



WILDFIRE PREPAREDNESS, MITIGATION AND RESILIENCY: PRIORITIZED PROJECTS

City Council
February 9, 2021

Scott Westrope, Interim Fire Chief
Jason Nutt, Assistant City Manager
Alan Alton, Deputy Director - Finance



Background:

- On December 15, 2020, Finance, TPW and Fire Departments presented a list of unmet needs in relation to one-time funding opportunities from PG&E settlement funds to improved wildfire preparedness, mitigation, and resiliency.
- City Council requested a prioritized list of projects with a target near \$25M.
- Associated Departments met and developed a prioritized list of projects based on:
 - Community input
 - Mitigation impacts
 - Implementation timelines
 - Cost (partial or full funding)



PROJECT REVIEW WITH COST AND IMPLEMENTATION TIMEFRAMES



Relocate and Rebuild Fire Station 5

- To replace and relocate Fire Station 5 that was lost during the Tubbs Fire, staff recommends rebuilding Fire Station 5 at the corner of Stage Coach Road and Fountaingrove Parkway.
- The rebuild of Fire Station 5 will restore permanent service to the Fountaingrove neighborhood and protection of the Wildland Urban Interface (WUI).
- The new location will enhance service to the entirety of Fountaingrove and also improve the service level to the northern portions on north Mendocino Avenue and adjacent areas.
- The property for the new Fire Station 5 is in the purchasing process and is currently in the CEQA process.
- Federal Funding possible, but not certain. If successful, shift these funds to other Fire Station projects.
- **Project cost: \$15M**
 - Funding to secure contracts for design/build.
 - Potential to break ground in 2022.



Vegetation Management Program

- The final draft of the Community Wildfire Protection Plan (CWPP) was approved in September 2020.
- The Plan serves to guide the development and implementation of a comprehensive Vegetation Management Program.
- The Program will focus on improving evacuation routes, community wildfire education, wildfire and evacuation preparedness, structural hardening of the built environment, vegetation treatments to reduce the wildfire threat, implementation of defensible space standards and increased staffing dedicated to the wildfire mitigation workload.
- **Project cost: \$5.25M (Five-year program)**
 - Program is ready to implement immediately.
 - Annual progress reports to Council.



Santa Rosa Fire Department Wildland Resiliency and Response Strategic Plan

- Examines the risk and threat potential of wildland fires and adjusts the prevention, mitigation, and operational response components of the organization.
- The SRFD Wildland Resiliency and Response Strategic Plan will assess and adjust six (6) major strategies that comprise the SRFD wildland programs:
 - Legislation (e.g. ordinances, statutes, fire code, State and Federal policy)
 - Capital Enhancements (e.g. Type 3 and Type 6 Fire engines, other apparatus)
 - Non-Capital Enhancements (e.g. radios, tool caches, PPE)
 - Operations (e.g. response matrix, training, strategies, tactics, command)
 - Staffing (e.g. Upstaffing Plan, staffing patterns, recall policy revision)
 - Community Engagement (e.g. focus on whole-community inclusion)
- **Project Cost: \$2.75M**
 - Majority of strategies are already in progress with ability for immediate implementation.
 - Acquisition of apparatus takes up to one year, likely in service in 2022.



Modernize Radio Infrastructure

Non-Fire Radios

- The new city-wide radio infrastructure was installed in 2020.
- Requires a maintenance and software upgrade agreement to remain reliable over the next nine years.
- This agreement supersedes the current agreement and expands service to cover to all non-fire City radios.
- Provides seamless system upgrades with minimal interruption to daily operations
- **Project Cost: \$3M**
 - Implementation will vary by Department, completion in 2023.



Evacuation Equipment

- Barricades and Message Boards with transport trailer
- Creates a ready-to-go stock of barricades that will facilitate easy deployment rather than needing to rely on rental agencies, contractors or mutual aid to provide and transport to the sites
- Barricades include a combination of concrete k-rail, plastic waterfilled barrier, lighted a-frame barricades, light towers, message boards and transport trailer
- **Project cost: \$150,000**
 - Purchases could begin immediately



Build “Hot” Emergency Operations Center (EOC)

- Current EOC is considered “Cold”
 - Occupies three adjoining conference rooms in Utilities Field Offices (UFO) building
 - EOC equipment moved from storage and configured at time of EOC Activation
- EOC was activated 5 times in 2019 and 5 times in 2020
- Hot EOC would provide City with permanent EOC facility located at Transit Operations Building (TOB) and adjacent MSC-N
- Facilitates emergency management of multiple potential disasters in Santa Rosa, including Earthquakes, Hazardous Materials Response, Chemical Spills, Civil Unrest, etc.
- **Project cost: \$550,000**
 - \$400,000 convert space in TOB/MSC-N to EOC
 - \$150,000 for back-up generator and potential seismic retrofits
 - Project can start immediately to complete before 2021 Fire Season

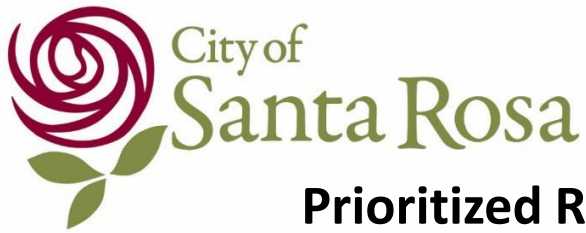


Traffic Signalization to Aid Evacuation Choke Points

- Improve evacuation of the WUI areas
- Addition of quick connections, portable generators and closed-circuit cameras to key intersections as well as a fiberoptic interconnect along Fountaingrove Parkway, Farmers Lane, Sonoma Hwy, and College Ave
- Allows for Traffic Engineers to assist Police and Fire better manage traffic flow in evacuation routes
- Work with a consultant to develop flushing plans for all evacuation plans in the WUI area
- Cameras will allow real time assessment of where resources are needed
- **Project cost: \$3.35M**
 - Fiberoptic interconnect/Closed Circuit Cameras: \$3.25M (partial funding)
 - Project scoping, design, construction completed Winter 2024.
 - Evacuation Route Flushing Plans - \$100,000 (partial funding)
 - Plan completed by Fall 2022



SUMMARY OF PROJECTS



Prioritized Resiliency and Infrastructure Projects

Project	Cost Estimate
Rebuild and Relocate Fire Station 5	15,000,000
Comprehensive Five-Year Vegetation Management Prog.	5,250,000
Wildland Resiliency and Response Strategic Plan	2,750,000
Radio Infrastructure	3,000,000
Evacuation Equipment	150,000
Build “Hot” Emergency Operations Center	550,000
Traffic Signalization, including Fiber and CCTV	3,300,000
Subtotal Prioritized Resiliency/Infrastructure Projects	\$30,000,000



Project Description	Cost Estimate
Miscellaneous Infrastructure (Evac Bus, Radio Infrastructure for Water)	706,000
Apparatus for Additional Fire Stations	2,305,000
Sidewalk Repair (FEMA PA Project) – damaged areas only	4,100,000
FEMA Public Assistance Local Match/Ineligible Projects	6,000,000
Traffic Signalization (remaining fiber/cctv)	6,930,000
Housing Downtown	10,000,000
Roseland Library	10,000,000
SE Greenway Land Acquisition	12,000,000
Pavement Repair (FEMA PA Project)	24,000,000
Fire Flow Facility Improvements	26,100,000
Sidewalk Repair – replace all sidewalks, damaged and not	45,200,000
Four Fire Stations (move 2 stations, add 2 stations)	60,000,000
Improve Evacuation Routes from WUI	88,000,000
Underground Utilities in WUI (<i>Regional Project</i>)	21,000,000
Improve Evacuation Routes from WUI (<i>Regional Project</i>)	100,000,000



Summary of Projects

Project Category	Cost Estimate
Prioritized Resiliency/Infrastructure	\$30,000,000
Fiscal Sustainability	\$30,000,000
City-Controlled Projects from Prior Presentations	\$295,341,000
Regional Projects from Prior Presentations	\$121,000,000
Total One-Time Project Cost	\$476,341,000



QUESTIONS?