion:** N/A  
**Project Number:** FO-10000

Technician installing new fiber optic cables

## Fiber Optics Customer Connections

### Description

This project provides funding for the installation of fiber optic infrastructure for new service connections. Typical activities in this project include: purchasing, upgrading, and installing fiber optic cables, conduits, and splice enclosures at customer sites.

### Justification

This project promotes the formation of a competitive market for telecommunications in Palo Alto, accelerating the pace at which high-quality, low-cost, advanced telecommunications services are delivered to businesses while limiting the negative impacts on Palo Alto's environment by using existing conduits and wood utility poles rather than adding additional infrastructure to support the system. This project enables the Fiber Optics Fund to generate additional revenues through the enhanced use of its conduits and poles.

### Supplemental Information

The cost to the Fiber Optics Fund associated with new service connections and the City's cost of ownership are billed to the requesting parties.

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Fiber Optics Fund</b>	N/A	151,600	151,600	53,100	54,100	54,900	63,000	0	225,100	0	N/A
<b>Other</b>	N/A	200,000	200,000	200,000	200,000	200,000	200,000	200,000	1,000,000	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$351,600</b>	<b>\$351,600</b>	<b>\$253,100</b>	<b>\$254,100</b>	<b>\$254,900</b>	<b>\$263,000</b>	<b>\$200,000</b>	<b>\$1,225,100</b>	<b>\$0</b>	<b>N/A</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Construction</b>	N/A	351,600	351,600	253,100	254,100	254,900	263,000	200,000	1,225,100	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$351,600</b>	<b>\$351,600</b>	<b>\$253,100</b>	<b>\$254,100</b>	<b>\$254,900</b>	<b>\$263,000</b>	<b>\$200,000</b>	<b>\$1,225,100</b>	<b>\$0</b>	<b>N/A</b>

### Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

<p><b>Relationship to Comprehensive Plan</b>  <b>Primary Connection</b></p> <p>Element: Business &amp; Economics                  Section: Culture of Innovation and Business Diversity                  Goal: B-4                  Policy: B-4.1</p>	<p><b>Potential Board/Commission Review:</b></p> <p>Planning and Transportation Commission                  Utilities Advisory Commission                  Architectural Review Board</p>
<p><b>Environmental Impact Analysis:</b>                  This project is expected to have a possible exemption from CEQA under Section 15302.</p>	



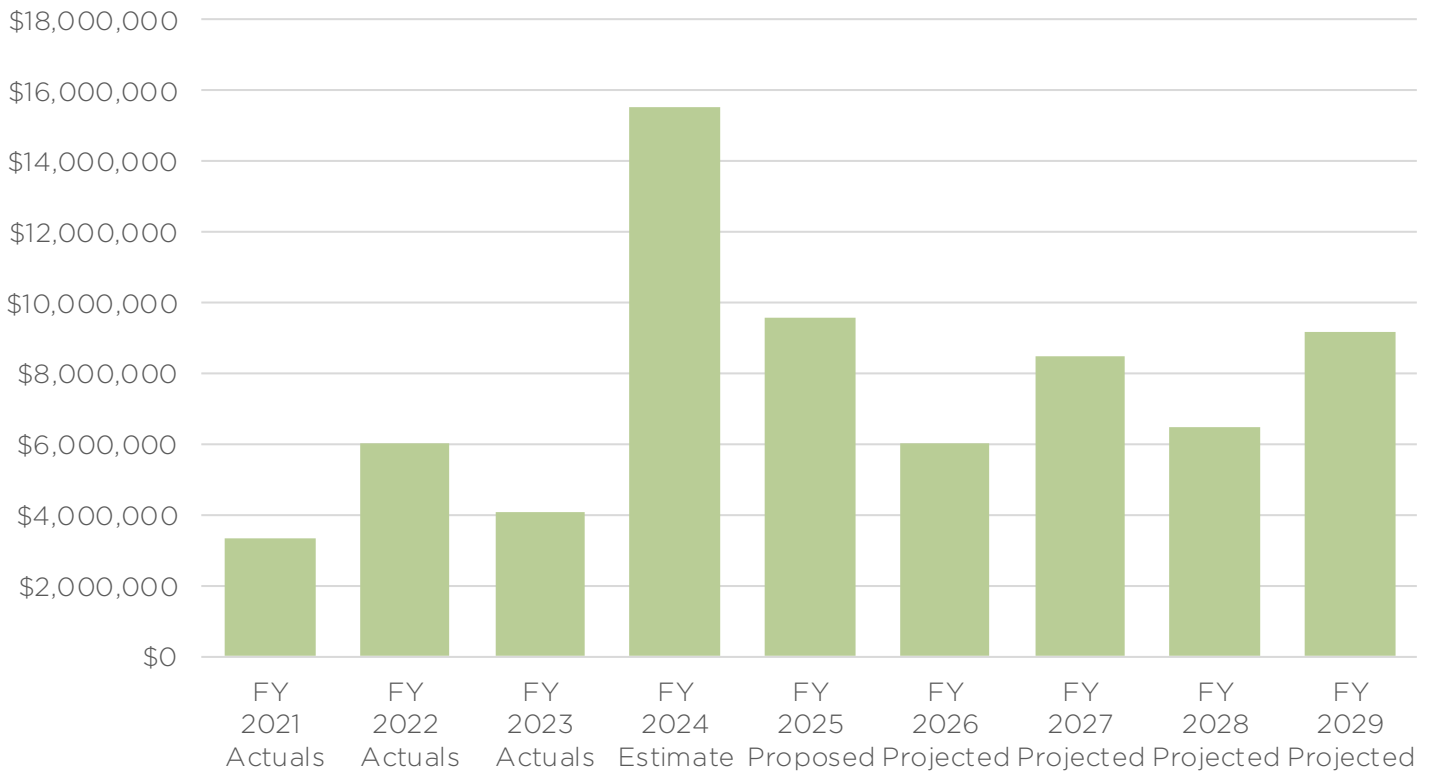
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# GAS FUND

# Overview

The City of Palo Alto offers a full array of utility services to its citizens and businesses. The municipal natural gas distribution system began operation in 1917 and provides safe, reliable, and cost-effective gas service to residents and customers of Palo Alto. For the 2025-2029 Capital Improvement Program (CIP), approximately \$39.7 million is projected, with \$9.6 million allocated in Fiscal Year 2025. Overall, a total of nine projects are planned for the 5-year CIP.

## Gas Fund Expenditures



Major projects funded in the 2025-2029 CIP include Gas Main Replacements (cumulative total of \$29.6 million), Gas System, Customer Connections (\$3.6 million), Gas Distribution System Improvements (\$2.5 million), and Gas Meters and Regulators (\$2.5 million). The budget for the Gas Fund CIP can be categorized into three separate types of projects: Gas Main Replacements, Customer Connections, and System Improvements.

## Infrastructure Inventory

CLASSIFICATION	QUANTITY
Total miles of gas main distribution system	210.58
Total miles of gas service extension to residents and businesses	200.83
Number of gas receiving stations	4

## Natural Gas System Miles of Pipeline by Material

MATERIAL TYPE	MILES OF MAINS IN SYSTEM	NUMBER OF SERVICES IN SYSTEM	MILES OF SERVICES IN SYSTEM (AVG 61' SERVICE)
Steel	61.46	2,112	24.4
Plastic, PVC	30.60	669	7.72
Plastic, PE	118.48	14,470	167.17
Plastic, ABS	0.03	12	0.14
Plastic, Other	0.01	4	0.05
Other	0.00	64	0.74
<b>TOTAL</b>	<b>210.58</b>	<b>17,331</b>	<b>200.21</b>

## Customer Connections

As customers continually change their gas needs due to equipment additions, building expansions, building remodels, and new building occupancy types, the gas system must evolve to meet these needs. The Gas System Customer Connections project, which is one of the largest recurring projects within the Gas Fund, is accounted for within this category. This project allows for the completion of work required to meet the needs of customers who have applied for new or upgraded gas service. The Gas Fund pays for a portion of this project, while remaining costs are supported by reimbursements from customers for connection work performed by the City.

### Recent Accomplishments

- In Fiscal Year 2023, the Utilities Gas Division completed approximately 40 customer service projects at a cost of approximately \$0.2 million.

## 2025-2029 Capital Improvement Program

### Recurring Projects

Recurring projects in this category include the following:

- Gas System, Customer Connections (Fiscal Year 2025: \$0.8 million; 5-Year CIP: \$3.6 million)

## Gas Main Replacements

The Gas Main Replacements (GMR) category accounts for the replacement of inadequately-sized and structurally deficient gas mains and services that are subject to corrosion or reaching the end of their expected life. The Utilities Department coordinates with the Public Works Department's street maintenance projects to minimize impact to the streets that have recently been paved. In the next five years, it is anticipated that approximately 40,000 linear feet of gas mains, or four percent of the entire system, will be replaced. The 2025-2029 CIP includes \$29.6 million in funding for projects within this category.

### Recent Accomplishments

- Started construction on the Gas Main Replacement 24B project (GS-14003) to replace 18,500 linear feet of natural gas mains and approximately 190 natural gas service pipeline made of Polyvinyl Chloride (PVC) and Steel Black Wrap Pipe (BWP).
- Completed design work on the Gas Main Replacement 25 (GS-15000) project to replace 25,000 linear feet of natural gas mains, including replacement of approximately 320 natural gas service pipelines made of

## GAS FUND

PVC, BWP, or undersized Polyethylene (PE) and the reconnection of 225 natural gas service pipelines. This project was submitted for a Natural Gas Distribution Infrastructure Safety Modernization (NGDISM) grant application in August 2023 and award notices are expected in April 2024. If the City is not awarded grant funding for this project, the project will be modified to replace approximately 20,000 linear feet of gas main.

### 2025-2029 Capital Improvement Program

#### Non-Recurring Projects

A total of four Gas Main Replacement projects are included in the 2025-2029 CIP (Fiscal Year 2025: \$6.6 million; 5-Year CIP: \$29.6 million).

### System Improvements

To ensure reliable gas services for City of Palo Alto residents and customers, gas infrastructure must be replaced upon reaching the end of its expected life. The System Improvements category includes three projects during the 2025-2029 CIP at a total cost of \$6.5 million, with \$2.1 million allocated in Fiscal Year 2025. During Fiscal Year 2025, staff intends to commence a planning study to evaluate the preferred approach for downsizing the gas system and potentially begin planning of the first project. For FY 2025, staff is recommending funding (\$1.0 million) for the Design and Repair of Arastradero Creek.

#### Recent Accomplishments

- In calendar year 2023, repaired 101 Grade 1, 2, and 3 leaks throughout the City.
- Purchased new electrofusion machine for water, gas, and wastewater polyethylene pipe, new DataLogger 7 for hydraulic butt fusions on polyethylene pipe, and new set of small diameter squeezers to squeeze gas pipe.
- Replaced leaking valves and gas service lines, throughout the City, to comply with new utility standards.

### 2025-2029 Capital Improvement Program

#### Recurring Projects

There are three recurring projects in the System Improvements category in the 2025-2029 CIP:

- Gas Distribution System Improvements (Fiscal Year 2025: \$0.5 million; 5-Year CIP: \$2.5 million)
- Gas Equipment and Tools (Fiscal Year 2025: \$0.1 million; 5-Year CIP: \$0.5 million)
- Gas Meters and Regulators (Fiscal Year 2025: \$0.5 million; 5-Year CIP: \$2.5 million)

#### Non-Recurring Projects

There is one non-recurring project in the System Improvements category in the 2025-2029 CIP:

- Design and Repair of Arastradero Creek (Fiscal Year 2025: \$1.0 million)

Please refer to the City of Palo Alto Utilities webpage to confirm project details: <https://www.cityof-paloalto.org/Departments/Utilities/Utilities-Services-Safety/Utilities-Projects>



## Gas Fund

Project Number	Project Title	FY 2024 Budget	FY 2024 Estimate	FY 2025 Proposed	FY 2026	FY 2027	FY 2028	FY 2029	5-Year Total
<b>SOURCE OF FUNDS</b>									
<b>Other</b>									
<b>GS-80017</b>	Gas System, Customer Connections	500,000	500,000	500,000	500,000	500,000	500,000	500,000	2,500,000
<b>Other Total</b>		<b>\$500,000</b>	<b>\$500,000</b>	<b>\$500,000</b>	<b>\$500,000</b>	<b>\$500,000</b>	<b>\$500,000</b>	<b>\$500,000</b>	<b>\$2,500,000</b>
<b>Transfer from Water Fund</b>									
<b>GS-14003</b>	Gas Main Replacement - Project 24	171,590	171,590	0	0	0	0	0	0
<b>Transfer from Water Fund Total</b>		<b>\$171,590</b>	<b>\$171,590</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
<b>Total Sources</b>		<b>\$671,590</b>	<b>\$671,590</b>	<b>\$500,000</b>	<b>\$500,000</b>	<b>\$500,000</b>	<b>\$500,000</b>	<b>\$500,000</b>	<b>\$2,500,000</b>
<b>USE OF FUNDS</b>									
<b>Customer Connections</b>									
<b>GS-80017</b>	Gas System, Customer Connections	887,698	887,698	847,200	700,000	700,000	700,000	700,000	3,647,200
<b>Customer Connections Total</b>		<b>\$887,698</b>	<b>\$887,698</b>	<b>\$847,200</b>	<b>\$700,000</b>	<b>\$700,000</b>	<b>\$700,000</b>	<b>\$700,000</b>	<b>\$3,647,200</b>
<b>Main Replacements</b>									
<b>GS-13001</b>	Gas Main Replacement - Project 23	63,265	63,265	0	0	0	0	0	0
<b>GS-14003</b>	Gas Main Replacement - Project 24	9,776,974	8,926,974	850,000	0	0	0	0	850,000
<b>GS-15000</b>	Gas Main Replacement - Project 25	3,703,849	3,703,849	5,775,000	0	0	0	0	5,775,000
<b>GS-16000</b>	Gas Main Replacement - Project 26	0	0	0	4,216,000	6,665,496	0	0	10,881,496
<b>GS-20000</b>	Gas Main Replacement - Project 27	0	0	0	0	0	4,683,622	7,404,806	12,088,428
<b>Main Replacements Total</b>		<b>\$13,544,088</b>	<b>\$12,694,088</b>	<b>\$6,625,000</b>	<b>\$4,216,000</b>	<b>\$6,665,496</b>	<b>\$4,683,622</b>	<b>\$7,404,806</b>	<b>\$29,594,924</b>
<b>System Improvements</b>									
<b>GS-11002</b>	Gas Distribution System Improvements	1,282,546	1,282,546	500,000	500,000	500,000	500,000	500,000	2,500,000
<b>GS-13002</b>	Gas Equipment and Tools	118,967	118,967	100,000	100,000	100,000	100,000	100,000	500,000
<b>GS-25001</b>	Gas Line Repair at Arastradero Creek	0	0	1,000,000	0	0	0	0	1,000,000
<b>GS-80019</b>	Gas Meters and Regulators	532,482	532,482	500,000	500,000	500,000	500,000	500,000	2,500,000
<b>System Improvements Total</b>		<b>\$1,933,995</b>	<b>\$1,933,995</b>	<b>\$2,100,000</b>	<b>\$1,100,000</b>	<b>\$1,100,000</b>	<b>\$1,100,000</b>	<b>\$1,100,000</b>	<b>\$6,500,000</b>
<b>Total Uses</b>		<b>\$16,365,781</b>	<b>\$15,515,781</b>	<b>\$9,572,200</b>	<b>\$6,016,000</b>	<b>\$8,465,496</b>	<b>\$6,483,622</b>	<b>\$9,204,806</b>	<b>\$39,742,124</b>



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# Customer Connections

# GAS FUND



**Fund:** Gas Fund  
**Category:** Customer Connections  
**Project Location:** Various locations  
**Managing Department:** Utilities  
**Initial Project Start:** Recurring  
**Initial Project Completion:** Recurring  
**Revised Project Start:** N/A  
**Revised Project Completion:** N/A  
**Project Number:** GS-80017

Gas System

## Gas System, Customer Connections

### Description

This funding allows for the Gas Distribution System to be extended in order to provide gas service to new customers and augment service to customers with increased natural gas demands. Improvements include new mains, services, valves, regulators, meters, and accessories.

### Justification

This project upgrades infrastructure to provide gas service connections to new customers, meet changes in existing customer service demands, and respond to changes in gas service requirements due to new development or redevelopment. This project is funded partially from reimbursements by customers.

### Significant Changes

**2024-2028 CIP:** Project decreased from \$1.1 million to \$0.7 million annually as a result of statewide reach code programs to drive long-term climate and energy efficiency benefits. As part of the FY 2024 Operating Budget, staff is recommending funding (\$0.4 million) for a study to begin the process of decommissioning the City's gas service. The results of this study will impact customer connections and inform future CIP development.

**2021-2025 CIP:** Funding was decreased slightly to reflect actual expenditures from prior years.

**2015-2019 CIP:** Project was retitled from Gas Systems Extensions.

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Gas Fund	N/A	387,698	387,698	347,200	200,000	200,000	200,000	200,000	1,147,200	0	N/A

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Other	N/A	500,000	500,000	500,000	500,000	500,000	500,000	500,000	2,500,000	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$887,698</b>	<b>\$887,698</b>	<b>\$847,200</b>	<b>\$700,000</b>	<b>\$700,000</b>	<b>\$700,000</b>	<b>\$700,000</b>	<b>\$3,647,200</b>	<b>\$0</b>	<b>N/A</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Construction	N/A	887,698	887,698	847,200	700,000	700,000	700,000	700,000	3,647,200	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$887,698</b>	<b>\$887,698</b>	<b>\$847,200</b>	<b>\$700,000</b>	<b>\$700,000</b>	<b>\$700,000</b>	<b>\$700,000</b>	<b>\$3,647,200</b>	<b>\$0</b>	<b>N/A</b>

### Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

<p><b>Relationship to Comprehensive Plan</b>  <b>Primary Connection</b></p> <p>Element: Natural Environment                  Section: Energy                  Goal: N-7                  Policy: N-7.1</p> <p><b>Environmental Impact Analysis:</b>                  This project is expected to have a possible exemption from CEQA under Section 15302.</p>	<p><b>Potential Board/Commission Review:</b></p> <p>Planning and Transportation Commission                  Utilities Advisory Commission</p>
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# Main Replacements



**Fund:** Gas Fund  
**Category:** Main Replacements  
**Project Location:** Various locations  
**Managing Department:** Utilities  
**Initial Project Start:** Summer 2017  
**Initial Project Completion:** Winter 2020  
**Revised Project Start:** Summer 2022  
**Revised Project Completion:** Winter 2024  
**Project Number:** GS-14003

Installation of new HDPE gas service main

## Gas Main Replacement - Project 24

### Description

This project replaces approximately 21,000 linear feet (which represents 2.3% of the City's Gas Distribution System) of leaking, inadequately-sized, and structurally deficient gas mains and services located on various streets in neighborhoods of the Stanford Research Park, Crescent Park and University Park. Staff identifies problematic mains/services by researching maintenance and leak histories, analyzing performance of the entire Gas Distribution System, and considering risks ratings of the Distribution Integrity Management Plan.

### Justification

The project will target replacing PVC mains and services located in business districts and steel mains and services with ineffective corrosion protection, also known as cathodic protection. This project is mandatory due to the need to replace aging infrastructure and to reduce the City's liability exposure due to PVC and steel gas facilities with ineffective cathodic protection.

### Supplemental Information

The City of Palo Alto Distribution Integrity Management Plan's mathematical model is used to evaluate risks presented by PVC and steel facilities, located within business districts that have been assigned the highest probability and consequence scores. Targeted streets will be coordinated with the Public Works Street Maintenance Program to complete replacement before streets are paved. Linear footage and locations are subject to change. Please refer to the City of Palo Alto Utilities webpage for the most recent project details.

### Significant Changes

**2025-2029 CIP:** Total project increased by approximately \$1.4 million, for a total project cost of \$11.4 million due to cost escalation. Funding from the Water Fund (\$0.2 million) transferred in FY 2024 for the water main and services replaced at Town & Country Village Plaza at Embarcadero Road and El Camino Real.



**2024-2028 CIP:** The Stanford Shopping Center was completed in Spring 2023. The remaining area is ready for bidding, and construction is anticipated to start in Winter 2023.

**2023-2027 CIP:** \$1.0 million was reallocated from GMR 25 to this project's schedule to address higher priority mains and services recently identified. This will decrease the linear footage of GMR 25 by approximately 5,000 feet and increase the linear footage of this project by approximately 5,000 feet, resulting in a net zero change of linear feet of PVC pipes being addressed in the Gas Distribution system.

**2022-2026 CIP:** To maintain the Gas fund reserve within acceptable target levels and keep rate increases low, the project budget for GMR 24 has decreased by \$2.0 million.

**2021-2025 CIP:** Due to delays of GMR 23, construction for GMR 24 is being postponed to FY 2023.

**2020-2024 CIP:** City staff has proposed a new replacement schedule of completing a water, gas and wastewater construction project every other year instead of annually to reduce the amount of construction when prices are high. In the last few years there have been fewer bidders and higher prices on construction projects due to the increased demand for construction services. Revised total project estimate to \$11.0 million, an increase of \$3.8 million, due to higher construction costs. Project scope increased by 4,030 in linear footage.

**2019-2023 CIP:** The budget has been revised to account for construction cost escalation.

**2018-2022 CIP:** Due to delays of GMR 22 and GMR 23, GMR 24 is being postponed to FY 2019.

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Gas Fund</b>	1,632,351	9,605,384	8,755,384	850,000	0	0	0	0	850,000	0	11,237,735
<b>Transfer from Water Fund</b>	0	171,590	171,590	0	0	0	0	0	0	0	171,590
<b>Total</b>	<b>\$1,632,351</b>	<b>\$9,776,974</b>	<b>\$8,926,974</b>	<b>\$850,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$850,000</b>	<b>\$0</b>	<b>\$11,409,325</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Construction</b>	1,425,913	9,776,974	8,926,974	850,000	0	0	0	0	850,000	0	11,202,887
<b>Design</b>	206,422	0	0	0	0	0	0	0	0	0	206,422
<b>Total</b>	<b>\$1,632,335</b>	<b>\$9,776,974</b>	<b>\$8,926,974</b>	<b>\$850,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$850,000</b>	<b>\$0</b>	<b>\$11,409,309</b>

### Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

# GAS FUND

**Relationship to Comprehensive Plan  
Primary Connection**

Element: Natural Environment  
Section: Energy  
Goal: N-7  
Policy: N-7.1

**Potential Board/Commission Review:**

Planning and Transportation  
Commission  
Utilities Advisory Commission

**Environmental Impact Analysis:**

This project is expected to have a possible exemption from CEQA under Section 15301.



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**Fund:** Gas Fund  
**Category:** Main Replacements  
**Project Location:** Various locations  
**Managing Department:** Utilities  
**Initial Project Start:** Summer 2018  
**Initial Project Completion:** Winter 2020  
**Revised Project Start:** Summer 2024  
**Revised Project Completion:** Winter 2025  
**Project Number:** GS-15000

**New gas service meter and regulating equipment**

# Gas Main Replacement - Project 25

## Description

This Gas Main Replacement (GMR) project replaces approximately 26,500 linear feet (which represents 2.4% of the City's Gas Distribution System) of leaking, inadequately-sized, and structurally deficient gas mains and services located on various streets in the neighborhoods of Community Center, Leland Manor, Midtown, and Palo Verde neighborhoods. Staff identifies problematic mains/services by researching maintenance and leak histories, analyzing performance of the entire Gas Distribution System, and considering risks ratings of the Distribution Integrity Management Plan.

## Justification

The project will target replacing PVC mains and services, also known in the industry as cathodic protection, located in business districts and steel mains and services with ineffective corrosion protection. This project is mandatory due to the need to replace aging infrastructure and to reduce the City's liability exposure due to PVC and steel gas facilities with ineffective cathodic protection.

## Supplemental Information

The City of Palo Alto Distribution Integrity Management Plan's mathematical model is used to evaluate risks presented by PVC facilities located within business districts that have been assigned the highest probability and consequence scores. Targeted streets will be coordinated with the Public Works Street Maintenance Program to complete replacement before streets are paved. Linear footage and locations are subject to change. Please refer to the City of Palo Alto Utilities webpage for the most recent project details.

## Significant Changes

**2025-2029 CIP:** In FY 2024, this project was reduced by \$1.0 million for GMR 24B (GS-14003) to offset escalating costs. This project has been chosen for Department of Transportation's grant award for Natural Gas Distri-

bution Infrastructure Safety and Modernization.† The funding amount of the grant has not yet been announced.

**2024-2028 CIP:** Water-Gas-Wastewater Engineering staff to start design of the project in FY 2024. Staff will be submitting an application for Federal Grant Funding for this project.

**2023-2027 CIP:** \$1.0 million of this project budget was reallocated to GMR 24 to address higher priority mains and services identified. This will decrease the linear footage of this project by approximately 5,000 feet and increase the linear footage of GMR 24 by approximately 5,000 feet, resulting in a net zero change of linear feet of PVC pipes being addressed in the Gas Distribution system.

**2021-2025 CIP:** Due to delays of GMR 22, GMR 23, and GMR 24, GMR 25 postponed to FY 2024.

**2020-2024 CIP:** City staff has proposed a new replacement schedule of completing a water, gas and wastewater construction project every other year instead of annually to reduce the amount of construction when prices are high. Revised total project estimate to \$12.0 million, an increase of \$3.8 million, due to higher construction costs. In the last few years there have been fewer bidders and higher prices on construction projects due to the increased demand for construction services.

**2019-2023 CIP:** The budget has been revised to account for construction cost escalation.

**2018-2022 CIP:** Project postponed to begin in FY 2020 due to GMR 22 being delayed.

### Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Gas Fund	0	3,703,849	3,703,849	5,775,000	0	0	0	0	5,775,000	0	9,478,849
<b>Total</b>	<b>\$0</b>	<b>\$3,703,849</b>	<b>\$3,703,849</b>	<b>\$5,775,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$5,775,000</b>	<b>\$0</b>	<b>\$9,478,849</b>

### Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Construction	0	1,769,973	1,769,973	3,853,530	0	0	0	0	3,853,530	0	5,623,503
Design	0	1,933,876	1,933,876	1,921,470	0	0	0	0	1,921,470	0	3,855,346
<b>Total</b>	<b>\$0</b>	<b>\$3,703,849</b>	<b>\$3,703,849</b>	<b>\$5,775,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$5,775,000</b>	<b>\$0</b>	<b>\$9,478,849</b>

### Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

# GAS FUND

**Relationship to Comprehensive Plan  
Primary Connection**

Element: Natural Environment  
Section: Energy  
Goal: N-7  
Policy: N-7.1

**Potential Board/Commission Review:**

Planning and Transportation  
Commission  
Utilities Advisory Commission

**Environmental Impact Analysis:**

This project is expected to have a possible exemption from CEQA under Section 15302.



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**Fund:** Gas Fund  
**Category:** Main Replacements  
**Project Location:** Various locations  
**Managing Department:** Utilities  
**Initial Project Start:** Summer 2019  
**Initial Project Completion:** Winter 2021  
**Revised Project Start:** Summer 2025  
**Revised Project Completion:** Fall 2026  
**Project Number:** GS-16000

Gas Main Replacement - Project 26

## Gas Main Replacement - Project 26

### Description

This project replaces approximately 22,300 linear feet (which represents 2.0% of the City's Gas Distribution System) of leaking, inadequately-sized, and structurally deficient gas mains and services located on various streets in the Midtown, Palo Verde, Greenmeadow, and Evergreen Park neighborhoods. Staff identifies problematic mains/services by researching maintenance and leak histories, analyzing performance of the entire gas distribution system, and considering risks ratings of the Distribution Integrity Management Plan.

### Justification

The project will target replacing PVC mains and services located in business districts and steel mains and services with ineffective corrosion protection, also known in the industry as cathodic protection. This project is mandatory due to the need to replace aging infrastructure and to reduce the City's liability exposure due to PVC and steel gas facilities with ineffective cathodic protection.

### Supplemental Information

The City of Palo Alto Distribution Integrity Management Plan's mathematical model is used to evaluate risks presented by PVC facilities located within business districts assigned the highest probability and consequence scores. Targeted streets will be coordinated with the Public Works Street Maintenance Program to complete replacement before streets are paved. Linear footage and locations are subject to change. Please refer to the City of Palo Alto Utilities webpage for the most recent project details.

### Significant Changes

**2025-2028 CIP:** Project budget increased by \$0.9 million to \$10.9 million to keep pace with inflation.

**2023-2027 CIP:** Project budget decreased by \$1.0 million to align with other gas main replacement budgets and smooth out rates.



**2022-2026 CIP:** Due to delays of GMR 23, GMR 24, and GMR 25, GMR 26 was postponed to FY 2026.

**2019-2023 CIP:** The budget has been revised to account for construction cost escalation.

**2018-2022 CIP:** Due to delays of GMR 22 and GMR 23, this project is postponed to FY 2021.

### Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Gas Fund</b>	0	0	0	0	4,216,000	6,665,496	0	0	10,881,496	0	10,881,496
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$4,216,000</b>	<b>\$6,665,496</b>	<b>\$0</b>	<b>\$0</b>	<b>\$10,881,496</b>	<b>\$0</b>	<b>\$10,881,496</b>

### Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Construction</b>	0	0	0	0	1,093,600	2,046,626	0	0	3,140,226	0	3,140,226
<b>Design</b>	0	0	0	0	3,122,400	4,618,870	0	0	7,741,270	0	7,741,270
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$4,216,000</b>	<b>\$6,665,496</b>	<b>\$0</b>	<b>\$0</b>	<b>\$10,881,496</b>	<b>\$0</b>	<b>\$10,881,496</b>

### Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

<p><b>Relationship to Comprehensive Plan</b>  <b>Primary Connection</b></p> <p>Element: Natural Environment                  Section: Energy                  Goal: N-7                  Policy: N-7.1</p> <p><b>Environmental Impact Analysis:</b>                  This project is expected to have a possible exemption from CEQA under Section 15302.</p>	<p><b>Potential Board/Commission Review:</b></p> <p>Planning and Transportation Commission                  Utilities Advisory Commission</p>
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**Fund:** Gas Fund  
**Category:** Main Replacements  
**Project Location:** Various locations  
**Managing Department:** Utilities  
**Initial Project Start:** Summer 2020  
**Initial Project Completion:** Winter 2022  
**Revised Project Start:** Summer 2028  
**Revised Project Completion:** Winter 2030  
**Project Number:** GS-20000

New gas service meter and regulating equipment

# Gas Main Replacement - Project 27

## Description

This project replaces approximately 20,000 linear feet (which represents 1.8% of the City's Gas Distribution System) of leaking, inadequately-sized, and structurally deficient gas mains and services located on various streets in the Palo Verde, Crescent Park and University South neighborhoods. Staff identifies problematic mains/services by researching maintenance and leak histories, analyzing performance of the entire gas distribution system, and considering risk ratings of the Distribution Integrity Management Plan.

## Justification

The project will target replacing PVC mains and service, also known in the industry as cathodic protection, located in business districts and steel mains and services with ineffective corrosion protection. This project is mandatory due to the need to replace aging infrastructure and to reduce the City's liability exposure due to PVC and steel gas facilities with ineffective cathodic protection.

## Supplemental Information

The City of Palo Alto Distribution Integrity Management Plan's mathematical model is used to evaluate risks presented by PVC facilities, located within business districts that have been assigned the highest probability and consequence scores. Targeted streets will be coordinated with the Public Works Street Maintenance Program to complete replacement before streets are paved. Linear footage and locations are subject to change. Please refer to the City of Palo Alto Utilities webpage for the most recent project details.

## Significant Changes

**2025-2029 CIP:** Project budget increased by \$2.1 million to \$12.1 million to keep pace with inflation.

**2024-2028 CIP:** Due to project coordination and low capital reserves, the main replacement projects moved to construction every other year. The project design will begin in FY28 for construction in FY29.

**2019-2023 CIP:** The budget has been revised to account for construction cost escalation.

**2018-2022 CIP:** Due to delays of GMR 22 and GMR 23, this project is postponed to FY 2022.

### Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Gas Fund</b>	0	0	0	0	0	0	4,683,622	7,404,806	12,088,428	0	12,088,428
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$4,683,622</b>	<b>\$7,404,806</b>	<b>\$12,088,428</b>	<b>\$0</b>	<b>\$12,088,428</b>

### Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Construction</b>	0	0	0	0	0	0	3,000,000	7,404,806	10,404,806	0	10,404,806
<b>Design</b>	0	0	0	0	0	0	1,683,622	0	1,683,622	0	1,683,622
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$4,683,622</b>	<b>\$7,404,806</b>	<b>\$12,088,428</b>	<b>\$0</b>	<b>\$12,088,428</b>

### Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

<p><b>Relationship to Comprehensive Plan</b>  <b>Primary Connection</b></p> <p>Element: Natural Environment                  Section: Energy                  Goal: N-7                  Policy: N-7.1</p> <p><b>Environmental Impact Analysis:</b>                  This project is expected to have a possible exemption from CEQA under Section 15301.</p>	<p><b>Potential Board/Commission Review:</b></p> <p>Planning and Transportation Commission                  Utilities Advisory Commission</p>
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# System Improvements

# GAS FUND



**Fund:** Gas Fund  
**Category:** System Improvements  
**Project Location:** Various locations  
**Managing Department:** Utilities  
**Initial Project Start:** Recurring  
**Initial Project Completion:** Recurring  
**Revised Project Start:** N/A  
**Revised Project Completion:** N/A  
**Project Number:** GS-11002

Gas system improvements

## Gas Distribution System Improvements

### Description

This project provides funding as needed to improve the Gas Distribution System. Typical activities include: security, SCADA and software upgrades, increasing distribution system capacity for load growth, replacing deteriorated capital facilities, re-configuring/adding to the system to improve service reliability, conducting research related to performance of the Gas Distribution System or its various components, and making general improvements or repairs to the system.

### Justification

Gas Distribution System reliability and adequate capacity are critical to providing a high level of service to customers. When service interruptions occur, customers may experience significant economic losses. The City must continuously evaluate service reliability needs and make improvements to the system to maintain top-level service to City customers.

### Significant Changes

**2020-2024 CIP:** Project funding increased in Fiscal Years 2020 to 2024 by \$254,000 each year. This project has been consolidated with GS-03009 as the project activities are similar in nature.

### Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Gas Fund	N/A	1,282,546	1,282,546	500,000	500,000	500,000	500,000	500,000	2,500,000	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$1,282,546</b>	<b>\$1,282,546</b>	<b>\$500,000</b>	<b>\$500,000</b>	<b>\$500,000</b>	<b>\$500,000</b>	<b>\$500,000</b>	<b>\$2,500,000</b>	<b>\$0</b>	<b>N/A</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Construction</b>	N/A	1,282,546	1,282,546	500,000	500,000	500,000	500,000	500,000	2,500,000	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$1,282,546</b>	<b>\$1,282,546</b>	<b>\$500,000</b>	<b>\$500,000</b>	<b>\$500,000</b>	<b>\$500,000</b>	<b>\$500,000</b>	<b>\$2,500,000</b>	<b>\$0</b>	<b>N/A</b>

### Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

<p><b>Relationship to Comprehensive Plan</b>  <b>Primary Connection</b></p> <p>Element: Natural Environment                  Section: Energy                  Goal: N-7                  Policy: N-7.1</p> <p><b>Environmental Impact Analysis:</b>                  This project is expected to have a possible exemption from CEQA under Section 15302.</p>	<p><b>Potential Board/Commission Review:</b></p> <p>Planning and Transportation Commission                  Utilities Advisory Commission</p>
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**Fund:** Gas Fund  
**Category:** System Improvements  
**Project Location:** Municipal Service Center  
**Managing Department:** Utilities  
**Initial Project Start:** Recurring  
**Initial Project Completion:** Recurring  
**Revised Project Start:** N/A  
**Revised Project Completion:** N/A  
**Project Number:** GS-13002

New HDPE gas pipe being fused prior to installation

# Gas Equipment and Tools

## Description

This project funds the purchase of polyethylene (PE) fusion equipment and tools, directional boring/locating equipment and tools, gas leak detection equipment, and general shop equipment and tools.

## Justification

In order to safely operate and maintain a natural gas distribution system and support operating personnel safety and productivity, PE fusion, directional boring/locating, and general equipment and tools need to be upgraded on an annual basis.

## Significant Changes

**2024-2028 CIP:** Project funding increased to \$100,000 annually to replace aging equipment that is continuously sent out for repair and market inflation.

**2022-2026 CIP:** The project funding has been reduced to \$50,000 annually to align with actual costs incurred in this project.

**2019-2023 CIP:** Project funding increased to include purchase of new tapping and stopping equipment for Operations. This equipment is required to safely interrupt the flow of gas without performing large shutdowns of service to customers.

**2015-2019 CIP:** Project was retitled from General Shop Equipment and Tools.



## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Gas Fund</b>	N/A	118,967	118,967	100,000	100,000	100,000	100,000	100,000	500,000	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$118,967</b>	<b>\$118,967</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>	<b>\$0</b>	<b>N/A</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Construction</b>	N/A	118,967	118,967	100,000	100,000	100,000	100,000	100,000	500,000	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$118,967</b>	<b>\$118,967</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>	<b>\$0</b>	<b>N/A</b>

### Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

<p><b>Relationship to Comprehensive Plan</b>  <b>Primary Connection</b></p> <p>Element: Natural Environment                  Section: Energy                  Goal: N-7                  Policy: N-7.1</p> <p><b>Environmental Impact Analysis:</b>                  This project is expected to have a possible exemption from CEQA under Section 15301.</p>	<p><b>Potential Board/Commission Review:</b></p> <p>Planning and Transportation Commission                  Utilities Advisory Commission</p>
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**Fund:** Gas Fund  
**Category:** System Improvements  
**Project Location:** Arastradero Creek  
**Managing Department:** Utilities  
**Initial Project Start:** Fall 2024  
**Initial Project Completion:** Summer 2025  
**Revised Project Start:** N/A  
**Revised Project Completion:** N/A  
**Project Number:** GS-25001

Gas line exposure at Arastradero Creek

## Gas Line Repair at Arastradero Creek

### Description

This project will hire a design-build consultant to analyze the existing watershed that runs into Arastradero Creek, including Arastradero Lake in the Pearson-Arastradero Preserve to determine the source of a six-foot soil erosion head cut (or opening) that exposed a 8-inch gas pipeline crossing the creek. The Consultant is tasked with gathering the required information from the area, proposing a cost effective and efficient project, working with regulatory agencies for permitting, constructing the project, and completing the required biological monitoring once the project is completed.

### Justification

In March 2023, the Utilities Department was informed of an exposed 8-inch high pressure gas pipeline that crosses Arastradero Creek in the Pearson-Arastradero Preserve. It was also determined a 16" potable water pipeline and a 16" collection sewer main were threatened from exposure of future storms. Utilities completed a temporary stabilization project in September 2023 to protect the existing pipelines from the 2024 storms. As part of the emergency permit, the permitting agencies are requiring a permanent stabilization project of the creek or a permanent relocation of the utility pipelines. In order to protect the single natural gas feed and potable water feed to the Foothills, a six-foot head cut will need to be addressed or the pipelines will need to be re-routed. An environmental design-build consultant is needed to analyze the watershed and propose a project to protect the utility pipelines.

### Significant Changes

**2025-2029 CIP:** Project established. The Water and Wastewater Collection Funds will contribute funding to this project. Funding amounts will be determined after construction bids are received.

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Gas Fund</b>	0	0	0	1,000,000	0	0	0	0	1,000,000	0	1,000,000
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,000,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,000,000</b>	<b>\$0</b>	<b>\$1,000,000</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Construction</b>	0	0	0	332,720	0	0	0	0	332,720	0	332,720
<b>Design</b>	0	0	0	667,280	0	0	0	0	667,280	0	667,280
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,000,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,000,000</b>	<b>\$0</b>	<b>\$1,000,000</b>

### Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

**Relationship to Comprehensive Plan  
Primary Connection**

Element: Natural Environment  
Section: Energy  
Goal: N-7  
Policy: N-7.1

**Potential Board/Commission Review:**

Planning and Transportation  
Commission  
Utilities Advisory Commission

**Environmental Impact Analysis:**

This project is expected to have a possible exemption from CEQA under Section 15301.



**Fund:** Gas Fund  
**Category:** System Improvements  
**Project Location:** Various locations  
**Managing Department:** Utilities  
**Initial Project Start:** Recurring  
**Initial Project Completion:** Recurring  
**Revised Project Start:** N/A  
**Revised Project Completion:** N/A  
**Project Number:** GS-80019

### Gas Meters and Regulators

# Gas Meters and Regulators

## Description

This project provides replacement of the existing meters and regulators at approximately 1,000 meter sets per year.

## Justification

The meter replacement program ensures accuracy of gas consumption measurement, reduces possible revenue loss due to under-registering gas, and provides customers with accurate monthly bills. The program exchanges meters that are over 25 years old.

## Significant Changes

**2022-2026 CIP:** The Advanced Metering Infrastructure (AMI) Project is expected to replace approximately 2,000 gas meters with meters that are compatible with a smart grid system to collect interval usage information remotely. After reviewing gas meter accuracy test results, staff determined that it is unnecessary to replace all meters that have been in service more than 30 years, because their reading accuracy was within plus or minus a 2 percent range. A small number of ultrasonic gas meters will be piloted and evaluated during the project. The remaining 22,000 meters will be assessed for their compatibility with the AMI smart grid and will either be retrofitted or replaced.

**2021-2025 CIP:** The Advanced Metering Infrastructure (AMI) Project is expected to replace up to 11,906 gas meters with meters that are compatible with a smart grid system to collect usage information remotely. The remaining 12,287 meters will be assessed for their compatibility with the AMI smart grid and will either be retrofitted or replaced.

**2020-2024 CIP:** The number of meters replaced annually was updated from 2,000 to 1,000 meters and the annual funding has been reduced to \$250,000 throughout the 2020-2024 CIP. Staff have adjusted the replacement number and budget accordingly after reviewing their workload and available resources.

### Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Gas Fund	N/A	532,482	532,482	500,000	500,000	500,000	500,000	500,000	2,500,000	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$532,482</b>	<b>\$532,482</b>	<b>\$500,000</b>	<b>\$500,000</b>	<b>\$500,000</b>	<b>\$500,000</b>	<b>\$500,000</b>	<b>\$2,500,000</b>	<b>\$0</b>	<b>N/A</b>

### Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Construction	N/A	532,482	532,482	500,000	500,000	500,000	500,000	500,000	2,500,000	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$532,482</b>	<b>\$532,482</b>	<b>\$500,000</b>	<b>\$500,000</b>	<b>\$500,000</b>	<b>\$500,000</b>	<b>\$500,000</b>	<b>\$2,500,000</b>	<b>\$0</b>	<b>N/A</b>

### Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

<p><b>Relationship to Comprehensive Plan</b>  <b>Primary Connection</b></p> <p>Element: Natural Environment                  Section: Energy                  Goal: N-7                  Policy: N-7.1</p> <p><b>Environmental Impact Analysis:</b>                  This project is expected to have a possible exemption from CEQA under Section 15302.</p>	<p><b>Potential Board/Commission Review:</b></p> <p>Planning and Transportation Commission                  Utilities Advisory Commission</p>
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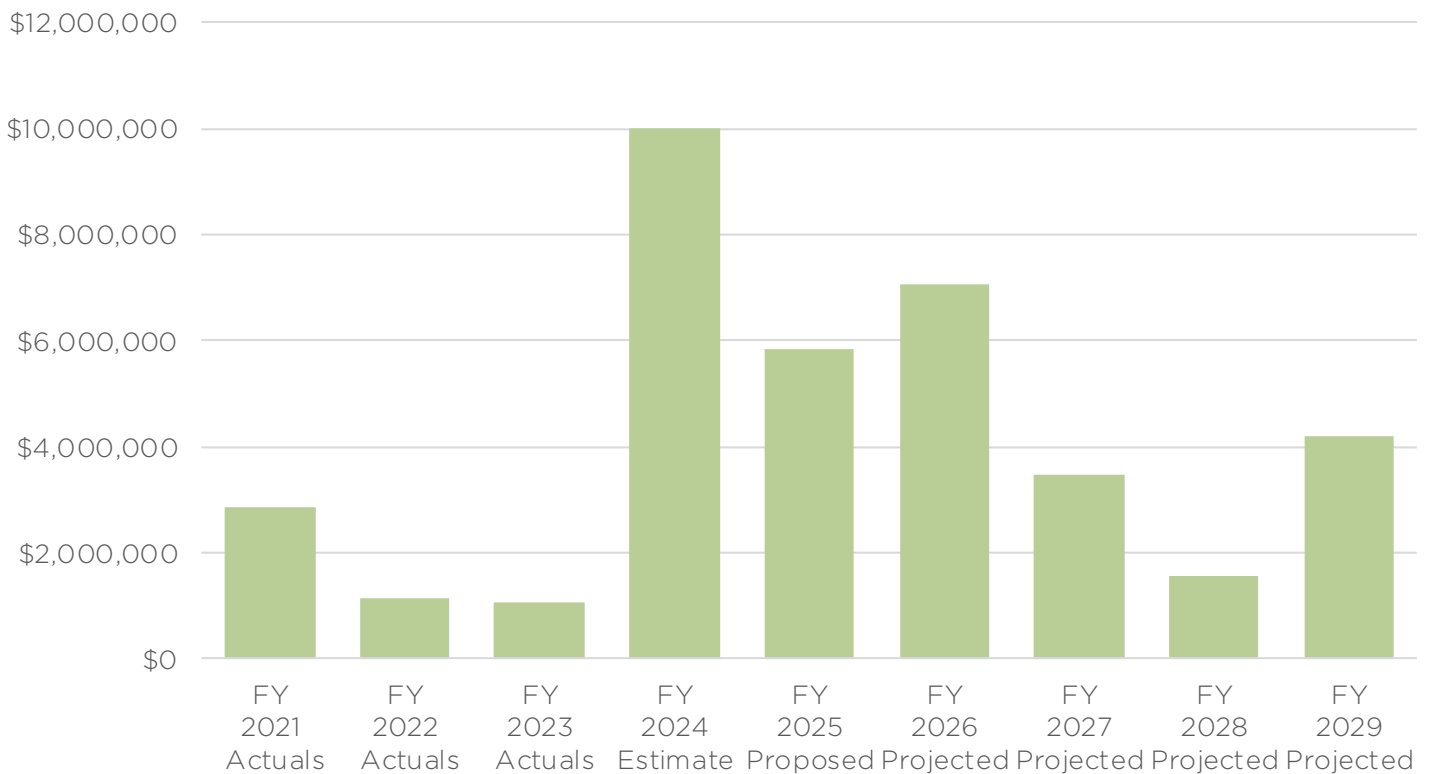
# STORMWATER MANAGEMENT FUND

# STORMWATER MANAGEMENT FUND

## Overview

The Stormwater Management Fund Capital Improvement Program (CIP) accounts for activities related to the improvement of the City's storm drain system (including pipelines, manholes, catch basins, and pump stations). The 2025-2029 CIP includes projects totaling \$22.2 million with Fiscal Year 2025 projects totaling \$5.8 million. The budget for the Stormwater Management CIP is divided into three categories: Capacity Improvements (projects to upgrade the conveyance capacity of the storm drain system as a whole), System Rehabilitation (projects for the replacement and rehabilitation of the existing storm drain infrastructure), and System Improvements (projects to enhance the quality and efficacy of the storm drain system).

## Stormwater Management Fund Expenditures



## Capacity Improvements

The Capacity Improvements category accounts for new or enhanced infrastructure added to the storm drain system, increasing its capacity to convey stormwater runoff to local creeks and San Francisco Bay. With the passage of the 2017 Storm Water Management Fee ballot measure, 13 capital improvement projects will be recommended over the following 15 years. The first of the 13 projects was completed in 2020, two more were completed in 2024 with five more projects scheduled to be completed within the next five years.

### Recent Accomplishments

- Completed Construction on two projects identified in the 2017 Storm Water Management Fee ballot measure: East Meadow Drive East to Adobe Creek Pump Station Project (SD-22000) and East Meadow Circle System Upgrades Project (SD-26000).



## 2025-2029 Capital Improvement Program

### Non-Recurring Projects

There are five projects in this category during the 2025-2029 CIP:

- Center Drive Capacity Upgrades (5-Year CIP: \$3.0 million)
- Hamilton Avenue System Upgrades (Fiscal Year 2025: \$0.1 million; 5-Year CIP: \$6.2 million)
- Louis Road System Upgrades (5-Year CIP: \$3.5 million)
- West Bayshore Road Pump Station (Fiscal Year 2025: \$1.0 million; 5-Year CIP: \$1.2 million)
- West Bayshore Road Trunk Line Improvements (Fiscal Year 2025 and 5-Year CIP: \$1.4 million)

The design and construction of the two new pump stations at Corporation Way and West Bayshore Road will reduce flooding where stormwater is discharged into Adobe Creek. The upgrade of pipes located under East Meadow Drive between East Meadow Circle and the Adobe Pump Station will reduce flooding in the area. Completing the East Meadow Circle Connection to Adobe Creek pump station project may allow the City to bid the two projects as one.

## System Improvements

The Systems Improvements category accounts for the Installation of features to improve and enhance the quality and efficacy of the current storm drain system. Funding is budgeted for system modifications needed to accommodate new operational requirements, such as the mandate in the Municipal Regional Stormwater Discharge Permit to incorporate trash capture devices into the storm drain system to reduce the amount of trash entering local creeks and San Francisco Bay and implementation of the Green Stormwater Infrastructure (GSI) Plan.

### Recent Accomplishments

- Completed construction of Trash Capture Device Installation project (SD-22002).

## 2025-2029 Capital Improvement Program

### Recurring Projects

The 2025-2029 CIP Includes funding for one recurring project in this category: Green Stormwater Infrastructure (Fiscal Year 2025 and 5-Year CIP: \$1.9 million), focused on the installation and integration of GSI features into other CIP projects to improve the quality of the City's storm drain system.

### Non-Recurring Projects

There are no non-recurring projects in this category for the 2025-2029 CIP.

## System Rehabilitation

The System Rehabilitation category accounts for the replacement or rehabilitation of deteriorated components of the storm drain system. Funding is budgeted annually to replace or rehabilitate storm drain pipelines, manholes, catch basins, and pump station equipment.

### Recent Accomplishments

- Completed a construction project that replaced broken pipes and storm drain improvements at eight locations that were identified as part of the 2022 New Year's Eve Storm event.

# STORMWATER MANAGEMENT FUND

## Infrastructure Inventory

CLASSIFICATION	QUANTITY
Storm drain pipelines	130 miles
Catch basins	3,500
Manholes	800
Stormwater pump stations	8

## 2025-2029 Capital Improvement Program

### Recurring Projects

The 2025-2029 CIP includes funding for one project in this category: Storm Drainage System Replacement and Rehabilitation (Fiscal Year 2025: \$1.5 million; 5-Year CIP: \$5.1 million), focused on the replacement and rehabilitation of the existing storm drain pipelines, manholes, and catch basins.

## Stormwater Management Fund

Project Number	Project Title	FY 2024 Budget	FY 2024 Estimate	FY 2025 Proposed	FY 2026	FY 2027	FY 2028	FY 2029	5-Year Total
<b>SOURCE OF FUNDS</b>									
<b>Revenue from the Federal Government</b>									
SD-22001	Green Stormwater Infrastructure	1,216,351	1,216,351	0	0	0	0	0	0
<b>Revenue from the Federal Government Total</b>		<b>\$1,216,351</b>	<b>\$1,216,351</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
<b>Revenue from the State of California</b>									
SD-22002	Trash Capture Device Installation	161,837	161,837	0	0	0	0	0	0
<b>Revenue from the State of California Total</b>		<b>\$161,837</b>	<b>\$161,837</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
<b>Total Sources</b>		<b>\$1,378,188</b>	<b>\$1,378,188</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
<b>USE OF FUNDS</b>									
<b>Capacity Improvements</b>									
SD-26001	Center Drive Capacity Upgrades	0	0	0	126,762	2,838,306	0	0	2,965,068
SD-21000	Corporation Way System Upgrades and Pump Station	3,965,323	3,965,323	0	0	0	0	0	0
SD-26000	East Meadow Circle Connection to Adobe Creek Pump Station	634,016	634,016	0	0	0	0	0	0
SD-22000	East Meadow Drive System Upgrades	631,669	631,668	0	0	0	0	0	0
SD-25000	Hamilton Avenue System Upgrades	0	0	89,973	6,062,566	0	0	0	6,152,539
SD-24000	Louis Road System Upgrades	0	0	0	0	0	0	3,495,507	3,495,507
SD-20000	West Bayshore Road Pump Station	1,416,104	1,416,103	989,713	220,457	0	0	0	1,210,170
SD-23000	West Bayshore Road Trunk Line Improvements	990,123	990,122	1,428,336	0	0	0	0	1,428,336
<b>Capacity Improvements Total</b>		<b>\$7,637,235</b>	<b>\$7,637,232</b>	<b>\$2,508,022</b>	<b>\$6,409,785</b>	<b>\$2,838,306</b>	<b>\$0</b>	<b>\$3,495,507</b>	<b>\$15,251,620</b>

# STORMWATER MANAGEMENT FUND

## Stormwater Management Fund *(Continued)*

Project Number	Project Title	FY 2024 Budget	FY 2024 Estimate	FY 2025 Proposed	FY 2026	FY 2027	FY 2028	FY 2029	5-Year Total
<b>System Improvements</b>									
SD-22001	Green Stormwater Infrastructure	2,135,609	480,071	1,861,940	0	0	0	0	1,861,940
SD-22002	Trash Capture Device Installation	556,822	556,822	0	0	0	0	0	0
<b>System Improvements Total</b>		<b>\$2,692,431</b>	<b>\$1,036,893</b>	<b>\$1,861,940</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,861,940</b>
<b>System Rehabilitation</b>									
SD-06101	Storm Drainage System Replacement And Rehabilitation	1,938,096	1,338,095	1,462,075	661,371	645,405	1,575,036	718,082	5,061,969
<b>System Rehabilitation Total</b>		<b>\$1,938,096</b>	<b>\$1,338,095</b>	<b>\$1,462,075</b>	<b>\$661,371</b>	<b>\$645,405</b>	<b>\$1,575,036</b>	<b>\$718,082</b>	<b>\$5,061,969</b>
<b>Total Uses</b>		<b>\$12,267,762</b>	<b>\$10,012,220</b>	<b>\$5,832,037</b>	<b>\$7,071,156</b>	<b>\$3,483,711</b>	<b>\$1,575,036</b>	<b>\$4,213,589</b>	<b>\$22,175,529</b>



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# Capacity Improvements

## STORMWATER MANAGEMENT FUND



**Fund:** Stormwater Management Fund  
**Category:** Capacity Improvements  
**Project Location:** Center Drive from Channing Ave to Hamilton Ave  
**Managing Department:** Public Works  
**Initial Project Start:** Fall 2025  
**Initial Project Completion:** Fall 2027  
**Revised Project Start:** N/A  
**Revised Project Completion:** N/A  
**Project Number:** SD-26001

Intersection of Alester and Channing (12/31/22)

# Center Drive Capacity Upgrades

## Description

This project provides funding to remove and replace approximately 1,710 linear feet of the existing storm drain pipes of various sizes (12 and 15 inches) with new 36-inch high-density polyethylene storm drain pipes, and add approximately 330 linear feet of new pipe from Hamilton Avenue to Channing Drive in order to increase the storm drain capacity. The pipes will continue to drain to Channing Drive, but this project will provide overflow to the Hamilton Avenue system. The project also includes replacing concrete inlets, manholes, and storm drain laterals, and relocating other utility laterals due to the pipe size changes.

## Justification

The existing pipes on Center Drive lack the capacity required to convey runoff from a 10-year storm event. Upsizing the pipes will achieve the level of service established by the City and benefit the Crescent Park Neighborhood. Upsizing the existing lines and adding a new segment of pipe will divert overflow into the Hamilton Avenue system. Completing this project along with the Hamilton System Upgrades project (SD-25000) will minimize flooding that would otherwise reach lower-lying areas in Crescent Park where flooding occurred during major storms in FY 2023.

## Supplemental Information

This project is funded by the Storm Water Management Fee approved via a ballot measure by Palo Alto residents in April 2017. The need for this project was identified in Fiscal Year 2015 and ranked as high-priority on the Storm Drain Master Plan dated June 2015. The funding amount shown is based on the engineer's estimate prepared for the Storm Drain Master Plan, which references Saylor Publication's 2014 Current Construction Costs, and includes a 3% annual increase for escalation for construction costs.

# STORMWATER MANAGEMENT FUND

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Stormwater Management Fund</b>	0	0	0	0	126,762	2,838,306	0	0	2,965,068	0	2,965,068
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$126,762</b>	<b>\$2,838,306</b>	<b>\$0</b>	<b>\$0</b>	<b>\$2,965,068</b>	<b>\$0</b>	<b>\$2,965,068</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Construction</b>	0	0	0	0	0	2,838,306	0	0	2,838,306	0	2,838,306
<b>Design</b>	0	0	0	0	126,762	0	0	0	126,762	0	126,762
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$126,762</b>	<b>\$2,838,306</b>	<b>\$0</b>	<b>\$0</b>	<b>\$2,965,068</b>	<b>\$0</b>	<b>\$2,965,068</b>

### Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

#### Relationship to Comprehensive Plan Primary Connection

Element: Natural Environment  
Section: Water Resources  
Goal: N-4  
Policy: N-4.14  
Program: N4.14.2

#### Potential Board/Commission Review:

Planning and Transportation  
Commission  
Storm Drain Oversight Committee

#### Environmental Impact Analysis:

This project is expected to have a possible exemption from CEQA under Section 15302

## STORMWATER MANAGEMENT FUND



**Fund:** Stormwater Management Fund  
**Category:** Capacity Improvements  
**Project Location:** Hamilton Avenue from Center Drive to Rhodes Drive  
**Managing Department:** Public Works  
**Initial Project Start:** Fall 2024  
**Initial Project Completion:** Summer 2027  
**Revised Project Start:** N/A  
**Revised Project Completion:** N/A  
**Project Number:** SD-25000

Intersection of Alester and Channing Flooding, December 2022

# Hamilton Avenue System Upgrades

## Description

This project provides funding to remove and replace approximately 3,700 linear feet of the existing storm drain pipes of various sizes (12, 15, 18 and 21 inches) with new 48-inch high-density polyethylene storm drain pipes from Rhodes Drive to Center Drive to increase the storm drain capacity. Due to the pipe size changes, this project also requires replacing concrete inlets and manholes, along with storm drain laterals between the main line and the inlets.

## Justification

The existing pipes on Hamilton Avenue between Center Drive and Rhodes Drive lack the capacity required to convey runoff from a 10-year storm event. Upsizing the pipes will achieve the level of service established by the City and benefit the Crescent Park and Duveneck neighborhoods.

## Supplemental Information

This project is funded by the Storm Water Management Fee approved via a ballot measure by Palo Alto residents in April 2017. The need for this project was identified in Fiscal Year 2015, identified as Project Number 9 and ranked as high-priority on the Storm Drain Master Plan dated June 2015. Once this project is underway, other upstream improvements along Center Drive can be scheduled. The funding amount shown is based on the engineer's estimate prepared for the Storm Drain Master Plan, which references Saylor Publication's 2014 Current Construction Costs, and includes a 3% annual increase for escalation for construction costs.

## Significant Changes

**2025-2029 CIP:** The urgency to upsize the existing system was recognized following major storms in FY 2023. This project will be designed in-house and the timeline has advanced from FY 2028 to FY 2025, ahead of the Louis Road System Upgrades project (SD-24000).



# STORMWATER MANAGEMENT FUND

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Stormwater Management Fund</b>	0	0	0	89,973	6,062,566	0	0	0	6,152,539	0	6,152,539
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$89,973</b>	<b>\$6,062,566</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$6,152,539</b>	<b>\$0</b>	<b>\$6,152,539</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Construction</b>	0	0	0	0	6,062,566	0	0	0	6,062,566	0	6,062,566
<b>Design</b>	0	0	0	89,973	0	0	0	0	89,973	0	89,973
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$89,973</b>	<b>\$6,062,566</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$6,152,539</b>	<b>\$0</b>	<b>\$6,152,539</b>

### Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

#### Relationship to Comprehensive Plan Primary Connection

Element: Natural Environment  
Section: Water Resources  
Goal: N-4  
Policy: N-4.14  
Program: N4.14.2

#### Potential Board/Commission Review:

Planning and Transportation  
Commission  
Storm Drain Oversight Committee

#### Environmental Impact Analysis:

This project is expected to have a possible exemption from CEQA under Section 15302.

## STORMWATER MANAGEMENT FUND



**Fund:** Stormwater Management Fund  
**Category:** Capacity Improvements  
**Project Location:** Louis Road from Sycamore Drive to Matadero Creek  
**Managing Department:** Public Works  
**Initial Project Start:** Fall 2023  
**Initial Project Completion:** Winter 2024  
**Revised Project Start:** Fall 2027  
**Revised Project Completion:** Summer 2028  
**Project Number:** SD-24000

Intersection of Louis Road and Clara Drive

# Louis Road System Upgrades

## Description

This project provides funding to install 1,100 linear feet of new high-density polyethylene storm drain pipe, concrete inlets and manholes northwest of Sycamore Drive to a new outfall with a flap-gate at Matadero Creek.

## Justification

Installing new storm drain improvements will divert flows that currently drain into Colorado Avenue directly into Matadero Creek. In addition, the proposed 72-inch pipe will provide storage during the storm peak. This is recommended to alleviate flooding in the pipes northwest of Sycamore Drive and achieve a 10-year level of service.

## Supplemental Information

This project is funded by the Storm Water Management Fee approved via a ballot measure by Palo Alto residents in April 2017. The need for this project was identified in Fiscal Year 2015 and this project ranked as high-priority on the Storm Drain Master Plan dated June 2015. This is the eleventh project on the Storm Drain Blue Ribbon Committee Recommended list that was described to voters. Once this project is complete, other upstream improvements along Louis Road can be scheduled. The funding amount shown is based on the engineer's estimate prepared for the Storm Drain Master Plan, which references Saylor Publication's 2014 Current Construction Costs, and includes a 3% annual increase for escalation.

## Significant Changes

**2025-2029 CIP:** Construction delayed from FY 2027 and FY 2028 to FY 2029 due to prioritization of other projects in an area that flooded during FY 2023 storms.

**2024-2028 CIP:** Construction delayed due to staffing constraints and moved to FY 2027 and FY 2028.

# STORMWATER MANAGEMENT FUND

**2023-2027 CIP:** Program funding increased by \$2.0 million to a total of \$3.8 million to align with planned construction schedule, with costs split between FY 2026 and FY 2027 due to delays of higher priority projects.

**2022-2026 CIP:** Construction delayed due to staffing constraints and moved to FY 2025 and FY 2026.

**2021-2025 CIP:** Construction delayed due to staffing constraints and moved to FY 2025 and FY 2026. Design funding increased to add scope for surveying and potholing. Construction increased using 3% escalation.

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Stormwater Management Fund	0	0	0	0	0	0	0	3,495,507	3,495,507	0	3,495,507
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$3,495,507</b>	<b>\$3,495,507</b>	<b>\$0</b>	<b>\$3,495,507</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Construction	0	0	0	0	0	0	0	3,495,507	3,495,507	0	3,495,507
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$3,495,507</b>	<b>\$3,495,507</b>	<b>\$0</b>	<b>\$3,495,507</b>

## Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

<p><b>Relationship to Comprehensive Plan</b>  <b>Primary Connection</b>          Element: Natural Environment          Section: Water Resources          Goal: N-4          Policy: N-4.14</p>	<p><b>Potential Board/Commission Review:</b>          Planning and Transportation Commission          Storm Drain Oversight Committee</p>
<p><b>Environmental Impact Analysis:</b>          This project is expected to have a possible exemption from CEQA under Section 15302.</p>	

## STORMWATER MANAGEMENT FUND



**Fund:** Stormwater Management Fund  
**Category:** Capacity Improvements  
**Project Location:** West Bayshore Road at Adobe and Barron Creek junction  
**Managing Department:** Public Works  
**Initial Project Start:** Summer 2019  
**Initial Project Completion:** Winter 2021  
**Revised Project Start:** Summer 2024  
**Revised Project Completion:** Fall 2025  
**Project Number:** SD-20000

Location of New West Bayshore Pump Station

# West Bayshore Road Pump Station

## Description

This project provides funding for the design and construction of a new small pump station with 15 cubic feet per second capacity.

## Justification

The invert elevations of the existing storm drain lines are lower than the outfall. As such, this area is subject to flooding problems. Adding a pump in advance of the outfall would eliminate the routine flooding along West Bayshore Road. The pump station design was completed in FY 2023, and construction is scheduled to start in FY 2025 and be completed in FY 2026.

## Supplemental Information

This project is funded by the Storm Water Management Fee approved via a ballot measure by Palo Alto voters in April 2017. On the ballot, this project is referred to as 4. West Bayshore Road Pump Station to Adobe Creek. The need for this project was identified in FY 2015 and ranked as a high priority on the Storm Drain Master Plan dated June 2015. The funding amount shown here is based on the engineer's cost estimate prepared for the Storm Drain Master Plan, which references Saylor Publication's 2014 Current Construction Costs and includes a 3% annual increase for escalation. Design was paused while the private property easements were secured. The easement agreement was executed in early 2023 and the design is anticipated to be completed in Summer 2023.

## Significant Changes

**2024-2028 CIP:** The project timeline has been updated to start in Summer 2024 and estimated to be completed in Fall 2025.

# STORMWATER MANAGEMENT FUND

**2024-2028 CIP:** The project timeline has been updated to start in Winter 2024 and estimated to be completed in Summer of 2025. Funding increased by \$0.3 million to a total of \$3.0 million due to escalation.

**2023-2027 CIP:** The total project funding increased by approximately \$1.0 million to a total of \$2.7 million and the timeline has been updated to reflect additional time needed to complete design and secure easements. Due to limited funds collected annually, the construction costs are shown split between two fiscal years FY 2023 and FY 2024.

**2021-2025 CIP:** This project will be designed concurrently with Corporation Way System Upgrades and Pump Station (SD-21000). However, due to limited funds these projects cannot be constructed in the same year. Since SD-21000 is ranked as the highest priority on the Storm Drain Master Plan, and due to limited funds, construction of SD-20000 is now scheduled for FY 2023.

**2020-2024 CIP:** Design and construction expenses were adjusted by 3% to account for escalation.

**2019-2023 CIP:** Previously incorporating two separate projects, the scope of this project was separated in alignment with the 13 projects approved in April 2017 as part of the Storm Water Management Fee ballot measure. SD-20000 was renamed West Bayshore Road Pump Station from the previous title Storm Drain Pump Stations to Adobe Creek in the 2018-2022 CIP.

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Stormwater Management Fund	254,749	1,416,104	1,416,103	989,713	220,457	0	0	0	1,210,170	0	2,881,022
<b>Total</b>	<b>\$254,749</b>	<b>\$1,416,104</b>	<b>\$1,416,103</b>	<b>\$989,713</b>	<b>\$220,457</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,210,170</b>	<b>\$0</b>	<b>\$2,881,022</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Construction	837	1,142,081	1,142,080	989,713	220,457	0	0	0	1,210,170	0	2,353,087
Design	253,907	274,023	274,023	0	0	0	0	0	0	0	527,930
<b>Total</b>	<b>\$254,744</b>	<b>\$1,416,104</b>	<b>\$1,416,103</b>	<b>\$989,713</b>	<b>\$220,457</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,210,170</b>	<b>\$0</b>	<b>\$2,881,017</b>

## Operating Impact

This project is anticipated to impact operating expenses in the future with costs for electricity to serve the pump station; future routine inspections; and maintenance of the mechanical, electrical, and fiber operating systems. As these costs are quantified, and if the Department determines they cannot be absorbed within the available maintenance schedule and annual operating budget, adjustments will be brought forward in future budgets, as necessary.

# STORMWATER MANAGEMENT FUND

**Relationship to Comprehensive Plan  
Primary Connection**

Element: Natural Environment  
Section: Water Resources  
Goal: N-4  
Policy: N-4.14

**Potential Board/Commission Review:**

Planning and Transportation  
Commission  
Storm Drain Oversight Committee

**Environmental Impact Analysis:**

This project is expected to have a possible exemption from CEQA under Section 15302.



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## STORMWATER MANAGEMENT FUND



**Fund:** Stormwater Management Fund  
**Category:** Capacity Improvements  
**Project Location:** West Bayshore Road from Adobe Creek to Loma Verde Avenue  
**Managing Department:** Public Works  
**Initial Project Start:** Spring 2021  
**Initial Project Completion:** Summer 2024  
**Revised Project Start:** Summer 2024  
**Revised Project Completion:** Fall 2025  
**Project Number:** SD-23000

West Bayshore Road, North of Adobe and Barron Creek confluence

# West Bayshore Road Trunk Line Improvements

## Description

This project provides funding to upgrade 1,400 linear feet of storm drain pipe with 36-inch High-Density Polyethylene.

## Justification

Upsizing the existing 15-inch pipes will eliminate ponding and increase the capacity required to convey runoff from a 10-year storm event along West Bayshore Road.

## Supplemental Information

This project is funded by the Storm Water Management Fee approved via ballot measure by Palo Alto voters in April 2017. The need for this project was identified in Fiscal Year 2015 and ranked as a high priority in the Storm Drain Master Plan dated June 2015. This is the third project on the Storm Drain Blue Ribbon Committee Recommended list that was described to voters. The funding amount shown is based on the engineer's estimate prepared for the Storm Drain Master Plan, which references Saylor Publication's 2014 Current Construction Costs, and includes a 3% annual increase for escalation.

## Significant Changes

**2025-2029 CIP:** The project timeline has been updated to start earlier in Summer 2024 and estimated to be completed in Summer 2025.

**2024-2028 CIP:** The project timeline has been updated to start in Winter 2024 and estimated to be completed in Summer 2026.



# STORMWATER MANAGEMENT FUND

**2021-2025 CIP:** This project is part of the same system as SD-20000 and SD-21000, so a consultant will analyze and design the entire system up to and including the associated pump station. Design is scheduled to occur in FY 2021, but construction of SD-23000 will be delayed to FY 2023.

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Stormwater Management Fund</b>	5,548	990,123	990,122	1,428,336	0	0	0	0	1,428,336	0	2,424,006
<b>Total</b>	<b>\$5,548</b>	<b>\$990,123</b>	<b>\$990,122</b>	<b>\$1,428,336</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,428,336</b>	<b>\$0</b>	<b>\$2,424,006</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Construction</b>	0	946,324	946,323	1,428,336	0	0	0	0	1,428,336	0	2,374,659
<b>Design</b>	5,548	43,799	43,799	0	0	0	0	0	0	0	49,347
<b>Total</b>	<b>\$5,548</b>	<b>\$990,123</b>	<b>\$990,122</b>	<b>\$1,428,336</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,428,336</b>	<b>\$0</b>	<b>\$2,424,006</b>

## Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

### Relationship to Comprehensive Plan

#### Primary Connection

Element: Natural Environment  
 Section: Water Resources  
 Goal: N-4  
 Policy: N-4.14  
 Program: N4.14.2

### Potential Board/Commission Review:

Planning and Transportation  
 Commission  
 Storm Drain Oversight Committee

### Environmental Impact Analysis:

This project is expected to have a possible exemption from CEQA under Section 15302.



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## System Improvements

## STORMWATER MANAGEMENT FUND



**Fund:** Stormwater Management Fund

**Category:** System Improvements

**Project Location:** Various

**Managing Department:** Public Works

**Initial Project Start:** Recurring

**Initial Project Completion:** Recurring

**Revised Project Start:** N/A

**Revised Project Completion:** N/A

**Project Number:** SD-22001

**Bioretention measure at Rinconada Library that treats on-site stormwater runoff, 2014**

## Green Stormwater Infrastructure

### Description

This project provides funding for Green Stormwater Infrastructure (GSI) projects and the integration of GSI measures to be included in the design and implementation of planned CIP projects supported by other funds and, in the future, maintenance of the City's GSI assets. GSI mimics the natural environment to slow, spread, sink, and filter storm runoff through native or engineered soils rather than discharging it directly into storm drain inlets. Types of GSI include bioretention areas, bioswales, tree filters, green roofs, pervious pavement, and rainwater harvesting (rain barrels and cisterns) to manage stormwater runoff.

### Justification

The City is required to comply with the Municipal Regional Stormwater National Pollutant Discharge Elimination System (NPDES) Permit, also known as the Municipal Regional Permit (MRP), which applies to municipalities and flood control agencies that discharge stormwater to the San Francisco Bay (Bay). Under the MRP and previous permits, new development and redevelopment projects on private and public property that exceed certain size thresholds have been required to mitigate stormwater quality impacts by incorporating site design, pollutant source control, and GSI measures. One of the requirements of the current MRP is to identify opportunities to proactively integrate GSI measures into streets, roads, parking lots, roofs, and other elements beyond the current threshold requirements.

Implementing GSI projects and incorporating GSI measures into the design of planned project sites throughout the City will reduce street flooding and capture pollution before it reaches the creeks or Bay by mimicking the natural environment to slow, spread, and sink storm runoff.

# STORMWATER MANAGEMENT FUND

## Supplemental Information

Fiscal Year 2025 planned projects include installation of bioretention along City streets and integration of GSI measures in existing City parks to reduce stormwater runoff and associated pollutants in collaboration with the City of Santa Clara with support of matching grant funding from the Environmental Protection Agency (EPA). Subsequent years' work plans and funding will be defined and brought forward for approval through the annual budget development process.

## Significant Changes

**2024-2028 CIP:** Funding from the federal government added in FY 2023 for the implementation of a to-be-determined Environmental Protection Agency (EPA) coordinated project. The funding agreement with the City of Santa Clara was approved by the Council (October 17, 2022 Report #14463).

**2023-2027 CIP:** Due to staffing shortages, the implementation of GSI measures has been delayed to Summer 2022. Staff will evaluate the feasibility of integrating GSI into planned projects in subsequent years during FY 2023.

**2022-2026 CIP:** Project established during FY 2022.

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Revenue from the Federal Government	N/A	1,216,351	1,216,351	0	0	0	0	0	0	0	N/A
Stormwater Management Fund	N/A	919,258	(736,279)	1,861,940	0	0	0	0	1,861,940	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$2,135,609</b>	<b>\$480,072</b>	<b>\$1,861,940</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,861,940</b>	<b>\$0</b>	<b>N/A</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Construction	N/A	2,122,136	466,598	1,861,940	0	0	0	0	1,861,940	0	N/A
Design	N/A	13,473	13,473	0	0	0	0	0	0	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$2,135,609</b>	<b>\$480,071</b>	<b>\$1,861,940</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,861,940</b>	<b>\$0</b>	<b>N/A</b>

## Operating Impact

This project is anticipated to impact operating expenses in the future, such as maintenance costs. As these costs are quantified, and if the Department determines they cannot be absorbed within the available maintenance schedule and annual operating budget, adjustments will be brought forward in future budgets cycles.

# STORMWATER MANAGEMENT FUND

<b>Relationship to Comprehensive Plan Primary Connection</b>	<b>Relationship to Comprehensive Plan Secondary Connection</b>	<b>Potential Board/Commission Review:</b>
Element: Natural Environment Section: Water Resources Goal: N-4 Policy: N-4.10 Program: N4.10.1	Element: Natural Environment Section: Water Resources Goal: N-4 Policy: N-4.14 Program: N4.14.2	Parks and Recreation Commission Planning and Transportation Commission Storm Drain Oversight Committee
<b>Environmental Impact Analysis:</b> This project is expected to have a possible exemption from CEQA under Section 15302.		

# System Rehabilitation

## STORMWATER MANAGEMENT FUND



**Fund:** Stormwater Management Fund

**Category:** System Rehabilitation

**Project Location:** Various

**Managing Department:** Public Works

**Initial Project Start:** Recurring

**Initial Project Completion:** Recurring

**Revised Project Start:** N/A

**Revised Project Completion:** N/A

**Project Number:** SD-06101

### Storm Drain Repair & Rehabilitation

# Storm Drainage System Replacement And Rehabilitation

## Description

This project provides funding for annual replacement and rehabilitation projects, identified by a previous condition assessment, to help maintain the integrity of the storm drain system, including the replacement or rehabilitation of deteriorated storm drain pipes, manholes, and storm drain inlets.

## Justification

The project implements the recommendations established by the 1993 Storm Drain Condition Assessment Report and later reassessed as part of the 2015 Storm Drain Master Plan. The specific pipes and drainage structures selected for replacement and/or rehabilitation were determined based on their condition score and recommendations by field maintenance staff. The pipelines and structures need to be replaced since they are approaching the end of their intended useful life.

## Supplemental Information

The proposed improvements are feasible due to the passing of the Storm Water Management Fee ballot measure. Pipe and structure replacements include recommendations by field maintenance staff who inspect structures during routine inlet and pipe cleaning, identifying broken segments or structures. Lastly, if an existing storm drain line is located near or within another public improvement project, replacement may be warranted to extend useful life and/or avoid limited future access.

**Fiscal Year 2025:** Ongoing system maintenance and purchase CCTV equipment to inspect and video the storm drain system.

**Fiscal Year 2026:** Ongoing system maintenance.

**Fiscal Year 2027:** Replace broken or cracked lines per plans prepared in-house.



# STORMWATER MANAGEMENT FUND

**Fiscal Year 2028:** Hire a consultant to evaluate the need for a catwalk along Matadero Creek Pump Station trash rack to facilitate clean-up and design catwalk if recommended. If catwalk determined necessary, install catwalk structure within Matadero Creek Pump Station wetwell.

**Fiscal Year 2029:** Ongoing system maintenance as identified on the inspection and monitoring list.

## Significant Changes

**2025-2029 CIP:** Increase funding in FY 2025 by \$0.2 million to replace CCTV equipment used to inspect and video the storm drain system. Hiring a consultant to evaluate the need for a catwalk at the Matadero Creek Pump station is temporarily on hold to prioritize improvements that reduce flooding in areas affected during New Year's Eve 2022 storm event. Funding for this work moved from FY 2026 to FY 2028.

**2024-2028 CIP:** Increased funding in FY 2024 by \$0.4 million to extend power and fiber connections for new cameras at Pope/Chaucer and Newell Road Bridges.

**2023-2027 CIP:** Work plans have been reevaluated and funding is anticipated to be available and programmed into FY 2025 through FY 2027 for ongoing maintenance without an impact to ballot measure projects.

**2022-2026 CIP:** No funding programmed in FY 2026 in order to retain funding for the 13 projects approved in April 2017 as part of the Storm Water Management Fee ballot measure.

**2021-2025 CIP:** Reappropriated funding will be used to replace or rehabilitate broken pipes and catch basins identified in the last inspection. Additional funding will return to the storm drain fund to help support other Stormwater Management capital improvement program project increases.

**2019-2023 CIP:** Replace pipes within Page Mill ranked high priority and pipes within public utility easements associated with public infrastructure.

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Stormwater Management Fund	N/A	1,938,097	1,338,096	1,462,075	661,371	645,405	1,575,036	718,082	5,061,969	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$1,938,097</b>	<b>\$1,338,096</b>	<b>\$1,462,075</b>	<b>\$661,371</b>	<b>\$645,405</b>	<b>\$1,575,036</b>	<b>\$718,082</b>	<b>\$5,061,969</b>	<b>\$0</b>	<b>N/A</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Construction	N/A	1,938,096	1,338,095	1,462,075	661,371	645,405	1,575,036	718,082	5,061,969	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$1,938,096</b>	<b>\$1,338,095</b>	<b>\$1,462,075</b>	<b>\$661,371</b>	<b>\$645,405</b>	<b>\$1,575,036</b>	<b>\$718,082</b>	<b>\$5,061,969</b>	<b>\$0</b>	<b>N/A</b>

## Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

# STORMWATER MANAGEMENT FUND

**Relationship to Comprehensive Plan  
Primary Connection**

Element: Natural Environment  
Section: Water Resources  
Goal: N-4  
Policy: N-4.14

**Potential Board/Commission Review:**

Planning and Transportation  
Commission  
Storm Drain Oversight Committee

**Environmental Impact Analysis:**

This project is expected to have a possible exemption from CEQA under Section 15302.

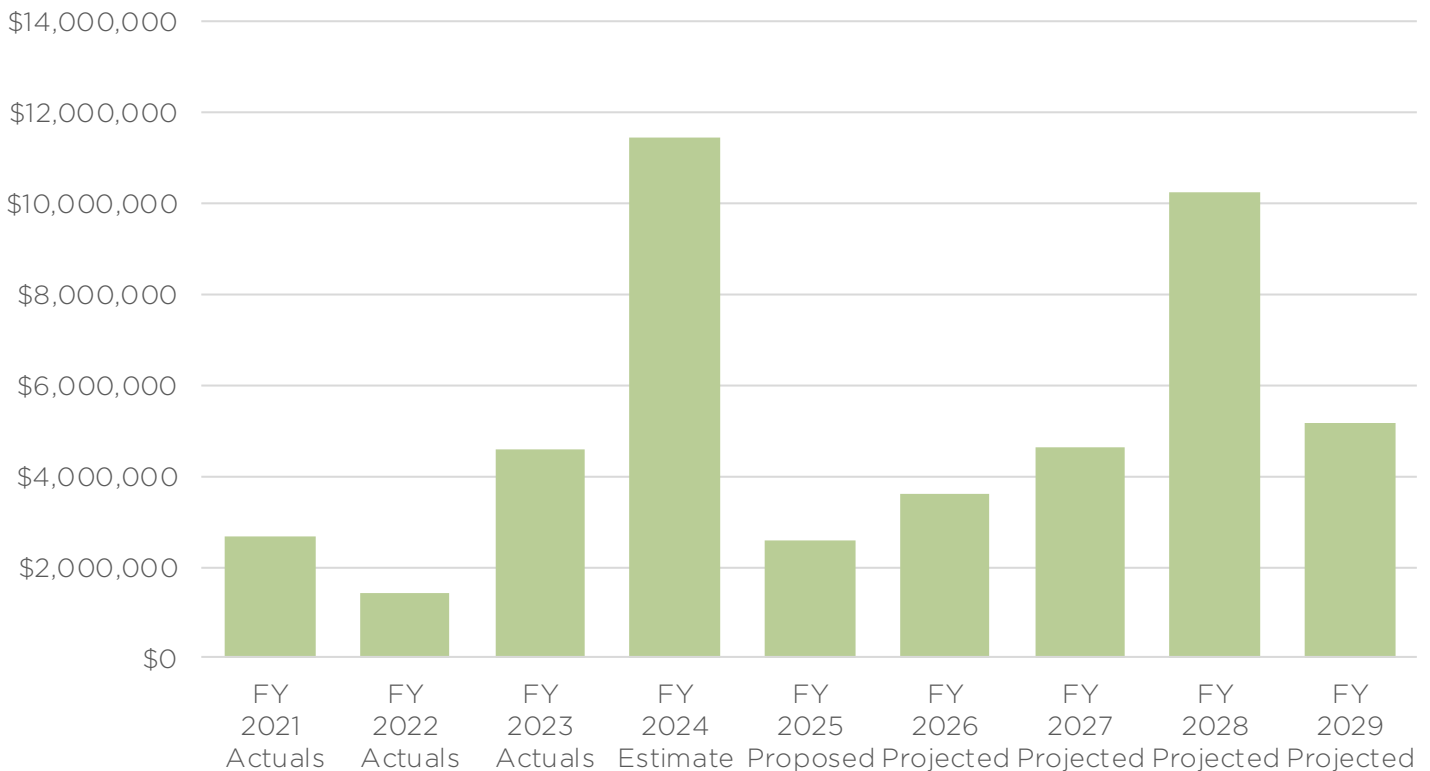
# WASTEWATER COLLECTION FUND

# WASTEWATER COLLECTION FUND

## Overview

The City of Palo Alto offers a full array of utility services to its citizens and businesses. The municipal Wastewater Collection System began operation in 1898 and continues to provide safe, reliable, and cost-effective services to residents and customers of Palo Alto. For the 2025-2029 Capital Improvement Program (CIP), approximately \$26.2 million is projected, with \$2.5 million allocated in Fiscal Year 2024. Overall, a total of seven projects are programmed for the 5-year CIP.

## Wastewater Collection Fund Expenditures



Major projects funded in the 2025-2029 CIP include Wastewater Collection System Rehabilitation/Augmentation projects (cumulative total of \$18.1 million), Sewer Lateral/Manhole Rehabilitation and Replacement (\$4.6 million), and Sewer System, Customer Connections (\$2.3 million). The budget for the Wastewater Collection Fund CIP is categorized into two types of projects: Customer Connections and System Improvements. In order to balance the Wastewater Collection Fund reserves and keep rate increases low, the wastewater main replacement (Collection System Rehabilitation/Augmentation) projects have been reduced from annually to biennially to keep expenditures in line with expected revenue.

## Infrastructure Inventory

CLASSIFICATION	QUANTITY
Total miles of sanitary sewer lines	206.64
Total number of sanitary laterals	17,830

Customer Connections

As customers continually change their wastewater needs due to equipment additions, new construction, building expansions, building remodels, teardowns and rebuilds, and new building occupancy types, the Wastewater Collection System must evolve to meet these needs. The Sewer System Customer Connections project is the only project within this category and includes work required to meet the needs of customers who have applied for new sewer laterals or are required to upgrade the laterals. The Wastewater Collection Fund pays for a portion of this project while remaining costs are supported by reimbursements from customers for project work performed by the City.

## Recent Accomplishments

- In Fiscal Year 2023, the Utilities Wastewater Division completed approximately 43 customer service projects at a cost of \$0.3 million.

## 2025-2029 Capital Improvement Program

### Recurring Projects

There is one recurring project in Customer Connections in the 2025-2029 CIP: Sewer System, Customer Connections (Fiscal Year 2024: \$0.5 million; 5-Year CIP: \$2.3 million). This project funds changes to customer connections and costs are partially offset by reimbursements from customers requesting the service.

## System Improvement

To ensure reliable wastewater services for the City of Palo Alto residents and customers, infrastructure must be replaced upon reaching the end of its useful life. The infrastructure replacement program includes projects that will rehabilitate or replace deteriorated pipelines. In the next five years, it is estimated that approximately 30,200 linear feet of wastewater mains will be replaced. The infrastructure replacement program also includes a project to retrofit the Foothills Lift Station.

### Recent Accomplishments

- Completed design of Sanitary Sewer Replacement Project 31 (SSR 31) in Fiscal Year 2023 and started construction on July 2023. This project included the replacement and rehabilitation of 10,924 linear feet of sanitary sewer main, sewer laterals, and manholes on El Camino Real between Page Mill Road and Cesano Court, as well as Page Mill Road between Ash Street and Ramos Way. The existing clay pipe mains will be replaced with High Density Polyethylene pipe. The anticipated project completion is in Summer 2024.

## 2025-2029 Capital Improvement Program

### Recurring Projects

A total of \$5.9 million is programmed for System Improvement recurring projects in the 2025-2029 CIP, with \$1.1 million allocated in Fiscal Year 2025. Recurring projects in this category include the following:

- Wastewater System Improvements (Fiscal Year 2025: \$0.2 million; 5-Year CIP: \$1. million)
- Wastewater General Equipment and Tools (Fiscal Year: 2025: \$0.05 million; 5-Year CIP: \$0.3 million)
- Sewer Lateral/Manhole Rehabilitation and Replacement (Fiscal Year 2025: \$0.9 million; 5-Year CIP: \$4.6 million)

### Non-Recurring Projects

The majority of funding within this category is allocated towards Wastewater Collection System Rehabilitation/Augmentation Projects (cumulative total of \$14.6 million). The program is prioritized to replace pipes with structural damage to minimize sewer overflows and to replace pipes with condition defects to reduce inflow of

# WASTEWATER COLLECTION FUND

rainfall and groundwater into the collection system. The Utilities Department coordinates with the Public Works Department's street maintenance projects to minimize impact to the streets that have been recently paved when replacing sewer mains.

Linear footage and locations are subject to change, please refer to the City of Palo Alto Utilities webpage to confirm project details: <https://www.cityofpaloalto.org/Departments/Utilities/Utilities-Services-Safety/Utilities-Projects>.

## Wastewater Collection Fund

Project Number	Project Title	FY 2024 Budget	FY 2024 Estimate	FY 2025 Proposed	FY 2026	FY 2027	FY 2028	FY 2029	5-Year Total
<b>SOURCE OF FUNDS</b>									
<b>Other</b>									
<b>WC-80020</b>	Sewer System, Customer Connections	450,000	450,000	250,000	250,000	250,000	250,000	250,000	1,250,000
<b>Other Total</b>		<b>\$450,000</b>	<b>\$450,000</b>	<b>\$250,000</b>	<b>\$250,000</b>	<b>\$250,000</b>	<b>\$250,000</b>	<b>\$250,000</b>	<b>\$1,250,000</b>
<b>Total Sources</b>		<b>\$450,000</b>	<b>\$450,000</b>	<b>\$250,000</b>	<b>\$250,000</b>	<b>\$250,000</b>	<b>\$250,000</b>	<b>\$250,000</b>	<b>\$1,250,000</b>
<b>USE OF FUNDS</b>									
<b>Customer Connections</b>									
<b>WC-80020</b>	Sewer System, Customer Connections	466,142	466,142	450,000	450,000	450,000	450,000	450,000	2,250,000
<b>Customer Connections Total</b>		<b>\$466,142</b>	<b>\$466,142</b>	<b>\$450,000</b>	<b>\$450,000</b>	<b>\$450,000</b>	<b>\$450,000</b>	<b>\$450,000</b>	<b>\$2,250,000</b>
<b>System Improvements</b>									
<b>WC-99013</b>	Sewer Lateral/Manhole Rehabilitation and Replacement	1,018,829	1,018,829	875,500	900,000	927,000	955,000	975,000	4,632,500
<b>WC-13002</b>	Wastewater General Equipment and Tools	118,480	118,480	50,000	50,000	50,000	50,000	50,000	250,000
<b>WC-15002</b>	Wastewater System Improvements	804,002	804,002	200,000	200,000	200,000	200,000	200,000	1,000,000
<b>System Improvements Total</b>		<b>\$1,941,311</b>	<b>\$1,941,311</b>	<b>\$1,125,500</b>	<b>\$1,150,000</b>	<b>\$1,177,000</b>	<b>\$1,205,000</b>	<b>\$1,225,000</b>	<b>\$5,882,500</b>
<b>System Rehabilitation</b>									
<b>WC-17001</b>	Wastewater Collection System Rehabilitation/Augmentation Project 30	622,363	622,363	0	0	0	0	0	0
<b>WC-19001</b>	Wastewater Collection System Rehabilitation/Augmentation Project 31	8,436,225	8,436,225	0	0	0	0	0	0
<b>WC-20000</b>	Wastewater Collection System Rehabilitation/Augmentation Project 32	0	0	1,000,000	2,000,000	0	0	0	3,000,000
<b>WC-21000</b>	Wastewater Collection System Rehabilitation/Augmentation Project 33	0	0	0	0	3,000,000	8,600,000	0	11,600,000
<b>WC-26000</b>	Wastewater Collection System Rehabilitation/Augmentation Project 34	0	0	0	0	0	0	3,512,716	3,512,716
<b>System Rehabilitation Total</b>		<b>\$9,058,588</b>	<b>\$9,058,588</b>	<b>\$1,000,000</b>	<b>\$2,000,000</b>	<b>\$3,000,000</b>	<b>\$8,600,000</b>	<b>\$3,512,716</b>	<b>\$18,112,716</b>
<b>Total Uses</b>		<b>\$11,466,041</b>	<b>\$11,466,041</b>	<b>\$2,575,500</b>	<b>\$3,600,000</b>	<b>\$4,627,000</b>	<b>\$10,255,000</b>	<b>\$5,187,716</b>	<b>\$26,245,216</b>

# Customer Connections

## WASTEWATER COLLECTION FUND



**Fund:** Wastewater Collection Fund  
**Category:** Customer Connections  
**Project Location:** Various locations  
**Managing Department:** Utilities  
**Initial Project Start:** Recurring  
**Initial Project Completion:** Recurring  
**Revised Project Start:** N/A  
**Revised Project Completion:** N/A  
**Project Number:** WC-80020

Sewer System, Customer Connections

# Sewer System, Customer Connections

## Description

This project provides for the installation of sewer lateral connections, additions of existing mains, and extensions of mains for new or existing customers.

## Justification

It is necessary to provide sewer connections to serve new customers and to respond to changes in sewer requirements due to redevelopment. Old existing non-plastic sewer service laterals become cracked and broken by tree root intrusion, ground movement, and third-party excavation damages requiring the laterals to be replaced.

## Supplemental Information

Other funding sources include customer connection and capacity fees for connecting to the Wastewater Collection System. Capacity fees are collected through connection charges to cover the proportionate cost of system improvements required to serve new customers.

## Significant Changes

**2022-2026 CIP:** The annual revenues budgeted for this project has been decreased to align with actual customer connections experienced in prior years for this project.

**2021-2025 CIP:** The annual amount budgeted for this project has been decreased to align with actual costs experienced in prior years for this project.

**2015-2019 CIP:** This project was previously titled Sewer System Extension. As part of the FY 2015 budget, it was retitled to more accurately reflect the work done with this funding.



# WASTEWATER COLLECTION FUND

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Other	N/A	450,000	450,000	250,000	250,000	250,000	250,000	250,000	1,250,000	0	N/A
Wastewater Collection Fund	N/A	16,142	16,142	200,000	200,000	200,000	200,000	200,000	1,000,000	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$466,142</b>	<b>\$466,142</b>	<b>\$450,000</b>	<b>\$450,000</b>	<b>\$450,000</b>	<b>\$450,000</b>	<b>\$450,000</b>	<b>\$2,250,000</b>	<b>\$0</b>	<b>N/A</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Construction	N/A	466,142	466,142	450,000	450,000	450,000	450,000	450,000	2,250,000	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$466,142</b>	<b>\$466,142</b>	<b>\$450,000</b>	<b>\$450,000</b>	<b>\$450,000</b>	<b>\$450,000</b>	<b>\$450,000</b>	<b>\$2,250,000</b>	<b>\$0</b>	<b>N/A</b>

### Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

#### Relationship to Comprehensive Plan Primary Connection

Element: Natural Environment  
Section: Water Resources  
Goal: N-4  
Policy: N-4.16  
Program: N4.16.1

#### Potential Board/Commission Review:

Planning and Transportation  
Commission  
Utilities Advisory Commission

#### Environmental Impact Analysis:

This project is expected to have a possible exemption from CEQA under Section 15302.



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## System Improvements

## WASTEWATER COLLECTION FUND



Sewer manhole base

**Fund:** Wastewater Collection Fund  
**Category:** System Improvements  
**Project Location:** Various locations  
**Managing Department:** Utilities  
**Initial Project Start:** Recurring  
**Initial Project Completion:** Recurring  
**Revised Project Start:** N/A  
**Revised Project Completion:** N/A  
**Project Number:** WC-99013

# Sewer Lateral/Manhole Rehabilitation and Replacement

## Description

This project will replace defective sewer laterals, cleanouts, and manholes; install backwater devices; and purchase equipment to support these activities in order to maintain the Wastewater Collection System. Information collected during routine annual maintenance activities is used to prioritize work. Defective laterals, for example, will be replaced to re-establish existing services, reduce maintenance expenses, and eliminate ground water intrusion. Backwater devices will be installed to reduce backflows of sewage. New manholes will be installed or rehabilitated to improve structural integrity.

## Justification

The work will help reduce both the backflow of sewage onto private property and the City's treatment expenses. This project also cleans and takes videos of sewer collection mains and laterals as necessary.

## Significant Changes

**2022-2026 CIP:** This budget was increased in alignment to anticipated work levels.

**2021-2025 CIP:** This budget was increased to accommodate anticipated construction cost escalation for the multi-year lateral replacement project. The bid result indicated that the contractor's cost is substantially higher than in-house cost, therefore Wastewater Operations decided to perform the work themselves. Project costs will continue to be evaluated throughout FY 2021 and considered as part of the development of the 2022-2026 CIP.

# WASTEWATER COLLECTION FUND

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Wastewater Collection Fund</b>	N/A	1,018,829	1,018,829	875,500	900,000	927,000	955,000	975,000	4,632,500	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$1,018,829</b>	<b>\$1,018,829</b>	<b>\$875,500</b>	<b>\$900,000</b>	<b>\$927,000</b>	<b>\$955,000</b>	<b>\$975,000</b>	<b>\$4,632,500</b>	<b>\$0</b>	<b>N/A</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Construction</b>	N/A	1,018,829	1,018,829	875,500	900,000	927,000	955,000	975,000	4,632,500	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$1,018,829</b>	<b>\$1,018,829</b>	<b>\$875,500</b>	<b>\$900,000</b>	<b>\$927,000</b>	<b>\$955,000</b>	<b>\$975,000</b>	<b>\$4,632,500</b>	<b>\$0</b>	<b>N/A</b>

### Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

#### Relationship to Comprehensive Plan Primary Connection

Element: Natural Environment  
Section: Water Resources  
Goal: N-4  
Policy: N-4.16  
Program: N4.16.1

#### Potential Board/Commission Review:

Planning and Transportation  
Commission  
Utilities Advisory Commission

#### Environmental Impact Analysis:

This project is expected to have a possible exemption from CEQA under Section 15302.

## WASTEWATER COLLECTION FUND



**Fund:** Wastewater Collection Fund  
**Category:** System Rehabilitation  
**Project Location:** Various locations  
**Managing Department:** Utilities  
**Initial Project Start:** Summer 2026  
**Initial Project Completion:** Fall 2027  
**Revised Project Start:** N/A  
**Revised Project Completion:** N/A  
**Project Number:** WC-26000

Construction crew installing wastewater main

# Wastewater Collection Main Replacement Project 34

## Description

The project funds the design and construction of high priority main and lateral replacement work, which reduces inflow and rainfall and groundwater into the collection system. The project will include approximately 8,700 linear feet (which represents approximately 0.8% of the City's Wastewater Collection System) for various streets in the City, including Seal Addition, Ventura, and Fairmeadow neighborhoods. The project will be comprised of laterals identified in video inspection work or through maintenance records as deficient and in need of replacement. Priority will be given to areas identified by Public Works as targeted work zones ensuring coordination between departments.

## Justification

The 2004 Collection System Master Plan (Master Plan Study) update indicated certain facilities are in need of augmentation to handle growth and peak flows. The mains selected for replacement and/or rehabilitation are part of the asset management program recommended by the Master Plan Study.

## Supplemental Information

Linear footage and locations are subject to change, please refer to the City of Palo Alto Utilities webpage to confirm project details.

## Significant Changes

**2025-2029 CIP:** Project established

# WASTEWATER COLLECTION FUND

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Wastewater Collection Fund	0	0	0	0	0	0	0	3,512,716	3,512,716	9,553,878	13,066,594
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$3,512,716</b>	<b>\$3,512,716</b>	<b>\$9,553,878</b>	<b>\$13,066,594</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Construction	0	0	0	0	0	0	0	0	0	9,553,878	9,553,878
Design	0	0	0	0	0	0	0	3,512,716	3,512,716	0	3,512,716
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$3,512,716</b>	<b>\$3,512,716</b>	<b>\$9,553,878</b>	<b>\$13,066,594</b>

### Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

#### Relationship to Comprehensive Plan Primary Connection

Element: Natural Environment  
Section: Water Resources  
Goal: N-4  
Policy: N-4.16  
Program: N4.16.1

#### Potential Board/Commission Review:

Storm Drain Oversight Committee

#### Environmental Impact Analysis:

This project is expected to have a possible exemption from CEQA under Section 15301.

# WASTEWATER COLLECTION FUND



**Fund:** Wastewater Collection Fund  
**Category:** System Improvements  
**Project Location:** Municipal Service Center  
**Managing Department:** Utilities  
**Initial Project Start:** Recurring  
**Initial Project Completion:** Recurring  
**Revised Project Start:** N/A  
**Revised Project Completion:** N/A  
**Project Number:** WC-13002

Equipment used to install fuse High Density Polyethylene (HDPE) pipe

## Wastewater General Equipment and Tools

### Description

This funding allows for the acquisition of new fusion equipment and other associated tools. This equipment is used to fuse together pipe joints in the City's Wastewater Collection System.

### Justification

As the equipment ages, the quality of the fusion joints begin to decline and the operators must spend more time scraping, aligning, and fusing construction joints. In order to maintain high quality standards for the installation of the City's wastewater collection mains, along with the associated service standards and worker safety and productivity measures, equipment and tools require continuous upgrades.

### Significant Changes

**2021-2025 CIP:** Project increased from \$50,000 to \$185,000 for FY 2021. This funding enables the purchase of a new trailer-mounted flusher (pressure washer) and replacement of new closed-circuit television equipment.

**2015-2019 CIP:** Project was retitled from Wastewater Fusion and General Equipment/Tools.

### Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Wastewater Collection Fund	N/A	118,480	118,480	50,000	50,000	50,000	50,000	50,000	250,000	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$118,480</b>	<b>\$118,480</b>	<b>\$50,000</b>	<b>\$50,000</b>	<b>\$50,000</b>	<b>\$50,000</b>	<b>\$50,000</b>	<b>\$250,000</b>	<b>\$0</b>	<b>N/A</b>



# WASTEWATER COLLECTION FUND

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Construction</b>	N/A	118,480	118,480	50,000	50,000	50,000	50,000	50,000	250,000	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$118,480</b>	<b>\$118,480</b>	<b>\$50,000</b>	<b>\$50,000</b>	<b>\$50,000</b>	<b>\$50,000</b>	<b>\$50,000</b>	<b>\$250,000</b>	<b>\$0</b>	<b>N/A</b>

### Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

<p><b>Relationship to Comprehensive Plan</b>  <b>Primary Connection</b></p> <p>Element: Natural Environment          Section: Water Resources          Goal: N-4          Policy: N-4.1          Program: N4.13.2</p> <p><b>Environmental Impact Analysis:</b>          This project is expected to have a possible exemption from CEQA under Section 15301.</p>	<p><b>Potential Board/Commission Review:</b></p> <p>Planning and Transportation          Commission          Utilities Advisory Commission</p>
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## WASTEWATER COLLECTION FUND



**Fund:** Wastewater Collection Fund  
**Category:** System Improvements  
**Project Location:** Various locations  
**Managing Department:** Utilities  
**Initial Project Start:** Recurring  
**Initial Project Completion:** Recurring  
**Revised Project Start:** N/A  
**Revised Project Completion:** N/A  
**Project Number:** WC-15002

Trenching for installation of High Density Polyethylene (HDPE) sewer main by directional drilling method

# Wastewater System Improvements

## Description

This project provides funding as needed to improve the Wastewater Collection System. Typical activities include: increasing system capacity for growth, flow monitoring, hydraulic modeling and system analysis, load simulations, asset management analysis and assessment, system inflow/infiltration analysis, and sanitary sewer overflow monitoring and reduction.

## Justification

Wastewater Collection System reliability and adequate capacity are critical to providing a high level of service to customers. Mainline sewer backups and overflows into homes and businesses are costly and pose a health risk. Reducing losses associated with these backup claims requires a continuous evaluation of system needs and making improvements to maintain a high level of service.

## Significant Changes

**2023-2027 CIP:** One-time funding of \$0.4 million programmed in FY 2023 for a capacity assessment of the wastewater collection system. The last study was completed in 2004 and since then miles of mains have been upgraded so the model from 2004 is becoming outdated, limiting its usefulness for evaluating new development projects. The new study will reflect today's conditions and also include collecting flow monitoring data.

**2022-2026 CIP:** Project budget anticipated to increase annually in FY 2023 through FY 2025 to address small improvements to mains and laterals, which are not included in a main replacement project due to reduced scope in those projects. The reduced scope in main replacements helps keep the fund reserves within guidelines and rate increases low.

# WASTEWATER COLLECTION FUND

**2021-2025 CIP:** This budget is lowered based on past expenditures. In the upcoming years, the proposed budget will be used to improve the system due to unexpected conditions, purchase and implement a new wastewater collection system maintenance software, conduct system assessment, etc.

Currently acquiring a new asset management software platform to replace the current software used to manage Wastewater Operations maintenance activities. All maintenance history, records, and attachments stored in the current database will be exported from cloud-based database and converted or migrated into the new software system. The new wastewater management system will be used by Utilities Wastewater Operations staff to generate work orders, schedule planned or unplanned maintenance work in order to help plan/prioritize pipeline capital improvement replacement.

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Wastewater Collection Fund</b>	N/A	804,002	804,002	200,000	200,000	200,000	200,000	200,000	1,000,000	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$804,002</b>	<b>\$804,002</b>	<b>\$200,000</b>	<b>\$200,000</b>	<b>\$200,000</b>	<b>\$200,000</b>	<b>\$200,000</b>	<b>\$1,000,000</b>	<b>\$0</b>	<b>N/A</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Construction</b>	N/A	799,501	799,501	200,000	200,000	200,000	200,000	200,000	1,000,000	0	N/A
<b>Design</b>	N/A	4,501	4,501	0	0	0	0	0	0	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$804,002</b>	<b>\$804,002</b>	<b>\$200,000</b>	<b>\$200,000</b>	<b>\$200,000</b>	<b>\$200,000</b>	<b>\$200,000</b>	<b>\$1,000,000</b>	<b>\$0</b>	<b>N/A</b>

## Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

<p><b>Relationship to Comprehensive Plan</b>  <b>Primary Connection</b></p> <p>Element: Natural Environment          Section: Water Resources          Goal: N-4          Policy: N-4.16          Program: N4.16.1</p> <p><b>Environmental Impact Analysis:</b>          This project is expected to have a possible exemption from CEQA under Section 15302.</p>	<p><b>Potential Board/Commission Review:</b></p> <p>Planning and Transportation          Commission          Utilities Advisory Commission</p>
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# System Rehabilitation

## WASTEWATER COLLECTION FUND



**Fund:** Wastewater Collection Fund  
**Category:** System Rehabilitation  
**Project Location:** Various locations  
**Managing Department:** Utilities  
**Initial Project Start:** Summer 2020  
**Initial Project Completion:** Winter 2022  
**Revised Project Start:** Summer 2025  
**Revised Project Completion:** Spring 2026  
**Project Number:** WC-20000

**Sewer Main Replacement Project using Pipe Bursting Method**

# Wastewater Collection System Rehabilitation/Augmentation Project 32

## Description

This project funds the design and construction of high priority main and lateral replacement work, which reduces inflow of rainfall and infiltration of groundwater into the collection system. The project replaces approximately 5,200 linear feet (which represents 0.5 percent of the City's Wastewater Collection System) for various streets in the City, including Middlefield Road, Webster Street, Santa Rita Avenue, and N. California Avenue neighborhoods. The project will be comprised of laterals identified in video inspection work or through maintenance records as deficient and in need of replacement. Priority will be given to areas identified by Public Works as targeted work zones ensuring coordination between departments.

## Justification

The 2004 Collection System Master Plan (Master Plan Study) update indicated certain facilities are in need of augmentation to handle growth and peak flows. The mains selected for replacement and/or rehabilitation are part of the asset management program recommended by the Master Plan Study.

## Supplemental Information

Linear footage and locations are subject to change, please refer to the City of Palo Alto Utilities webpage to confirm project details.

## Significant Changes

**2025-2029 CIP:** Number of miles for SSR 32 decreased from 2.0 miles to 0.5 miles and the overall total budget decreased from \$11.6M to \$3.0M due to budget shifting to SSR 31 (WC-19001) to accommodate higher than anticipated construction pricing due to complexities of construction on El Camino Real and unanticipated shortfalls in revenue which impacted the Wastewater Fund financial plan.

# WASTEWATER COLLECTION FUND

**2024-2028 CIP:** The number of replacement miles have increased from 1.0 to 2.0 miles and overall project total increased by \$6.4M to \$11.6M.

**2023-2027 CIP:** The project schedule was adjusted to start in FY 2025, instead of FY 2026, to align with adjustments made to the schedule for WC-19001 and the Wastewater Fund financial plan. In an effort to keep rates low and reserves within guidelines, the overall project budget has been reduced from \$5.5 million to \$5.2 million.

**2022-2026 CIP:** The main replacement scope and schedule has been adjusted to align with the Wastewater Fund financial plan. In an effort to keep rates low and reserves within guidelines, the project scope for Wastewater Collection Replacement Project 32. The overall project budget has been reduced from \$7.2 million to \$5.5 million.

**2020-2024 CIP:** City staff has proposed a new replacement schedule of completing a water, gas and wastewater construction project every other year instead of annually to reduce the amount of construction when prices are high. In the last few years there have been fewer bidders and higher prices on construction projects due to the increased demand for construction services. The overall project budget has increased by \$2.3 million to account for construction cost escalation.

**2019-2023 CIP:** Project budget has increased by \$1.0 million to account for construction cost escalation.

**2018-2022 CIP:** Due to delays in WCSR 24, 25, 26, and 27, the construction for this project is postponed to FY 2023.

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Wastewater Collection Fund	0	0	0	1,000,000	2,000,000	0	0	0	3,000,000	0	3,000,000
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,000,000</b>	<b>\$2,000,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$3,000,000</b>	<b>\$0</b>	<b>\$3,000,000</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Construction	0	0	0	0	2,000,000	0	0	0	2,000,000	0	2,000,000
Design	0	0	0	1,000,000	0	0	0	0	1,000,000	0	1,000,000
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,000,000</b>	<b>\$2,000,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$3,000,000</b>	<b>\$0</b>	<b>\$3,000,000</b>

## Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

# WASTEWATER COLLECTION FUND

**Relationship to Comprehensive Plan  
Primary Connection**

Element: Natural Environment  
Section: Water Resources  
Goal: N-4  
Policy: N-4.16  
Program: N4.16.1

**Potential Board/Commission Review:**

Planning and Transportation  
Commission  
Utilities Advisory Commission

**Environmental Impact Analysis:**

This project is expected to have a possible exemption from CEQA under Section 15302.





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## WASTEWATER COLLECTION FUND



**Fund:** Wastewater Collection Fund  
**Category:** System Rehabilitation  
**Project Location:** Various locations  
**Managing Department:** Utilities  
**Initial Project Start:** Summer 2027  
**Initial Project Completion:** Winter 2028  
**Revised Project Start:** N/A  
**Revised Project Completion:** N/A  
**Project Number:** WC-21000

Rehabilitation equipment

# Wastewater Collection System Rehabilitation/Augmentation Project 33

## Description

This project funds the design and construction of high priority main and lateral replacement work, which reduces inflow of rainfall and groundwater into the collection system. The project will include approximately 26,000 linear feet for various streets within the City, including Crescent Park, Old Palo Alto, Midtown, Palo Verde, Fair Meadow, Barron Park, and Green Acres neighborhoods.. The project will be comprised of laterals identified in video inspection work or through maintenance records as deficient and in need of replacement. Priority will be given to areas identified by Public Works as targeted work zones ensuring coordination between departments.

## Justification

The 2004 Collection System Master Plan Study update indicated certain facilities are in need of enlargement to handle growth and peak flows. The mains selected for replacement and/or rehabilitation are informed by the Master Plan Study; research and analysis of sewer main maintenance records; cleaning and videotaping of sanitary sewer mains; condition assessment; real time flow monitoring of existing sewers; and hydraulic computer modeling.

## Supplemental Information

Linear footage and locations are subject to change, please refer to the City of Palo Alto Utilities webpage to confirm project details.

## Significant Changes

**2024-2028 CIP:** The number of replacement miles have increased from 1.0 to 2.0 miles and overall project total increased by \$6.4M to \$11.6M.

# WASTEWATER COLLECTION FUND

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Wastewater Collection Fund</b>	0	0	0	0	0	3,000,000	8,600,000	0	11,600,000	0	11,600,000
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$3,000,000</b>	<b>\$8,600,000</b>	<b>\$0</b>	<b>\$11,600,000</b>	<b>\$0</b>	<b>\$11,600,000</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Construction</b>	0	0	0	0	0	2,448,420	8,600,000	0	11,048,420	0	11,048,420
<b>Design</b>	0	0	0	0	0	551,580	0	0	551,580	0	551,580
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$3,000,000</b>	<b>\$8,600,000</b>	<b>\$0</b>	<b>\$11,600,000</b>	<b>\$0</b>	<b>\$11,600,000</b>

### Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

#### Relationship to Comprehensive Plan Primary Connection

Element: Natural Environment  
Section: Water Resources  
Goal: N-4  
Policy: N-4.16  
Program: N4.16.1

#### Potential Board/Commission Review:

Planning and Transportation  
Commission  
Utilities Advisory Commission

#### Environmental Impact Analysis:

This project is expected to have a possible exemption from CEQA under Section 15302.



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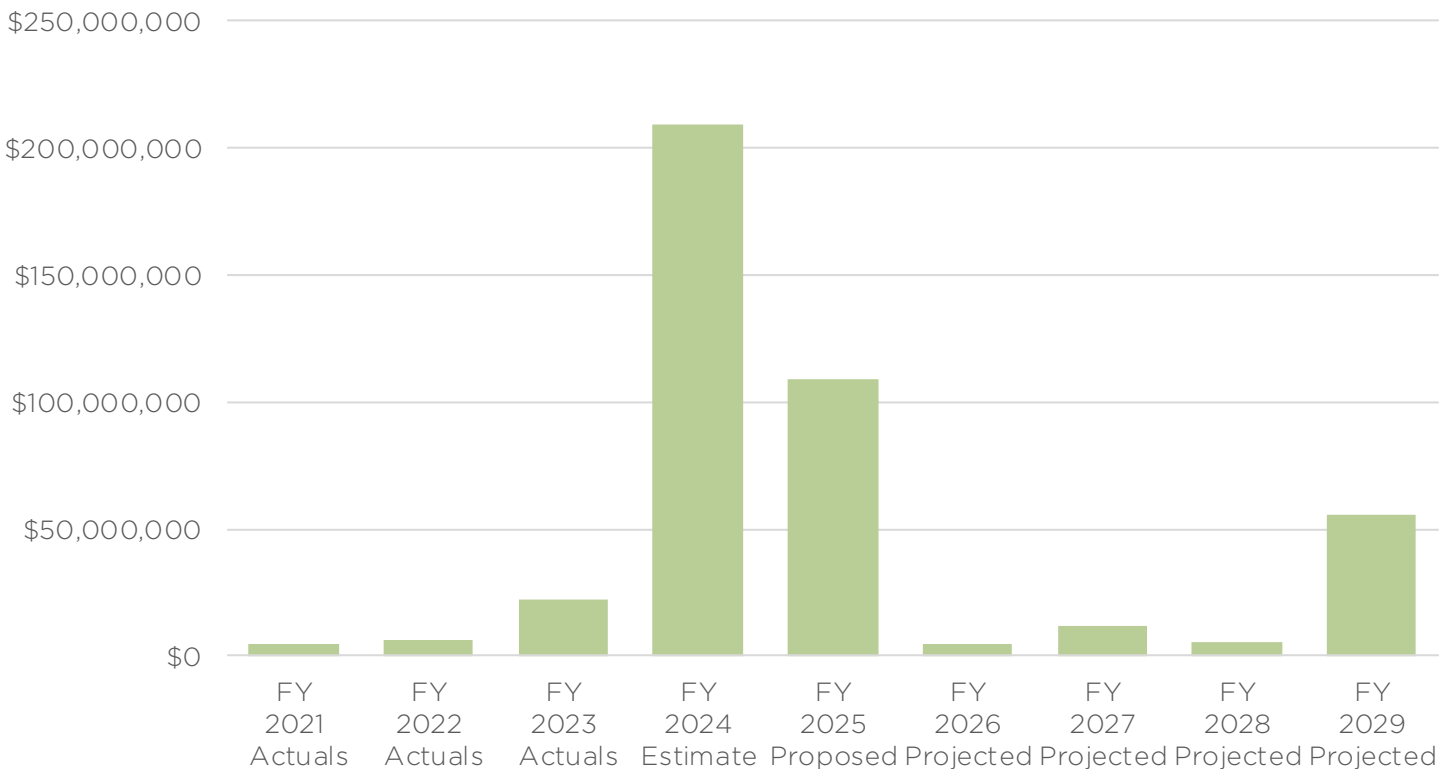
# WASTEWATER TREATMENT FUND

# WASTEWATER TREATMENT FUND

## Overview

Activities related to the replacement, rehabilitation, optimization, and upgrading of the City's wastewater treatment plant infrastructure are accounted for in the Wastewater Treatment Fund. For detailed information on the maintenance and operation of the wastewater treatment plant, please refer to the Wastewater Treatment Fund section of the Operating Budget. As part of the 2025-2029 Capital Improvement Program (CIP), expenditures of approximately \$187.6 million are programmed with \$109.2 million allocated in Fiscal Year 2025. The Wastewater Treatment Fund recovers its costs from the Palo Alto Wastewater Collection Fund, Stanford University, East Palo Alto Sanitary District, Mountain View, Los Altos, and Los Altos Hills (partner agencies) based on each agency's expected share of the capacity. Each agency bills their respective sewer ratepayers for associated sewer and treatment costs as well as the Wastewater Treatment Fund's capital projects. Approximately 250,000 residents are served by the six agencies contributing sewage to the Regional Water Quality Control Plant (RWQCP). Overall, a total of ten projects are programmed in the 2025-2029 CIP with the budget accounted for in two categories: Buildings and Facilities and System Improvements.

## Wastewater Treatment Fund Expenditures



The 2012 Long Range Facilities Plan evaluated the infrastructure needs of the RWQCP. It analyzed and made recommendations on future regulations, replacement and rehabilitation needs, site planning, and flow and load projections. Funding for the major projects included in the 2025-2029 CIP requires debt financing and approval by the partners, per the individual agreements between the City and each of the partners. Over the years, staff has met with partner agencies at the staff and board/council level to discuss major capital projects. It should be noted that a portion of the expenses for these projects are expected to be incurred after the five

# WASTEWATER TREATMENT FUND

years included in the 2025-2029 CIP. Staff has applied for State Revolving Fund loans and has considered revenue bonds for these projects.

Major projects planned include:

- Headworks Facility Replacement (Fiscal Year 2025: \$2.7 million; 5-Year CIP: \$53.7 million)
- Local Advanced Water Purification Facility (Fiscal Year 2025: \$63.8 million; 5-Year CIP: \$63.8 million)
- New Laboratory and Environmental Services Building (Fiscal Year 2025: \$16.6 million; 5-year CIP: \$16.6 million)
- Outfall Line Construction (Fiscal Year 2025: \$10.7 million; 5-Year CIP: \$18.2 million)
- Secondary Treatment Upgrades (Fiscal Year 2025: \$1.1 million; 5-Year CIP: \$1.1 million)

Minor CIP projects are funded through recurring payments to the City by the partner agencies, with the total dollar amount for the minor CIP projects capped by the partner agreements and adjusted annually for inflation. Minor projects are budgeted in Plant Repair, Retrofit, and Equipment Replacement (Fiscal Year 2025: \$8.9 million; 5-Year CIP: \$26.8 million).

## Infrastructure Inventory

CLASSIFICATION	TYPE
Liquid Treatment Systems	Preliminary, Primary, Secondary, and Tertiary Treatment, UV Disinfection, and Outfall
Solids Treatment Systems	Solids Handling
Staff Buildings	Staff Buildings and Support Systems
Recycled Water	Recycled Water Treatment

## Buildings and Facilities

The Buildings and Facilities category accounts for projects that will improve or construct facilities that house equipment related to wastewater treatment at the RWQCP. During the 2025-2029 CIP, two projects are programmed in this category.

### 2025-2029 Capital Improvement Program

#### Recurring Projects

There is one recurring project in this category as part of the 2025-2029 CIP.

- Plant Master Plan (Fiscal Year 2025: \$0.4 million; 5-Year CIP: \$2.3 million)

#### Non-Recurring Projects

There is one non-recurring project in this category as part of the 2025-2029 CIP.

- New Laboratory and Environmental Services Building (Fiscal Year 2025: \$16.5 million; 5-Year CIP: \$16.5 million)

## System Improvements

The System Improvements category accounts for all infrastructure and equipment related to the safe and efficient treatment of wastewater received at the RWQCP. Over the course of the 2025-2029 CIP, approximately \$168.8 million is allocated towards System Improvements projects, with \$92.2 million allocated in Fiscal Year 2025.

# WASTEWATER TREATMENT FUND

## Recent Accomplishments

- Completed 100% design of the Local Advanced Water Purification Facility (WQ-19003).

## 2025-2029 Capital Improvement Program

### Recurring Projects

There is one recurring project in this category: Plant Repair, Retrofit, and Equipment Replacement (Fiscal Year 2025: \$8.9 million; 5-Year CIP: \$26.8 million). This project provides funding for minor CIP projects such as assessment, repair, and retrofit of the concrete and metal structural condition of the plant. The United States Environmental Protection Agency mandates that funding is allocated for equipment replacement to ensure adequate wastewater treatment reliability.

### Non-Recurring Projects

There are seven non-recurring projects in this category :

- Headworks Facility Replacement (Fiscal Year 2025: \$2.7 million; 5-Year CIP: \$53.7 million)
- Horizontal Levee Pilot (Fiscal Year 2025: \$0.4 million; 5-Year CIP \$0.6 million)
- Joint Intercepting Sewer Rehabilitation (Fiscal Year 2025: \$3.6 million; 5-Year CIP \$3.6 million)
- Local Advanced Water Purification Facility (Fiscal Year 2025: \$63.8 million; 5-Year CIP: \$63.8 million)
- Outfall Line Construction (Fiscal Year 2025: \$10.7 million; 5-Year CIP: \$18.2 million)
- Secondary Treatment Upgrades (Fiscal Year 2025: \$1.1 million; 5-Year CIP: \$1.1 million)

## Wastewater Treatment Fund

Project Number	Project Title	FY 2024 Budget	FY 2024 Estimate	FY 2025 Proposed	FY 2026	FY 2027	FY 2028	FY 2029	5-Year Total
<b>SOURCE OF FUNDS</b>									
<b>Other</b>									
<b>WQ-16002</b>	Headworks Facility Replacement	4,757,000	4,757,000	0	0	0	0	50,497,864	50,497,864
<b>WQ-24000</b>	Joint Intercepting Sewer Rehabilitation (Phase 1)	12,500,000	8,934,970	3,565,030	0	0	0	0	3,565,030
<b>WQ-19003</b>	Local Advanced Water Purification System	18,110,136	1,128,741	63,526,650	0	0	0	0	63,526,650
<b>WQ-14002</b>	New Laboratory And Environmental Services Building	0	0	16,410,000	0	0	0	0	16,410,000
<b>WQ-19000</b>	Outfall Line Construction	10,582,800	10,582,800	0	0	7,195,200	0	0	7,195,200
<b>WQ-14003</b>	Primary Sedimentation Tank Rehabilitation	9,284,020	9,284,020	0	0	0	0	0	0
<b>Other Total</b>		<b>\$55,233,956</b>	<b>\$34,687,531</b>	<b>\$83,501,680</b>	<b>\$0</b>	<b>\$7,195,200</b>	<b>\$0</b>	<b>\$50,497,864</b>	<b>\$141,194,744</b>
<b>Revenue from Other Agencies</b>									
<b>WQ-19001</b>	Secondary Treatment Upgrades	189,392,611	188,259,932	1,132,679	0	0	0	0	1,132,679
<b>Revenue from Other Agencies Total</b>		<b>\$189,392,611</b>	<b>\$188,259,932</b>	<b>\$1,132,679</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,132,679</b>
<b>Total Sources</b>		<b>\$244,626,567</b>	<b>\$222,947,463</b>	<b>\$84,634,359</b>	<b>\$0</b>	<b>\$7,195,200</b>	<b>\$0</b>	<b>\$50,497,864</b>	<b>\$142,327,423</b>

### USE OF FUNDS



# WASTEWATER TREATMENT FUND

## Wastewater Treatment Fund *(Continued)*

Project Number	Project Title	FY 2024 Budget	FY 2024 Estimate	FY 2025 Proposed	FY 2026	FY 2027	FY 2028	FY 2029	5-Year Total
<b>Buildings and Facilities</b>									
WQ-14002	New Laboratory And Environmental Services Building	137,995	137,995	16,549,736	0	0	0	0	16,549,736
WQ-10001	Plant Master Plan	779,302	779,301	442,061	490,398	459,867	491,592	444,489	2,328,407
<b>Buildings and Facilities Total</b>		<b>\$917,297</b>	<b>\$917,296</b>	<b>\$16,991,797</b>	<b>\$490,398</b>	<b>\$459,867</b>	<b>\$491,592</b>	<b>\$444,489</b>	<b>\$18,878,143</b>
<b>System Improvements</b>									
WQ-16002	Headworks Facility Replacement	4,795,266	2,156,292	2,651,331	0	0	0	51,013,167	53,664,498
WQ-22001	Horizontal Levee Pilot	396,168	149,501	398,523	167,181	0	0	0	565,704
WQ-24000	Joint Intercepting Sewer Rehabilitation (Phase 1)	12,573,488	9,008,457	3,581,724	0	0	0	0	3,581,724
WQ-19003	Local Advanced Water Purification System	18,317,857	1,336,462	63,824,130	0	0	0	0	63,824,130
WQ-19000	Outfall Line Construction	10,668,017	62,217	10,655,464	0	7,520,073	0	0	18,175,537
WQ-19002	Plant Repair, Retrofit, and Equipment Replacement	15,363,965	10,306,758	8,910,839	4,401,558	4,237,462	4,699,177	4,545,919	26,794,955
WQ-14003	Primary Sedimentation Tank Rehabilitation	10,122,747	9,122,747	1,004,682	0	0	0	0	1,004,682
WQ-19001	Secondary Treatment Upgrades	177,542,253	176,409,574	1,137,983	0	0	0	0	1,137,983
<b>System Improvements Total</b>		<b>\$249,779,761</b>	<b>\$208,552,008</b>	<b>\$92,164,676</b>	<b>\$4,568,739</b>	<b>\$11,757,535</b>	<b>\$4,699,177</b>	<b>\$55,559,086</b>	<b>\$168,749,213</b>
<b>Total Uses</b>		<b>\$250,697,058</b>	<b>\$209,469,304</b>	<b>\$109,156,473</b>	<b>\$5,059,137</b>	<b>\$12,217,402</b>	<b>\$5,190,769</b>	<b>\$56,003,575</b>	<b>\$187,627,356</b>



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## Buildings and Facilities



**Fund:** Wastewater Treatment Fund  
**Category:** Buildings and Facilities  
**Project Location:** 2501 Embarcadero Way  
**Managing Department:** Public Works  
**Initial Project Start:** Winter 2015  
**Initial Project Completion:** Fall 2021  
**Revised Project Start:** Spring 2019  
**Revised Project Completion:** Fall 2031  
**Project Number:** WQ-14002

Water Quality Control Plant Laboratory

## New Laboratory And Environmental Services Building

### Description

This project provides funding for a new building that will consolidate staff and provide a larger updated lab.

### Justification

The existing laboratory does not have adequate space for staff, instruments, chemical storage, and microbiology testing. Due to limited space, staff is currently located in four separate aging buildings, which house industrial pumps, limiting the number of staff that can be assigned to each building.

### Supplemental Information

This project was identified in the Long Range Facilities Plan accepted by City Council in 2012. Construction funding via a low interest State Revolving Fund (SRF) loan or a revenue bond will be pursued for this project, which is subject to approval from partner agencies (Stanford University, Mountain View, Los Altos, Los Altos Hills, and the East Palo Alto Sanitary District). Partners have already approved repayment of an SRF design and planning loan, while staff evaluate the revenue bond option as an alternative funding source.

### Significant Changes

**2025-2029 CIP:** The original project scope included building a building on the current Plant footprint. Total project funding has decreased from \$23.4 million to \$17.1 million while staff evaluates land acquisition and space planning options.

**2024-2028 CIP:** Project advanced planning will be integrated with a Long Range Facilities Plan Update. Timeline and funding moved to FY2025.

**2023-2027 CIP:** Project planning commenced in Spring 2022. The project cost estimate and timeline will be updated as the project definition is refined after planning and design.

# WASTEWATER TREATMENT FUND

**2022-2026 CIP:** Full design will proceed following additional planning level analyses including evaluation of additional options, including potential lease or facility procurement options. If the project continues as planned, construction is projected to begin in FY 2024. Funding for subsequent years has been consolidated into the fiscal years that the design and construction contracts are anticipated to be awarded, Fiscal Years 2022 and 2024 respectively.

**2021-2025 CIP:** Construction has been delayed and projected to begin in FY 2022.

**2020-2024 CIP:** Design contract slightly delayed and awarded in February 2019.

**2019-2023 CIP:** Design phase of the project is expected to start in Fall 2018. The City is exploring funding alternatives for the project; therefore, the funding source is no longer stated as Revenue from the State of California.

**2018-2022 CIP:** Partners approved repayment of the SRF design and planning loan, but securing the loan took longer than expected and there was uncertainty about availability of State funds. The City will explore alternate methods of funding such as a revenue bond. Project planning/design can commence once the funds are secured, but the timeline has been impacted.

**2017-2021 CIP:** Approval by partner agencies was required for project approval and to guarantee repayment of any state loans.

**2016-2020 CIP:** Project budget in FY 2016 now captures an additional \$4.0 million more in FY 2020 for final design and start of construction.

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Other	0	0	0	16,410,000	0	0	0	0	16,410,000	0	16,410,000
Wastewater Treatment Fund	363,703	137,995	137,995	139,736	0	0	0	0	139,736	0	641,434
<b>Total</b>	<b>\$363,703</b>	<b>\$137,995</b>	<b>\$137,995</b>	<b>\$16,549,736</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$16,549,736</b>	<b>\$0</b>	<b>\$17,051,434</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Construction	0	0	0	13,965,090	0	0	0	0	13,965,090	0	13,965,090
Design	363,703	137,995	137,995	2,584,646	0	0	0	0	2,584,646	0	3,086,344
<b>Total</b>	<b>\$363,703</b>	<b>\$137,995</b>	<b>\$137,995</b>	<b>\$16,549,736</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$16,549,736</b>	<b>\$0</b>	<b>\$17,051,434</b>

## Operating Impact

This project is anticipated to impact operating expenses in the future such as utilities, janitorial services, and alarm/security systems. Once the design, including features and square feet, is complete, costs will be quantified and adjustments will be brought forward in future budgets.

# WASTEWATER TREATMENT FUND

<b>Relationship to Comprehensive Plan</b>	<b>Potential Board/Commission Review:</b>
<b>Primary Connection</b>	
Element: Natural Environment	Planning and Transportation Commission
Section: Water Resources	Architectural Review Board
Goal: N-4	
Policy: N-4.16	
Program: N4.16.1	
<b>Environmental Impact Analysis:</b>	
CEQA will be required.	



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## WASTEWATER TREATMENT FUND



**Fund:** Wastewater Treatment Fund  
**Category:** Buildings and Facilities  
**Project Location:** 2501 Embarcadero Way  
**Managing Department:** Public Works  
**Initial Project Start:** Recurring  
**Initial Project Completion:** Recurring  
**Revised Project Start:** N/A  
**Revised Project Completion:** N/A  
**Project Number:** WQ-10001

Looking West from Fixed Film Reactors

# Plant Master Plan

## Description

This project provides funding for the planning and program management of the Long Range Facilities Plan (LRFP) which was completed in 2012. Program management includes project definitions of long range capital projects, acquisition of funding for new large capital projects, preparation of City issued design consultant Request for Proposal packages, and ancillary services related to plan implementation. The program management services are needed through the full execution of the projects covered in the LRFP. The projects in the LRFP are currently underway and are in various stages of development and completion.

## Justification

The long range facilities needed for a wastewater treatment plant primarily consist of replacing aging industrial facilities but also include plant process optimizations, new support infrastructure, and responsiveness to changing situations and regulations.

## Significant Changes

**2024-2028 CIP:** A Long Range Facilities Plan update will be initiated in Fiscal Year 2024.

**2023-2027 CIP:** Projects outlined in the LRFP are anticipated to need oversight and management until FY 2055, so this project has been recategorized to a recurring project in order to maintain funding for overall management of the LRFP for the next 30+ years.

**2022-2026 CIP:** The term of the Program Manager contract was extended to FY 2023 to continue to support implementation of the LRFP due to delays in securing state revolving fund loans.

**2019-2023 CIP:** The term of the Program Manager contract is extended to FY 2021 to continue to support implementation of the LRFP.



# WASTEWATER TREATMENT FUND

**2017-2021 CIP:** The Plant is in the second year of the program manager contract and program implementation continues to be dependent upon securing state revolving fund loans.

**2016-2020 CIP:** After completion of the LRFP in 2012, a program manager was brought on board to support implementation of the master plan. About \$0.6 million of the consultant’s work was approved during FY 2015, and the remainder was subject to approval of an additional \$3.3 million in capital funding authorization in the FY 2016 capital budget.

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Wastewater Treatment Fund</b>	N/A	779,302	779,301	442,061	490,398	459,867	491,592	444,489	2,328,407	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$779,302</b>	<b>\$779,301</b>	<b>\$442,061</b>	<b>\$490,398</b>	<b>\$459,867</b>	<b>\$491,592</b>	<b>\$444,489</b>	<b>\$2,328,407</b>	<b>\$0</b>	<b>N/A</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Design</b>	N/A	779,302	779,301	442,061	490,398	459,867	491,592	444,489	2,328,407	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$779,302</b>	<b>\$779,301</b>	<b>\$442,061</b>	<b>\$490,398</b>	<b>\$459,867</b>	<b>\$491,592</b>	<b>\$444,489</b>	<b>\$2,328,407</b>	<b>\$0</b>	<b>N/A</b>

## Operating Impact

There are no operating or maintenance expenses associated with this project.

<p><b>Relationship to Comprehensive Plan</b>  <b>Primary Connection</b></p> <p>Element: Natural Environment          Section: Water Resources          Goal: N-4          Policy: N-4.16          Program: N4.16.1</p> <p><b>Environmental Impact Analysis:</b>          This project may require environmental review.</p>	<p><b>Potential Board/Commission Review:</b></p> <p>Planning and Transportation Commission          Utilities Advisory Commission</p>
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## System Improvements



**Fund:** Wastewater Treatment Fund  
**Category:** System Improvements  
**Project Location:** 2501 Embarcadero Way  
**Managing Department:** Public Works  
**Initial Project Start:** Spring 2020  
**Initial Project Completion:** Winter 2024  
**Revised Project Start:** Winter 2024  
**Revised Project Completion:** Fall 2031  
**Project Number:** WQ-16002

Headworks Facility

## Headworks Facility Replacement

### Description

This project provides funding for replacing influent pumping, including the suction and discharge piping, pipe manifolds, valves, the electrical and controls system, screening equipment, grit handling equipment, the force main to the primaries and modifying headworks building, and yard piping.

### Justification

This project was identified in the Long Range Facilities Plan (LRFP) report accepted by City Council in 2012. The existing headworks are at the end of their useful life and replacement is required for operational reliability of pumping the raw sewage from the influent sewers into the treatment plant.

### Supplemental Information

Partner agencies' approval to repay design and construction loans is needed as a low-interest state revolving fund loan, United States Environmental Protection Agency Water Infrastructure Finance and Innovation Act loan, and / or a revenue bond will be pursued to fund the project.

### Significant Changes

**2025-2029 CIP:** Project construction initiation moved from FY 2026 to FY 2029, construction completion moved from Summer 2029 to Fall 2031, and the total project cost increased from \$52.1 million to \$55.8 million for inflation.

**2024-2028 CIP:** Project cost updated based on newest inflation and mid-point construction estimates.

**2023-2027 CIP:** Project planning commenced in Spring 2022 followed by design and construction in Fiscal Years 2024 and 2026 respectively. Project cost estimate will be updated as the project definition is refined after planning and design.

# WASTEWATER TREATMENT FUND

**2022-2026 CIP:** Project is delayed from Winter 2021 to Winter 2022 due to continued budget constraints, staffing resources, and construction logistics with other projects in progress. Project cost increased from the prior estimate of \$35.2 million to account for anticipated future cost escalation/inflation. Funding for subsequent years has been consolidated into the fiscal years the design and construction contracts are anticipated to be awarded, Fiscal Years 2023 and 2026 respectively.

**2021-2025 CIP:** Project is delayed from Winter 2020 to Winter 2021 due to budget constraints, staffing resources, and construction logistics with other projects in progress.

**2020-2024 CIP:** Project start delayed from Summer 2019 to Winter 2020 due to budget constraints, staffing resources, and construction logistics with other projects in progress.

**2019-2023 CIP:** Staff is evaluating alternative funding options, therefore the funding source is no longer stated explicitly as Revenue from the State of California.

**2018-2022 CIP:** Staff revised the Funding Sources Schedule and the Expenditure Schedule to better reflect the project timeline recommended in the LRF, where design will take place from 2020 to 2022, with CEQA and construction to follow.

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Other	0	4,757,000	4,757,000	0	0	0	0	50,497,864	50,497,864	0	55,254,864
Wastewater Treatment Fund	0	38,266	(2,600,708)	2,651,331	0	0	0	515,303	3,166,634	0	565,926
<b>Total</b>	<b>\$0</b>	<b>\$4,795,266</b>	<b>\$2,156,292</b>	<b>\$2,651,331</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$51,013,167</b>	<b>\$53,664,498</b>	<b>\$0</b>	<b>\$55,820,790</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Construction	0	0	0	0	0	0	0	51,013,167	51,013,167	0	51,013,167
Design	0	4,795,266	2,156,292	2,651,331	0	0	0	0	2,651,331	0	4,807,623
<b>Total</b>	<b>\$0</b>	<b>\$4,795,266</b>	<b>\$2,156,292</b>	<b>\$2,651,331</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$51,013,167</b>	<b>\$53,664,498</b>	<b>\$0</b>	<b>\$55,820,790</b>

### Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

# WASTEWATER TREATMENT FUND

**Relationship to Comprehensive Plan  
Primary Connection**

Element: Natural Environment  
Section: Water Resources  
Goal: N-4  
Policy: N-4.16  
Program: N4.16.1

**Potential Board/Commission Review:**

Planning and Transportation  
Commission  
Architectural Review Board

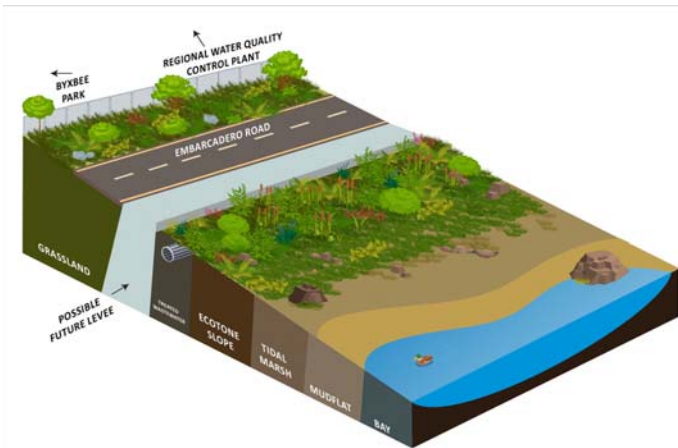
**Environmental Impact Analysis:**

This project is expected to have a possible exemption from CEQA under Section 15301.



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# WASTEWATER TREATMENT FUND



**Fund:** Wastewater Treatment Fund  
**Category:** System Improvements  
**Project Location:** Palo Alto Baylands  
**Managing Department:** Public Works  
**Initial Project Start:** Summer 2021  
**Initial Project Completion:** Winter 2025  
**Revised Project Start:** N/A  
**Revised Project Completion:** Fall 2029  
**Project Number:** WQ-22001

Schematic of a horizontal levee

## Horizontal Levee Pilot

### Description

This project consists of the design, permitting, and construction of a horizontal levee pilot system. The system will utilize treated wastewater to create a transitional brackish habitat on the Bayside of a future flood control levee located in the Palo Alto Baylands, adjacent to the City of Palo Alto's Regional Water Quality Control Plant (RWQCP). Information and data collected by this pilot system could support broader implementation of horizontal levees as green infrastructure components in larger flood control levee improvement projects within Palo Alto and beyond.

### Justification

The City of Palo Alto is currently evaluating needed improvements to the existing flood control levees surrounding the City under the Baylands Flood Protection Levee Improvements Project (PE-17006). A horizontal levee is a green infrastructure alternative to the typical wave attenuation technologies (i.e., rip rap) used for flood control levees. Compared to traditional wave attenuation technologies, horizontal levees provide multiple benefits, including sea-level rise protection, habitat improvement, and polishing treatment for treated wastewater. However, because horizontal levees are an emerging technology, the City has been evaluating the feasibility of constructing a pilot system within the Baylands that would collect information and data. This site-specific information could support broader implementation of horizontal levees as green infrastructure components within the larger flood control levee improvement projects. Ultimately, the pilot system itself would be integrated into the larger flood control levee system once built.

### Supplemental Information

City staff, in collaboration with the San Francisco Estuary Partnership (SFEP) as part of the Association of Bay Area Governments (ABAG), have secured \$4.5 million from numerous grants to support planning, design, and construction of this Project. Grantors include the United States Environmental Protection Agency and the



# WASTEWATER TREATMENT FUND

State Coastal Conservancy. The grants were awarded to and are administered by SFEP. City Council approved a cooperative agreement between the City and ABAG on January 22, 2024 (Report #2303-1230) to construct the project. The City is expected to fund \$0.7 million in direct payments for permitting, environmental review, community outreach, and monitoring studies as part of this project.

## Significant Changes

**2025-2029 CIP:** Construction of the horizontal levee is anticipated to complete in early 2025. Resource agency construction permits require on-going monitoring of the location for at least five years following construction until Fall 2029.

**2023-2027 CIP:** Grant funding has been secured through the Environmental Protection Agency (EPA) Water Quality Improvement Fund for completion of the design phase of the project. The project budget includes the City's fund match requirements. The project team will continue to seek grant funding for the construction phase of the project in subsequent years.

**2022-2026 CIP:** Project established during FY 2022.

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Wastewater Treatment Fund</b>	39,421	396,168	149,502	398,523	167,181	0	0	0	565,704	0	754,627
<b>Total</b>	<b>\$39,421</b>	<b>\$396,168</b>	<b>\$149,502</b>	<b>\$398,523</b>	<b>\$167,181</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$565,704</b>	<b>\$0</b>	<b>\$754,627</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Construction</b>	4,577	150,882	881	301,405	167,181	0	0	0	468,586	0	474,044
<b>Design</b>	34,843	245,286	148,620	97,118	0	0	0	0	97,118	0	280,581
<b>Total</b>	<b>\$39,420</b>	<b>\$396,168</b>	<b>\$149,501</b>	<b>\$398,523</b>	<b>\$167,181</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$565,704</b>	<b>\$0</b>	<b>\$754,625</b>

## Operating Impact

This project is anticipated to impact operating expenses in the future such as utilities. Once the design is complete, costs will be quantified and adjustments will be brought forward in future budgets.

# WASTEWATER TREATMENT FUND

<b>Relationship to Comprehensive Plan Primary Connection</b>	<b>Relationship to Comprehensive Plan Secondary Connection</b>	<b>Potential Board/Commission Review:</b>
Element: Natural Environment Section: Climate Change and Climate Adaptation Goal: N-8 Policy: N-8.4 Program: N8.4.1	Element: Natural Environment Section: Community Safety Goal: S-2 Policy: S-2.12 Program: S2.12.2	Parks and Recreation Commission Planning and Transportation Commission Architectural Review Board
<b>Environmental Impact Analysis:</b> This project is expected to qualify for an exemption under the California Environmental Quality Act for small habitat restoration projects.		



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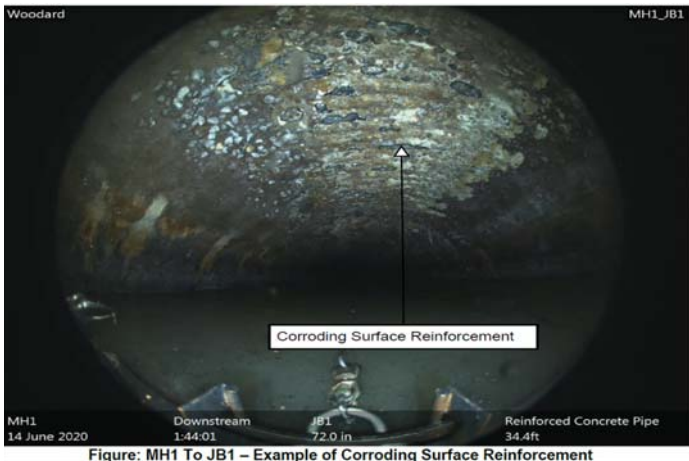


Figure: MH1 To JB1 – Example of Corroding Surface Reinforcement

**Fund:** Wastewater Treatment Fund  
**Category:** System Improvements  
**Project Location:** 2501 Embarcadero Way  
**Managing Department:** Public Works  
**Initial Project Start:** Summer 2023  
**Initial Project Completion:** Spring 2024  
**Revised Project Start:** N/A  
**Revised Project Completion:** Fall 2024  
**Project Number:** WQ-24000

## Sewer Pipe Interior

# Joint Intercepting Sewer Rehabilitation (Phase 1)

## Description

This project provides funding for the rehabilitation of the 60" and 72" Joint Intercepting Sewer (JIS) trunk line at the Regional Water Quality Control Plant (RWQCP). The trunk sewer line, constructed in 1972, is approximately 9000 feet long consisting of 13 manholes/structures. The JIS conveys raw wastewater from the City of Mountain View, City of Los Altos, Los Altos Hills, and a portion Palo Alto, which accounts for more than half of the RWQCP's influent.

## Justification

In Spring 2020, consultant Woodard and Curran performed a condition assessment of the entire alignment of the 60"/72" sewer trunk line and associated manholes/structures using close-circuit television (CCTV), sonar inspection, and visual inspection of the manholes and structures to refine the assessments made in 2012. The condition assessment detailed the need for rehabilitation of the trunk line. In February 2021, an analysis of alternative rehabilitation methods was completed. The alternative analysis found cured-in-place pipe lining with temporary wastewater bypass to be the most favorable sewer trunk line rehabilitation technology and grout repair coupled with epoxy lining or calcium aluminate to be the most favorable manhole rehabilitation method.

The recommended Phase 1 rehabilitation project includes repairs to a trunk line section, approximately 2,364 feet long, where the pipeline has reached the end of its useful life and exposed or corroded rebar, cracks or fractures, and joint separations or offsets were detected. The rehabilitation work includes the removal of sedimentation and debris, cleaning, repairing the corrosion damage to the pipe and the manholes/structures, and relining the interior of the pipe throughout the sewer trunk line. The failure of the pipe could result in raw sewage escaping from the pipe and contaminating the bay/park lands. The scope of Phase 2 of this project will be evaluated and brought forward after Phase 1 is completed and remaining needs are assessed.

# WASTEWATER TREATMENT FUND

## Supplemental Information

The rehabilitation or replacement of 60"/72" trunk sewer was identified in the Long Range Facilities Plan accepted by the City Council in 2012. Construction funding via a revenue bond was approved by partner agencies in December 2023 (Report# 2308-1879).

## Significant Changes

**2025-2029 CIP:** Design is complete and construction is set to start in Summer 2024.

**2024-2028 CIP:** Design is in process and expected to be completed in fall 2023. Advertisement of construction IFB to follow in fall or winter 2023.

**2023-2027 CIP:** Project established during FY 2023.

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Other	0	12,500,000	8,934,970	3,565,030	0	0	0	0	3,565,030	0	12,500,000
Wastewater Treatment Fund	0	73,488	73,487	16,694	0	0	0	0	16,694	0	90,181
<b>Total</b>	<b>\$0</b>	<b>\$12,573,488</b>	<b>\$9,008,457</b>	<b>\$3,581,724</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$3,581,724</b>	<b>\$0</b>	<b>\$12,590,181</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Construction	0	12,573,488	9,008,457	3,581,724	0	0	0	0	3,581,724	0	12,590,181
<b>Total</b>	<b>\$0</b>	<b>\$12,573,488</b>	<b>\$9,008,457</b>	<b>\$3,581,724</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$3,581,724</b>	<b>\$0</b>	<b>\$12,590,181</b>

## Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

<p><b>Relationship to Comprehensive Plan</b>  <b>Primary Connection</b></p> <p>Element: Natural Environment                  Section: Water Resources                  Goal: N-4                  Policy: N-4.16                  Program: N4.16.1</p> <p><b>Environmental Impact Analysis:</b>                  This project is expected to have a possible exemption from CEQA under Section 15302.</p>	<p><b>Potential Board/Commission Review:</b></p> <p>Planning and Transportation                  Commission</p>
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Filtration system testing unit

**Fund:** Wastewater Treatment Fund  
**Category:** System Improvements  
**Project Location:** 2501 Embarcadero Way  
**Managing Department:** Public Works  
**Initial Project Start:** Winter 2018  
**Initial Project Completion:** Spring 2021  
**Revised Project Start:** Spring 2021  
**Revised Project Completion:** Fall 2026  
**Project Number:** WQ-19003

# Local Advanced Water Purification System

## Description

This project provides funding for a Local Advanced Water Purification Facility to further improve the quality of the tertiary-treated recycled water by microfiltration or ultrafiltration followed by reverse osmosis to reduce the level of Total Dissolved Solids (TDS).

## Justification

The Regional Water Quality Control Plant (RWQCP) currently provides tertiary-treated recycled water to permitted users in its service area, mostly for irrigation. The current recycled water delivered has a TDS level of 800-900 mg/L. City Council adopted a goal to reduce the TDS level to 600 mg/L in 2010. In 2015, City Council adopted an Environmental Impact Report for the Phase III Recycled Water Pipeline to South Palo Alto and Stanford Research Park, which specifically mentioned recycled water quality would be improved through additional treatment at the RWQCP. In addition, there are approximately 40 potential recycled water users in the service area with their connection still pending until the RWQCP lowers the recycled water TDS level.

## Supplemental Information

The RWQCP, in collaboration with Valley Water (formerly known as the Santa Clara Valley Water District) and the City of Mountain View, conducted an Advanced Water Purification System Feasibility Study. This study recommended microfiltration or ultrafiltration followed by reverse osmosis after comparing different water quality improvement options. The study also included evaluations of greenhouse gas emissions, storage requirements, facility sites, concentrate treatment options, and initial design and construction cost estimates.

This project was also identified in the Long Range Facilities Plan accepted by City Council in 2012. Funding via contributions from Valley Water, the City of Mountain View, the US Bureau of Reclamation, and a State Water Resources Control Board low-interest loan are being pursued for this project.

# WASTEWATER TREATMENT FUND

## Significant Changes

**2025-2029 CIP:** Total project cost has been updated to reflect 100% design estimate of \$67.1 million, an increase of approximately \$7.1 million from the 2024-2028 CIP. Project name changed from "Advanced Water Purification Facility" to "Local Advanced Water Purification System" to differentiate between other projects with similar names.

**2024-2028 CIP:** Project cost has been updated to reflect 90% design estimate.

**2022-2026 CIP:** Project was delayed due to the amount of time needed to bring the design engineer under contract. Project budget updated to align with original project cost estimate of \$20.2 million, which may be further refined through the design process. Construction funding has been consolidated into FY 2023, when a contract is anticipated to be awarded.

**2021-2025 CIP:** Construction of project has been delayed and projected to begin in FY 2022.

**2020-2024 CIP:** Project start delayed from Winter 2018 to Winter 2019 due to lack of funding as staff is still negotiating with the City of Mountain View and Valley Water to secure funding for this project.

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Other	450,863	18,110,136	1,128,741	63,526,650	0	0	0	0	63,526,650	0	65,106,254
Revenue from Other Agencies	1,451,889	0	0	0	0	0	0	0	0	0	1,451,889
Wastewater Treatment Fund	74,697	207,721	207,721	297,480	0	0	0	0	297,480	0	579,898
<b>Total</b>	<b>\$1,977,449</b>	<b>\$18,317,857</b>	<b>\$1,336,462</b>	<b>\$63,824,130</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$63,824,130</b>	<b>\$0</b>	<b>\$67,138,041</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Construction	0	17,061,745	210,241	62,269,385	0	0	0	0	62,269,385	0	62,479,626
Design	1,977,449	1,256,112	1,126,221	1,554,745	0	0	0	0	1,554,745	0	4,658,415
<b>Total</b>	<b>\$1,977,449</b>	<b>\$18,317,857</b>	<b>\$1,336,462</b>	<b>\$63,824,130</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$63,824,130</b>	<b>\$0</b>	<b>\$67,138,041</b>

## Operating Impacts

	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total
Wastewater Treatment Fund	0	840,000	865,000	891,000	918,000	3,514,000

## Operating Impact

The operations and maintenance cost of the project is anticipated to be approximately \$840,000 per year beginning in Fiscal Year 2026 and escalate by recycled water demand and inflation annually thereafter.

# WASTEWATER TREATMENT FUND

<b>Relationship to Comprehensive Plan Primary Connection</b>	<b>Relationship to Comprehensive Plan Secondary Connection</b>	<b>Potential Board/Commission Review:</b>
Element: Natural Environment Section: Water Resources Goal: N-4 Policy: N-4.17	Element: Natural Environment Section: Water Resources Goal: N-4 Policy: N-4.16 Program: N4.16.1	Planning and Transportation Commission Architectural Review Board
<b>Environmental Impact Analysis:</b> An addendum to the existing EIR completed in 2015 for the expansion of the Palo Alto recycled water distribution system will be required.		





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## WASTEWATER TREATMENT FUND



**Fund:** Wastewater Treatment Fund  
**Category:** System Improvements  
**Project Location:** Wastewater Treatment Plant and Palo Alto Airport  
**Managing Department:** Public Works  
**Initial Project Start:** Summer 2018  
**Initial Project Completion:** Fall 2019  
**Revised Project Start:** Summer 2021  
**Revised Project Completion:** Fall 2028  
**Project Number:** WQ-19000

Outfall, Winter 2017

# Outfall Line Construction

## Description

This project consists of the construction of a new parallel outfall pipe to convey final plant effluent to San Francisco Bay.

## Justification

Installation of a new outfall line is needed to address outfall age (built in 1964) and, more importantly, to address the outfall capacity in light of peak wet-weather flow, peak tide, and future sea level rise scenarios. The existing system of a 54-inch outfall line and a 36-inch legacy outfall line are inadequate to pass the Plant's peak wet-weather hydraulic flow capacity of 80 million gallons per day.

## Supplemental Information

This project was identified in the Long Range Facilities Plan report accepted by City Council in 2012. Construction funding via a low-interest State Revolving Fund loan will be pursued for this project, while staff evaluate revenue bond options as an alternative funding source.

The existing 54-inch outfall needs rehabilitation, which can only be completed after the new outfall is operational. Rehabilitating the existing 54-inch outfall will be a future project. Once rehabilitated, the 54-inch outfall along with the new parallel outfall in this project are anticipated to work together to convey peak flows for another 50 or more years. The 36-inch legacy outfall line will be plugged and abandoned in place.

## Significant Changes

**2025-2029 CIP:** Work initially planned for FY 2026 has been delayed one year to FY 2027.

**2024-2028 CIP:** Cost estimate has been increased based on 90% design.

# WASTEWATER TREATMENT FUND

**2023-2027 CIP:** Attorneys are drafting utility easements and rental payments to satisfy Federal Aviation Administration (FAA) Grant Assurances for "fair market value" of utility assets. Due to uncertainty in legal timetable, the project is on hold until these legal issues are resolved.

**2022-2026 CIP:** Project is delayed to obtain a low-interest SRF loan and the additional review required in coordination with the Palo Alto Airport, Federal Aviation Administration (FAA), and US Army Corps of Engineers Levee Project.

**2021-2025 CIP:** Construction cost for the project is estimated to be increased by approximately \$660,000 as staff finalized the SRF loan application. The SRF loan funding, including this budget increase, is being secured and finalized.

**2020-2024 CIP:** Project design was completed and construction has not begun due to permitting and finalization on the lease agreement with California State Lands Commission (CSLC).

**2019-2023 CIP:** Staff is evaluating alternative funding options, therefore the funding source is no longer stated explicitly as Revenue from the State of California.

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Other	0	10,582,800	10,582,800	0	0	7,195,200	0	0	7,195,200	0	17,778,000
Wastewater Treatment Fund	0	85,217	(10,520,583)	10,655,464	0	324,873	0	0	10,980,337	0	459,754
<b>Total</b>	<b>\$0</b>	<b>\$10,668,017</b>	<b>\$62,217</b>	<b>\$10,655,464</b>	<b>\$0</b>	<b>\$7,520,073</b>	<b>\$0</b>	<b>\$0</b>	<b>\$18,175,537</b>	<b>\$0</b>	<b>\$18,237,754</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Construction	0	10,668,017	62,217	10,655,464	0	7,520,073	0	0	18,175,537	0	18,237,754
<b>Total</b>	<b>\$0</b>	<b>\$10,668,017</b>	<b>\$62,217</b>	<b>\$10,655,464</b>	<b>\$0</b>	<b>\$7,520,073</b>	<b>\$0</b>	<b>\$0</b>	<b>\$18,175,537</b>	<b>\$0</b>	<b>\$18,237,754</b>

## Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

# WASTEWATER TREATMENT FUND

<b>Relationship to Comprehensive Plan Primary Connection</b>	<b>Relationship to Comprehensive Plan Secondary Connection</b>	<b>Potential Board/Commission Review:</b>
Element: Natural Environment Section: Water Resources Goal: N-4 Policy: N-4.16 Program: N4.16.1	Element: Natural Environment Section: Water Resources Goal: N-4 Policy: N-4.16 Program: N4.16.2	Planning and Transportation Commission
<b>Environmental Impact Analysis:</b> This project had a mitigated negative declaration from CEQA under Section 15070.		



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## WASTEWATER TREATMENT FUND



**Fund:** Wastewater Treatment Fund  
**Category:** System Improvements  
**Project Location:** 2501 Embarcadero Way  
**Managing Department:** Public Works  
**Initial Project Start:** Recurring  
**Initial Project Completion:** Recurring  
**Revised Project Start:** N/A  
**Revised Project Completion:** N/A  
**Project Number:** WQ-19002

Old pumping plant

# Plant Repair, Retrofit, and Equipment Replacement

## Description

This project provides funding for the assessment, repair, and retrofit of the Regional Water Quality Control Plant (RWQCP) concrete and metal structures; the replacement of necessary RWQCP equipment and ancillary facilities to maintain treatment reliability and existing infrastructure; and the replacement of large diameter flow meters built into the wastewater treatment system on sewers, pipes, and water lines.

## Justification

Plant facilities are subject to many adverse conditions and plant equipment requires periodic replacement to maintain reliability. Concrete and metal structures are evaluated for evidence of damage caused by corrosion, weathering, age, and ground movement. Facilities with repair and retrofit deficiencies need to be repaired to good structural condition to ensure that the plant continues to operate safely and reliably. In addition, United States Environmental Protection Agency and State Water Resources Control Board regulations and permits require ongoing allocated funding for equipment replacement to ensure adequate treatment reliability.

In addition to equipment physically located at the plant, there are 13 key magnetic flow meters throughout the collection system. Meters have an average life of twenty years, however, when the meter's reliability fails, the meter must be replaced immediately to continue accurate partner billing, process control, and regulatory reporting.

## Supplemental Information

Planned projects include replacement of equipment mechanisms for secondary clarifiers and sludge thickeners, and replacement of wire, transformers, switches, and electrical components in the medium voltage electrical network.

# WASTEWATER TREATMENT FUND

Tasks and funding previously budgeted in three separate maintenance related projects, WQ-80021, WQ-80022, and WQ-04011, were consolidated and budgeted in this one recurring project.

## Significant Changes

**2025-2029 CIP:** Project cost increased based on escalation.

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Wastewater Treatment Fund</b>	N/A	15,363,965	10,306,758	8,910,839	4,401,558	4,237,462	4,699,177	4,545,919	26,794,955	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$15,363,965</b>	<b>\$10,306,758</b>	<b>\$8,910,839</b>	<b>\$4,401,558</b>	<b>\$4,237,462</b>	<b>\$4,699,177</b>	<b>\$4,545,919</b>	<b>\$26,794,955</b>	<b>\$0</b>	<b>N/A</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Construction</b>	N/A	14,195,532	9,138,325	8,467,774	3,895,556	3,748,331	4,251,605	4,141,838	24,505,104	0	N/A
<b>Design</b>	N/A	1,168,433	1,168,433	443,065	506,002	489,131	447,572	404,081	2,289,851	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$15,363,965</b>	<b>\$10,306,758</b>	<b>\$8,910,839</b>	<b>\$4,401,558</b>	<b>\$4,237,462</b>	<b>\$4,699,177</b>	<b>\$4,545,919</b>	<b>\$26,794,955</b>	<b>\$0</b>	<b>N/A</b>

## Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

<p><b>Relationship to Comprehensive Plan</b>  <b>Primary Connection</b></p> <p>Element: Natural Environment          Section: Water Resources          Goal: N-4          Policy: N-4.16          Program: N4.16.1</p> <p><b>Environmental Impact Analysis:</b>          This project is expected to have a possible exemption from CEQA under Section 15301.</p>	<p><b>Potential Board/Commission Review:</b></p> <p>Planning and Transportation          Commission</p>
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**Fund:** Wastewater Treatment Fund  
**Category:** System Improvements  
**Project Location:** 2501 Embarcadero Way  
**Managing Department:** Public Works  
**Initial Project Start:** Spring 2014  
**Initial Project Completion:** Fall 2019  
**Revised Project Start:** Summer 2021  
**Revised Project Completion:** Summer 2024  
**Project Number:** WQ-14003

Primary Sedimentation Tank

## Primary Sedimentation Tank Rehabilitation

### Description

This project provides funding for new protective coatings on each of the four concrete primary sedimentation tanks and replacement of worn rotating parts and aging power distribution equipment. The tanks, installed in 1972, are 220 feet long by 41 feet wide by 14 feet deep each and remove settleable solids and floatable grease with mechanical and electrical equipment. The new coating ensures steel reinforcing bars within the concrete are protected from corrosive sewer gases and extends the concrete's life for another 30 years.

### Justification

Without recoating, the concrete will lose its structural integrity, gradually spalling and harming pumps, pipes, and treatment systems as a result. In a mild seismic event, weakened concrete could potentially collapse, endangering staff and the treatment system. Rehabilitation of the concrete slabs will extend the life of the tanks, preserving capital resources for other uses.

### Supplemental Information

This project was identified in the Long Range Facilities Plan report accepted by the City Council in 2012. Construction funding via a low-interest State Revolving Fund (SRF) loan will be pursued, which is subject to approval from the partner agencies. The partners already approved repayment of an SRF design and planning loan, while staff evaluate a revenue bond as an alternative to an SRF loan for construction.

### Significant Changes

**2025-2029 CIP:** Substantial construction completion is expected in June 2024, with project closeout anticipated in Summer 2024.

**2024-2028 CIP:** Construction is in progress and is expected to be completed in Winter 2023.



# WASTEWATER TREATMENT FUND

**2023-2027 CIP:** Due to the longer than expected time to finalize the Installment Sale Agreement for low-interest SRF loan and to re-bid the construction contract for the project, the construction start date was delayed to Summer 2021 with project completion scheduled for Winter 2023.

**2022-2026 CIP:** Construction has been delayed moving the estimated completion to Winter 2023 due to time needed to finalize the Installment Sale Agreement for low-interest SRF loan and to re-bid the construction contract.

**2021-2025 CIP:** Construction has been delayed, moving the estimated completion to Fall 2022. SRF loan funding is being secured and finalized.

**2019-2023 CIP:** Design started in January-March of 2018. The City is exploring funding alternatives; therefore, the funding source is no longer stated as Revenue from the State of California.

**2018-2022 CIP:** All partner agencies approved repayment of a planning/design loan. Securing the loan took longer than expected, and there is uncertainty about availability of State funds. The City will explore alternative methods of funding such as a revenue bond, but the project planning/design can commence once the funds are secured. Project timeline is impacted.

**2017-2021 CIP:** Approval by the partner agencies was required for project approval and to guarantee repayment of any state loans.

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Other	0	9,284,020	9,284,020	0	0	0	0	0	0	0	9,284,020
Revenue from the State of California	9,551,307	0	0	0	0	0	0	0	0	0	9,551,307
Wastewater Treatment Fund	775,594	838,729	(161,271)	1,004,682	0	0	0	0	1,004,682	0	1,619,005
<b>Total</b>	<b>\$10,326,901</b>	<b>\$10,122,749</b>	<b>\$9,122,749</b>	<b>\$1,004,682</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,004,682</b>	<b>\$0</b>	<b>\$20,454,332</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Construction	9,336,970	9,980,882	8,980,882	1,004,682	0	0	0	0	1,004,682	0	19,322,534
Design	989,924	141,865	141,865	0	0	0	0	0	0	0	1,131,789
<b>Total</b>	<b>\$10,326,894</b>	<b>\$10,122,747</b>	<b>\$9,122,747</b>	<b>\$1,004,682</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,004,682</b>	<b>\$0</b>	<b>\$20,454,323</b>

## Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

# WASTEWATER TREATMENT FUND

**Relationship to Comprehensive Plan  
Primary Connection**

Element: Natural Environment  
Section: Water Resources  
Goal: N-4  
Policy: N-4.16  
Program: N4.16.1

**Potential Board/Commission Review:**

Planning and Transportation  
Commission

**Environmental Impact Analysis:**

This project has obtained Categorical Exemption from CEQA under Section 15301.



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## WASTEWATER TREATMENT FUND



**Fund:** Wastewater Treatment Fund  
**Category:** System Improvements  
**Project Location:** 2501 Embarcadero Way  
**Managing Department:** Public Works  
**Initial Project Start:** Summer 2018  
**Initial Project Completion:** Fall 2021  
**Revised Project Start:** Fall 2018  
**Revised Project Completion:** Spring 2028  
**Project Number:** WQ-19001

Aeration basins

# Secondary Treatment Upgrades

## Description

This project provides funding for upgrades to the Secondary Treatment process at the Regional Water Quality Control Plant. The existing Secondary Treatment process has two main components: the Fixed Film Reactors (FFRs) and the Activated Sludge (AS) Process. This project includes the reconfiguration of the aeration basins, modification of the AS Process, and the elimination of the FFRs. The AS Aeration Basins will be subdivided with concrete walls creating different zones where different pollutants can be treated. Some of the zones will operate without oxygen, treating nitrogen and cutting the nitrogen in the treated wastewater by roughly half. The project will not only reduce organics and ammonia in the existing processes but will also reduce total nitrogen, the next pollutant being targeted for more stringent regulation.

## Justification

The components of the Secondary Treatment process are between 36 and 52 years old and show extreme signs of wear and structural weakness. The rehabilitation of both the FFRs and the AS Process were identified in the Long Range Facilities Plan approved by Council in 2012. In addition, regulatory agencies are developing new compliance and permit requirements for total nitrogen. A special study was completed in 2017, which proposed a complete Secondary Treatment process upgrade instead of individual rehabilitation projects. The completion of the upgrades will meet several objectives.

## Supplemental Information

The project cost is estimated to be \$193.0 million, which is more than the combined estimated cost for the FFRs, AS Aeration Basins rehabilitation, and large-scale Denitrification System (or other nutrients removal) projects due to the complexity of the construction coupled with the need to keep the Plant operating through construction.

# WASTEWATER TREATMENT FUND

## Significant Changes

**2025-2029 CIP:** Project completion estimated to be Spring 2028.

**2024-2028 CIP:** Project cost updated to \$193.3 million and project completion estimated to be Fall 2027.

**2023-2027 CIP:** The complex nature of the project has pushed design completion to Spring 2022 and increased the project budget by approximately \$20.0 million to a total of \$149.2 million. Construction is expected to take up to 45 months with completion in Fall 2026.

**2022-2026 CIP:** Project cost increased to address sea level rise policy implications, new infrastructure needed to lower project life cycle cost, a larger standby power generator for unanticipated loads, and to meet code requirements. Project timeline delayed due to an anticipated longer duration to obtain state project financing and a design delay to evaluate technology improvements. Funding for subsequent years has been consolidated into the fiscal year that the design and construction contracts are anticipated to be awarded in.

**2021-2025 CIP:** Design cost has increased as the design progresses and pending completion of a feasibility assessment that aims at intensifying the treatment process, therefore construction of project has been delayed and projected to begin in FY 2022.

**2020-2024 CIP:** Design phase began in October 2018. Project start delayed from Summer 2018 to Fall 2018 with project completion now estimated to be in Winter 2022.

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Revenue from Other Agencies	0	189,392,611	188,259,932	1,132,679	0	0	0	0	1,132,679	0	189,392,611
Revenue from the State of California	3,607,389	0	0	0	0	0	0	0	0	0	3,607,389
Wastewater Treatment Fund	7,426,777	(11,850,357)	(11,850,357)	5,304	0	0	0	0	5,304	0	(4,418,276)
<b>Total</b>	<b>\$11,034,166</b>	<b>\$177,542,254</b>	<b>\$176,409,575</b>	<b>\$1,137,983</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,137,983</b>	<b>\$0</b>	<b>\$188,581,724</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Construction	11,780,833	175,627,279	174,494,600	1,137,983	0	0	0	0	1,137,983	0	187,413,416
Design	3,993,921	1,914,974	1,914,974	0	0	0	0	0	0	0	5,908,895
<b>Total</b>	<b>\$15,774,754</b>	<b>\$177,542,253</b>	<b>\$176,409,574</b>	<b>\$1,137,983</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,137,983</b>	<b>\$0</b>	<b>\$193,322,311</b>

## Operating Impact

This project is anticipated to impact operating expenses in the future, potentially by lowering utilities usage. As these costs are quantified, adjustments will be brought forward in future budgets, as necessary.

# WASTEWATER TREATMENT FUND

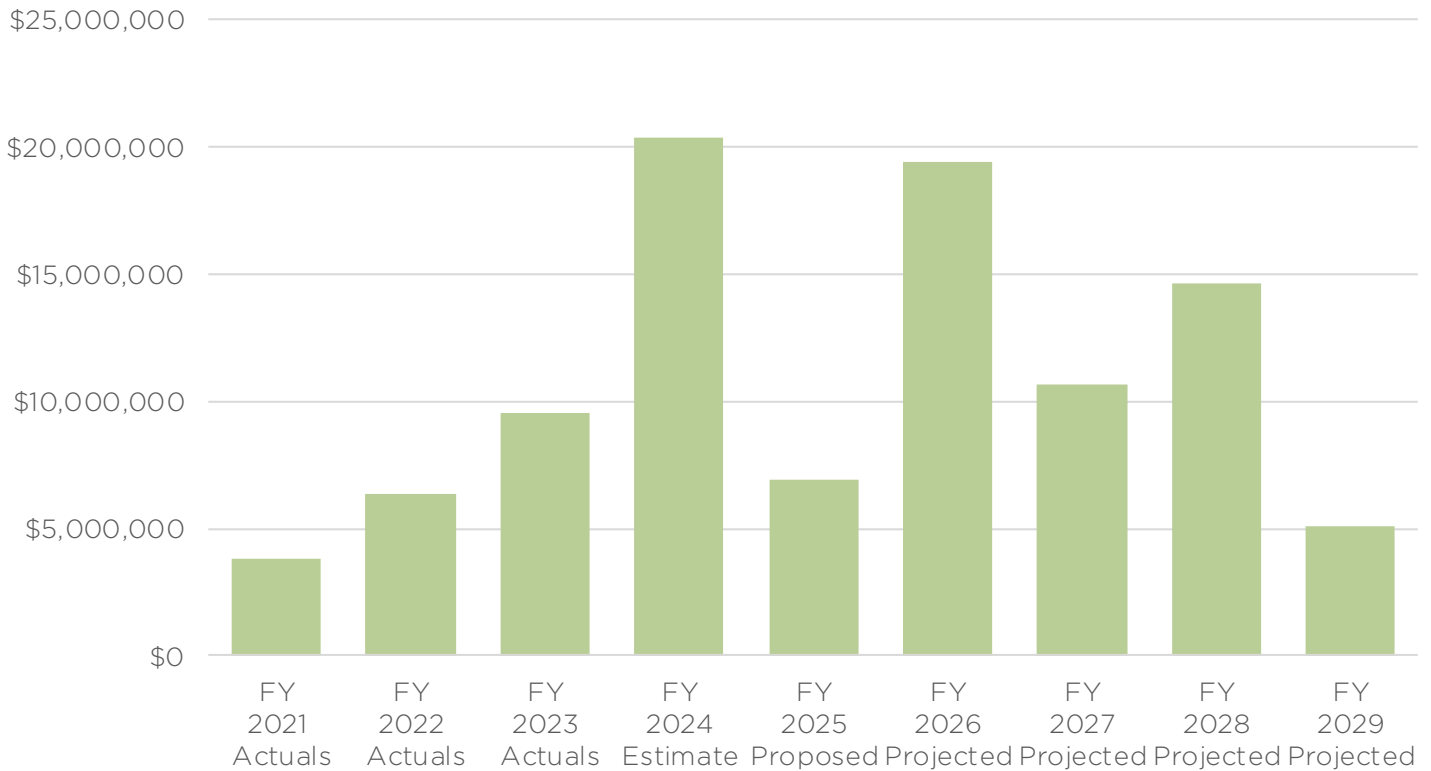
<b>Relationship to Comprehensive Plan</b>	<b>Potential Board/Commission Review:</b>
<b>Primary Connection</b>	
Element: Natural Environment	Planning and Transportation
Section: Water Resources	Commission
Goal: N-4	
Policy: N-4.16	
Program: N4.16.1	
<b>Environmental Impact Analysis:</b>	
This project has obtained Categorical Exemption under CEQA Section 15301.	

# WATER FUND

# Overview

The City of Palo Alto offers a full array of utility services to its citizens and businesses. The municipal Water Distribution System began operation in 1896 and continues to provide safe, reliable, and cost-effective water service to residents and customers of Palo Alto. For the 2025-2029 Capital Improvement Program (CIP), approximately \$56.7 million is projected, with \$6.9 million allocated in Fiscal Year 2025. Overall, a total of 12 projects are planned for the 5-year CIP.

## Water Fund Expenditures



Major projects funded in the 2025-2029 CIP include Water Main Replacements (cumulative total of \$21.4 million), Water Tank Seismic Upgrade and Rehabilitation (\$16.2 million), Water System Customer Connections (\$5.20 million), Water Meters (\$1.9 million) and Water, Gas, and Wastewater Utility GIS Data (\$2.8 million). The budget for the Water Fund CIP is categorized into three types of projects: Customer Connections, System Improvements, and Water Main Replacements.

## Infrastructure Inventory

CLASSIFICATION	QUANTITY
Miles of water main	231.17
Number of wells	1 active standby and 7 emergency standby
Number of reservoirs	3 steel and 4 reinforced concrete



## Water Distribution System Main Materials

MATERIAL	TIME	TOTAL LENGTH	PERCENT
Asbestos Cement Pipe		127.33 mi	55.09%
Concrete Cylinder Pipe		16.79 mi	7.3%
Cast Iron Pipe		17.87 mi	7.7%
Copper Pipe		0.28 mi	0.12%
Ductile Iron Pipe		4.63 mi	2.00%
Polyethylene		22.25 mi	9.63%
Polyvinyl Chloride		40.87 mi	17.87%
Steel		0.73 mi	0.32%
Unknown Material		0.40 mi	0.17%
Total:		231.17 mi	

## Customer Connections

As customers continually change their water needs due to equipment additions, new construction, building expansions, building remodels, teardowns and rebuilds, and new building occupancy types, the water system must evolve to meet these needs. The Water System Customer Connections is the only project in this category and includes work required to meet the needs of customers who have applied for new or upgraded water service. The Water Fund pays for a portion of this project, while remaining costs are supported by reimbursements from customers for project work performed by the City.

### Recent Accomplishments

- In Fiscal Year 2023 the Water Utility completed approximately 21 water service projects at a cost of \$0.4 million.

## 2025-2029 Capital Improvement Program

### Recurring Projects

The Water System Customer Connections is the only project within this category. Over the course of the 2025-2029 CIP, \$5.2 million is programmed, with \$1.0 million allocated in Fiscal Year 2025.

## System Improvements

To ensure reliable water services for the City of Palo Alto’s residents and customers, infrastructure must be replaced at the end of its expected life. The System Improvements category includes seven projects as part of the 2025-2029 CIP at a total cost of \$30.1 million, with \$5.5 million allocated in Fiscal Year 2025.

### Recent Accomplishments

- The Two Turnouts (a.k.a. water receiving stations) Project (WS-07000) will be completed in April 2024. The work at California Avenue turnout includes a seismic retrofit of the facility, replacement of all piping, electrical and SCADA upgrades, adding roof access from street, drainage improvements, and lead paint removal. Page Mill turnout work to restrain a valve to remove an unsafe condition to operators working in the vault was completed

# WATER FUND

## 2025-2029 Capital Improvement Program

### Recurring Projects

A total of \$13.9 million is programmed for System Improvement recurring projects during the 2025-2029 CIP, with \$5.2 million allocated in Fiscal Year 2025. Recurring projects in this category include the following:

- Water Distribution System Improvements (Fiscal Year 2025: \$0.5 million; 5-Year CIP: \$1.6 million)
- Water General Equipment/Tools (Fiscal Year 2025: \$0.05 million; 5-Year CIP: \$0.3 million)
- Water, Gas, Wastewater Utility GIS Data (Fiscal Year 2025: \$0.5 million; 5-Year CIP: \$2.8 million)
- Water Meters (Fiscal Year 2025: \$0.4 million; 5-Year CIP: \$1.9 million)
- Water Service Hydrant Replacement (Fiscal Year 2025: \$0.4 million; 5-Year CIP: \$2.2 million)
- Water System Supply Improvements (Fiscal Year 2025: \$3.5 million; 5-Year CIP: \$5.0 million)

### Non-Recurring Projects

A total of \$16.2 million is programmed for non-recurring projects during the 2025-2029 CIP, with \$0.3 million allocated in Fiscal Year 2025. Non-recurring projects in this category include the following:

- Water Tank Seismic Water System Upgrades (Fiscal Year 2025: \$0.3 million; 5-Year CIP: \$16.2million)

## Water Main Replacements

The Water Main Replacements category accounts for the replacement of inadequately sized and structurally deficient water mains. In the next five years, it is estimated that approximately 3 miles of water mains will be replaced. Work is scheduled based on the replacement schedule of water and wastewater construction every even year and gas construction every odd year to reduce the amount of construction when prices are high and allow staff to draft and prepare plans for construction in subsequent years.

A recent study indicated that the City has already replaced many of the most leak-prone and deteriorated pipes through the past water main replacement projects 1 through 26. This study identified 11.6 miles of mains that are deteriorating or are in liquefaction zones, which will be addressed through future replacement projects. Upcoming water main replacement projects will continue to target replacement of deteriorating and seismically vulnerable pipes.

### Recent Accomplishments

- Completed construction of Water Main Replacement Project 28 (WS-14001) and replaced approximately 13,700 linear feet of water main pipelines in various locations throughout the City.
- Completed design of Water Main Replacement Project 29 (WS-15002) to replace approximately 8,000 linear feet of water main pipelines in Evergreen Park and Ventura neighborhoods, as well as in the California Business District. The construction of this project started in November 2023 and the anticipated completion is in August 2024.
- Completed construction of the Water Regulation Station Improvement Project (WS-07000) and completed the seismic rehabilitation of two underground vaults. This concludes the Water Regulations Station Improvement project, which improved a total of 14 underground vaults and two above-ground water regulation facility locations.

## 2025-2029 Capital Improvement Program

### Non-Recurring Projects

The 2025-2029 CIP includes \$21.4 million in funding for the three projects within this category, with \$0.4 million appropriated for Fiscal Year 2025. The Utilities Department coordinates with the Public Works Depart-

ment’s street maintenance projects to minimize impact to the streets that have been recently paved when replacing water mains.

## Water Fund

Project Number	Project Title	FY 2024 Budget	FY 2024 Estimate	FY 2025 Proposed	FY 2026	FY 2027	FY 2028	FY 2029	5-Year Total
<b>SOURCE OF FUNDS</b>									
<b>Other</b>									
WS-80013	Water System Customer Connections	1,100,000	1,100,000	1,128,500	1,140,100	1,152,000	1,118,000	1,118,000	5,656,600
<b>Other Total</b>		<b>\$1,100,000</b>	<b>\$1,100,000</b>	<b>\$1,128,500</b>	<b>\$1,140,100</b>	<b>\$1,152,000</b>	<b>\$1,118,000</b>	<b>\$1,118,000</b>	<b>\$5,656,600</b>
<b>Transfer from Gas Fund</b>									
WS-02014	Water, Gas, Wastewater Utility GIS Data	171,100	171,100	176,300	181,000	186,400	194,000	200,000	937,700
<b>Transfer from Gas Fund Total</b>		<b>\$171,100</b>	<b>\$171,100</b>	<b>\$176,300</b>	<b>\$181,000</b>	<b>\$186,400</b>	<b>\$194,000</b>	<b>\$200,000</b>	<b>\$937,700</b>
<b>Transfer from Wastewater Collection Fund</b>									
WS-02014	Water, Gas, Wastewater Utility GIS Data	171,100	171,100	176,300	181,000	186,400	194,000	200,000	937,700
<b>Transfer from Wastewater Collection Fund Total</b>		<b>\$171,100</b>	<b>\$171,100</b>	<b>\$176,300</b>	<b>\$181,000</b>	<b>\$186,400</b>	<b>\$194,000</b>	<b>\$200,000</b>	<b>\$937,700</b>
<b>Total Sources</b>		<b>\$1,442,200</b>	<b>\$1,442,200</b>	<b>\$1,481,100</b>	<b>\$1,502,100</b>	<b>\$1,524,800</b>	<b>\$1,506,000</b>	<b>\$1,518,000</b>	<b>\$7,532,000</b>
<b>USE OF FUNDS</b>									
<b>Customer Connections</b>									
WS-80013	Water System Customer Connections	1,072,157	1,072,157	960,500	989,000	1,018,700	1,100,000	1,100,000	5,168,200
<b>Customer Connections Total</b>		<b>\$1,072,157</b>	<b>\$1,072,157</b>	<b>\$960,500</b>	<b>\$989,000</b>	<b>\$1,018,700</b>	<b>\$1,100,000</b>	<b>\$1,100,000</b>	<b>\$5,168,200</b>
<b>Main Replacements</b>									
WS-14001	Water Main Replacement - Project 28	1,792,989	1,792,989	0	0	0	0	0	0
WS-15002	Water Main Replacement - Project 29	9,105,861	9,105,861	0	0	0	0	0	0
WS-16001	Water Main Replacement - Project 30	425,000	425,000	425,000	8,959,000	0	0	0	9,384,000
WS-19001	Water Main Replacement - Project 31	0	0	0	447,950	472,140	9,952,696	0	10,872,786
WS-20000	Water Main Replacement - Project 32	0	0	0	0	0	485,035	682,207	1,167,242
<b>Main Replacements Total</b>		<b>\$11,323,850</b>	<b>\$11,323,850</b>	<b>\$425,000</b>	<b>\$9,406,950</b>	<b>\$472,140</b>	<b>\$10,437,731</b>	<b>\$682,207</b>	<b>\$21,424,028</b>
<b>System Improvements</b>									
WS-11003	Water Distribution System Improvements	769,768	769,768	305,000	314,000	323,000	335,000	345,000	1,622,000
WS-13002	Water General Equipment/Tools	50,000	50,000	50,000	50,000	50,000	50,000	50,000	250,000
WS-80015	Water Meters	2,100,340	2,100,340	367,440	342,270	407,130	404,930	427,630	1,949,400
WS-07001	Water Recycling Facilities	391,000	391,000	0	0	0	0	0	0

# WATER FUND

## Water Fund *(Continued)*

Project Number	Project Title	FY 2024 Budget	FY 2024 Estimate	FY 2025 Proposed	FY 2026	FY 2027	FY 2028	FY 2029	5-Year Total
<b>WS-07000</b>	Water Regulation Station Improvements	1,257,059	1,257,059	0	0	0	0	0	0
<b>WS-80014</b>	Water Service and Hydrant Replacement	400,000	400,000	412,000	424,000	437,000	450,000	464,000	2,187,000
<b>WS-11004</b>	Water System Supply Improvements	3,616,440	799,440	3,532,000	366,000	377,000	390,000	402,000	5,067,000
<b>WS-09000</b>	Water Tank Seismic Upgrade and Rehabilitation	8,019,938	1,199,999	300,000	7,000,000	7,000,000	900,000	1,000,000	16,200,000
<b>WS-02014</b>	Water, Gas, Wastewater Utility GIS Data	1,021,055	1,021,055	528,800	544,000	560,000	583,000	600,000	2,815,800
<b>System Improvements Total</b>		<b>\$17,625,600</b>	<b>\$7,988,661</b>	<b>\$5,495,240</b>	<b>\$9,040,270</b>	<b>\$9,154,130</b>	<b>\$3,112,930</b>	<b>\$3,288,630</b>	<b>\$30,091,200</b>
<b>Total Uses</b>		<b>\$30,021,607</b>	<b>\$20,384,668</b>	<b>\$6,880,740</b>	<b>\$19,436,220</b>	<b>\$10,644,970</b>	<b>\$14,650,661</b>	<b>\$5,070,837</b>	<b>\$56,683,428</b>

# Customer Connections



**Fund:** Water Fund  
**Category:** Customer Connections  
**Project Location:** Various locations  
**Managing Department:** Utilities  
**Initial Project Start:** Recurring  
**Initial Project Completion:** Recurring  
**Revised Project Start:** N/A  
**Revised Project Completion:** N/A  
**Project Number:** WS-80013

Installation of 8" HDPE pipe by directional drilling method

# Water System Customer Connections

## Description

This project allows for improvements that include new main extensions, valves, domestic services, meters on upgraded services, backflow devices, fire services, and fire hydrants.

## Justification

System extensions are required to provide service to new customers and to serve existing customers requesting expanded service.

## Supplemental Information

Budget amounts requested for work covered by this project are based on historical expenditures and revenues, and growth projections. The Water Fund pays for a portion of these projects while remaining costs are supported by reimbursements from customers for project work performed by the City.

## Significant Changes

**2024-2028 CIP:** Project revenues adjusted to align with prior year actuals and known planned new construction.

**2022-2026 CIP:** Project expense and revenues adjusted to align with prior year actuals and known planned new construction.

**2015-2019 CIP:** This project was previously titled Water System Extensions. As part of the FY 2015 budget, it was re-titled to more accurately reflect the work done with this funding.

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Other</b>	N/A	1,100,000	1,100,000	1,128,500	1,140,100	1,152,000	1,118,000	1,118,000	5,656,600	0	N/A
<b>Water Fund</b>	N/A	(27,843)	(27,843)	(168,000)	(151,100)	(133,300)	(18,000)	(18,000)	(488,400)	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$1,072,157</b>	<b>\$1,072,157</b>	<b>\$960,500</b>	<b>\$989,000</b>	<b>\$1,018,700</b>	<b>\$1,100,000</b>	<b>\$1,100,000</b>	<b>\$5,168,200</b>	<b>\$0</b>	<b>N/A</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Construction</b>	N/A	1,072,157	1,072,157	960,500	989,000	1,018,700	1,100,000	1,100,000	5,168,200	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$1,072,157</b>	<b>\$1,072,157</b>	<b>\$960,500</b>	<b>\$989,000</b>	<b>\$1,018,700</b>	<b>\$1,100,000</b>	<b>\$1,100,000</b>	<b>\$5,168,200</b>	<b>\$0</b>	<b>N/A</b>

### Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

**Relationship to Comprehensive Plan  
Primary Connection**

Element: Natural Environment  
 Section: Water Resources  
 Goal: N-4  
 Policy: N-4.1  
 Program: N4.13.2

**Potential Board/Commission Review:**

Planning and Transportation  
 Commission  
 Utilities Advisory Commission

**Environmental Impact Analysis:**

This project is expected to have a possible exemption from CEQA under Section 15302.



CITY OF  
**PALO  
ALTO**



# Main Replacements



HDPE pipe waiting to be fused

**Fund:** Water Fund  
**Category:** Main Replacements  
**Managing Department:** Utilities  
**Initial Project Start:** Summer 2019  
**Initial Project Completion:** Winter 2021  
**Revised Project Start:** Summer 2024  
**Revised Project Completion:** Spring 2026  
**Project Number:** WS-16001

# Water Main Replacement - Project 30

## Description

This project will fund the replacement of structurally deficient water mains and appurtenances in Fiscal Year 2026. Mains are selected by researching the maintenance history of the system and identifying those that are undersized, corroded, and subject to breaks. The project scope includes approximately 8,000 linear feet (which represents 0.6 percent of the City's Water Distribution System) of mains and services on various streets within the City, including areas in Midtown, Charleston Terrace, Ventura, and University Park neighborhoods.

## Justification

Some mains are inadequate in size to supply required flows and pressures for fire protection, some are located in areas of high liquefaction, and others are subject to recurring breaks.

## Supplemental Information

Each year the projects are re-evaluated and the highest priority is given to the most deteriorated portions of the system. Linear footage and locations are subject to change; please refer to the City of Palo Alto Utilities webpage to confirm project details.

## Significant Changes

**2025-2029 CIP:** Project increased by \$0.5 million for a total project cost of \$9.3 million due to cost escalation.

**2020-2024 CIP:** City staff has proposed a new replacement schedule of completing a water, gas and wastewater construction project every other year instead of annually to reduce the amount of construction when prices are high. In the last few years there have been fewer bidders and higher prices on construction projects due to the increased demand for construction services. The project increased by 2,600 linear footage and the overall cost increased to \$9.4 million to account for escalating construction costs.

**2018-2022 CIP:** Due to delays of WMR 26 - 29, the project design and construction is postponed to FY 2021 and FY 2022 respectively.

### Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Water Fund</b>	0	425,000	425,000	425,000	8,959,000	0	0	0	9,384,000	0	9,809,000
<b>Total</b>	<b>\$0</b>	<b>\$425,000</b>	<b>\$425,000</b>	<b>\$425,000</b>	<b>\$8,959,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$9,384,000</b>	<b>\$0</b>	<b>\$9,809,000</b>

### Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Construction</b>	0	0	0	29,650	8,959,000	0	0	0	8,988,650	0	8,988,650
<b>Design</b>	0	425,000	425,000	395,350	0	0	0	0	395,350	0	820,350
<b>Total</b>	<b>\$0</b>	<b>\$425,000</b>	<b>\$425,000</b>	<b>\$425,000</b>	<b>\$8,959,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$9,384,000</b>	<b>\$0</b>	<b>\$9,809,000</b>

### Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

<p><b>Relationship to Comprehensive Plan</b>  <b>Primary Connection</b></p> <p>Element: Natural Environment                  Section: Water Resources                  Goal: N-4                  Policy: N-4.1                  Program: N4.13.2</p> <p><b>Environmental Impact Analysis:</b>                  This project is expected to have a possible exemption from CEQA under Section 15302.</p>	<p><b>Potential Board/Commission Review:</b></p> <p>Planning and Transportation                  Commission                  Utilities Advisory Commission</p>
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**Fund:** Water Fund  
**Category:** Main Replacements  
**Project Location:** Various Locations  
**Managing Department:** Utilities  
**Initial Project Start:** Summer 2020  
**Initial Project Completion:** Winter 2022  
**Revised Project Start:** Summer 2026  
**Revised Project Completion:** Spring 2028  
**Project Number:** WS-19001

Installed 16" HDPE pipe waiting to be backfilled

# Water Main Replacement - Project 31

## Description

This project will fund the replacement of structurally deficient water mains and appurtenances in Fiscal Year 2028. Mains are selected by researching the maintenance history of the system and identifying those that are undersized, corroded, and subject to breaks. The project scope includes approximately 8,000 linear feet (which represents 0.6 percent of the City's Water Distribution System) of mains and services on various streets within the City, including areas in the Duveneck, Old Palo Alto, and Midtown neighborhoods.

## Justification

Some mains are inadequate in size to supply required flows and pressures for fire protection, some are located in areas of high liquefaction, and others are subject to recurring breaks.

## Supplemental Information

Each year the projects are re-evaluated and the highest priority is given to the most deteriorated portions of the system. Linear footage and locations are subject to change; please refer to the City of Palo Alto Utilities webpage to confirm project details.

## Significant Changes

**2025-2029 CIP:** Project increased by \$1.5 million for a total project cost of \$10.9 million due to cost escalation.

**2023-2027 CIP:** Design dollars programmed in FY 2027 split for soil testing to begin in FY 2026, design in FY 2027. This provides adequate time to assess the areas designated for main and lateral replacements.

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Water Fund</b>	0	0	0	0	447,950	472,140	9,952,696	0	10,872,786	0	10,872,786
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$447,950</b>	<b>\$472,140</b>	<b>\$9,952,696</b>	<b>\$0</b>	<b>\$10,872,786</b>	<b>\$0</b>	<b>\$10,872,786</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Construction</b>	0	0	0	0	0	0	9,952,696	0	9,952,696	0	9,952,696
<b>Design</b>	0	0	0	0	447,950	472,140	0	0	920,090	0	920,090
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$447,950</b>	<b>\$472,140</b>	<b>\$9,952,696</b>	<b>\$0</b>	<b>\$10,872,786</b>	<b>\$0</b>	<b>\$10,872,786</b>

### Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

**Relationship to Comprehensive Plan  
Primary Connection**

Element: Natural Environment  
 Section: Water Resources  
 Goal: N-4  
 Policy: N-4.1  
 Program: N4.13.2

**Potential Board/Commission Review:**

Planning and Transportation  
 Commission  
 Utilities Advisory Commission

**Environmental Impact Analysis:**

This project is expected to have a possible exemption from CEQA under Section 15302.



**Fund:** Water Fund  
**Category:** Main Replacements  
**Project Location:** Various Locations  
**Managing Department:** Utilities  
**Initial Project Start:** Summer 2023  
**Initial Project Completion:** Fall 2024  
**Revised Project Start:** Fall 2027  
**Revised Project Completion:** Spring 2030  
**Project Number:** WS-20000

Old Water Main being Replaced

# Water Main Replacement - Project 32

## Description

This project will fund the design and replacement of structurally deficient water mains and appurtenances in Fiscal Years 2028 and 2030. Mains are selected by researching the maintenance history of the system and identifying those that are undersized, corroded, and subject to breaks. The project scope will include approximately 15,000 to 25,000 linear feet of mains and services on various streets within the City.

## Justification

Some mains are inadequate in size to supply required flows and pressures for fire protection, and others are subject to recurring breaks.

## Significant Changes

**2025-2029 CIP:** Project increased by \$2.8 million for a total project cost of \$12.2 million due to cost escalation.

**2024-2028 CIP:** Funding added to FY 2027 to begin preliminary design and compaction testing ahead of construction.

**2020-2024 CIP:** City staff has proposed a new replacement schedule of completing a water, gas and wastewater construction project every other year instead of annually to reduce the amount of construction when prices are high. In the last few years there have been fewer bidders and higher prices on construction projects due to the increased demand for construction services. The total project cost increased to \$9.4 million to account for escalating construction costs.

**2019-2023 CIP:** Project established.

### Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Water Fund</b>	0	0	0	0	0	0	485,035	682,207	1,167,242	11,056,610	12,223,852
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$485,035</b>	<b>\$682,207</b>	<b>\$1,167,242</b>	<b>\$11,056,610</b>	<b>\$12,223,852</b>

### Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Construction</b>	0	0	0	0	0	0	49,160	682,207	731,367	11,056,610	11,787,977
<b>Design</b>	0	0	0	0	0	0	435,875	0	435,875	0	435,875
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$485,035</b>	<b>\$682,207</b>	<b>\$1,167,242</b>	<b>\$11,056,610</b>	<b>\$12,223,852</b>

### Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

<p><b>Relationship to Comprehensive Plan</b>  <b>Primary Connection</b></p> <p>Element: Natural Environment                  Section: Water Resources                  Goal: N-4                  Policy: N-4.1                  Program: N4.13.2</p> <p><b>Environmental Impact Analysis:</b>                  This project is expected to have a possible exemption from CEQA under Section 15302.</p>	<p><b>Potential Board/Commission Review:</b></p> <p>Planning and Transportation Commission                  Utilities Advisory Commission</p>
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# System Improvements

# WATER FUND



**Fund:** Water Fund  
**Category:** System Improvements  
**Project Location:** Various locations  
**Managing Department:** Utilities  
**Initial Project Start:** Recurring  
**Initial Project Completion:** Recurring  
**Revised Project Start:** N/A  
**Revised Project Completion:** N/A  
**Project Number:** WS-11003

Installation of a new fire hydrant with FlowGuard fire hydrant check valve

## Water Distribution System Improvements

### Description

This project provides funds to improve Water Distribution System deliverability and reliability. Typical activities include: installing restraining joints at critical pipelines and bridge crossings, increasing the size of inadequate facilities, system leakage surveys, network modeling, and fire flow studies or other system improvements as required.

### Justification

Water Distribution System reliability and adequate capacity are critical to providing a high level of service to customers in Palo Alto. Continuous evaluation of system needs and making required improvements are necessary to maintain adequate quantities of quality water, that meets local, state, and federal safe drinking water standards.

### Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Water Fund</b>	N/A	769,768	769,768	305,000	314,000	323,000	335,000	345,000	1,622,000	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$769,768</b>	<b>\$769,768</b>	<b>\$305,000</b>	<b>\$314,000</b>	<b>\$323,000</b>	<b>\$335,000</b>	<b>\$345,000</b>	<b>\$1,622,000</b>	<b>\$0</b>	<b>N/A</b>

### Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Construction</b>	N/A	766,140	766,140	305,000	314,000	323,000	335,000	345,000	1,622,000	0	N/A

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Design	N/A	3,628	3,628	0	0	0	0	0	0	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$769,768</b>	<b>\$769,768</b>	<b>\$305,000</b>	<b>\$314,000</b>	<b>\$323,000</b>	<b>\$335,000</b>	<b>\$345,000</b>	<b>\$1,622,000</b>	<b>\$0</b>	<b>N/A</b>

### Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

<p><b>Relationship to Comprehensive Plan</b>  <b>Primary Connection</b></p> <p>Element: Natural Environment                  Section: Water Resources                  Goal: N-4                  Policy: N-4.1                  Program: N4.13.2</p> <p><b>Environmental Impact Analysis:</b>                  This project is expected to have a possible exemption from CEQA under Section 15302.</p>	<p><b>Potential Board/Commission Review:</b></p> <p>Planning and Transportation Commission                  Utilities Advisory Commission</p>
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# WATER FUND



**Fund:** Water Fund  
**Category:** System Improvements  
**Project Location:** Various locations  
**Managing Department:** Utilities  
**Initial Project Start:** Recurring  
**Initial Project Completion:** Recurring  
**Revised Project Start:** N/A  
**Revised Project Completion:** N/A  
**Project Number:** WS-13002

16" HDPE pipe being fused prior to installation

## Water General Equipment/Tools

### Description

This funding allows for the acquisition of new equipment and tools, replacement of existing fusion equipment, and other associated tools and equipment to operate, maintain and construct the water distribution and transmission system. The fusion equipment is used to fuse together pipe joints in the City's Water Distribution System.

### Justification

As equipment ages, the quality of the fusion joints begins to decline, and the operators must spend more time scraping, aligning, and fusing construction joints. In order to maintain high quality standards for the installation of the City's water distribution mains, along with the associated service standards and worker safety and productivity measures, equipment and tools are required to be upgraded on an annual basis.

### Significant Changes

**2022-2026 CIP:** The budget was increased with one-time funding of \$50,000 for FY 2022 to replace testing equipment at the sampling stations.

**2015-2019 CIP:** Project was retitled from Water Fusion and General Equipment/Tools.

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Water Fund	N/A	50,000	50,000	50,000	50,000	50,000	50,000	50,000	250,000	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$50,000</b>	<b>\$50,000</b>	<b>\$50,000</b>	<b>\$50,000</b>	<b>\$50,000</b>	<b>\$50,000</b>	<b>\$50,000</b>	<b>\$250,000</b>	<b>\$0</b>	<b>N/A</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Construction</b>	N/A	50,000	50,000	50,000	50,000	50,000	50,000	50,000	250,000	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$50,000</b>	<b>\$50,000</b>	<b>\$50,000</b>	<b>\$50,000</b>	<b>\$50,000</b>	<b>\$50,000</b>	<b>\$50,000</b>	<b>\$250,000</b>	<b>\$0</b>	<b>N/A</b>

### Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

<p><b>Relationship to Comprehensive Plan</b>  <b>Primary Connection</b></p> <p>Element: Natural Environment                  Section: Water Resources                  Goal: N-4                  Policy: N-4.1                  Program: N4.13.2</p> <p><b>Environmental Impact Analysis:</b>                  This project is expected to have a possible exemption from CEQA under Section 15302.</p>	<p><b>Potential Board/Commission Review:</b></p> <p>Planning and Transportation                  Commission                  Utilities Advisory Commission</p>
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## WATER FUND



**Fund:** Water Fund  
**Category:** System Improvements  
**Project Location:** Various locations  
**Managing Department:** Utilities  
**Initial Project Start:** Recurring  
**Initial Project Completion:** Recurring  
**Revised Project Start:** N/A  
**Revised Project Completion:** N/A  
**Project Number:** WS-80015

5/8" Badger water meter

# Water Meters

## Description

This funding allows for the purchase of meters for new customers, upgrading meters for current customers, installing meter bypasses, and replacing obsolete meters that are no longer repairable. This funding also allows for annual testing and calibration of select meters.

## Justification

This project will maintain meter accuracy, reliability, and stock meter equipment and replacement parts. Meter replacements enhance information on system water volume; align the Utility's ten-year meter testing and replacement cycle in accordance with industry-standard best management practices; and provide accurate data for the Water Utility billing system.

## Significant Changes

**2024-2028 CIP:** Funding of approximately \$0.9 million moved from FY 2025, FY2026, and FY 2027 (\$0.3 million each year) into FY 2024 to replace over 8,000 meters at one time.

**2021-2025 CIP:** The Advanced Metering Infrastructure (AMI) Project is expected to replace up to 9,000 water meters to install meters that are compatible with a smart grid system that collects usage information remotely. The remaining meters will be assessed for their compatibility with the AMI smart grid and will either be retro-fitted or replaced.

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Water Fund</b>	N/A	2,100,340	2,100,340	367,440	342,270	407,130	404,930	427,630	1,949,400	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$2,100,340</b>	<b>\$2,100,340</b>	<b>\$367,440</b>	<b>\$342,270</b>	<b>\$407,130</b>	<b>\$404,930</b>	<b>\$427,630</b>	<b>\$1,949,400</b>	<b>\$0</b>	<b>N/A</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Construction</b>	N/A	2,100,340	2,100,340	367,440	342,270	407,130	404,930	427,630	1,949,400	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$2,100,340</b>	<b>\$2,100,340</b>	<b>\$367,440</b>	<b>\$342,270</b>	<b>\$407,130</b>	<b>\$404,930</b>	<b>\$427,630</b>	<b>\$1,949,400</b>	<b>\$0</b>	<b>N/A</b>

### Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

<p><b>Relationship to Comprehensive Plan</b>  <b>Primary Connection</b></p> <p>Element: Natural Environment                  Section: Water Resources                  Goal: N-4                  Policy: N-4.1                  Program: N4.13.2</p> <p><b>Environmental Impact Analysis:</b>                  This project is expected to have a possible exemption from CEQA under Section 15302.</p>	<p><b>Potential Board/Commission Review:</b></p> <p>Planning and Transportation Commission                  Utilities Advisory Commission</p>
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# WATER FUND



**Fund:** Water Fund  
**Category:** System Improvements  
**Project Location:** Various locations  
**Managing Department:** Utilities  
**Initial Project Start:** Recurring  
**Initial Project Completion:** Recurring  
**Revised Project Start:** N/A  
**Revised Project Completion:** N/A  
**Project Number:** WS-80014

Newly installed fire hydrant service line and assembly on Greenwood Avenue

## Water Service and Hydrant Replacement

### Description

This project replaces system control valves, deteriorated galvanized service lines, lead goosenecks, and fire hydrant valves and assemblies needed for Fire Department flow testing; upgrades fire hydrants in main replacement project areas; and replaces existing undersized or deteriorated copper water services. Upgrading hydrants and system control valves is consistent with fire protection policies.

### Justification

In order to maintain a high water quality standard for Palo Alto's water supplies, it is necessary to replace old, lead, galvanized, and corroded copper water service lines.

### Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Water Fund</b>	N/A	400,000	400,000	412,000	424,000	437,000	450,000	464,000	2,187,000	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$400,000</b>	<b>\$400,000</b>	<b>\$412,000</b>	<b>\$424,000</b>	<b>\$437,000</b>	<b>\$450,000</b>	<b>\$464,000</b>	<b>\$2,187,000</b>	<b>\$0</b>	<b>N/A</b>

### Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Construction</b>	N/A	400,000	400,000	412,000	424,000	437,000	450,000	464,000	2,187,000	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$400,000</b>	<b>\$400,000</b>	<b>\$412,000</b>	<b>\$424,000</b>	<b>\$437,000</b>	<b>\$450,000</b>	<b>\$464,000</b>	<b>\$2,187,000</b>	<b>\$0</b>	<b>N/A</b>



**Operating Impact**

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

<p><b>Relationship to Comprehensive Plan Primary Connection</b></p>	<p><b>Potential Board/Commission Review:</b></p>
<p>Element: Natural Environment Section: Water Resources Goal: N-4 Policy: N-4.1 Program: N4.13.2</p>	<p>Planning and Transportation Commission Utilities Advisory Commission</p>
<p><b>Environmental Impact Analysis:</b> This project is expected to have a possible exemption from CEQA under Section 15302.</p>	

## WATER FUND



**Fund:** Water Fund  
**Category:** System Improvements  
**Project Location:** Various locations  
**Managing Department:** Utilities  
**Initial Project Start:** Recurring  
**Initial Project Completion:** Recurring  
**Revised Project Start:** N/A  
**Revised Project Completion:** N/A  
**Project Number:** WS-11004

Installation of 8" HDPE pipe and valve between two main connection points on El Camino Real at El Camino Way

# Water System Supply Improvements

## Description

This project provides funding to improve the City's Water Distribution System, which connects facilities between the City's and the San Francisco Public Utility Commission's pipelines, emergency water wells within the City, pumping stations, and water reservoirs.

## Justification

It is critical that the City has an adequate supply of water that meets federal and state drinking water requirements. To meet these objectives, the City must continually evaluate the system and make improvements as needed.

## Supplemental Information

Typical activities performed under this project include: piping modifications, equipment replacements associated with water delivery, Supervisory Control software upgrades, system modifications for water system quality compliance, implementation of an asset management system, conditional assessment of the reliability of transmission mains, and security system installations.

## Significant Changes

**2024-2028 CIP:** Projects to install additional security cameras at various water facilities and additional generators at foothill pump stations have been delayed to FY2024 due to competing project priorities from WMR 28 (WS-14001), WMR 29 (WS-15002), Water Regulation Station Improvement (WS-07000), and Water Tank Seismic Upgrade (WS-09000) projects.

**2023-2027 CIP:** In addition to the \$0.2 million annually programmed for small projects, approximately \$1.0 million in additional one-time funding is programmed in FY 2023 to replace existing cameras at reservoir tanks and pump stations with more current devices with higher-resolution video and current cyber security features.

An additional \$2.0 million in one-time funding is also programmed in FY 2023 to add generators to Dahl and Park Booster Stations (located in the foothill system) at several of the emergency wells and turnouts. These improvements ensure the City can safely and consistently deliver drinking water to its customers and maintain sufficient storage for firefighting and emergency use during an extended power outage.

**2021-2025 CIP:** Supervisory control and data acquisition (SCADA) router and firewall components are in the process of being upgraded. One-time budget increases of approximately \$350,000 in FY 2021 and FY 2025 are for upgrading the Programmable Logic Controllers (PLCs) computers that control the equipment in the system.

### Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Water Fund</b>	N/A	3,616,440	799,440	3,532,000	366,000	377,000	390,000	402,000	5,067,000	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$3,616,440</b>	<b>\$799,440</b>	<b>\$3,532,000</b>	<b>\$366,000</b>	<b>\$377,000</b>	<b>\$390,000</b>	<b>\$402,000</b>	<b>\$5,067,000</b>	<b>\$0</b>	<b>N/A</b>

### Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Construction</b>	N/A	3,616,440	799,440	3,532,000	366,000	377,000	390,000	402,000	5,067,000	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$3,616,440</b>	<b>\$799,440</b>	<b>\$3,532,000</b>	<b>\$366,000</b>	<b>\$377,000</b>	<b>\$390,000</b>	<b>\$402,000</b>	<b>\$5,067,000</b>	<b>\$0</b>	<b>N/A</b>

### Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

<p><b>Relationship to Comprehensive Plan</b>  <b>Primary Connection</b></p> <p>Element: Natural Environment                  Section: Water Resources                  Goal: N-4                  Policy: N-4.1                  Program: N4.13.2</p> <p><b>Environmental Impact Analysis:</b>                  This project is expected to have a possible exemption from CEQA under Section 15302.</p>	<p><b>Potential Board/Commission Review:</b></p> <p>Planning and Transportation                  Commission                  Utilities Advisory Commission</p>
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**Fund:** Water Fund  
**Category:** System Improvements  
**Project Location:** Various locations  
**Managing Department:** Utilities  
**Initial Project Start:** Spring 2014  
**Initial Project Completion:** Winter 2017  
**Revised Project Start:** Spring 2021  
**Revised Project Completion:** Fall 2028  
**Project Number:** WS-09000

Seismic Upgrade, Boronda Reservoir, December 2014

# Water Tank Seismic Upgrade and Rehabilitation

## Description

This project will provide tank rehabilitation, seismic upgrades, and/or tank replacement structural reinforcement for the Corte Madera, Park, Boronda, and Dahl reservoirs to improve earthquake resistance in compliance with the American Society of Civil Engineers (ASCE 7) seismic codes. Work at the reservoir sites will also include the installation of: new seismic shut off valves between the reservoirs and valve vaults, new plug valves, piping and pipe supports in the valve vaults, and recoating of the interior and exterior reservoir walls.

## Justification

Palo Alto's water tanks have no protection from water loss in a seismic event. If an earthquake causes a significant water leak, various impacts such as loss of water for fire fighting purposes, loss of water storage for drinking, property damage from flooding or mudslides, and environmental damages could occur. The seismic protection systems will preserve potable water after a seismic event. Additionally, during the seismic upgrade of the Montebello reservoir the structural condition of the tank required significant repair, which is now anticipated in the remaining three tanks constructed in a similar time period.

## Significant Changes

**2025-2029 CIP:** Funding from FY 2024 will be returned to reserves and appropriated in FY2027 and FY2028. This will give staff time to complete a full study at Dahl Reservoir to determine replacement or rehabilitation of the reservoir.

**2024-2028 CIP:** Funding of \$0.9 million programmed in FY 2028 to perform inspections at Mayfield, Boronda, Montebello and El Camino Park to assess rehabilitation work required. Park Reservoir condition was assessed in April 2023, and a report with recommendations on replacement versus rehabilitation will be forthcoming.

Design and construction for the Park Reservoir are now planned to start in FY 2024 with construction complete in FY 2025.

**2023-2027 CIP:** Funding is programmed for the replacement of Park Reservoir and Dahl Reservoir with construction planned for FY 2023 and FY 2026 respectively. Funding in FY 2024, FY 2025, and FY 2027 are planned for project preparation before construction year and project close out activities such as inspections and punch list items.

**2022-2026 CIP:** The design and build contract was issued in FY 2021. Although staff estimated \$5.0 million to replace each reservoir, the bid proposals received pushed the costs to approximately \$7.0 million. With anticipated work at Dahl and Park Reservoirs, which are structurally similar, an additional \$3.0 million was added in FY 2023 and \$7.0 million in FY 2026 to align with proposals received.

**2021-2025 CIP:** The Corte Madera reservoir is in the process of being replaced using the Design-Build method. Construction is anticipated to start in FY 2021. Staff is currently evaluating the plan for both Dahl and Park Reservoirs. These reservoirs will need to be replaced in the future at their current locations or at a location that improves the reliability and resiliency of the system. The budget for FY 2023 was increased to cover the replacement of Dahl Reservoir. Park Reservoir will follow in FY 2026.

**2019-2023 CIP:** Project was retitled from "Seismic Water System Upgrade". Budget has also increased to account for scope changes and construction cost escalation.

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Other</b>	4,463	0	0	0	0	0	0	0	0	0	4,463
<b>Water Fund</b>	9,411,766	8,019,939	1,200,000	300,000	7,000,000	7,000,000	900,000	1,000,000	16,200,000	0	26,811,766
<b>Total</b>	<b>\$9,416,229</b>	<b>\$8,019,939</b>	<b>\$1,200,000</b>	<b>\$300,000</b>	<b>\$7,000,000</b>	<b>\$7,000,000</b>	<b>\$900,000</b>	<b>\$1,000,000</b>	<b>\$16,200,000</b>	<b>\$0</b>	<b>\$26,816,229</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Construction</b>	8,585,098	8,019,938	1,199,999	300,000	7,000,000	7,000,000	900,000	1,000,000	16,200,000	0	25,985,097
<b>Design</b>	831,102	0	0	0	0	0	0	0	0	0	831,102
<b>Total</b>	<b>\$9,416,200</b>	<b>\$8,019,938</b>	<b>\$1,199,999</b>	<b>\$300,000</b>	<b>\$7,000,000</b>	<b>\$7,000,000</b>	<b>\$900,000</b>	<b>\$1,000,000</b>	<b>\$16,200,000</b>	<b>\$0</b>	<b>\$26,816,199</b>

### Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

# WATER FUND

**Relationship to Comprehensive Plan  
Primary Connection**

Element: Natural Environment  
Section: Water Resources  
Goal: N-4  
Policy: N-4.1  
Program: N4.13.2

**Potential Board/Commission Review:**

Planning and Transportation  
Commission  
Utilities Advisory Commission

**Environmental Impact Analysis:**

This project is expected to have a possible exemption from CEQA under Section 15302.



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**Fund:** Water Fund  
**Category:** System Improvements  
**Project Location:** Software maintenance & update  
**Managing Department:** Utilities  
**Initial Project Start:** Recurring  
**Initial Project Completion:** Recurring  
**Revised Project Start:** N/A  
**Revised Project Completion:** N/A  
**Project Number:** WS-02014

Staff collecting data for GIS system

# Water, Gas, Wastewater Utility GIS Data

## Description

This project covers the annual maintenance and support contract to improve the ability for Utilities Department staff to use the Geographic Information System (GIS). As with other GIS activities, continuing the completion of data-related tasks is the primary emphasis. Field personnel still need accurate paper maps in the field, therefore standard map books will continue to be produced to meet their specific needs. Funding is also included to improve the GIS user interface to better serve the unique requirements of Utility Department users, as well as collecting GPS survey data to be used to update utility information in the GIS database to increase its accuracy.

## Justification

The GIS program is used for interfacing with modeling software to perform engineering analysis and master planning, develop and prioritize cost-effective capital improvement designs, and asset management of the City's utility enterprise system to enhance the level of service to utility customers.

## Significant Changes

**2020-2024 CIP:** The City will transition to a new GIS platform in FY 2020. Remaining FY 2019 funds are being reappropriated to fund the conversion activities required to bring the maps to the new platform.



## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Transfer from Gas Fund	N/A	171,100	171,100	176,300	181,000	186,400	194,000	200,000	937,700	0	N/A
Transfer from Wastewater Collection Fund	N/A	171,100	171,100	176,300	181,000	186,400	194,000	200,000	937,700	0	N/A
Water Fund	N/A	678,855	678,855	176,200	182,000	187,200	195,000	200,000	940,400	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$1,021,055</b>	<b>\$1,021,055</b>	<b>\$528,800</b>	<b>\$544,000</b>	<b>\$560,000</b>	<b>\$583,000</b>	<b>\$600,000</b>	<b>\$2,815,800</b>	<b>\$0</b>	<b>N/A</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Construction	N/A	745,400	745,400	528,800	544,000	560,000	583,000	600,000	2,815,800	0	N/A
Design	N/A	275,655	275,655	0	0	0	0	0	0	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$1,021,055</b>	<b>\$1,021,055</b>	<b>\$528,800</b>	<b>\$544,000</b>	<b>\$560,000</b>	<b>\$583,000</b>	<b>\$600,000</b>	<b>\$2,815,800</b>	<b>\$0</b>	<b>N/A</b>

### Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

<p><b>Relationship to Comprehensive Plan Primary Connection</b></p> <p>Element: Community Services &amp; Facilities                  Section: Efficient and Effective Service Delivery                  Goal: C-1                  Policy: C-1.3                  Program: C1.3.1</p>	<p><b>Potential Board/Commission Review:</b></p> <p>Planning and Transportation Commission                  Utilities Advisory Commission</p>
<p><b>Environmental Impact Analysis:</b>                  This project is expected to have a possible exemption from CEQA under Section 15301.</p>	



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# INTERNAL SERVICE FUND PROJECTS





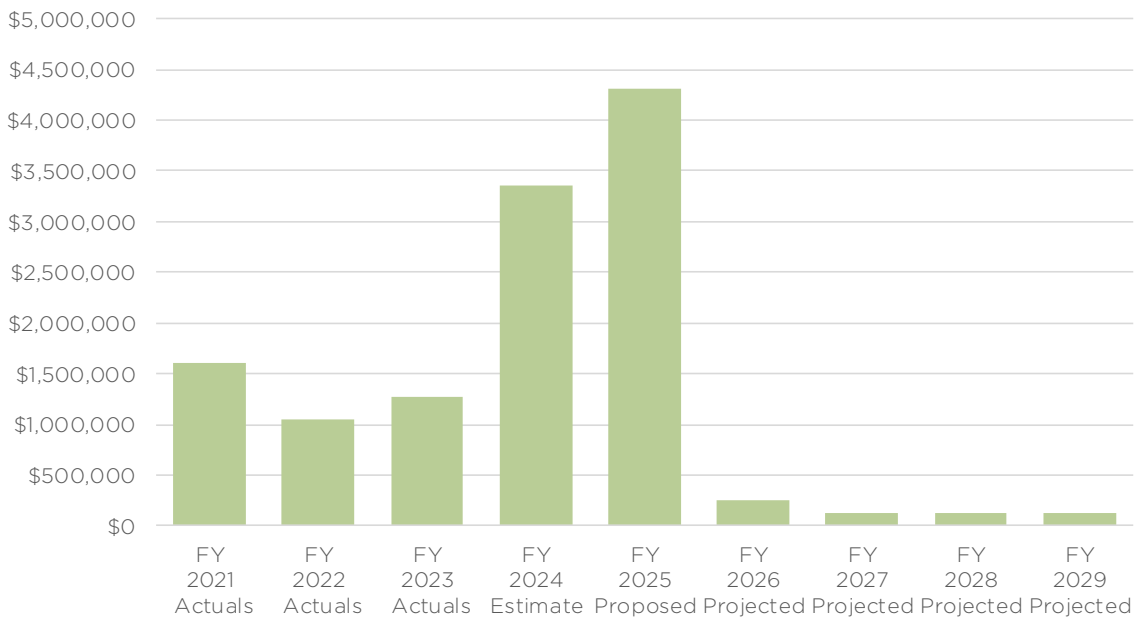
CITY OF  
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# TECHNOLOGY FUND

# Overview

The Technology Fund accounts for expenses associated with citywide Information Technology activities. Technology Fund capital projects enhance service delivery to the community and to City staff through the delivery and implementation of Information Technology infrastructure. It is important to note that all expenditures in the Technology Fund are reimbursed by transfers from the other City funds benefiting from the services and purchases incurred in the Technology Fund. Overall, a total of seven capital projects are programmed over the five-year Capital Improvement Program (CIP). The projects outlined in the capital program represent only a small subset of the total number of technology projects delivered to the City, as most technology projects are funded through the operating budget and do not meet the criteria of a capital project. Please refer to the Information Technology Department section of the Operating Budget for additional information. The budget for the Technology Fund Capital Improvement Program is accounted for in two separate categories: Citywide Technology Upgrades and Improvements, and Department Technology Upgrades and Improvements.

## Technology Fund Expenditures



## Citywide Technology Upgrades and Improvements

The Citywide Technology Upgrades category includes projects that benefit multiple City departments. They tend to have a larger scope than projects for individual departments and thus entail more coordination and complexity. For the 2025-2029 Capital Improvement Program, \$4.2 million is allocated within this category with approximately \$2.6 million reappropriated from Fiscal Year 2024 to complete projects already in process.

**Recent Accomplishments:**

- Several enhancements have been completed and rolled-out for the Enterprise Resource Planning (ERP) Phase 2 project such as the rollout of the self-service HR Open Enrollment activities, updated vendor management reporting and, fund management reporting.
- The Facility Condition Assessment and the Electrification Assessment are near completion which will allow for a new Citywide Capital Planning software in the Infrastructure Management System Project (TE-13004).

**2025-2029 Capital Improvement Program****Non-Recurring Projects:**

- Enterprise Resource Planning (ERP) Upgrade: The original scope of this project was to upgrade the existing ERP system to better meet the City's needs. Phase I of the ERP replacement was completed in FY 2022, and Phase II is underway and is anticipated to be complete in Summer 2025 (Fiscal Year 2025: \$1.0 million).
- City Council Chambers Upgrade: This project will upgrade the necessary audio visual equipment in Council Chambers as the equipment in place now is unsupported and outdated. This project will also bring the identified Americans with Disabilities Act (ADA) components to compliance (Fiscal Year 2025: \$1.8 million).
- Infrastructure Management System: This project will procure and implement a new electronic facility plan record management system (Fiscal Year 2025: \$0.1 million; 5-Year CIP: \$0.2 million).
- IT Data Center Upgrade: This project that work on a server consolidation plan for the IT assets currently residing at the City Hall datacenters and reducing the IT footprint (Fiscal Year 2025: \$1.0 million; 5-Year CIP).
- Radio Infrastructure Replacement: This project allowed for the replacement of various items in the City's radio infrastructure inventory. This project is slated to close in Fiscal Year 2025. Remaining funding will be used for a radio tower. (Fiscal Year 2025: \$0.3 million).

**Department Technology Upgrades and Improvements**

The Department Technology Upgrades and Improvements category includes projects that benefit one or a limited number of City departments. For the 2025-2029 Capital Improvement Program, \$0.7 million is programmed within this category, with no reappropriations.

**Recent Accomplishments:**

- Request for Proposal has been released for the new Computer Aided Dispatch system. Vendor selection and contract execution is underway, with implementation taking place in FY 2025.
- Further MyCPAU customer portal updates such as the single sign-on interface with WaterSmart and On-Bill Financing have been made to improve customer experience.

**2025-2029 Capital Improvement Program****Recurring Projects:**

The 2025-2029 CIP includes one recurring project within this category:

- Utilities Customer Bill System Improvements: This project allows for enhancements to the Utilities Billing system particularly in response to new legislative, regulatory, and security requirements. This project will continue to be recurring until the upgrade of the ERP and replacement of the Utilities Billing system is completed. After the systems are implemented, the project will be reevaluated to determine if recurring funding is required (Fiscal Year 2025: \$0.2 million; 5-Year CIP: \$0.7 million).

# TECHNOLOGY FUND

Project Number	Project Title	FY 2024 Budget	FY 2024 Estimate	FY 2025 Proposed	FY 2026	FY 2027	FY 2028	FY 2029	5-Year Total
<b>SOURCE OF FUNDS</b>									
<b>Transfer from Airport Fund</b>									
TE-13004	Infrastructure Management System	1,500	1,500	0	0	0	0	0	0
<b>Transfer from Airport Fund Total</b>		<b>\$1,500</b>	<b>\$1,500</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
<b>Transfer from Capital Improvement Fund</b>									
TE-13004	Infrastructure Management System	0	0	50,000	50,000	25,000	25,000	25,000	175,000
<b>Transfer from Capital Improvement Fund Total</b>		<b>\$0</b>	<b>\$0</b>	<b>\$50,000</b>	<b>\$50,000</b>	<b>\$25,000</b>	<b>\$25,000</b>	<b>\$25,000</b>	<b>\$175,000</b>
<b>Transfer from Refuse Fund</b>									
TE-10001	Utilities Customer Bill System Improvements	11,500	11,500	11,500	11,500	11,500	11,500	11,500	57,500
<b>Transfer from Refuse Fund Total</b>		<b>\$11,500</b>	<b>\$11,500</b>	<b>\$11,500</b>	<b>\$11,500</b>	<b>\$11,500</b>	<b>\$11,500</b>	<b>\$11,500</b>	<b>\$57,500</b>
<b>Transfer from Stormwater Management Fund</b>									
TE-13004	Infrastructure Management System	7,600	7,600	0	0	0	0	0	0
TE-10001	Utilities Customer Bill System Improvements	2,600	2,600	2,600	2,600	2,600	2,600	2,600	13,000
<b>Transfer from Stormwater Management Fund Total</b>		<b>\$10,200</b>	<b>\$10,200</b>	<b>\$2,600</b>	<b>\$2,600</b>	<b>\$2,600</b>	<b>\$2,600</b>	<b>\$2,600</b>	<b>\$13,000</b>
<b>Transfer from Utilities Administration Fund</b>									
TE-13004	Infrastructure Management System	107,200	107,200	0	0	0	0	0	0
TE-10001	Utilities Customer Bill System Improvements	188,900	188,900	185,900	185,900	85,900	85,900	85,900	629,500
<b>Transfer from Utilities Administration Fund Total</b>		<b>\$296,100</b>	<b>\$296,100</b>	<b>\$185,900</b>	<b>\$185,900</b>	<b>\$85,900</b>	<b>\$85,900</b>	<b>\$85,900</b>	<b>\$629,500</b>
<b>Transfer from Vehicle Replacement and Maintenance</b>									
TE-13004	Infrastructure Management System	7,400	7,400	0	0	0	0	0	0
<b>Transfer from Vehicle Replacement and Maintenance Total</b>		<b>\$7,400</b>	<b>\$7,400</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
<b>Transfer from Wastewater Treatment Fund</b>									
TE-13004	Infrastructure Management System	16,400	16,400	0	0	0	0	0	0
<b>Transfer from Wastewater Treatment Fund Total</b>		<b>\$16,400</b>	<b>\$16,400</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
<b>Total Sources</b>		<b>\$343,100</b>	<b>\$343,100</b>	<b>\$250,000</b>	<b>\$250,000</b>	<b>\$125,000</b>	<b>\$125,000</b>	<b>\$125,000</b>	<b>\$875,000</b>

## USE OF FUNDS

### Citywide Technology Upgrades and Improvements

TE-19001	City Council Chambers Upgrade	1,770,910	0	1,770,910	0	0	0	0	1,770,910
TE-19000	Enterprise Resource Planning Upgrade	2,073,204	1,542,584	1,030,620	0	0	0	0	1,030,620
TE-13004	Infrastructure Management System	439,601	439,601	50,000	50,000	25,000	25,000	25,000	175,000
TE-25000	IT Data Center Upgrade	0	0	1,000,000	0	0	0	0	1,000,000



# TECHNOLOGY FUND

(Continued)

Project Number	Project Title	FY 2024 Budget	FY 2024 Estimate	FY 2025 Proposed	FY 2026	FY 2027	FY 2028	FY 2029	5-Year Total
<b>TE-05000</b>	Radio Infrastructure Replacement	259,900	0	259,900	0	0	0	0	259,900
<b>Citywide Technology Upgrades and Improvements Total</b>		<b>\$4,543,615</b>	<b>\$1,982,185</b>	<b>\$4,111,430</b>	<b>\$50,000</b>	<b>\$25,000</b>	<b>\$25,000</b>	<b>\$25,000</b>	<b>\$4,236,430</b>
<b>Department Technology Upgrades and Improvements</b>									
<b>TE-23000</b>	Computer Aided Dispatch (CAD) Upgrade	650,000	650,000	0	0	0	0	0	0
<b>TE-12001</b>	Development Center Blueprint Technology Enhancements	78,219	78,219	0	0	0	0	0	0
<b>TE-10001</b>	Utilities Customer Bill System Improvements	638,141	638,141	200,000	200,000	100,000	100,000	100,000	700,000
<b>Department Technology Upgrades and Improvements Total</b>		<b>\$1,366,360</b>	<b>\$1,366,360</b>	<b>\$200,000</b>	<b>\$200,000</b>	<b>\$100,000</b>	<b>\$100,000</b>	<b>\$100,000</b>	<b>\$700,000</b>
<b>Total Uses</b>		<b>\$5,909,975</b>	<b>\$3,348,545</b>	<b>\$4,311,430</b>	<b>\$250,000</b>	<b>\$125,000</b>	<b>\$125,000</b>	<b>\$125,000</b>	<b>\$4,936,430</b>



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# Citywide Technology Upgrades and Improvements



**Fund:** Technology Fund  
**Category:** Citywide Technology Upgrades and Improvements  
**Project Location:** City Hall  
**Managing Department:** Information Technology  
**Initial Project Start:** Summer 2019  
**Initial Project Completion:** Summer 2022  
**Revised Project Start:** N/A  
**Revised Project Completion:** Summer 2025  
**Project Number:** TE-19001

City Council Chambers

# City Council Chambers Upgrade

## Description

Funding will be used to upgrade outdated electronic equipment that has become unsupported in City Council Chambers. This will help address technical issues and ensure compliance with Americans with Disabilities Act (ADA) requirements. This project will:

- Replace and upgrade outdated audio/visual equipment to bring City Council Chambers in compliance with ADA requirements
- Upgrade the City Council Chambers broadcast booth, overhead display equipment, and dais equipment (including a supportable voting system)
- Bring the broadcast booth in the City Council Chambers in compliance with ADA and State regulations
- Obtain adequate support, maintenance, and warranty for all equipment
- Integrate the City Hall Lobby Video Wall, Community Meeting Room, and Council Conference Room with new City Council Chambers equipment to enable viewing and/or broadcasting

## Justification

Most of the electronic equipment in the City Council Chambers is obsolete and unsupported. The City's recent ADA transition plan update identified accessibility deficiencies in the City Council Chambers. The broadcast booth contains some equipment with expired warranties, unused equipment, and cabling that is not well managed. These issues pose potential hazards for the broadcasting operators. The broadcast booth also lacks back-up power supplies, which could hinder broadcasting and recording of the session. The rear projected overhead display is not clear, presents dissimilar sizes, and can only display two inputs. These issues unnecessarily hinder the City Clerks' administrative function during Council meetings. The existing voting system has been deemed unsupported and unrepairable by electricians and could stop functioning at any time.

# TECHNOLOGY FUND

The broadcast booth is not currently integrated with the upgraded equipment that has been installed in the Community Meeting Room, Council Conference Room, Flexible Training Room, and several library meeting rooms, which prevents the City from fully utilizing the new capabilities and functionality this upgraded equipment offers.

## Significant Changes

**2025-2029 CIP:** In FY 2024, staff resumed working on refining the scope of work and requirements for this project. Work is anticipated to be completed in FY 2025.

**2024-2028 CIP:** In FY 2024, staff will resume working on refining the scope of work and requirements. Based on the outcome of the refined requirements, staff will prepare and issue an RFP.

**2023-2027 CIP:** Due to the ongoing COVID-19 pandemic, project has been delayed. Staff will resume working on the upgrade in FY 2023 and further review or refine the current scope.

**2022-2026 CIP:** Staff will resume working on the upgrade in FY 2022 and further review or refine the current scope.

**2021-2025 CIP:** This project will be temporarily on hold in the wake of COVID-19, which requires the scope of this project to be re-imagined for needs such as social distancing and virtual flexibility. The majority of funding for this project comes from restricted funds.

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Technology Fund</b>	(930,977)	1,770,910	0	1,770,910	0	0	0	0	1,770,910	0	839,933
<b>Transfer from Airport Fund</b>	9,700	0	0	0	0	0	0	0	0	0	9,700
<b>Transfer from Print &amp; Mail Fund</b>	9,600	0	0	0	0	0	0	0	0	0	9,600
<b>Transfer from Refuse Fund</b>	60,700	0	0	0	0	0	0	0	0	0	60,700
<b>Transfer From Stormwater Management Fund</b>	39,200	0	0	0	0	0	0	0	0	0	39,200
<b>Transfer from Utilities Administration Fund</b>	607,000	0	0	0	0	0	0	0	0	0	607,000
<b>Transfer from Vehicle Replacement and Maintenance</b>	67,700	0	0	0	0	0	0	0	0	0	67,700
<b>Transfer from Wastewater Treatment Fund</b>	170,100	0	0	0	0	0	0	0	0	0	170,100
<b>Total</b>	<b>\$33,023</b>	<b>\$1,770,910</b>	<b>\$0</b>	<b>\$1,770,910</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,770,910</b>	<b>\$0</b>	<b>\$1,803,933</b>

# TECHNOLOGY FUND

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Construction</b>	13,306	1,770,910	0	1,770,910	0	0	0	0	1,770,910	0	1,784,216
<b>Design</b>	19,717	0	0	0	0	0	0	0	0	0	19,717
<b>Total</b>	<b>\$33,023</b>	<b>\$1,770,910</b>	<b>\$0</b>	<b>\$1,770,910</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,770,910</b>	<b>\$0</b>	<b>\$1,803,933</b>

### Operating Impact

Operating impacts have not been determined at this time. Estimates may become available after Request for Proposals are issued, and as these costs are quantified, adjustments will be brought forward in future budgets as necessary.

<p><b>Relationship to Comprehensive Plan</b>  <b>Primary Connection</b>          Element: Community Services &amp; Facilities          Section: Maintenance of Parks and Community Facilities          Goal: C-3          Policy: C-3.2</p>	<p><b>Potential Board/Commission Review:</b>          Planning and Transportation Commission</p>
<p><b>Environmental Impact Analysis:</b>          This project is expected to have a possible exemption from CEQA under Section 15301.</p>	



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## TECHNOLOGY FUND



**Fund:** Technology Fund

**Category:** Citywide Technology Upgrades and Improvements

**Project Location:** Various

**Managing Department:** Information Technology

**Initial Project Start:** Summer 2018

**Initial Project Completion:** Summer 2022

**Revised Project Start:** N/A

**Revised Project Completion:** Summer 2025

**Project Number:** TE-19000

### New Financial System

# Enterprise Resource Planning Upgrade

## Description

This project provides funding to upgrade the existing Enterprise Resource Planning (ERP) system to better meet the City's needs.

## Justification

The City's existing ERP system, SAP, was selected in 2002 with the purpose of integrating various business processes and moving towards electronic Government (eGovernment). In Fiscal Year 2003, the implementation of SAP's Enterprise Central Component (ECC 4.6C) core modules was completed and since then the City has used SAP to support Accounting, Finance, Purchasing, Project Management, Plant Maintenance, Budgeting, Payroll, Human Resource Management, and Service Order Management functions. In 2009, the City completed a major upgrade to SAP (ECC 6.0). The City also replaced the former utility billing system (Banner) with the implementation of SAP's Customer Relationship Management (CRM) Utilities Customer Electronic Services (also known as My Utilities Account customer portal) and Business Intelligence Systems (BI).

## Supplemental Information

With the upgrade, the City is able to benefit from a more user-friendly interface, mobile friendly workflows and timesheets, and faster and easier access to necessary operational reports enabling data driven decisions. Staff can anticipate tight integration with key external solutions such as Geographic Information System (GIS) Spatial Mapping solution, Smart Water Metering Technologies, and SAP Business Intelligence and reporting solution. While it is expected that all major Financial and Human Resource functions will be maintained within this upgraded SAP, many business processes will see improvements or changes to increase efficiency and improved controls.



**Significant Changes**

**2025-2029 CIP:** Phase II is underway with multiple projects completed and implemented with several more projects being worked on. Work will continue in FY 2025 and is anticipated to be completed in Summer 2025.

**2024-2028 CIP:** SAP Phase II is underway with multiple projects completed and implemented with several more projects being worked on. Total project costs have increased by approximately \$1.5 million (\$4.9 to \$6.4 million) from the prior 2023-2027 CIP Budget. Work will continue in FY 2024 and is anticipated to be completed in Summer 2025.

**2023-2027 CIP:** SAP Phase II scope has been identified and will begin at the end of FY 2022. Anticipated completion date of Phase II is during FY 2025.

**2022-2026 CIP:** The SAP upgrade has been completed for Phase I. The CIS upgrade remains on hold at this time. Remaining funds for FY 2022 will be used for Phase II of the SAP upgrade. Staff will come back and request funding for CIS as necessary.

**2021-2025 CIP:** The SAP upgrade is underway. The necessary licensing has been purchased for the contract with LSI, Inc to help the City upgrade the SAP system. Implementation for the SAP upgrade has started and is anticipated to be finished in FY 2021. However, the CIS upgrade will be temporarily on hold in the wake of COVID-19. Staff will further review the scope and current platform once the ERP upgrade has been completed.

**2020-2024 CIP:** After thorough consideration, it was determined that an upgrade to the current SAP environment would be more appropriate than a complete system replacement at this time. The request for proposal (RFP) was therefore canceled on November 14th, 2018 and the vendors were notified of the cancellation. An upgrade to the current SAP system will avoid the risks, costs, and management challenges associated with migration to a new ERP.

Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Technology Fund</b>	3,830,260	2,073,204	1,542,584	1,030,620	0	0	0	0	1,030,620	0	6,403,464
<b>Total</b>	<b>\$3,830,260</b>	<b>\$2,073,204</b>	<b>\$1,542,584</b>	<b>\$1,030,620</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,030,620</b>	<b>\$0</b>	<b>\$6,403,464</b>

Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Construction</b>	0	2,073,204	1,542,584	1,030,620	0	0	0	0	1,030,620	0	2,573,204
<b>Design</b>	3,830,260	0	0	0	0	0	0	0	0	0	3,830,260
<b>Total</b>	<b>\$3,830,260</b>	<b>\$2,073,204</b>	<b>\$1,542,584</b>	<b>\$1,030,620</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,030,620</b>	<b>\$0</b>	<b>\$6,403,464</b>

**Operating Impact**

Operating impacts from Phase II of this project have not been determined at this time. As these costs are quantified, adjustments will be brought forward in future budgets as necessary.

# TECHNOLOGY FUND

<b>Relationship to Comprehensive Plan Primary Connection</b>	<b>Potential Board/Commission Review:</b>
Element: Community Services & Facilities Section: Efficient and Effective Service Delivery Goal: C-1 Policy: C-1.3	Planning and Transportation Commission
<b>Environmental Impact Analysis:</b>	
This project is expected to have a possible exemption from CEQA under Section 15301.	



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**Fund:** Technology Fund  
**Category:** Citywide Technology Upgrades and Improvements  
**Project Location:** Various  
**Managing Department:** Information Technology  
**Initial Project Start:** Summer 2013  
**Initial Project Completion:** Summer 2014  
**Revised Project Start:** N/A  
**Revised Project Completion:** Fall 2029  
**Project Number:** TE-13004

### Infrastructure Management System

# Infrastructure Management System

## Description

This project established a Computerized Maintenance and Management System (CMMS) to maintain an up-to-date inventory of the City's infrastructure, its catch-up and keep-up needs, and available funding through Maintenance Connection in 2016 and provided funding for the Capital Planning software to forecast Capital improvement needs 30 years forward. This project also provides funding for a new Electronic Record Management System (ERMS) to serve as a single source repository to hold all record plans and related information on each facility in a easily searchable system to serve both employees and the general public through an online records search portal. These management tools will support ongoing staff and Council attention to infrastructure budgeting, planning, and accountability, and the systems will be integrated with the programs the City now uses to manage infrastructure and finance.

This project also includes the ability for Public Works staff to use the Geographic Information System (GIS) by continuing the completion of updating ESRI with as built backlogged since 2017, as well as shifting existing ROW linework to match utility data points to be used to update ROW asset information in the GIS database to increase its accuracy for future design.

## Justification

While establishing the IMS, it was determined that a new electronic facility plan RMS is needed to centrally store records, plans, and related information on each City facility. Currently, older records and plans are managed through a Microsoft Access Database, with limited search capabilities, and some records and plans are still only available as hardcopy sheets. The project will include scanning older hard copy sets and compiling all records into a new indexed system that will be easily accessible to all City Staff.

The GIS program is used for asset management inventory and mapping to meet the ongoing in house demands of the Infrastructure Management System (IMS) and to meet the needs of accurate inventory mapping to maintain APWA accreditation standards.

**Supplemental Information**

Based on the results of the needs assessment study, two software applications already in use by the City will be used to form an integrated IMS. One application will be used to maintain an asset inventory and to track maintenance and condition information, while the other will be used to schedule projected capital maintenance needs and to track catch-up and keep-up.

The ERMS project will scan, catalog, and archive documents in an open-format electronic database system that will allow staff to easily search, access, and retrieve all City facility records and plans.

**Significant Changes**

**2025-2029 CIP:** Staff began transitioning drawings in 2023 into the new GIS. Staff will continue the process of entering data into the new GIS. Work is also underway for a new Facilities Management software and Enterprise Document Management System.

**2024-2028 CIP:** All 5-years of funding is included in Fiscal Year 2024 to procure a new Electronic Record Management System (ERMS). An RFP will be issued in Fiscal Year 2024 for this new system.

**2023-2027 CIP:** The project scope and funding increased by approximately \$0.2 million to include a new electronic facility plan record management system in FY 2023.

**2022-2026 CIP:** Customization and configuration work was not able to be fully completed in FY 2021 due to the ongoing COVID-19 shelter in place. Funding to finalize the integration will be reappropriated to FY 2022 to complete the project.

**2021-2025 CIP:** Customization and configuration work was not able to be fully completed in FY 2020. Funding to finalize the integration will be reappropriated to FY 2021 to complete the project.

**2020-2024 CIP:** Additional work is required for the integrated Infrastructure Management System, such as further professional service hours required for customization and configuration for the two systems that have been identified as the integrated IMS. This CIP is anticipated to close at the end of FY 2020.

Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Technology Fund</b>	70,535	299,501	299,501	0	0	0	0	0	0	0	370,036
<b>Transfer from Airport Fund</b>	1,100	1,500	1,500	0	0	0	0	0	0	0	2,600
<b>Transfer from Capital Improvement Fund</b>	0	0	0	50,000	50,000	25,000	25,000	25,000	175,000	0	175,000

# TECHNOLOGY FUND

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Transfer From Stormwater Management Fund	5,300	7,600	7,600	0	0	0	0	0	0	0	12,900
Transfer from Utilities Administration Fund	107,800	107,200	107,200	0	0	0	0	0	0	0	215,000
Transfer from Vehicle Replacement and Maintenance	5,200	7,400	7,400	0	0	0	0	0	0	0	12,600
Transfer from Wastewater Treatment Fund	26,900	16,400	16,400	0	0	0	0	0	0	0	43,300
<b>Total</b>	<b>\$216,835</b>	<b>\$439,601</b>	<b>\$439,601</b>	<b>\$50,000</b>	<b>\$50,000</b>	<b>\$25,000</b>	<b>\$25,000</b>	<b>\$25,000</b>	<b>\$175,000</b>	<b>\$0</b>	<b>\$831,436</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Construction	193,806	439,601	439,601	50,000	50,000	25,000	25,000	25,000	175,000	0	808,407
Other	23,027	0	0	0	0	0	0	0	0	0	23,027
<b>Total</b>	<b>\$216,833</b>	<b>\$439,601</b>	<b>\$439,601</b>	<b>\$50,000</b>	<b>\$50,000</b>	<b>\$25,000</b>	<b>\$25,000</b>	<b>\$25,000</b>	<b>\$175,000</b>	<b>\$0</b>	<b>\$831,434</b>

### Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

<p><b>Relationship to Comprehensive Plan</b>  <b>Primary Connection</b></p> <p>Element: Land Use and Community Design          Section: Public Streets and Public Spaces          Goal: L-9          Policy: L-9.11          Program: L9.11.2</p> <p><b>Environmental Impact Analysis:</b>          This project is expected to have a possible exemption from CEQA under Section 15301.</p>	<p><b>Potential Board/Commission Review:</b></p> <p>Planning and Transportation Commission</p>
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CITY OF  
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# TECHNOLOGY FUND



**Fund:** Technology Fund  
**Category:** Citywide Technology Upgrades and Improvements  
**Managing Department:** Information Technology  
**Initial Project Start:** Summer 2024  
**Initial Project Completion:** Spring 2026  
**Revised Project Start:** N/A  
**Revised Project Completion:** N/A  
**Project Number:** TE-25000

IT Data Center

## IT Data Center Upgrade

### Description

This project will allow the Information Technology (IT) department to evaluate the City's onsite data center space requirements, and determine if the current data center space can be reduced and repurposed for other needs at City Hall.

### Justification

The IT department has been actively working on a server consolidation plan for the technology assets currently residing in the City Hall data center. Cloud storage and other technology upgrades allow the City to store data differently, so the full space currently dedicated the onsite data center is no longer needed. The goal of this project is to reduce the footprint by nearly 60% through alternate data center models with a focus on space reallocation.

### Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Technology Fund</b>	0	0	0	1,000,000	0	0	0	0	1,000,000	0	1,000,000
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,000,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,000,000</b>	<b>\$0</b>	<b>\$1,000,000</b>



### Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Construction</b>	0	0	0	1,000,000	0	0	0	0	1,000,000	0	1,000,000
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,000,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,000,000</b>	<b>\$0</b>	<b>\$1,000,000</b>

### Operating Impact

There are no additional operating impacts anticipated from this project. Any maintenance costs that arise will be absorbed within the available maintenance schedule and annual operating budget.

<p><b>Relationship to Comprehensive Plan</b>  <b>Primary Connection</b>                  Element: Community Services &amp; Facilities                  Section: Maintenance of Parks and Community Facilities                  Goal: C-3                  Policy: C-3.2</p>	<p><b>Potential Board/Commission Review:</b>                  Planning and Transportation Commission</p>
<p><b>Environmental Impact Analysis:</b>                  Possible exemption from CEQA under Section 15301</p>	



**Fund:** Technology Fund  
**Category:** Citywide Technology Upgrades and Improvements  
**Project Location:** Various  
**Managing Department:** Information Technology  
**Initial Project Start:** Recurring  
**Initial Project Completion:** Recurring  
**Revised Project Start:** N/A  
**Revised Project Completion:** Summer 2025  
**Project Number:** TE-05000

### Public Safety Radios

# Radio Infrastructure Replacement

## Description

This project provided funding for the transition from the City's legacy analog radio system to the new Silicon Valley Regional Communications System (SVRCS). The City is participated with 14 other local agencies in an effort organized by the Silicon Valley Regional Interoperability Authority (SVRIA) to move to a countywide 700 Mhz radio communication system. Upon completion of the project in FY 2025, law enforcement, fire and rescue service, emergency medical response, and disaster recovery units within the participating agencies were able to communicate via an integrated voice and data communications system. The remaining funding will be used fund a tower for radio communications.

## Justification

Within the region, the communications systems have been fragmented, but the new SVRCS provided interoperable communications compliant with Department of Homeland Security communications guidelines.

## Supplemental Information

This project is slated to close in FY 2025 after the contraction of the new communications tower.

## Significant Changes

**2025-2029 CIP:** Discussions are underway for the installation of the new radio tower at Montebello. The project is now anticipated to be completed in FY 2025.

**2024-2028 CIP:** The construction of the new public safety building has delayed this project due to staffing constraints. The project is now anticipated to be completed in FY 2024.

**2023-2027 CIP:** The tower for radio communications is currently pending site coordination with other departments and agencies, which is anticipated to take place in FY 2023.

**2022-2026 CIP:** Migration of the remaining City radios is now complete. The remaining funding will be used to fund a tower for radio communications.

**2021-2025 CIP:** Migration of the remaining City radios was not able to be fully completed in FY 2020. Funding to finalize this work will be reappropriated to FY 2021 to complete the migration.

**2020-2024 CIP:** The infrastructure for the West Cell (location of multiple transmit/receive sites) is close to complete. The City has installed all of the required consoles and base stations. Public Works and Utilities migrated to the new system in November of 2018 and Public Safety and the remaining City radio users will be on the new system in FY 2020.

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Technology Fund</b>	N/A	259,900	0	259,900	0	0	0	0	259,900	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$259,900</b>	<b>\$0</b>	<b>\$259,900</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$259,900</b>	<b>\$0</b>	<b>N/A</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Construction</b>	N/A	259,900	0	259,900	0	0	0	0	259,900	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$259,900</b>	<b>\$0</b>	<b>\$259,900</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$259,900</b>	<b>\$0</b>	<b>N/A</b>

## Operating Impact

City departments will fund the maintenance of their department's radios out of their respective departmental operating budgets.

<p><b>Relationship to Comprehensive Plan</b>  <b>Primary Connection</b></p> <p>Element: Community Services &amp; Facilities                  Section: Service to the Public                  Goal: C-2                  Policy: C-2.2</p> <p><b>Environmental Impact Analysis:</b>                  This project is expected to have a possible exemption from CEQA under Section 15301.</p>	<p><b>Potential Board/Commission Review:</b></p> <p>Planning and Transportation Commission                  Utilities Advisory Commission</p>
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# Department Technology Upgrades and Improvements



**Fund:** Technology Fund  
**Category:** Department Technology Upgrades and Improvements  
**Project Location:** Various  
**Managing Department:** Information Technology  
**Initial Project Start:** Recurring  
**Initial Project Completion:** Recurring  
**Revised Project Start:** N/A  
**Revised Project Completion:** N/A  
**Project Number:** TE-10001

## Utilities Customer Bill System Improvements

# Utilities Customer Bill System Improvements

### Description

This project provides regulatory enhancements and improved security for the Utilities Billing system. Through the implementation of this recurring project the Utilities Department will be responsive to new legislation and legal requirements. Securing customer sensitive information and complying with Payment Card Industry (PCI) data security standards will continue to be a priority as well.

### Justification

This project provides software system updates to meet mandatory security, regulatory, and governing requirements. This includes reviewing the various Meter-to-Cash business processes, the MyCPAU online customer portal, reporting tools, bill print software, and the Customer Relationship Management (CRM) solution for the Utilities Billing system. The Enterprise Funds share proportionately in the costs of this project.

### Significant Changes

**2025-2029 CIP:** Funding for this project in FY 2024 included enhancements to the Utilities billing portal for interval data and time-of-use rates. In the upcoming year, project funding is programmed for upgrading the over-the-counter payment platform and integration with Utilities Billing System.

**2024-2028 CIP:** Funding for this project increased by \$0.3 million to fund the contract renewal and enhancements, such as the integration to the Advanced Metering Infrastructure (AMI), over a three year term for the utilities account portal.

**2023-2027 CIP:** Funding for this project increased by approximately \$0.4 million in FY 2023 for numerous short and long term enhancements that are being developed to achieve maximum benefits in the MyCPAU customer portal. Planned for FY 2023 are the following: WaterSmart report, Clean Power Research, integration with the future AMI (Advanced Metering Infrastructure) system, other usability portal enhancements. In addition to the

## TECHNOLOGY FUND

enhancements to the MyCPAU portal, updates are required to the bill printing software. Lastly, funds will be used for any critical billing system enhancements for legislation and regulatory requirements.

**2022-2026 CIP:** The MyCPAU customer portal was integrated into the City's upgraded cloud based SAP ERP system in FY 2021. For FY 2022 through FY 2025, enhancements to MyCPAU continue including updates to portal pages/views and the integration to new third party energy efficiency portals. In addition, staff is planning for potential changes to the utilities invoice in order to accommodate upcoming programs (e.g. on-bill financing, ambulance subscription fee).

**2021-2025 CIP:** The customer portal went live to all customers in March 2020. In conjunction with the launch of MyCPAU, minor cosmetic enhancement to the utilities invoice were made including the update of the logo. Additional enhancements to the MyCPAU portal are planned for FY 2021 and FY 2022 including the integration of MyCPAU to the new third party energy efficiency portals.

**2020-2024 CIP:** Continuing replacement of the My Utilities Account (MUA) self-service customer portal, initiated in Summer 2017, to provide new online services and functionality. The design and implementation of the portal have taken longer than initially anticipated and the portal is now expected to be fully operational in Summer 2019.

**2019-2023 CIP:** Enhancements to the new customer portal will continue to allow for enhancements to the bill print software and Utilities Billing system, particularly in response to new legislative, regulatory, and security requirements.

**2018-2022 CIP:** A replacement of the MUA self-customer service portal is scheduled to be completed by Summer 2018 and will provide new online self-services and functionality.

### Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Technology Fund</b>	N/A	435,141	435,141	0	0	0	0	0	0	0	N/A
<b>Transfer from Refuse Fund</b>	N/A	11,500	11,500	11,500	11,500	11,500	11,500	11,500	57,500	0	N/A
<b>Transfer from Stormwater Management Fund</b>	N/A	2,600	2,600	2,600	2,600	2,600	2,600	2,600	13,000	0	N/A
<b>Transfer from Utilities Administration Fund</b>	N/A	188,900	188,900	185,900	185,900	85,900	85,900	85,900	629,500	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$638,141</b>	<b>\$638,141</b>	<b>\$200,000</b>	<b>\$200,000</b>	<b>\$100,000</b>	<b>\$100,000</b>	<b>\$100,000</b>	<b>\$700,000</b>	<b>\$0</b>	<b>N/A</b>

### Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Design</b>	N/A	638,141	638,141	200,000	200,000	100,000	100,000	100,000	700,000	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$638,141</b>	<b>\$638,141</b>	<b>\$200,000</b>	<b>\$200,000</b>	<b>\$100,000</b>	<b>\$100,000</b>	<b>\$100,000</b>	<b>\$700,000</b>	<b>\$0</b>	<b>N/A</b>

**Operating Impact**

There are no net additional operating impacts anticipated from this project. The maintenance cost of this new customer portal is commensurate to the old utilities account portal system.

<b>Relationship to Comprehensive Plan Primary Connection</b>	<b>Potential Board/Commission Review:</b>
Element: Community Services & Facilities Section: Service to the Public Goal: C-2 Policy: C-2.2	Planning and Transportation Commission Utilities Advisory Commission
<b>Environmental Impact Analysis:</b> This project is expected to have a possible exemption from CEQA under Section 15301.	



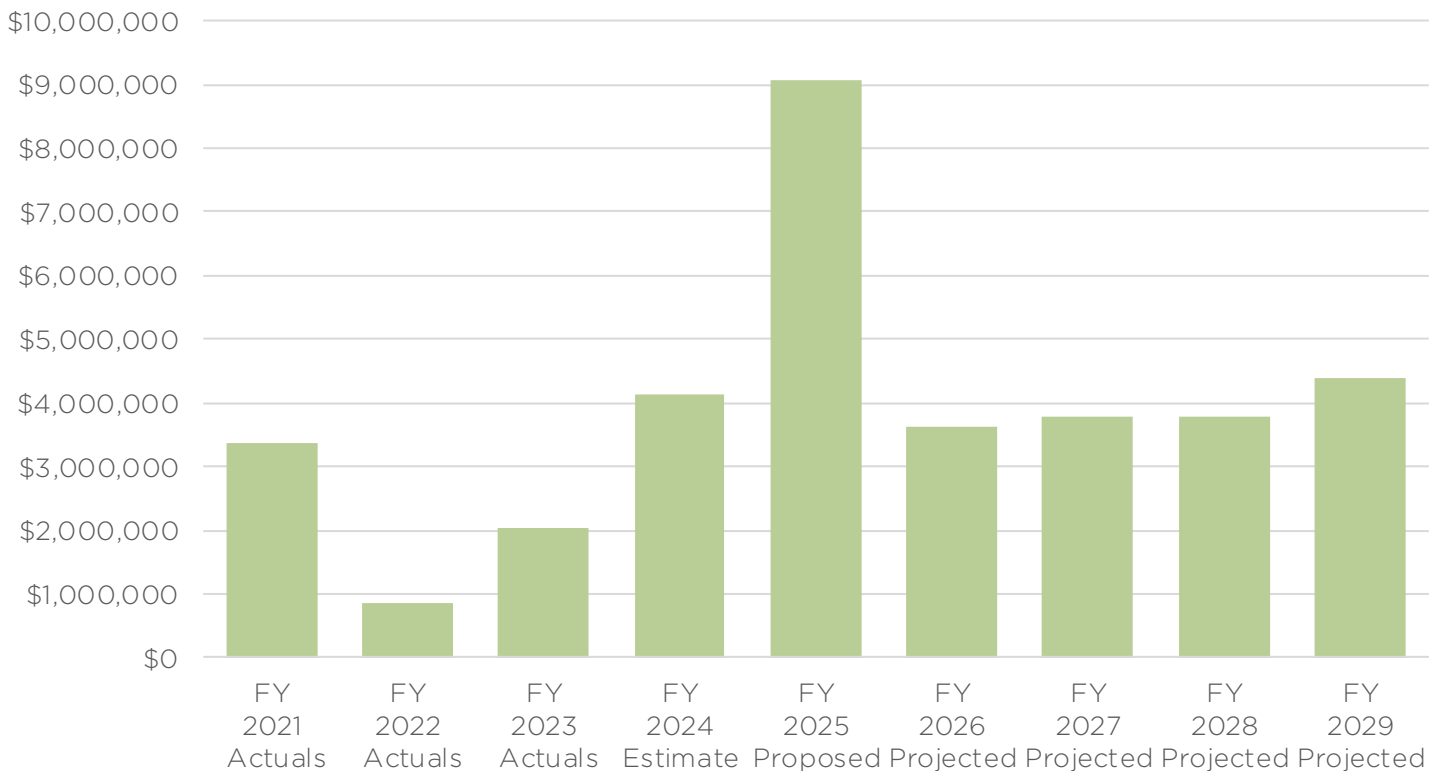
# VEHICLE REPLACEMENT AND MAINTENANCE FUND

# VEHICLE REPLACEMENT AND MAINTENANCE FUND

## Overview

Activities related to the replacement, maintenance, and operations of the City's fleet and equipment are accounted for within the Vehicle Replacement and Maintenance Fund (VRF). The VRF Capital Improvement Program (CIP) accounts for activities related to the replacement of the City's fleet and equipment, as well as the infrastructure necessary to operate and maintain the fleet and equipment. For detailed information on the maintenance and operation of the fleet, please refer to the Vehicle Replacement and Maintenance Fund section of the Operating Budget. Over the 2025-2029 CIP, approximately 26.2% of the fleet is programmed for replacement at a cost of \$24.6 million, with \$9.0 million allocated in Fiscal Year 2025. Of the \$9.0 million, \$5.3 million is recommended to be reappropriated for the continuation of projects approved by City Council in prior fiscal years. It is important to note that all expenditures in the fund are reimbursed by transfers from the funds benefiting from the services and purchases incurred in the fund. A total of nine capital projects are programmed over the five-year program. The budget for the VRF Capital Improvement Program is divided into two categories: Fleet Infrastructure Improvements and Vehicle and Equipment Replacement.

## Vehicle Replacement Fund Expenditures



## Fleet Infrastructure Improvements

The Fleet Infrastructure Improvements category accounts for the repair or improvement of existing systems or structures. Examples of projects previously funded in this category include fuel management software, diesel particulate filters required by Bay Area Air Quality Management District, and new fuel tanks. No projects are recommended in this category for the 2025-2029 CIP.

# VEHICLE REPLACEMENT AND MAINTENANCE FUND

## Vehicle and Equipment Replacement

The Vehicle and Equipment Replacement Category accounts for the purchase, repair, and replacement of vehicles/equipment. Over the projected life of the vehicle/equipment, funds are collected in the Vehicle Fund from the department/fund that will utilize the asset so funding will be available to replace the asset when it has reached the end of its useful life. When a vehicle or piece of equipment is estimated to meet replacement criteria and has been reviewed and approved for replacement by the Fleet Review Committee, it is programmed into the Vehicle and Equipment Replacement CIP that corresponds to the year the useful life of the vehicle/equipment will expire.

Key replacements in 2025-2029 CIP include:

- 9 pieces of equipment (\$0.3 million)
- 3 sedans (\$0.1 million)
- 12 vans/trucks (\$3.1 million)
- 2 patrol vehicles (\$0.2 million)
- 1 fire engine (\$1.9 million)

TYPE/GROSS VEHICLE WEIGHT (GVW)	UNLEADED	DIESEL	CNG	HYBRID	ELECTRIC	NO ENGINE TRAILER	TOTAL
Sedans/SUVs	26	-	15	10	6	-	57
Police marked units	27	-	-	-	-	-	27
Motorcycles	3	-	-	-	-	-	3
Scooters	4	-	-	-	-	-	4
Truck/Van Under 6k GVW	64	-	-	-	-	-	64
Truck/Van 6K-11K GVW	77	3	15	1	-	-	96
Trucks 11K-15K GVW	16	3	-	-	-	-	19
Trucks 15K-26K GVW	5	17	-	-	-	-	22
Dump Truck Under 11K GVW	17	16	-	-	-	-	33
Large Equip: Boom & crane trucks, aeri-als	-	14	-	-	-	-	14
Wildland patrol vehicles	3	-	-	-	-	-	3
Water truck/fuel truck	-	2	-	-	-	-	2
Fire seasonal/apparatus/ambulance	2	16	-	-	-	-	18
Sweepers	1	3	-	-	-	-	4
Backhoe, mowers, tractors, forklifts, rollers, air compressors, chippers, trailers	2	46	-	-	8	58	114
Asphalt rollers, water pumps, spray rigs	4	-	-	-	-	8	12
Generators, ditch witches, cable reelers	6	44	4	-	-	-	54
<b>TOTAL</b>	<b>257</b>	<b>164</b>	<b>34</b>	<b>11</b>	<b>14</b>	<b>66</b>	<b>546</b>

# VEHICLE REPLACEMENT AND MAINTENANCE FUND

## Recent Accomplishments

- Delivered 19 Electric Vehicles (EVs), Electric Utility Vehicles (EUVs) and hybrid vehicles to support City's Sustainability and Climate Action Plan.
- Delivered 3 Dodge Durangos for the Police Department.
- Delivered 1 fully electric golf cart to replace the existing gas-powered golf cart.
- Two forklifts were delivered. One forklift is to be used by Stores, and the second forklift is for the Water Quality Control Plant.

## 2025-2029 Capital Improvement Program

### Recurring Projects

The 2025-2029 CIP includes one recurring project, Emergency Repair and Replacement, providing \$200,000 annually, plus salary and benefits for maintenance staff, to repair and/or replace critical vehicles/equipment that sustain damage due to accidents or unpreventable failure. This project mitigates impact to service delivery that could occur if these vehicles experienced lengthy times out of service. Since the inception of this project in Fiscal Year 2015, it has funded 57 repairs on vehicles/equipment and nine replacements.

### Non-Recurring Projects

The 2025-2029 CIP includes nine projects, with \$23.6 million allocated for vehicle and equipment replacements. All replacements are programmed for vehicles/equipment at the end of their useful life. Criteria for vehicles/equipment replacement include but are not limited to: utilization based on mileage or hours of operation, age, maintenance/repair records, and funding availability. As part of the replacement policy, and wherever possible, electric vehicles are considered first, then vehicles that use alternative fuels.

## Vehicle Replacement and Maintenance Fund

Project Number	Project Title	FY 2024 Budget	FY 2024 Estimate	FY 2025 Proposed	FY 2026	FY 2027	FY 2028	FY 2029	5-Year Total
<b>SOURCE OF FUNDS</b>									
<b>Transfer from General Fund</b>									
<b>VR-24000</b>	Scheduled Vehicle and Equipment Replacement - Fiscal Year 2024	80,000	80,000	0	0	0	0	0	0
<b>Transfer from General Fund Total</b>		<b>\$80,000</b>	<b>\$80,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
<b>Total Sources</b>		<b>\$80,000</b>	<b>\$80,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
<b>USE OF FUNDS</b>									
<b>Vehicle and Equipment Replacement</b>									
<b>VR-15001</b>	Emergency Repair and Replacement	179,864	179,864	220,000	222,000	224,000	226,000	200,000	1,092,000
<b>VR-20000</b>	Scheduled Vehicle and Equipment Replacement - Fiscal Year 2020	737,092	707,092	30,000	0	0	0	0	30,000
<b>VR-21000</b>	Scheduled Vehicle and Equipment Replacement - Fiscal Year 2021	122,235	104,884	17,351	0	0	0	0	17,351
<b>VR-22000</b>	Scheduled Vehicle and Equipment Replacement - Fiscal Year 2022	1,242,631	1,242,631	0	0	0	0	0	0
<b>VR-23000</b>	Scheduled Vehicle and Equipment Replacement - Fiscal Year 2023	2,147,750	1,274,273	873,477	0	0	0	0	873,477

# VEHICLE REPLACEMENT AND MAINTENANCE FUND

## Vehicle Replacement and Maintenance Fund *(Continued)*

Project Number	Project Title	FY 2024 Budget	FY 2024 Estimate	FY 2025 Proposed	FY 2026	FY 2027	FY 2028	FY 2029	5-Year Total
<b>VR-24000</b>	Scheduled Vehicle and Equipment Replacement - Fiscal Year 2024	4,986,000	621,462	4,364,538	0	0	0	0	4,364,538
<b>VR-25000</b>	Scheduled Vehicle and Equipment Replacement - Fiscal Year 2025	0	0	3,557,000	0	0	0	0	3,557,000
<b>VR-26000</b>	Scheduled Vehicle and Equipment Replacement - Fiscal Year 2026	0	0	0	3,409,000	0	0	0	3,409,000
<b>VR-27000</b>	Scheduled Vehicle and Equipment Replacement - Fiscal Year 2027	0	0	0	0	3,566,000	0	0	3,566,000
<b>VR-28000</b>	Scheduled Vehicle and Equipment Replacement - Fiscal Year 2028	0	0	0	0	0	3,567,000	0	3,567,000
<b>VR-29000</b>	Scheduled Vehicle and Equipment Replacement - Fiscal Year 2029	0	0	0	0	0	0	4,176,048	4,176,048
<b>Vehicle and Equipment Replacement Total</b>		<b>\$9,415,572</b>	<b>\$4,130,206</b>	<b>\$9,062,366</b>	<b>\$3,631,000</b>	<b>\$3,790,000</b>	<b>\$3,793,000</b>	<b>\$4,376,048</b>	<b>\$24,652,414</b>
<b>Total Uses</b>		<b>\$9,415,572</b>	<b>\$4,130,206</b>	<b>\$9,062,366</b>	<b>\$3,631,000</b>	<b>\$3,790,000</b>	<b>\$3,793,000</b>	<b>\$4,376,048</b>	<b>\$24,652,414</b>



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# Vehicle and Equipment Replacement

# VEHICLE REPLACEMENT AND MAINTENANCE FUND



**Fund:** Vehicle Replacement & Maintenance Fund  
**Category:** Vehicle and Equipment Replacement  
**Project Location:** 3201 East Bayshore Road  
**Managing Department:** Public Works  
**Initial Project Start:** Recurring  
**Initial Project Completion:** Recurring  
**Revised Project Start:** N/A  
**Revised Project Completion:** N/A  
**Project Number:** VR-15001

Marked Police & Fire Vehicle, February 2013

## Emergency Repair and Replacement

### Description

This project provides funding to replace or repair vehicles/equipment that sustain damage due to accidents or unpreventable failure.

### Justification

Service levels are impacted when critical vehicles/equipment such as utility trucks and police sedans experience lengthy down times. Therefore, when damage or failure occurs, these critical vehicles/equipment need to be replaced or repaired quickly to ensure uninterrupted service. In some cases, reserve vehicles/equipment exist, however, it is unrealistic to have a back-up for each vehicle and piece of equipment in the City.

### Significant Changes

**2025-2029 CIP:** Additional funding has been added annually to this project to support vehicle and equipment accident related repairs and replacements beyond the \$100,000 that has been budgeted annually since 2015.

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Vehicle Replacement Fund</b>	N/A	179,864	179,864	220,000	222,000	224,000	226,000	200,000	1,092,000	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$179,864</b>	<b>\$179,864</b>	<b>\$220,000</b>	<b>\$222,000</b>	<b>\$224,000</b>	<b>\$226,000</b>	<b>\$200,000</b>	<b>\$1,092,000</b>	<b>\$0</b>	<b>N/A</b>



# VEHICLE REPLACEMENT AND MAINTENANCE FUND

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Other	N/A	179,864	179,864	220,000	222,000	224,000	226,000	200,000	1,092,000	0	N/A
<b>Total</b>	<b>N/A</b>	<b>\$179,864</b>	<b>\$179,864</b>	<b>\$220,000</b>	<b>\$222,000</b>	<b>\$224,000</b>	<b>\$226,000</b>	<b>\$200,000</b>	<b>\$1,092,000</b>	<b>\$0</b>	<b>N/A</b>

### Operating Impact

Costs to operate and maintain the City's fleet are budgeted annually in the Vehicle Replacement Fund and allocated to other City departments based on historical maintenance and repair needs. There are no additional operating impacts anticipated from this project and maintenance will be absorbed within the available maintenance schedule and annual operating budget.

<p><b>Relationship to Comprehensive Plan</b>  <b>Primary Connection</b></p> <p>Element: Natural Environment                  Section: Air Quality                  Goal: N-5                  Policy: N-5.2</p> <p><b>Environmental Impact Analysis:</b>                  This project is expected to have a possible exemption from CEQA under Section 15301.</p>	<p><b>Potential Board/Commission Review:</b></p> <p>Planning and Transportation                  Commission                  Fleet Review Committee</p>
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## VEHICLE REPLACEMENT AND MAINTENANCE FUND



**Fund:** Vehicle Replacement & Maintenance Fund

**Category:** Vehicle and Equipment Replacement

**Project Location:** 3201 East Bayshore Road

**Managing Department:** Public Works

**Initial Project Start:** Summer 2019

**Initial Project Completion:** Spring 2021

**Revised Project Start:** N/A

**Revised Project Completion:** Spring 2025

**Project Number:** VR-20000

Isuzu cab chassis with custom utility body, February 2014

# Scheduled Vehicle and Equipment Replacement - Fiscal Year 2020

## Description

This project provides funding for the existing City fleet vehicles and equipment scheduled for replacement in Fiscal Year 2020.

## Justification

The ongoing replacement of City fleet vehicles and equipment is prescribed by the City's policy for vehicle replacement, which includes guidelines based on age, mileage accumulation, and obsolescence. Timely replacement of vehicles lowers maintenance costs, helps to maintain or even increase the productivity of client departments, and allows the City to take advantage of new technology. As part of the policy, staff will first consider electric vehicles and then other alternative fuel vehicles when replacing existing vehicles.

## Supplemental Information

Funding in this project allows for the following replacements: five sedans; one motorcycle; one marked patrol vehicle; 18 pickups; two vans; two dump trucks; one aerial truck; seven miscellaneous equipment units. Of the 37 vehicles and pieces of equipment, 25 support the operations of the General Fund (\$1.65 million) and 12 support the operations of various Enterprise Funds (\$1.85 million). Since the inception of this project, vehicles/equipment have been added or removed based on the needs and available budget of individual departments (\$3.5 million).

## Significant Changes

**2025-2029 CIP:** The remaining two units that need to be replaced from this CIP are two Peterbilt Hydraulic Digger Derricks. The delivery of these units has been delayed over several years and the funds for their replacement have been reappropriated to FY 2025.

# VEHICLE REPLACEMENT AND MAINTENANCE FUND

**2024-2028 CIP:** Two units, both Peterbilt Hydraulic Digger Derricks, are pending delivery and outfitting. Total project funding reduced to \$2.8 million.

**2023-2027 CIP:** Two pieces of equipment were delayed in production thus resulting in a new delivery date. Deliveries have also been delayed due to vendor staffing shortages.

**2022-2026 CIP:** One sedan was previously replaced and therefore removed from the list last year. All remaining vehicles on the list have been ordered; four vehicles still to be delivered and outfitted.

**2021-2025 CIP:** Seven vehicles to be ordered; 26 vehicles to be delivered and outfitted; and one vehicle removed from list.

**2020-2024 CIP:** The replacement list is reviewed each year and changes are tracked but not finalized until the year preceding replacement. Changes in the FY 2020 list include the addition of six vehicles and the removal of 12 vehicles, bringing the total number of vehicles and pieces of equipment to be replaced to 37 and an overall funding increase of \$31,000.

**2019-2023 CIP:** Five vehicles/pieces of equipment were removed including two sedans, one van, one generator, and one mower; while three were added including one F-150 and two F-350s with utility bodies. General Fund reduced by \$0.3 million. Enterprise funds increased by \$0.2 million.

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Transfer from Gas Fund</b>	143,251	0	0	0	0	0	0	0	0	0	143,251
<b>Vehicle Replacement Fund</b>	1,875,798	737,092	707,092	30,000	0	0	0	0	30,000	0	2,612,890
<b>Total</b>	<b>\$2,019,049</b>	<b>\$737,092</b>	<b>\$707,092</b>	<b>\$30,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$30,000</b>	<b>\$0</b>	<b>\$2,756,141</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Other</b>	2,019,011	737,092	707,092	30,000	0	0	0	0	30,000	0	2,756,103
<b>Total</b>	<b>\$2,019,011</b>	<b>\$737,092</b>	<b>\$707,092</b>	<b>\$30,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$30,000</b>	<b>\$0</b>	<b>\$2,756,103</b>

### Operating Impact

Costs to operate and maintain the City's fleet are budgeted annually in the Vehicle Replacement Fund and allocated to other City departments based on historical maintenance and repair needs. There are no additional operating impacts anticipated from this project and maintenance will be absorbed within the available maintenance schedule and annual operating budget.

# VEHICLE REPLACEMENT AND MAINTENANCE FUND

<b>Relationship to Comprehensive Plan Primary Connection</b>	<b>Potential Board/Commission Review:</b>
Element: Natural Environment	Planning and Transportation Commission
Section: Air Quality	Fleet Review Committee
Goal: N-5	
Policy: N-5.2	
<b>Environmental Impact Analysis:</b> This project is expected to have a possible exemption from CEQA under Section 15301.	



CITY OF  
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ALTO**

## VEHICLE REPLACEMENT AND MAINTENANCE FUND



**Fund:** Vehicle Replacement & Maintenance Fund

**Category:** Vehicle and Equipment Replacement

**Project Location:** 3201 East Bayshore Road

**Managing Department:** Public Works

**Initial Project Start:** Summer 2020

**Initial Project Completion:** Spring 2022

**Revised Project Start:** N/A

**Revised Project Completion:** Spring 2025

**Project Number:** VR-21000

Ford F-550 Saw Truck, March 2019

# Scheduled Vehicle and Equipment Replacement - Fiscal Year 2021

## Description

This project provides funding for the existing City fleet vehicles and equipment scheduled for replacement in Fiscal Year 2021.

## Justification

The ongoing replacement of City fleet vehicles and equipment is prescribed by the City's policy for vehicle replacement, which includes guidelines based on age, mileage accumulation, and obsolescence. Timely replacement of vehicles lowers maintenance costs, helps to maintain or even increase the productivity of client departments, and allows the City to take advantage of new technology. As part of the policy, staff will first consider electric vehicles and then other alternative fuel vehicles when replacing existing vehicles.

## Supplemental Information

Funding in this project allows for the following replacements: one sedan, four vans, eight trucks, two marked vehicles, four trailers, one generator, and 10 miscellaneous pieces of equipment. Of the 30 vehicles and pieces of equipment, 16 support the operations of the General Fund (\$0.7 million) and 14 support the operations of various Enterprise Funds (\$0.8 million). Since the inception of this project, five vehicles/equipment have been added and three vehicles/equipment removed (\$0.1 million) based on the individual needs and available budget of each department (\$1.5 million).

## Significant Changes

**2024-2028 CIP:** Three units are still pending delivery and outfitting: one Ford F-350 with service body, one utility trailer, and one Ford Transit Cargo van. Total project funding reduced to \$1.4 million.

**2023-2027 CIP:** Corrections to ordered vehicles/equipment were made; one vehicle remains unordered due to the manufacturer's lack of inventory.

# VEHICLE REPLACEMENT AND MAINTENANCE FUND

**2022-2026 CIP:** Five vehicles were added to the list making a total of 30 vehicles, funding not increased; all vehicles on the list have been ordered; 19 vehicles still to be delivered and outfitted.

**2021-2025 CIP:** Program in Fiscal Years 2021 and 2022 was reduced as part of the FY 2021 budget balancing strategy. Vehicle replacement for FY 2021 is limited to vehicles or equipment that have regulatory requirements or serious maintenance issues. Contingency funding has been added in case vehicles or equipment exceed estimates.

**2020-2024 CIP:** The replacement list is reviewed each year and changes are tracked but not finalized until the year preceding replacement. Changes in the FY 2021 list include the addition of four vehicles and the removal of eight vehicles, bringing the total number of vehicles and pieces of equipment to be replaced to 34.

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Transfer from Public Services Donation Fund</b>	55,055	0	0	0	0	0	0	0	0	0	55,055
<b>Vehicle Replacement Fund</b>	1,184,815	122,235	104,884	17,351	0	0	0	0	17,351	0	1,307,050
<b>Total</b>	<b>\$1,239,870</b>	<b>\$122,235</b>	<b>\$104,884</b>	<b>\$17,351</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$17,351</b>	<b>\$0</b>	<b>\$1,362,105</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Other</b>	1,239,835	122,235	104,884	17,351	0	0	0	0	17,351	0	1,362,070
<b>Total</b>	<b>\$1,239,835</b>	<b>\$122,235</b>	<b>\$104,884</b>	<b>\$17,351</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$17,351</b>	<b>\$0</b>	<b>\$1,362,070</b>

### Operating Impact

Costs to operate and maintain the City's fleet are budgeted annually in the Vehicle Replacement Fund and allocated to other City departments based on historical maintenance and repair needs. There are no additional operating impacts anticipated from this project and maintenance will be absorbed within the available maintenance schedule and annual operating budget.

<p><b>Relationship to Comprehensive Plan Primary Connection</b></p> <p>Element: Natural Environment                  Section: Air Quality                  Goal: N-5                  Policy: N-5.2</p> <p><b>Environmental Impact Analysis:</b>                  This project is expected to have a possible exemption from CEQA under Section 15301.</p>	<p><b>Potential Board/Commission Review:</b></p> <p>Planning and Transportation Commission                  Fleet Review Committee</p>
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## VEHICLE REPLACEMENT AND MAINTENANCE FUND



**Fund:** Vehicle Replacement & Maintenance Fund  
**Category:** Vehicle and Equipment Replacement  
**Project Location:** 3201 East Bayshore Road  
**Managing Department:** Public Works  
**Initial Project Start:** Summer 2022  
**Initial Project Completion:** Spring 2024  
**Revised Project Start:** N/A  
**Revised Project Completion:** N/A  
**Project Number:** VR-23000

Peterbilt Dump Truck, March 2018

# Scheduled Vehicle and Equipment Replacement - Fiscal Year 2023

## Description

This project provides funding for the existing City fleet vehicles and equipment scheduled for replacement in Fiscal Year 2023.

## Justification

The ongoing replacement of City fleet vehicles and equipment is prescribed by the City's policy for vehicle replacement, which includes guidelines based on age, mileage accumulation, and obsolescence. Timely replacement of vehicles lowers maintenance costs, helps to maintain or even increase the productivity of client departments, and allows the City to take advantage of new technology. As part of the policy, staff will first consider electric vehicles and then other alternative fuel vehicles when replacing existing vehicles.

## Supplemental Information

Funding in this project allows for the following replacements: two sedans, two vans, nine trucks, one ambulance, five marked vehicles, three dump trucks, two trailers, and five miscellaneous pieces of equipment. Of the 29 vehicles and pieces of equipment, 18 support the operations of the General Fund (\$2.6 million) and 11 support the operations of various Enterprise Funds (\$0.9 million). Since the inception of this project, vehicles and equipment have been added or removed based on the individual needs and available budget of each department (\$3.5 million).

## Significant Changes

**2025-2029 CIP:** Out of the 26 vehicles scheduled for replacement, sixteen have been delivered, seven are to be delivered, and three remain to be ordered. One of the vehicles remaining to be ordered is an ambulance that had been scheduled for replacement, with Council approval, in November 2022; however, approval was rescinded, and electric ambulances are not currently available.



# VEHICLE REPLACEMENT AND MAINTENANCE FUND

**2024-2028 CIP:** Seven units still need to be purchased (compact truck, two cargo vans, parking enforcement vehicle, ambulance, medium duty truck, and a dump truck), and multiple other units are pending delivery and outfitting (two forklifts, International saw truck, two International chipper trucks, four Dodge Durango pursuit vehicles, Pierce fire truck, Ford F-150 hybrid, and two Ford F-450 flatbed trucks).

**2023-2027 CIP:** One trailer and two sedans added; two marked vehicles, one dump truck, and one ambulance moved to a later year. Vehicle/equipment total lessened from 30 to 29.

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Transfer from General Fund</b>	80,000	0	0	0	0	0	0	0	0	0	80,000
<b>Vehicle Replacement Fund</b>	1,296,249	2,147,750	1,274,273	873,477	0	0	0	0	873,477	0	3,443,999
<b>Total</b>	<b>\$1,376,249</b>	<b>\$2,147,750</b>	<b>\$1,274,273</b>	<b>\$873,477</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$873,477</b>	<b>\$0</b>	<b>\$3,523,999</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Other</b>	1,376,240	2,147,750	1,274,273	873,477	0	0	0	0	873,477	0	3,523,990
<b>Total</b>	<b>\$1,376,240</b>	<b>\$2,147,750</b>	<b>\$1,274,273</b>	<b>\$873,477</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$873,477</b>	<b>\$0</b>	<b>\$3,523,990</b>

### Operating Impact

Costs to operate and maintain the City's fleet are budgeted annually in the Vehicle Replacement Fund and allocated to other City departments based on historical maintenance and repair needs. There are no additional operating impacts anticipated from this project and maintenance will be absorbed within the available maintenance schedule and annual operating budget.

<p><b>Relationship to Comprehensive Plan</b>  <b>Primary Connection</b></p> <p>Element: Natural Environment                  Section: Air Quality                  Goal: N-5                  Policy: N-5.2</p> <p><b>Environmental Impact Analysis:</b>                  This project is expected to have a possible exemption from CEQA under Section 15301.</p>	<p><b>Potential Board/Commission Review:</b></p> <p>Planning and Transportation                  Commission                  Fleet Review Committee</p>
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## VEHICLE REPLACEMENT AND MAINTENANCE FUND



**Fund:** Vehicle Replacement & Maintenance Fund

**Category:** Vehicle and Equipment Replacement

**Managing Department:** Public Works

**Initial Project Start:** Summer 2023

**Initial Project Completion:** Spring 2024

**Revised Project Start:** N/A

**Project Number:** VR-24000

Freightliner FL-70 Aerial, March 2019

# Scheduled Vehicle and Equipment Replacement - Fiscal Year 2024

## Description

This project provides funding for the existing City fleet vehicles and equipment scheduled for replacement in Fiscal Year 2024.

## Justification

The ongoing replacement of City fleet vehicles and equipment is prescribed by the City's policy for vehicle replacement, which includes guidelines based on age, mileage accumulation, and obsolescence. Timely replacement of vehicles lowers maintenance costs, helps to maintain or even increase the productivity of client departments, and allows the City to take advantage of new technology. As part of the policy, staff will first consider electric vehicles and then other alternative fuel vehicles when replacing existing vehicles.

## Supplemental Information

Funding in this project allows for the replacement of 22 all-electric vehicles, ten pieces of equipment, and five public safety vehicles including a fire utility vehicle. Of the 37 vehicles and pieces of equipment, 25 support the operations of the General Fund (\$1.9 million) and 12 support the operations of various Enterprise Funds (\$1.7 million). Since the inception of this project, vehicles and equipment have been added or removed based on the individual needs and available budget of each department (\$3.6 million).

## Significant Changes

**2025-2029 CIP:** Forty vehicles are scheduled for replacement with 17 delivered, of which 13 are electric vehicles. The remaining vehicles are subject to availability and are pending quotes and/or order placement. To the original VR-24000 budget of \$3,492,000, additional funding of \$1,350,000 was added in FY 2024 for the replacement of 9 additional electric vehicles.

# VEHICLE REPLACEMENT AND MAINTENANCE FUND

**2024-2028 CIP:** Modifications to the actual vehicles and equipment being replaced may be made based on the availability of electric vehicles in the market. This may result in a higher, or lower number of units being replaced, and may also change the overall unit type breakdown provided.

**2023-2027 CIP:** One aerial, one dump truck and one trailer removed from list leaving 26 units to replace. Total budget remains the same.

**2022-2026 CIP:** Additional vehicles have been added to the replacement list for FY 2024. This list will still evolve until the year prior to budget adoption. Changes in the FY 2024 list include the addition of twenty vehicles and the removal of 3 vehicles, bringing the total number of vehicles and pieces of equipment to be replaced to 29 and an overall funding increase of \$1.1M.

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Transfer from General Fund	0	80,000	80,000	0	0	0	0	0	0	0	80,000
Vehicle Replacement Fund	0	4,906,000	541,462	4,364,538	0	0	0	0	4,364,538	0	4,906,000
<b>Total</b>	<b>\$0</b>	<b>\$4,986,000</b>	<b>\$621,462</b>	<b>\$4,364,538</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$4,364,538</b>	<b>\$0</b>	<b>\$4,986,000</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Other	0	4,986,000	621,462	4,364,538	0	0	0	0	4,364,538	0	4,986,000
<b>Total</b>	<b>\$0</b>	<b>\$4,986,000</b>	<b>\$621,462</b>	<b>\$4,364,538</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$4,364,538</b>	<b>\$0</b>	<b>\$4,986,000</b>

### Operating Impact

Costs to operate and maintain the City's fleet are budgeted annually in the Vehicle Replacement Fund and allocated to other City departments based on historical maintenance and repair needs. There are no additional operating impacts anticipated from this project and maintenance will be absorbed within the available maintenance schedule and annual operating budget.

<p><b>Relationship to Comprehensive Plan</b>  <b>Primary Connection</b></p> <p>Element: Natural Environment                  Section: Air Quality                  Goal: N-5                  Policy: N-5.2</p> <p><b>Environmental Impact Analysis:</b>                  This project is expected to have a possible exemption from CEQA under Section 15301.</p>	<p><b>Potential Board/Commission Review:</b></p> <p>Planning and Transportation                  Commission                  Fleet Review Committee</p>
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## VEHICLE REPLACEMENT AND MAINTENANCE FUND



**Fund:** Vehicle Replacement & Maintenance Fund  
**Category:** Vehicle and Equipment Replacement  
**Managing Department:** Public Works  
**Initial Project Start:** Summer 2024  
**Initial Project Completion:** Spring 2026  
**Revised Project Start:** N/A  
**Revised Project Completion:** N/A  
**Project Number:** VR-25000

Isuzu NPR with Utility Body

# Scheduled Vehicle and Equipment Replacement - Fiscal Year 2025

## Description

This project provides funding for the existing City fleet vehicles and equipment scheduled for replacement in Fiscal Year 2025.

## Justification

The ongoing replacement of City fleet vehicles and equipment is prescribed by the City's policy for vehicle replacement, which includes guidelines based on age, mileage accumulation, and obsolescence. Timely replacement of vehicles lowers maintenance costs, helps to maintain or even increase the productivity of client departments, and allows the City to take advantage of new technology. As part of the policy, staff will first consider electric vehicles (EVs) and then other alternative fuel vehicles when replacing existing vehicles.

## Supplemental Information

Funding in this project allows for the following replacements: one sedan, five trucks, one van, two fire vehicles, one SUV, one marked vehicle, one dump truck, 13 trailers and 14 miscellaneous pieces of equipment. Of the 39 vehicles and pieces of equipment, 28 support the operations of the General Fund (\$2.9 million) and 11 support the operations of various Enterprise Funds (\$0.5 million). Since the inception of this project, vehicles and equipment have been added or removed based on the individual needs and available budget of each department (\$3.4 million).

## Significant Changes

**2025-2029 CIP:** Funding has been added for two Chevrolet Bolt EVs for Fire Inspectors in the Fire Department (\$80,000) and one Ford Transit EV for a Facilities Technician in the Public Works Department (\$80,000).

**2022-2026 CIP:** Additional vehicles have been added to the replacement list for FY 2025. This list will still evolve until the year prior to budget adoption. Changes in the FY 2025 list include the addition of eleven vehicles and

# VEHICLE REPLACEMENT AND MAINTENANCE FUND

the removal of two vehicles, bringing the total number of vehicles and pieces of equipment to be replaced to 39 and an overall funding increase of \$347,000.

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Vehicle Replacement Fund</b>	0	0	0	3,557,000	0	0	0	0	3,557,000	0	3,557,000
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$3,557,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$3,557,000</b>	<b>\$0</b>	<b>\$3,557,000</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Other</b>	0	0	0	3,557,000	0	0	0	0	3,557,000	0	3,557,000
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$3,557,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$3,557,000</b>	<b>\$0</b>	<b>\$3,557,000</b>

### Operating Impact

Costs to operate and maintain the City's fleet are budgeted annually in the Vehicle Replacement Fund and allocated to other City departments based on historical maintenance and repair needs. There are no additional operating impacts anticipated from this project and maintenance will be absorbed within the available maintenance schedule and annual operating budget.

<p><b>Relationship to Comprehensive Plan</b>  <b>Primary Connection</b></p> <p>Element: Natural Environment                  Section: Air Quality                  Goal: N-5                  Policy: N-5.2</p> <p><b>Environmental Impact Analysis:</b>                  Not Applicable</p>	<p><b>Potential Board/Commission Review:</b></p> <p>Planning and Transportation                  Commission                  Fleet Review Committee</p>
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## VEHICLE REPLACEMENT AND MAINTENANCE FUND



**Fund:** Vehicle Replacement & Maintenance Fund  
**Category:** Vehicle and Equipment Replacement  
**Project Location:** 3201 E. Bayshore Road

**Managing Department:** Public Works

**Initial Project Start:** Summer 2025

**Initial Project Completion:** Spring 2027

**Revised Project Start:** N/A

**Revised Project Completion:** N/A

**Project Number:** VR-26000

Freightliner with Utility Body, March 2013

# Scheduled Vehicle and Equipment Replacement - Fiscal Year 2026

## Description

This project provides funding for the existing City fleet vehicles and equipment scheduled for replacement in Fiscal Year 2026.

## Justification

The ongoing replacement of City fleet vehicles and equipment is prescribed by the City's policy for vehicle replacement, which includes guidelines based on age, mileage accumulation, and obsolescence. Timely replacement of vehicles lowers maintenance costs, helps to maintain or even increase the productivity of client departments, and allows the City to take advantage of new technology. As part of the policy, staff will first consider electric vehicles and then other alternative fuel vehicles when replacing existing vehicles.

## Supplemental Information

Funding in this project allows for the following replacements: two sedans, five trucks, two ambulances, one fire engine, seven marked vehicles, one motorcycle, one dump truck, and four trailers. Of the 23 vehicles and pieces of equipment, 18 support the operations of the General Fund (\$2.6 million) and 5 support the operations of various Enterprise Funds (\$0.8 million). Since the inception of this project, vehicles and equipment have been added or removed based on the individual needs and available budget of each department (\$3.4 million).

## Significant Changes

**2023-2027 CIP:** One generator removed from list leaving 23 units to replace. Total budget remains the same.

**2022-2026 CIP:** Project established during FY 2022.

# VEHICLE REPLACEMENT AND MAINTENANCE FUND

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Vehicle Replacement Fund</b>	0	0	0	0	3,409,000	0	0	0	3,409,000	0	3,409,000
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$3,409,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$3,409,000</b>	<b>\$0</b>	<b>\$3,409,000</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Other</b>	0	0	0	0	3,409,000	0	0	0	3,409,000	0	3,409,000
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$3,409,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$3,409,000</b>	<b>\$0</b>	<b>\$3,409,000</b>

### Operating Impact

Costs to operate and maintain the City's fleet are budgeted annually in the Vehicle Replacement Fund and allocated to other City departments based on historical maintenance and repair needs. There are no additional operating impacts anticipated from this project and maintenance will be absorbed within the available maintenance schedule and annual operating budget.

#### Relationship to Comprehensive Plan Primary Connection

Element: Natural Environment  
Section: Air Quality  
Goal: N-5  
Policy: N-5.2

#### Potential Board/Commission Review:

Planning and Transportation  
Commission  
Fleet Review Committee

#### Environmental Impact Analysis:

This project is expected to have a possible exemption from CEQA under Section 15301.



## VEHICLE REPLACEMENT AND MAINTENANCE FUND



**Fund:** Vehicle Replacement & Maintenance Fund

**Category:** Vehicle and Equipment Replacement

**Project Location:** 3201 E. Bayshore Road

**Managing Department:** Public Works

**Initial Project Start:** Summer 2026

**Initial Project Completion:** Spring 2028

**Revised Project Start:** N/A

**Revised Project Completion:** N/A

**Project Number:** VR-27000

Stores Walk-In Delivery Van, 2022

# Scheduled Vehicle and Equipment Replacement - Fiscal Year 2027

## Description

This project provides funding for the existing City fleet vehicles and equipment scheduled for replacement in Fiscal Year 2027.

## Justification

The ongoing replacement of City fleet vehicles and equipment is prescribed by the City's policy for vehicle replacement, which includes guidelines based on age, mileage accumulation, and obsolescence. Timely replacement of vehicles lowers maintenance costs, helps to maintain or even increase the productivity of client departments, and allows the City to take advantage of new technology. As part of the policy, staff will first consider electric vehicles and then other alternative fuel vehicles when replacing existing vehicles.

## Supplemental Information

Funding in this project allows for the following replacements: four sedans, six trucks, six vans, one SUV, one pumper, three marked vehicles, one motorcycle, one generator, eleven trailers, one SWAT vehicle and four pieces of equipment. Of the 39 vehicles and pieces of equipment, 24 support the operations of the General Fund (\$2.4 million) and 15 support the operations of various Enterprise Funds (\$1.2 million). Since the inception of this project, vehicles and equipment have been added or removed based on the individual needs and available budget of each department (\$3.6 million).

## Significant Changes

**2023-2027 CIP:** Project established during FY 2023.



# VEHICLE REPLACEMENT AND MAINTENANCE FUND

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Vehicle Replacement Fund</b>	0	0	0	0	0	3,566,000	0	0	3,566,000	0	3,566,000
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$3,566,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$3,566,000</b>	<b>\$0</b>	<b>\$3,566,000</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
<b>Other</b>	0	0	0	0	0	3,566,000	0	0	3,566,000	0	3,566,000
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$3,566,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$3,566,000</b>	<b>\$0</b>	<b>\$3,566,000</b>

### Operating Impact

Costs to operate and maintain the City's fleet are budgeted annually in the Vehicle Replacement Fund and allocated to other City departments based on historical maintenance and repair needs. There are no additional operating impacts anticipated from this project and maintenance will be absorbed within the available maintenance schedule and annual operating budget.

#### Relationship to Comprehensive Plan Primary Connection

Element: Natural Environment  
Section: Air Quality  
Goal: N-5  
Policy: N-5.2

#### Potential Board/Commission Review:

Planning and Transportation  
Commission  
Fleet Review Committee

#### Environmental Impact Analysis:

This project is expected to have a possible exemption from CEQA under Section 15301.

## VEHICLE REPLACEMENT AND MAINTENANCE FUND



**Fund:** Vehicle Replacement & Maintenance Fund

**Category:** Vehicle and Equipment Replacement

**Project Location:** 3201 E. Bayshore Road

**Managing Department:** Public Works

**Initial Project Start:** Summer 2027

**Initial Project Completion:** Spring 2029

**Revised Project Start:** N/A

**Revised Project Completion:** N/A

**Project Number:** VR-28000

Pictured from left to right: Ford Focus EV; Toyota Prius Hybrid; Chevrolet Bolt EV

# Scheduled Vehicle and Equipment Replacement - Fiscal Year 2028

## Description

This project provides funding for the existing City fleet vehicles and equipment scheduled for replacement in Fiscal Year 2028.

## Justification

The ongoing replacement of City fleet vehicles and equipment is prescribed by the City's policy for vehicle replacement, which includes guidelines based on age, mileage accumulation, and obsolescence. Timely replacement of vehicles lowers maintenance costs, helps to maintain or even increase the productivity of client departments, and allows the City to take advantage of new technology. As part of the policy, staff will first consider electric vehicles and then other alternative fuel vehicles when replacing existing vehicles.

## Supplemental Information

Funding in this project allows for the following replacements: thirteen sedans, one truck, two vans, one pumper, five marked vehicles, two ambulances, one generator, three trailers, and three pieces of equipment. Of the 31 vehicles and pieces of equipment, 24 support the operations of the General Fund (\$3.1 million) and 7 support the operations of various Enterprise Funds (\$0.5 million). Since the inception of this project, vehicles and equipment have been added or removed based on the individual needs and available budget of each department (\$3.6 million).

## Significant Changes

**2024-2028 CIP:** Project established during FY 2024.

# VEHICLE REPLACEMENT AND MAINTENANCE FUND

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Vehicle Replacement Fund	0	0	0	0	0	0	3,567,000	0	3,567,000	0	3,567,000
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$3,567,000</b>	<b>\$0</b>	<b>\$3,567,000</b>	<b>\$0</b>	<b>\$3,567,000</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Other	0	0	0	0	0	0	3,567,000	0	3,567,000	0	3,567,000
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$3,567,000</b>	<b>\$0</b>	<b>\$3,567,000</b>	<b>\$0</b>	<b>\$3,567,000</b>

### Operating Impact

Costs to operate and maintain the City's fleet are budgeted annually in the Vehicle Replacement Fund and allocated to other City departments based on historical maintenance and repair needs. There are no additional operating impacts anticipated from this project and maintenance will be absorbed within the available maintenance schedule and annual operating budget.

#### Relationship to Comprehensive Plan Primary Connection

Element: Natural Environment  
Section: Air Quality  
Goal: N-5  
Policy: N-5.2

#### Potential Board/Commission Review:

Planning and Transportation  
Commission  
Fleet Review Committee

#### Environmental Impact Analysis:

This project is expected to have a possible exemption from CEQA under Section 15301.

## VEHICLE REPLACEMENT AND MAINTENANCE FUND



**Fund:** Vehicle Replacement & Maintenance Fund

**Category:** Vehicle and Equipment Replacement

**Project Location:** 3201 E. Bayshore Road

**Managing Department:** Public Works

**Initial Project Start:** Summer 2029

**Initial Project Completion:** Spring 2031

**Revised Project Start:** N/A

**Revised Project Completion:** N/A

**Project Number:** VR-29000

**New marked Police Dodge Durango, 2023**

# Scheduled Vehicle and Equipment Replacement - Fiscal Year 2029

## Description

This project provides funding for the existing City fleet vehicles and equipment scheduled for replacement in Fiscal Year 2029.

## Justification

The ongoing replacement of City fleet vehicles and equipment is prescribed by the City's policy for vehicle replacement, which includes guidelines based on age, mileage accumulation, and obsolescence. Timely replacement of vehicles lowers maintenance costs, helps to maintain, or even increase the productivity of client departments, and allows the City to take advantage of new technology. As part of the policy, staff will first consider electric vehicles and then other alternative fuel vehicles when replacing existing vehicles.

## Supplemental Information

Funding in this project allows for the replacements of forty vehicles/equipment units: two motorcycles, two dump trucks, two loaders, one generator, one tiller, seven trucks, two tractors, three SUVs, five sedans, one tree aerial, and fourteen pieces of equipment. Since the inception of this project, vehicles and equipment will be added or removed based on the individual needs and available budget of each department.

## Significant Changes

**2025-2029 CIP:** Project established during FY 2025. Replacing City vehicles is a dynamic process subject to not only State and City ordinances pertaining to the procurement of public vehicles, but also to availability. This replacement schedule for FY 2029 will be amended based on the individual needs and available budget of each department.

# VEHICLE REPLACEMENT AND MAINTENANCE FUND

## Funding Sources Schedule

Funding Source	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Vehicle Replacement Fund	0	0	0	0	0	0	0	4,176,048	4,176,048	0	4,176,048
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$4,176,048</b>	<b>\$4,176,048</b>	<b>\$0</b>	<b>\$4,176,048</b>

## Expenditure Schedule

Project Phase	Prior Years	FY 2024 Budget	FY 2024 Estimate	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	5 Year CIP Total	Beyond 5 Year CIP	Total
Other	0	0	0	0	0	0	0	4,176,048	4,176,048	0	4,176,048
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$4,176,048</b>	<b>\$4,176,048</b>	<b>\$0</b>	<b>\$4,176,048</b>

### Operating Impact

Costs to operate and maintain the City's fleet are budgeted annually in the Vehicle Replacement Fund and allocated to other City departments based on historical maintenance and repair needs. There are no additional operating impacts anticipated from this project and maintenance will be absorbed within the available maintenance schedule and annual operating budget.

<p><b>Relationship to Comprehensive Plan Primary Connection</b></p> <p>Element: Natural Environment                  Section: Air Quality                  Goal: N-5                  Policy: N-5.2</p> <p><b>Environmental Impact Analysis:</b>                  Not Applicable</p>	<p><b>Potential Board/Commission Review:</b></p> <p>Planning and Transportation Commission                  Fleet Review Committee</p>
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# SUPPLEMENTAL INFORMATION



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## Key Budget Terms

**Accrual Accounting:** A method of accounting that recognizes expenses when incurred and revenues when earned rather than when payment is made or received.

**Adopted Budget:** The budget that is approved and enacted by the City Council annually before June 30th.

**American Rescue Plan Act (ARPA):** A Federal economic stimulus plan signed into law by the President Biden on March 11, 2021. The stimulus package provided direct, flexible relief funds to cities, counties and states to combat the negative financial impact of the pandemic.

**Appropriation:** The allocation of an expense budget for a particular project or program usually for a specific period of time.

**Balanced Budget:** A balanced budget exists when total revenues are equal to, or greater than, total expenses.

**Bond:** A debt investment in which an investor loans money to an entity (governmental or otherwise) that borrows the money for a defined period of time at a fixed interest rate to pay for a variety of projects.

**Budget Stabilization Reserve (BSR):** The BSR was established as a prudent measure to maintain the City's fiscal stability in the event that unanticipated events reduce revenue or create obligations that significantly impact the current-year budget. Examples of such events include a downturn in the economy, a natural disaster or actions that may be taken by another governmental agency that reduce revenues and/or increase expenses for the City.

**Capital Budget:** A plan of proposed capital outlays and the means of financing them for the current fiscal period. In a two-year budget, the second year of the Capital Improvement Program is adopted-in-concept.

**Capital Improvement Program (CIP):** The City's plan for current and future projects related to the acquisition, expansion, or rehabilitation of buildings, equipment, parks, streets, and other public infrastructure.

**Capital Projects Fund:** A fund created to account for all resources to be used for the construction or acquisition of designated fixed assets by a governmental unit except those financed by proprietary or fiduciary funds.

**City Manager's Report (CMR):** Staff reports for City Council meetings as well as boards and commissions that are prepared by City staff and submitted through the City Manager's Office.

**Comprehensive Plan:** The Palo Alto Comprehensive Plan contains the City's official policies on land use and community design; transportation; natural environment; safety; community services and facilities; and business and economics. Its focus is on the physical form of the City and is applicable to both public and private properties. The Budget integrates the 2030 Comprehensive Plan into the budget process.

**Cost Accounting:** The branch of accounting that provides for the assembling and recording of all the elements of cost incurred to accomplish a purpose, carry on an activity or operation, or complete a unit of work or a specific job.

**Enterprise Funds:** Funds used to account for services that are provided to the public on a user charge basis, similar to the operation of a commercial business. The City's enterprise funds include the gas, electric, water, fiber optics and wastewater collection and treatment funds.

**Fiduciary Fund:** A fund used to account for assets held by the City acting in a fiduciary capacity for other individuals or entities. These funds are operated to carry out the specific actions required by the trust agreements, ordinances and other governing regulations.

**Fiscal Agent:** A bank or other corporate fiduciary that performs the function of paying, on behalf of the governmental unit, or other debtor, interest on debt or principal of debt when due.

**Fiscal Year:** A 12-month period of time to which the annual budget applies and at the end of which a governmental unit determines its financial position and the results of operations. Palo Alto's fiscal year begins on July 1st and ends on June 30th.

**Fixed Assets:** Assets such as land, structures and improvements, furniture and/or equipment that are expected to last and/or be used for more than one year.

## GLOSSARY

**Full-Time Equivalent (FTE):** Used to quantify staffing hours for permanent and temporary employees. A 1.00 FTE employee works full time; a 0.50 FTE employee works half-time.

**Fund Balance:** An excess of the assets of a fund over its liabilities.

**General Fund:** The primary fund used to account for the City's general purpose revenues such as sales, property, utility users and transient occupancy taxes. General Fund revenues typically pay for citywide services such as public safety, community development, recreation, libraries and parks. The General Fund is distinguished from Special Funds in that the latter are used to account for revenues that have restricted uses (e.g. gas tax funds that must be used for street maintenance or repair).

**Governmental Funds:** A classification used to refer to all funds other than proprietary and fiduciary funds. Governmental funds include the general fund, capital fund, special revenue funds and debt service funds.

**Infrastructure Assets:** Roads, bridges, curbs and gutters, streets, sidewalks, drainage systems, and lighting systems installed for the common good.

**Infrastructure Management Plan (IMP):** A portion of the General Fund capital improvement program which focuses on rehabilitating the City's infrastructure. In 1998-99, an outside consultant on the City's infrastructure prepared a report known as the Adamson report. Within this report the City's infrastructure was cataloged and ranked based on when the infrastructure needed to be upgraded or replaced and the cost for each item. At that time, the City Council decided to establish a plan using the Adamson report as a guide for both timeline and cost.

**Internal Service Funds:** These funds provide services to City departments and recover their costs through user charges. For example the Vehicle Replacement Fund is an Internal Service Fund managing the replacement and maintenance of the City fleet.

**Major Funds:** These are any budgeted funds that have annual revenues or expenses of more than 10% of the operating budget.

**Method of Accounting:** The City's General Fund budget is developed using a modified accrual basis of accounting, with revenues being recorded when measurable and available, and expenditures recorded when the liability is incurred. Enterprise Funds and Internal Service Funds are budgeted on a generally accepted accounting principles (GAAP) basis, which for Proprietary Funds is on a full accrual accounting basis.

**Operating Transfer:** Amounts transferred between funds, not considered a revenue or expense. For example, legally authorized transfers from a fund receiving revenue to the fund through which the resources are to be expended.

**Pay-As-You-Go-Basis:** A term used to describe the financial policy of a governmental unit that finances all of its capital outlays from current revenues rather than by borrowing.

**Proposed Budget:** The proposed budget is the preliminary version of the budget that is sent to the Finance Committee and City Council by the City Manager. The proposed budget is reviewed by the Finance Committee and the City Council, updated with any changes, and then adopted by the City Council prior to the beginning of the next fiscal year.

**Proprietary Funds:** A generic classification used to refer to all funds other than governmental funds or fiduciary funds. Proprietary funds include internal service funds and enterprise funds.

**Reimbursements:** Inter-fund transactions that constitute reimbursements to a fund for expenditures or expenses initially made from it but that properly apply to another fund. For example, the Enterprise Funds reimburse the Technology Fund for CIP projects from which the Enterprise Funds benefit.

**Reserve:** Represents the portion of fund balance set aside for financing future financing needs and addressing one-time emergency or unanticipated events.

**Revenues:** Revenues include compensation received by the project for specific services to the public (external revenues), as well as revenues received from other funds (internal revenues).

**Special Revenue Funds:** These funds account for the proceeds derived from specific revenue sources that are legally restricted to expenditures for specified purposes. The Street Improvement Fund (SIF) is a Special Revenue Fund that derives its funding from state gas tax revenues. Capital appropriations from the SIF must be spent on the construction and maintenance of the road network system of the City.



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AMERICANS WITH DISABILITIES ACT (ADA) OF 1990,  
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For information contact:  
Building Chief Official/ADA Coordinator  
City of Palo Alto  
285 Hamilton Ave, Suite 100  
(650) 329-2550  
[ADA@cityofpaloalto.org](mailto:ADA@cityofpaloalto.org)



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CITY OF  
**PALO  
ALTO**

## PALO ALTO

Spanish explorers named the area for the tall, twin-trunked redwood tree they camped beneath in 1769. Palo Alto incorporated in 1894 and the State of California granted its first charter in 1909. The City has long been known for its innovative people and its exploration of ideas that have changed the world.

In Palo Alto, our history has always been about the future.

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