



SONOMA COUNTY
FIVE-YEAR
STRATEGIC PLAN
2021–2026



Resilient Infrastructure

Downloadable status update of all RI objectives

1/26/23

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COUNTY OF
SONOMA

Resilient Infrastructure

Report Created On: Jan 26, 2023

Pillar 5

Resilient Infrastructure

Goal 5.1

Invest in County buildings and technology to enhance service delivery and improve employee mobility

Objective 5.1.1

RI1-1 - Design the new County Center to be carbon neutral and zero waste; and pursue carbon reduction and zero waste plans for remaining County facilities.

Summary of Objective Implementation Status

The baseline for the design of new facilities will be the California Green Building Standards Code. The California Green Building Standards Code—Part 11, Title 24, California Code of Regulations—known as CALGreen, is the first-in-the-nation mandatory green building standards code. In 2007, CBSC developed green building standards in an effort to meet the goals of California’s landmark initiative AB 32, which established a comprehensive program of cost-effective reductions of greenhouse gases (GHG) to 1990 levels by 2020. The Board may consider the adoption of the US Green Building Committee's Leadership in Energy and Environmental Design (LEED) formal accreditation program to monitor performance towards sustainability goals to exceed CALGreen requirements within budget constraints.

Staff have engaged Integrated Waste Operations and Sonoma County Waste Management Agency/Zero Waste as a stakeholder in design, construction waste management and for operations during occupancy .

Staff will return to the Board on an alternative that sites new facilities on the existing County Administration Center and investigating procurement methods other than P3.

Key Milestone Update

On March 1, 2022, the Board deferred vote on the Sears site and requested staff to investigate opportunities that would not require site acquisition, maintain current operations during construction and not require rental of temporary offices.

Staff will be returning to the Board with analysis of a potential project located at the County Administration Center on December 6, 2022. The analysis will include bond financing analysis based on a location at the County Administration Center and procured through more typical means including design-build or construction manager at risk, rather than P3. County Government Center is delayed one year.

Coordination and Partnership Update

This objective has direct impacts on several other objectives including:

- RI 1.2 Standards for Office improvements: The new CGC will establish standards that can be applied to existing offices;
 - Development of criteria for the new facilities include establishment of a Space Utilization Standard. This standard will provide a consistent means to allocate space based on the number of staff in a department.
 - The standards will endeavor will reduce carbon impacts through reduction of the building area (positive impacts in construction and in operations and maintenance) , but will also provide opportunities to enhance collaboration in workplace design.
- RI 2.3 Design and build a new, resilient Emergency Operations Center (EOC).: The new EOC will be part of the procurement for the new CGC;
 - The EOC will be referred to as the "Emergency Coordination Center (ECC)"
 - The ECC will include conference facilities which may be used in non-emergency days. Operations of the ECC are projected to expand to accommodate staff supporting ECC sections during emergencies but are anticipated to be available for other uses in other times.
- CAR 2.3 Design or retrofit County facilities to be carbon neutral, zero waste and incorporate resilient construction techniques and materials: design standards for the CGC will be carbon neutral;
 - The baseline for the design of new facilities will be the California Green Building Standards Code. The California Green Building Standards Code—Part 11, Title 24, California Code of Regulations—known as CALGreen, is the first-in-the-nation mandatory green building standards code. In 2007, CBSC developed green building standards

in an effort to meet the goals of California's landmark initiative AB 32, which established a comprehensive program of cost-effective reductions of greenhouse gases (GHG) to 1990 levels by 2020. The Board may consider the adoption of the US Green Building Committee's Leadership in Energy and Environmental Design (LEED) formal accreditation program to monitor performance towards sustainability goals to exceed CALGreen requirements within budget constraints.

- CAR 3.3 Carbon Eliminating Microgrid: As part of CGC's Triple net-zero goal energy independence and self-generation concepts will be utilized.
 - The County is partnering with Pacific Gas and Electric's (PG&E) Sustainable Solution Turnkey program where Investment Grade Audits (IGA) will be performed to identify strategies for incorporation of a microgrid (solar panels and battery storage). The IGA's may also identify financing opportunities in which to fund construction.
 - Currently, the IGA is performing a load analysis of long term electricity requirements of County buildings .

Community, Equity, and Climate Update

Environmental studies, which include opportunities for formal public outreach and public comment, in addition to community and stakeholder engagement processes are planned for the new County Government Center project.

- Following Board direction on December 6, 2022, staff will be prepared to scope and direct consultants to begin environmental studies.

The new County Government Center project will support partnerships with cities and community stakeholders by ensuring fully accessible in-person facilities and remote access systems. Its proximity to other County services will support increased direct access by residents and build social capital through delivery of services.

Staff will work with leads in the Racial Justice and Social Equity Pillar to address the social equity considerations that could be part of the facility needs assessment and design.

-Recent negotiations with labor on Project Labor Agreements (to maximize union participation during construction) indicate common goals to advance social justice and racial equity goals during construction.

Funding Narrative

Funds have been received for procurement, legal consultation through outside counsel, environmental studies and staff support for the County Government Center

Climate Action funds have been received to support energy improvements at the Santa Rosa Veterans Building in addition to installation of a microgrid. Energy improvements were funded for \$901,230 and the microgrid funded for \$870,000

A financing plan will be presented to the Board on December 6, 2011 to seek direction on cost limitations and location. No funds for construction are identified.

Objective 5.1.2

RI1-2 - Adopt design standards for County office improvement projects to maximize opportunities for telework and incorporate revised workstation space standards.

Summary of Objective Implementation Status

Although progress of the New County Government Center is delayed as a location is selected by the Board, the principles and practices of workplace design that facilitate telework are likely to be used are considered industry best practices in the management of existing space. The pandemic has shown the importance of technology tools to facilitate collaboration while working remotely and the importance of facilities to maximize inclusivity. The design of new work places include accommodation of technology and spaces to accommodate remote working team members.

The new County Government Center is endeavoring to incorporate an efficient space utilization standard which allocates space based on a department's staff numbers. Though efficiency is in mind, opportunities to encourage collaboration would be included in the space standard. As we have observed during the pandemic, the ability to collaborate on line has been put to the test and constant improvements made. As the pandemic is winding down, the benefit of carbon reduction is apparent and shifting to a hybrid workforce.

Information Systems Division is working in partnership with Public Infrastructure Facilities Development on "Hot Desk" and conference room prototypes that incorporates technologies and infrastructure. These efforts are aimed to enhance the collaboration, maximize productivity through technology and to provide ergonomic and aesthetically pleasing work stations through commercial office furniture vendors. Such efforts are being applied to current space reconfiguration projects such as ISD space at 370 Administration Drive. Prototypes will be available in January 2023 and will guide space planning and building infrastructure needs.

Key Milestone Update

County Government Center - Delayed from January 5, 2021. Awaiting Board direction on location December 6, 2022

Coordination and Partnership Update

This objective has direct impacts on the following other objectives:

- CAR 2.3 Design or retrofit County facilities to be carbon neutral, zero waste and incorporate resilient construction techniques and materials.: design standard for the CGC will be carbon neutral
 - Awaiting Board direction on location and cost for CGC
 - Coordination with Sonoma Waste Management in progress to identify strategies for incorporating zero waste in design
 -

Community, Equity, and Climate Update

Equity in the workplace is envisioned to be a primary factor in the design of the new facility. As such the new County Government Center project is awaiting direction on location and cost from the Board. Several design principles are being developed with smaller scale space reconfigurations but can be consistently applied and repeatable.

Funding Narrative

County Government Center is funded for consultant, legal, environmental and some staff but not for design or construction.

Objective 5.1.3

RI1-3 - Develop and implement technology tools that enhance employees' ability to work remotely and promote virtual service delivery models in order to reduce County facility space needs.

Summary of Objective Implementation Status

Microsoft Office 365 Deployment

The County wide implementation and migration to Microsoft Office 365 is underway and on track for completion by June, 2023. This project is divided into two phases:

1. Phase 1 - Migration of County E-mail to Microsoft Office 365
2. Phase 2 - Implementation of Microsoft Office 365 Services

- Teams
- OneDrive
- Sharepoint Online
- Microsoft Office 365 Desktop Suite (Excel, Word, Outlook, Powerpoint)

Phase 1 is now complete and all County e-mail has been migrated to Microsoft Office 365. Additionally, Multi-Factor Authentication has been implemented to provide additional security for County e-mail.

Phase 2 is in progress with an anticipated completion by June, 2023.

Hybrid Workforce

Telework and the needs of a dynamic hybrid workforce has introduced several technical challenges, particularly in respect to utilizing a shared workspace model and incorporating a seamless meeting experience between local and remote staff. In order to address these challenges, ISD has completed a hot desk prototype as well as an updated conference room configuration to address the needs of a hybrid workforce. This prototype will be ready to demo in January 2023. Following initial feedback on the prototype, ISD will develop a solution that will allow County departments to select the appropriate hot desk and conference room configuration that will best suit their needs. ISD will be providing a dedicated staff resource to attend to what is anticipated to be a growing need for County departments.

Key Milestone Update

Microsoft Office 365 Deployment

Phase 1 - Migration of County E-mail to Microsoft Office 365 - Completed June 8, 2022

- Discovery, Analysis, and Design Session - Completed (Oct-Dec, 2021)
 - Kickoff meeting with implementation vendor
 - Analysis of current environment
 - Preparatory technical tasks prior to implementation and migration
 - Establish technical advisory committee
 - Develop project plan
- County E-Mail Migration to Microsoft Office 365 - Completed (Jan-June, 2022)
 - Nearly 4000 employees, 5700 E-mail accounts, and 6 Terabytes of data migrated to Microsoft Office 365
 - Multi-Factor Authentication (MFA) implemented for enhanced security to protect County users from e-mail compromise
 - Coordination with all County departments
 - Timeline
 - Communications Plan
 - Training

- Open House Sessions
- Remote and On Site Support
- Mobile device configuration (Apple and Android)
- Post migration troubleshooting and support

Phase 2 - Implementation of Microsoft Office 365 Services - In Progress

- Microsoft Office 365 Desktop Suite (Excel, Word, Outlook, Powerpoint) - Completed
- OneDrive Migration (U: Drive) - 90% Complete
- Sharepoint Online (Migration of existing Sharepoint sites) - 96% Complete
- Teams
 - Teams client software deployed - Completed
 - Training - In Progress
- Projected Completion Date - June, 2023

Hybrid Workforce

- Prototype for Hot Desk and Conference Room Configuration
 - Check-In Kiosk
 - Virtual Assistant
 - Cubicle Configuration
 - Calendar Integration
 - Zoom and Microsoft Teams Integration
 - Wireless screen sharing to video conference system
 - Enhanced video and audio capabilities in conference room
 - Ready to demo January 2023

Coordination and Partnership Update

No activity has occurred in regards to city partnerships as the focus has been on implementation and migration of services to Microsoft Office 365. However, several ISD executive and management level staff attended the California Counties Information Services Directors Association (CCISDA) conference Oct 30-Nov 3, 2022. This conference is attended by IT executives from 58 counties within California with the goal of sharing ideas and solutions with our peers on common challenges and initiatives. Future goals include collaboration with cities within Sonoma County to share lessons learned with the Microsoft Office 365 deployment and discuss projects related to infrastructure resiliency.

Community, Equity, and Climate Update

In addition to the migration to Microsoft Office 365, ISD is currently evaluating the viability of shifting traditional data center compute and storage services to a Cloud based infrastructure. The goal is in alignment with providing the ability to access critical applications and services from anywhere, anytime, and from any device. A significant benefit of this approach is the reduction of power consumption and e-waste. This effort will begin in April, 2023.

The Microsoft Office 365 project has provided the necessary tools for front line workers assisting underserved communities. Access to key resources such as e-mail, shared documents, collaboration tools, and many more are now available to be used while working in the community, at home, in the office, and any other location. The mobility offered by the new toolset incorporated into the Microsoft Office 365 product line allows County employees to effectively service the needs of our underserved constituents.

Funding Narrative

Funding associated with the Microsoft Office 365 project currently exists within ISD's budget and provides the appropriate revenue source for licensing as well as implementation services. The County allocated \$100,000 in FY 22-23 to address hybrid meeting spaces to support a hybrid workforce.

Objective 5.1.4

RI1-4 - Establish resilient neighborhood/regional and satellite service centers with access to transportation systems in West County, Cloverdale, and Sonoma Valley, as expressed in the Real Estate Master Plan, by 2023 in order to improve equitable public access to services.

Summary of Objective Implementation Status

Since 2014, efforts have been made to identify appropriate locations for neighborhood-based services in County regions to the east (Sonoma, Sonoma Valley), north (Windsor/Healdsburg/Cloverdale), and west (Guerneville).

To the north (Cloverdale), County departments had indicated a preference to set up services in Cloverdale, but there have been no properties large enough to accommodate County departments. Health Services currently leases a small office at 140 So. Cloverdale Boulevard providing behavioral health services. In Sonoma, there has been more available property inventory, however, these properties are primarily retail or medical in nature.

In Sonoma, Health Services has largely relied on sharing space with Sonoma Valley Health Center, an existing non-profit partner agency, and providing services out of County-owned office space within the Sheriff's substation location at 810 Grove Street.

In West County, staff is finalizing acquisition of the BofA building/property at 16390 Main Street in Guerneville, leased by the County since 2006. Acquisition of this property will provide County with stability and opportunities from which to expand services in West County.

In 2018, a one-stop, neighborhood-based services center was established in Petaluma at 5350 Old Redwood Highway, where Human Services and Health Services are co-located, and partner with West County Community Services to provide services to South County residents. In addition to the Old Redwood Highway location, Health Services utilizes office space within the Petaluma Health Center to provide WIC services.

With respect to mobile services: Since the initial plan to implement neighborhood-based services, the focus has been to identify feasible locations for neighborhood-based services through existing stationary, brick-and-mortar-type facilities. General Services staff will pursue mobile services alternatives in North County (Windsor-Healdsburg-Cloverdale) and other areas, where necessary and as requested by County departments, as an alternative to stationary office satellite locations.

Key Milestone Update

Currently, General Services is finalizing the acquisition of the former BofA commercial office property, comprised of 7,784 Sq. ft. of office space in West Sonoma County, centrally located in downtown Guerneville. The acquisition will guarantee the continuity of services provided at this location by the County Health Services and Probation Departments, together with West County Community Services, to residents of the lower Russian River area.

In addition, the County Community Development Commission operates a warming shelter program through use of the Veterans Memorial Building in downtown Guerneville, to provide a year-round, round-the clock (24/7) facility to address the County's homeless service needs in West County, and to help prevent the spread of COVID.

General Services is also currently investigating leasing, with an option to purchase, a commercial office property, comprised of approximately 5,000 SF of office space, located on the Highway 12 corridor, approximately 1.5 miles from downtown Sonoma, to provide neighborhood-based services for residents in the Sonoma Valley area.

Coordination and Partnership Update

At the Petaluma satellite and Guerneville satellite service locations at 5350 Old Redwood Highway and 16390 Main Street, respectively, Health Services partners with West County Community Services. West County Community Services currently operates the Petaluma Peer Recovery Center (PPRC), which serves behavioral health clients identified in the Mental Health Services Act Plan, including transition-age young adults, adults, older adults with serious mental illness, and consumer and family organizations. In addition, Health Services is also embedded with Petaluma Health Center and Sonoma Valley Health Center, sharing space at those locations to provide WIC services to clients in those communities.

Community, Equity, and Climate Update

In addition to co-locating with West County Community Services at the Guerneville and Petaluma locations to augment County services and to make services more easily accessible to local residents, the County departments themselves provide outreach services and referrals, and partner with other service providers, strengthening the spectrum of services provided to clients through neighborhood-based service sites:

Health Services' regionally-based Community Mental Health Centers (CMHC) provide intensive community services and support, providing enhanced mental health services to clients at sites in Guerneville, Petaluma, Sonoma, and Cloverdale. The Guerneville site is part of the Behavioral Health Division's CMHC system of care, which provides services to adults with serious mental illness who are homeless and/or have co-occurring alcohol and other drug problems.

Health Services' Mobile Support Teams (MST) provide assistance and support to law enforcement in responding to mental health crisis calls in the community. The MST provides linkage and referral to treatment services, peer support, family support, and other community resources as needed. The MST team works closely with service providers, crisis stabilization, detox, and other community resources. MST staff conduct follow-up calls to all individuals seen in the field in an effort to ensure individuals are accessing needed support.

Funding Narrative

In February 2022, funding was approved by the Board for acquisition of an RV-type vehicle, which would be utilized by Human Services and Department of Child Support Services for delivery of County neighborhood-based services.

In June, 2022 the Board of Supervisors authorized the purchase of the Bank of America building in Guerneville for a total acquisition cost including critical improvements of \$3,105,371. The cost was primarily funded with \$2,981,834 from Deferred Maintenance. The Bank of America building will provide satellite services to the communities in west county.

Goal 5.2

Invest in capital systems to ensure continuity of operations and disaster response.

Objective 5.2.1

RI2-1 - Strengthen critical communications infrastructure, interoperability, and information technology tools relied upon during disasters.

Summary of Objective Implementation Status

FOCUS AREA ONE: COMMUNICATIONS TOWER AND SITE IMPROVEMENTS

Public Infrastructure Real Estate and Capital Projects has been working on several projects to improve infrastructure needs at various locations. The communications sites are critical to relaying communications signals for law enforcement agencies, fire and emergency services. Such projects include:

- Meyers Grade Tower and Vault improvements
- Sleepy Mountain Road improvements to access the tower
- New vault at Pine Mountain
- New tower at Mt. St. Helena
- New Tower at Sonoma Mountain

Public Infrastructure is also renegotiating lease rates on all county-owned towers in which to increase revenue to help with maintenance and improvements for the towers. Increases are based on market rates for government and commercially owned towers in Sonoma County and neighboring counties.

To date fire cameras have been installed at Mt. Jackson, Pine Mountain, Geysers Peak, Oakridge, Rockpile, Sonoma Mountain, Sleepy Mountain and Mt. Burdell. Other locations are currently being considered by Department of Emergency Management.

The Sheriff's Office has completed the Base Station Radio project, which included the replacement of two channels that allow the Sheriff's Office to maintain County-wide emergency radio coverage. Additionally, the Sheriff's Office ordered equipment to replace the network management systems at remote communications sites to provide reliable and enhanced monitoring, which includes fuel levels on generators used during emergency events.

FOCUS AREA TWO: TELECOMMUNICATIONS AND INFORMATION TECHNOLOGY TOOLS

The Information Systems Department has focused on several initiatives to enhance infrastructure resiliency as well as addressing the heightened Cybersecurity threat landscape that continues to target government agencies. The Information Systems Department is focused on the following initiatives that are currently underway:

- Microsoft Office 365 Deployment – On track for completion by June 2023. Details regarding this project are highlighted in Resilient Infrastructure Implementation Plan 1.3.
- Hybrid Cloud Design Advisory
 - This is a multi-phase project to develop a road map for integrating cloud services with the County of Sonoma network.
- Cybersecurity
 - In order to meet the ongoing and increasing demands in the realm of Cybersecurity, the following RFPs are in progress:
 - SIEM and 24/7 Cybersecurity Monitoring
 - Deploy a Security Information and Event Management (SIEM) system and implement a 24/7 incident and response managed service.
 - IT Security and Consulting Services
 - Being a resource to provide best practice guidance and other cybersecurity related advice, including cloud computing, business continuity, and risk management.

- Consulting on architecture, industry trends, technology, etc.
- Supporting ISD with both strategic and tactical planning.
- Guidance and assistance with researching and applying for grants.

Key Milestone Update

FOCUS AREA ONE: COMMUNICATIONS TOWER AND SITE IMPROVEMENTS

Sheriff's Office Telecommunications Projects

Project 1 – Base Station Radios

- Project Complete

Project 2 – Network Management System

- In Progress
- Equipment Ordered - Completed
- Equipment Shipped – Completed
- Equipment Delivered – In Progress
- Equipment Installed – Not Started
- Equipment Tested – Not Started
- Equipment Operational – Not Started

FOCUS AREA TWO: TELECOMMUNICATIONS AND INFORMATION TECHNOLOGY TOOLS

Following are key milestones that have been achieved:

- Microsoft Office 365 Deployment
 - E-mail migration completed June 8, 2022
 - Teams, OneDrive, Sharepoint Online, and Office 365 Desktop Suite deployment on track for completion by June, 2023
 - Hybrid Cloud Design Advisory
 - Phase 1 focused on discovery and documentation of current state architecture. This has been completed.
 - Phase 2
 - Workshops started June 20, 2022
 - Focus is on strategic goals, hybrid cloud technology solutions, cost analysis, and development of road map for future state technical architecture.
 - Projected completion date:
 - Original date: Sept 16, 2022
 - Revised date: Mar 31, 2023
- The date needed to be revised as ISD resources have been focused on the Microsoft Office 365 deployment.

- Phase 3
 - Phase 3 to begin April, 2023
 - Review proposed technical architecture and financial impact
 - Begin PoC (Proof of Concept) phase to test and evaluate proposed technology
 - Future activities contingent on outcome of cost analysis and PoC

- Cybersecurity

- SIEM and 24/7 Cybersecurity Monitoring RFP dates:
 - 8/28/22 - Release request for proposals
 - 9/6/22 - Proposer's questions due by 5:00 PM
 - 9/20/22 - County's responses to questions due
 - 10/12/22 - Proposals due by 2:00 PM
 - 10/25/22 - Proposals evaluated by County
 - 12/2/22 - Interviews and demonstrations conducted
- IT Security and Consulting Services RFP dates:
 - 9/21/22 - Release request for proposals
 - 10/4/22 - Proposer's questions due by 5:00 PM
 - 10/18/22 - County's responses to questions due
 - 11/1/22 - Proposals due by 2:00 PM
 - 11/22/22 - Proposals evaluated by County
 - 12/2/22 - Interviews conducted

Coordination and Partnership Update

No activity has occurred in regards to city partnerships as the focus has been on implementation and migration of services to Microsoft Office 365 in addition to the Hybrid Cloud and Cybersecurity initiatives. However, several ISD executive and management level staff attended the California Counties Information Services Directors Association (CCISDA) conference Oct 30-Nov 3, 2022. This conference is attended by IT executives from 58 counties within California with the goal of sharing ideas and solutions with our peers on common challenges and initiatives. Several discussions and workshops detailed the challenges that Counties are facing in regards to resiliency and Cybersecurity. Future goals include collaboration with cities within Sonoma County to share lessons learned with the Microsoft Office 365 deployment and discuss projects related to Cloud services and Cybersecurity.

Community, Equity, and Climate Update

The goal of the Resilient Infrastructure Pillar is to ensure that essential services will be provided to Sonoma County residents - and the agencies that serve them - in the event of disaster. Communications infrastructure, collaboration tools, critical applications, and many more require the ability to be available at all times, regardless of the circumstances. Additionally, these objectives will reduce the carbon footprint of the data center as services are shifted to a Cloud based infrastructure. The effort to shift additional data center services to the Cloud will begin in April, 2023.

Funding Narrative

FOCUS AREA ONE: COMMUNICATIONS TOWER AND SITE IMPROVEMENTS

The Board of Supervisors awarded the Sheriff's Office \$356,000 for the Emergency Base radio project, \$136,000 for the Network Management System Replacement and \$70,000 for the Microwave Backhaul Replacement. The Microwave Backhaul Replacement project will not move forward due to a lack of suitable technology solutions.

FOCUS AREA TWO: TELECOMMUNICATIONS AND INFORMATION TECHNOLOGY TOOLS

Funding associated with the the Hybrid Cloud Design Advisory currently exists within ISD's budget and provides the appropriate revenue source for consultant services. No additional funds are requested to complete these initiatives. The recommendations from the the Hybrid Cloud Design Advisory will be reviewed to determine the potential fiscal impact and financial needs for future initiatives. The SIEM and 24/7 Cybersecurity Monitoring and IT Security and Consulting Services RFPs will determine the one-time and ongoing costs associated with implementation and consulting services.

Objective 5.2.2

RI2-2 - Invest in electric power resiliency projects at County facilities, including Veteran's Buildings, used for evacuation sites, warming/cooling centers, or as alternate work facilities for delivery of critical services.

Summary of Objective Implementation Status

The Board has approved the County's participation in PG&E's Sustainable Solutions Turnkey (SST) program. In this program the County will obtain "investment grade" audits (IGA) of the energy and water use in our existing buildings and will create an Energy Master Plan (EMP). To assess the required size the microgrid, PG&E's consultant, Willdan Energy is evaluating energy demands of various systems on the county properties and opportunities for energy reduction projects including changing light fixtures, HVAC system changes, water heaters, insulation and sealants. The Microgrid scope will be one of the investment grade audits to present to the board as part of the energy masterplan to consider new facility energy needs and of those buildings seen to remain in the foreseeable future. The IGA's will provide options for financing.

Concurrently, the solar panels at the Los Guilicos campus are under study to consolidate and refurbish County owned panels with panels under power purchase agreement on County property. This investment grade audit is investigating the feasibility of adding a battery arrays to serve not only to shave peak hour energy usage but to provide a resilient and sustainable power source to serve the campus, which includes the Juvenile Justice Center, Valley of the Moon Children's Home, Crestwood Mental Health Facility and Los Guilicos Village.

A third microgrid is being planned for the Santa Rosa Veteran's Building. This building was extensively used as a shelter during emergency declarations and as cooling center during Public Safety Power Shutoffs. The importance of this asset was made apparent during the five wildfires and multiple PSPS events that occurred in recent years. Although the building was recently provided with an emergency generator, emissions from the diesel powered generator is against the County's goals towards carbon reduction but will remain as a reliable backup should an emergency be protracted and offer the opportunity for the microgrid to recharge.

The Airport Photovoltaic Canopy Project is complete and operational. Since it's completion in January 2022, the system generates 11.08 MWh of electricity and saved 13,400 lbs of carbon a month. The system size is 780kW.

Key Milestone Update

Investment Grade Audits are anticipated to be submitted in spring 2023

Coordination and Partnership Update

- CAR3-1 Design or Retrofit County facilities to be carbon neutral, zero waste and incorporate resilient construction: County Government Center to incorporate CAL Green for building standards with options for greater levels of performance to be presented to the Board. CAL Green is incorporated as a standard to current projects in design.
- CAR3-3 Invest in County-owned facilities, establishing carbon eliminating microgrid technology: Investment Grade Audits being developed for County Administration Center, Los Guilicos and Santa Rosa Veterans Building.
- RI1-1 Design new County Government Center to be carbon neutral: delayed pending Board direction on site and cost.

Community, Equity, and Climate Update

Community, Equity and Climate considerations are advancing with the Los Guilicos, Santa Rosa Veterans Building and Airport solar projects. Implementation of the County Center microgrid is delayed pending Board direction on site and cost of the total project.

Funding Narrative

Climate Action funds in the amount of \$970,000 have been approved by the Board towards the Santa Rosa Veterans building Microgrid.

Financing opportunities for other projects will be identified by PG&E with the Investment Grade Audit.

Objective 5.2.3

RI2-3 - Design and build a new, resilient Emergency Operations Center (EOC).

Summary of Objective Implementation Status

The ECC is currently proposed as a component of the new County Government Center (CGC) project. The ECC also remains as a requested project in the 2023 Capitol Improvement Program. Additional consideration of the potential downtown Santa Rosa location for the CGC also delayed selection of the site for the CGC.

Key Milestone Update

Staff have completed preliminary facility scoping and determined approximate initial allocations of facility space by function - total of 13,000 sq ft.

The County Government Center project is delayed pending Board direction on location and cost.

Coordination and Partnership Update

The County may collaborate with the City of Santa Rosa to co-locate the City's EOC with the ECC. Co-location would support increased pre-disaster and disaster response activities as well as realize cost savings in providing both facilities with safety, security, emergency power, and communications infrastructure. As funding and space permit, the ECC may also support direct integration of community-based, education and private sector partner organizations in both pre-disaster preparedness efforts as well as response activities.

Community, Equity, and Climate Update

- Current scope for the ECC includes drought and fire-resistant design and landscaping features that will serve as a community demonstration site for wildfire home-hardening design, materials and technologies.
- Current scope for the ECC includes the potential to support partnerships with cities and community stakeholders by ensuring fully accessible in-person facilities, remote access systems. Its proximity to other County services will support increased direct access by residents and build social capital before, during and after disasters.
- Staff will work with leads in the Racial Justice and Social Equity Pillar to address the social equity considerations that could be part of the facility needs assessment and design. While not intended to provide direct services to residents in a disaster, the ECC could include enhanced direct community education and training facilities, expanded engagement communications systems, space and support for community advocacy organizations, and/or increased transparency of County disaster response information and actions.

Funding Narrative

The ECC is currently proposed as part of the new County Government Center (CGC) Public-Private-Partnership (P3) procurement project embodying a design/build/finance/operate and maintain approach. The CGC financing plan is currently in progress but the Deferred Maintenance fund is likely to be a significant part of the plan. Although state and federal funding for EOC facilities is effectively non-existent, DEM is currently working to identify the potential for a federal earmark as a funding source.

Goal 5.3

Continue to invest in critical road, bridge, bicycle, and pedestrian infrastructure.

Objective 5.3.1

RI3-1 - Continue to maintain road segments, including designated turnouts where feasible, increase efforts on vegetation removal and drainage features and improve pavement conditions in neighborhoods.

Summary of Objective Implementation Status

PG&E Settlement Tier 1 for \$21.36M and Tier 1 Plus for \$13.44M, Pavement Repairs to roads damaged by debris haul from the 2017 Fires

Repair of approximately 48.2 miles of Tier 1 designated roads was completed in 2022. The Board delegated authority to award this contract (C22101) on March 22, 2022 and work was completed in December 2022.

Engineering, design, and environmental permitting is nearing completion on approximately 98.3 miles of Tier 1 Plus paving projects scheduled for construction in 2023.

PG&E Settlement Tier 2 consists of twenty-three Board directed infrastructure projects which are currently in various stages of design and/or construction. TPW anticipates completing all these projects using the \$20M of Board allocated funding in the 2024-2025 time schedule, as originally outlined.

Increase TPW's vegetation maintenance removal policy from two feet to four feet from the edge of pavement. Revision made to our Road Assessment Guidelines in 2020.

2021 Culvert Replacement Project, C21310 included 10 culvert replacements

Include drainage improvements in the annual paving work under the Pavement Preservation Program included in 2022 PPP, C22401, included replacement of 42 culverts

Key Milestone Update

PG&E Settlement Tier 1 and Tier 1 Plus, Pavement Repairs

Tier 1 complete in 2022

Tier 1 Plus to be completed in 2023.

PG&E Settlement Tier 2, on schedule to deliver in 2024-2025

2021 Culvert Replacement project C21310 replaced 10 culverts

2022 PPP replaced 42 culverts

Coordination and Partnership Update

TPW's goals are unique in that they are limited to work in the County's public right-of-way. We are committed to looking for partnerships with neighboring cities.

TPW has partnered with PRMD in 2022 on their project to identify existing culverts contributing higher sediment loads to the San Francisco Bay watershed. Focusing culvert replacement in these locations meets the partnership goals of this objective.

Community, Equity, and Climate Update

The drainage culvert replacement projects and the roadway turn-out projects are spread throughout the County in geographically isolated areas to promote equitable services. Reports from the public of localized maintenance issues through our website and SoCoReportIt application provide public engagement and ensure equity in service.

Climate effects are anticipated to be reduced with the removal of fire fuels from our increase vegetation removal standards, minimizing wildfire disaster conditions.

Funding Narrative

The Board of Supervisors approved \$54.8M in operating transfers from the PG&E Settlement Fund to TPW for completion of Tier 1, Tier 1 Plus, and Tier 2 on December 15, 2020. In addition, the FY2021-22 TPW approved budget included \$13.13M in Board approved operating transfers to support the annual Pavement Preservation and Culvert Replacement programs. The \$13.13M included contributions from the General Fund, Refuse Franchise Fees, and Measure L. The Board has made a long-term commitment to support these programs and the Department expects funding to be included in annual budgets for the foreseeable future.

In addition, TPW uses annual allocations from the Road Maintenance and Rehabilitation Account (SB1) to supplement these projects as necessary.

Objective 5.3.2

RI3-2 - Increase investment by 5% annually on preventive maintenance on all road infrastructure/facilities.

Summary of Objective Implementation Status

In order to meet this objective, TPW is committing additional resources to improve drainage (flood mitigation) and expand vegetation management (fire mitigation) efforts within the road right of way. In order to increase maintenance services in these areas by 5% annually the Department is focusing on developing community partnerships, implementing new programs and undertaking additional projects. Examples of these partnerships, programs and projects include:

- Partner with workforce development organizations which provide job skills training and increase ongoing vegetation management efforts
- Identify and allocate resources for fire fuel reduction in geographically isolated areas
- Increase fire fuel reduction in the right of way by increasing vegetation clearing from the edge of asphalt from two feet to four feet.
- Implement a Hazardous Tree Removal Program with input from the Board and community at large
- Review and update TPW's Vegetation removal policy on a regular basis

The following is a list of partnerships, programs, and projects undertaken by the Department in 2021 and 2022.

- Partnerships with the following organizations to perform over 25 miles of vegetation removal.
- Cavedale and Trinity Roads, led by the Maycamas Fire Safe Council
- Sweetwater Springs/Mt. Jackson, led by Circuit Riders
- Wilshire, Crystal, Donner and Dana Drives, led by the Wilshire Heights Mutual Water Company
- Partnership with Northern California Conservation Corps to perform fire fuel reduction work within the road right of way along five miles on Grove Street near Sonoma and in and around Occidental. These roads serve as key emergency egress routes serving approximately 6,000 total residents.

Implementation of a Hazardous Tree Removal Program, including:

- Identification and removal of 110 Eucalyptus trees in the Santa Rosa Rural Cemetery (project W22702).
- Identification of hazardous trees along 8th St East in Sonoma (project W22701). TPW is currently working to resolve right-of-way issues with plans to begin tree removal in 2023.
- Identification and removal of hazardous trees along Main Street, Petaluma Hill Road, and Adobe Road in Penngrove (project M22101) by Road Maintenance crews in Spring 2022.
- Identification and removal of hazardous eucalyptus trees near Ross Road in Sebastopol (project W22704) in Spring 2022

Key Milestone Update

Miles of fire fuel reduction in geographically isolated areas

- The department completed 30 miles of roadside fire fuel reduction.

Number of hazardous trees removed

- The Rural Cemetery project removed 110 eucalyptus trees deemed hazardous.

Coordination and Partnership Update

Job skills training for vegetation maintenance

- TPW partnered with State of California Human Development (CHD) in a program that provides job skill training for road maintenance activities

Fire fuel reduction in geographically isolated areas with community partnerships, amounting to over 25 miles of vegetation removal in Sonoma County:

- Cavedale and Trinity Roads, led by the Maycamas Fire Safe Council
- Sweetwater Springs/Mt. Jackson, led by Circuit Riders
- Wilshire, Crystal, Donner and Dana Drives, led by the Wilshire Heights Mutual Water Company

Fuel reduction in the right of way

- TPW partnered with Northern California Conservation Corps to perform fire fuel reduction work within the road right of way. Work is being performed along a total of five miles along Grove Street near Sonoma and in and around Occidental.

Job skills training for vegetation maintenance

- TPW has partnered with State of California Human Development (CHD) in a program that provides job skill training for road maintenance activities including vegetation removal, culvert cleaning and ditch re-establishment in the LNU Fire areas, including Sweet Water Springs Road.

Community, Equity, and Climate Update

The fire fuel reduction efforts being performed Countywide provide improved evacuation routes in geographically isolated areas. In addition, TPW is actively supporting community groups in their efforts to reduce fire fuel. The partnerships with community groups engage the public and assist in implementation of the services. The drainage culvert projects are spread throughout the County in geographically isolated areas to promote equitable services. Reports from the public of localized maintenance issues through our website and SoCoReportIt app provide public engagement and ensure equity in service.

Funding Narrative

Through traditional Roads funding sources such as annual allocations from State Highway Users Tax Account (HUTA) and Road Maintenance and Rehabilitation Act (SB1) as well as grants, and one-time allocations by the Board TPW spent approximately \$12.75M on vegetation management efforts from July 1, 2020 through June 30, 2022.

In addition, TPW has been able to leverage our financial resources through community partnerships with workforce development agencies and other community organizations focused on disaster mitigation. The following is a list of resources TPW will be using to continue this work.

- Job skills training for vegetation maintenance
 - TPW partnered with State of California Human Development (CHD) in a program that provides job skill training for road maintenance activities. The program provides the labor at no cost to the TPW.
- Fire fuel reduction in geographically isolated areas
 - Sonoma County Board of Supervisors provided one-time PG&E Settlement funding
- Fuel reduction in the right of way
 - This work cost \$78,670 and was funded by Proposition 68.
- Hazardous Tree Removal Program
 - This work will be funded with one-time PG&E Settlement funds of \$2,500,000.

- TPW's Vegetation removal policy
 - The ongoing increased cost associated with this policy change will be funded with road maintenance funds from SB1.
- Increase culvert replacements

The ongoing increased cost for the culvert replacement contract will be funded with road maintenance funds supplemented by SB1 funds.

- The ongoing increased cost associated with this policy change will be funded with road maintenance funds.

Objective 5.3.3

RI3-3 - Invest \$5 million by 2024 on new pedestrian and bicycle facilities, and adopt maintenance guidelines on roads to consider bicyclists and pedestrians.

Summary of Objective Implementation Status

TPW has three active projects which meet the objective of investing \$5 million by 2024 for new pedestrian and bicycle facilities:

- Arnold Drive Bike Lanes, C18121 - The project involves shoulder widening to add bike lanes on Arnold Drive between Country Club Lane and Madrone Road. This project will provide just under 2 miles of new bike lanes in the Sonoma area. Currently in the design phase, the project is expected to be constructed in 2024.
- Mark West Springs Sidewalk C21303 - The Mark West Springs Sidewalk project has advanced to construction, just underway in October 2022. The project involves new sidewalk on both sides of Mark West Springs Road between Old Redwood Highway and Ursuline Drive. This will provide one-half mile of new sidewalk serving the Larkfield /Wikiup community in northeast Santa Rosa area.
- Crocker Road Bridge Sidewalk Addition C21903 - The project includes the addition of a wide sidewalk on the north side of the bridge, providing a much-needed pedestrian path for the Cloverdale area community. This project has advanced to the construction phase with an expected start date in 2023, one year ahead of proposed 2024 date.

Road Assessment Guideline created in 2019 includes provisions for bike lanes and pedestrians considerations in the inspection, assessment and repair of roadways.

Key Milestone Update

The measurement metric for the three capital projects will be an approved construction contract award from the Board and the completion of the bike lanes and sidewalks.

- Arnold Drive Bike Lanes – Board approval of design contract July 13, 2021
- Mark West Springs Sidewalk - Board approval of funding agreement with SCTA November 11, 2022, Director award of construction contract September, 2022
- Crocker Road Bridge Sidewalk Addition – Design, Environmental and right of way phases are complete, expecting E-76 from Caltrans for Construction phase, construction expected to begin 2023

Coordination and Partnership Update

- The Arnold Drive Bike Lane Project will begin community outreach efforts in the Spring of 2023.
- The Arnold Drive Bike Lane project has overlap with the Climate Action and Resiliency Strategic Plan Pillar, through TPW's Bikeable Sonoma County project. We were successful in receiving Climate Resiliency funding of \$500,000 from the Board in Oct 25, 2022.
- The Mark West Springs Sidewalk project is the result of community coordination in the aftermath of the 2017 fires.
- TPW will coordinate with the City of Cloverdale to improve infrastructure and connectivity with the new sidewalks to be constructed on Crocker Road Bridge.

Community, Equity, and Climate Update

The capital projects are distributed around Sonoma County in the east, north and central portions of the County creating geographic equity of services. The design phase of these projects includes public engagement through public meetings and other community outreach efforts.

The capital projects are expected to provide the following benefits to their communities:

- Additional bike lanes on Arnold Drive will provide an alternative mode of transportation in disadvantaged neighborhoods within the Sonoma Valley area.
- Sidewalks on both sides of Mark West Springs Road will provide Riebli Elementary School and fire impacted neighborhoods in the Mark West area with a safe pedestrian pathway to local retail shops and services.
- The added sidewalk on the Crocker Road Bridge will provide a pedestrian link between disadvantaged neighborhoods east of Highway 101

and downtown Cloverdale shops and businesses. In addition, the improvements will provide safe access to the Russian River for Cloverdale residents living west of Highway 101101.

By adding to the existing network of bicycle and pedestrian pathways, TPW is creating a more expansive transportation grid for county residents and visitors. For lower income populations, bicycle and pedestrian routes offer a viable alternative to owning and operating a passenger vehicle. In addition, for the community at large safe bicycle and pedestrian facilities, provide a variety of advantages including reduction of carbon emissions and health benefits associated with regular exercise.

The road maintenance guidelines and resulting activities will benefit all communities in Sonoma County, creating geographic equity of services and providing viable alternate modes of transportation.

Funding Narrative

Funding for pedestrian and bicycle facilities comes from multiple sources including:

- Traditional Roads funding sources including allocations from State Highway Users Tax Account (HUTA) and Road Maintenance and Rehabilitation Act (SB1).
- Grants from external agencies such as SCTA (Measure M Funds), and FHWA.
- One time allocations of County funding from the Board of Supervisors

Arnold Drive Bike Lanes

The project cost is estimated at \$4 million and includes tree removal, environmental permitting for lengthening drainage structures, stormwater treatment, right-of-way acquisition and utility relocation. SCTA's Measure M one-time funding in the amount of \$2,350,000 is programmed and Climate Resiliency funding of \$500,000 was just secured. We are looking for the remaining \$1,150,000 in future Federal funding or SCTA's future Go Sonoma program or other funding sources for construction funds in 2024.

Mark West Springs Sidewalk

Project cost is estimated at \$3.4M and including \$1M of one-time Measure M funds through a cooperative funding agreement with SCTA, \$1.9M of PG&E Tier 2 Settlement funds, and reprogramming of \$450K of District 4's PPP funds. Any additional costs will be funded with TPW's annual allocation of SB1 funding.

Crocker Road Bridge Sidewalk Addition

The estimated project cost of \$4 Million includes one-time Federal Bridge funding and local match of 11.47% in the amount of \$458,800. Funding for this local match will come from traditional Roads funding sources including allocations from State Highway Users Tax Account (HUTA) and Road Maintenance and Rehabilitation Act (SB1).

Road Maintenance Guidelines require no additional funding for this on-going policy.

Objective 5.3.4

RI3-4 - Identify and retrofit bridges in County that are at high risk for damage during earthquakes.

Summary of Objective Implementation Status

Bridge projects are different from standard road construction projects as longer lead times are required for design, environmental permitting, and acquisition of right-of-way. In addition, our local communities are much more engaged and feel greater ownership of proposed bridge projects. TPW recognizes and supports this engagement through community outreach and public hearings. The result is the typical timeframe for completion of a bridge project is a minimum of 7 years and can take as long as 20 years.

TPW has 16 active bridge replacement or retrofit projects, nine of which will include seismic improvements. The nine seismic retrofit projects are:

- Boyes Blvd – Bridge replacement project completed February 4, 2022
- Little Wohler – Bridge replacement project substantially complete December 2022
- Big Sulphur – Advanced from design phase to right of way phase
- Big Wohler – Advanced from design phase to right of way phase
- Chalk Hill – Design Phase
- Lambert – Feasibility / Preliminary Design Phase
- Monte Rio – Advanced from design phase to right of way phase
- Pena – Preliminary Design Phase
- Watmaugh – Advanced from design phase to right of way phase

Our department has completed construction on two of the nine bridges needing seismic upgrades and has advanced four from the preliminary design/environmental phase to the right of way phase. TPW is planning on moving the four bridges currently in right of way phase into the construction phase as soon as 2024, pending successful r/w acquisition. TPW is committed to delivering the remaining three bridge projects in the next 5-10 years, as they are currently in the preliminary design phase. This staggered approach allows our bridge program to deliver the projects listed above and take add new bridges as current projects are completed and new funding is secured.

Key Milestone Update

Completed 2 projects: Boyes Blvd and Little Wohler

Advanced to r/w phase on 4 projects: Big Sulphur, Watmaugh, Monte Rio and Big Wohler

Coordination and Partnership Update

TPW routinely coordinates with neighboring cities on construction projects as needed. TPW will partner with community groups as the opportunities arise.

Community, Equity, and Climate Update

These projects fall in all areas of unincorporated Sonoma County, ensuring that residents have geographically equitable services. TPW pursues and leverages federal funding for all bridge projects. Contracting includes Disadvantaged Business Enterprise (DBE) goals to encourage participation of small, minority and women owned businesses.

Public engagement plays an important role in our bridge projects. During the preliminary engineering and design phase, we host numerous public meetings to seek community input on a variety of design factors. Advance public notification to the nearby community is issued in both English and Spanish languages. We accept all forms of communication to ensure we receive full and equitable input.

As the next four projects progress to the construction phase, anticipated in 2024, outreach efforts will continue.

Funding Narrative

Due to the high cost of bridge projects (typically between \$8M - \$20M), TPW secures grant funding through the Federal Highway Administration (FHWA) before proceeding with design and construction of bridge projects. FHWA has several funding programs that allow TPW to pursue bridge retrofit and replacement projects with local match requirements of between zero and 11.47%. These programs are administered through CalTrans and eligible costs include design, environmental permitting (except CEQA), right of way acquisition, and construction. The County uses traditional Roads funding sources including allocations from State Highway Users Tax Account (HUTA) and Road Maintenance and Rehabilitation Act (SB1) to satisfy the local match requirement.

Goal 5.4

Implement countywide technological solutions to promote resiliency and expand community access.

Objective 5.4.1

RI4-1 - Leverage funding and seek grants to expand communications infrastructure within the community to improve equitable access to broadband, wireless, and cell phone services.

Summary of Objective Implementation Status

In June 2021, the Economic Development Department received direction from the Board of Supervisors to evaluate governance options to expand broadband access in the County of Sonoma. Staff is currently evaluating programs and governance models that could address adoption and infrastructure challenges for the Board's consideration. Staff have applied for two grants, and recently received notice of intent to award:

A ~\$500,000 Local Agency Technical Assistance (LATA) grant (California Public Utilities Commission) to fund the completion of the County's high-level design and low-level design for broadband infrastructure for the unserved and underserved unincorporated areas, as well as funding the development of low-level, shovel-ready network designs for priority areas in and around those same areas. A California Advanced Services Fund (CASF) Consortia Grant for \$500,000 per county per year for two years. The consortium region includes Napa, Sonoma, Mendocino, and Marin counties, for a total of \$4 million in CASF funding. This grant would fund the development of community programs and environmental permitting.

On December 14, 2021, staff received three million in American Rescue Plan Act funding to enhance broadband availability and adoption.

Key Milestone Update

Staff received three million in American Rescue Plan Act funding for initial broadband expansion efforts and recently received notices of intent to award for two external grant applications. Staff are analyzing options for broadband infrastructure expansion while the state compiles data identifying unserved and underserved areas that need broadband fiber and develops funding programs for infrastructure.

Coordination and Partnership Update

Staff met with stakeholders including community groups, regional partners, and internet service providers throughout the year to communicate plans and surface opportunities for collaboration. Staff has also connected with city managers and key staff to discuss urban connectivity needs and opportunities for partnership.

Staff is also exploring how to best utilize their membership with Golden State Connect Authority to take advantage of the different funding opportunities and deployment resources available.

Community, Equity, and Climate Update

A key component of the LATA grant program is the application of census data to determine the demographics of each of the respective locations in the final provided designs. Once the high-level design process is complete, demographic census data will be overlaid to help determine select priority areas within the County. As part of this process, the County will also determine if data from the Portrait of Sonoma can be used to provide additional demographic information.

Funding Narrative

In December 2022 the Board of Supervisors accepted a \$500,000 Local Agency Technical Assistance (LATA) grant to fund the completion of the County's high-level design and low-level design for broadband infrastructure for the unserved and underserved unincorporated areas, as well as funding the development of low-level, shovel-ready network designs for priority areas in and around those same areas.

The County worked with the North Coast North Bay Broadband Regional Consortium to apply for and receive a California Advanced Services Fund (CASF) Consortia Grant for \$500,000 per county per year for two years. The consortium region, which includes Napa, Sonoma, Mendocino, and Marin counties, total is four million. This grant will fund the development of community programs and environmental permitting.

On December 14, 2021, staff received three million in American Rescue Plan Act funding to enhance broadband availability and adoption.

Objective 5.4.2

RI4-2 - Leverage existing fiber optic infrastructure and grant opportunities to expand wireless and broadband access across County.

Summary of Objective Implementation Status

In June 2021, the Economic Development Department received direction from the Board of Supervisors to evaluate governance options to expand broadband access in the County of Sonoma. Staff is currently evaluating programs and governance models that could address adoption and infrastructure challenges for the Board's consideration. Staff have applied for two grants, and recently received notice of intent to award:

A ~\$500,000 Local Agency Technical Assistance (LATA) grant (California Public Utilities Commission) to fund the completion of the County's high-level design and low-level design for broadband infrastructure for the unserved and underserved unincorporated areas, as well as funding the development of low-level, shovel-ready network designs for priority areas in and around those same areas. A California Advanced Services Fund (CASF) Consortia Grant for \$500,000 per county per year for two years. The consortium region includes Napa, Sonoma, Mendocino, and Marin counties, for a total of \$4 million in CASF funding. This grant would fund the development of community programs and environmental permitting.

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Coordination and Partnership Update

Staff met with stakeholders including community groups, regional partners, and internet service providers throughout the year to communicate plans and surface opportunities for collaboration. Staff has also connected with city managers and key staff to discuss urban connectivity needs and opportunities for partnership.

Staff is also exploring how to best utilize their membership with Golden State Connect Authority to take advantage of the different funding opportunities and deployment resources available.

Community, Equity, and Climate Update

A key component of the LATA grant program is the application of census data to determine the demographics of each of the respective locations in the final provided designs. Once the high-level design process is complete, demographic census data will be overlaid to help determine select priority areas within the County. As part of this process, the County will also determine if data from the Portrait of Sonoma can be used to provide additional demographic information.

Funding Narrative

In December the Board of Supervisors accepted a \$500,000 Local Agency Technical Assistance (LATA) grant to fund the completion of the County's high-level design and low-level design for broadband infrastructure for the unserved and underserved unincorporated areas, as well as funding the development of low-level, shovel-ready network designs for priority areas in and around those same areas.

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On December 14, 2021, staff received three million in American Rescue Plan Act funding to enhance broadband availability and adoption.

Goal 5.5

Support, fund, and expand flood protection.

Objective 5.5.1

RI5-1 - Develop partnerships with cities, tribal governments, and private organizations regarding flood protection and sustainability to identify gaps and address climate change impacts.

Summary of Objective Implementation Status

Sonoma Water will manage the workload for this objective. They have identified funding for staff who will support the objective and other flood-related priorities, and funding for a contractor who will implement the following activities:

1. Develop an action plan for implementing recommendations identified in current flood risk management assessment;
2. Integrate local agencies that maintain levees and flood control structures into the overall emergency response organization;
3. Develop a comprehensive flood response and recovery plan for the operational area, including:
 1. Clarifying roles and responsibilities,
 2. Establishing framework for response coordination, information sharing, and community engagement,
 3. Ensuring equity considerations are factored into all planning, response, and recovery elements,
 4. Developing recovery strategies to guide post-flooding activities.

Key Milestone Update

Funding was procured for staff and contractor costs. The recruitment process for a contractor is underway.

Coordination and Partnership Update

Sonoma Water is taking a lead role in this objective due to their expertise in flood control.

Community, Equity, and Climate Update

The most current climate change models will be incorporated into the research efforts to inform recommendations from local agencies.

Funding Narrative

The Board of Supervisors allocated \$275k from the Climate Resilience Fund for Sonoma Water's work plan.

Objective 5.5.2

RI5-2 - Implement land use planning and assessments to address flood protection, including river setbacks and riparian corridors, and make resources available for residents.

Summary of Objective Implementation Status

Permit Sonoma has continued to implement the existing Riparian Corridor Ordinance which requires zoning or use permits for most human activity in the currently mapped and regulated riparian corridors in the County.

Permit Sonoma has collaborated with the Russian River Regional Monitoring Program (R3MP) to design and implement a study to map all streams in Sonoma County from the headwaters to the ocean or bay. The effort will also develop a mapping procedure for determining the "top of bank" in order to better map the riparian corridor setbacks, as required in the County's RC combining district. This study will be beginning in Spring of 2023 and will take at least 18 months to complete.

Key Milestone Update

Permit Sonoma has leveraged funding from the existing R3MP/San Francisco Estuary Institute (SFEI) study and is a project partner on this grant project.

Coordination and Partnership Update

Permit Sonoma is working with R3MP on the riparian mapping project for this objective.

Community, Equity, and Climate Update

No updates to report. Extensive and healthy floodplains and riparian corridors continue to be critical to overall watershed health and wildfire and climate resiliency.

Funding Narrative

No new funding efforts have occurred since developing the collaborative project between R3MP and SFEI.

Objective 5.5.3

RI5-3 - Evaluate the feasibility, creation, and/or update of Flood Protection Plans and seek out financing mechanisms to establish protection zones countywide by 2026.

Summary of Objective Implementation Status

Property-owner support is critical to securing a vote for a benefit assessment. The residents in the Upper Russian River watershed/Alexander Valley (4A) are the only property owners who have indicated interest in pursuing self-taxation to fund flood protection projects. A group of local landowners in Alexander Valley and other Sonoma County agriculture representatives has been formed to evaluate governance options for improving water resource management, including flood control for the Alexander Valley. The Sonoma County Water Agency (Sonoma Water) is also working with this group to explore ways to improve water resource management and achieve ecological uplift in the Alexander Valley. Sonoma Water and District 4 are working together to develop a vision for water resource management in collaboration with County of Sonoma Departments, the Agricultural Preservation and Open Space District and the Sonoma Resource Conservation District (Sonoma RCD). This vision should help guide and coordinate the activities of several organizations governed by members of the County Board of Supervisors and other public boards. The County of Sonoma and local landowners are jointly funding a study to assess governance options.

This vision will help inform Sonoma Water's efforts to develop an updated Operations and Maintenance Manual (O&M Manual) for maintaining works of improvement constructed by the U.S. Army Corps of Engineers (Corps) in the Alexander Valley to reduce river channel instability caused by the construction and operation of the Coyote Valley Dam in the 1950s. New models for river management, such as those adopted for the Napa River, could meet Sonoma Water's obligations to the Corps in a manner that provides significant ecological uplift to the Russian River in the Alexander Valley.

Key Milestone Update

The goal is to complete the governance study and develop a draft vision for the Alexander Valley in 2023. An updated O&M Manual will take several years to complete. The goal is to identify maintenance scenarios for Board consideration in 2023. Additionally, the County has reserved funding for efforts to advance water resource management improvements in the Alexander Valley. The United States Natural Resource Management Service has also indicated an openness to participating in water resource management efforts in the Alexander Valley. In 2023 the goal will be to both identify maintenance scenarios for the O&M manual and to initiate a feasibility study for potential water resource management improvements for the Alexander Valley. Flood protection will be a key topic for the feasibility study. These studies are expected to take 2 years to complete. Additional time will be needed to formally develop the manual and to obtain Corps approval for the updates, and to further advance water resource management improvements found to be feasible.

Coordination and Partnership Update

Efforts to improve water resource and ecological conditions will be implemented using an adaptive and collaborative approach. Given the complexity of the water resource conditions, such an approach will be necessary to ensure robust stakeholder and natural resource agency involvement, and eventually to gain acceptance of plans to improve water resource and ecological conditions in the Alexander Valley.

Community, Equity, and Climate Update

Based on recommendations from Alexander Valley property owners, Sonoma Water has reached out to the Sonoma Resource Conservation District regarding their involvement in engaging landowners in Alexander Valley. The Sonoma RCD has a long history of working with property owners in this area. Property owner participation will be a critical component in the success of the O&M Manual update and to the feasibility study. The engagement process developed for this effort can be designed to address equity issues, and to help ensure that implementation of the O&M Manual and other water resource improvements will not create adverse equity issues in the valley. The effectiveness of the engage process will be evident by the number of landowners that participate in this process and the eventual implementation of water resource management efforts.

Water resource management efforts in the Alexander Valley could include removal of invasive species and improving the health of the riparian corridors on the main stem of the Russian River and its tributaries, and developing managed aquifer recharge projects for improved drought and flood resiliency. There is the potential to leverage existing funding, private and public landowner funding, and federal natural hazard resiliency funding for these projects. Additional drought resiliency funding that will likely become available in future years could also be leveraged for climate resiliency projects.

Funding Narrative

Support for ongoing efforts to organize landowners in the Alexander Valley and create an entity to advance water resource management would be funded using private and public sources. Sonoma Water's efforts associated with updating the O&M Manual could be funded through a reestablishment of the Coyote Valley Tax Override. As indicated previously, the County of Sonoma has budgeted funds for advancement of water resource management in the Alexander Valley. Other collaboration and planning efforts undertaken by public organizations would be funded within existing departmental funding sources.

This effort is also being coordinated with the Russian River Confluence, which is funded through County financial contributions, and public and private in-kind services.

Funding for ongoing water resource management, including flood protection, would be generated with the property-owner leveed benefit assessment.