

7 HEALTHY COMMUNITY

Foster a healthy community in a safe environment that promotes active lifestyles, with access to recreation and locally sourced foods.

The city's network of parks and recreation facilities should meet the community's active lifestyle needs by promoting access and connectivity to trails, and the strategic addition of more parks and active play areas. New and enhanced walking and biking paths, designed in collaboration with the community, will provide convenient connections to destinations. The Emerald Necklace will include trails to meet the needs of joggers, cyclists, and equestrian riders as well as users of all ages and abilities seeking to enjoy the city's open spaces. Access, park service levels, and facilities meeting the needs of the community's diverse population will be considered in long-range planning, especially in areas targeted for infill and new development.

The community's agricultural heritage will be celebrated through educational programs and seasonal festivals that bring income to area farmers and the 200+ small farms in the city. The community will organize and initiate farmers' markets in major accessible locations, and local leaders will help to partner grocers and restaurants with growers to increase availability of local produce around town.

7.1 ACTIVE LIFESTYLE

Principles

- 7-P.1 Promote active lifestyles and community health by furthering access to trails, parks, public open space, and other recreational opportunities. (Staff recommendation)
- 7-P.2 Promote programs and community events to support active living. (Staff recommendation)
- 7-P.3 Encourage businesses to support employee programs that facilitate healthy living. (GPSC recommendation)

7.2 PARKS AND RECREATIONAL OPEN SPACE

PARKS

Principles

- 7-P.4 Create and maintain a high quality, diversified park system that enhances Redlands' unique attributes. (1995 General Plan)

- 7-P.5 Provide parkland for a comprehensive range of active recreational needs, including sports fields and facilities, playgrounds, and open spaces for passive recreation. (Staff recommendation)
- 7-P.6 Provide adequate park acreage and recreation facilities conveniently accessible to all present and future residents. (1995 General Plan)
- 7-P.7 Enhance the presence of recreational opportunities in the city and increase park use by selecting new, highly accessible locations for parks. (1995 General Plan)
- 7-P.8 Continue cooperative efforts with the Redlands Unified School District through joint use agreements for park and recreational facilities. Locate new neighborhood parks in conjunction with elementary or middle schools wherever feasible. (1995 General Plan)
- 7-P.9 Minimize substitution of private recreation facilities for developer fee payment or park dedication to ensure that a public park system will be permanently available to the entire community. (1995 General Plan)
- 7-P.10 Review park standards periodically to determine whether needs are being satisfied and how long-term costs will be met. (1995 General Plan)
- 7-P.11 Routinely review the adequacy of available of funds for park improvements, including impact fees. (GPSC recommendation)
- 7-P.12 Equitably share the cost of parkland creation and maintenance between existing and new residents, businesses, and property owners. (1995 General Plan)

Actions

- 7-A.1 Develop and maintain a Parks and Recreation Master Plan. (Staff recommendation)
- 7-A.2 Provide 5 acres of neighborhood and community park area for each 1,000 Planning Area residents, and additional parkland for specialized, and low-use park acreage. (Modified from General Plan standard of 5 to 6 acres for all parkland, to 5 acres for neighborhood and community parks, consistent with the City's Subdivision Regulations and State law [Quimby Act])
- 7-A.3 Where suitable land is available at acceptable cost, provide all residential areas with a neighborhood/community park (of 8 or more acres where available). (1995 General Plan)
- 7-A.4 Provide parkland in areas where population increase is expected (such as transit villages), partner with the school district to improve access to recreational facilities for nearby residents in parkland-deficient neighborhoods, and eventually site parkland within convenient distance of youth in the schools. (Staff recommendation)
- 7-A.5 Utilize under-used sites in commercial/industrial areas, such as SCE right-of-way, easements, and orange groves, to provide recreational areas for employees working in those areas. (Staff recommendation)
- 7-A.6 Consider access, park service levels, and facilities meeting the needs of the community's diverse population in long-range park planning, especially in areas targeted for infill and new development. (Staff recommendation)
- 7-A.7 Calculate park fees to enable purchase of acreage and provision of off-site improvements for 5 acres of parkland per 1,000 residents added. (1995 General Plan)

- 7-A.8 Annually review the parkland dedication formula to stay current with demographic information and market values. (Staff recommendation)
- 7-A.9 Identify the needs of special user groups, such as the disabled and elderly, low-income individuals, and underserved and at-risk youth, and address these in park and recreation facility development. (1995 General Plan)
- 7-A.10 Continue levying a parks and open space fee on non-residential development commensurate with expected use of park and recreational facilities by employees. (1995 General Plan)
- 7-A.11 Seek any available State and federal grant assistance in implementing the parks and open space proposals of the General Plan. (1995 General Plan)
- 7-A.12 Use available techniques, such as working with non-profit land trusts, to minimize acquisition costs. (1995 General Plan)
- 7-A.13 Routinely review the adequacy of available of funds for park improvements, including impact fees. (GPSC recommendation)
- 7-A.14 Continue annual review of five-year plan recommendations by the Strategic Planning/Open Space Committee of the Parks and Recreation Commission for needs and available funding mechanisms. (1995 General Plan)
- 7-A.15 Investigate methods for improving access to private parks. (GPSC recommendation)
- 7-A.16 Continue the dedication of land along the Santa Ana bluff for a continuous linear park to be used as picnic and scenic area, and trail. (1995 General Plan)
- 7-A.17 Encourage the development through acquisition and/or dedication of a linear park along the Zanja and the railroad right-of-way. (1995 General Plan)

RECREATION

Principle

- 7-P.13 Maximize the availability of recreational facilities and activities throughout the city. (1995 General Plan)

Actions

- 7-A.18 Strive to ensure that all areas of the community have an equal distribution of recreational facilities to maximize access and activities. (1995 General Plan modified)
- 7-A.19 Seek partnerships with schools and private entities to provide more recreational opportunities for citizens. (1995 General Plan)
- 7-A.20 Evaluate and consider expanding after-school recreation programs. (1995 General Plan)
- 7-A.21 Require that the recreational needs of children and adults, including seniors and dependent adults, be addressed in development plans. (1995 General Plan)
- 7-A.22 Consider retrofitting older parks with opportunities for additional parking and access. (GPSC recommendation)

TRAILS

Principles

- 7-P.14 Create and maintain a system of trails serving both recreational and emergency access needs. (1995 General Plan)
- 7-P.15 Complete the Emerald Necklace system of scenic routes and trails, including the Orange Blossom Trail, Zanja Trail, Santa Ana River Trail, San Timoteo Trail, and other trails linking parks, regional trails, and open space areas. (Staff recommendation + General Plan + GPSC recommendation)
- 7-P.16 Ensure that the trails in the Emerald Necklace meet the needs of joggers, cyclists, and equestrian riders, as well as users of all ages and abilities seeking to enjoy the city's open spaces. (Staff recommendation + General Plan + GPSC recommendation)
- 7-P.17 Work with landowners to develop, acquire, and maintain the trail system. (Modified 1995 General Plan)

Actions

- 7-A.23 Use the Trails Plan (Figure xxx) for designation and general location of local and regional trails within the Planning Area. (Modified 1995 General Plan – removed development of Trails Master Plan to show Secondary Community and Connector Trails)
- 7-A.24 Coordinate trail planning with bike route planning in preparation for updates to the Redlands Bicycle Master Plan. (Staff recommendation)
- 7-A.25 Establish agreement with public agencies and private entities for development and maintenance of trails in rights-of-way and utility corridors. (1995 General Plan)
- 7-A.26 Partner with non-profit organizations such as the Redlands Conservancy and Crafton Hills Conservancy to assist in developing and managing the trails system and providing community outreach and education. (Updated from 1995 General Plan that calls for setting up a non-profit to do this)
- 7-A.27 Seek grants and alternative funding mechanisms for trail development and maintenance. (1995 General Plan)
- 7-A.28 Consider referring projects to the Parks and Recreation Commission for review and recommendations of trails. (1995 General Plan)
- 7-A.29 Review new development proposals for compliance with the Trails Plan and provide for right-of-way dedication and improvement/development of trails. (1995 General Plan)
- 7-A.30 Install recreational amenities such as rest areas, benches, water facilities, and hitching posts to be incorporated into trails. (1995 General Plan)
- 7-A.31 Locate trail rights-of-way with concern for safety, privacy, convenience, preservation of natural vegetation and topography, and impact on neighboring properties, and work with landowners on development proposals to incorporate and provide for a continuous multi-use trail system. (1995 General Plan, combines two actions)
- 7-A.32 Expand street landscape standards to include trail landscape standards. (1995 General Plan)

- 7-A.33 Design and install wayfinding signs for trails and scenic routes. (Staff recommendation)
- 7-A.34 Coordinate trail planning with other regional plans to ensure connectivity and access to the regional trail system. (Staff recommendation)

7.3 PUBLIC HEALTH

Healthy Transportation and Physical Activity

Principles

- 7-P.18 Ensure that all Redlands residents have access to a variety of transportation and physical activity options that enhance health and that work for diverse lifestyles, incomes, and abilities. (Staff recommendation)
- 7-P.19 Achieve more walkable, livable neighborhoods by expanding the multi-modal transportation system and creating a safe, pedestrian-oriented environment. (Staff recommendation)

Actions

- 7-A.35 Implement street design features that facilitate walking and biking in both new and established areas. Require a minimum standard of these features for all new developments. (Staff recommendation)
- 7-A.36 Prioritize completing incomplete sidewalks within a half-mile radius of existing commercial development. (GPSC recommendation)
- 7-A.37 Install appropriate facilities along streets and at roadway intersections to ensure and improve pedestrian safety. (GPSC recommendation)
- 7-A.38 Improve signage directing residents and visitors to public parks and recreational facilities from all parts of the community. Integrate parks signage with bikeway and pedestrian-oriented signage systems throughout Redlands. (Staff recommendation)
- 7-A.39 Improve the conditions for youth walking and bicycling in the areas surrounding schools by working with the school district on the Safe Routes to School program. Assess and prioritize identified Safe Routes to School infrastructure improvements in annual transportation improvements budgets. (Staff recommendation)
- 7-A.40 Work with interested community members and organizations to plan and develop a course of exercise circuits that take advantage of existing parks, trails, and other pedestrian infrastructure. The course should be clearly marked, and contain simple stations and diagrams for self-guided training. (Staff recommendation)
- 7-A.41 Encourage businesses or non-profit organizations to offer indoor recreational facilities and programs compatible with existing commercial, office, and industrial structures and zones, such as batting cages, rock climbing walls, basketball/indoor soccer facilities, and studios offering martial arts, aerobics, and yoga classes. (Staff recommendation)

- 7-A.42 Support the use of clean fuel and “climate friendly” vehicles in order to reduce energy use, energy costs, and greenhouse gas emissions by residents, businesses, and City government activities. (Staff recommendation)
- 7-A.43 Promote educational programs aimed at reducing obesity rates of residents. (GPSC recommendation)
- 7-A.44 Encourage the provision of bike lockers, bike-sharing, and other methods of supporting active transportation that can contribute to healthy lifestyles. (GPSC recommendation)

SUSTAINABLE FOOD SYSTEMS

Principles

- 7-P.20 Promote locally grown foods. (Sustainability Plan)
- 7-P.21 Create a healthy, balanced, functional, and equitable food system by:
- Reducing barriers and increasing access to locally-grown fruits and vegetables (Sustainability Plan); and
 - Increasing community-wide knowledge of healthy local food choices. (Staff recommendation)
- 7-P.22 Support the creation of community gardens throughout the community. (Staff recommendation)

Actions

- 7-A.45 Promote locally-grown foods through the following initiatives (Sustainability Plan):
- Establish organic and local farming economic development zones in San Timoteo Canyon, Crafton, and other suitable locations;
 - Investigate State and local financing programs to assist with expanding the local farming programs;
 - Expand the community garden program subject to funding and land availability; and
 - Eliminate barriers to and establish incentives for increased local food production.
- 7-A.46 Support farmers markets throughout the city. (Staff recommendation)
- 7-A.47 Use zoning to establish incentives for locating grocery stores with healthy food in neighborhood centers and to increase community-wide access to healthy food. (Staff recommendation)
- 7-A.48 Seek ways to partner with Redlands based community supported agriculture (CSA) programs as an alternative source of fresh and healthy fruits and vegetables for Redlands’ residents—particularly those with limited mobility or limited income and those farthest from existing grocery stores. (Staff recommendation)
- 7-A.49 Support home gardening and small-scale urban farming efforts by considering the adoption of a home gardening and urban agriculture ordinance or by otherwise ensuring that zoning allows for home gardens and small-scale urban farming, and provide residents with opportunities to learn

gardening basics and how to cook easy, healthy meals with fresh produce (e.g., online and library resources and workshops). (Staff recommendation)

7-A.50 Work with residents and other community organizations to plan and implement a Redlands Community Gardens program that would provide a source of fresh produce to gardeners and offer learning opportunities for young and old alike. The intent is that access is free, and where there are costs, there would also be relief for low-income residents to the extent feasible. More specifically, the City will (Staff recommendation):

- Identify sites and support a Community Gardens program by securing insurance and providing water;
- Identify other suitable locations for future gardens (e.g., on school sites, on vacant lots or portions of other City-owned property);
- Include Redlands residents in the design and operation of the gardens;
- Enable gardeners to sell their produce through a local farmers' market;
- Work with food banks and local organizations such as Helping Hands Pantry, to manage the donation of surplus produce to families in need; and
- Periodically evaluate the program and make adjustments as appropriate.

7-A.51 Help schools make the healthy food connection by working cooperatively with the school district to (Staff recommendation):

- Establish high nutrition standards for school breakfast and lunch menus;
- Work to incorporate culturally-sensitive options (vegetarian, kosher, halal) into available meal plans;
- Remove unhealthy food and drinks from vending machines on school property;
- Establish appropriate sites and programs for school gardens to be used in curricula, after-school activities, and as a source of fresh produce for school meal plans; and
- Coordinate a "Farm to School" program that connects local farms to Redlands schools and supplies the balance of fresh produce beyond what is available from the school gardens and the school district's lunch program.

7-A.52 Develop and implement a healthy food purchasing and vending policy for City facilities and operations that commits to selecting healthy, well-balanced meals and snacks for City-sponsored activities, meetings, and facilities. (Staff recommendation)

7-A.53 Adopt zoning controls to limit the number of fast food outlets and drive-through restaurants near schools, the University of Redlands, and in transit villages. (Staff recommendation)

7-A.54 Support the raising of domestic farm animals, poultry, and bee-keeping in appropriate areas of the city. (GPSC recommendation)

7-A.55 Develop incentives for new farmer training. Explore land leasing programs for new farmers. (GPSC recommendation)

7-A.56 Support agritourism within Redlands by eliminating barriers for farms to provide events such as weddings, cooking classes, "dinner on the farm" and other events.

EQUITY AND ACCESS TO A BROAD RANGE OF SERVICES

Principles

- 7-P.23 Promote health equity, including equal access to health facilities, goods, services, and economic and educational opportunities, helping to ensure well-being for residents of all ages, abilities, and incomes. (Staff recommendation)
- 7-P.24 Create complete neighborhoods with access to a range of day-to-day goods and services within walking distance of residences, including medical facilities, community services, youth programs, and employment opportunities to increase the sense of social cohesion among residents. (Staff recommendation)

Actions

- 7-A.57 Collaborate with San Bernardino County Public Health Department and other agencies to monitor health data related to Redlands outcomes, risk factors, and at-risk and vulnerable populations and individuals, and use these data to inform residents of new County and City programs serving the Redlands community. (Staff recommendation)
- 7-A.58 Work with Redlands Community Hospital and other healthcare providers to locate new urgent care centers and outpatient facilities in underserved neighborhoods, where appropriate. (Staff recommendation)
- 7-A.59 Use economic development efforts to recruit medical services to Redlands, including dentists, pediatricians, family physicians, and clinics that provide drug and alcohol treatment and counseling. (Staff recommendation)
- 7-A.60 Assist with conversion of liquor stores to other retail that better meets community needs. Give priority to the conversion of those within a quarter-mile of schools and parks. Forms of support could include (Staff recommendation):
- Facilitating physical improvements (e.g., new freezers or coolers for perishables; new signs to change store names from “Liquor” to “Market”);
 - Assisting with business plan development to help owners find the right product fit for the community; and
 - Hosting a semi-annual “check-in” open house for storeowners to trouble-shoot challenges associated with building maintenance, new products, and interactions with community members.
- 7-A.61 Work with interested organizations and residents to create a youth job development partnership, connecting local businesses to teens for after-school and summer work, volunteer positions, and other skills development opportunities. (Staff recommendation)
- 7-A.62 Evaluate and make changes to the project review and permitting process to encourage and facilitate incorporation of universal life cycle design principles (design that promotes the ability to remain in one’s house as one ages) in new residential development, allowing community members to stay in their homes and neighborhoods longer, thereby increasing community cohesion. (Staff recommendation)

- 7-A.63 Expand access to health facilities through public transportation. (GPSC recommendation)
- 7-A.64 Consider zoning classifications changes to encourage more medical/professional service uses along Colton Avenue and Orange Street and other older commercial corridors. (GPSC recommendation)

CRIME PREVENTION AND SAFETY PERCEPTION

Principles

- 7-P.25 Use planning and environmental design tools to deter crime, increase respect for neighbors and property, and improve the public perception of safety throughout the community. (Staff recommendation)
- 7-P.26 Encourage a sense of ownership, community pride and civic respect as a means of improving the safety and image of the city. (Staff recommendation)

Actions

- 7-A.65 Incorporate Crime Prevention through Environmental Design principles and best practices into the Zoning Ordinance and project review procedures for new development and major renovations. Guidelines and checklists should include concepts such as: (Staff recommendation)
- **Natural Surveillance**, e.g. orient buildings and windows to provide maximum surveillance of exterior areas, and locate entryways such that they are visible to adjacent neighbors or passersby;
 - **Natural Access Control**, e.g. use landscaping such as low hedges and flowerbeds to identify points of entry and movement on property, and use signage and symbolic barriers to direct vehicular and pedestrian traffic;
 - **Natural Territorial Reinforcement**, e.g. use thorny or thick plant materials in perimeter landscape areas to discourage cutting through parking areas and rear yards, trampling vegetation, approaching ground floor windows, or climbing fences and walls;
 - **Maintenance**, e.g. make it easier to maintain property by recommending graffiti-resistant surface materials, vandal-proof lighting, and landscaping selected for durability and easy maintenance; and
 - **Shared Facilities**, e.g. promote activity in public areas throughout the day by coordinating shared uses of facilities (parking lots, parks, sports fields). Enforce property maintenance and environmental design regulations for businesses, especially “corner stores,” including regulations for alcohol and tobacco advertisements. Assist storeowners in identifying low-cost solutions to maintenance issues and provide financial assistance to qualifying businesses. Continue to enforce provisions in the municipal code to manage alcoholic beverage sales locations and hold storeowners accountable for litter, graffiti, assault, prostitution, or other public nuisance connected to their stores.
- 7-A.66 Ensure that Redlands has minimum illumination standards for streetlights and, if necessary, update the standards to reflect best practices for safety lighting. (Staff recommendation)

- 7-A.67 Continue community policing and relationship-building programs, including educational and mentoring initiatives with schools and the community center (Staff recommendation)
- 7-A.68 Continue to involve residents in neighborhood improvement efforts, including those concerning safety, neighborhood character, planning, and revitalization. (Staff recommendation)
- 7-A.69 Enhance the aesthetics and quality of the housing stock and remove blight by implementing policies and programs identified in the Housing Element. (Staff recommendation)
- 7-A.70 Improve the sense of safety within Downtown, including the Redlands Mall. (GPSC recommendation)

7.4 SAFETY

DRAINAGE AND FLOODING

Principles

- 7-P.27 Protect lives and property and ensure that structures proposed for sites located on flood plains subject to the 100-year flood are provided adequate protection from floods. (1995 General Plan)
- 7-P.28 Preserve as open space those areas that cannot be mitigated for flood hazard. (1995 General Plan)
- 7-P.29 Support a multi-use concept of flood plains, flood-related facilities, and waterways, including, where appropriate, the following uses: (1995 General Plan)
- Flood control;
 - Groundwater recharge;
 - Mineral extraction;
 - Open space;
 - Nature study;
 - Habitat preservation;
 - Pedestrian, equestrian, and bicycle circulation; and
 - Outdoor sports and recreation.

Actions

- 7-A.71 Continue participation in the National Flood Insurance Program (NFIP) and the Community Rating System to ensure that the City is incentivized to reduce the risk of damage from flooding and improve flood preparedness. (Staff recommendation)
- 7-A.72 Consider the impacts to health and safety from potential flooding on future development in flood-prone areas, including Downtown Redlands. Ensure that new development follows appropriate design standards. (Staff recommendation)

- 7-A.73 Reduce the flooding impact of a storm event by enhancing the city’s green infrastructure system to complement its grey infrastructure throughout the watershed. (Staff recommendation)
- 7-A.74 Use the Drainage Master Plan to implement improvements to the drainage system in order to address flooding impacts. Where feasible, use “green initiatives” identified in the Master Plan to install site infiltration basins and bioretention facilities in places where they may be most effective. (Staff recommendation)
- 7-A.75 In the event of failure of the Seven Oaks or Bear Valley dams, implement emergency measures consistent with the City's Local Hazard Mitigation Plan. (1995 General Plan)
- 7-A.76 Coordinate with the U.S. Army Corps of Engineers and San Bernardino County throughout the construction, mitigation, and operation of the various components/projects that make up the “Santa Ana River Mainstem Project” that will directly affect the Planning Area. These projects include the following: the Seven Oaks Dam, the improvement to the Mill Creek levees (completed), and the planned improvements along the three reaches of the San Timoteo Creek Project. (Modified General Plan – includes recent projects and updates)
- 7-A.77 Work with FEMA to ensure that the City’s flood plain information is up-to-date with the latest available hydrologic and hydraulic engineering data. (GPSC recommendation)

FIRE HAZARDS

Principles

- 7-P.30 Work to prevent wildland and urban fire, and protect lives, property, and watersheds from fire dangers. (1995 General Plan)

Actions

- 7-A.78 Adhere to the requirements for high fire hazard areas designated by the Redlands Fire Department on the official Roof Classification Zone Map, and as specified in the document on file at the Redlands Fire Department describing High Fire Hazard Area Fire Safety Modification Zones. (1995 General Plan)
- 7-A.79 Monitor fire-flow capability throughout the Planning Area, and improve water availability if any locations have flows considered inadequate for fire protection. (1995 General Plan)
- 7-A.80 Monitor methane gas production at active and inactive landfills and take preventive action if gas production creates a significant fire hazard. (Modified 1995 General Plan – removed commentary, which is outdated)
- 7-A.81 Devise alternative fire protection standards suitable for Rural Living areas not exposed to high wildland fire hazards. (1995 General Plan)
- 7-A.82 Consult the San Bernardino County Fire Safety Overlay Ordinance for possible appropriate implementation measures for development in the foothills area. (Modified 1995 General Plan – removed commentary)
- 7-A.83 Require that all projects proposed in areas that are at risk from wildfire adhere to requirements under Redlands Fire Department Prevention Standard "Fire Safety Modification Zones 1 and 2". (1995 General Plan)

SEISMICITY, GEOLOGY, AND SOILS

Principles

- 7-P.31 Investigate and mitigate geologic and seismic hazards or locate development away from such hazards, in order to preserve life and protect property. (1995 General Plan)
- 7-P.32 Support implementation of San Bernardino County General Plan policies relating to geologic and seismic hazards in unincorporated areas and consult with the San Bernardino County Geologist where conflicting information exists or where no published information is available. (1995 General Plan)

Actions

- 7-A.84 Continue to restrict development within Alquist-Priolo Earthquake Fault Zones and along other active and potentially active faults that have not yet received Alquist-Priolo classification. (1995 General Plan)
- 7-A.85 Refer to the latest fault maps. Consult with the Division of Mines and Geology if there are issues or questions concerning fault alignment. Evaluate and, if necessary, perform site-specific investigation for development proposed on or near Alquist-Priolo Earthquake Fault Zones as well as within 500' of other active/potentially active faults as depicted on General Plan Figure x. (1995 General Plan)
- 7-A.86 Require areas identified as having significant liquefaction potential (including secondary seismic hazards such as differential compaction, lateral spreading, settlement, rock fall, and landslide) to undergo geotechnical study prior to development and to mitigate the potential hazard to a level of insignificance or, if mitigation is not possible, to preserve these areas as open space or agriculture. (1995 General Plan)
- 7-A.87 Use the building inspection program to inventory and evaluate earthquake hazards in existing buildings, especially buildings with unreinforced masonry (URM), using the most current seismic design standards and hazard reduction measures, and continue the program for the systematic upgrading of seismically unsafe buildings. Continue to explore measures to induce building owners to upgrade and retrofit structures to render them seismically safe. (Modified 1995 General Plan – includes new commentary on URM buildings)
- 7-A.88 Undertake review of critical facilities that may be vulnerable to major earthquakes, and undertake programs to upgrade them. (Modified General Plan – simpler policy, but includes more robust commentary on recent Plans and updated data)
- 7-A.89 Develop a City-based public awareness/earthquake preparedness program to educate the public about seismic hazards and what to do in the event of an earthquake. (1995 General Plan)
- 7-A.90 Continue to regulate development on slopes greater than 15 percent (15 foot rise in 100 feet run) to minimize soil erosion, landslides, water runoff, flood hazards, loss of habitat, and wildfire hazards. For land exceeding 30 percent slope, limit density to one housing unit per 10 acres or one housing unit per parcel existing on the date of adoption of the General Plan if under 10 acres. Transferring densities from steeper areas to flatter portions of the site is desirable and preferred. (1995 General Plan modified)

- 7-A.91 For new construction and exterior building expansions including multi-story additions or lateral expansions as deemed appropriate by the City Building Department, require the preparation of a geotechnical/soils/geologic report by a registered civil geotechnical/soils engineer and a certified engineering geologist. This report shall address erodible or expansive and collapsible soils, existing or potential landslides, areas with unsuitable percolation characteristics, large-scale subsidence, non-rippable bedrock areas, ground motion parameters, active/potentially active faulting, liquefaction, and any other geotechnical concepts as appropriate, and make recommendations for mitigating any potential adverse impacts. (1995 General Plan)
- 7-A.92 Require soil erosion mitigation during construction. (1995 General Plan)
- 7-A.93 Adopt revisions of the California Building Code that incorporate the most current seismic design standards and hazard reduction measures recommended by the Applied Technology Council (ATC), the Structural Engineers Association of California (SEAOC), the Earthquake Engineering Research Institute (EERI), the Seismic Safety Commission, and the Southern California Earthquake Center. (1995 General Plan)
- 7-A.94 Use the Local Hazard Mitigation Plan to address issues related to seismic hazards, including hazardous materials incidents, hazardous buildings, critical facilities (i.e., schools, hospitals), emergency response preparedness and recovery with consideration to evacuation routes, peak load water supply requirements, and minimum road-width/clearance around structures. (Staff recommendation)

WIND HAZARDS

Principles

- 7-P.33 Protect people and property from the adverse impacts of high winds. (1995 General Plan)

Actions

- 7-A.95 Monitor issues related to damage from windstorms and undertake precautionary measures as needed, such as tree trimming. (Simplified from 1995 General Plan which calls for identifying areas and undertaking specific steps)

ELECTROMAGNETIC FIELDS

Principle

- 7-P.34 Use education and practical ways of reducing exposure to electromagnetic fields (EMFs) near transmission lines and other sources. (Staff recommendation)

Action

- 7-A.96 Setback new schools, housing, and care facilities from high voltage power lines or substations. (Modified 1995 General Plan policy – additional commentary)

TRANSPORTATION OF HAZARDOUS MATERAILS

Principles

- 7-P.35 Protect residents from the potential dangers of broken or damaged fuel lines. (1995 General Plan)
- 7-P.36 Protect residents from the potential dangers of hazardous cargos. (GPSC recommendation)

Actions

- 7-A.97 Develop an emergency response plan that adequately addresses the impacts of a broken natural gas or petroleum line in the city, as well as the transportation of hazardous cargo. Coordination is needed between the Police and Fire Departments, Southern California Gas Company and Santa Fe Pacific Pipelines, and the City's emergency response team (1995 General Plan)
- 7-A.98 Provide sufficient information to schools, housing, and care facilities for fuel lines that exist or that are to be constructed in the Planning Area. (1995 General Plan)

AIRPORT/AVIATION SAFETY

Principles

- 7-P.37 Implement the policies and standards of the Redlands Municipal Airport Land Use Compatibility Plan (ALUCP). (1995 General Plan)

Actions

- 7-A.99 Review all projects within the Compatibility Zone Boundaries established by the ALUCP for conformity to the criteria set forth in the Primary Compatibility Criteria Matrix of the ALUCP. (1995 General Plan)

EMERGENCY MANAGEMENT

Principles

- 7-P.38 Use the City of Redlands Local Hazard Mitigation Plan as the guide for disaster planning in the Redlands Planning Area. (1995 General Plan)
- 7-P.39 Aim for City-level self-sufficiency in emergency response. (1995 General Plan)

Actions

- 7-A.100 Use the City of Redlands Local Hazard Mitigation Plan as the guide for identifying hazard risks and vulnerabilities, identifying and prioritizing mitigation actions, encouraging the development of local mitigation, and providing technical support for these efforts. (Staff recommendation)
- 7-A.101 Continue to update and revise the Local Hazard Mitigation Plan as needed to reflect changes in the Planning Area and in emergency management techniques, including specific local hazards

that may not be included in the plan. (Modified 1995 General Plan – includes changes in management techniques)

- 7-A.102 Establish community programs to train volunteers to assist police, fire, and civil defense personnel during and after a major earthquake, fire, flood, or other major disaster. (1995 General Plan)

7.5 NOISE

Principles

- 7-P.40 Protect public health and welfare by eliminating existing noise problems where feasible and by preventing significant degradation of the future acoustic environment. (1995 General Plan)
- 7-P.41 Ensure that new development is compatible with the noise environment by continuing to use potential noise exposure as a criterion in land use planning. (Modified 1995 General Plan – ensuring compatibility rather than incorporating considerations into land use planning)
- 7-P.42 Guide the location and design of transportation facilities, industrial uses, and other potential noise generators to minimize the effects of noise on adjacent land uses. (Staff recommendation)
- 7-P.43 Ensure long-term compatibility between the Redlands Municipal Airport and surrounding land uses. (Staff recommendation)
- 7-P.44 Support measures to reduce noise emissions by motor vehicles, aircraft, and trains. (1995 General Plan)

Actions

Land Use and Noise Compatibility

- 7-A.103 **Acceptability of Use Location.** Use the noise and land use compatibility matrix (Table 7.3-1) and Future Noise Contours map (Figure 7.3-3) as criteria to determine the acceptability of a given land use, including the improvement/construction of streets, railroads, freeways, and highways. Do not permit new noise-sensitive uses—including schools, hospitals, places of worship, and homes—where noise levels are “normally unacceptable” or higher, if alternative locations are available for the uses in the city. (Modified 1995 General Plan policy; includes reference to future noise figure and cleaner language)
- 7-A.104 **Interior Residential Noise.** Require mitigation to ensure that indoor noise levels for residential living spaces does not exceed 45 dB LDN/CNEL due to the combined effect of all exterior noise sources. (1995 General Plan)
- 7-A.105 **Required Noise Analysis for Noise Exposure other than “Normally Acceptable”.** Require a noise analysis be conducted for all development proposals (except for developments of single-family homes with four units or fewer) located where projected noise exposure would be other than “normally acceptable” as specified in Table 7.3-1. (Modified 1995 General Plan policy to provide clarity and outdated references, and specifies what noise analysis should contain)

A required noise analysis should:

- a. Be prepared by a certified noise consultant or acoustical engineer;
- b. Be funded by the applicant;
- c. Include a representative, on-site day and night sound level measurement;
- d. Include a delineation of current (measured) and projected (General Plan or 10 years in future, whichever horizon extends further out) noise contours;
- e. Include allowable levels for the proposed use;
- f. Identify noise levels with and without the proposed project, ranging from 55 to 75 dBA (Ldn) within the proposed development site; and
- g. If noise levels exceed the standards in Table 7.3-1, include a description of adequate and appropriate noise abatement measures to mitigate the noise to allowable levels for the proposed use.

7-A.106 **Noise-Attenuation.** For all projects that have noise exposure levels that exceed the standards in Table 7.3-1, require site planning and architecture to incorporate noise-attenuating features. With mitigation, development should meet the allowable outdoor and indoor noise exposure standards in Table 7.3-2. When a building's openings to the exterior are required to be closed to meet the interior noise standard, mechanical ventilation shall be provided. (Staff recommendation)

7-A.107 **Exterior Noise Levels Exceeding Acceptable Level.** If the noise analysis shows that exterior noise levels cannot be mitigated to an acceptable level as identified in Table 7.3-2, the development should not be approved without one or more of the following findings: (Staff recommendation)

- a. Changes or alterations have been required in, or incorporated into, the project that avoid or substantially lessen the noise.
- b. Changes or alterations to avoid or substantially lessen noise are within the responsibility and jurisdiction of another public agency and not the City of Redlands. Such changes have been adopted by such other agency or can and should be adopted by such other agency.
- c. Specific economic, social, or other considerations make infeasible the mitigation measures or project alternatives to avoid or substantially lessen noise.

If a project is approved with exterior noise levels exceeding the acceptable noise level, all purchasers of the impacted property shall be notified in writing prior to purchase, and by deed disclosure in writing, that the property they are purchasing is, or will be, impacted by noise and does not meet City of Redlands noise standards for residential property.

7-A.108 **Noise Generation.** As part of development project approval, require that noise generated by a project does not exceed standards established in Table 7.3-3. Require proposed commercial projects near existing residential land use to demonstrate compliance with the Community Noise Ordinance prior to approval of the project. (Modified 1995 General Plan – includes standards established in Table 7.3-3)

7-A.109 Ensure the effective enforcement of City, State, and federal noise levels by all appropriate City departments, and provide quick response to complaints and rapid abatement of noise nuisances within the scope of the City's police power. (1995 General Plan)

- 7-A.110 Coordinate with the California Occupational Safety and Health Administration (Cal-OSHA) to provide information on and enforcement of occupational noise requirements within the city. (1995 General Plan)
- 7-A.111 Limit hours for all construction or demolition work where site-related noise is audible beyond the site boundary. (1995 General Plan)

Motor Vehicle/Roadway Noise

- 7-A.112 Minimize potential transportation noise through proper design of street circulation, coordination of routing, and other traffic control measures. (1995 General Plan)
- 7-A.113 Require construction of barriers to mitigate sound emissions where necessary or where feasible to protect residential or other noise-sensitive land uses that are adjacent to freeways and regional arterials, commercial, or industrial areas. (1995 General Plan)
- 7-A.114 Provide for continued evaluation of truck movements in the city to provide effective separation from residential or other noise sensitive land uses. (1995 General Plan)
- 7-A.115 Encourage the enforcement of State Motor Vehicle noise standards for cars, trucks, and motorcycles through coordination with the California Highway Patrol and the Redlands Police Department. (1995 General Plan)
- 7-A.116 Work with Caltrans to establish sound walls along freeways where appropriate. (1995 General Plan)
- 7-A.117 Minimize impacts of loud trucks by requiring that maximum noise levels due to single events be controlled to 50 dB in bedrooms and 55 dB in other habitable spaces. (1995 General Plan)

Railroad Noise

- 7-A.118 Work with SANBAG and other agencies to ensure that the Redlands Rail project incorporates mitigation to minimize potential impacts to the surrounding noise-sensitive uses once the final design is complete. (Staff recommendation)
- 7-A.119 Coordinate with other agencies and private entities to implement a railroad quiet zone and other methods of reducing railroad noise impacts on surrounding uses along the Redlands Rail project and Southern Pacific Railroad. (Staff recommendation)
- 7-A.120 Require all future developments within the city that fall within the required noise screening distances, as specified in the Federal Transit Authority (FTA) Noise and Vibration Manual, of the Union Pacific railroad in San Timoteo Canyon to conduct a detailed noise analysis. (Staff recommendation)

Airport Noise

- 7-A.121 Coordinate with the San Bernardino International Airport Authority to minimize potential noise impacts to the City of Redlands that may result from overflights. (1995 General Plan)
- 7-A.122 For projects within the Redlands Municipal Airport Influence Area, utilize the noise standards contained in the Redlands Municipal Airport ALUCP, as well as the noise standards contained in this element. (Staff recommendation)

7.6 AIR QUALITY

Principles

- 7-P.45 Protect air quality within the City and support efforts for enhanced regional air quality. (synthesized from four General Plan Guiding Policies)
- 7-P.46 Aim for a diverse and efficiently-operated ground transportation system that generates the minimum amount of pollutants feasible. (1995 General Plan)
- 7-P.47 Increase average vehicle ridership during peak commute hours as a way of reducing vehicle miles traveled and peak period auto travel. (1995 General Plan)
- 7-P.48 Cooperate in efforts to expand bus, rail, and other forms of mass transit in the portion of the South Coast Air Basin within San Bernardino County. (1995 General Plan)
- 7-P.49 Involve environmental groups, the business community, and the general public in the formulation and implementation of programs that enhance air quality in the city and the region. (Modified 1995 General Plan – removed special interests)

Actions

- 7-A.123 To the extent practicable and feasible, maintain a system of air quality alerts (such as through the City website, internet, e-mail to City employees, and other tools) based on South Coast Air Quality Management District forecasts. Consider providing incentives to City employees to use alternative transportation modes during alert days. (Staff recommendation)
- 7-A.124 Provide, whenever possible, incentives for carpooling, flex time, shortened work weeks, telecommuting, and other means of reducing vehicular miles traveled. (Staff recommendation)
- 7-P.50 Promote expansion of all forms of mass transit to the urbanized portions of San Bernardino, Orange, Los Angeles and Riverside counties. Support public transit providers in efforts to increase funding for transit improvements to supplement other means of travel. (1995 General Plan)
- 7-A.125 Cooperate with the ongoing efforts of the U.S. Environmental Protection Agency, the South Coast Air Quality Management District, and the State of California Air Resources Board in improving air quality in the regional air basin. (Staff recommendation)
- 7-A.126 Ensure that construction and grading projects minimize short-term impacts to air quality. (Staff recommendation)
 - a. Require grading projects to provide a storm water pollution prevention plan (SWPPP) in compliance with City requirements, which include standards for best management practices (BMPs) that control pollutants from dust generated by construction activities and those related to vehicle and equipment cleaning, fueling, and maintenance;
 - b. Require grading projects to undertake measures to minimize mono-nitrogen oxides (NOx) emissions from vehicle and equipment operations; and
 - c. Monitor all construction to ensure that proper steps are implemented.

7-A.127 Establish and implement a Transportation Demand Management (TDM) Program. (1995 General Plan)