

CRS Activity 510

Progress Report on Implementation of Credited Plan

Date this Report was Prepared: **June 10, 2021**

Name of Community: **Town of Ross, CA**

Name of Plan: **Marin County Multi-Jurisdiction Local Hazard Mitigation Plan**

Date of Adoption of Plan: **January 10, 2019**

5 Year CRS Expiration Date: **January 10, 2024**

1. How can a copy of the original plan or area analysis report be obtained?

- a. Town of Ross website:

<https://www.townofross.org/emergencyservices/page/local-hazard-mitigation-plan>

- b. Marin County website:

<https://www.marinwatersheds.org/sites/default/files/2020-07/Marin%20County%20Multi-Jurisdictional%20Local%20Hazard%20Mitigation%20Plan%202018.pdf>

2. Describe how this evaluation report was prepared and how it was submitted to the governing body, released to the media, and made available to the public:

The annual evaluation report for 2021 was presented to Ross Town Council at a regular public meeting held on June 10, 2021. Information on the report and the presentation to Council was included in the June 2021 edition of the Town's newsletter "The Morning After" and publicized by a Town-wide email to Ross residents on June 11, 2021.

3. Provide a description of the implementation of each recommendation or action item in the action plan or area analysis report, including a statement on how the project was implemented or not implemented during the previous year:

See Attachment A for Regional Objectives and Attachment B for Ross-specific Objectives.

4. Discuss why any objectives were not reached or why implementation is behind schedule:

Most of the objectives that have not been met or implemented involve changes to the Municipal Code, involve cross-jurisdictional involvement, or are not applicable to the Town of Ross.

5. What are the recommendations for new projects or revised recommendations?

Some of the items listed in 5. will be re-evaluated for the 2024 update of the 2018 Multi-Jurisdictional LHMP. Phoenix Lake Dam Inundation awareness and public outreach methods should be increased, and wildfire awareness updated to incorporate MWPA programs.

ATTACHMENT A - MARIN REGIONAL OBJECTIVES
2021 ANNUAL REPORT

| Common Mitigation Actions

| No. | Description | Hazard and Goal Addressed | Existing Local Mechanism to Implement | HMA Eligible Activity Type | Potential Funding Source | Responsible Agencies | 2021 STATUS |
|-------|---|--|--|--|--------------------------|--|--|
| DAM-1 | Encourage property owners in dam inundation areas to purchase insurance | Dam inundation | | Public awareness or education campaigns about mitigation | 5 Percent Initiative | Planning and public works departments, Special districts (water districts) | Considering adding Phoenix Lake Dam inundation to annual flood risk mailer |
| DAM-2 | Consider/implement improvements to armoring of dams or other improvements. | Dam inundation (related: flood, earthquake and wind) | | | | | Not Applicable |
| DAM-3 | Install accelerometers on and adjacent to dams to provide information on structural impacts of seismic events. | Dam inundation (earthquake and flood) | | | | | Not Applicable |
| EQ-1 | Use incentives for mitigation of privately owned at-risk or seismically deficient structures (soft story / unreinforced masonry/old bridges). | Earthquake | Grants for property owners, guidance materials, workshops, events or other public engagement initiatives | Structural Retrofitting of Existing Buildings | HUD CDBG, HMGP, PDM | Planning or Building departments | Considered |
| EQ-2 | Adopt applicable standards and identification/assessment protocols for voluntary or mandatory retrofits of seismically vulnerable buildings (such as soft story buildings). | Earthquake | | Hazard Mitigation Planning Related Activity | HMGP | Planning departments | Considered |

ATTACHMENT A - MARIN REGIONAL OBJECTIVES
2021 ANNUAL REPORT

| | | | | Infrastructure Retrofit | HMGP, PDM | Public Works departments | Not Applicable |
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| EQ-3 | Upgrade deficient ramps and bridges. | Earthquake | | | | | |
| EQ-4 | Require engineered plan sets for seismic retrofits of homes on steep hillsides, soft- story homes, and other split-level or vulnerable homes not covered by standard plan set A | Earthquake and Debris Flow | | Hazard Mitigation Planning Related Activity | HMGP | Planning or Building departments | Considered |
| FIR-1 | Develop a plan for appropriate access and evacuation in hillside wildland-urban interface areas, For example creation of no parking areas, signage, and early warning and evacuation. | Wildfire | | Hazard Mitigation Planning Related Activity | HMGP and other federal, state and local sources | Fire and Emergency Services departments | Considered |
| FIR-2 | Develop a method and technologies for regulating and/or enforcing defensible spaces. | Wildfire | | Hazard Mitigation Planning Activity | HMGP and other federal, state and local sources | Planning and Fire departments | RVFD/MWPA |
| FIR-3 | Encourage Fire Departments to expand vegetation management programs in wildland-urban-interface areas to more effectively manage the fuel load through various methods including, but not limited to, roadside collection and chipping, mechanical fuel reduction equipment, selected harvesting, use of goats or other organic methods of fuel reduction. | Wildfire | | Wildfire Mitigation (Creation of Defensible Space, Hazardous Fuels Reduction) | HMGP and other federal, state and local sources | Fire departments | Clipper Days successful. Town approves of use of Goats in hillside areas. |
| FIR-4 | Fuel reduction program for publicly owned or open spaces. May include targeting invasive and exotic plants that contribute to fire (and flooding) hazards such as eucalyptus, broom, and cordgrass. | Wildfire | | Wildfire Mitigation (Hazardous Fuels Reduction) | HMGP and other federal, state and local sources | Fire departments | RVFD/MWPA |

ATTACHMENT A - MARIN REGIONAL OBJECTIVES
2021 ANNUAL REPORT

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| FIR-5 | Promote residential fuel modification program. May include special programs for elderly/disabled. | Wildfire | | Wildfire Mitigation (Creation of Defensible Space, Hazardous Fuels Reduction) | HMGP and other federal, state and local sources | Fire and Planning departments? | RVFD/MWPA |
| FIR-6 | Post-fire soil stabilization such as planting heat and drought tolerant vegetation. May include re-routing water channels to prevent landslides from affecting local roadways. | Post-fire debris flow | | Soil stabilization | HMGP | Fire, Planning, and Public Works departments | Town of Ross supports this effort |
| FIR-7 | Develop and implement early warning systems that monitor surface water movement and alert citizens of possible post-fire flash floods and debris flows. | Post-fire debris flow | | Early warning systems that monitor and alert of possible post- fire debris flows | HMGP 5% Post Fire Funding | Fire and Emergency Services departments | Town of Ross supports this effort |
| FLD-1 | Maintain participation in the National Flood Insurance Program and manage beyond minimum requirements as appropriate for local conditions. Consider improving Community Rating System (CRS) score if benefit exceeds cost for a given jurisdiction. | Flood | CRS staff | Hazard Mitigation Planning Related Activity | HMGP, PDM, FMA, other federal, state and local funds | Public Works and Planning departments | ONGOING |
| FLD-2 | Incorporate flood planning into local permitting and planning. | Flood | Capital improvement plans, zoning, codes, | Hazard Mitigation Planning Related | HMGP and other federal, state and | Planning and Public Works departments. | ONGOING |
| FLD-4 | Conduct education & outreach for homeowners regarding flood mitigation as part of hazard mitigation plan update. | Flood | Annual flood preparedness fair, CRS annual outreach, sea level rise guide for homeowners. | Hazard Mitigation Planning Related Activity (as part of plan update) | HMGP | Public Works, Planning, Emergency Services, Fire, special districts. | ONGOING |

ATTACHMENT A - MARIN REGIONAL OBJECTIVES
2021 ANNUAL REPORT

| FLD-5 | Inspect, assess, maintain, improve, and expand flood management systems, such as berms, levees, seawalls, drainage basins, catch basins, pipes, pump stations, channels or other flood and stormwater infrastructure. Includes stabilization of grades and banks in creeks, especially where critical facilities are nearby or crossing. | Flood and erosion due to flood flows | Capital improvement programs and maintenance programs | Localized Flood Risk Reduction Projects | HMGP | Public Works departments |
|-------|--|--------------------------------------|---|--|--|---------------------------------------|
| FLD-6 | Identify structures, collect and assess information to support policy decisions regarding pre- or post-disaster acquisition, relocation, elevation, or wet/dry floodproofing of flood-prone structures, particularly Repetitive Loss. Consider views and aesthetic impacts early in planning. | Flood | Post-disaster community planning, CRS, Local Coastal Program, building codes, BayWAVE/C-SMART | Property Acquisition and Structure Demolition/Relocation and Structure Elevation | FMA, HMGP, Flood Control & Water Conservation District | Planning and Public Works departments |

ATTACHMENT A - MARIN REGIONAL OBJECTIVES
2021 ANNUAL REPORT

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| | | | | | ONGOING |
| FLD-7 | Continue to support the San Francisco Bay Area Advanced Quantitative Precipitation Information System project to provide both improved observing capabilities and a suite of numerical forecast models, accurate and timely information for a variety of user needs, including improved precipitation and hydrologic information to assist the region in mitigating flood hazards, maximize water supply, and enhance ecosystem services. The primary emphasis will be to improve short-term (48 hour) monitoring and prediction of high-impact rainfall events. The secondary emphasis will focus on improved medium- range precipitation forecasts (out to 10 days) for water supply. | Flooding | Non-localized Flood Risk Reduction Project resiliency. Mitigation project adapts to new challenges posed by more powerful storms, frequent heavy precipitation, prolonged droughts, extreme flooding, and other weather events. Miscellaneous/ Other project that addresses climate change adaptation and encourages | Partially funded by Department of Water Resources Integrated Water Management and the Sonoma County Water Agency. Potential future funding sources include FEMA and additional partner agencies (flood, water, sanitary agencies in the region, particularly in the north San Francisco Bay areas). | Sonoma County Water Agency is the lead agency. Marin County partners may include special districts (water and sanitary) and Public Works Departments |
| FLD-8 | Conduct multi-jurisdictional repetitive loss area analysis for full county as part of multi-jurisdictional local hazard mitigation planning | Flood | CRS program 5-year update | Hazard Mitigation Planning Related Activity | HMGP, County general fund |
| FLD-9 | Encourage at least one member of City/Town to be a Certified Floodplain Manager. | Severe Storm/ Flood | CRS program points, Floodplain Managers Association Conferences, professional development, consider hosting a local workshop | Hazard Mitigation Planning Related Activity (as part of plan update) | Planning, Building, and Public Works departments |

ATTACHMENT A - MARIN REGIONAL OBJECTIVES
2021 ANNUAL REPORT

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| FLD-10 | Participate in C-SMART and BayWAVE adaptation planning and implement strategies stemming from these programs. | Flood | C-SMART and BayWAVE programs, capital improvement planning | Hazard Mitigation Planning Related Activities | HMGP, other federal, state and local funding | Planning and Public Works departments | Town of Ross supports this effort |
| FLD-11 | Encourage integration of SLR and climate change into planning documents, systems, operations, and maintenance | Flood | | Hazard Mitigation Planning Related Activities | HMGP, other federal, state and local funding | Planning, Emergency Services, and Public Works departments | Town of Ross supports this effort |
| LS-1 | Increase efforts to reduce landslides and erosion in existing and future development by improving appropriate code enforcement and use of applicable standards for private property, such as those appearing in the California Building Code, California Geological Survey Special Report 117 – Guidelines for Evaluating and Mitigating Seismic Hazards in California, American Society of Civil Engineers (ASCE) report and the California Board for Geologists and Geophysicists Guidelines for Engineering Geologic Reports. Such standards should cover excavation, fill placement, cut-fill transitions, slope stability, drainage and erosion control, slope setbacks, expansive soils, collapsible soils, environmental issues, geological and geotechnical investigations, grading plans and specifications, protection of adjacent properties, and review and permit issuance. | Landslide | | Hazard Mitigation Planning Related Activity | | Planning and Public Works departments | Town of Ross supports this effort |

ATTACHMENT A - MARIN REGIONAL OBJECTIVES
2021 ANNUAL REPORT

| LS-2 | Develop and implement projects that prevent landslide impacts to roadways. | Landslide | Emergency response stabilization and capital improvement projects | Soil Stabilization and Infrastructure Retrofit | HMGP and other federal, state and local sources | Public Works departments | Considered |
|-------|--|---|---|--|---|---|--|
| MIT-1 | Integrate the MCM LHMP into all jurisdictions general plan safety elements. | All | General Plan updates | Hazard Mitigation Planning Related Activity | Jurisdiction general funds (soft match), HMGP | Planning or Public Works departments. | Town of Ross supports this effort for upcoming General Plan Update |
| MIT-2 | Assess vulnerability of critical facilities and public buildings to damage in natural disaster. Make recommendations to staff and governing board on priorities for mitigation, identify funding mechanisms, conduct improvements. | All | Needed | Hazard Mitigation Planning Related Activity | HMGP, PDM | Building and Public Works departments and special districts with critical facilities. | ONGOING |
| MIT-3 | Adopt, amend as needed, and enforce updated versions of state and federal regulations for Building and Fire Codes so that optimal standards are used in construction and renovation projects of public and private buildings and infrastructure. | Earthquake, Severe Storm, Wildfire, Tsunami | Existing construction codes | Hazard Mitigation Planning Related Activity | Building permit fees | Planning, Building, and Fire departments. | ONGOING |
| MIT-4 | Develop/ enforce regulations requiring replacement of above-ground utilities with underground utilities. Require underground utilities be effectively sealed to prevent backflow of floodwaters into buildings. | All | Varies by jurisdiction | Hazard Mitigation Planning Related Activity | HMGP | Planning departments. | Town of Ross supports this effort |

ATTACHMENT A - MARIN REGIONAL OBJECTIVES
2021 ANNUAL REPORT

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| MLT-5 | Prepare, study, and/or provide hazard information to residents, property owners and merchants, such as hazard maps (e.g. MarinMap and MyHazard) and private mitigation resources. Do this as part of Hazard Mitigation Planning to be eligible for HMA funding. | All | Through existing public outreach methods, newsletters, social media | Hazard Mitigation Planning Related Activity (information dissemination as part of plan update) | HMGP, PDM | Emergency Services, Planning, Fire, and Public Works departments | ONGOING |
| MLT-6 | Partner with utility system providers and other lifeline infrastructure and municipal partners to develop strong and effective mitigation strategies as part of multi-jurisdictional hazard mitigation planning. | All | Biannual Marin County Utilities and Public Works Meetings | Hazard Mitigation Planning Related Activity (as part of plan update) | HMGP, PDM | Emergency Services departments? | Town of Ross supports this effort |
| MLT-7 | Train staff in emergency response and hazard mitigation by hosting trainings and by encouraging attendance at conferences and workshops as part of multi-jurisdictional hazard mitigation planning. | All | Professional Development. County host Cal OES CSTI for training offered to participating jurisdictions. | Hazard Mitigation Planning Related Activity (as part of plan update) | HMGP, PDM, EMPG | Emergency Services, Planning, Building, Public Works, and Fire Departments. | ONGOING |
| MLT-8 | Use partnerships to protect as open space or parks, wetlands and those areas susceptible to extreme hazards (such as through land acquisition, zoning, and designation as Priority Conservation Areas). | All | General plan land use/open space elements, easements and conservation easements | Hazard Mitigation Planning Related Activity: Property Acquisition and Structure Demolition/ Relocation | HMGP, PDM, FMA (if protect RL); other federal, state and local funds | Parks and Planning Departments, County Open Space and Flood Control | Town of Ross supports this effort |
| MLT-9 | Develop and implement energy assurance plans. May include backup generators, energy storage (e.g. diesel fuel tanks), and microgrids for critical facilities. | All | As part of capital improvement projects. | Generators | HMGP (5 percent initiative), PDM | Emergency Services, Public Works, Fire, and special districts | Town of Ross has upgraded BBU and generator systems since 2018 |

ATTACHMENT A - MARIN REGIONAL OBJECTIVES
2021 ANNUAL REPORT

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| MLT-10 | Reinforce and/or elevate ramps, bridges, and roads as needed. | Flood, Debris flow, and Earthquake | Capital improvement plans | Infrastructure Retrofit | HMGP, other federal, state and local funding sources | Public Works and Planning departments | Town of Ross supports this effort with Lagunitas Bridge and Winship Bridge projects |
| MLT-11 | Conduct two new fire-related assessments taking into account lessons learned from the 2017 North-Bay wildfires. The new data points needed in order to support improved fire hazard mitigation include 1) assessing vulnerability of public and private structures in the wildland-urban interface zones based on building material and roof type, and 2) identifying areas with aging population and/or access and functional needs. This analysis could support new mitigation strategies that would make Marin more resilient to the type of disaster that occurred in our northern neighboring county. | Wildfire, Post-fire Debris Flow | Part of the 5-year update to the LHMP | Hazard Mitigation Planning Related Activity | HMGP | Planning, Fire, and Public Works departments | Town of Ross supports this effort |
| MLT-12 | Prepare powerful graphics for the 2023 MCM LHMP that show how one or both of fire and/or flood hazards affects the vast majority of populated areas. The goal is to encourage communities to work together towards a common goal of minimizing hazard risk for all. | Flood/SLR and Wildfire | Part of the 5-year update to the LHMP | Hazard identification or mapping for the implementation of mitigation activities Public awareness or education campaigns about mitigation | HMGP | Emergency Services, Planning, Fire, and Public Works departments | Town of Ross supports this effort |
| MLT-13 | Update landslide or wildfire hazard considerations, including roads leading to development, when new construction or major remodels are proposed in hillside areas discourage construction or add mitigation measures as appropriate. | Debris flow and wildfire | Building and fire code updates. Local Coastal Program. | Hazard Mitigation Planning Related Activity | HMGP | Planning and Public Works departments | Town of Ross supports this effort |

ATTACHMENT A - MARIN REGIONAL OBJECTIVES
2021 ANNUAL REPORT

| | | | Hazard Mitigation Planning Related activity | HMGP and other federal, state and local sources | Fire departments and special districts (water districts) | MMWD, RVFD, MWPA |
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| MLT-14 | Work to ensure a reliable source of water for fire suppression and general use during/after hazards through the cooperative efforts of water districts, sanitary districts, fire districts, residents and commercial property owners. | Wildfire | | | | |
| MLT-15 | Mitigate against wind- induced wave erosion on the coast and in critical ponds (drinking, water treatment, or stormwater storage/detention) through relocation of facilities or improving (such as armoring) banks/berms/levees/shorelines. Secondary benefits include protection against earthquake-induced damage to critical facilities and flooding that may result due to their damage. | Wind, Flood, Earthquake | | | Town of Ross supports this effort | |
| MLT-16 | Assessment of properties countywide to facilitate rapid damage assessment post-disaster, and pre- disaster vulnerability analysis for hazard mitigation planning update. | All | Hazard Mitigation Planning Related Activity | HMGP, PDM | Planning departments | Not Applicable |

ATTACHMENT A - MARIN REGIONAL OBJECTIVES
2021 ANNUAL REPORT

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| MLT-17 | Follow all four phases of FEMA's How-to- Guide: "Integrating Historic Property and Cultural Resource Considerations into Hazard Mitigation Planning" to develop and implement a mitigation plan for at risk cultural resources. | All | | | Town of Ross supports this effort |
| MLT-18 | Design and implement projects that protect and expand natural flood mitigation functions. Example projects include nature-based sea level rise adaptation projects that attenuate waves utilizing a living shoreline. | Flood, Tsunami, Wind | Capital improvement projects, zoning and setbacks, partnership based efforts, stream conservation ordinances, local coastal plans, building codes. | Hazard Mitigation Planning Related Activity | HMGP, PDM, FMA, other federal, state and local funds |
| MLT-19 | Prevent infrastructure expansion in high-risk areas | Flood, Tsunami | | Hazard Mitigation Planning Related Activities | Planning and Public Works departments |
| MLT-20 | Protect buildings and infrastructure from flood damage, such as by moving sewers and roads upland. | Flood, Tsunami | Capital improvement projects, multi-benefit restoration projects | Localized flood risk reduction projects | other federal, state and local funding |
| TSU-1 | Continue participation in NOAA TsunamiReady program, in communities with significant tsunami risk. | Tsunami | | Hazard Mitigation Planning Related Activities | Emergency Services departments |

ATTACHMENT B - TOWN OF ROSS OBJECTIVES
2021 ANNUAL REPORT

| Action Number / Name | | Estimated Cost | Potential Funding Sources | Timeline | Responsible Agency | 2021 STATUS |
|----------------------|---|----------------|--|-------------|--|---|
| AH-17 | Consider establishing a hazard mitigation fee for building permits to create a hazard mitigation funding source for initiatives or grant cost-share requirements | Low | Revenue generating | 1-3 years | Administration, Planning and/or Building | NO CHANGE |
| AH-19 | Consider improvement of currently unused pedestrian rights-of-way/paths as walkways to serve as additional evacuation routes. | High | General Fund | 2-5 years | Public Works and/or Planning | Some "fire-safe"communities that have these 10' pathways have recently incorporated them into planned evacuation routes |
| AH-2 | Conduct periodic tests of the alerting and warning system. | Low | General Fund | Continuous | Fire | Continuous |
| AH-30 | Develop and enforce a repair and reconstruction ordinance to ensure that damaged buildings are repaired in an appropriate and timely manner and retrofitted concurrently. | Low | General Fund | 6-12 months | Planning | NO CHANGE |
| AH-31 | Develop post-disaster development and recovery ordinance to facilitate recovery. | Low | General Fund | 6-12 months | Planning | NO CHANGE |
| AH-4 | Encourage the formation of a community- and neighborhood-based approach to wildfire education and action through local Fire Safe Councils and the Fire Wise Program to take advantage of grant funds currently available to offset costs | TBD | General Fund and State fire grants | 1-2 years | Fire | NO CHANGE |
| AH-41 | Obtain at least three laptop computers for use outside of Police Department should the public safety building be uninhabitable due to hazards. | \$3,000 | General Fund and/or State/Federal Grants | 1 Year | Police | NO CHANGE |
| AH-42 | Obtain propane heaters, stoves and lanterns for emergency use for employees. | Low | General Fund and/or State/Federal Grants | 1 Year | Police | Completed |
| AH-8 | Consider expanding residential building reports to include hazard disclosure for known natural hazards in Ross: 1) Special Flood Hazards Areas (designated by FEMA), 2) Areas of Potential Flooding from dam failure inundation, 3) Very High Fire Hazards Severity Zones, 4) Wildland Fire Zones, and 5) Liquefaction and Landslide Hazards Zones (designated under the Seismic Hazards Mapping Act). | Low | General Fund | 1-3 years | Building and/or Planning | Building Dept. considering adding Dam failure and liquefaction disclosures |
| DAM-1 | Improve coordination among the Marin Municipal Water District and the Town so that the Town can better plan for evacuation of areas that could be inundated if the Phoenix Lake Dam fails. | Low | General Fund/staff time | 1-3 years | Fire | NO CHANGE |
| FL-16 | Install grates to catch debris. | Medium | General Funds, DPW | Continuous | Public Works | NO CHANGE |

ATTACHMENT B - TOWN OF ROSS OBJECTIVES
 2021 ANNUAL REPORT

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| FL-20 | Work with other Ross Valley jurisdictions to explore and adopt land use regulations to minimize additional runoff, or reduce runoff, within the Ross Valley watershed. (General Plan Program 6.C) | Low | General Funds | Ongoing | Public Works, Planning and/or Administration | Continually developing and enforcing a "no net runoff" policy based on Marin County Storm Water Program and BASMAA |
| FL-21 | Prepare GIS storm water map of the watershed to determine the water flow and design a culvert system appropriate to the volume and flow of peak runoff. Complete the identification of existing culverts and the need for new ones. | \$80,000 | General Funds and County Partnerships | Two to Five months | Public Works | Storm Drain Master Plan scheduled to be completed in 2021 |
| FL-23 | Construct a new 1,400 ft. long, 42-48" diameter reinforced concrete pipe culvert network running under the south gutter line on lower Bolinas Avenue. The culvert would originate with inlets at the Richmond Avenue intersection and outfall to Corte Madera Creek at the Sir Francis Drake Boulevard Bridge, as identified as Measure 4 in the "Final Draft Report: Planning-Level Hydrology and Hydraulics Study for Reducing Street Inundation and Overflow by Stormwater; Bolinas Avenue in Ross and San Anselmo, California," January 25, 2011. | \$780,000 | State Federal Grants | 1-2 years | Public Works | First phase of Bolinas Drainage Project completed in 2019. Final phase scheduled for FY22/23. |
| FL-25 | Create bioretention areas at the St. Anselm Church overflow parking lot and the Town's adjacent right of way as identified as Measure 4b in the "Final Draft Report: Planning-Level Hydrology and Hydraulics Study for Reducing Street Inundation and Overflow by Stormwater; Bolinas Avenue in Ross and San Anselmo, California," | \$220,000 | State Federal Grants/ drainage fees, Partnership with San Anselmo | 1-2 years | Public Works | NO CHANGE |
| FL-27 | Secure a one-way flap gate at the existing Corte Madera Creek outfall at the Winship Avenue Bridge section as identified as Measure 2j in the "Final Draft Report: Planning-Level Hydrology and Hydraulics Study for Reducing Street Inundation and Overflow by Stormwater; Bolinas Avenue in Ross and San Anselmo, California," January 25, 2011. | \$20,000 | State Federal Grants/ drainage fees, Partnership with San Anselmo | 1-2 years | Public Works; County of Marin agencies responsible for implementing the Ross Valley Flood Reduction and Creek Management Strategy. | Flap gate installation currently in regulatory permitting. Completion scheduled for 2021 |
| FL-34 | When properties that may provide opportunities for drainage improvements are for sale, acquire easements to install drainage improvements, such as between Bolinas Avenue and Fernhill. | High | unknown | Ongoing | Public Works | Currently acquiring new drainage easements on MCFCD property on SFDB. |
| FL-36 | Create a building and elevation inventory of structures in the floodplain | Medium | General Fund | 1-3 years | Building and/or Planning | NO CHANGE |
| FL-38 | Amend Town floodplain management regulations to adopt freeboard regulation to require finished floor to be 18" above the base flood elevation, rather than at the base flood elevation, to protect joists and vents from flood damage. Develop base flood elevation map using historical flood data. | Low | General Fund | 1-5 years | Building and/or Planning | DWR consultation suggested limiting freeboard to 12". Code amended in 2019 to 12" freeboard. |
| FL-39 | Purchase three pair hip-wader pants, for use by on-duty personnel to reach flooded areas. | \$1,500 | General Fund | 1 Year | Police | NO CHANGE |
| FL-40 | Purchase one SUV for use in flooding situations where patrol cars may not be able to operate due to high water. | \$45,000 | General Fund, state/federal grants | 1 Year | Police | NO CHANGE |

ATTACHMENT B - TOWN OF ROSS OBJECTIVES
2021 ANNUAL REPORT

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| FL-8 | Continue to provide link to web enabled and publicly-accessible County automated system of flood gauges. | 0 | General Fund | Completed | Administration | NO CHANGE |
| LS-1 | Establish and enforce provisions under the creek protection, grading, storm water management, and discharge control ordinances designed to control erosion and Town. | Low | General Fund | Ongoing | Building | NO CHANGE |
| LS-4 | Require geotechnical and soil-hazard investigations be conducted and filed to prevent grading from creating unstable slopes, and that any necessary corrective actions be taken prior to development approval. | Low | General Fund | Ongoing | Building and/or Planning | NO CHANGE |
| WF-11 | Prepare an accurate database of water tanks owned by Marin Municipal Water District and privately owned tanks and swimming pools that are available for fire fighting. | TBD | General Fund, staff time, partnerships | 1 to 5 years | Fire and/or Planning | NO CHANGE |
| WF-15 | Create a mechanism to enforce provisions of the California Building and Fire Codes and other local codes that require the installation of smoke detectors and fire-extinguishing systems on existing residential buildings by making installation a condition of finalizing a permit for any work valued at over a fixed amount and/or as a condition for the transfer of property. | Low | General Fund | Continuous | Building and Fire | NO CHANGE |
| WF-16 | Require fire sprinklers in all new or substantially remodeled structures. | Low | General Fund, Fire Department staff time | Continuous | Fire | NO CHANGE |
| WF-20 | Prepare Water System (Pressure) Master Plan. Coordinate with the Marin Municipal Water District (MMWD) to evaluate water pressure and water lines to ensure adequate fire protection. Identify locations where improvements are needed and adopt requirements and funding mechanisms in coordination with MMWD to implement these improvements. (General Plan Program 5.A) | TBD | General Fund, Fire Department staff time | Ongoing | Fire | NO CHANGE |
| WF-4 | Increase local patrolling during periods of high fire weather. | Low | General Fund, Fire Department | Continuous | Fire | NO CHANGE |
| WF-5 | Monitor weather during times of high fire risk using, for example, weather stations tied into police and fire dispatch centers. | Low | General Fund, Fire Department staff time | Continuous | Fire | NO CHANGE |
| WF-6 | Participate in multi-agency efforts to mitigate fire threat, such as the Hills Emergency Forum (in the East Bay), various FireSafe Council programs, and town/city-utility task forces. Such participation increases a jurisdiction's competitiveness in obtaining grants. | Low | General Fund, partnerships & Fire Department staff time | Continuous | Fire | NO CHANGE |