

County of Los Angeles

Park Design Guidelines and Standards



Department of Parks and Recreation
Planning & Development Agency



May 2017



COUNTY OF LOS ANGELES
DEPARTMENT OF PARKS AND RECREATION

"Parks Make Life Better!"

John Wicker, Director

Norma E. Garcia, Chief Deputy Director

May 22, 2017

**DEPARTMENT OF PARKS AND RECREATION
PARK DESIGN GUIDELINES AND STANDARDS**

Thank you for your interest in our Park Design Guidelines and Standards. The Department of Parks and Recreation (DPR) is honored to oversee the County of Los Angeles Park and Recreation System which includes 71,654 acres of local and regional parks, lakes, trails, golf courses, cultural event facilities, natural areas, and botanic gardens.

Our mission at DPR is to create healthy communities through people, parks and programs by offering family-oriented and culturally informed, health, nutrition, exercise programs, and educational opportunities that work together to improve the quality of life for all Los Angeles County residents.

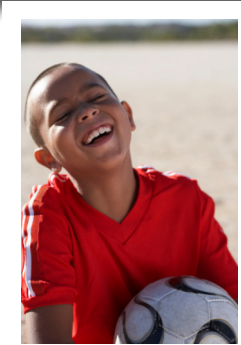
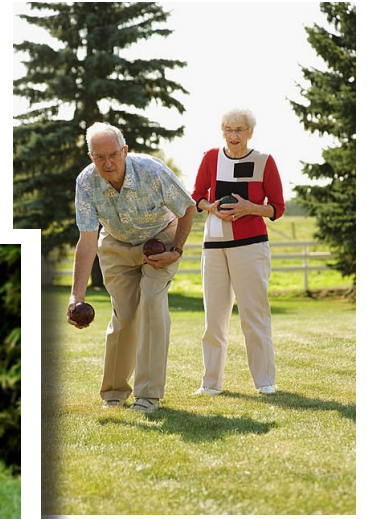
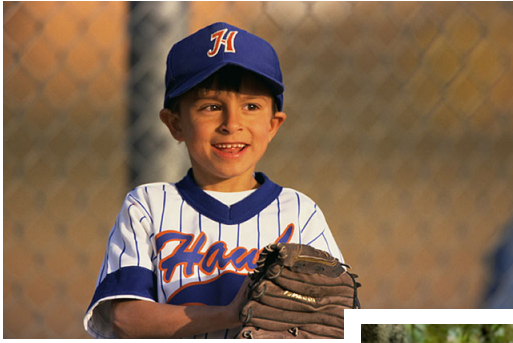
The Park Design Guidelines and Standards will provide our partners, design professionals and County staff with the tools necessary to deliver a consistent and high quality park design product.

The preparation of these Park Design Guidelines and Standards is a result of Department staff participation, peer review by County Departments and partnering agencies including non-profits and private development organizations representing a diversity of interests in County park design. DPR will review and revise this manual as necessary over time to embrace evolving park planning objectives and design criteria.

Accordingly, the DPR is pleased to present you with its Park Design Guidelines and Standards to continue the legacy of providing quality recreation experiences that are unique to the County of Los Angeles.

Sincerely,

John Wicker
Director



The Department of Parks and Recreation's Mission Statement

We will provide the residents and visitors of Los Angeles County with quality recreational opportunities that promote a healthy lifestyle and strengthen the community through diverse physical, educational and cultural programming, and will enhance the community environment by acquiring, developing and maintaining County parks, gardens, golf courses, trails and open space areas.

The Department of Parks and Recreation's Vision

"Our purpose is to improve the quality of life in Los Angeles County by providing responsive, efficient and high-quality public services that promote the self-sufficiency, well being and prosperity of individuals, families, businesses and communities."

We Create Community through People, Parks and Programs.

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Chapter 1 Introduction

The County of Los Angeles Department of Parks and Recreation owns and/or operates 69,547 acres of local and regional parkland. The local park system includes community parks, neighborhood parks, pocket parks, and open space nodes. The regional park system consists of regional parks and special use facilities including; golf courses, cultural event facilities, nature centers, equestrian facilities, wildlife sanctuaries, and botanic gardens. In addition to the local and regional parks systems, the Department also develops and maintains multiuse trails.

The Department is comprised of five agencies responsible for planning, development, operations, and maintenance of the parks system. The department's planning and development agency is responsible for multiple functions related to the planning

and design of recreation elements and facilities for the department. These functions include environmental and regulatory permitting, land acquisition, water conservation and planning, facility planning, trail planning, architecture and design.

The Department's four field agencies are structured to facilitate each region of the county by operating the North County Community Services Agency, South County Community Services Agency, East County Community Services Agency and the Regional Facilities Agency. These agencies are responsible for recreation programming, and maintenance in the County parks.



Project Goals and Purpose

The goal of the Park Design Guidelines is to develop a common approach to the design of the county wide park system. The development of a park design guideline manual will:

- a. Provide a guide for design professionals and field agency staff in the development of new parks and renovation projects.
- b. Provide guidelines for the implementation of sustainable practices.

The Park Design Guidelines will provide information in the following subject areas:

- Spatial Organization
- Site Layout
- Building Design
- Parking Lot Design
- Circulation
- Recreation Facilities
- Children's Play Areas
- Splash Pads
- Passive Recreation Areas
- Park Furnishings
- Landscaping
- Stormwater Management
- Utility Infrastructure

These guidelines will facilitate the Department in achieving the highest quality of design for capital improvement projects while fostering environ-

mental stewardship in all aspects of parkland development.

The Park Design Guidelines support the mission of the County and the Department by implementing the 2016-2020 L.A. County Strategic Plan for Economic Development goals adopted by the Board of Supervisors January 5, 2016 which were developed around seven (7) goals which express aspirations, and objectives for the purpose of ensuring higher standards of living for all the residents of Los Angeles County.

1. Invest in our people to provide greater opportunity - by creating facilities that provide access to programs that:
 - encourage engagement in all dimensions of human development, including physical and mental wellness, as well as social and emotional development
 - provide Wi-Fi, computer lab access and Information Technology programs
2. Strengthen our leading export-oriented industry clusters- by creating guidelines that:
 - encourage designers, developers and contractors to use locally manufactured, sustainable products and equipment
3. Accelerate innovation and entrepreneurship- by creating guidelines that:
 - encourage the use of progressive, sustainable technologies, products and practices to conserve energy and water
4. Be more business-friendly- by creating guidelines that:
 - assist our park design consultants and developers to work toward the same park goals and standards
5. Remove barriers to critical infrastructure development, financing and delivery- by creating guidelines that:
 - encourage the use of technology that effectively and affordably delivers public services, such as water distribution and electricity usage
 - assists in expediting park design and construction
 - encourage parks to be located in alternative locations, such as utility right-of-way corridors
6. Increase global connectedness- by creating parks and programs that:
 - showcase Los Angeles County's cultural diversity
 - provide Wi-Fi, computer lab access and Information Technology programs
7. Build more livable communities- by creating parks that:
 - enhance physical and mental well-being
 - encourage social and community interaction
 - exemplify environmentally sustainable practices

Design Guidelines

The Park Design Guidelines include design criteria for the development of most park elements. The unique design considerations of the department's special use parks and facilities, such as: wilderness parks, nature preserves, botanical gardens, nature centers, multi-use trails, performing arts centers, dog parks, aquatics facilities, lakes, campgrounds, skate parks, golf driving ranges and golf courses will not be specifically addressed in this document. However, much of the design information contained herein is applicable to special use parks and should be utilized in all park design.

Chapter 2 Park Design Guidelines

Chapter Introduction

The Park Design Guidelines take a broad approach to providing information to be used in the design of all County of Los Angeles Parks.

These guidelines will facilitate the County of Los Angeles Department of Parks and Recreation in achieving the highest quality of design for capital improvement projects while fostering environmental stewardship in all aspects of parkland development.

In addition to the design guidance included in this document, the design professional will be responsible for compliance to all regulatory and permitting requirements associated with a project, including, but not limited to:

- CEQA and NEPA site constraints
- Land acquisition constraints
- Americans with disabilities act (ADA), Title 24 compliance
- County Code Compliance
- Regulatory permitting requirements

Section 1

Spatial Organization

Spatial organization is an important park design element. Care and consideration needs to be given to the use of each space, the relationship between activities and future expansion opportunities in a park.

Often indoor and outdoor spaces are programed for multiple functions and should be designed to allow for flexibility of use. Parks are multi-generational spaces and consideration of park user compatibility must be

evaluated when determining the adjacency of site features.

These variables will be affected by construction cost, mechanical systems layout, user safety, site amenities and provisions for universal accessibility.

Thoughtful spatial organization encourages social interaction and user participation. This allows many diverse activities to occur simultaneously, while facilitating administrative visibility and control of the site.

The following spatial organizational principles are expressed and illustrated, see **Exhibit 1**, as typical criteria to describe how individual spaces complement one another to form functional areas, and how functional areas support one another to form a cohesive site design.

1.1 Physical Access & Adjacency

Compatibility

Physical access & adjacency compatibility gives consideration to requirements of safety (primary), compatibility, privacy, concentration of activities, ease of operations and administration.

- Activities should be grouped to maximize desirable effects (accessibility, control of participants, multi-uses) or separated to minimize conflicts including noise and degree of physical activity.
- The placement of active and passive spaces should allow for the simultaneous occurrence of diverse activities and diverse user groups participating in both planned activities and free play.

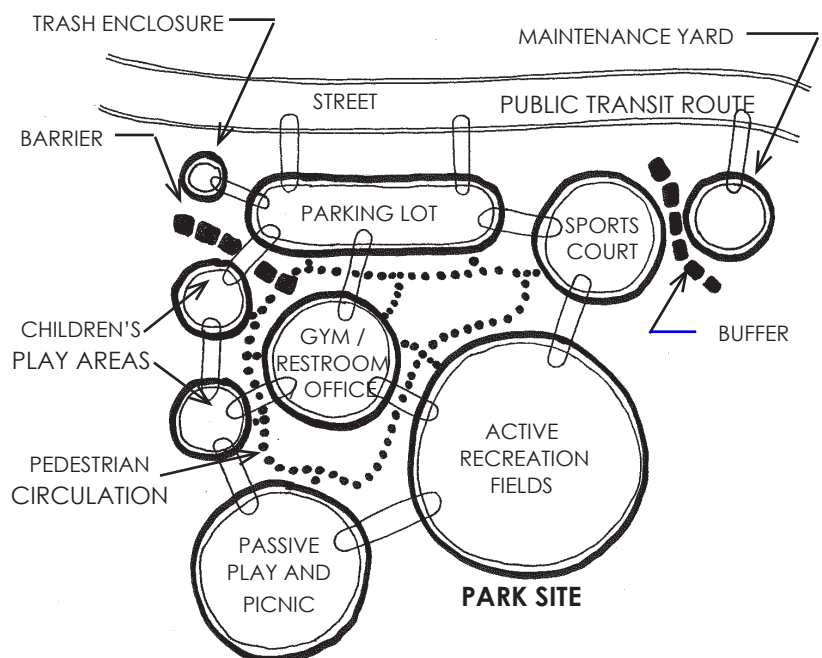


Exhibit 1: Park Adjacency Compatibility Diagram

- c. Locate facilities that draw the largest number of users such as gymnasiums, recreational centers, and pool facilities near or within view of established public transit routes. This encourages and facilitates alternative modes of travel to the programs and activities offered at the park facility. See Park Adjacency Compatibility Diagram **Exhibit 1**.
- d. Sports activities, field lights for evening sports activities, large group gatherings, pools and gymnasiums are all potential sources of disturbance to the surrounding community. Consider all adjacencies when placing park features.
- e. Locate restroom buildings within a 150' radius of recreation fields and a 100' radius of children's play areas.
- f. Trash enclosures should be located at least 50' away from all buildings.
- g. Locate maintenance yards away from children's play areas.

- h. Screen maintenance yards from adjacent activities.
- i. Arrange activity areas to encourage casual interaction among users by introducing transitional areas for lounging and providing visual access from one area into another.
- j. Locate parking facilities near major park site features to facilitate the park user, who may be carrying equipment and/or coolers to their destination.
- k. Locate on-site storm water management devices in non-pedestrian / non recreational areas.

1.2 Acoustics

Care should be taken in the placement of park features that may generate disruptive noise by an activity. Care should be taken to locate activities to minimize the impact of adjacent park activities to adjacent land uses. See Acoustical Consideration Diagram **Exhibit 2**.

All projects should comply with the County of Los Angeles noise control ordinance.

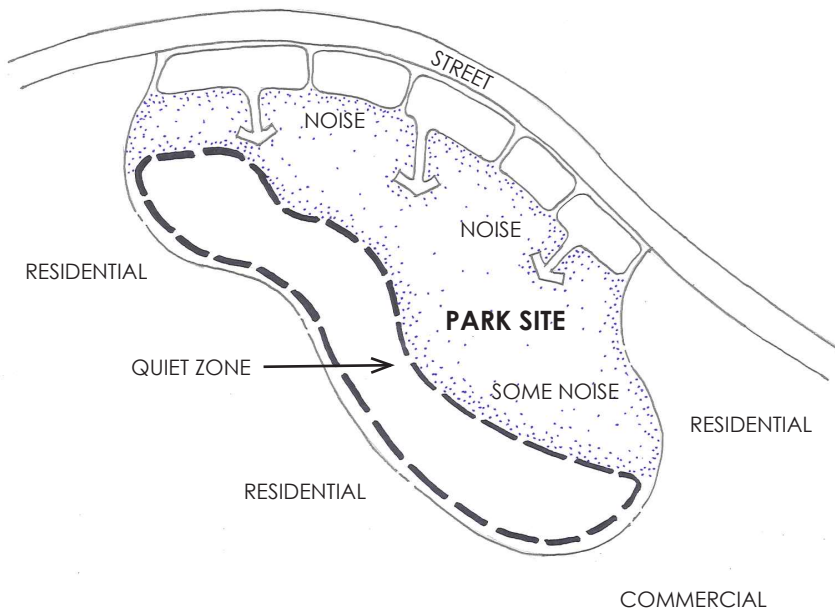


Exhibit 2: Acoustical Consideration Diagram

1.3 Visual Access

Visual access from one area to another is an important consideration for administrative control. It is also important in maintaining park patron awareness of adjacent activities.

1.4 Security and Safety

Provide consideration to safety and security during the site planning and design phase by understanding and utilizing the strategies of Crime Prevention Through Environmental Design (CPTED). The following strategies are recommended by the Community Development Commission of the County of Los Angeles¹ and The Los Angeles Police Department².

1.4.1 NATURAL SURVEILLANCE

Natural surveillance increases the threat of apprehension by taking steps to increase the perception that people can be seen. Natural surveillance occurs by designing the placement of physical features, activities and people in such a way as to maximize visibility and foster positive social interaction among legitimate users of private and public space. Potential offenders feel increased scrutiny and limitations on their escape routes.

- a. Place windows overlooking sidewalks and parking lots.
- b. Use passing vehicular traffic as a surveillance asset.
- c. Create landscape designs that provide surveillance, especially in proximity to designated points of entry and opportunistic points of entry.
- d. Use the shortest, least sight-limiting fence appropriate for the situation.
- e. Use transparent weather vestibules at building entrances.

¹ <http://www.lacdc.org/programs/construction-management/expertise/crime-prevention-through-environmental-design>

² http://www.lapdonline.org/crime_prevention/content_basic_view/8852

- f. When creating lighting design, avoid poorly placed lights that create blind-spots for potential observers and miss critical areas. Ensure potential problem areas are well-lit: pathways, stairs, entrances/exits, parking areas, kiosks, bus stops, children's play areas, recreation areas, pools, storage areas, dumpster and recycling areas, etc.
- g. Avoid too-bright security lighting that creates blinding glare and/or deep shadows, hindering the view for potential observers. Eyes adapt to night lighting and have trouble adjusting to severe lighting disparities. Using lower intensity lights often requires more fixtures.
- h. Use shielded or cut-off luminaires to control glare.
- i. Place lighting along pathways and other pedestrian-use areas at proper heights for lighting the faces of the people in the space (and to identify the faces of potential attackers).
- j. All security and surveillance features will be subjected to review and input by the Sheriff's Department Parks Bureau in the design phase of a project to ensure that all security needs are properly addressed.

1.4.2 NATURAL ACCESS CONTROL

Natural access control limits the opportunity for crime by taking steps to clearly differentiate between public space and private space. By selectively placing entrances and exits, fencing, lighting and landscape to limit access or control flow, natural access control occurs.

- a. Use a single, clearly identifiable, point of entry.
- b. Use structures to divert persons to reception areas.
- c. Use low thorny bushes beneath ground level windows.

- d. Eliminate design features that provide access to roofs or upper levels.

1.4.3 NATURAL TERRITORIAL REINFORCEMENT

Territorial reinforcement promotes social control through increased definition of the space and improved proprietary concern. An environment designed to clearly delineate space creates a sense of the owner's and or stakeholder's common vested interest in that particular space.

Natural territorial reinforcement is more likely to discourage crime because of the increased perception that the space is guarded.

- a. Display notice of security system at park access points.
- b. Place amenities such as seating elements or vending machines in common areas to attract larger numbers of desired users.
- c. Schedule activities in common areas to increase proper use, attract more people and increase the perception that these areas are being monitored.
- d. Implement territorial reinforcement measures to make the park users feel safe while making the potential offenders aware of a substantial risk of apprehension or scrutiny.

1.4.4 OTHER CPTED ELEMENTS

Maintenance and activity support aspects of CPTED were touched upon in the preceding narrative, but are often treated separately because they are not physical design elements in the built environment.

1.4.4.1 Maintenance

Maintenance is an expression of ownership of property. Deterioration indicates less control by the intended users of a site and indicates a greater tolerance of disorder. The broken windows theory is a valuable tool in

understanding the importance of maintenance in deterring crime.

Broken windows theory proponents support a zero tolerance approach to property maintenance, observing that the presence of a broken window will entice vandals to break more windows in the vicinity. The sooner broken windows are fixed, the less likely it is that such vandalism will occur in the future.

1.4.5 ADDITIONAL SECURITY FEATURES

- a. All visual overlooks must have an open unobstructed view of the park and have a 10' wide pedestrian walk for law enforcement accessibility.
- a. Decorative window guards, such as ornamental bars, screening or panels are recommended for enhanced security and should be installed per the project facility program. Window guards must not impede passive surveillance.
- b. Security cameras are recommended for all staffed parks.
- c. Cameras should be located per the project facility program with monitors located in the park office.
- d. Cameras should record at the minimum frames per second required to be court legal.
- e. Provide a minimum of one week record time for the surveillance system.
- f. Where security camera infrastructure exists to the Sheriff's Department, security camera feed should be transmitted to the sheriff's dispatch station.
- g. When gates and/or fences are proposed or required, use only openwork or transparent fencing and gates along corridors and trails to allow passive surveillance.

Section 2

Circulation

A well-connected network of park roads and paths provides an effective means to accommodate all forms of travel including; walking, bicycling, and transit. Multiple routes through a well connected park circulation system ensures that attractive walking and bicycling routes are widely and safely available. Consider the following for developing effective park circulation systems:

- a. Develop one main park entry, where a park design or theme can be established to create the park's identity and sense of arrival.
- b. Provide a highly visible and distinct park entry marker or gateway to create a sense of transition and arrival to the destination.
- c. Primary paths - provide at least one path of travel within the park design which connects all major use areas. This concrete pathway should be ten feet (10') wide preferred, and a minimum of eight feet (8') wide, for use by maintenance and service vehicles. All curves within this route should contain radii no less than ten feet (10').
- d. Secondary paths should be a minimum of six feet (6') wide.
- e. Tertiary paths consist of non-circulation routes, e.g. (Around play areas), and should be a minimum of five feet (5') wide.
- f. Provide adequate access for fire, emergency response, and maintenance vehicles in parks and open space areas.
- g. Create anticipation and visual interest by framing views and directing attention to landscape features along the pathways.
- h. Provide deliberate focal points such as a circular drop-off or plaza where the network of pedestrian paths, bicycle routes and vehicular roads meet.
- i. Locate primary and secondary paths to minimize environmental impacts on the site.
- j. Locate all park fixtures, such as security lights and trash receptacles on concrete pads outside the limit of the walkway width.
- k. Park benches and drinking fountains should be located outside the limits of the pathway width. This space should include the width of the amenity and ADA path of travel.
- c. Where a pedestrian path crosses a vehicular road, provide a pavement warning tile system and identify the path with visible signage and/or striping.
- d. Provide pedestrian entrances near existing or proposed crosswalks.
- e. Direct pedestrian entrances toward public transit centers to encourage and facilitate alternative modes of travel to the park.
- f. Pedestrian paths should provide direct access to the play area, restrooms, and sports fields.
- g. Provide textured paving where tertiary walkways intersect secondary paths of travel at restroom buildings and children's play areas, to discourage skateboarding.
- h. Pedestrian paths and bicycle routes should be clearly marked, and where possible separated from vehicular travel.

2.1 Pedestrian

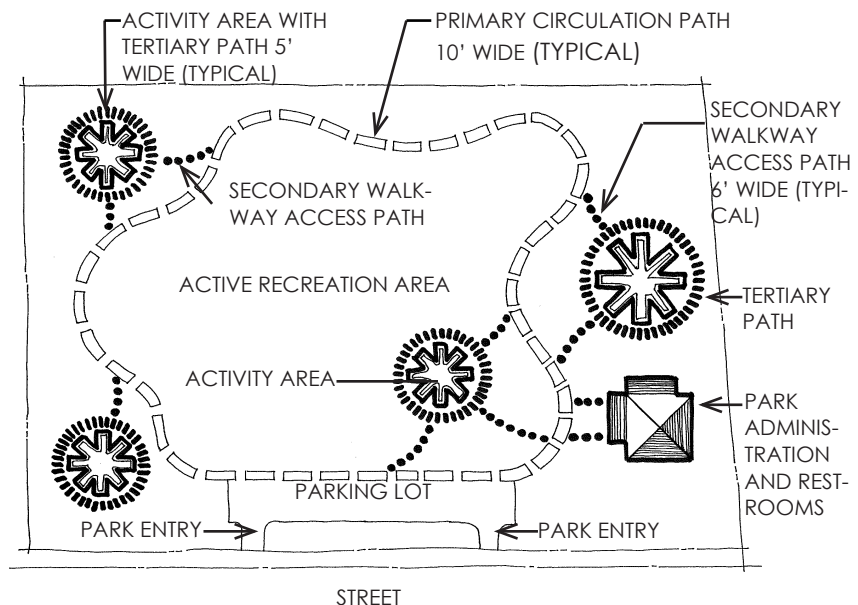


Exhibit 3: Park Circulation Hierarchy Diagram

2.2 Vehicular

- a. Locate the park vehicular entry to avoid conflicts with established rights-of-ways.
- b. Where possible provide separate entrances to the parking lot and maintenance yard.
- c. If a separate entrance to the maintenance yard and the parking lot is not feasible, locate the entrance to the maintenance yard off the parking lot.
- d. Provide maintenance vehicle access from the parking lot to the major, ten feet (10') wide concrete paths. The path should be secure from public vehicular access via removable bollards. This path must be designed to support large maintenance vehicles with load weights of up to twenty (20) tons.
- e. Where roadways are part of a park plan, they should be designed to control vehicular speeds.
 - Automobiles are usually restricted to the perimeter of the park site. This can pose problems when programmed recreation events demand equipment to be delivered by vehicles. Avoid damage to fragile vegetation and irrigation systems by providing primary, ten foot (10") wide, paths that can support vehicular use near recreation fields. See Park Circulation Hierarchy Diagram **Exhibit 3**.

2.2.1 TRAFFIC CALMING

Provide traffic calming design solutions where public vehicular roads travel through the park site. Traffic calming solutions may include but are not limited to the following traffic calming measures

- Speed humps
- Textured decorative paving
- Traffic circles or roundabouts
- Roadway narrowings

Refer to The County of Los Angeles Neighborhood Traffic Management Program Home for additional designs.³

2.3 Bicycle

To encourage and facilitate bicycle travel to the park, provide bicycle path connections from the park to the following locations:

- Public bicycle paths
- Street paths
- Bike racks/storage

2.4 Paved Surfaces -General

- a. All paving design criteria should comply with the geotechnical engineer's recommendations.
- b. All pathways and edging should be installed flush with surrounding grades with the exception of the following:
 - Finish surface elevation of planting areas should be two inches (2") lower than adjacent edging or paving, to allow for mulch.
 - Finish surface elevation of turf areas should be one inch (1") lower than adjacent edging or paving to allow for thatch build-up.
- c. Decomposed granite (D.G.) paving should be contained with a six inch (6") wide concrete mow strip on both sides of the paving, and flush with the paving surface.
- d. D.G. used for walking paths and as paving should be stabilized, unless otherwise specified in the facility program.

³ Neighborhood Traffic Management Program Home https://dpw.lacounty.gov/TNL/NTMP/Page_02.cfm

- e. D.G. used as mulch for planting areas should be unstabilized.
- f. Avoid abrupt and/or protruding edges or abrupt grade changes on all roads, walkways and bicycle paths.
- g. Approved root barriers should be used along the edge of new roadways and pathway paving within the drip line of existing trees, or within ten feet (10') of newly planted trees, and span a minimum of ten feet (10') in both directions along the pathway from the center of the tree.
- h. Design utility corridors in close proximity to roads and major walkways, to reduce future disturbance of these areas from maintenance and repair operations.

Section 3 Buildings

3.0 General

Building design strategies can contribute to conservation efforts in a number of ways. Consideration should be given to remodeling instead of replacing existing buildings wherever possible, building the minimum space necessary to satisfy the functional space requirements and designing multi-functional spaces. In addition, considerable electrical and thermal energy can be saved through building design that incorporates day lighting and other passive energy-conserving strategies appropriate to the local climatic environment.

3.0.1 CONTEXTUAL SITE CONSIDERATIONS

- a. Site all structures to recognize, preserve and protect established major vistas.

- b. All structure designs should consider the distinctive qualities and character of the surrounding architectural vernacular and incorporate those qualities into the design where appropriate.
- c. All structure designs and historical restorations should be sensitive to environmental, cultural and historical context.
- d. All design of structures and park elements should implement unifying architectural features such as repeating details, colors, and materials in these elements throughout the park. This strategy applies to a new park and existing sites.
- e. When locating a new park structure, give consideration to site variables (size, shape, topography, orientation, views, and natural features) and climatic variables (severe or temperate). See Building Orientation **Exhibit 4**.
- f. When designing a building addition, consideration should be given to the building's spatial organization and site orientation. The addition should be

planned to support functional and site sensitive expansion.

- g. The exterior design treatment should relate well to the cultural context of the neighborhood, be durable and vandal-resistant, should embody a hierarchy of elements to relate to human scale, and create an inviting environment for the users and general public.

3.0.2 SUSTAINABILITY CONSIDERATIONS

- a. The consultant should perform an analysis of all new building construction and all roof replacement projects to determine the potential benefits of using photovoltaics or solar arrays.
- b. The consultant should perform an analysis of The U.S. Green Building Council's (USGBC) "Leadership In Energy and Environmental Design" (LEED) criteria as it applies to the design and construction of a building project.
- c. All new park buildings including those less than 10,000 square feet should be designed to meet the criteria of U.S. Green Building Council LEED® Rated

Silver Certificate For New Construction.

- d. All park building remodels including buildings less than 10,000 square feet should be designed to meet the criteria of U.S. Green Building Council LEED® Rated Silver Certificate For New Construction.

3.0.3 REGULATORY CONSIDERATIONS

All building must be constructed in accordance with the County of Los Angeles Building Code, California Building Code, Americans With Disabilities Act (ADA) Standards, Los Angeles County Zoning Ordinance, the County of Los Angeles Green Building Standards Code, County Of Los Angeles Storm Water Management Standards, California Integrated Waste Management Act Of 1989, Fire Sprinkler Systems Design: Pre-Action System, National Fire Protection Association Portable Fire Extinguisher, and the South Coast Air Quality Management District's latest edition in effect at the time of plan check submittal.

3.0.4 DATA LINKS AND WI-FI ACCESS DESIGN CONSIDERATIONS

All park buildings need data links in all rooms with exceptions to restrooms, locker and dressing rooms. Data links are provided using data jacks and phone jacks. Multiple jacks are needed in each room depending on the size and use of the room and must be positioned strategically. Wi-Fi access points and the connectivity between all buildings must also be considered. This information must be provided on the Architectural Plans for all new and remodeled buildings.

Please contact the County of Los Angeles Parks and Recreation IT Help Desk Phone: 213-351-5209 for requirements and early planning assistance.

3.0.5 SIGNAGE

- a. Provide building identification signage and street address in cast metal, of sufficient size to be read from the public right of way.

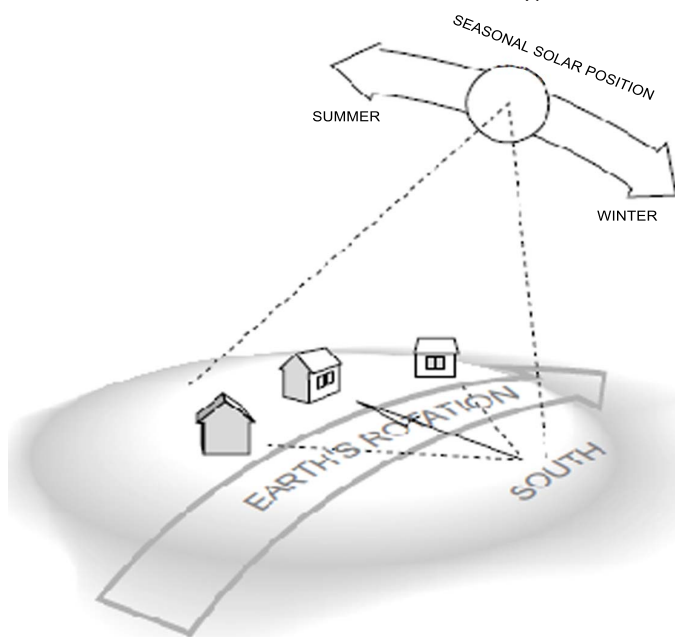


Exhibit 4: Building Orientation

The south face of a building receives three times more solar heat in winter than east or west facing sides. In summer, east and west faces receive the most solar heat.

- b. A separate sign rider must be used when the District Supervisor's name is included with the standard park or park building identification signage.
- c. Provide room identification signage at entrance to each room.
- d. Provide interior and exterior directional and way-finding signage.
- e. Provide parking lot signage, including accessible parking spaces and tow-away signs at parking lot entrances.
- f. Provide ADA signage.

- g. Provide signage as required per County of Los Angeles Title 32 FirCode.

3.1 Community Buildings

The community building is intended to support indoor organized community events, meetings and activities.

- a. Provide community buildings as directed by the project facility program.

3.1.1 SPATIAL CONSIDERATIONS

- a. The building should be visible and reasonably close to a parking lot and public street.

- b. Provide a drop off/pick-up zone near the main entrance where possible.
- c. Provide a paved special events plaza near the main entrance or the multi-purpose room.
- d. Provide ample paving around the perimeter of the building for ease of entry, to prevent pedestrian paths of travel through planted areas and prevent water infiltration into the building.
- e. The building's perimeter, both impermeable and permeable, surfaces should have a minimum two-percent (2%) slope away from all exterior walls within the limit of the first ten feet (10') for positive drainage.

3.1.2 AMENITIES

- a. Provide multi-functional activity rooms that can be used for a variety of activities throughout the day for different age groups.
- b. Each classroom should accommodate a minimum of twenty (20) people.
- c. Provide folding room dividers as directed by the project facility program.
- d. Provide resilient flooring such as linoleum, vinyl composition tile or rubber tile floor.
- e. Provide a computer training room that will accommodate up to 10 workstations.
- f. Provide a kitchen that meets all County of Los Angeles Health Department (HD) requirements and ADA requirements. Programming will be required in addition to design for hd approval.
- g. Provide two (2) offices, one (1) private office, and one (1) general office with three to four workstations. The general office will be equipped with a building-wide pager system.

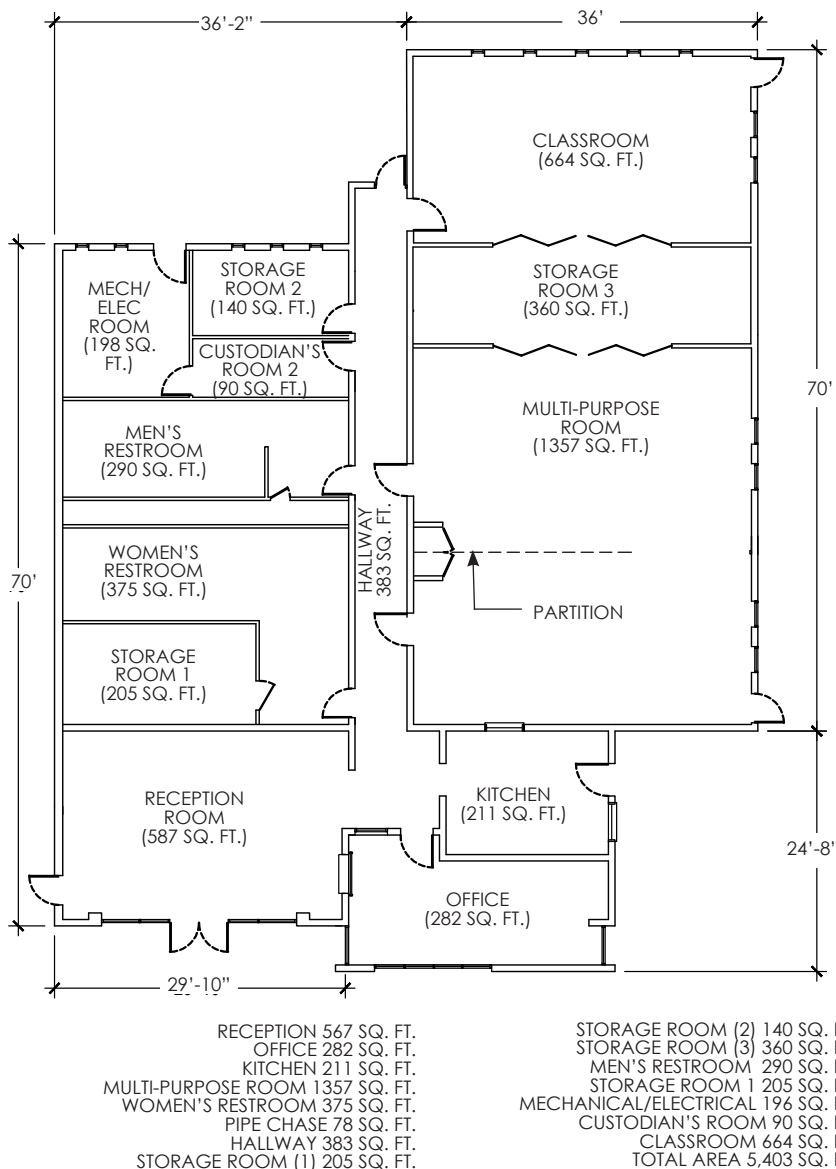


Exhibit 5: Preferred 4,788 sq. ft. Community Building Diagram

- h. Staff must have visual access to corridors from the general office. These offices should be grouped together in a common area.
- i. Provide a custodial storage room and separate, adjacent storage space.
- j. The custodial storage room is for the storage of normal day-to-day paper products, cleaners, and equipment. This room should be sized to accommodate supplies for two weeks to one-month.
- k. Provide a storage room adjacent the multi-purpose and classrooms.. This room should be sized to accommodate all tables and chairs from both adjacent rooms (approximately 15% of the total square footage of both rooms.
- l. Provide ventilation in the custodial storage room to eliminate odors from permeating into other rooms of the building.
- m. Provide a floor sink and a floor drain in the custodial storage room.
- n. Provide a storage room to contain equipment and materials used to support park programs and activities.
- o. Provide built-in heavy-duty shelving in all storage rooms.
- p. Provide restrooms inside the building as directed by the project facility program.
- q. Provide one (1) standard and one (1) ADA compliant drinking fountain, located adjacent to the community center restrooms.
- r. Provide natural lighting whenever possible.
- s. Provide HVAC system to serve as emergency heat relief in the event of a heat wave.

- t. Provide bicycle racks, trash receptacles, and drinking fountains near the building entrances.
- u. Provide directional signage from the street to the main entrance.

3.1.2.0 Security and Utilities

- a. Provide a staff administration keyless entry system.
- b. Provide data links and wifi access as directed in section 3.0.4 Data Links and WI-FI Access Design Considerations.
- c. If security cameras are installed, locate monitors in the gymnasium office.
- d. Provide sufficient electrical supply for the gymnasium to accommodate the additional circuits necessary for stage lighting.
- e. Provide vandal resistant exterior security lighting on or near the building controlled by astronomical dial time clock.
- f. Provide a minimum of four (4) electrical wall outlets and two (2) floor outlets, total of six (6) in the multi purpose room.

3.1.3 REGULATORY CONSIDERATIONS

All community building restrooms must comply with current building codes and meet current ADA requirements.

- a. Minimum required fixtures must be in compliance with the current California Code of Regulation, Plumbing Code Title 24 Part 5 Chapter 4 Item 422.0. Table 422.1 and 4-2
- b. ADA minimum required fixtures must comply with California Building Code. Title 24 Part 2 Chapters 11B-213.
- c. All kitchens must comply with the County of Los Angeles Pub-

lic Health, Environmental Health Program. Refer to Retail Plan Check Construction Guide ⁴

- d. All kitchens must comply with the most current County of Los Angeles Fire Department, County Facilities Codes and Ordinances. All gymnasium restrooms, lockers, dressing rooms and showers must comply with most current California Code of Regulations, Title 24 and County of Los Angeles Building Code.

3.2 Gymnasium Buildings

The gymnasium is intended to support indoor sports including basketball and volleyball. Additional large-venue, non-fitness events may also occur in the gymnasium. **Exhibits 6 and 7.**

- a. Provide gymnasium buildings as directed by the project facility program.

3.2.1 SPATIAL CONSIDERATIONS

The gymnasium building should be visible and reasonably close to a parking lot and public street.

- a. Provide an exterior gathering space in close proximity to the gymnasium entrance. Amenities in this space should include; shaded seating, drinking fountains, bicycle racks and information kiosks. The size of these amenities should be determined by the size and needs of the facility.
- b. Provide ample paving around the perimeter of the building for ease of entry and to prevent pedestrian paths of travel through planted areas and to prevent water infiltration into the building.

⁴ http://publichealth.lacounty.gov/eh/docs/Plan_Check/RetailConstructionGuide.pdf

- c. The building's perimeter, both impermeable and permeable, surfaces should have a minimum two-percent (2%) slope away from all exterior walls within the limit of the first ten feet (10') for positive drainage.
- d. The gymnasium office should have visible access to the adjacent gymnasium through an interior window.

3.2.2 AMENITIES

3.2.2.1 General

Provide a minimum of one (1) general office in all gymnasium buildings. The general office will be equipped with a building-wide pager system.

- a. Provide a conveniently located equipment storage space for folding chairs, nets, goals, and other sports equipment. The size of the storage space should be dependent on the size and requirements of the facility.
- b. Provide an additional exercise/auxiliary room adjacent to the gymnasium. This room should be a minimum 450 square feet.
- c. Provide at least one double-door building entry for the delivery of equipment.
- d. Provide natural ventilation and lighting whenever possible.
- e. Provide portable room separators as directed by the project facility program.
- f. Provide folding room dividers as directed by the project facility program.
- g. Provide mat hoists as directed by the project facility program.
- h. Provide a roll out protective gymnasium floor cover for use during special events.

3.2.2.2 ADA

Provide ADA accessible seating adjacent to the bleachers.

- a. Provide companion seating, one (1) for each ADA seat.
- b. Provide one (1) standard and one (1) ADA compliant drinking fountain, located adjacent to the gymnasium restrooms.

3.2.2.3 Basketball Court

Provide a minimum of one standard size basketball court.

- a. Provide ample spectator circulation space around the perimeter of the basketball court to prevent spectator interference during sporting activities.
- b. Provide telescoping bleachers (on both sides of the basketball court) to maximize the flexibility of the space and to allow sideline space for gymnasium events.

3.2.2.4 Stage

Provide a stage and changing rooms if directed by the project facility program.

- a. The stage size must accommodate a variety of activities. The minimum size for a stage is sixteen feet (16') by sixteen feet (16'). This size stage can accommodate a five (5)-piece musical band. The minimum size of the off-stage waiting area should be a minimum of eight feet (8') in depth. The width of the stage should be approximately one third the total width of the gymnasium.
- b. Where practical, provide led lighting for all stage lighting.
- c. Provide a minimum of two (2) ten feet (10') by twelve feet (12') stage changing rooms, one (1) for women and one (1) for men.

3.2.2.5 Restrooms and Showers

Provide restrooms, showers, and locker rooms as directed by the project facility program.

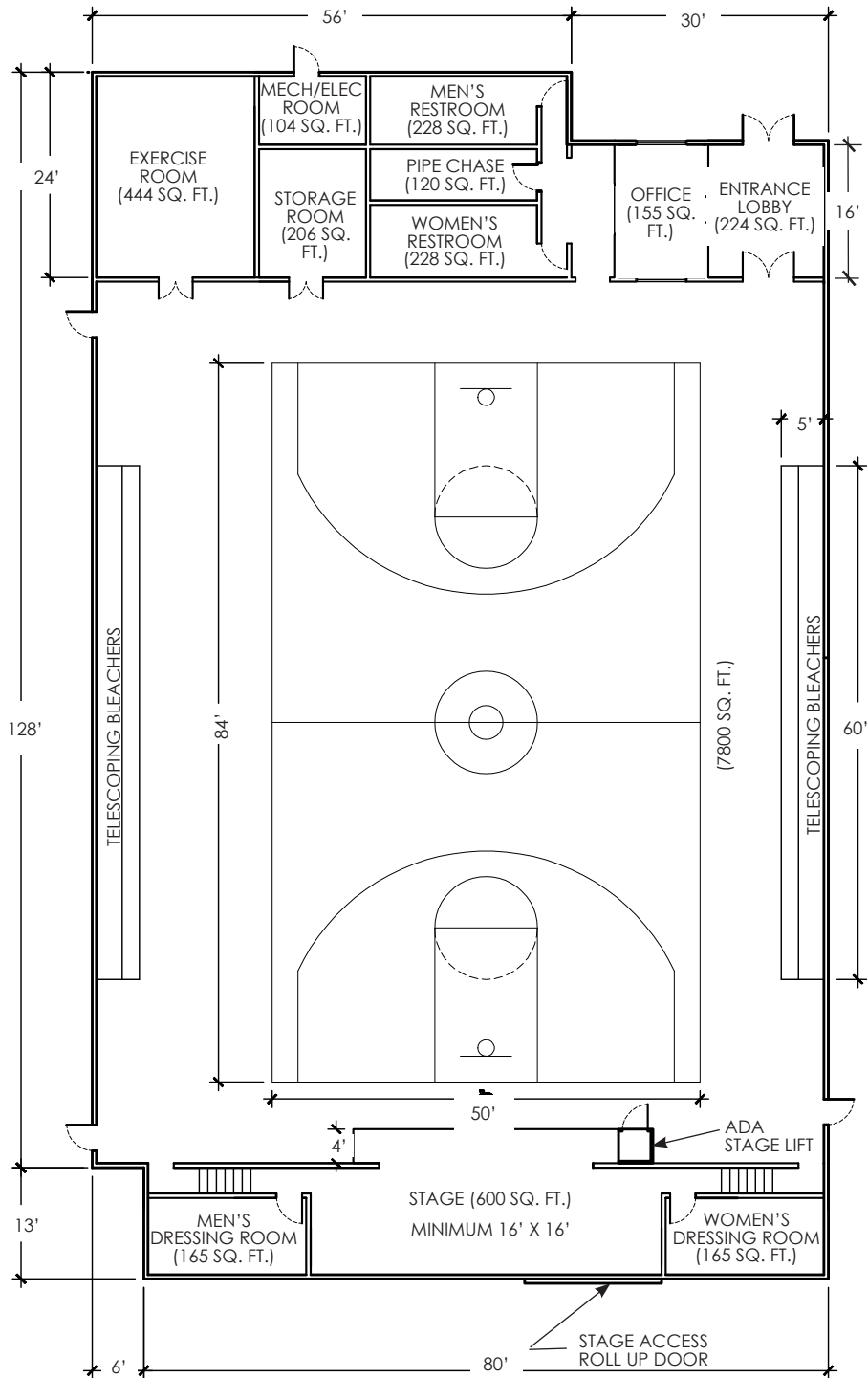
- a. Provide a controlled and secured entrance to all showers and locker rooms.
- b. Provide privacy walls between each shower.

3.2.2.6 Security and Utilities

- a. Provide a staff administration keyless entry system.
- b. Provide data links and wifi access as directed in section 3.0.4 Data Links and WI-FI Access Design Considerations.
- c. If security cameras are installed, locate monitors in the gymnasium office.
- d. Provide sufficient electrical supply for the gymnasium to accommodate the additional circuits necessary for stage lighting.
- e. Provide vandal resistant exterior security lighting on or near the building controlled by astronomical dial time clock.
- f. Provide an HVAC system to serve as emergency heat relief in the event of a heat wave.
- g. Provide vandalism protection for all heating and cooling vents inside of the gymnasium space.
- h. Provide a minimum of four (4) electrical wall outlets and two (2) floor outlets, total of six (6) in the gymnasium

3.2.3 REGULATORY CONSIDERATIONS

All gymnasium restrooms, locker rooms, dressing rooms and showers must comply with current building codes and meet current ADA requirements.

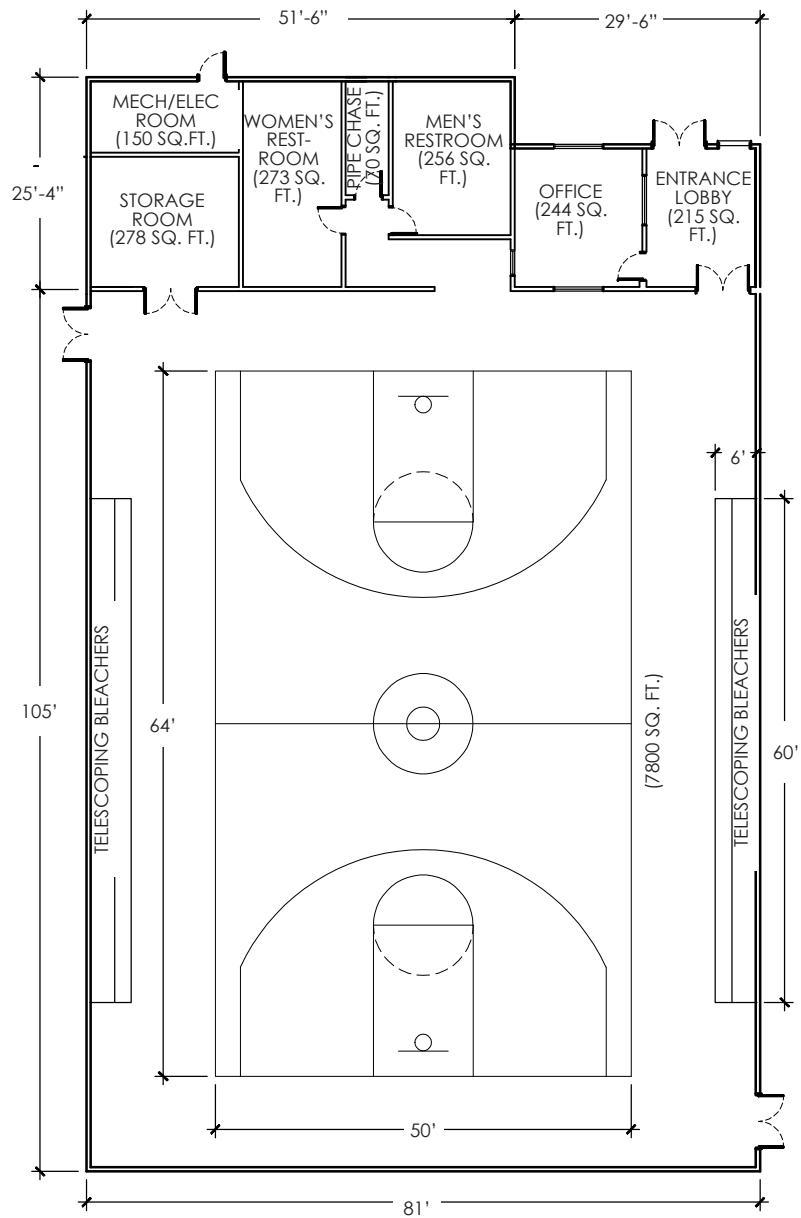


REGULATION HIGH SCHOOL BASKETBALL COURT 7800 SQ. FT.
CUSTODIAN'S ROOM/PIPE CHASE 120 SQ. FT.
WOMEN'S RESTROOM 228 SQ. FT.
MEN'S RESTROOM 228 SQ. FT.

STORAGE ROOM 208 SQ. FT.
MECHANICAL/ELECTRICAL 104 SQ. FT.
ENTRANCE/LOBBY 224 SQ. FT.
OFFICE 155 SQ. FT.
EXERCISE ROOM 444 SQ. FT.

WOMEN'S DRESSING ROOM 165 SQ. FT.
MEN'S DRESSING ROOM 165 SQ. FT.
STAGE 600 SQ. FT.
HALLWAY 100 SQ. FT.
TOTAL AREA 10,541 SQ. FT.

Exhibit 6: Preferred 10,541 sq. ft. Gymnasium Building Layout Diagram - Large space includes Office, Stage and Exercise Room - Option 1



REGULATION HIGH SCHOOL BASKETBALL COURT 7800 SQ. FT.
 CUSTODIAN'S ROOM/PIPE CHASE 70 SQ. FT.
 WOMEN'S RESTROOM 273 SQ. FT.

MEN'S RESTROOM 256 SQ. FT.
 STORAGE ROOMS 278 SQ. FT.
 MECHANICAL/ELECTRICAL 150 SQ. FT.

OFFICE 244 SQ. FT.
 ENTRANCE/LOBBY 215 SQ. FT.
 HALLWAY 110 SQ. FT.
 TOTAL AREA 9,393 SQ. FT.

Exhibit 7: Preferred 9,393 sq. ft. Gymnasium Building Layout Diagram - Small Space includes Office - Option 2

- a. Minimum required fixtures must be in compliance with The current California Code of Regulation, Plumbing Code Title 24 Part 5 Chapter 4 Item 422.0. Table 422.1 and 4-2.
- b. ADA minimum required fixtures must comply with California Building Code. Title 24 Part 2 Chapters 11B-213.
- c. Provide an ADA ramp or stage lift, the lift may be fixed in place or portable (provide storage space for portable lift). Portable lifts must be available at all times and must comply with current building codes and meet current ADA requirements.

3.3 Pool Buildings

Pool buildings are always located adjacent to the public swimming pools typically found in neighborhood parks, community parks, community regional parks and regional parks. **Exhibits 8**

- a. Provide pool buildings as directed by the project facility program.

3.3.1 SPATIAL CONSIDERATIONS

- a. Restrooms should be in close proximity to pool.
- b. Provide a passenger drop off and pick-up zone adjacent to pool building entry.
- c. Provide a supply and materials delivery access, near the pool building where possible.
- d. Provide ample paving around the perimeter of the building for ease of entry, to prevent pedestrians walking through planted areas and prevent water infiltration into the building.
- e. The building's perimeter, both impermeable and permeable, surfaces should have a minimum two-percent (2%) slope

away from all exterior walls within the limit of the first ten feet (10') for positive drainage.

- f. Location of the pool building entrance should be such that the patrons must enter the lobby and pass the check-in/ bag check area to enter the pool.
- g. The layout of the pool building should be such that the patrons on leaving the dressing room, pass the toilets, then the showers on route to the swimming pool.
- h. Provide a viewing observation window from the staff office to the pool. The design should provide as much visibility as possible.
- i. Provide the primary check-in window between the lobby and check room.
- j. Provide a secondary check-in windows between the check-in/ bag check room and each of the men's and women's dressing rooms/restrooms.

3.3.2 AMENITIES

The pool building size should be approximately 9,500 square feet minimum and one (1) story above grade; and should include the following rooms:

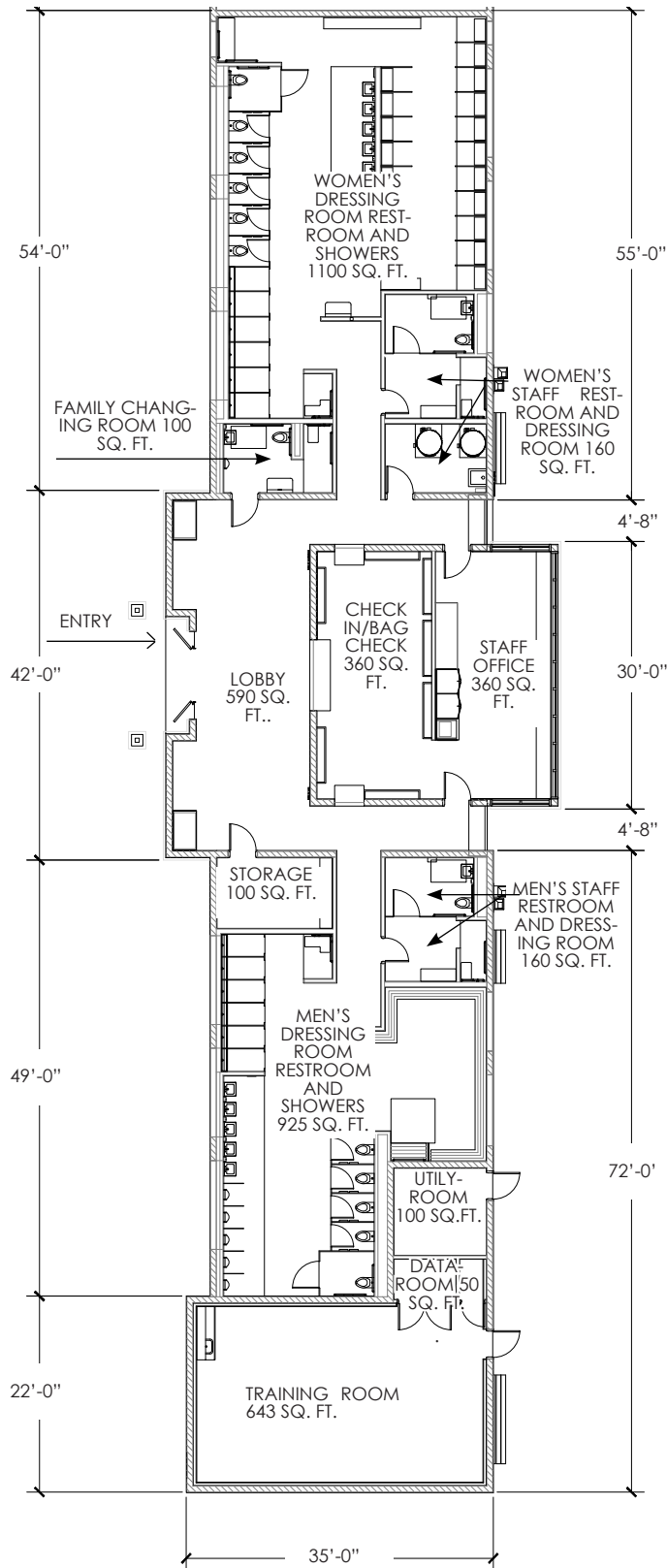
- a. Lobby
- b. Check-in and bag check
- c. Staff office
- d. ADA compliant family changing room.
- e. Custodian's closet/utility room (with mopsink).
- f. Women's staff restroom which includes lavatory and toilet
- g. Women's staff dressing room which includes shower and two (2) tiered lockers.
- h. Men's staff restroom which includes lavatory and toilet
- i. Men's staff dressing room which includes shower and two (2) tiered lockers.
- j. Women's dressing room
- k. Women's restroom/showers
- l. Men's dressing room
- m. Men's restroom/showers
- n. General storage room sized as directed by the field agency.
- o. Mechanical room and a chlorine room.
- p. Acid Room
- q. May also include a training room, sized as directed by the field agency.



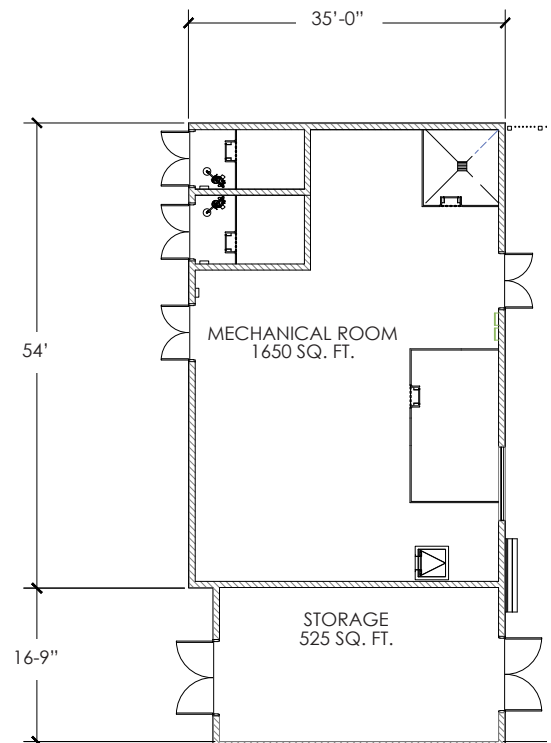
3.3.2.1 General

Special consideration should also be given to providing materials and finishes that are highly durable, are easy to maintain, resist deterioration as a result of constant and prolonged exposure to water and chlorine, are vandal and graffiti resistant, and will be resistant to the constant wear and tear of use by the general public for a 20-30 year expected life.

- The architectural expression of the lobby space may be open to structure, provided that there are no exposed ducts, conduits, fire sprinkler lines or other impinging devices or appliances.
- The pool building's exterior and interior walls should be constructed of architectural concrete block, with natural or painted surfaces, and coated with anti-graffiti finish or as directed by the Agency.



TO POOL



WOMEN'S DRESSING ROOM RESTROOM AND SHOWERS 1100 SQ. FT.
 MEN'S DRESSING ROOM RESTROOM AND SHOWERS 925 SQ. FT.
 WOMEN'S STAFF RESTROOM AND DRESSING ROOM 160 SQ. FT.
 MEN'S STAFF RESTROOM AND DRESSING ROOM 160 SQ. FT.
 CHECK IN/BAG CHECK 360 SQ. FT.

FAMILY CHANGING ROOM 100 SQ. FT.
 LOBBY 590 SQ. FT.
 STORAGE 100 SQ. FT.
 STAFF OFFICE 360 SQ. FT.
 CUSTODIAN'S UTILITY ROOM 100 SQ. FT.
 DATA ROOM 50 SQ. FT.
 TRAINING ROOM 643 SQ. FT.
 MECHANICAL ROOM 1650 SQ. FT.
 STORAGE 525 SQ. FT.
 TOTAL AREA 8,823 SQ. FT.

Exhibit 8: Pool Building Layout Diagram and Mechanical Room

- c. Concrete structural slab should be installed per structural design and specifications.
- d. Roofs should relate well to the architecture of the surrounding park buildings (e.g. Gymnasium, community building, senior center).
- e. Provide ventilation/privacy grills at each window except at viewing window from the staff office to the pool area.
- f. All public and staff-occupied spaces are to receive a hard lid ceiling.
- g. Provide solar tubes and skylights for natural ventilation and lighting, wherever possible.
- h. Provide bird deterrent for skylights
- i. If a training room is provided the entrance to this room may be from the pool side (only) or from pool side and interior of building if design allows.
- at least five (5) inches with a coved base.
- b. All floor surfaces should slope at least 1/4 inch per foot to drains.
- c. Different types of flooring can be used for the various interior areas such as such as portland cement concrete, for common areas, ceramic tile for showers and restroom facilities or other approved material,
- d. Junctions between walls and floors should be covered.
- e. Walls and partitions should be of water resistant, smooth and impervious materials free from cracks or open joints.
- f. All interior floor finishes must be both water and slip resistant, all interior wall finishes must be water and graffiti resistant

3.3.2.5 Restrooms and Showers

- a. All fixtures including; sinks, toilets, handrails and surface hand dryers should be vandal resistant.
- b. All hardware should be stainless steel and vandal resistant.
- c. All partitions should be a half inch (1/2") solid phenolic core panels.
- d. Pilasters should be three quarters of an inch (3/4") solid phenolic.
- e. Partition panels should terminate twelve inches (12") above finish floor.
- f. Constructed partition walls may be tiled and placed on a minimum five inch (5") raised coved base.
- g. Doors at stalls should be three quarters of an inch (3/4") solid phenolic with self-closing stainless steel piano hinges hung twelve inches (12") above finish floor.
- h. Doors should be ceiling, floor and wall mounted.

- i. Lockers should be set either on solid masonry or concrete bases at least six inches (6") high or on legs with bottom of locker at least ten inches (10") above the floor.
- j. Lockers should be constructed to allow for adequate ventilation.
- k. Each room must have adequate drains for swift positive drainage.

3.3.2.6 Security and Utilities

- a. No exposed conduits, plumbing lines, vents or ducts are to be found in any of the public or staff-occupied space.
- b. Provide vandal resistant exterior security lighting on or near the building controlled by astronomical dial time clock.
- c. All ceiling mounted lighting should be recessed where applicable.
- d. Provide interior electrical overhead lighting to be controlled by switch located in staff office.
- e. Provide data links and wifi access as directed in section 3.0.4 Data Links and WI-FI Access Design Considerations.

3.3.3 REGULATORY CONSIDERATIONS

All pool building restrooms, locker rooms, dressing rooms and showers must comply with current building codes and meet current ADA requirements.

- a. Minimum required fixtures must be in compliance with the current California Code of Regulation, Plumbing Code Title 24 Part 5 Chapter 4 Item 422.0. Table 422.1 and 4-2.
- b. ADA minimum required fixtures must comply with California Building Code. Title 24 Part 2 Chapters 11B-213.

3.3.2.2 ADA

- a. Provide two (2) ADA compliant drinking fountains located as specified by the field agency.
- b. To minimize heat accumulation during summer peak hours special consideration should be given to the placement, finish materials and solar orientation.

3.3.2.3 Furnishings

The building and site design should include waiting/seating areas, benches, bike racks, trash receptacles, recycling bins and should be aesthetically compatible with the theme of the pool building.

3.3.2.4 Materials and Surfaces

Floors of the bathhouse should be of a hard, nonabsorbent smooth-finish material with slip-resistant surface, impervious to moisture, and easy to clean

- a. The floor material should extend upward onto the wall

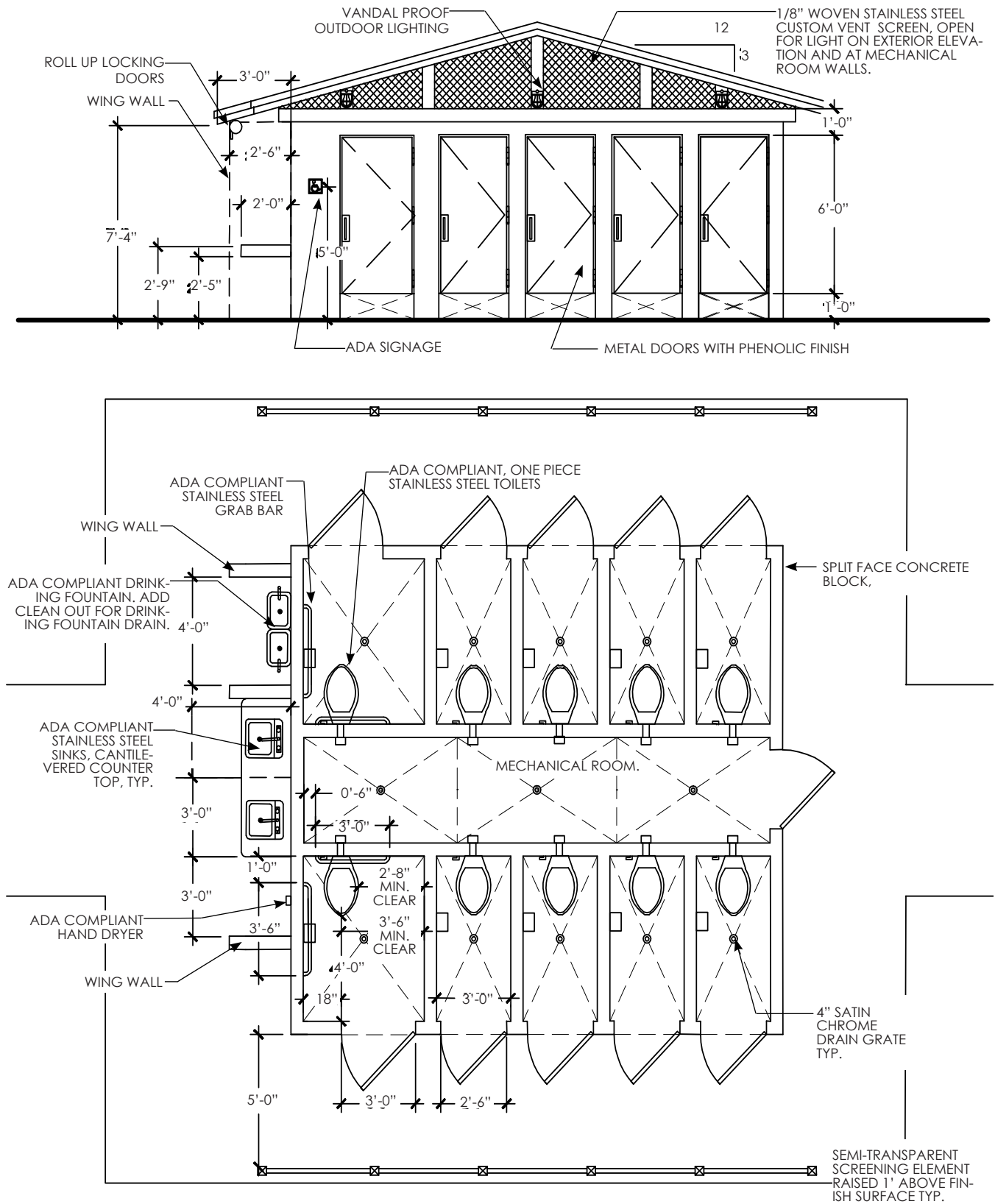


Exhibit 9: Preferred Restroom Building Layout Diagram (minimum 2 stalls)

3.4 Restroom Buildings

Restroom buildings are typically located in local parks, regional parks, and at primary trail heads. **Exhibits 9**

- a. Provide restroom buildings as directed by the project facility program.

3.4.1 SPATIAL CONSIDERATIONS

- a. Restroom buildings should be visible and in close proximity to a parking lot and public street.
- b. The restroom building should be visible and located within a 100' radius of children's play areas.
- c. The restroom building should be visible and located within a 150' radius of active recreation fields.
- d. The restroom building's perimeter, both impermeable and permeable, surfaces should have a minimum two-percent (2%) slope away from all exterior walls within the limit of the first ten feet (10') for positive drainage.

3.4.2 AMENITIES

3.4.2.1 General

Provide ample paving around the building perimeter for ease of accessibility and entry.

- a. The restroom building's exterior and interior walls should be constructed of split-faced or precision block, with natural or painted surfaces, and may be coated with anti-graffiti finish.
- b. Roofs should be constructed of steel seam metal.
- c. Concrete structural slab should be installed per structural design and specifications.
- d. Provide floor drains in each stall.
- e. All fixtures, including sinks, toilets, handrails and surface hand dryers should be stainless steel and vandal resistant.

- f. All hand dryers should be electric dryers.
- g. Doors should be three quarters of an inch ($\frac{3}{4}$ ") solid phenolic with self-closing stainless steel hinges hung twelve inches (12") above finish floor.

3.4.2.1 ADA

One standard and one Americans with Disabilities Act (ADA) compliant drinking fountain should be located outside of each restroom building.

- a. Provide a minimum of two standard and one ADA compliant hand washing sinks outside the restroom building.

3.4.2.2 Security and Utilities

Ventilation and lighting should be natural, wherever possible.

- a. Provide interior electrical overhead lighting with timers in all restroom buildings.
- b. Provide vandal resistant exterior security lighting on or near the building controlled by astronomical dial time clock.
- c. Plumbing – at water service should must comply with current California Building and Plumbing Codes.

3.4.3 REGULATORY CONSIDERATIONS

All restrooms buildings, must comply with current building codes and meet current ADA requirements.

- a. Minimum required fixtures must be in compliance with the current California Code of Regulation, Plumbing Code Title 24 Part 5 Chapter 4 Item 422.0. Table 422.1 and 4-2.
- b. ADA minimum required fixtures must comply with California Building Code. Title 24 Part 2 Chapters 11B-213.

3.5 Sports Field Concession Stand

Provide sports field concession stands as directed by the project facility program. **Exhibits 10**

3.5.1 SPATIAL CONSIDERATIONS

Locate the concession stand in close proximity to the ball field spectator area.

- a. Provide a vehicular access pathway to the building.
- b. The concession stand should be reasonably close to a trash enclosure.

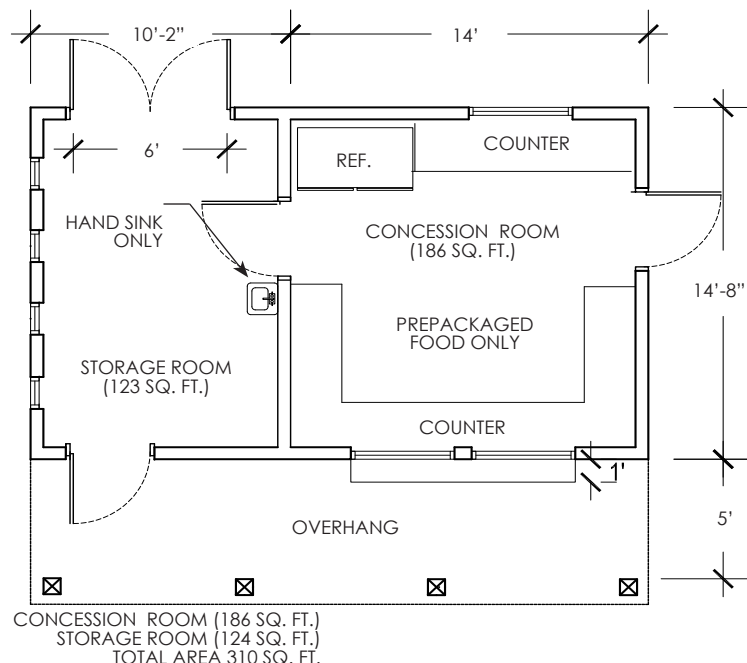


Exhibit 10: Preferred 310 sq. ft. Sports Field Concession Building Diagram

- c. Provide ample paving around the building perimeter for ease of entry and pedestrian accessibility.
- d. The building's perimeter, both impermeable and permeable, surfaces should have a minimum two-percent (2%) slope away from all exterior walls within the limit of the first ten feet (10') for positive drainage.

3.5.2 AMENITIES

3.5.2.1 General

- a. Provide kitchen facilities for warming pre-packaged food only.
- b. Provide ample in-unit storage space within the building.
- c. Include a double-door entry for delivery of products and equipment.
- d. Provide roll-up window(s) for serving access.

3.5.2.2 Floor Surface

Install resilient flooring such as linoleum or vinyl composition tile.

3.5.2.3 Security and Utilities

- a. Ventilation and lighting should be natural whenever possible.
- b. Provide a HVAC system.
- c. Provide a staff administration keyless entry system.
- d. Provide vandal resistant exterior security lighting on or near the building controlled by astronomical dial time clock.
- e. Provide data links and wifi access as directed in section 3.0.4 Data Links and Wi-Fi Access Design Considerations.

3.5.3 REGULATORY CONSIDERATIONS

- a. All kitchen amenities must comply with the County Of Los Angeles Public Health department requirements.
- b. The concession building must comply with current building codes and meet all ADA requirements.

3.6 Maintenance Buildings / Yards

Maintenance buildings and yards support a broad spectrum of recreational facilities. Provide a maintenance yard as directed by the project facility program. **Exhibits 11 and 12**

3.6.1 SPATIAL CONSIDERATIONS

Where possible provide separate entrances to the maintenance yard and the parking lot.

- a. If a separate entrance to the maintenance yard and the parking lot is not feasible, locate the entrance to the maintenance yard off the parking lot.

- b. Provide screening between the maintenance yard and the park.
- c. The maintenance office should have visible access to the adjacent yard.
- d. Provide space in the maintenance building to accommodate the storage of maintenance vehicle(s) as directed by the project facility program.
- e. Provide space in the maintenance building to accommodate the storage of maintenance tools, supplies and materials, as directed by the project facility program.
- f. Provide space in the maintenance yard to accommodate the storage of building and maintenance materials, as directed by the project facility program.
- g. Provide secured gates and fencing around the perimeter of all maintenance yards.

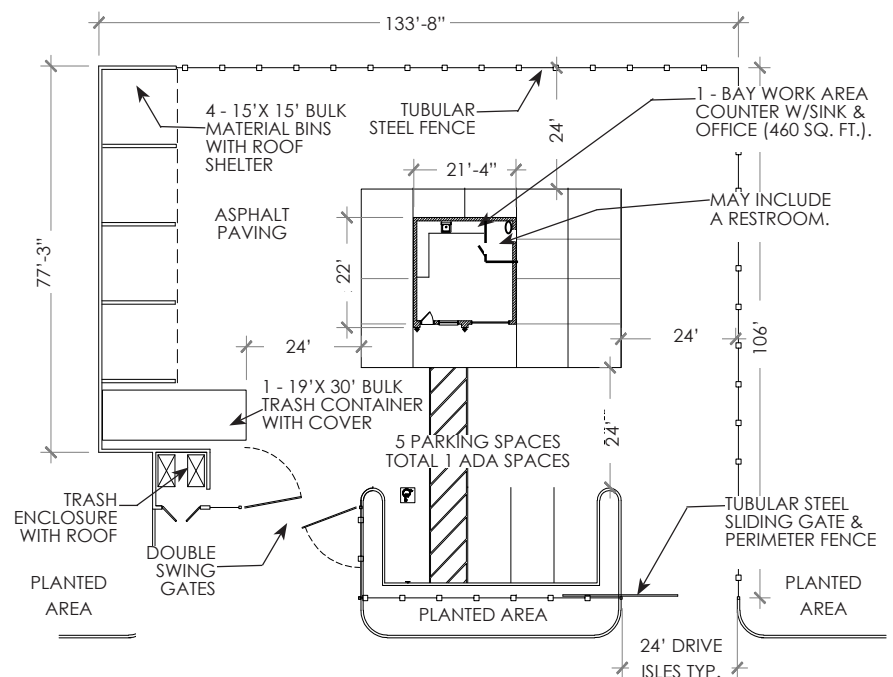


Exhibit 11: Preferred Small Maintenance Building and Yards Layout Diagram -

3.5.2.3 Security and Utilities

3.6.3 REGULATORY CONSIDERATIONS

- h. Provide a minimum of one (1) ADA accessible restroom in each maintenance building.
- i. Provide a rest/eating area and a kitchenette space (microwave and refrigerator only) in each maintenance building.
- j. Provide roll-up doors for entry into maintenance building.

- a. Ventilation and lighting should be natural whenever possible.
- b. Provide a HVAC system.
- c. Provide a staff administration keyless entry system.
- d. Provide vandal resistant exterior security lighting on or near the building controlled by astronomical dial time clock.
- e. Provide data links and wifi access as directed in section 3.0.4 Data Links and WI-FI Access Design Considerations.

- a. All restrooms must comply with current building codes and meet current ADA requirements.
- b. The restroom fixture count must be in compliance with the State of California Building Code Title 24 Part 5 Chapter 4 Item 421.0.

39'-4"

96'

26'-5"

29'-4"

POTTED PLANT STORAGE

6 - 15'X 15' BULK MATERIAL BINS WITH ROOF

13 - 8'X 20' STORAGE SHELTER CONTAINERS TYP. WITH COVER.

1 - 19'X 30' BULK TRASH CONTAINER WITH ROOF

2 - BAY WORK AREA COUNTER W/SINK OFFICE AND TOILET. (675 SQ. FT.)

32'-9"

21'-4"

CONCRETE WALKWAY

24'-0"

68'-0"

112'-6"

24'-0"

ASPHALT PAVING

20 PARKING SPACES TOTAL 2 ADA SPACES

24'-0"

24'-0"

9'-0"

21'-8"

TRASH ENCLOSURE WITH ROOF

DOUBLE SWING GATES

24' DRIVE ISLES TYP.

PLANTED AREA

PLANTED AREA

PLANTED AREA

TUBULAR STEEL SLIDING GATE & PERIMETER FENCE

183'-8"

Exhibit 12: Preferred Large Maintenance Building and Yards Layout Diagram -

Section 4

Parking Lots

The parking lot is the first and the last element of a park facility to be viewed by many visitors. It is the gateway through which most visitors pass. This first impression is very important in establishing the overall feeling and atmosphere conveyed to the user.

4.1 SPATIAL CONSIDERATIONS

- Provide adequate parking at each park location to minimize parking on residential and arterial streets.
- Provide parking lots that service and support park facilities. These parking lots should not bisect or segment the park site.
- Provide overflow parking for special events as directed by the project facility program.
- Parking lots must remain visually unobstructed and highly visible at all times.
- Locate parking lots in close proximity to major park activity areas.
- Parking lots should not have a slope exceeding five (5) percent, (where possible) except for access ramps or driveways which should not exceed a slope of twenty (20) percent.
- The parking stall and aisle dimensions and angles illustrated in **Table 1**, should be utilized in parking lot design layout.

4.2 AMENITIES

4.2.1 General

- Provide a one foot (1') wide concrete "step out" at all landscaped areas adjacent to parking stalls.
- Provide a barrier gate at park vehicular entries.

- Provide access barriers at parking lot perimeters. Perimeter barrier material is typically but not limited to a six inch (6") high concrete curb.
- Provide maintenance vehicle access to the primary ten foot (10') wide park circulation system off the parking lot. The entrance from the parking lot should be protected by locking removable bollards.
- When possible use cool and permeable pavements to mitigate the heat island effect and stormwater run-off. Refer to the parks standards for suggested materials and manufacturers.

4.2.2 Wheel Stops

- Provide wheel stops at all zero curb height and ADA ramps to prevent parked vehicles from encroaching onto adjacent walkways or adjacent landscaped areas as illustrated in **Exhibit 13**.
- Ensure that wheel stops and curb heights do not impact vehicular clearance.

- Where no wheel stops have been provided and there is an encroachment of a car over the required width of an adjacent walkway, an additional two feet (2') must be added to the width of the walkway as illustrated in **Exhibit 14**.

4.2.3 Plant Material

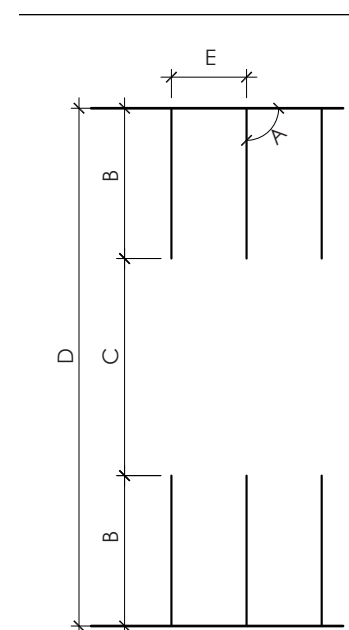
- All plant material in front of a parking stall with a six inch (6") curb adjacent planted area, must be low groundcover with a maximum height of six inches (6") as illustrated in **Exhibit 15**.
- Provide vegetated screening or visual barriers to prevent vehicle headlights from shining into residential areas.
- In order to provide shade to vehicles and lower the heat island effect in parking lots, provide one (1) 24 inch (24") box tree per four (4) parking stalls.
- The parking lot tree canopy should provide at least fifty percent (50%) shade coverage in the open parking areas within fifteen (15) years.

Table 1: Minimum Dimensions for Parking Stalls

A Angle (degrees)	90	60	45
B Stall	18'-0"	20'-1"	19'-1"
C Aisle	26'-0"***	20'-0"***	14'-0"***
D Overall Width	62'-0"	60'-2"	52'-2"
E Curb Length	9'-0"	10'-5"	12'-9"

* One way traffic

** Two way traffic



- e. Provide trees, shrubs, and ground cover at suitable intervals in order to break up the continuity of the parking area.
- f. Landscape plants should not block the view of motorists and pedestrians.
- g. Provide five foot (5') diamond shaped curb height tree planters, excluding the width of the curb, in double loaded parking stall areas for shade trees as illustrated in **Exhibit 16**.
- h. Provide landscaped islands with a minimum width of five (5) feet, and a one foot (1') step-out excluding the curb width, at each end of the parking lot lanes shade trees as illustrated in **Exhibit 16**.

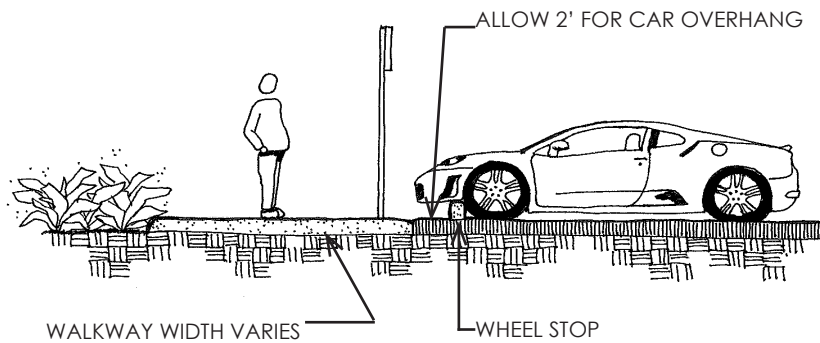


Exhibit 13: Parking Lot Curb - 0" Curb Face at ADA Parking Stalls

4.2.4 Trash Enclosure

- a. If the parking lot is designed to include a trash bin enclosure, the enclosure opening should be oriented so that front-load disposal equipment can head in directly to the enclosure opening to access the container without removing it from the enclosure, as illustrated **Exhibit 18**:
- b. The area in front of all enclosure types should be kept clear of obstructions; should not be utilized for parking; and should be painted, striped, and marked "no parking."
- c. Trash enclosures should be located so that front-load equipment can enter and exit the parking lot using through driveways, to avoid backing maneuvers. If through driveways are not practical, sufficient maneuvering area should be provided to allow collection equipment to turn around. Enclosures should not be placed in areas where collection equipment will have to back into the street to exit the parking lot.

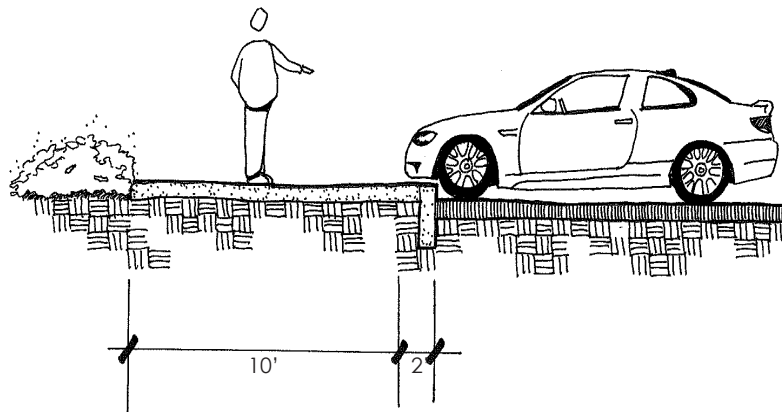


Exhibit 14: Parking Lot Curb - 6" Curb Adjacent Primary Pedestrian Walk

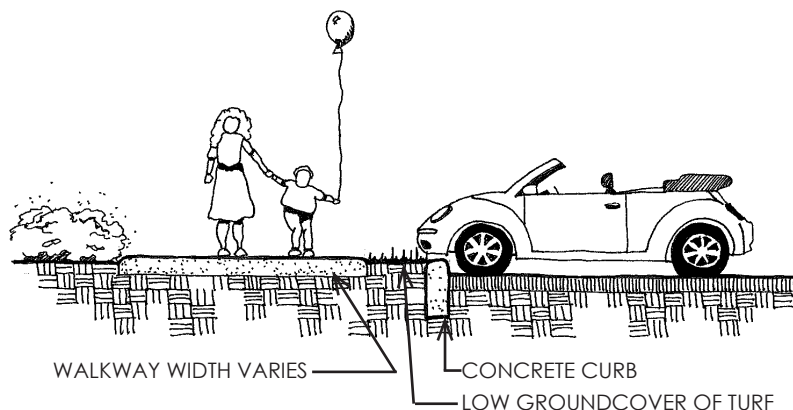


Exhibit 15: Parking Lot Curb - 6" Curb Adjacent Planted Area

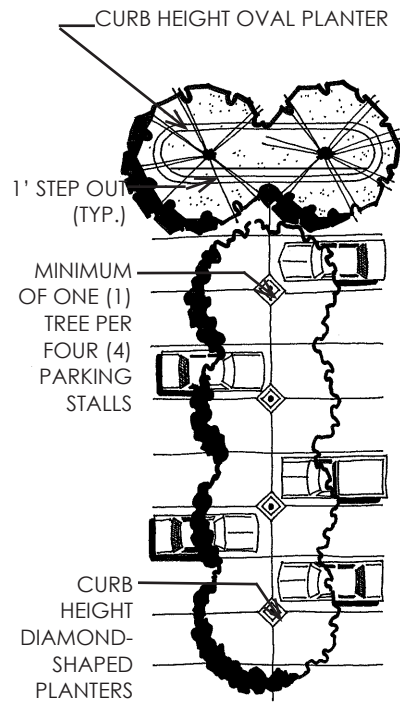


Exhibit 16: Shade Tree Layout in Parking Lots

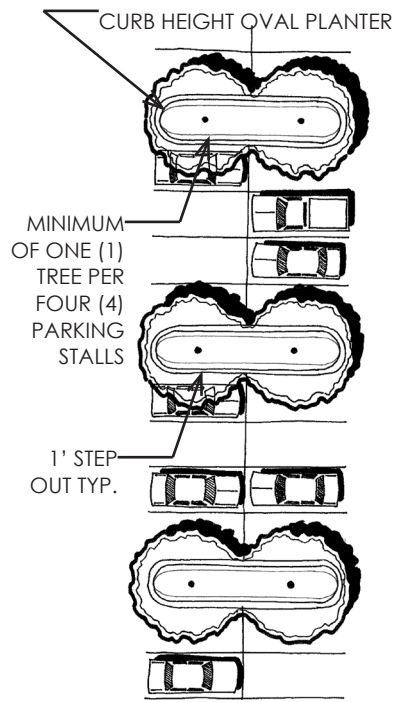


Exhibit 17: Shade Tree Layout in Parking Lots (Alternate)

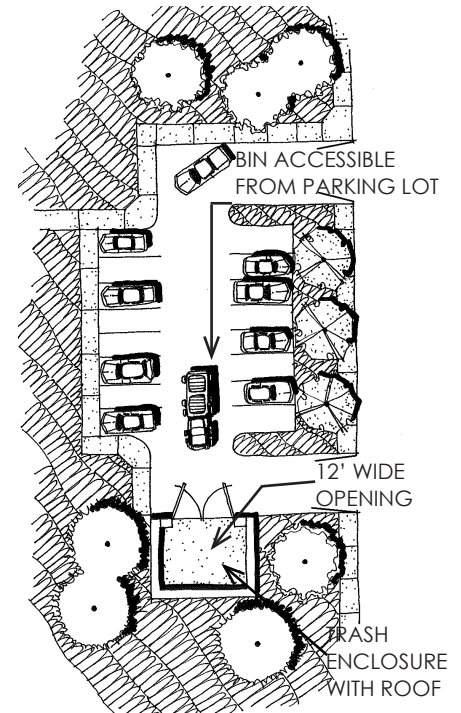


Exhibit 18: Parking Lot Design with Trash Bin Enclosure

4.2.5 Drainage

Refer to the stormwater management section for parking lot grading and drainage.

4.2.6 Additional Parking

- Additional parking over and above the County of Los Angeles Code Chapter 22.52, General Regulations, Part 11, Vehicle Parking Space, should be provided for parks with sports fields and courts as shown in **Table 2**.⁶
- Provide additional parking over and above the County of Los Angeles Code Title 22 Chapter 22.52, General Regulations, Part 11, Vehicle Parking Space, as directed by the project facility program.
- Provide preferred parking stalls and signage for low-emission & fuel efficient vehicles at high use park sites such as community buildings, nature centers, arboretum and botanical gardens parking lots.

⁶ Carpenter, Handbook of Landscape Architectural Construction (1976)

4.3 REGULATORY CONSIDERATIONS

- All parking lots must include security lighting, meeting current California Code of Regulations and all local Building Codes and Standards.
- Provide two points of ingress/egress access drives, a turnaround, or a "hammer head" for all size vehicles.
- Parking Lots must comply with the most current ADA standards and guidelines.
- Provide ADA compliant parking stalls and signage per the current state and federal requirements. The parking area must be clearly marked to delineate the ADA parking stalls.

- Parking lot design must comply with the County of Los Angeles Code Chapter 22.52, General Regulations, Part 11, Vehicle Parking Space, unless otherwise specified in the Park Design Guidelines.
- The number of parking spaces must comply with the County of Los Angeles Department of Regional Planning code for all facilities unless otherwise specified in the Park Design Guidelines. Provide additional parking as noted in **Table 2**.
- Park design must comply with the County of Los Angeles Code Title 22, Chapter 15.52 Crosswalks and Bicycle Lanes.

Table 2: Minimum Additional Parking For Sports Fields and Courts	
SPORT	MINIMUM PARKING SPACES
Softball	15 spaces / field
Baseball	20 spaces / field
Soccer, football, lacrosse	16 spaces / field
Basketball	6 spaces / field
Tennis	2 spaces / field
Volleyball	6 spaces / field

Section 5

Active Recreational Facilities

To promote a healthy active lifestyles the inclusion of non-traditional sports activities and creative recreation amenities are included in a park design. These amenities have emerged as popular park amenities.

The location and orientation of recreation fields should recognize and be sensitive to the established surrounding conditions. Care must be taken to address potential conflicts with adjacent passive use areas including children's' play areas.

The size and shape of a site can have a major influence on the types of recreation uses it can support. For example, a large, regularly shaped site may be well suited for a multiple athletic field complex (e.g., soccer or baseball) while a smaller, irregularly shaped site may not be able to support this level of development and may be better used for smaller athletic fields or courts (e.g., basketball or tennis courts). In addition to the area requirements for the selected recreational activity, additional space may be required for supporting facilities such as, parking lots, concession stands, spectator areas, maintenance yard, and storage buildings.

At multiple athletic field complexes, additional space may also be needed for buffer zones and drainage features between fields.

Table 3 provides the standard field dimensions and minimum acreage required to be used in designing county parks, unless otherwise directed by the project facility program. The area required for most playing fields ranges from approximately 0.05 acres (a volleyball court) to three acres (an adult level baseball field). However, recreational facilities consist of more than just a playing field. When estimating the area needs for a recreation facility, the size of the fields and spatial requirements for supporting features or areas need to be considered.

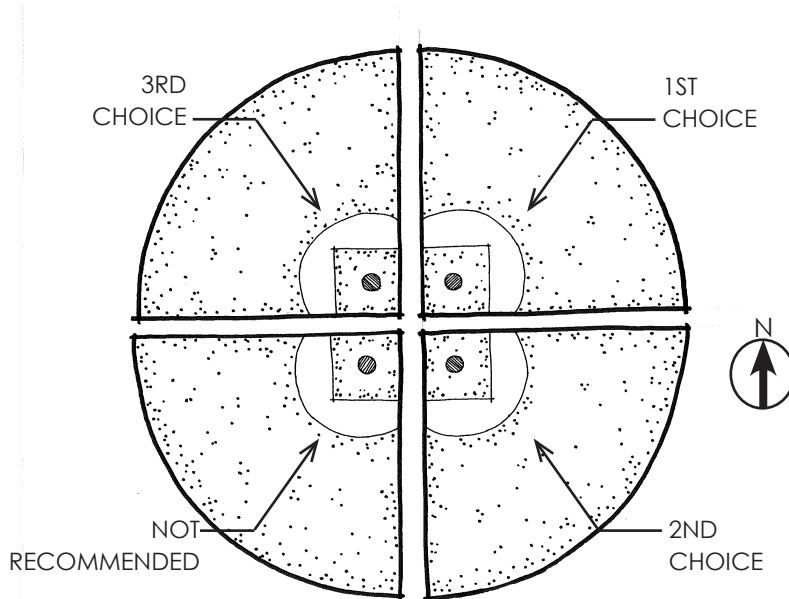


Exhibit 19: Preferred Baseball/Softball Field Orientation

The following list represents typical park amenities to be considered:

- Parking
- Restrooms
- Storage facilities
- Concession facilities
- Picnic tables
- Bleachers or other spectator areas
- Spillover noise and activity areas
- Surface drainage features
- Buffer zones
- Maintenance access areas
- Pedestrian access pathways

Table 3: Standard Field Dimensions and Minimum Acreage Required

Fields				
Baseball	Left Field	Center Field	Baseline	Minimum Acreage
Pro, College, High School	320-350 Feet	400 Feet	90 Feet	3.0 acres
Pony	250 Feet	300 Feet	80 Feet	"
Bronco	200 Feet	250 Feet	70 Feet	"
Little League	175 Feet	225 Feet	60 Feet	"
Pinto	150 Feet	200 Feet	50 Feet	"
Softball				
Adult slow pitch	265 Feet	315 Feet	65 Feet	2.0 acres
College	190 Feet	220 Feet	60 Feet	"
High School	200 Feet	225 Feet	60 Feet	"
Adult	200 Feet	250 Feet	60 Feet	"
Youth 10 and under	150 Feet	175 Feet	55 Feet	"

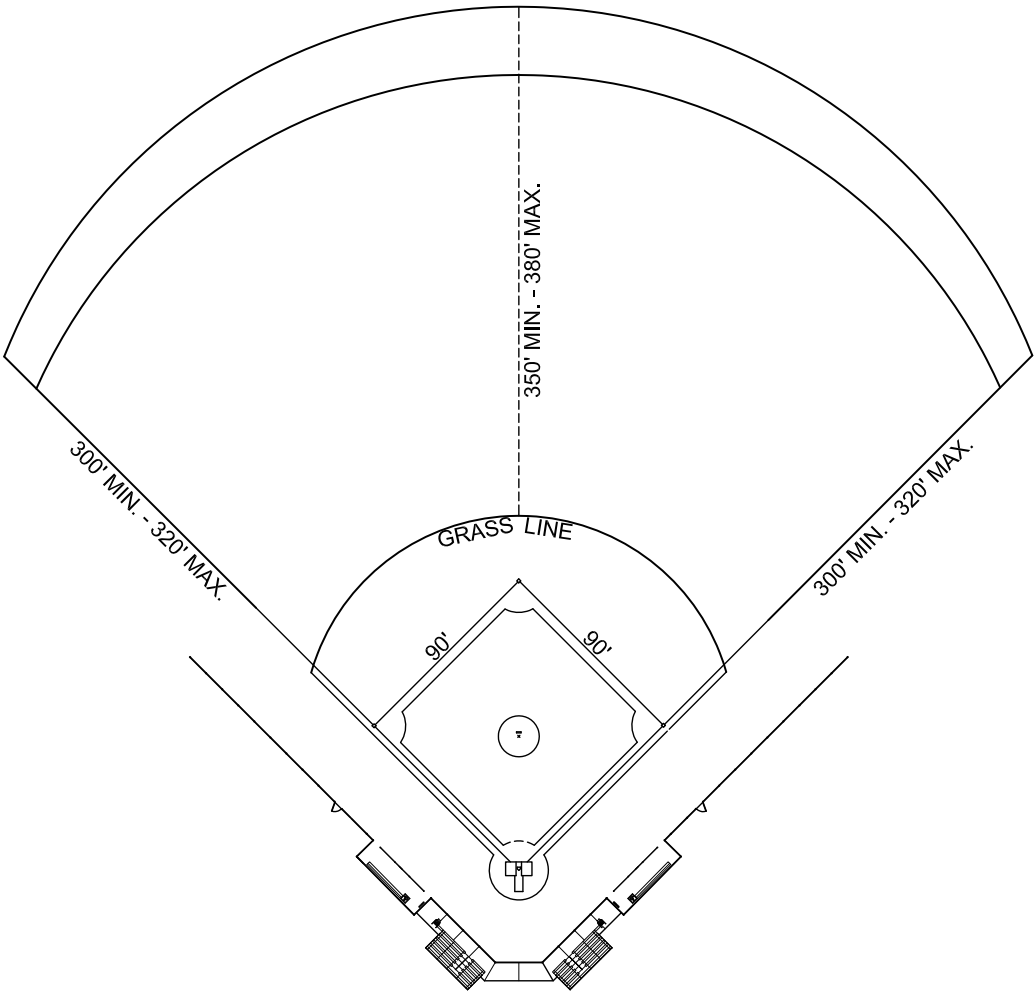


Exhibit 19: Baseball Field - Standard Layout

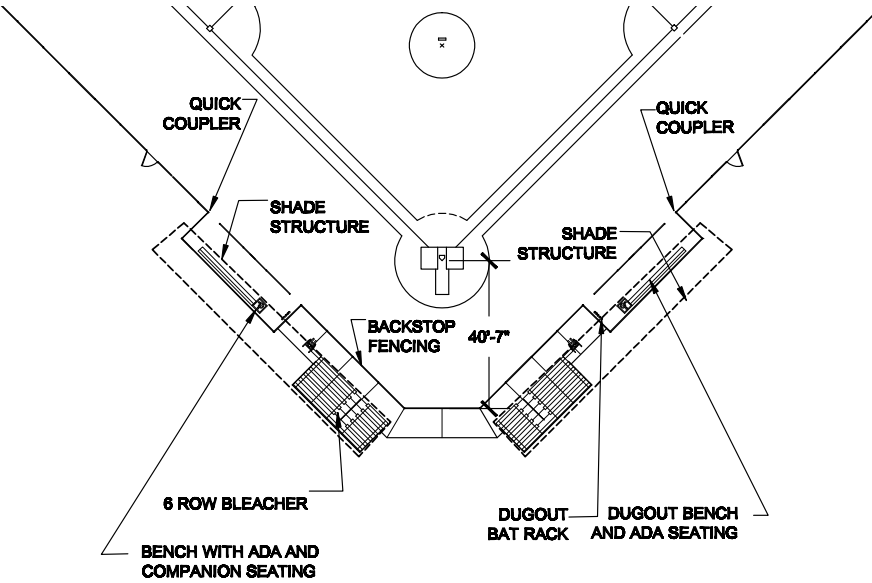


Exhibit 20: Baseball Field - Dugout and Spectator Seating enlargement

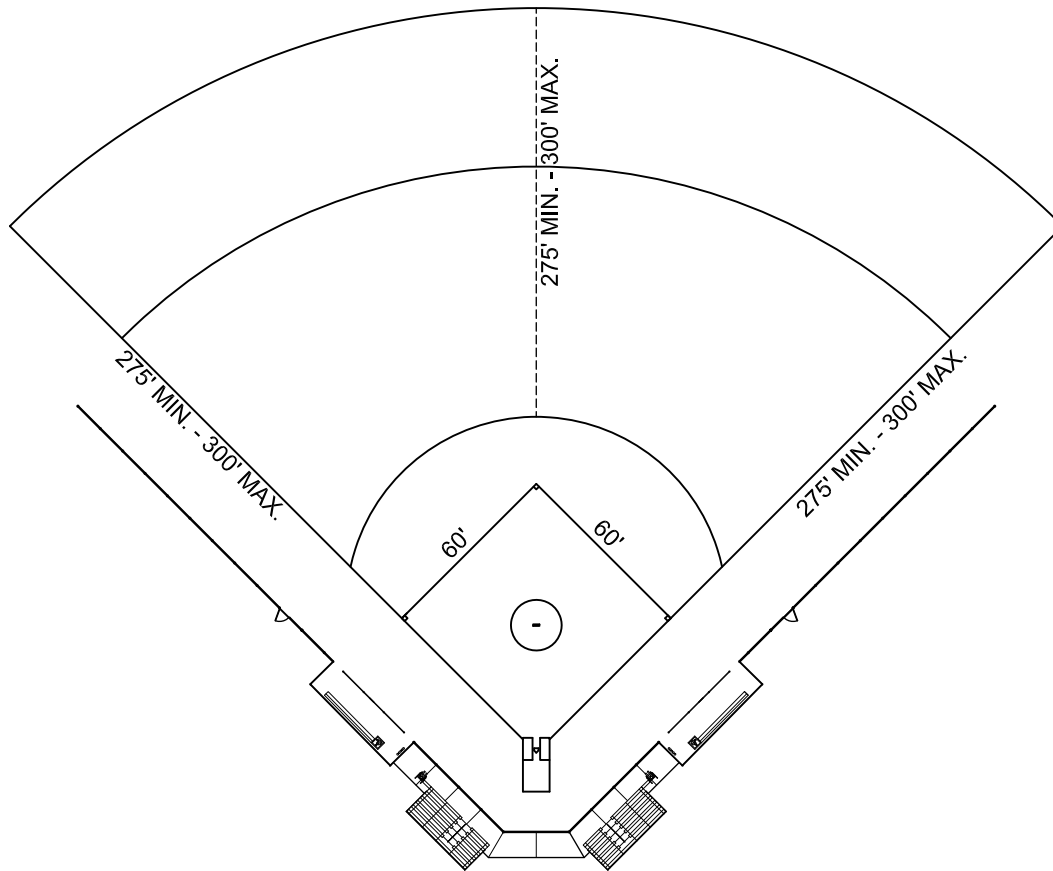


Exhibit 21: Softball Field - Standard Layout

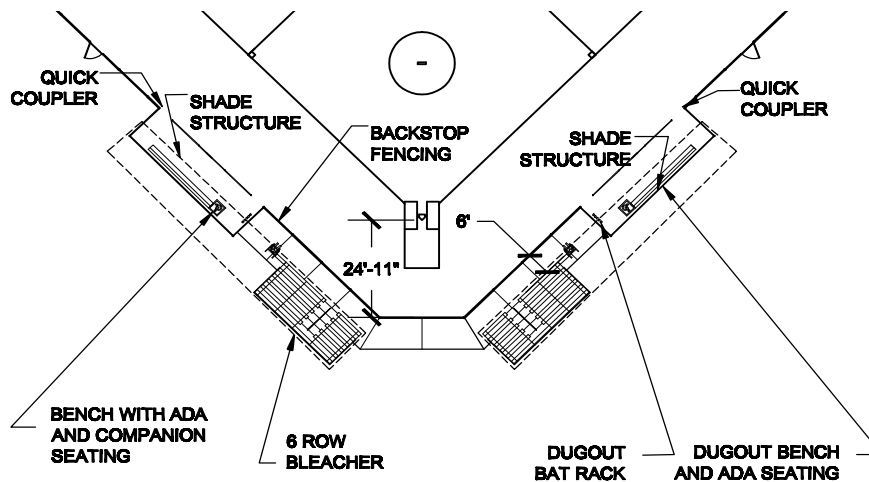


Exhibit 22: Softball Field - Dugout and Spectator Seating enlargement

5.1 Ball Fields

5.1.1 SPATIAL CONSIDERATIONS

Field sizes vary from approximately three-quarters (¾) of an acre for a little league baseball field, to approximately three (3) acres for an adult baseball field, with the center field fence 400 feet away from home plate. To account for additional space required for errant balls, spectator areas, and other ball field features, a full size baseball field may need up to six (6) acres.

- a. To address errant balls along the foul ball lines, a physical buffer or sufficient space should be provided for public safety. Refer to **Table 3** for standard field dimensions.
- b. Fifty feet (50') along first and third baseline is recommended when there is adjacent recreational activities such as children's play area and ballfields. See Ballfield Safety Zone Buffer **Exhibit 29** on page 35.
- c. The preferred field orientation locates the third base line aligned with true north. However, some sites may require variations from this preferred orientation.
- d. Fields should be crowned in the center with drainage to the sides with no more than a two percent (2%) slope for positive drainage. However, if specific site conditions make this unattainable, other drainage options will be considered.

5.1.2 AMENITIES

Baseball and Softball amenities illustrated in **Exhibits 19, 20, 22 1nd 23**

- a. Install ground sleeves for portable fencing, refer to the Standard Field Dimensions Chart, **Table 3** on page: 24 for various league field dimensions.

- b. Provide spectator seating areas with shade covers at all baseball and softball fields.
- c. Spectator areas should consist of either aluminum or concrete tiered seating and should accommodate ADA compliant seating and companion seating.
- d. Provide chain link fence enclosed dugouts with shade covers, player's benches, bat racks, and area for players equipment bags.
- e. Provide one (1) ADA compliant pedestal drinking fountain centered between the dugout and spectator bleachers.
- f. Provide softball infield mix of sixty percent (60%) brick dust to forty percent (40%) clay.
- g. Use Tigreen or Tifway sod unless the Agency's turf preference for ball fields is listed in the Design Standards Section 32 92 00 Turf Grass Sod.
- h. Provide irrigation quick couplers at the fence line in two locations:
 - One (1) between home plate and first base
 - One (1) between home plate and third base
- e. Provide one equipment storage containers/bin per field with a minimum of two hundred and forty (240) square feet of capacity or size at twelve by twenty feet (12' x 20').
- f. Provide batting cages with pitching machine electrical outlets.
- g. Provide outfield fencing with poly-cap or equivalent safety fence guard.
- h. Fence height should be per facilities program.
- i. Provide sports lighting and sports lighting timers.
- j. Provide an infield irrigation system (pop-up rotors).
- k. Provide a sub-surface drainage system.
- l. Locate all utility controls (sports lighting, infield irrigation controller, etc.) in an area convenient for operation and maintenance.
- m. Provide backstop fencing as specified in the Park Standards under the specific agency.

5.1.3 SPECIALIZED AMENITIES

- a. To be provided as indicated by the facility program.
- b. Provide concession building.
- c. Provide a public address system with announcer's table.
- d. Provide electronic scoreboard with score keepers console accessible from the third base bleachers.

5.2 Sports Fields

Many large athletic fields can be used for multiple purposes and sports of similar sizes and dimensions. **Table 4:** Provides the standard court dimensions and acreage for sport fields. Football and soccer are two of the most popular sports and their field sizes are quite compatible for dual use.

Table 4: Provides the standard court dimensions and acreage for sport fields. Football and soccer are two of the most popular sports and their field sizes are quite compatible for dual use.

5.2.1 SOCCER

Soccer fields vary greatly in size depending on the age and level of play. A field for players of age six (6) and under is approximately 0.12 acres in area while a field for adults can require nearly two (2) acres. Additional area is also required for spectator areas, missed shots, and errant passes. An adult soccer field with supporting areas may need up to three (3) acres of land. A typical soccer field layout is provided in **Exhibit 22**.

- All fields should have a two percent (2%) max. Slope for positive drainage. However, if specific site conditions make this unattainable, other drainage options will be considered.
- The long axis of the field should have a north/south orientation whenever possible.
- Where there are multiple fields, the minimum space between fields should be twenty feet (20').
- Provide an area of twenty feet (20') in width around the field's perimeter ten feet (10') minimum with no trees (measured from the maximum drip line), berms, planters, sidewalks or light standards.
- The soccer field should have a minimum slope of one and one half percent (1.5%) on fields that will surface drain and are native soil. Slope is measured from center to side, highest point is the center.

- If synthetic turf is used with underground drainage, the soccer field should have a minimum slope of one percent (1%).
- Use Tigreen or Tifway sod unless the Agency's turf preference for ball fields is listed in the Design Standards Section 32 92 00 Turf Grass Sod.
- Markings for soccer fields are chalked prior to the game. Permanent field markings are not necessary unless the playing fields are synthetic turf.

- For lighting refer to Section 10.1.2 Recreational Field Lighting page 56.

5.2.2 SPECIALIZED AMENITIES

- To be developed as indicated by the facility program.
- Provide all synthetic turf fields with;
 - Irrigation system for cooling fields and cleaning
 - Ten feet (10') high perimeter fencing
 - Subsurface drainage

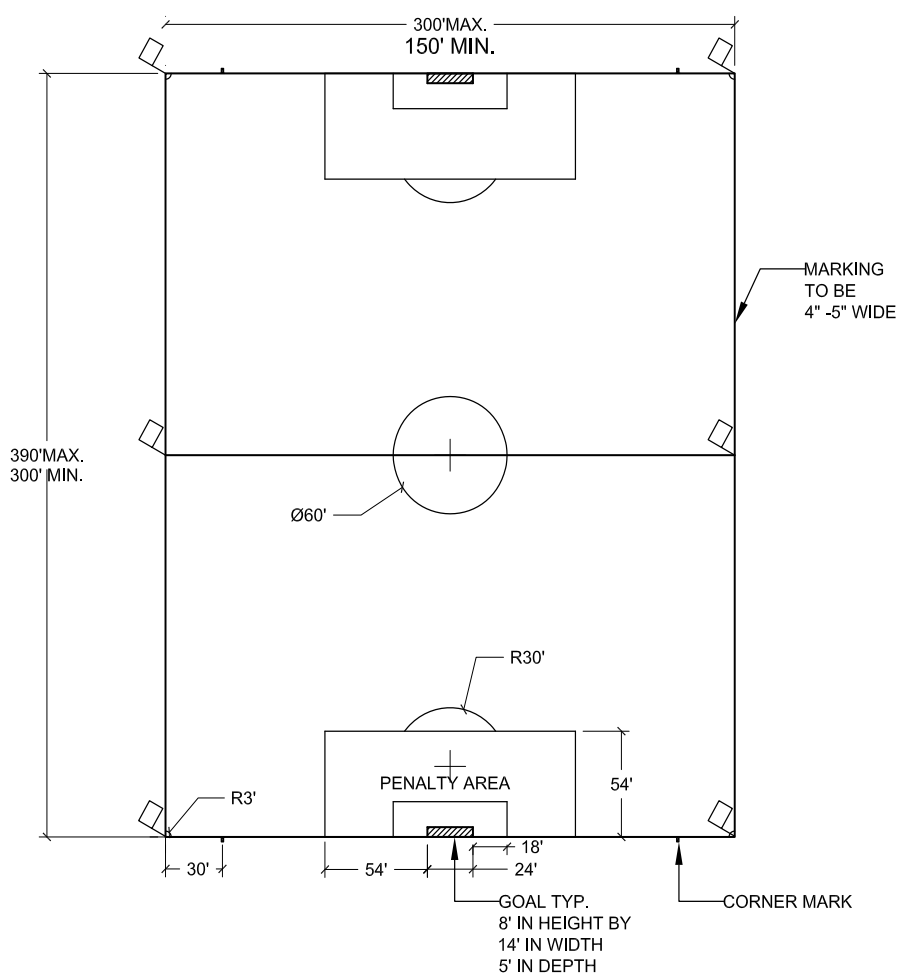


Exhibit 22: Soccer Field - Standard Layout

Table 4: Standard Field Dimensions and Acreage for Sports Fields		
Sport	Field Dimensions	Minimum Acreage
Soccer	225'x 330' field dimension	1.7 acres
Football	120 yards x 53 yards	1.3 acres
Field Hockey	100 yards x 60 yards	1.2 acres
Lacrosse	119 yards x 69 yards	1.7 acres

5.3 Sports Courts

5.3.1 BASKETBALL

Table 5 lists common dimensions for basketball courts. A diagram of a typical basketball court is provided overlaid on a standard volleyball court **Exhibit 23**.

- a. Where possible, locate sports courts along the edges of the park to maximize visibility for security. Provide a separation from the street with a low berm or low planted landscape buffer. This separation should be a minimum of fifteen feet (15') and a maximum of twenty feet (20') in width.
- b. All courts should have a one percent (1%) max. slope for positive drainage.
- c. Provide sports lighting as indicated by the facility program.
- d. Surrounding land uses must be considered for possible impacts from noise and sports lighting.
- e. Adult / teen basketball activities should be located away from small children's and passive activity areas.
- f. Provide shaded spectator seating at the perimeter of the basketball court beyond the additional ten feet (10') of unobstructed area outside of the inside line .

- g. The court surface should be integral colored concrete with a medium broom finish to prevent slipping.
- h. Provide basketball pole pads on the pole standards.
- i. Provide a minimum of ten feet (10') between courts placed side-by-side, or end-to-end.
- j. All markings on the playing surface should be applied using a wear-resistant, colored substance. All markings should be a minimum of two inches (2") in width. Color to be white.
- k. The long axis of the court should have a north / south orientation wherever possible.

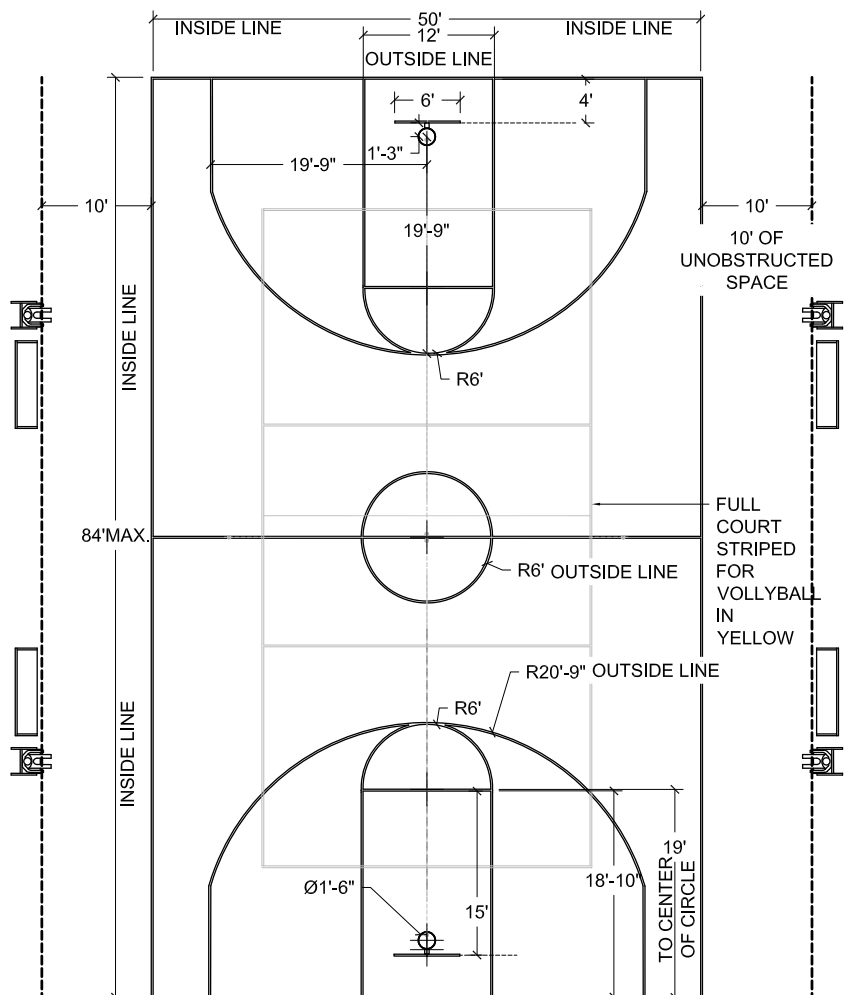


Exhibit 23: Basketball Court - Standard Layout over Volleyball Court

Sport	Field Dimensions	Minimum Acreage
Basketball - Full Court	84'x 50'	0.11 acres

5.3.2 TENNIS COURTS

Table 6; lists common dimensions for tennis courts. A diagram of a typical tennis court is provided.

- Tennis courts should be oriented with the long axis north to south.
- Courts should be concrete with an appropriate slip-resistant surfacing. Colors should be determined by the department during design.
- Side by side courts within one fenced enclosure should be a minimum of twelve feet (12') apart. End to end courts within one fenced enclosure should be a minimum of twenty-one feet (21') feet apart.
- All markings on the playing surface should be applied using a wear-resistant, colored substance, a minimum of two inches (2") inches wide. Color to be determined and approved by the department during design. Refer to **Exhibit 24** for a diagram of a typical tennis court.
- Provide vented windscreen fabric on perimeter fencing.
- Provide a practice wall (without side walls) on one side or end of the tennis court.

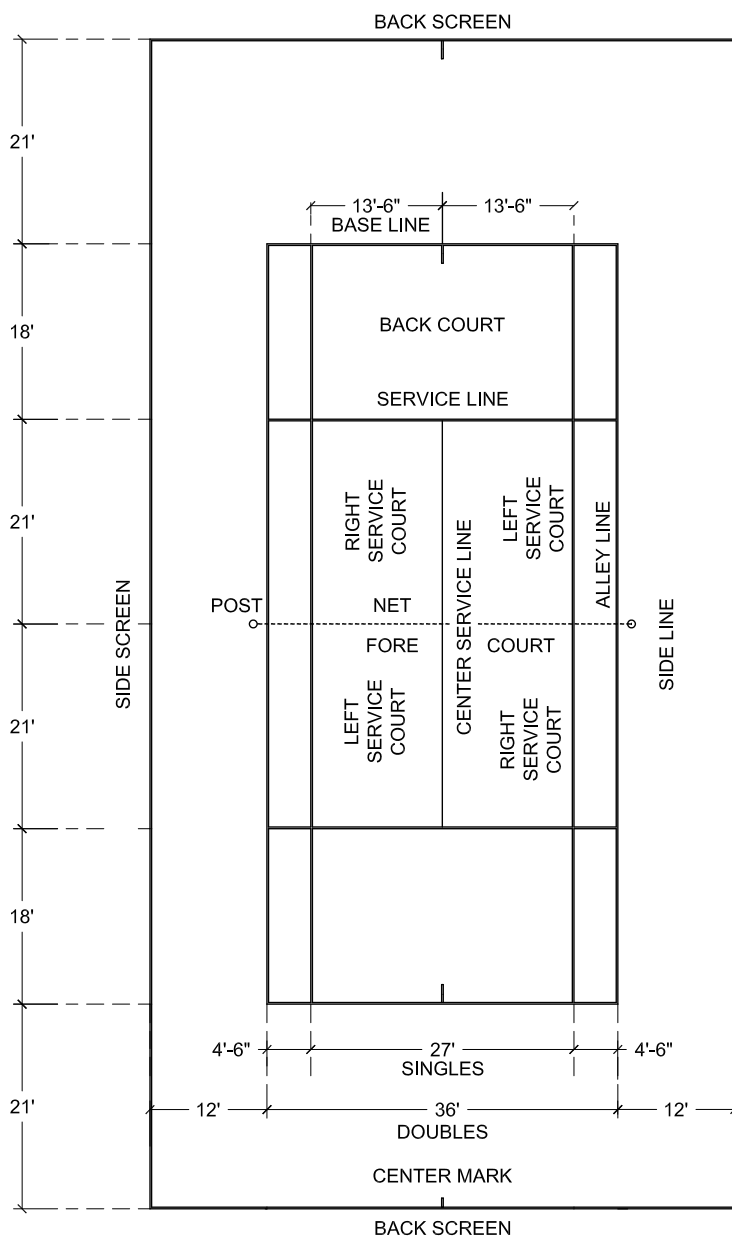


Exhibit 24: Tennis Court - Standard Layout

Table 6: Standard Court Dimensions and Acreage for Tennis Courts		
Sport	Court Dimensions	Minimum Acreage
Tennis Court	78'x 36'	0.064 acres
Tennis Enclosure	120'x 60'	0.165 acres

5.3.3 FUTSAL COURTS

Futsal is a variation of soccer that is played on a smaller playing surface and mainly played indoors on a hard court surface. It is frequently referred to as five-a-side or mini-soccer. It is played between two teams of five players, one of whom is the goal-keeper.

Futsal is compatible with sports courts.

Table 7 below lists common dimensions and areas for futsal courts. Refer to **Exhibit 25** for a diagram of typical futsal court is provided to the right .

- a. Provide hard court surface delimited by lines applied using a wear-resistant, colored substance.
- b. Provide safety fencing mon. of six feet (6') in height. No boundary walls or boards are necessary.
- c. Provide two team benches preferably shaded if budget allows and an official's table (optional).
- d. Provide two goals, one on each end of the court.

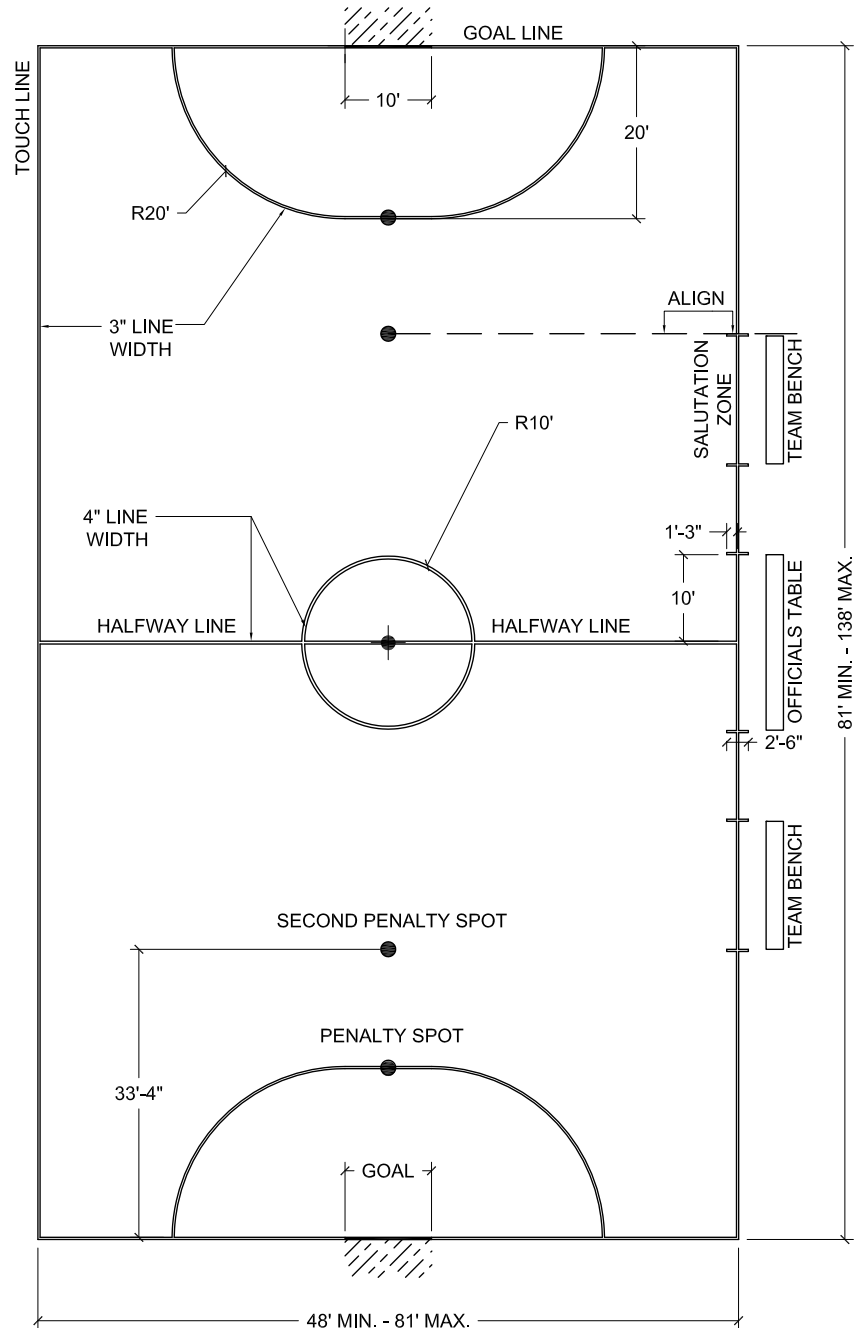


Exhibit 25: Futsal Court - Standard Layout

Sport	Court Dimensions	Minimum Acreage
Futsal Court	48' x 81' min.	0.09 acres
	81' x 138' max.	0.26 acres

5.3.4 VOLLEYBALL COURTS

Table 8; lists common dimensions and areas for volleyball courts. A diagram of a typical volleyball court is provided **Exhibit 26**.

- a. Volleyball courts can be concrete, sand or grass. The volleyball surface should be determined by the project facility program.
- b. If sand is specified, provide 20-30 mesh silica sand.
- c. If sand is specified affix court-boundary nylon cords to sub-grade anchors.
- d. When placed side by side, volleyball courts should be a minimum of ten feet (10') apart and a minimum of fifteen feet (15') apart when placed end to end.
- e. A standard sand volleyball court is thirty feet (30') by sixty feet (60'), with the sand area fifty feet (50') by eighty feet (80') feet. A twelve foot (12') wide zone beyond the sand is typically provided around the court for players to pursue the ball. The total area required is approximately 0.2 acres. Although sand depths vary, a depth between twenty-four inches (24") and forty-two inches (42") is preferred.
- f. The fifty feet (50') by eighty feet (80') sand area should be contained by a six inch (6") wide rubberized border.
- g. The twelve foot (12') zone beyond the sand area should be turf.
- h. All markings on concrete playing surfaces should be applied using a wear-resistant, colored substance. Color to be determined and approved by the Department during design.
- i. Provide shaded spectator seating adjacent to all volleyball courts.
- j. Adult / teen activities such as volleyball should be located away from small children's activities.

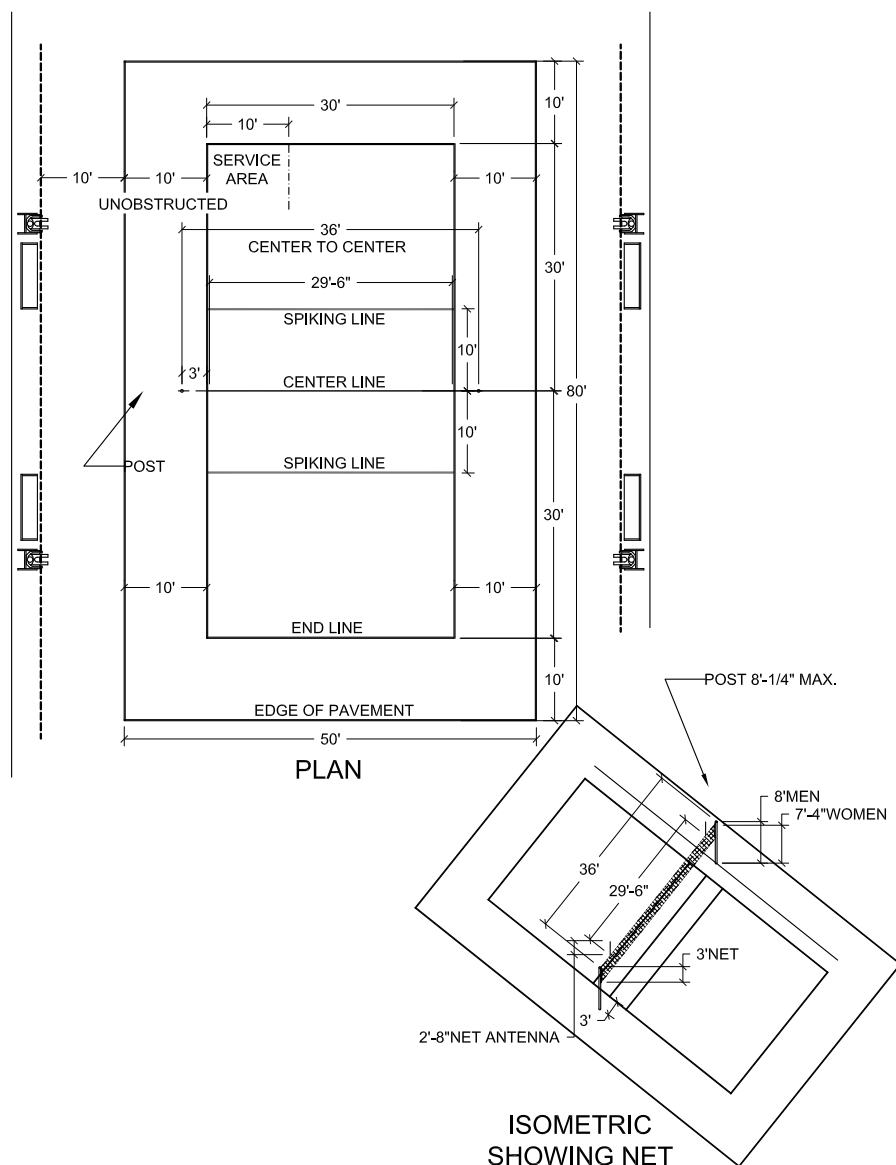


Exhibit 26: Volleyball Court - Standard Layout

Table 8: Standard Court Dimensions and Acreage for Volleyball Courts		
Sport	Court Dimensions	Minimum Acreage
Volleyball	60'x 30'	0.041 acres
Volleyball Play Zone	80'x 50'	0.091 acres

5.3.5 MULTI-USE COURTS

Table 9 lists standard dimensions and areas for volleyball, basket ball multi use courts. A diagram of a typical volleyball court is provided below **Exhibit 27**.

- Stripe volleyball court lines on a basketball court in yellow.
- Provide in-ground volleyball sleeves, sockets, caps or plates and anchors to secure one (1) removable volleyball court net.

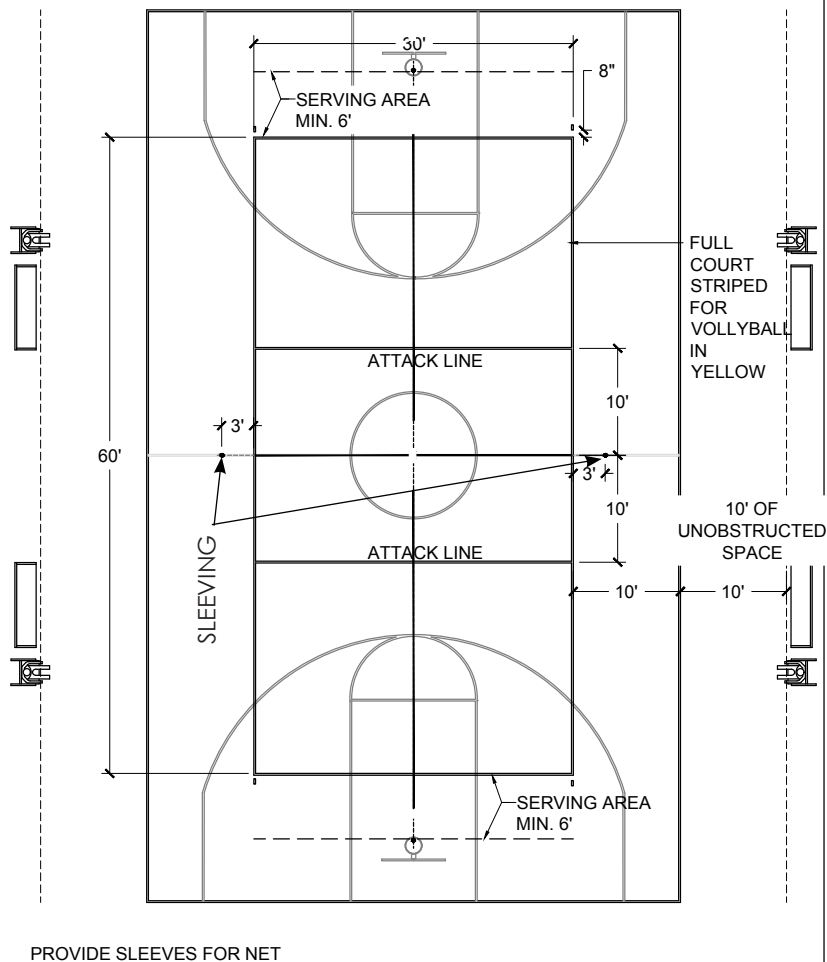


Exhibit 27: Volleyball Court - Standard Layout over a Basketball Court

Table 9: Standard Court Dimensions and Acreage for Volleyball Courts (multi-use)		
Sport	Field Dimensions	Minimum Acreage
Volleyball Court and half Court	30'x 60'	0.11 acres

5.4 Extreme Sports

There are several characteristics common to most extreme sports. They typically have a younger-than-average target demographic, are rarely sanctioned by schools, and tend to be more solitary than traditional sports. Participants in these activities compete not only against others, but also against environmental obstacles and challenges.

5.4.1 SKATE PARKS

There are a variety of styles of skate parks with varying degrees of difficulty inherent to skate parks. While above ground skate parks offer the convenience of installing moveable skate elements, in-ground skate parks offer greater challenge and a higher degree of flow or movement between the elements. However varied in their design, the county's skate parks should share the following features and elements inherent to these facilities:

- A minimum of 5,000 s.f. skating area should be allocated.
- Skate elements, including complexity and degree of difficulty should be determined by the agency based on community needs and desires.
- Skate park surfaces materials should be made of smooth concrete.
- Provide a five foot min. (5') tubular steel (non-climbable) perimeter fence enclosing the entire skate area.
- Provide a vehicular pathway and double-gate entry for vehicular maintenance and emergency access.
- Provide shaded spectator bleachers and a drinking fountain.
- Surfaces should slope to capture and manage storm water run-off.
- Provide sports lighting sensitive to spill-over into the surrounding neighborhood.
- Locate facility away from small children's activities.
- Provide a pedestrian path linking the skate park to the park's primary circulation path.

5.5 Fitness Zones

Fitness zones are outdoor facilities designed with kinetic exercise equipment, to promote general health by encouraging active participation on high quality outdoor equipment.

- Provide ADA accessibility into the fitness zone.
- Provide a surface material consistent with achieving ADA access to the individual exercise apparatus.
- Provide durable and vandal resistant equipment appropriate for teenagers and adults of all fitness levels.
- Provide shade over fitness zone areas.



5.6 Horseshoe Pits

- Provide this recreation element as directed by the facility program.
- The overall length is forty eight feet (48') long and six feet (6') wide, and includes the pit, the pitching platform, and the stake.
- A diagram of a typical horseshoe pit is provided, **Exhibit 28**.

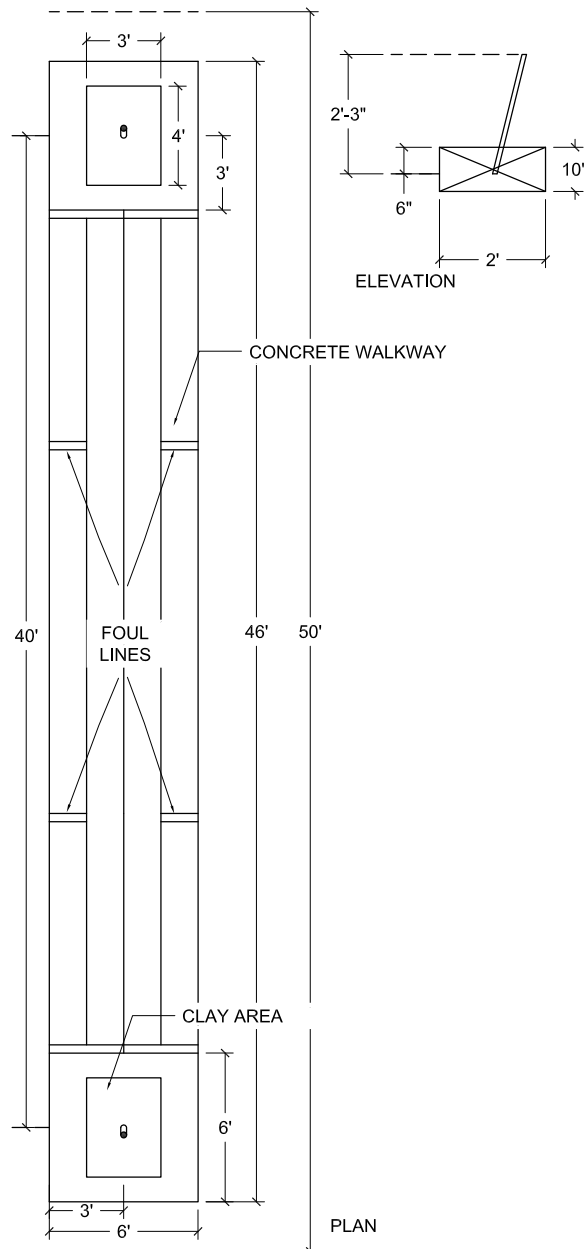


Exhibit 28: Horseshoe Pits - Standard Layout

5.7 Children's Play Areas

Children's play areas fall into two age group classifications: Pre-school age children of two to five (2-5) years and school age children ages five to twelve (5-12) years. Each age group category must have a distinctly different space with required separations.

Provide children's play areas as directed by the project facility program.

5.7.1 SPATIAL CONSIDERATIONS

- a. Pre-school age children play areas, often referred to as tot-lots, should have a suggested area of 2,500 s.f., and should be designed for pre-school age children of two to five (2-5) years of age, and have a recommended maximum deck height of forty-eight inches (48").
- b. School age children play areas should have a suggested area of 5,000 s.f., and should be designed for five to twelve (5-12) years of age and have deck heights ranging upwards of six feet (6').
- c. Composite play areas that serve children of both two to five (2-5) years and five to twelve (5-12) years should be a minimum of 7,000 s.f. in size with functionally separate play structures and events.
- d. In single composite play areas that service children of both two to five (2-5) years and five to twelve (5-12) years, provide space and/ or a barrier to separate the two age groups and ensure that play patterns do not interfere with one another.
- e. Play areas should be sited with safety in mind and follow the following criteria.
 - f. Maintain one hundred and fifty (150') from vehicular travel or provide a forty two to forty eight inch (42"-48") high fence to prohibit children from running into vehicular traffic.
 - g. Maintain a minimum distance of fifty feet (50') between children's play areas and ball-fields. Refer to **Exhibit 29**, Ball-field Safety Zone Buffer
 - h. Maintain one hundred feet (100') from active recreation areas (e.g. ball fields or sport courts) or provide adequate fencing.
 - i. Play areas should include shaded seating for parental supervision such as benches under tree canopies or in close proximity to group picnic areas.
 - j. Develop playgrounds that provide enhancement of children's total developmental needs, including physical, social, creative, reflective and tactile experiences.
 - k. Linkage of play areas to open space is desirable.
 - l. Develop natural barriers or features to segregate play areas from conflicting or incompatible uses.
 - m. Provide unobstructed lines of sight between separate play areas for ease of supervision.
 - n. Provide shade structures that are free-standing or attached to the play structures.
 - o. Provide shade structures with steel posts, and rigid metal roofing or shade fabric.
 - p. Provide restrooms with hot water preferably, within one hundred feet (100') of play area.
 - q. Restrooms must be in a clear line of sight from play areas.
 - r. Provide ADA compliant water fountains in close proximity to play areas.
 - s. Drinking fountains should be located a minimum of twenty-five feet (25') from all play areas.
 - t. Drinking fountains should be visible from play areas.
 - u. Design facilities to permit use by the physically disabled by providing ground play opportunities, transfer points to elevated play, and either ramps with engineered wood fiber or flush installation of rubber tile surfacing.
 - v. Scale equipment and apparatus to the size of the intended users.

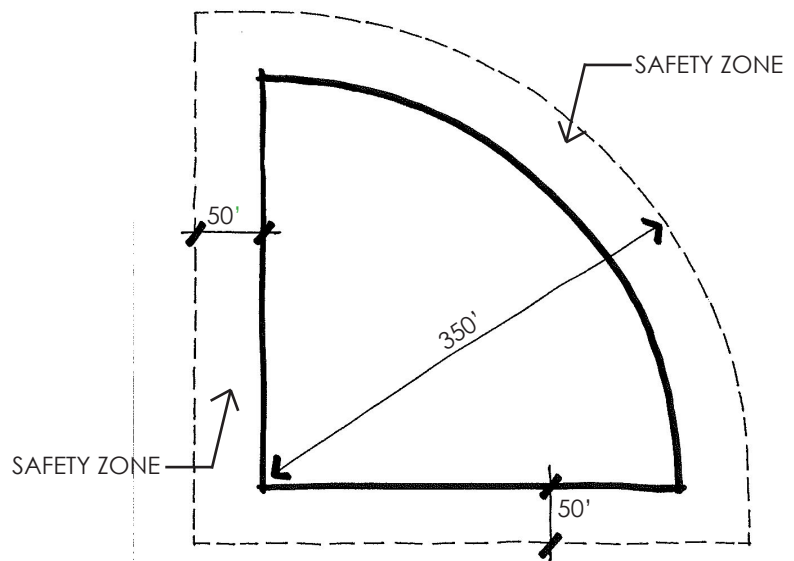


Exhibit 29: Ballfield Safety Zone Buffer

- w. Provide irrigation quick-couplers outside the perimeter of play areas. The distance between quick couplers should be fifty feet (50').

5.7.2 LAYOUT

- a. Provide age designation signage at the entrance of each play area that states the age appropriateness of the play equipment and recommendations for adult supervision.
- b. Provide an ADA compliant access ramp near the play equipment transfer deck per the Consumer Product Safety Commission (CPSC) Guidelines.
- c. Provide a two inch (2") clearance between the finished surface of the engineered wood fiber and the top of adjacent play area curb.
- d. Orient the swing area away from the active play area to avoid conflicts in play circulation. Swings can be either visually or physically separated from the active play area.
- e. Provide an additional two feet (2') between the required fall zone of a play component and the play area containment edge.
- f. Equipment layout including fall zones must follow current CA State Law AB1144 Harmon, ADA regulations, Consumer Product Safety Commission (CPSC) Guidelines, and ASTM.
- g. As a general rule, provide a one hundred and fifty cubic foot (150 cu. ft.) drain sump per one thousand five hundred square feet (1,500 sq. ft.) of play area surface.
- h. All sumps should follow the County Standard Details, with a drain pipe connecting all sumps within the play area to a sump outside the play area.⁷
- i. Where possible, an overflow drain pipe should be used to connect the drain sump outside the play area to the nearest storm drain. An alternate drainage outlet may be located through a curb to the storm drain or to a rip-rap outfall.
- j. All play structure footings should be per the manufacturer's details, and are to be a minimum of eighteen inches (18") diameter by three feet (3') deep.
- k. Where non-standard manufacturer footings are required, the County prescribes that the volume of concrete be multiplied by one and one half (1 ½), with the minimum depth to remain at three feet (3').
- l. All posts should extend to the bottom of the footing with a minimum clearance of three inches (3") on all sides of concrete footing. Provide a clamp or other acceptable mechanism to anchor the post inside the footing.
- m. Curbs and ramps should all be as per County Standard Details.

5.7.3 EQUIPMENT

- a. The Department must approve colors of the play components.
- b. Playground equipment and design must meet current U.S. Consumer Product Safety Commission (CPSC) guidelines and standards as set forth in the Handbook for Public Playground Safety, as intended by SB 2733, and updated as per AB 1144 (Harmon), and must meet or exceed ASTM standards.

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Development Division Telephone number 213-639-6706

- c. Playground design must comply with the latest requirements of ADA for public agencies, which include accessible elevated, and ground level events.
- d. As a rule, play equipment must be from the standard manufacturer's equipment currently specified at County Parks. However, different equipment may be installed as directed by the facility program.
- e. Alternative play equipment such as climbing boulders or concrete animal sculptures may be used as directed by the facility program.
- f. Playground equipment components should be specified of durable construction with:
 - Five inch (5") primary post-size minimum.
 - UV stabilized rotomold polyethylene .
 - All plastic components should be constructed with UV inhibitors for longevity.
 - Hardware should be of an uncommon head type or have an insert/cover for vandal deterrent purposes.
 - Ropes should be constructed of nylon with a steel core.
- g. The design and equipment should include a variety of play elements that encourage:
 - Swinging
 - Spinning
 - Hand over hand and side to side climbing
 - Balance challenges
 - Overhead activities
 - Sliding
 - Sensory development
 - Crawling
 - Imagination
 - Adventure

⁷ For a copy of Play Equipment Standard Installation Details" Contact County of Los

- h. The Department encourages unique innovative designs that provide increased play value, i.e. electronic play systems.
- i. Play equipment design should consider durability and the long-term maintenance requirements of the specific equipment, as well as the potential for vandalism and graffiti.
- j. All proposed play equipment is expected to be in place for a minimum of twenty (20) years.
- k. Wooden play equipment should not be specified.
- l. Swings should be provided as a standard element in all play areas.
- m. Play area themes may be considered where the budget is not adversely affected by the introduction of custom designed elements.

5.7.4 SURFACING

- a. The preferred surfacing for fall attenuation is engineered wood fiber with a minimum depth of sixteen inches (16").
- b. Rubber tile may be used as an alternate surface material with the stipulation that the critical fall height be increased by one foot (+/-1') from the actual equipment requirements, and all tile in the same play site be the same thickness.
- c. Rubber tile should be installed over a four inches (4") nominal slab with #4 rebar at eighteen inches (18") on-center each direction.
- d. All rubber tiles should be provided with a fifteen-year warranty (not pro-rated) to ensure the surfacing meets the required fall attenuation.
- e. Provide nominal three foot by three foot (3'x 3') rubber mats as per County Standard Details

under all swings, and at all slide exits when engineered wood fiber or sand are used for the fall surface.

- f. Poured-in-place rubber surfacing will not be accepted as a play surface.

5.8 Splash Pads

All design criteria for splash pads and their associated equipment must comply with the latest standards provided by the County of Los Angeles Department of Public Health (DPH), current plumbing and electric codes, and all local jurisdictional requirements.

Design reviews for Splash Pads should include the field agency's Aquatics Division in addition to the typical design review process.

5.8.1 SPATIAL CONSIDERATIONS

- a. Provide shade sails over the splash pad to prevent the surface water temperature from getting hot.
- b. Verify heights of all water feature equipment to provide adequate clearance from shade sails.
- c. Provide shaded benches outside the splash pad for parental observation.

- d. Provide a decorative fence with appropriate corrosive-resistant finish, this fence should be used as a measure of safety around parts of the splash pad if required.
- e. Sand or wood fiber play area surfacing is not allowed within a minimum radius of:
 - One hundred feet (100') for sand.
 - Fifty feet (50') for wood "fi-bar"
- f. Care should be taken to determine wind directions and assess the possible impacts of over spray onto vegetation within the vicinity of the splash pad.
- g. No deciduous or pine trees should be planted near or around the splash pad.
- h. The accumulation of leaf debris or grass clippings should be minimized around the splash pad, to reduce water filtration issues.
- i. Provide seat walls at the perimeter of the splash pad to prevent debris from reaching the pad.
- j. Provide design features to discourage skateboarding on the seat walls.



- k. Provide graffiti coating to all seat walls unless otherwise specified on the facility program.
- l. Provide an ADA path of travel to the splash pad area.
- m. Provide ADA restrooms with warm water service in the proximity of the splash pad.
- n. The Splash pad surface area should be a minimum of two thousand five hundred (2,500) square feet.

5.8.2 DESIGN REQUIREMENTS

- a. Provide a combination of in-ground spray orifices and stainless steel upright equipment as sources of the spray features.
- b. Splash pad moving and overhead features should be constructed of light weight fiberglass materials.
- c. The spray from all splash pad elements should be restricted to the limits of the splash pad finished surface. For example: the reach of cannon arcs sprays should be restricted to the outer edge of the splash pad.
- d. Provide a Water Quality Management System (WQMS) enclosure sized at a minimum of twenty feet by twenty feet (20' x 20') or as per manufacturer's recommendations.
- e. A minimum area of twenty feet by 10 feet (20' X 10') is required for the 4,000 gallon underground water storage tank.
- f. Enclosures shall not contain equipment for purposes other than the splash pad.
- g. Provide a two foot (2') wide walking clearance around entire mechanical skid.
- h. Provide a lockable welder's box with dimensions of fifteen inches in height by thirty one inches in width by eighteen inches in depth (15"H x 31"W x 18"D) minimum. Locate the box in the mechanical enclosure off the

finish floor. If the enclosure is Contractor provided, paint the box to match the mechanical enclosure.

- i. Pool type signage as well as emergency shut off signage are required per DPH codes.
- j. Provide a hedge around the WQMS enclosure to discourage graffiti, provide sound reduction and improve park aesthetics. Large trees with aggressive roots shall not be placed immediately around the enclosure.
- k. Enclosure locations shall not exceed 100' from the splash pad, or as per manufacturer's recommendations.

5.8.3 SURFACING

- a. Splash pad surface should be durable and non-slip with a colored pattern design.
- b. Where colored concrete is being used as the surface of the splash pad, the finish should be a medium broom finish.
- c. Provide slip-resistant surfaces on the tops of all seat walls.

5.8.4 EQUIPMENT

All the splash pad mechanical equipment should be located within an enclosed shade structure and comply with the following criteria:

- a. One wall should have double doors wide enough to accommodate the replacement of any mechanical equipment within the enclosure.
- b. All walls should provide fifteen percent (15%) to twenty percent (20%) passive ventilation in the form of perforated screening. A solid wall with intake and exhaust ventilation may be required depending on geographical location requirements.
- c. Allow sufficient spacing between chemical containers, and for electrical equipment

per local codes and jurisdictional regulations.

- d. Provide lighting and adequate space for daily testing and monitoring of the system.
- e. Provide a concrete surface within the shelter, sloped to provide positive drainage to a sanitary sewer.
- f. Provide sanitary sewer/leach field a minimum of thirty two inches (32") below grade immediately adjacent to the Water Quality Management System (WQMS).
- g. Provide accessibility to all equipment and proper OSHA clearances for serviceability.
- h. Provide an eyewash station per safety regulations.
- i. Provide factory maintenance and operation training, including maintenance and equipment manuals at the project turn-over to the Department.
- j. Operate the Water Quality Management System (WQMS) at least one week before project turn over.
- k. Provide two (2) extra filter pump screens, feature pump screens and wye strainer screens at project turn over.
- l. Avoid installing the floor drain box underneath the equipment skid.

5.8.5 ELECTRICAL

- a. Provide a 100 AMP three-phase power source.
- b. Emergency shut off push button switch should be provided to shut down the control panel.
- c. The emergency shut off button should be accessible and covered with a clear cover installed at 48" above finish surface. Provide emergency shut off signage visible from the splash pad. Verify ADA switch height.

- d. Provide lighting for the mechanical equipment enclosure.
- e. The lighting switch should be installed near the entryway column. Fixtures, conduits, boxes and fittings should be of weather tight materials and installed per code. Provide a ground fault 20 amp circuit (gfc) outlet as required by code.
- f. Clearances in front of panels should be per code with panel schedules and circuitry identified.
- g. Emergency shutoff switches shall be wired/connected into the variable frequency drives to allow for facility staff to reestablish operations after the shutoff button has been pressed.
- h. A DATA connectivity line shall be provided in the enclosure to allow for remote connection.
- i. Provide a quick coupler within one-hundred feet (100') of the furthest edge of splash pad. Insure the quick coupler is backflow protected.
- j. All PVC pipe joints should be solvent weld cement. No mechanical joints will be allowed under concrete or turf.
- k. Locate Chemical Vats next to the Water Quality Management System (skid) at two (2)-corners on the same side. If the design requires vats to be located next to the enclosure wall, provide a one inch (1") PVC conduit with sweeps for routing of the chemical supply tubing under the concrete slab.
- l. Provide inlet & outlet isolation ball valves on the chemical controller water sample well. Provide UV protected poly tubing on the skid.
- m. Provide support brackets where needed to eliminate pipe movement on all hard piping located on the skid. No piping should move on start up or shut down.
- n. Provide a skid tool repair kit and chemical Photometer for water quality testing.
- o. Post a Safety Data Sheet (SDS) inside the equipment enclosure.
- p. Provide a three hundred pound (300) rated ladders in each water holding tank.
- q. Clean all tanks and boxes of construction debris, dirt, etc. before start up.
- r. WQMS feature valves should have chloramines resistant diaphragms. Valves and solenoids should have a two hundred and twenty five (225) pound rating.
- s. Use ONLY schedule 80 pipe and fittings
- t. Provide isolation valves on the source water lines to allow for routine maintenance

5.8.6 PLUMBING

- a. Per Public Health Department requirements, provide tempered warm water to sinks in the nearest restroom or Comfort Station.
- b. Provide a one and one half inch (1-1/2") domestic water source.
- c. Provide perimeter protection to the underground water storage tank and its associated plumbing with, but not limited to bollards.
- d. Provide Eye Wash / Drench Combination Safety Shower piping to the domestic side of the backflow device.
- e. Provide backflow protection from splash pad holding tank.
- f. Provide a pressure regulator when inlet pressure exceeds manufacturer's tank fill valve recommendations.
- g. Domestic water supply line to be one and one half inch (1-1/2") iron pipe size brass or type "K" copper.

5.9 Pools

Park pools are designed to hosts a variety of standard swim programs, including recreational swimming, and/or regional competitive swim meets. Provide pool facility as per the Agency's Facility Program.

The pool and deck that host competitive meets should be designed with the supporting infrastructure for competitive swimming meets. The pool deck must be designed to house a significant quantity of shaded spectator bleacher seating.



Design reviews for Pools should include the field agency's Aquatics Division in addition to the typical design review process.

5.9.1 COMPETITION POOLS

- a. Provide a Competition Swimming Pool, length and width sized at:
 - Long Course: fifty (50) meters or one hundred sixty four feet one half inch (164'-1/2"). Short Course: twenty-five (25) meters, or eighty two feet and one quarter inch (82'-1/4").
 - By twenty five (25) yards or seventy five feet one and three sixteen inches (75'-1 and 3/16").

- Each dimension having a tolerance of plus point zero three (+ 0.03) meters or one and three sixteenth inch (1 and 3/16").
- b. The depth of the competition pool should range from:
 - Three feet six inches (3'-6") at the bottom of the stairs transitioning to a uniform four feet (4'-0") depth across the shallow end wall.
 - The pool will then transition from the shallow end wall to a depth of seven feet (7'-0") for the majority of the pool length.
 - At the deep end of the pool the depth will again transition down to a depth of four-

teen feet (14') under the diving boards (if a diving board is required). The transition and slope are to meet the current State County and Local depth requirements.

- c. The pool should be steel reinforced pneumatically-applied concrete (shotcrete) with tile lane markings and targets.
- d. Provide a deep racing gutter system around the entire perimeter of the Competition Pool.
- e. Provide two means of ADA access into the Competition Pool: an "Aquatic Access" In-Ground Automatic Turn of 180 Degrees (IGAT-180-AD) hydraulically powered accessible lift, and walk-out stairs with a dual handrail.

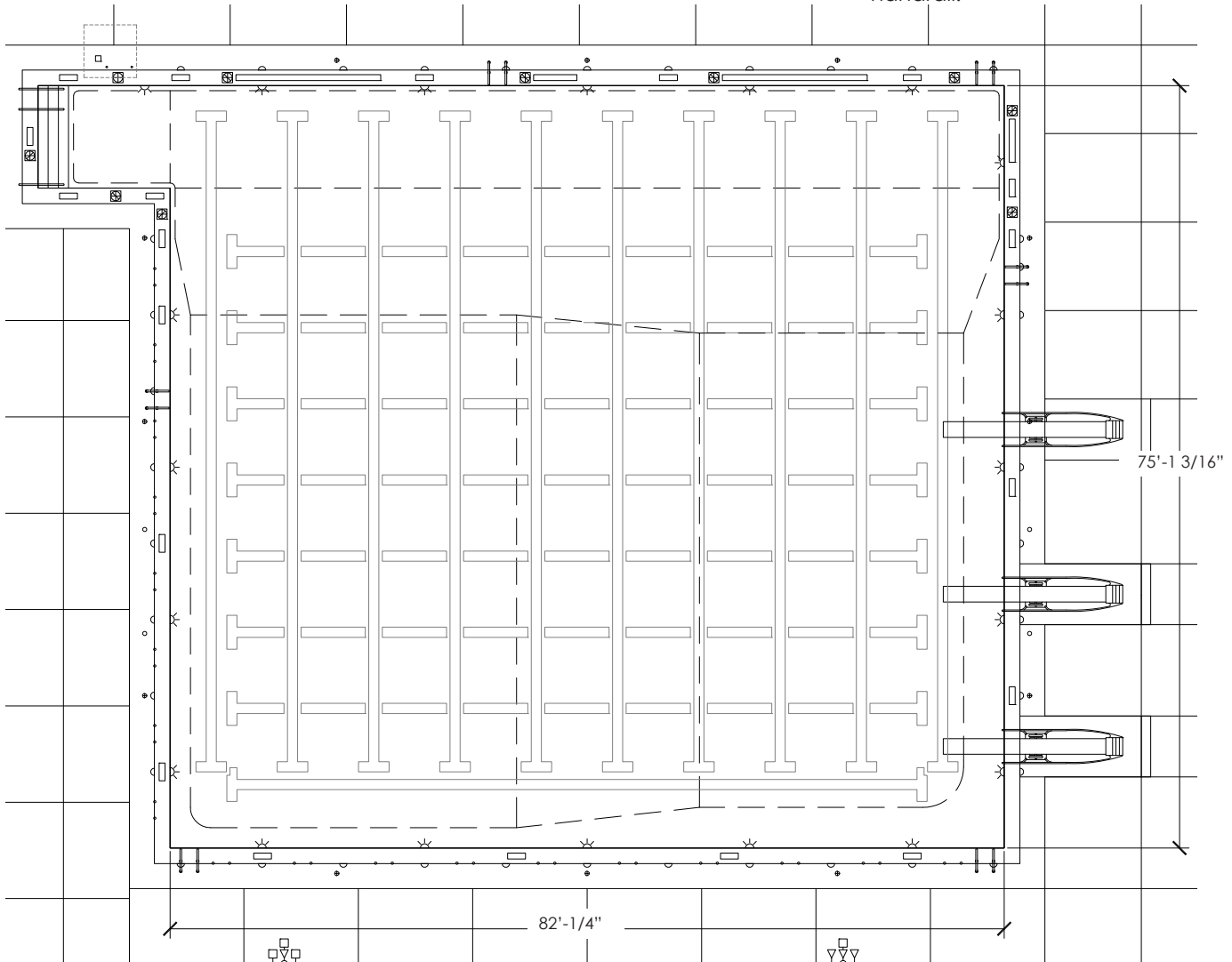


Exhibit 30: Competition/ Recreation Pool

- f. Provide energy efficient LED underwater lighting..
- g. The design of the Competition Pool must accommodate fifty (50) meter and twenty five (25) yard swimming competitions, twenty five (25) yard, twenty five (25) meter, and thirty (30) meter floating cage water polo competitions and twenty (25) yard fixed cage water polo competitions. The fixed cage may be secured to the bottom or the side walls of the pool but should remain removable.
- h. The competition pool may features two (2) one (1) meter diving boards, and one (1) three (3) meter diving board for competitive diving.

- i. The competition pool length and width, as well as the diving boards and diving well, are to be surveyed by a licensed surveyor and certified for competition in accordance with the requirements of United States Swimming⁸.
- j. Provide an aluminum bleacher seating minimum three (3) tier to accommodate four hundred and ninety five (495) spectators shaded with a fabric shade structure
- k. Provide scoreboard and timing system on pool deck for competition pool.

⁸ <http://www.usaswimming.org/>

5.9.2 RECREATION POOLS

- a. Provide a recreation pool minimum of five thousand (5,000) square feet.
- b. The pool should be steel reinforced, pneumatically-applied concrete (shotcrete) with tile lane markings and targets.
- c. Provide a continuous rim-flow gutter system around the entire perimeter.
- d. Provide two means of ADA access into the Recreational Pool: an "Aquatic Access" In-Ground Automatic Turn of 180 Degrees (IGAT-180-AD) hydraulically powered accessible lift, and walk-out stairs with a dual handrail.
- e. Provide underwater lighting.

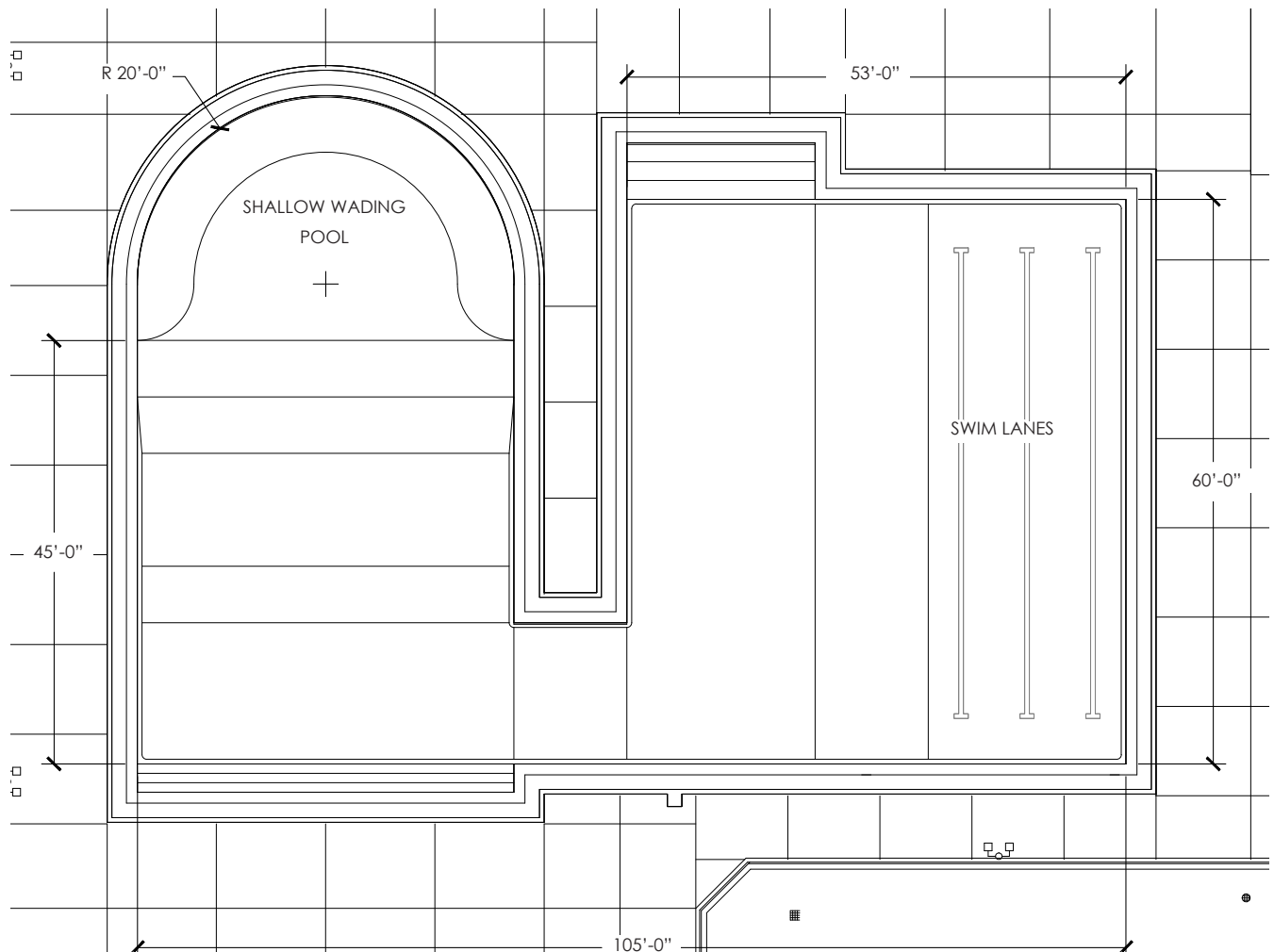


Exhibit 31: Wading/Recreation/Lap Pool

- f. The recreation pool should be designed to have four (4) twenty five (25) yard lap lanes these lanes should be a minimum of sixty feet (60') in length and have depths ranging from three feet (3'-0") to four feet (4'-0").
- g. The recreation pool should have a zero-depth entry area that transitions from the pool deck down to three foot (3'-0") depth (shallow wading area). This shallow wading area and swimming lanes must remain unconnected.
- h. The recreation pool may include wet play elements The wet play elements are to be chosen to appeal to toddlers to older pre-adolescent children.

5.9.3 REGULATORY CONSIDERATIONS

- a. All pool construction must comply with the current County of Los Angeles - Department of Public Health Environmental Health Recreational Waters Program New Swimming Pool Plan Approval Requirements⁹ and the current :
 - California Health and Safety Code
 - California Code of Regulations Title 22.
 - California Building Code Title 24.
 - Virginia Graeme Baker Pool and Spa Safety Act
- b. Refer to California Department of Public Health California Public Swimming Pool Requirements' website³ for information regarding all current Pool Drain Cover Recall and information regarding Anti-entrapment Devices and Systems.

5.9.4 POOL MECHANICAL AND CHEMICAL SYSTEMS (ALL POOLS)

- a. All pool mechanical, chemical sensing and delivery equip-

ment or systems specified must comply with the current County of Los Angeles Department of Public Works Pool Equipment Standardization.

- b. Ensure that a DATA connective line is provided in the mechanical room to allow for remote connection and control.

5.9.5 POOL DECKS (ALL POOLS)

- a. Special consideration should also be given to providing materials and finishes that are highly durable, are easy to maintain, resist deterioration as a result of constant and prolonged exposure to water and chlorine, are vandal and graffiti resistant, and will be resistant to the constant wear and tear of use by the general public for a twenty to thirty (20-30) year expected life.
- b. Decking must be ADA compliant allowing 100% access completely around both competitive and recreational pools.
- c. Deck must be of impermeable slip resistant material and have swift positive drainage away from the pool's perimeter.
- d. Deck must be free of all swimouts, loveseats, recessed areas, benches or projections less than twelve feet (12') in width.

5.9.5.1 Deck Amenities

- a. Provide spectator seating as per the agency's Facility Program.
- b. Provide shading over spectator seating with cantilevered fabric shade structures.

5.9.6 POOL SAFETY FENCING: (ALL POOLS)

- a. The perimeter pool safety fence must be a min. of eight (8) feet in height.
- b. The perimeter pool safety fence

should be constructed from tubular steel and should be galvanized, primed and painted or powder coated.

- c. Provide rolling gate for delivery vehicle access to deliver supplies to the new mechanical room.
- d. All structures and amenities (e.g. benches, waste receptacles, walls) must be clear a minimum of six (6') feet from the perimeter of the pool safety fencing to avoid a "ladder effect".
- e. The spacing between pickets must be less than four inches (4").
- f. The space between the bottom rail and the ground must be less than four inches (4").

5.9.6.1 Safety Fencing Regulatory Considerations

Fencing must comply with the current County of Los Angeles Department of Public Health Environmental Health - Recreational Waters Program - New Swimming Pool Plan Approval Requirements and the most current California Building Code (Title 24).

⁹ http://www.publichealth.lacounty.gov/eh/docs/ep_rw_planreqnew.pdf



5.10 Dog Parks

The County of Los Angeles Department of Parks and Recreation has established Policy and Procedures for Dog Off-leash Areas (Policy and Procedure Number 542 dated 03/30/2010).

5.10.1 SPATIAL CONSIDERATIONS

The location designated Dog Off-Leash Area (DOLA) should be far enough away from residential or commercial land use that the single-event sound of a dog bark would generally be perceived as a background sound or would be screened by traffic noise.

- a. The size of the DOLA will reflect the amount of available land; however, the recommended minimum is one (1) acre and should comprise an area a minimum of three quarters ($\frac{3}{4}$) of an acre for big dogs and an area a minimum one quarter ($\frac{1}{4}$) of an acre for small, timid, older or less mobile dogs.
- b. It must be placed on property that is not currently developed for recreational use and/or in areas of parks that are not heavily used for other recre-

ational activities so as to reduce the potential for conflict.

- c. It must not displace another organized recreational use or unstructured use in a park given the County's limited park resources and need for active recreation and passive open space areas.
- d. It must have sufficient adjacent parking, preferably off street, that does not require users to cross a street; curbside parking is less desirable, but optional.
- e. The topography must be considered, a portion of open play areas in both large dog and small dog parks must be ADA accessible and must not exceed two percent (2%) in any direction.
- f. All structure designs should consider the distinctive qualities and character of the surrounding architectural vernacular and incorporate those qualities into the design where appropriate.
- g. The design of the structures and dog park elements should implement unifying architectural features such as repeating details, colors, and materials.

- h. Organize all shade and seating areas to accommodate long unobstructed running areas.
- i. Long unobstructed running areas should be provided within (both) mulch surfaced and decomposed granite (D.G.) surfaced portions of dog park.
- j. Provide ADA access from ADA parking stalls to DOLA entrances to a shaded area with benches and ADA companion seating.

5.10.2 AMENITIES

Per The County of Los Angeles Department of Parks and Recreation Policy and Procedures for Dog Off-leash Areas the following design elements should be provided for County public dog parks:

- a. Provide a separate large dog DOLA minimum of three quarters ($\frac{3}{4}$) of an acre.
- b. Provide a separate small dog DOLA minimum one quarter ($\frac{1}{4}$) of an acre.
- c. Provide separate double gated pen entrances for each DOLA.
- d. Provide shaded seating.
- e. Consider using shade structures for sites where there are no or few existing shade trees.
- f. Tree canopy should provide a minimum of one hundred percent (100%) shade coverage in the seating areas within ten (10) years.
- g. Provide a minimum size of forty eight inches (48") box trees to meet the goal set in line (f) this section.
- h. Existing or proposed, trees should be grouped to create ample shaded areas and leave ample open space for long unobstructed running
- i. Consider arranging benches in groups under shade shelters and trees

- j. To avoid entrapment of dog's heads, legs or paws select bench with solid seating.

5.10.3 WATER SOURCE

Each separate large and small DOLA must have a minimum of one drinking fountain which includes one standard bowl, one ADA compliant bowl and one canine bowl (with pet strainer).

- a. Drinking fountains must be powder coated with stainless steel bowls and sand filters.
- b. Provide Irrigation (for planted and mulched areas only). (Mulched areas must be irrigated daily for a quick wash down to prevent dust and odors from accumulating).
- c. Each park will be equipped with a standard locking quick coupler for each five thousand (5,000) sq. ft.

5.10.4 DOG WASTE DISPOSAL

- a. Provide biodegradable bags or biodegradable cardboard scoops or shovels and covered cans for every two thousand (2000) square feet of DOLA.
- b. Provide biodegradable bags or biodegradable cardboard scoops or shovels and covered cans at all entrances and exits of DOLA.

5.10.5 SURFACE

- a. The preferred surface material for the DOLA's sunny open play areas is unstabilized decomposed granite (D.G.). The D.G. can be of varying size but should not be greater than one quarter-inch (.25 inches) in size.
- b. The preferred surface material for shaded areas (beneath all trees) should be cedar wood "Walk on Chips", the particle sizes ranging from three eights inch to two inches ($\frac{3}{8}$ "-2"). Cedar wood repels, kill or inhibits insects like fleas, flies, termites,

cockroaches, cloth-eating moths, carpet beetles and ants while remaining completely harmless to humans and animals.

- c. The double gated pen entrance area should be surfaced with concrete.
- d. The D.G. surfacing should be installed upon entering the DOLA, to the extent of providing an ADA accessible play area of equal proportion in relationship to the mulched play areas. This may be limited by the constraints of the site.
- e. The D.G. will be installed six inches (6") in depth and all installation should be based on manufacturer's specifications.
- f. Six inches (6") concrete curbs should be used as edging for the D.G.
- g. All necessary drainage systems should be installed prior to the installation of the D.G.

5.10.6 FENCING

- a. The fencing type should be galvanized or vinyl coated chain-link fencing.
- b. The standard fence should be a minimum of six feet (6') above finish grade.
- c. The footings should be buried to a depth of eighteen inches (18").

- d. To prevent dog from digging out of the DOLA, a fence barrier (such as snake fencing) should be buried to a depth of minimum six inches (6") between all footings at all locations except at access points.
- e. Alternative installation; each fence panel should be tied to a bottom rail and a twelve inch (12") mow strip will be provided at the base of the entire length of fencing except at access points. The bottom of fencing and bottom rail should be a maximum one inch (1") above the mow curb.

5.10.7 ENTRY GATES

- a. Each DOLA will have a double gated pen entrance. These gates will be the same height as the fence. **Exhibit 32**
- b. Each entry must comply to the most current ADA requirements.
- c. Each gate will open (one way) into the pen.
- d. Both gates should be self-closing, self latching and lockable.
- e. The pen should be sized a min. of five by eight feet (5' x 8') or forty (40) square-feet. This enclosure serves as a calming area, this is where the user will remove the leash from the dog prior to entering the DOLA.

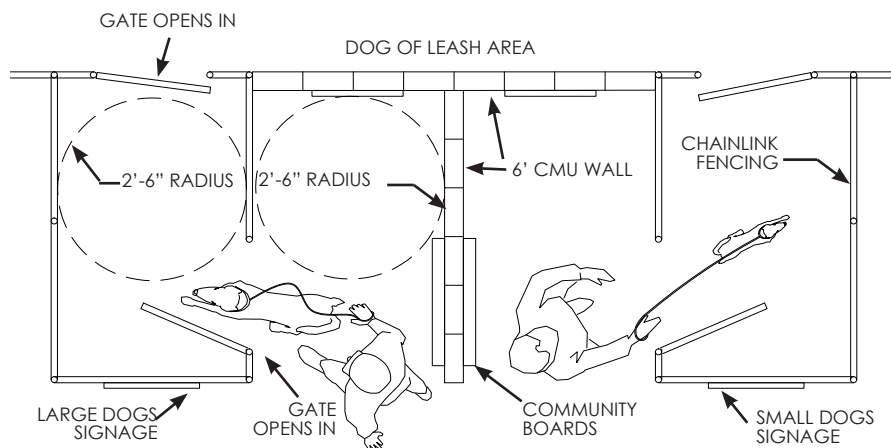


Exhibit 32: Dog Park Double gated Entry to DOLA

- f. Provide a solid CMU wall between entrances. This area serves as a waiting zone to the entrance of the DOLA.
- g. The dog park entrance and gates should be far from dog activity areas.
- h. Provide a second gated DOLA entrance for maintenance vehicles.
- i. This entry will be approximately sixteen feet (16') wide to allow full access to the site.
- j. DOLA maintenance gate location should be near the parking lot.

5.10.8 RUNOFF MITIGATION

- a. DOLA should retain 100% dry weather and storm-water runoff through the use of gravel or pre-manufactured sumps.
- b. All run-off on impermeable surfacing must be drained to a sumps or sloped toward the permeable surfacing and allowed to infiltrate.

5.10.9 SIGNAGE

- a. Each dog park should have permanent signs, stating the hours of operation, rules, and regulations for the DOLA and contact information for the Department of Parks and Recreation.
- b. Each dog park should have an outdoor enclosed locking letter board to display operating, and maintenance hours. This board must be placed where it is easily seen by large dog and small dog DOLA visitors.
- c. Consider adding community bulletin boards.

5.10.10 ADDITIONAL AMENITIES

Additional amenities such as Agility Equipment may be added with the approval of the Department of Parks and Recreation agency having jurisdiction in the area of the dog park.

Section 6 Passive Recreational Areas

A passive recreation area may be defined as an open, unobstructed area used for non-programmed recreation activities.

6.1 Open Play Areas

Where possible, passive open play areas should remain unobstructed by trees, to support activities such as throwing a ball, a frisbee, and/or flying kites.

- a. Locate passive open play areas adjacent to picnic and children's play areas.
- b. Provide shade trees at the perimeter of open play areas.
- c. Provide regulatory signs that describe the permitted uses within open play areas.
- d. Passive open play areas should not slope greater than five percent (5%).

6.2 Group Picnic Areas

- a. Small group picnic areas should accommodate twenty-five to fifty (25-50) people.
- b. Large group picnic areas should accommodate fifty to one hundred (50-100) people.
- c. Provide a shade shelter for all group picnic areas.
- d. Provide lighting within shade shelters where indicated by the facility program.
- e. Provide one (1) barbecue grill for every two (2) picnic tables, or one (1) double barbecue grill for every four (4) picnic tables.
- f. All barbecue grills must be ADA accessible and have a clearance of two-feet six-inches (2'-6") at each side of grill.

- g. Provide a counter top equipped with a sink and keyed faucet where indicated by the facility program.
- h. Provide a keyed quick coupler adjacent to the group picnic area to facilitate wash-down by park maintenance staff.
- i. Provide security fencing around group picnic areas for rental purposes, where indicated by the facility program.
- j. Provide signs with picnic area name or number for identification and rental purposes.
- k. Provide restrooms within one-hundred fifty feet (150') of group picnic areas.
- l. All group picnic areas must be ADA accessible. Any exception must have prior approval of the Department.
- m. Provide a minimum of two picnic tables per acre for each of the first three (3) acres, then one (1) picnic table per acre thereafter.
- n. All individual picnic areas should be ADA accessible. Any exception should have prior approval of the Department.
- o. Provide 2 ground fault circuit interruptors (GFCI) with water proof cover at small group picnic areas; provide 4 GFCI with water proof cover at large group picnic areas or as directed by the Field Agency.

Section 7

Park Furnishings

On January 16, 2007, the County Board of Supervisors adopted a Countywide Policy instructing all County Departments to implement the County's Energy and Environmental Programs.

County Departments have been directed to:

- a. Ensure that all park furnishings are products of "Green" purchasing or Environmentally Preferable Purchasing (EPP), which effectively minimize negative environmental impacts over their life cycle.
- b. Purchase products that include recycled and natural materials content are durable and long lasting. They conserve energy and water, reduce greenhouse gas emissions, use unbleached or chlorine free manufacturing processes, and use wood from sustainable harvested forests.
- c. Reference the Green Seal¹⁰ web site for product and service information regarding examples of EPP products.
- d. Ensure that contractors and vendors are familiar with the County's initiative to purchase environmentally preferred goods, products, and services.

10 Green Seal Corporate Office 1001 Connecticut Avenue, NW Suite 827 Washington, DC 20036-5525 USA Phone: 202-872-6400 Fax: 202-872-4324 Email: greenseal@greenseal.org

- e. Provide consistency in the design character of park furnishings including park signs, light fixtures, drinking fountains, trash receptacles, benches, etc.
- f. All park furnishings must be securely anchored to paving or installed in footings.
- g. Provide skateboarding stops on edges of concrete benches and low seat walls.

7.1 Picnic Tables

- a. Picnic tables should be a minimum of six feet (6') long.
- b. Each picnic table should be located in the center of a four inch (4") thick reinforced concrete pad, minimum size of ten feet by nine feet (10' x 9'). Maximum grade two percent (2%).
- c. All picnic table should be anchored into concrete per manufactures specifications.
- d. Provide a four foot (4') clearance between each picnic table or other obstructions.
- e. All picnic tables should be ADA compliant, and accessible from ADA path of travel. Any exception should have prior approval of the Department.
- f. Picnic tables at ADA accessible locations should have one wheelchair accessible end.

7.2 Benches

- a. Provide benches at key locations throughout the park including at the park entry, at regular intervals along the main circulation path, singular and grouped to support gathering, for viewing activities or vistas, and at recreational facilities such as organized play areas, tennis courts, etc. for supporting the visual supervision of children.
- b. The minimum length of a seating section should be six feet (6').
- c. Whenever possible, situate benches with back toward a wall, landscape planting, or trees to increase a sense of user security.
- d. Set benches back from circulation paths of travel to reduce pedestrian obstructions.
- e. Benches should be located to maximize shade opportunities in the summer and sun exposure in the winter.
- f. Benches are required at all playgrounds and athletic courts.
- g. Benches should be evenly distributed throughout the park.
- h. Benches should be located adjacent to a path of travel and should be ADA accessible with adjacent ADA companion seating as illustrated in **Exhibit 33**.
- i. Provide benches designed with a center armrest or center break to discourage patron sleeping.
- j. Benches can be free standing or integrated into walls or other design features.
- k. Benches should be permanently installed unless otherwise instructed by the facility program.

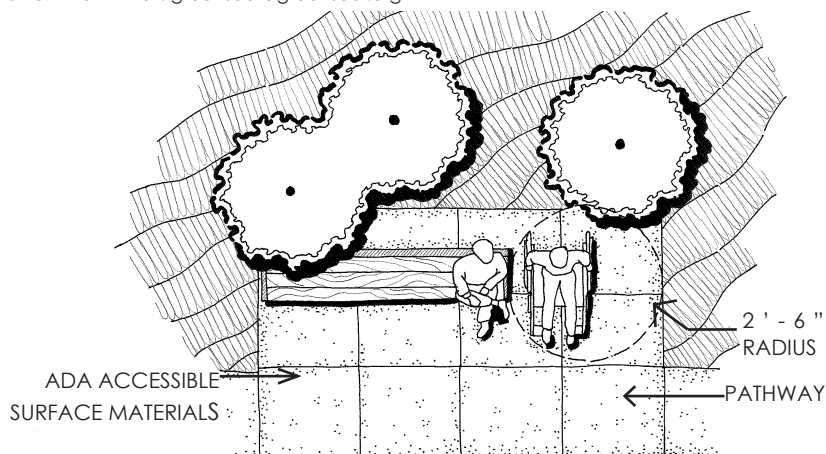


Exhibit 33: Park Bench with Adjacent ADA Companion Seating

7.3 Drinking Fountains

- a. All drinking fountains must be ADA compliant and positioned so that pathways are not obstructed by the drinking fountain user.
- b. One (1) standard and one (1) ADA compliant drinking fountain are required outside of each restroom building.
- c. Drinking fountains are required near (with a clear line of sight from) athletic courts, group picnic areas, restrooms, sports facilities, and children's play areas.
- d. All drinking fountains located within close proximity to children's play areas should be visible from parent seating areas.
- e. All drinking fountains should be vandal resistant.

7.4 Bicycle Racks

- a. Bicycle racks should be located near park amenities accessible by vehicular roadways.

7.5 Trash Receptacles And Hot Coal Receptacles

- a. Provide an adequate number of trash receptacles throughout the park. At a minimum, the trash receptacles should be located near all parking areas, at the entrances to major buildings and restrooms, playgrounds, picnic areas, spectator areas, and at active recreation areas.
- b. Hot coal receptacles should be placed near all picnic areas having barbecue grills.
- c. Trash receptacle design should match park furnishings, wherever feasible.
- d. Place all trash and hot coal receptacles on concrete pads.

Concrete pads must have a twelve inch (12") unobstructed perimeter on all sides for ease of mowing.

- e. Provide trash and recycle bins as indicated by the facility program.

7.6 Barbecue Grills

- a. Provide one (1) barbecue grill for every two (2) picnic tables.
- b. All barbecue grills at ADA accessible sites must be wheelchair accessible.
- c. Group and individual barbecue grills should be in-ground mounted pedestal type with a side utility shelf. Firebox size should be approximately 20" wide x 15" deep x 10" high, and is constructed with a minimum of three sixteenth inch ($\frac{3}{16}$ ") thick steel.
- d. Provide built-in barbecues per the facility program.

7.7 Additional Site Features

- a. Boulders may be used to define pedestrian or vehicular edges and boundaries, as well as for drainage rip-rap, and in dry stream swales.
- b. Boulders may also be used for casual seating, decorative effects, etc.
- c. Boulders should not be placed in active recreation or open play areas, play area fall zones, and/or in any area where they would conflict with recreation activities or create a physical hazard.

7.8 Park Signage

- a. Each park should have a park identification sign at its main entry with the park facility name and appropriate County seals. The district supervisor's name should be placed in a replaceable rider.

- b. Park identification, information, and regulatory signage should be uniform in design and complement the overall park design.
- c. Provide a park information board and/or kiosk to promote park events and activities, as indicated by the facility program.
- d. Provide an educational kiosk as indicated by the facility program.
- e. Signage should be kept to the minimum sizes necessary to clearly direct and inform the park users.
- f. Any graphic/interpretive element displays with narrative information should be located where best viewed by a seated individual, the written information should also be provided in braille and must comply with California Code of Regulations, Title 24, Chapter 11B.

7.9 Park Dumpsters

- a. Locate dumpsters away from park users, to minimize offensive odors.
- b. Provide a level access approach, and a minimum ten-foot by twelve feet (10' x 12') concrete pad for each dumpster.
- c. All dumpster pads must be positioned to allow the trash truck to approach the containers head on. Ensure that the turning radius, truck length, and angle of approach are adequate.
- d. Maintain a twelve foot (12') wide opening to the enclosure, and provide gate stops to secure the gates in an open position.
- e. Provide a securable and gated enclosure around the dumpster pad. Maintain a ten foot by 12 foot (10' x 12') clearance within the enclosure.

- f. Dumpster pads should be positioned with their long axis perpendicular to the vehicular truck access. See **Exhibit 18** page 23.

7.10 Fencing

- For new park projects, refer to the project facility program for fencing types and their proposed locations.
- For park refurbishment projects, new fencing should match existing park fencing unless otherwise specified in the facility program.
- Provide a one foot (1') wide concrete mow strip under all tubular steel and chain link fencing placed in landscaped areas.

Section 8 Landscaping

Water conservation is an important focus in the development of park landscapes. These guidelines address water conservation through the use of drought tolerant plant materials and the design of efficient irrigation systems.

The Appendix of this document includes three plant lists:

- Preferred Plant List - Potable Water
- Preferred Plant List - Recycled Water
- Do Not Use Plant List

The Preferred Plant Lists consist of drought tolerant plant material known to perform well in a park environment. This list may be augmented by the designer to achieve the water conservation and design objectives of each park project. The use of plants beyond those included on the Preferred Plant List will be reviewed for suitability by County Staff during the design review process.

The Do Not Use Plant List consists of plant material considered inappropriate for County parkland. These plants may be invasive, short lived, delicate, require intensive maintenance or a strong attractant to bees. The use of plants on this list will not be allowed.

ate for County parkland. These plants may be invasive, short lived, delicate, require intensive maintenance or a strong attractant to bees. The use of plants on this list will not be allowed.

8.1 Planted Areas

8.1.0 SUSTAINABILITY CONSIDERATIONS

- The consultant should perform an analysis of The U.S. Green Building Council's (USGBC) the Sustainable SITES Initiative program criteria as it applies to the design landscape projects.
- All new park landscapes including those less than 2,000 square feet should be designed to meet the criteria of U.S. Green Building Council SITES Rated Silver Certificate For New Landscapes.
- All park landscape refurbishment projects including landscapes less than 2,000 square feet should be designed to meet the criteria of U.S. Green Building Council SITES Rated Silver Certificate For New Landscapes.

8.1.1 DESIGN CONSIDERATIONS

8.1.1.1 General

- Landscape designs must be sensitive and appropriate for the project site to minimize disruption to existing plant habitats. Use climate appropriate drought tolerant plants to support the design intent. Planting designs should incorporate biodiversity, and water conservation.
- All designs should identify the most appropriate areas to include shrubs and ground cover plant materials, to maximize water conservation. To accomplish this, a Parkland Activity Use Analysis is a useful tool for determining which areas are the most suitable for shrubs and ground covers. **Exhibit 34** illustrates an example of a Parkland Activity Use Analysis. This analysis identifies:
 - Active Sports Areas (turf required)
 - Passive Recreation Areas (turf typically required)

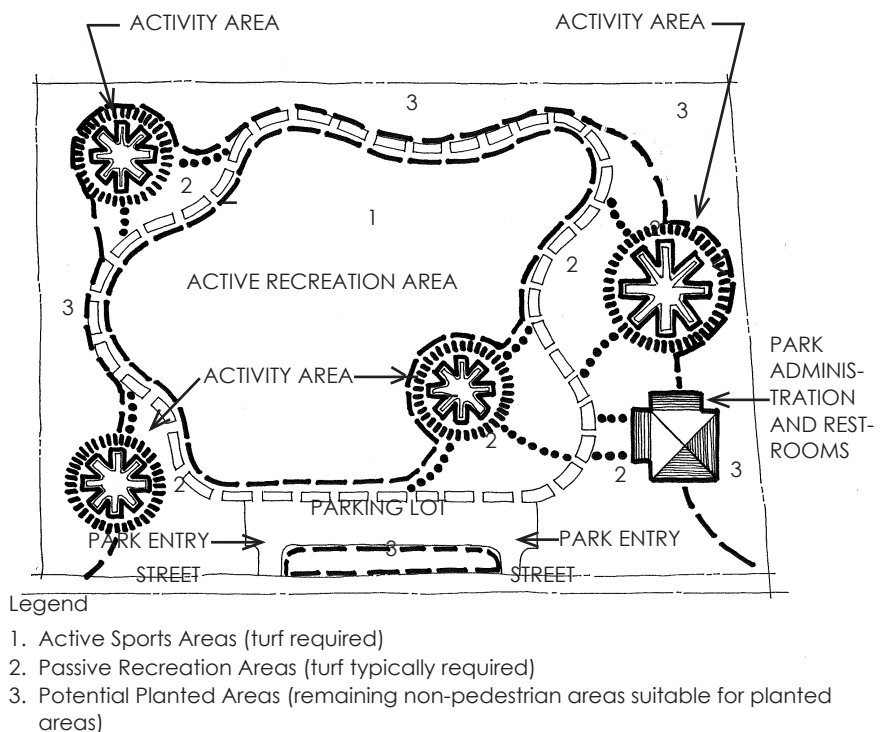


Exhibit 34: Parkland Activity Use Analysis Example

- Potential Planted Areas (remaining non-pedestrian areas suitable for planted areas)
- c. Use plant materials and trees around buildings to create microclimates, lower energy consumption, and reduce costs associated with indoor energy needs.
- d. To reduce the amount of radiant heat generated from the reflection of hardscape surfaces (urban heat island effect), provide trees or vegetated structures to shade walkways, roofs, or parking lots.
- e. Select plant materials that promote and support the regional identity to the park location.
- f. Park designs may include low maintenance naturalized areas. Pedestrian paths surfaces may be mulch or decomposed granite, four inch (4") in depth. Vehicular paths may be decomposed granite six inch (6") in depth.
- g. Natural and naturalized areas may accommodate passive recreation activities such as picnicking, biking, nature trails with interpretive signage and rest areas, or similar activities.
- h. Naturally occurring landscape features including tree groves, dry streambeds, rock features, and earth forms are desirable design elements in new park designs, and enhance the natural character of the site. These features should be protected if they are existing.
- i. California Native species should be used in parks having the following natural settings: special use sites and corridors, graded slopes in environmentally sensitive areas, riparian areas, wetland and watershed rehabilitation areas, wildlife habitat restoration areas, post-fire rehabilitation areas, and demonstration gardens.
- j. Locate vegetated bio-swaes outside of active recreation areas to achieve stormwater management goals for the park site.
- k. Foundation planting may be incorporated where planted areas occur adjacent to buildings, as illustrated in **Exhibit 35**. These areas may include raised or in-ground planters.
- l. Control and remove invasive plant species to minimize damage to local plant ecosystems.
- m. Mitigate potential fire hazards in designated fire threatened areas per County Fuel Modification Codes¹¹.
- n. When designing planting areas adjacent to public streets, design consideration should be given to compliment the existing planting design within the right-of-way, to maintain design continuity.
- o. In areas where security is an issue, visibility into and out from the park should remain unobstructed by landscape plant materials.
- p. A combination of dense landscaping, screen walls, berms and/or mounding may be used to screen service, loading, maintenance and storage areas, trash enclosures, utility cabinets, and other similar elements.
- q. Planter areas should be planted with low maintenance, drought tolerant, hardy plants.
- r. To support security and visual surveillance, shrubs planted along property line fences should not grow above eight feet (8') high, while shrubs planted in open areas should not grow over four feet (4') high.
- s. Provide a two inch (2") layer of organic mulch (free of weed seed) to all planted areas.
- t. Decomposed granite used as mulch for planting areas should be unstabilized.

8.1.1.2 Turf

- a. Turf types that require less mowing and water should be selected. Plant all sunny open turf areas and recreation fields with warm season hybrid bermuda grasses, such as tifway or tifgreen sod, when possible.

¹¹ <https://www.fire.lacounty.gov/forestry-division/forestry-fuel-modification/>

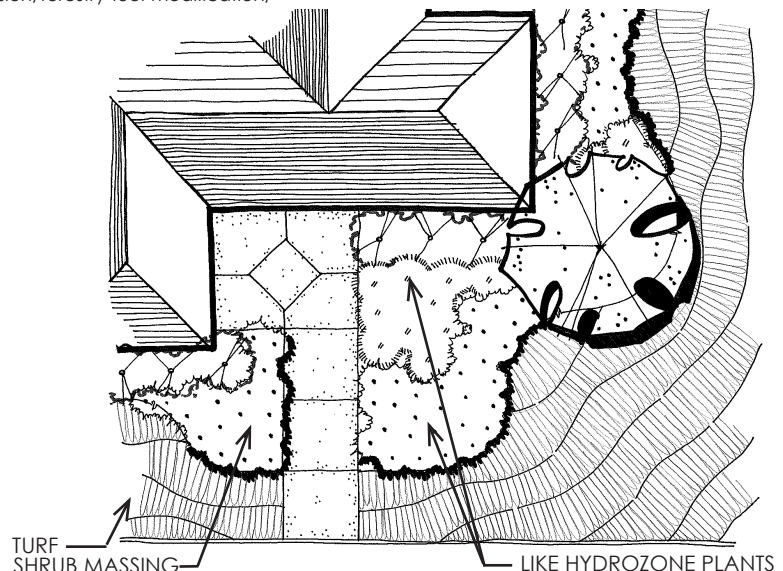


Exhibit 35: Building Foundation Planting Example

- b. Turf areas should be graded no steeper than a 5:1 slope for easy mowing.
- c. Separate planted areas from turf areas with a six inch (6") wide poured-in-place concrete mow strip, unless otherwise directed by the facility program.

8.1.1.3 Shrubs

- a. Shrubs should be selected and located with consideration for their function and size at full maturity to minimize pruning, and maintain the natural characteristics of the selected shrubs.
- b. Use only non-invasive plants that are nursery grown or legally harvested.

8.1.1.4 Trees

- a. Preserve all oak trees, native sycamores and other trees designated as natural resources by local, County, State or Federal entities.
- b. Medium canopy trees with non-invasive roots should be specified for areas adjacent to paved circulation paths and parking, to provide shade, reduce heat build-up, and minimize glare.
- c. Trees planted in turf areas adjacent to the street should be set back a minimum of six feet (6') from the curb face.
- d. Trees planted five feet (5') or less from hardscape surfaces require root barrier protection. The root barrier should be placed adjacent and parallel to the hardscape, and span a minimum of ten feet (10') in both directions along the pathway from the center of the tree.

8.1.2 PLANT MATERIAL

Lists of preferred plant materials for use in County Parks have been provided in the Appendix of this document. These lists have been developed as a design aid and may be augmented by the designer to achieve the water conservation and design objectives for the park.

- a. Prior to developing a Planting Plan verify the approximate date that the existing or new park is expected to be connected to a recycled water mainline. This information can be obtained from the Department's Planning and Development Agency¹².
- b. If the park is more than two (2) years away from connection to recycled water, the Potable Water Plant List will assist the designer in preparing an appropriate plant palette.
- c. If the park is within two (2) years of connection to recycled water, the Recycled Water Plant List will assist the designer in preparing a successful plant palette.
- d. Group plant materials with similar water requirements into common hydrozones.
- e. Do not use invasive plant materials. Reference the "Do Not Use Plant List" located in the appendices for invasive plant species listed for your park site location. For further information reference the "California Invasive Plant Council Invasive Plant Inventory" at Cal-IPC.org.¹³
- f. Do not use plants that require greater than moderate water usage as defined in Water Use Classification of Landscape Species list (WUCOLS IV) as referenced in "A Guide to Estimating Irrigation Water Needs of Landscape Plantings in California" (WUCOLS IV)¹⁴.

¹² Department of Parks and Recreation Planning and Development Agency: (213) 639-6706

¹³ <http://www.cal-ipc.org>

¹⁴ <http://ucanr.edu/sites/WUCOLS/>

- g. All planting designs should achieve the water conservation requirements of the California Code of Regulations Title 23. Waters Division 2. Department of Water Resources Chapter 2.7. Model Water Efficient Landscape Ordinance, adopted by the County of Los Angeles.

8.1.2.1 Potable Water Plant Materials

The plant materials list included in the appendix consists of drought tolerant and low to moderate water-use plants that are appropriate to use in County facilities. The preferred plant materials (indicated with an X) are hardy. If the park is irrigated with recycled water, cross reference the plant palette with the Recycled Water Plant Materials List.

8.1.2.2 Recycled Water Plant-Materials

For landscapes irrigated with water having high levels of salinity, an integral element for evaluating biological criteria will include assessing the plant material species for their tolerances to salinity. Investigate the salinity-related parameters of your landscape's irrigation water and soil. Reference the "Salinity Management Guide,"¹⁵ and "Salt Management Guide for Landscape Irrigation with Recycled Water in Coastal Southern California a Comprehensive Literature Review"¹⁶. Evaluate the soil salinity parameters by:

- a. Obtaining salinity-related parameters for irrigation water, by either requesting a report from the water jurisdictional agency serving the park, or submitting water samples to a commercial analytical laboratory, and by;
- b. Collecting soil samples from the subject landscape and submitting them to a commercial soil analysis laboratory, along with analytical information received from the water provider.

¹⁵ The "Salinity Management Guide" is available on an interactive, user friendly CD-ROM. For a complimentary copy of the CD please contact Tammy Russo at trusso@nwri-usa.org

¹⁶ <http://www.salinitymanagement.org/>

Table 10: Sample Hydrozone Matrix

Hydro-zone	Irrigation Valve Number	Water Needs	WUCOLS IV Plant Factor	Square footage	GPM	Precipitation Rate
A	1	VL (Very Low)	.1	3200	25	.75
B	3	L (Low)	.3	4565	36	.76
C	4	M (Moderate)	.5	3570	22	.59
D	2	H (High)	.8	2225	20	.89

- c. Submit all laboratory recommendations with the construction documentation package.

8.1.3 PLAN REQUIREMENTS

The Department of Parks and Recreation must comply with California Code of Regulations Title 23 Waters Division 2. Department of Water Resources Chapter 2.7. Model Water Efficient Landscape Ordinance which has been adopted by the County of Los Angeles Unincorporated Areas. For the landscape plan requirements in the County's incorporated areas, consult your City's Department of Building and Safety for the City's most current code requirements.

Applicability of California's Model Water Efficient Landscape Ordinance

- New construction projects with an aggregate landscape area equal to or greater than five hundred (500) square feet requiring a building or landscape permit, plan check or design review (parks are not exempt).
- Rehabilitated landscape projects with an aggregate landscape area equal to or greater than two thousand five hundred (2,500) square feet requiring a building or landscape permit, plan check, or design review (parks are not exempt).

General Requirements

- Provide a list of plant materials proposed for the project. The plant legend must include the following information:

- Plant symbol for trees shrubs, groundcover and vines
 - Genus and common name
 - Container size
 - Quantity
 - Plant spacing
 - Plant factor (based on WUCOLS IV)
- Include a completed Water Efficient Landscape Worksheet, or a Hydrozone Matrix. Refer to **Table 10** for an example of a Hydrozone Matrix.
 - The Water Efficient Landscape Worksheet, is found in Title 23 Waters of the California Building Code Division 2. Department of Water Resources Chapter 2.7.
 - The Water Efficient Landscape Worksheet or Hydrozone Matrix must include information on the plant factor, irrigation method, irrigation efficiency, and area associated with each hydrozone.
 - California's Model Water Efficient Landscape Ordinance, the "Water Efficient Landscape Worksheet" and a "Water Budget Calculator for New and Rehabilitated Non-Residential Landscapes" are also found on the California Department of Water Resources CA.gov¹⁷

¹⁷ <http://www.water.ca.gov/wateruseefficiency/landscapeordinance/>

8.1.4 TREE PROTECTION

Mature existing trees are significant community resources due to their cultural, aesthetic, or historic relevance. To preserve these resources, a tree protection zone must be included on all demolition, construction or grading plans and implemented during construction.

8.2 Irrigation

The Department of Parks and Recreation must comply with California Code of Regulations Title 23 Waters Division 2. Department of Water Resources Chapter 2.7. Model Water Efficient Landscape Ordinance which has been adopted by the County of Los Angeles Unincorporated Areas. For the landscape plan requirements in the County's incorporated areas, consult your City's Department of Building and Safety for the City's most current code requirements. Applicability of California's Model Water Efficient Landscape Ordinance

8.2.1 NEW IRRIGATION SYSTEMS DESIGN CONSIDERATIONS

- The irrigation system should be designed to prevent runoff, drainage from low head, over spray, and other similar inefficient conditions where irrigation water flows onto non-targeted areas, such as adjacent properties,, paved areas, roadways or structures.
- Irrigation head spacing should be designed to provide one hundred percent (100%) coverage and should not be farther than the maximum design radius for the specified nozzle.
- All irrigation systems should be designed to allow for summer-peak water amounts to be applied between the hours of 10 p.m. and 6 a.m. Daytime watering should be limited to seed germination, plant establishment, and turf renovation.

<http://www.water.ca.gov/wateruseefficiency/landscapeordinance/>

- d. The irrigation system should be designed to ensure the dynamic pressure at each irrigation head is within the manufacturer's recommended pressure range for optimal performance.
- e. When designing a new irrigation system for an existing park the static water pressure, dynamic or operating pressure, and the water supply flow rate should be measured at the point of connection by the water purveyor. This information should be obtained during the design phase and should also be field verified by the Contractor prior to installation.
- f. Relevant information such as soil type and infiltration rate should be determined and referenced when designing irrigation systems.
- g. The design of the irrigation system should conform to the hydrozones delineated on the landscape planting plan.
- h. The irrigation system must be designed and installed to meet the irrigation efficiency criteria as described in Title 23 Waters Division 2, Department of Water Resources Chapter 2.7, Model Water Efficient Landscape Ordinance
- i. Contact the local water purveyor for peak water operating demands on the water supply system, or water restrictions that may impact the efficiency of the irrigation system.
- j. In mulched planting areas, the use of low volume irrigation is required to maximize water infiltration into the root zone.
- k. Overhead irrigation is not allowed on narrow or irregularly shaped areas including turf areas less than ten feet (10') in width.
- l. Overhead irrigation is not allowed within twenty four inches (24") of any impermeable surface.
- m. Bubblers are the preferred irrigation emitter in planting areas with conditions as described in items k and l, this section.
- n. The surfacing of the setback may be mulch, gravel, or other porous material with no irrigation. These restrictions may be modified if:
 - The landscape area is adjacent to permeable surfacing and no runoff occurs; or
 - The adjacent impermeable surfaces are designed and constructed to drain entirely to landscaping.
- o. Slopes greater than twenty-five percent (25%) should not be irrigated with an irrigation system having a precipitation rate exceeding 0.75 inches per hour. This restriction may be modified if the landscape designer specifies an alternative design or technology, and clearly demonstrates that no runoff or erosion will occur.
- p. Trees should be placed on irrigation control valves separate from shrubs and groundcover and be irrigated by a "Root Watering System".
- q. No additional irrigation is required for trees planted in turf areas.
- r. Individual hydrozones that mix high, moderate or low water-use plants are not permitted.
- s. No drip irrigation is permitted except on narrow or irregularly shaped areas including turf areas less than ten feet (10') in width as required by Title 23 Division 2 Chapter 2.7 Model Water Efficient Landscape Ordinance .
- b. Reduced Pressure Backflow Prevention device
- c. Flow Sensor
- d. Master Valve
- e. Booster Pump (where necessary)
- f. Pressure Regulator (where necessary)
- g. Manual Shut-Off Valves
- h. Weather Based Irrigation Controller
- i. Sensors (rain, freeze, wind, etc)
- j. Remote Control Valves
- k. Spray Heads and Bubblers for Shrub Areas
- l. Triple Swing Joints in Turf Areas
- m. Double Swing Joints in Planting Areas
- n. Check Valves
- o. Quick Couplers
- p. Pipes and Fittings

The design criteria for the aforementioned equipment is described as follows:

- a. Water Meter - If a park has a water meter specifically dedicated to the landscape irrigation system, water bills can be examined to evaluate water use.
- b. Reduced Pressure Backflow Prevention Device - This device must be included on all irrigation systems.
- c. Master Valve - This device is installed after the Backflow Prevention Device on the water supply line and is wired to a "master valve circuit" on the irrigation controller. If a leak should occur or a valve does not close, the master valve will shut off the water to the system. This device must be included on all irrigation systems.

8.2.2 EQUIPMENT

All new irrigation systems should include the following components:

- a. Dedicated Irrigation Water Meter

- d. Flow Sensors - The installation of flow sensors which detect and report high water flow conditions. This device must be included on all irrigation systems..
- e. Irrigation Pump or Pump Stations - An Irrigation pump is used if the static water pressure is below the required dynamic water pressure of the irrigation system, , install where required..
- f. Pressure Regulator - An inline regulators is used to maintain the desired water pressure and is necessary when there is pressure fluctuation that will damage the system, install where required.
- g. Manual Shut off Valves - These valves (such as a gate valve, ball valve, or butterfly valve) are located along the main-line, to create isolated repair zones and to minimize water loss in case of an emergency (such as a main line break) or routine repair. This device must be included on all irrigation systems.
- h. Smart Controller - All County park irrigation systems must be installed with weather based irrigation controllers. Controller installations must be by a certified installer. This device must be included on all irrigation systems.
- i. Sensors - Sensors (rain, freeze, wind, etc.), are either integral or auxiliary, that suspend or alter irrigation operation depending on weather conditions and evaporation rates. This device must be included on all irrigation systems.
- j. Remote Control Valves - Each hydrozone (similar site, slope, sun exposure, soil conditions, and plant materials with similar water requirements) must be irrigated with a separate remote control valve.
- k. Spray Heads - Spray heads and other emission devices should have matched precipitation rates, unless otherwise directed by the manufacturer's recommendations. These devices should be selected based on what is appropriate for the plant type and their sizes at maturity within a specified hydrozone.
- l. Bubblers - The use of low volume bubbler irrigation systems is encouraged for shrub and groundcover planting. All low volume irrigation should be installed with double swing joints on risers.
- m. Double Swing Joints - All spray heads adjacent to high pedestrian traffic areas should be equipped with double swing joints or other riser and pop-up head protection components.
- n. Check Valves - Check valves or anti-drain valves should be required at all low points in the irrigation system. Check valves should also be used for all slope irrigation systems.
- o. Quick Couplers - Provide irrigation quick-couplers outside the perimeter of play areas. The distance between quick couplers should be a maximum of fifty feet (50'). Provide quick couplers as directed by the facility program.
- p. Pipes and Fittings - Upstream of remote control valves (main lines): For pipe sizes up to and including one and one half inch (1½") pipe, use schedule forty (40) PVC or schedule eighty (80) PVC for exposed pipes such as fixed risers. For two inch (2") pipe up to and including four inch (4") pipe, use class three hundred fifteen (315) PVC or schedule eighty (80) PVC. Downstream of remote control valves (lateral lines): For pipe sizes up to and including one and one half inch (1½") pipe, use schedule forty (40) PVC. For two inch (2") size and larger use, class three hundred fifteen (315) PVC pipe. Use schedule eighty (80) PVC pipe for sleeves.

Table 11: Conforming Irrigation Watering Schedule

Month	Weekly ET _o	Valve #1 (Plant Factor - 0.2) Cycles per week - 3	Valve #2 (Plant Factor - 0.5) Cycles per week - 3	Valve #3 (Plant Factor - 0.3) Cycles per week - 3
		Min. per cycle below	Min. per cycle below	Min. per cycle below
Jan	.51	4	8	5
Feb	.63	4	10	6
Mar	.86	5	13	8
Apr	1.09	7	17	10
May	1.28	8	20	12
Jun	1.35	8	21	13
Jul	1.44	9	22	14
Aug	1.37	9	21	13
Sep	1.16	7	18	11
Oct	.9	6	14	9
Nov	.6	4	9	6
Dec	.44	3	7	4

8.2.3 PLAN REQUIREMENTS

- a. The Irrigation Plan should include a complete twelve (12) month "Conforming Irrigation Watering Schedule" . This schedule must include the following information: See Conforming Irrigation Watering Schedule example on **Table 11**.

- Valve Number
 - Month
 - The average weekly evapotranspiration (ET_o) of each month in the project's location.
 - The zone's plant factor found in WUCOLS IV
 - Number of watering days per week (# of Cycles)
 - Minutes per cycle per valve. The amount of minutes is based on: the precipitation rate and the plant factor of each valve (zone) and the average ET_o rate of each week of the month.
- b. Check watering schedule for peak month to insure irrigation can take place with the watering window of ten (10) PM to six (6)AM , eight hours.
- c. All irrigation plans must require the contractor to provide "As-Built Drawings" after the installation of the irrigation system.
- d. The As-Built Drawings must reflect changes in the field.and shall include:
- Scale of the drawing
 - North arrow
 - Legend of equipment
 - Date of installation
 - Minimum system requirements (gallons per minute/ PSI)
 - Location of the main connection referenced to a permanent structure (including size and type of pipe and type of backflow device)
 - Locations of sprinklers (specify types)
 - Locations of pipes
 - Location of valves, their size and valve boxes
 - Location of controller(s) and sensor(s)

- Location of all wire and connection points
- Location of underground sleeves
- Contractor's name and contact info

Section 9

Stormwater Management

9.1 Grading And Drainage

- a. New and existing park projects must comply with State, County and Local regulations, codes, and ordinances (if applicable) pertaining to Stormwater Management.
- b. Avoid water sheet flow over sidewalks or walking paths.
- c. Minimize impervious surfaces where possible.
- d. Design the topography of park sites to minimize grading and reduce soil disturbance.
- e. Park site should be designed to balance soil cut and fill where feasible.
- f. Manufactured sediment traps (e.g. gabion cages, grass barriers, ornamental rock check dams, and raised curbs) should be used to intercept stormwater runoff caring silt and other debris from landscape areas to drainage devices.
- g. Grade all planted or turf areas at a minimum slope of two percent (2%).
- h. Avoid grading turfed slopes steeper than the maximum mowing slope of five to one (5:1).
- i. Crown playing fields including baseball, softball, and soccer fields a minimum of two percent (2%).

- j. Hard court surfaces should be graded at one percent (1%).
- k. Include level areas for formal or informal spectator seating adjacent to the athletic field sidelines.
- l. Gradients should not exceed a two percent (2%) cross slope on walkways.
- m. Do not exceed twenty to one (20:1) or five percent (5%) longitudinal slope gradient on walks.
- n. All walkways exceeding a slope gradient of twenty to one (20:1) or five percent (5%) slope should be provided with handrails per ADA regulations and the California Title 24 Building Code.
- o. Ensure compliance with ADA and California Title 24 Building Code (Title 24).
- p. Place on-site stormwater devices in areas outside of active recreation use areas.
- q. All drainage drop inlets should be concrete boxes furnished with metal grate covers.
- r. Do not locate drain inlets or clean outs within or immediately adjacent to playing fields.
- s. Do not use drop inlets smaller than sixteen inches (16") square or diameter for landscape areas, and twenty-four inches (24") minimum for all other areas.
- t. Incorporate the following decorative Low Impact Development (LID) Best Management Practices (BMPs), where feasible:
 - Bioretention Area
 - Dry Stream Beds
 - Vegetated Buffers
 - Vegetated Swales
 - Porous Pavers
 - Planter Boxes

9.2 LID Site Design Strategies

- a. LID¹⁸ is an approach to storm-water management that emphasizes the use of small scale, natural drainage features integrated throughout the park site to slow, clean, infiltrate and capture urban runoff and precipitation, thus reducing water pollution, replenishing local aquifers and increasing water reuse.¹⁹
- b. LID strategies should be implemented and incorporated at the earliest possible stage of a project. This approach is an integral part of the design and layout of the site. Good LID

¹⁸ <http://www.huduser.org/Publications/PDF/practLowImpactDevel.pdf>

¹⁹ <https://dpw.lacounty.gov/idd/lib/fp/Hydrology/Low%20Impact%20Development%20Standards%20Manual.pdf>

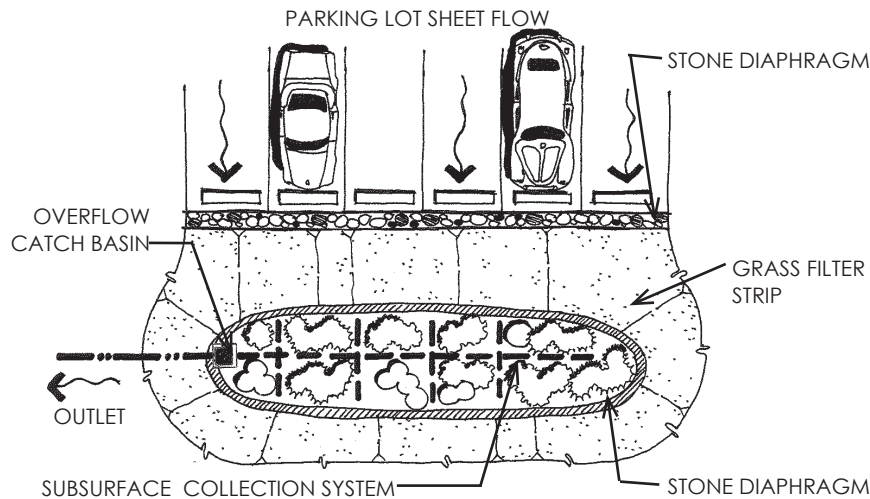


Exhibit 36: Bioretention with Drainage System

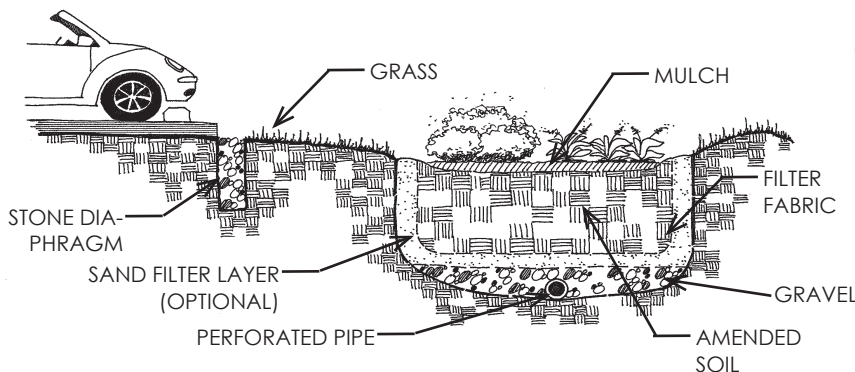


Exhibit 37: Bio-retention with drainage system. Parking lot run-off is directed toward a filter strip and pretreated prior to infiltration.

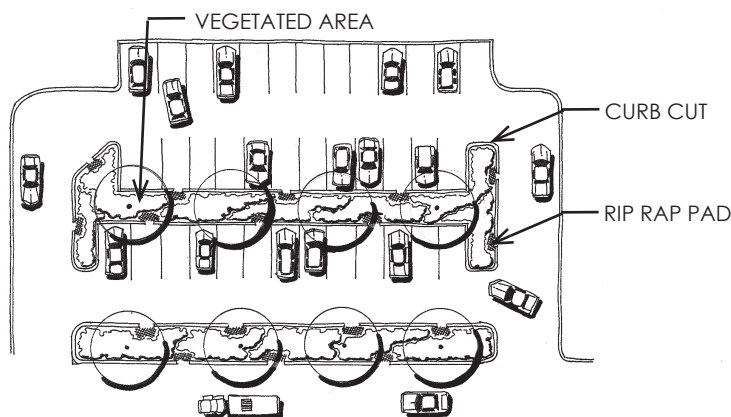


Exhibit 38: Curbed Parking with Lot Bio-retention

site design takes advantage of the services provided by the site's natural systems. The natural systems that LID seeks to preserve and even restore are an undeveloped site's hydrologic functions, vegetation, and soils. LID site planning and design practices approach stormwater as a resource that should be conserved. In undisturbed landscapes, storm drainage is typically handled by vegetation canopy, ground cover plants, soil absorption, and streams and waterways. In a modified landscape, storm drainage must be added to mitigate result of adding impermeable surfaces and structures.

- c. All projects must comply with the County of Los Angeles Green Building Ordinance - Low Impact Development Manual²⁰

9.3 Parking Lot Drainage

For new parking lot and road construction all run-off should be directed toward a pretreatment and infiltration LID BMP. See **Exhibits 36, 37 and 38** for examples of Bioretention Areas.

Section 10 Utilities

In an effort to reduce the use of non-renewable energy in our park sites the County of Los Angeles Department of Parks and Recreation is committed to using solar technology, LED or both in all new park buildings, parking lots, security lighting, and recreation facility lighting.

²⁰ http://dpw.lacounty.gov/wmd/LA_County_LID_Manual.pdf

10.1 New Electrical And Lighting

Utility Design

All Exterior Lighting must comply with California's Building Energy Efficiency Standards Title 24, Part 6.

- a. Design utility corridors in close proximity to roads and major walkways, to reduce future disturbance of these areas from maintenance and repair operations.
- b. Electrical design for park facilities should comply with the current adopted edition of all applicable city, county, state, federal codes and standards.
- c. The design should provide for the efficient use of energy through proper equipment selection and system controls.
- d. Oversize electrical panel by 30% for future expansion.
- e. Power, telephone and lighting panels should not protrude into any aisles or corridors. No panels should be installed in fire corridors unless panels are mounted in closets with fire rated doors.
- f. Use solar lighting when possible. Refer to the Parks Standards for suggested manufacturers.
- g. Lighting and appliance panel boards must have no fewer than one spare circuit breaker for every five active circuits.
- h. All exterior receptacles must have rainproof enclosures with lockable cover.
- i. All parking lot and walkway poles should be thirty feet (30') in height.
- j. Light poles must be on concrete bases. Top of concrete base must be no less than thirty-six inches (36") in height measured from finish surface or grade, and have a minimum two percent (2%) pitch away from pole center.

- k. Provide an in-ground concrete junction box within five feet (5') of each light. (Not applicable to solar lighting).
- l. Provide time programmable switches with battery backup device for all exterior lights.
- m. All new fixtures should be LED. Refer to the Parks Standards for suggested manufacturers.
- n. Provide interior restroom movement sensors (adjustable by field agency) for all restroom lighting systems.

10.1.1 SECURITY LIGHTING

- a. Use solar lighting wherever possible.
- b. Exterior security lighting should be provided for all new projects at the following County Park venues:
 - Parking Lots
 - Restroom Buildings
 - Primary circulation routes
- c. Use high efficiency lighting with low cut off angles and down-lighting.
- d. Use reflective-type lighting fixtures to reduce or eliminate glare.
- e. Allow no direct-beam exterior lighting at the property line.

10.1.2 RECREATIONAL FIELD LIGHTING

- a. Ballfield lighting should be provided as specified in the project facility program.
- b. Fixtures should use reflector shield systems to reduce off-field light spill.
- c. All light pole standards within or near a playing area that are not protected by a fence should have six foot (6') high pole pads.

10.2 HVAC

- a. HVAC sizing should be based on facility requirements, as determined during the initial mechanical design phase.

10.3 Telecommunication Systems

Provide data links and wifi access as directed in section 3.0.4 Data Links and Wi-Fi Access Design Considerations.

10.4 Smoke/Fire Detection Systems

- a. Follow all governing agency codes and requirements for proper smoke and fire detection systems.
- b. Provide an fire alarm system with a central alarm panel near the lobby in all new buildings.
- c. Provide a smoke detection system, cross zoned and interlocked to shut down ventilation systems and dampers as required. Alarms should transmit signal to the central alarm panel.
- d. Provide a heat sensor on the discharge side of air handlers. Two (2) smoke sensors are required in the supply duct, and two (2) smoke sensors are required in the return duct to shut down unit and transmit an alarm to the local Fire Department.
- e. Provide water flow alarms, one (1) for each sprinkler riser, installed and connected to the central alarm panel.
- f. For kitchens that serve the public, refer to the County of Los Angeles Environmental Health "Retail Construction Guidelines"²¹ for all codes and design requirements.

²¹ <http://publichealth.lacounty.gov/eh/docs/GUIDELINES%20RETAIL%20CONSTRUCTION%20REQUIREMENTS.pdf>

Chapter 3 Park Design Standards

Chapter Introduction

The Park Design Standards have been developed with the goal of providing information on preferred construction material and equipment products used in the design of County of Los Angeles Park facilities.

The Design Standards will benefit the Department by providing design consultants and staff with a more effective method of identifying and selecting products in the design and development of parks in the County system; these standards are applicable to new park development, park renovation, facility repair and the replacement of existing amenities.

While all sites are different and each project may have a unique set of issues not covered in these standards, additions, deletions or deviations from the Standards may be acceptable, if approved by the Department's Field Agencies and the Development Division during the design review process.

On January 16, 2007, the County of Los Angeles Board of Supervisors adopted a Countywide Policy instructing all County Departments to implement the County's Energy and Environmental Programs for energy conservation and environmental stewardship²². To implement the policy's "green" initiatives, County Departments will be tasked to purchase products that:

- include recycled content,

- are durable and long lasting,
- conserve energy and water,
- use agricultural fibers and residues,
- reduce greenhouse gas emissions,
- use unbleached or chlorine free manufacturing processes,
- and use wood from sustainable harvested forests.

Included in this chapter is a list of manufactured products for which specific manufactures are identified. A separate list has been developed for each of the four (4) Department Community Services Agencies based on their environmental and operational needs.

Design Standards Products

The following pages include Park Design Standards Products for each of the Departments Community Services Agencies:

- East County Community Services Agency
- South County Community Services Agency
- North County Community Services Agency
- Regional Facilities Agency

²² Board of Supervisors Policy No. 3.045 Energy and Environmental Policy

CSI SPEC SECTION	PARK GUIDELINE SECTION	PRODUCT	EAST AGENCY PREFERRED MANUFACTURER
<u>DIVISION 4: MASONRY</u>			
No Preference			
<u>DIVISION 5: METALS</u>			
No Preference			
<u>DIVISION 6: WOOD, PLASTICS AND COMPOSITES</u>			
No Preference			
<u>DIVISION 8: OPENINGS</u>			
No Preference			
<u>DIVISION 9: FINISHES</u>			
09 6400 Flooring	Community Bldg	Staff Office - Flooring	1. Mfg: Mannington Model: Urban Design Carpet Tile Color: Doorman 2. Mfg: Burke Model: 4" Wall Base Cove Tile Color: Nercer./b-1 Finish: Slate 660 3. Mfg: Mannington Model: Resilient Flooring, SC1/Assurance II 4. Mfg: Mohawk W&C Model: SEPAP24BL-P-MOH-AP
09 6500 Resilient Flooring	Community Bldg	Flooring	1. Mfg: Armstrong Model: Safety Zone VCT Tile www.armstrong.com 2. Mfg: Burke Flooring Model: 4" Cove Base Color: Black Finish: www.burkeflooring.com
<u>DIVISION 10: SPECIALTIES</u>			
10 1100 Visual Display Units	Community Bldg	Blackboard/Whiteboard	1. Mfg: Fry's Model: 36"x48" Dry Erase/Magnetic Color: Aluminum

CSI SPEC SECTION		PARK GUIDELINE SECTION	PRODUCT	EAST AGENCY PREFERRED MANUFACTURER
10 2800	Toilet, Bath and Laundry Specialties	Restroom Bldg	Hand Dryers	1. Mfg: World Dryer Model: Model "A"
10 2800	Toilet, Bath and Laundry Specialties	Restroom Bldg	Toilet Paper Dispenser	1. Mfg: Ojserkis Janitor Supply Model: R2601/3-Roll Color: R2602/Triple
11 6500	Athletic and Recreational Equipment	Tennis Court	Fence Screen	1. Mfg: Model: Tennis Court Fencing, 12' ht., 1-3/4" Mesh, 9 GA Chain Link Fence Fabric
11 6600	Athletic and Recreational Equipment	Ball Field	Bat Racks	1. Mfg: LA Steelcraft Model: BR-15 Color: Galvanized Steel 2. Mfg: BSN Sports Model: BS-1159622; Steel Fence Bat Rack - 30" long
11 6600	Athletic and Recreational Equipment	Ball Field	Bases	1. Mfg: BSN Sports Model: BS-BBBASEPR w/ Anchors & Plugs Color: White Bases 2. Mfg: BSN Sports Model: BS-BBHPHWODBM Color: Home Plate
11 6600	Athletic and Recreational Equipment	Ball Field	Batting Cages	1. Mfg: Model: Custom w/ Chainlink and Net
11 6600	Athletic and Recreational Equipment	Ball Field	Foul Ball Poles	1. Mfg: BSN Sports Model: BS-BS Foul, 20'/12" Wing; 3-1/2" Outside Diameter Pole
11 6600	Athletic and Recreational Equipment	Ball Field	Outfield Fencing with Cap Padding	1. Mfg: BSN Sports Model: SAF-TOP BS-1234893 2. Mfg: BSN Sports Model: SBS314GP Color: 200FD Homerun Fence w/ Yellow Top Tape

CSI SPEC SECTION		PARK GUIDELINE SECTION	PRODUCT	EAST AGENCY PREFERRED MANUFACTURER
11 6600	Athletic and Recreational Equipment	Ball Field	Softball/Baseball Backstop	1. Mfg: Model: Custom/ Wood
11 6600	Athletic and Recreational Equipment	Volleyball Court	Steel Poles	1. Mfg: BSN Sports Model: BS-1157642, Slide Multi-Sport System
11 6600	Athletic and Recreational Equipment	Volleyball Court	Net	1. Mfg: BSN Sports Model: BS-SNVBSC324
11 6600	Athletic and Recreational Equipment	Park Furnishing	Dog Park Waste Bag Station	1. Mfg: Uline Model: H-2897; Dog Waste 2. Mfg: Uline Model: H-2898, Dog Waste System Sign 3. Mfg: Uline Model: H-3491; Dog Waste System Receptacle 4. Mfg: Uline Model: S-15585; 8"x13" Dog Waste Bags
11 6640	Scoreboards	Gym Bldg	Scoreboard	1. Mfg: All American Model: 8212 EMC LED w/ Electrical Message Center www.allamericanscoreboards.com
11 6640	Scoreboards	Ball Field	Scoreboards	1. Mfg: MacGregor Model: BS-MSBBSI 16'x5' Outdoor Scoreboard w/ wireless remote
11 6440	Swimming Pools and Equipment	Swimming Pool	Electronic Scoreboard	1. Mfg: Daktronics Model: Varies
11 6710	Outdoor Fitness Trails and Stations	Fitness Zone	Exercise Equipment	1. Mfg: Greenfield Color: Green Finish: Powder Coat 2. Mfg: Landscape Structures Inc. Model: Fitcare Cluster w/ Healthbeat Unit B-Cardio Stepper Color: Green 3. Mfg: Great Western Model: Triactive

CSI SPEC SECTION	PARK GUIDELINE SECTION	PRODUCT	EAST AGENCY PREFERRED MANUFACTURER
11 8600 Play Structures	Children's Play Area	Play Equipment Componets	1. Mfg: Miracle Model: 2-5 year olds; 5-12 year olds 2. Mfg: Kompan Model: 2-5 year olds; 5-12 year olds 3. Mfg: Landscape Structures Inc. Model: 2-5 year olds; 5-12 year olds 4. Mfg: Burke Model: 2-5 year olds; 5-12 year olds
11 6800 Play Structures	Children's Play Area	Climbing Boulders or Animal Sculptures	1. Mfg: Landscape Structures Inc. Model: Rock Climbers Color: Brown 2. Mfg: Landscape Structures Inc. Model: Lunar Blast Net Climber
11 6840 Spray Parks	Splash Pad	Spray Elements	1. Mfg: Vortex Model: Varies
DIVISION 12: FURNISHINGS			
12 5000 Furniture	Community Bldg	Staff Offices - Cabinets	1. Mfg: Virco Manufacturing Corp. Model: AV Cart, KPRE183642 Color: Grey/Black 2. Mfg: Maverick Model: Wood Hutch w/ Doors, MMH60 Color: Medium Oak or Seattle Cherry 3. Mfg: Maverick Model: Bookcase, MMBC3665, 12" x 36" x 65" Color: Medium Oak or Seattle Cherry

CSI SPEC SECTION	PARK GUIDELINE SECTION	PRODUCT	EAST AGENCY PREFERRED MANUFACTURER
12 5000 Furniture	Community Bldg	Staff Offices - Storage	<p>1. Mfg: HON Model: 4-Drawer Lateral File Color: Light Gray</p> <p>2. Mfg: Granger Model: Storage Cabinet, 36" x 24" x 72", 4W537 Color: Black Finish: www.granger.com</p> <p>3. Mfg: Granger Model: 2-Shelf Steel Bookcase, 72"x40" width Color: Black Finish: www.granger.com</p> <p>4. Mfg: Salisbury Ind. Model: Steel Storage Cabinet, 9074 BLK-A Color: Black</p>
12 5000 Furniture	Community Bldg	Reception Chairs	<p>1. Mfg: Virco Manufacturing Corp. Model: N9 Task Chair – Metaphor Task Color: Black www.virco.com</p> <p>2. Mfg: HON Company Model: HIWM3 Mid-Back Color: Black, Mesh Back/III Upholstery</p>

CSI SPEC SECTION	PARK GUIDELINE SECTION	PRODUCT	EAST AGENCY PREFERRED MANUFACTURER
12 5140 Wood and Plastic-Laminate Office Furniture	Community Bldg	Staff Offices - Desks	<p>1. Mfg: Maverick Model: Double Ped 30" x 60" Desk, MMD3060 Color: Medium Oak or Seattle Cherry</p> <p>2. Mfg: Maverick Model: Hutch 60" x 36", MMH60-WD Color: Medium Oak or Seattle Cherry</p> <p>3. Mfg: Maverick Model: 4-Drawer Lateral File, MMLF204 Color: Medium Oak or Seattle Cherry, Black Handles (H3B)</p> <p>4. Mfg: Virco Manufacturing Corp. Model: Desk, Pedestal Double Desk w/ no Center Drawer, 533060 Color: www.virco.com</p> <p>5. Mfg: HON Model: Workstation Color: Tabletop-Bourbon Cherry, Paint-Light Gray</p>
12 5624 Educational Furniture	Gym Bldgs	Classroom Tables	<p>1. Mfg: Virco Manufacturing Co. Model: 87PF2460-GRY091 (Computer Table-Adjustable Height) Color: Grey/Black Finish: www.virco.com</p> <p>2. Mfg: Virco Manufacturing Co. Model: 87PF2472 (Computer Table-Adjustable Height) Color: Grey091/Black Finish: www.virco.com</p> <p>3. Mfg: Virco Manufacturing Co. Model: TT2472830 Text Series Color: Grey, Tilt Top 24" x 72" Finish: www.virco.com</p>

CSI SPEC SECTION	PARK GUIDELINE SECTION	PRODUCT	EAST AGENCY PREFERRED MANUFACTURER
12 6200	Portable Audience Seating	Gym Bldg Folding/Stacking Chairs	1. Mfg: Virco Manufacturing Corp. , Model: N914 Metaphor, Color: Blue Seat, Chrome Frame www.virco.com 2. Mfg: Virco Manufacturing Corp. , Model: N918 Metaphor, Color: Wine www.virco.com 3. Mfg: Virco Manufacturing Corp. , Model: N918 Metaphor, Color: Graphite Seat www.virco.com
12 9300	Site Furnishings	Park Furnishing Barbeque Grills	1. Mfg: RecWest Outdoor Products Inc. Model: MF16 Grill 2. Mfg: RecWest Outdoor Products Inc. Model: SB3628U w/shelf
12 9320	Trash and Litter Receptors	Park Furnishing Trash and Litter Receptors	1. Mfg: Wabash Model: LR300R/LR 310/ FT110, 32 Gallon Receptacle Color: Rib/Green/14" Dia. Dome 2. Mfg: Wabash Model: Planter Box; PL102R-24" Dia. X 24" Ht. Color: Rib/Red
12 9320	Trash and Litter Receptors	Park Furnishing Hot Coal Receptacles	1. Mfg: US Concrete Precast Model: HCRBBQ1-K 2. Mfg: San Diego Precast Concrete Model: Hot Coal HCRBBQ1K
129320	Trash and Litter Receptors	Individual Picnic Areas Dog Park Furnishings (Waste Bag Station)	1. Mfg: Uline Model: H-2897; Dog Waste System Dispenser 21. Mfg: Uline Model: H-2898; Dog Waste System Sign 3. Mfg: Uline Model: H-3491; Dog Waste System Receptacle 4. Mfg: Uline Model: S-15585; 8" x 13" Dog Waste Bags

CSI SPEC SECTION	PARK GUIDELINE SECTION	PRODUCT	EAST AGENCY PREFERRED MANUFACTURER
12 9340 Site Seating, Benches and Tables	Ball Field	Player Benches	1. Mfg: BSN Sports Model: BS-BEPH15 2. Mfg: BSN Sports Model: BS-BEPE51 3. Mfg: LA Steelcraft Model: LBA-15P
12 9340 Site Seating, Benches and Tables	Park Furnishing	Benches	1. Mfg: Wabash Valley Model: CY42OR; 6' long bench with back Color: Rib/Green
12 9340 Site Seating, Benches and Tables	Park Furnishing	Picnic Tables	1. Mfg: Outdoor Creations Inc. Model: Concrete w ADA seating; #109, 8' length
<u>DIVISION 13: SPECIAL CONSTRUCTION</u>			
13 1100 Swimming Pools and Equipment	Swimming Pool	Pool Ladders	1. Mfg: Paragon Aquatics Model: Figure 4-44-073 w/ Grab Bars
13 1100 Swimming Pools and Equipment	Swimming Pool	Diving Boards	1. Mfg: Duraform Model: 16'
13 1100 Swimming Pools and Equipment	Swimming Pool	Chemical Controllers	1. Mfg: Becks
13 1100 Swimming Pools and Equipment	Swimming Pool	Emergency Trauma Kits	1. Mfg: Custom per facility
13 3430 Grandstands and Bleachers	Ball Field	Bleachers (Aluminum or Wood)	1. Mfg: Kay Park Model: BLA10A21V4F4 (21') & 62SG-VP(6') 2. Mfg: Kay Park Model: BLA4A15V4F4, Seats 40 3. Mfg: LA Steelcraft Model: BLO415SA, Seats 40

DIVISION 14: CONVEYING EQUIPMENT

CSI SPEC SECTION	PARK GUIDELINE SECTION	PRODUCT	EAST AGENCY PREFERRED MANUFACTURER
14 4000 Lifts	Swimming Pools	ADA Chair Lifts	1. Mfg: Paragon Aquatics Model: Recreation Lifter 46-620 2. Mfg: California Splash Model: Lift Package 46-765 3. Mfg: Paragon Aquatics Model: Recreonics Lifter 4. Mfg: Spectrum
<u>DIVISION 21: FIRE SUPPRESSION</u>			
No Preference			
<u>DIVISION 22: PLUMBING</u>			
22 0000 Plumbing	Restroom Bldg	Toilets	1. Mfg: Acorn Engineering Co. Model: Dura-Ware 2105-T-1-CN-FG 2. Mfg: Acorn Engineering Co. Model: Dura-Ware 2105-ADA-T-1-CNFG 3. Mfg: American Standard Model: AFWall Elongated Flush Valve Toilet – 2257-103; #95 Open Seatless Cover by Olsonite 4. Mfg: Sloan Valve Co. Model: Flush Valve, Royal Flushometer #111
22 4210 Plumbing Fixtures	Restroom Bldg	Sinks	1. Mfg: Acorn Engineering Co. Model: 19 51-1-9-GT-TT-TE-FG, Color: Stainless Steel 2. Mfg: Acorn Engineering Co. Model: 1953-ADA-1-9-GT-TT-TE-FG, Color: Stainless Steel 3. Mfg: American Standard (Wall Hung), Model:0355-012, Color: White w/ Plumbing Trap 4. Mfg: Chicago Faucet (Use w/stainless steel tank) Model:333-669 w/E12 VP Aerator, Locking Hole Plug & Stainless Steel Flexible Supply 5. Mfg: Chicago Faucet (Use w/china sink) Model:1802A w/E12 VP Aerator

CSI SPEC SECTION	PARK GUIDELINE SECTION	PRODUCT	EAST AGENCY PREFERRED MANUFACTURER
22 4217	Waterless Urinals	Restroom Bldg	Standard and Waterless Urinals
			1. Mfg: American Standard Model: 6501-010 Washbrook, Color: White w/ Stainless Steel Strainer (047068-0070A) 2. Mfg: Acorn Engineering Co. Model: Dura-Ware 2167-T-1-CFR-FG
22 4700	Drinking Fountains - Dog Park Interior & Exterior	Dog Park Drinking Station	1. Mfg: MDF Fountains Inc. Model: 440 SM; Dog Drinking Station
<u>DIVISION 23: HEATING, VENTILATING AND AIR-CONDITIONING (HVAC)</u>			
23 7000	Central HVAC Equipment	Community Bldg	HVAC System
			1. Mfg: Comfort-Aire Model: REG-81H (Heat/Cool) Color: White www.comfort-aire.com 2. Mfg: Norton Electric/Dynamic Model: 353511 A/T Multi-Zone A/H with Service Disconnect and Duct Transition
<u>DIVISION 26: ELECTRICAL</u>			
26 5600	Exterior Lighting	Restroom Bldg	Exterior Lighting
			1. Mfg: Trace Life Model: TL116-IND-40M Color: Bronze Finish: 40W Induction Lamp 2. Mfg: Golden State Ltg. Sales Model: T260-Size 20/86 Lumens (80W/7360), Pole Color: DB/Dark Bronze, Powder Coated Finish: Color Temperature 50-5000K
26 5620	Lighting Poles, Standards and Bases	Security Lighting	Parking Lot Standards
			1. Mfg: Luminaire Model:M400, 953 Pole w/ Base Plate Bolting

CSI SPEC SECTION	PARK GUIDELINE SECTION	PRODUCT	EAST AGENCY PREFERRED MANUFACTURER
26 5660 Exterior Athletic Lighting	-Soccer Field -Multi-Use Court -Ballfields	Court Lighting	1. Mfg: Pacific Manufacturing Model:UTOPIA #MFL-2L-200ID/50-UNIV-Induction Color:BRNZ/SLIP FIT 2. Mfg: Square D Electric Model: Panel and Brackets
26 5660 Exterior Athletic Lighting	Tennis Court	Court Lighting	1. Mfg: Musco Lighting Model: Light Structure Color: Green 2. Mfg: Musco Lighting Model: Sports Cluster Color: Green
26 5660 Exterior Athletic Lighting	Basketball Court	Court Lighting	1. Pacific Manufacturing Model: Utopia #MFL-2L-200ID/50-UNIV-Induction Color: BRNZ/Slip Fit 2. Square D Elec Model: Panel and Brackets

DIVISION 27: COMMUNICATIONS

No Preference

DIVISION 28: ELECTRONIC SAFETY AND SECURITY

28 2030 Video Surveillance	Security & Safety	Security Cameras (Monitoring Systems)	1. Mfg: Sileox Zoom Cameras Model:AC5318PGEO, Color: White or Black 2. Mfg: Sileox – Fixed Cameras Model:AC-LT-C485-21 Color:White or Black 3. Mfg: Bosch Networking/DVR Model:CM6800 Color:Black 4. Mfg: Secure Model:DVR Lockbox w/ Key Cylinder 5. Mfg: Bosch – Alarm Panels Model:9412 Color:N/A (White Keypads) with armored cable (no plastic)
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DIVISION 31: EARTHWORK

CSI SPEC SECTION	PARK GUIDELINE SECTION	PRODUCT	EAST AGENCY PREFERRED MANUFACTURER	
DIVISION 32: EXTERIOR IMPROVEMENTS				
32 1540	Decomposed Granite Paving	Pedestrian Circulation	Decomposed Granite	1. Mfg: Whittier Fertilizer Model: 24 Ton D.G.
32 1540	Decomposed Granite Surface	Pedestrian Circulation	Decomposed Granite Stabilized	1. Mfg: Whittier Fertilizer Model: 24 Ton D.G.
32 1540	Decomposed Granite Surface	Fitness Zone	Surface Materials	1. Mfg: Whittier Fertilizer Model: 24 Ton D.G. 2. Mfg: Whittier Fertilizer Model: Topsoil-Premium Grade, 60 yds. 3. Mfg: Gail Materials Model: Aqua Stop Topsoil w/ Lassenite
32 1700	Paving Specialties	Vehicular Circulation	Speed Humps	1. Mfg: Custom Installed Model: Asphalt per DPW specs Color: see "Green Book" Finish:
32 1720	ADA Tactile Warning Surfaces	Pedestrian Circulation	ADA Truncated Domes	1. Mfg: Model: Non-Noted Perforated Color: Finish:
32 1821	Specialty Sport Soils	Fitness Zone	Surface Materials	1. Mfg: Whittier Fertilizer (Supplier) Model: 24 Ton D.G. Color: Finish: 2. Mfg: Whittier Fertilizer (Supplier) Model: Topsoil-Premium Grade, 60 yds. Color: Finish: 3. Mfg: Gail Materials (Supplier) Model: Aqua Stop Topsoil w/ Lassenite Color: Finish:
32 1828	Tennis Court Surfacing	Tennis Court	Tennis Court Surfacing	1. Mfg: Plexipave Model: Plexipave Standard System 2. Mfg: Plexipave Model: Plexicushion

CSI SPEC SECTION		PARK GUIDELINE SECTION	PRODUCT	EAST AGENCY PREFERRED MANUFACTURER
32 1840	Playground Protective Surfaces	Splash Pad	Engineered Wood Fiber Surfacing	1. Mfg: Recycled Wood Products Model: Fiber Fall 2. Mfg: Whittier Fertilizer Model: Playground Chip
32 1840	Playground Protective Surfaces	Splash Pad	Rubber Tile Surfacing	1. Mfg: Spectraturf Model: 10" high certified fall height; 3.75" min. thickness
32 1840	Playground Protective Surfaces	Splash Pad	Poured in Place Surfacing	1. Mfg: Spectra Turf Model: SpectrPour Color: Match Existing Colors
32 3100	Decorative & Ornamental Fences and Gates	Children's Play Area	Decorative Fencing	1. Mfg: Landscape Structures, Inc. Model: Playground Fencing Color: Red Finish: Powder Coat Paint 2. Mfg: Recwest Outdoor Model: 127" Long w/Graphic
32 3113	Chainlink Fences and Gates	Maintenance Bldg/Yard	Gates	1. Mfg: Landscape Structures Model: Custom 4'-8" Gate w/hinges and latch Color: Red Finish: Powder Coated
32 3113	Chainlink Fences and Gates	Individual Picnic Areas	Chainlink Fencing	1. Mfg: Crown Fence Co.
32 8000	Irrigation	Irrigation	Flow Sensor	1. Mfg: Rainbird Model: Varies
32 8400	Planting Irrigation	Irrigation	Backflow Prevention Device	1. Mfg: Febco Model: Varies
32 8400	Planting Irrigation	Irrigation	Pressure Regulator	1. Mfg: Watts Model: Varies
32 8400	Planting Irrigation	Irrigation	Remote Control Valves	1. Mfg: Rainbird Model: EFB Series. Brass
32 8400	Planting Irrigation	Irrigation	Check Valves (Anti-Drain Valves)	1. Mfg: Griswold Model: Varies
32 8400	Planting Irrigation	Irrigation	Quick Couplers	1. Mfg: Rainbird Model: Varies
32 8400	Planting Irrigation	Irrigation	Sensors (Rain, Wind, etc.)	1. Mfg: Rainbird Model: Varies
32 8400	Planting Irrigation	Irrigation	Spray Heads (Rotor)	1. Mfg: Rainbird Model: Varies

CSI SPEC SECTION	PARK GUIDELINE SECTION	PRODUCT	SOUTH AGENCY PREFERRED MANUFACTURER
<u>DIVISION 4: MASONRY</u>			
04 2000 Unit Masonry	Restroom Bldg	CMU Block - Colored Split Face	1. Mfg: Orco Block Model: 8 x 8 x 16 Color: Tan Finish: Split Face 2. Mfg: Orco Block Model: 8 x 4 x 16 Color: Grey and Tan Finish: Smooth
<u>DIVISION 5: METALS</u>			
No Preference			

CSI SPEC SECTION	PARK GUIDELINE SECTION	PRODUCT	SOUTH AGENCY PREFERRED MANUFACTURER
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DIVISION 4: MASONRY

04 2000 Unit Masonry	Restroom Bldg	CMU Block - Colored Split Face	1. Mfg: Orco Block Model: 8 x 8 x 16 Color: Tan Finish: Split Face 2. Mfg: Orco Block Model: 8 x 4 x 16 Color: Grey and Tan Finish: Smooth
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DIVISION 5: METALS

No Preference

DIVISION 6: WOOD, PLASTICS AND COMPOSITES

No Preference

DIVISION 8: OPENINGS

08 1000 Doors and Frames	Restroom Bldg	Doors and Hardware	1. Mfg: Yale Mortise Model: AUE 8800 FL Color: ZA Keyway LFIC Finish: 26D/626 2. Mfg: Yale Lever Model: AU 5400 LN Color: ZA Keyway LFIC Finish: 26D/626 3. Mfg: LCN Closer Model 4040 XP Color: Aluminum Finish: 4. Mfg: T.M. Cobb Model: Lumber Core Color: Natural Finish: Birch 5. Mfg: Stanley / Lawrence Model: Butt Hinges 4.5 x 4.5 Color: Stainless Finish: 26D
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CSI SPEC SECTION	PARK GUIDELINE SECTION	PRODUCT	SOUTH AGENCY PREFERRED MANUFACTURER
08 1000 Doors and Frames	Gym Bldg	Doors and Hardware	1. Mfg: Yale Mortise Model: Alle 8800 FL Color: ZA Keyway Finish: 26D/626 2. Mfg: Yale Lever Model: AU 5400 LN Color: ZA Keyway Finish: 26D/626 3. Mfg: LCN Closer Model 4040 XP Color: Aluminum 4. Von Duprin Exit Device Model: 99 Series Touch Bar Exit Device No Vertical Rods, use mullions Finish: 26D / 626
08 5000 Windows	Gym Bldg	Windows	1. Mfg: Milgard Model: #238 Color: White Finish: Aluminum
08 8300 Mirrors	Restroom Bldg	Mirrors	1. Mfg: Bradley Model: B-165 36"x48" Color: Chrome Finish: Stainless Steel
08 8300 Mirrors	Gym Bldg	Dressing Room Mirrors	1. Mfg: School Outfitters Model: Varies 2. Mfg: School Specialty Model: Varies 3. Mfg: Direct Advantage Model: Varies 4. Mfg: Discount School Supply Model: Varies 5. Mfg: A to Z Glass Model: All Models Color: All Colors Finish: All Finishes
<u>DIVISION 9: FINISHES</u>			
09 6000 Flooring	Pool Bldg	Flooring	Concrete w/Medium Broom Finish, No Paint

CSI SPEC SECTION		PARK GUIDELINE SECTION	PRODUCT	SOUTH AGENCY PREFERRED MANUFACTURER
09 6400	Wood Flooring	Gym Bldg	Wood Flooring	1. Mfg: Johnson Model: Strip Color: Natural Finish: Gloss 2. Mfg: Robbins Model: Strip Color: Natural Finish: Gloss
DIVISION 10: SPECIALTIES				
10 1100	Visual Display Units	Community Bldg	Blackboard/Whiteboard	1. Mfg: School Outfitters (Vendor)
10 1100	Visual Display Surfaces	Community Bldg	Bulletin Boards/Pin Boards	1. Mfg: School Outfitters (Vendor) 2. Mfg: Discount School Supply (Vendor) 3. Mfg: Staples (Vendor)
10 1400	Signage	Pool Bldg	Signage	1. Mfg: In-house sign shop (DPR)
10 1450	Exterior Signage	Individual Picnic Areas	Park Signage	1. Mfg: In-House 2. Mfg: Fossil Graphics 3. Maneri Sign Company
10 1450	Exterior Signage	Swimming Pool	Regulatory Signage	1. Mfg: DPR Sign Shop Model: "Maximum Pool Capacity" "Emergency Action Plan" "Authorized Personnel Only" "Emergency Call 9-911" "First Aid and Oxygen" "Hazardous Material" "No Diving" "No Lifeguard On Duty" "CPR" "Emergency Shut Off Switch" "Keep Closed" "Diarrhea Notice"
10 1450	Exterior Signage	Swimming Pool	Informational Signage	1. Mfg: DPR Sign Shop Model: "Swimsuit Required" "Obey Your Lifeguard" "No Street Clothes on Deck" "Pool Rules" 2. Mfg: Maneri Sign Company

CSI SPEC SECTION		PARK GUIDELINE SECTION	PRODUCT	SOUTH AGENCY PREFERRED MANUFACTURER
10 2270	Portable Partitions	Community Bldg	Room Partitions	1. Mfg: Staples (Vendor)
10 2800	Toilet, Bath and Laundry Specialties	Restroom and Pool Bldgs	Soap Dispenser	1. Mfg: Waxie Sanitary Supply Model: 1/2000ml Dispenser Color: Gray 2. Mfg: Bobrick
10 2800	Toilet, Bath and Laundry Specialties	Restroom Bldg	Toilet Seat Cover Dispenser	1. Mfg: Waxie Sanitary Supply Model: 851560 Color: White Finish: Plastic 2. Mfg: Bobrick
10 2800	Toilet, Bath and Laundry Specialties	Restroom Bldg	Toilet Paper Dispenser	1. Mfg: Waxie Model: #815 Color: Chrome Plated 2. Mfg: Bobrick
10 2800	Toilet, Bath and Laundry Specialties	Restroom Bldg	ADA Grab Bars	1. Mfg: Tubular Specialty Model: SE 957 Color: Stainless Steel Finish: 26-D 2. Mfg: Mintcraft Model: SE957 Color: Stainless Steel Finish: 26-D
10 5000	Storage Specialties	Gym Bldg	Dressing Room Lockers	1. Mfg: School Outfitters Model: Varies 2. Mfg: Direct Advantage Model: Varies 3. Mfg: Discount School Supply
10 5600	Storage Shelving	Gym Bldg	Storage Room Shelving	1. Mfg: School Outfitters Model: Varies 2. Mfg: Discount School Supply Model: Varies 3. Mfg: Classroom Direct Model: Varies 4. Mfg: Tomark Model: Varies
10 7340	Fabric Shade Canopies	Childrens Play Area	Shade Sails	1. Mfg: US Shades

DIVISION 11: EQUIPMENT

CSI SPEC SECTION		PARK GUIDELINE SECTION	PRODUCT	SOUTH AGENCY PREFERRED MANUFACTURER
11 4000	Foodservice Equipment	Community Bldg	Kitchen Appliances	1. Mfg: Arrow Restaurant Equipment (Vendor) 2. Mfg: KaTom Restaurant Supply (Vendor) 3. Mfg: Central Restaurant (Vendor)
11 4000	Foodservice Equipment	Sports Field Concession Stand	Kitchen Appliances	1. Mfg: Arrow Restaurant Equipment (Vendor) 2. Mfg: KaTom Restaurant Supply (Vendor) 3. Mfg: Central Restaurant (Vendor)
11 5200	Audio-Visual Equipment	Community Bldg	Audio Visual Equipment - Screens	1. Mfg: Tomark 2. Mfg: Best Buy (Vendor) 3. Mfg: Fry's (Vendor)
11 6100	Theater and Stage Equipment	Gym Bldg	Stage Lift	1. Mfg: Southern Aluminum Model: Portable Stages 2. Mfg: School Outfitters Model: Portable Stages 3. Ascension Wheel Chair Lift
11 6100	Theater and Stage Equipment	Gym Bldg	Stage Curtain	1. Mfg: iWeiss Theatrical Solutions Model: Varies 2. Mfg: Roseband
11 6600	Athletic and Recreational Equipment	Ball Field	Pole Padding	1. Mfg: BSN Sports 2. Mfg: Tomark Sports
11 6600	Athletic and Recreational Equipment	Ball Field	Softball/Baseball Backstop	1. Mfg: BSN Sports Model: 9 Gauge Chain Link 2. Mfg: Tomark Sports
11 6600	Athletic and Recreational Equipment	Soccer/Multi-Use Court	Field Lighting Pole Padding	1. Mfg: BSN Sports 2. Mfg: Tomark Sports
11 6600	Athletic and Recreational Equipment	Basketball Court	Pole and Backboard	1. Mfg: BSN Sports 2. Mfg: Tomark Sports
11 6600	Athletic and Recreational Equipment	Volleyball Court	Net	1. Mfg: BSN Sports 2. Mfg: Tomark Sports

CSI SPEC SECTION		PARK GUIDELINE SECTION	PRODUCT	SOUTH AGENCY PREFERRED MANUFACTURER
11 6600	Athletic and Recreational Equipment	Volleyball Court	Court Rope Lines	1. Mfg: BSN Sports 2. Mfg: Tomark Sports
11 6600	Athletic and Recreational Equipment	Volleyball Court	Steel Poles	1. Mfg: BSN Sports 2. Mfg: Tomark Sports
11 6600	Athletic and Recreational Equipment	Tennis Court	Poles and Net	1. Mfg: BSN Sports 2. Mfg: Tomark Sports
11 6600	Athletic and Recreational Equipment	Gym Bldg	Basketball Standards	1. Mfg: Tomark Model: Varies 2. Mfg: BSN
11 6600	Athletic and Recreational Equipment	Gym Bldg	Wall Padding	1. Mfg: Wainscoting Padding Model: Varies 2. Mfg: Kwik-Stik 3. Mfg: AK Athletic Equipment Model: Varies 4. Mfg: Tomark Sports Model: TM-K35050 5. Mfg: BSN
11 6600	Athletic and Recreational Equipment	Gym Bldg	Exercise Room Equipment	1. Mfg: Specialty Fitness (Vendor) 2. Mfg: Sears (vendor) 3. Mfg: Sports Authority (Vendor) 4. Mfg: Greenfield
11 6640	Scoreboards	Gym Bldg	Scoreboard	1. Mfg: Daktronics Scoreboards Model: Varies 2. Mfg: All American Scoreboards Model: Varies 3. Mfg: Macgregor Scoreboards Model: Varies 4. Mfg: Tomark Sports Model: Danaview
11 6640	Scoreboards	Ball Field	Scoreboard	1. Mfg: Daktronics Scoreboards Model: Varies 2. Mfg: All American Scoreboards Model: Varies 3. Mfg: Macgregor Scoreboards Model: Varies 4. Mfg: Tomark Sports Model: Danaview

CSI SPEC SECTION	PARK GUIDELINE SECTION	PRODUCT	SOUTH AGENCY PREFERRED MANUFACTURER
11 6640 Scoreboards	Soccer/Multi-Use Court	Scoreboard	1. Mfg: Daktronics Scoreboards Model: Varies 2. Mfg: All American Scoreboards Model: Varies 3. Mfg: Macgregor Scoreboards Model: Varies 4. Mfg: Tomark Sports Model: Danaview
11 6640 Scoreboards	Indoor Basketball Scoreboards	Scoreboard	1. Mfg: Daktronics Scoreboards Model: Varies 2. Mfg: All American Scoreboards Model: Varies 3. Mfg: Macgregor Scoreboards Model: Varies 4. Mfg: Tomark Sports Model: Danaview
11 6440 Swimming Pools and Equipment	Swimming Pool	Electronic Scoreboard	1. Mfg: Colorado Time Systems Model: SY56
11 6710 Outdoor Fitness Trails and Stations	Fitness Zone	Exercise Equipment	1. Mfg: Greenfield
11 6860 Skateboard Facilities	Skate Park	On-Grade Skate Elements	1. Mfg: American Ramp Co.
<u>DIVISION 12: FURNISHINGS</u>			
12 3600 Countertops	Gym Bldg	Dressing Room Counters	1. Mfg: Discount School Supply Model: Varies 2. Mfg: Classroom Direct Model: Varies
12 4850 Athletic and Recreational Equipment	Gym Bldg	Exercise Room Flooring	1. Mfg: Rubber Flooring Inc. Model: Varies, 3/8" thick 2. Mfg: Tomark Model: Varies
12 5000 Furniture	Community Bldg	Staff Offices - Cabinets	1. Mfg: Staples (Vendor) 2. Mfg: Office Furniture (Vendor)

CSI SPEC SECTION		PARK GUIDELINE SECTION	PRODUCT	SOUTH AGENCY PREFERRED MANUFACTURER
12 5000	Furniture	Community Bldg	Staff Offices - Storage	1. Mfg: National Business Furniture (Vendor)
12 5000	Furniture	Community Bldg	Reception Chairs	1. Mfg: Staples (Vendor) 2. Mfg: National Business Furniture (vendor)
12 5120	Metal Office Furniture	Gym Bldg	Office Furniture	1. Mfg: Classroom Direct Model: Varies 2. Mfg: School Outfitters Model: Varies 3. Mfg: Discount School Supply
12 5140	Wood and Plastic-Laminate Office Furniture	Community Bldg	Staff Offices - Desks	1. Mfg: Stables (Vendor) 2. Mfg: School Outfitters (Vendor)
12 5624	Educational Furniture	Gym Bldgs	Classroom Tables	1. Mfg: Virco 2. Mfg: School Outfitters (Vendor) 3. Mfg: Discount School Supply (Vendor)
12 6200	Portable Audience Seating	Gym Bldg	Folding/Stacking Chairs	1. Mfg: School Outfitters (Vendor) 2. Mfg: Virco 3. Mfg: Discount School Supply (Vendor) 4. Mfg: National Public Seating (Vendor)
12 6720	Benches	Gym Bldg	Dressing Room Bench/Seating	1. Mfg: Classroom Direct Model: Varies: 2. Mfg: School Outfitters Model: Varies
12 6720	Benches	Pool Bldg	Dressing Room Bench/Seating	1. Mfg: Trek Products
12 9300	Site Furnishings	Park Furnishing	Barbeque Grills	1. Mfg: Outdoor Creations

CSI SPEC SECTION		PARK GUIDELINE SECTION	PRODUCT	SOUTH AGENCY PREFERRED MANUFACTURER
12 9300	Site Furnishings	Maintenance Bldg/Yard	Storage Containers	1. Mfg: South West Mobile Storage (Vendor) 2. Mfg: Aztec Containers (Vendor) 3. Mfg: Mobile Mini Containers (Vendor)
12 9340	Site Seating, Benches and Tables	Park Furnishings	Picnic Tables	1. Mfg: Outdoor Creations
12 9340	Site Seating, Benches and Tables	Park Furnishings	Benches	1. Mfg: Outdoor Creations
12 9340	Site Seating, Benches and Tables	Sports Field	Player Benches	1. Mfg: Tomark 2. Mfg: Herks
<u>DIVISION 13: SPECIAL CONSTRUCTION</u>				
13 10	Swimming Pools and Equipment	Swimming Pool	Emergency Trauma Kits	1. Mfg: First Aid Trauma Kit Model: FAK-TRMK-1, National Safety Compliance (Vendor) Color: Orange 2. Mfg: Sports First Aid Ket Model: FAK/Sports - EMS Safety Services (Vendor) 3. Mfg: First Responder Kit Model: VRG-999207N (Vendor) Color: Blue 4. Mfg: First Responder Kit Model: VRG-999207 (Vendor) Color: Orange
13 1100	Swimming Pools and Equipment	Swimming Pool	Chemical Controllers	1. Mfg: Becks

CSI SPEC SECTION		PARK GUIDELINE SECTION	PRODUCT	SOUTH AGENCY PREFERRED MANUFACTURER
13 1100	Swimming Pools and Equipment	Swimming Pool	Swim Lane Cords	1. Mfg: Sheridan Storage Reel Model: 55525-00 Color: Stainless Steel 2. Mfg: Simple Storage Reel Model: 51-002 Color: Stainless Steel 3. Mfg: Stainless Storage Reel Model: (Vendor) Color: Stainless Steel 4. Mfg: Antiwave Pool Products (Vendor) Model: Antiwave - 25 Yards Color: Blue and white 5. Mfg: Antiwave - 50 meter Model: Antiwave Pool Products (Vendor) Color: Red and White
13 3430	Grandstands and Bleachers	Gym Bldg	Bleachers (Temporary and Retractable)	TEMPORARY BLEACHERS 1. Mfg: Highland Products Model: Tim-N-Roll Color: Varies 2. Mfg: Maxam Model: Varies 3. Mfg: Tomark Sports Model: TM-K14078 Color: Gray Finish: Aluminum RETRACTABLE BLEACHERS 1. Mfg: Maxam Bleachers Model: Varies 2. Mfg: Tomark Model: Varies 3. Mfg: Herk Edwards Inc. Model: #2600
13 3430	Grandstands and Bleachers	Ball Field	Bleachers (Aluminum or Wood)	1. Mfg: Tomark 2. Mfg: Her
13 3430	Grandstands and Bleachers	-Soccer Field -Volleyball Court	Bleachers (Aluminum or Wood)	1. Mfg: Herks 2. Mfg: Tomark

CSI SPEC SECTION	PARK GUIDELINE SECTION	PRODUCT	SOUTH AGENCY PREFERRED MANUFACTURER
<u>DIVISION 14: CONVEYING EQUIPMENT</u>			
No Preference			
<u>DIVISION 21: FIRE SUPPRESSION</u>			
21 0000	General	Fire Extinguishers	1. Mfg: Marx Bro
<u>DIVISION 22: PLUMBING</u>			
22 0000 Plumbing	Restroom Bldg	Toilets	1. Mfg: Acorn 3" Waste Model: 2100-T-1-CN-HS-FV Color: Satin Finish: Stainless Steel 2. Mfg: American Standard Model: 2477 Color: White Finish: Porcelain 3. Mfg: American Standard Finish: Stainless Steel 4. Mfg: Kohler Model: 4330 Color: White Finish: White/Stainless Steel
22 1319 Sanitary Waste Piping Specialties	Restroom Bldg	Floor Sink	1. Mfg: American Standard Model: 908-2 Color: White Finish: Enamel Over Cast Iron
22 1319 22 1319	Pool Bldg	Floor Drain	1. Mfg: A/O Smith
22 1319 Sanitary Waste Piping Specialties	Sports Field Concession Stand	Floor Drain	1. Mfg: A/O Smith Model: 2-415 9N Color: Chrome
22 3300 Domestic Water Heaters	Pool Bldg	Water Heaters	1. Mfg: American Model: Varies 2. Mfg: A/O Smith Model: Varies 3. Mfg: Rheem Model: Varies

CSI SPEC SECTION	PARK GUIDELINE SECTION	PRODUCT	SOUTH AGENCY PREFERRED MANUFACTURER
22 4210 Plumbing Fixtures	Restroom Bldg	Sinks	1. Mfg: Acorn Model: 1952-1-CSG-9-GT-TT Color: Satin Finish: S.S. 2. Mfg: Acorn Model: 1950-1-CSG-9-GT-TT Color: Satin Finish: Stainless Steel 3. Mfg: American Standard Model: 035G.041 Color: White Finish: Vitreous China 4. Mfg: Kohler
22 4210 Plumbing Fixtures	Pool Bldg	Sinks	1. Mfg: American Standard 2. Mfg: Kohler
22 4210 Plumbing Fixtures	Community Bldg	Janitor Mop Sink	1. Mfg: American Standard Model: 7692.d49 Color: White Finish: Enamel 2. Mfg: Kohler
22 4210 Plumbing Fixtures	Pool Bldg	Shower Fixtures	1. Mfg: Chicago Model: 770-669 Color: Chrome Finish: Chrome 2. Mfg: American Standard 3. Mfg: Kohler
22 4210 Plumbing Fixtures	Sports Field Concession Stand	Sinks	1. Mfg: ACORN Model: 1952-1-CSG-9-GT-TT Color: Satin Finish: Stainless Steel 2. Mfg: American Standard Model: 035G 041 Color: White Finish: Vitreous China

CSI SPEC SECTION	PARK GUIDELINE SECTION	PRODUCT	SOUTH AGENCY PREFERRED MANUFACTURER
22 4217	Waterless Urinals	Restroom Bldg	Standard and Waterless Urinals
			1. Mfg: Acorn Model: 2167-T-I-FV Color: Satin Finish: Stainless Steel 2. Mfg: American Standard Model: 6590-001 Color: White Finish: White/Stainless Steel 3. Mfg: American Standard Model: 6541-132 Color: White Finish: White/Stainless Steel 4. Mfg: Kohler Model: K-5016-ET-0 Color: White Finish: White/Stainless Steel
22 4713	Drinking Fountains	Restroom Bldg	Drinking Fountains (Wall Mounted)
			1. Mfg: Haws Corporation Model: 1118 BP Color: Satin Finish: Stainless Steel
22 4713	Drinking Fountains	Gym Bldg	Drinking Fountains (Wall Mounted)
			1. Mfg: Haws Model: 2400 Recessed Color: Natural Finish: Gloss 2. Mfg: Haws - Cooler Model: 2106 Color: Satin Finish: Stainless Steel 3. Mfg: Haws Model: 1118 BP Color: Stainless Steel Finish: Satin
22 4713	Drinking Fountains	Pool Bldg	Drinking Fountains (Wall Mounted)
			1. Mfg: Haws Model: 118BP Color: Satin Finish: Stainless Steel
22 4700	Drinking Fountains - Ball Fields Interior & Exterior	-Soccer Fields -Multi-Use Fields	Drinking Fountains
			1. Mfg: Haws Model: 1118 BP Color: Satin Finish: Stainless Steel
22 4700	Drinking Fountains - Park Furnishing Interior & Exterior		Drinking Fountains
			1. Mfg: Haws

CSI SPEC SECTION	PARK GUIDELINE SECTION	PRODUCT	SOUTH AGENCY PREFERRED MANUFACTURER
22 4700	Drinking Fountains - Dog Park Interior & Exterior	Dog Park Drinking Station	1. Mfg: Haws Model: 1118 BP Color: Satin Finish: Stainless Steel
<u>DIVISION 23: HEATING, VENTILATING AND AIR-CONDITIONING (HVAC)</u>			
23 7000	Central HVAC Equipment	Gym Bldg/Community HVAC System Bldg.	1. Mfg: Carrier (In Gym) Model: 48 TC "WeatherMaker" Color: Grey Finish: Package Unit (Roof Top) 2. Mfg: York (In Main Office) Model: H2RD Series Color: Brown Finish: Split System 3. Mfg: Friedrich Model: SS 12M10 Color: Grey/Black Finish: Window Mounting 4. Mfg: York (Heat pump) Model: XP120 Series Color: Brown Finish: Package Unit (Roof Top) 5. Mfg: Carrier Model: 38HDR060-321 Color: Grey Finish: Split Mounted (Vertical) Split System

CSI SPEC SECTION	PARK GUIDELINE SECTION	PRODUCT	SOUTH AGENCY PREFERRED MANUFACTURER
23 7000 Central HVAC Equipment	Pool Bldg	HVAC System	1. Mfg: Carrier Model: 48 TC "Weathermaker" Color: Grey Finish: Package Unit (Roof Top) 2. Mfg: York (in Main Office) Model: H2RD Series Color: Brown Finish: Split System 3. Mfg: Fredrich Model: SS 12M10 Color: Grey/Black Finish: Window Mounting 4. Mfg: York ModelXP120 Series: Color: Brown Finish: Package Unit (Roof Top) 5. Mfg: Carrier Model: 38HDR060-321 Color: Grey Finish: Split Mounted (vertical) Split System
DIVISION 26: ELECTRICAL			
26 5000 Swimming Pools and Equipment	Swimming Pool	Pool Lighting	1. Mfg: Pentair Water Model: IntelliBrite White LED, 5g, 120v, 500w Color: Stainless Steel Finish: Stainless Steel 2. Mfg: Pentair Water Model: LED only Color: Stainless Steel Finish: Stainless Steel
26 5100 Interior Lighting	Gym Bldg	Interior Lighting	1. Mfg: RAB, Hubbell, Maxilite, Leotek (LED Products Only)
26 5560 Theatrical Lighting and Controls	Gym Bldg	Stage Lighting	1. Mfg: RAB, Hubbell, Maxilite, Leotek (LED Products Only)
26 5600 Exterior Lighting	Pool Bldg	Exterior Lighting	1. Mfg: RAB (LED Products Only) 2. Mfg: Maxlife (LED Products Only)

CSI SPEC SECTION		PARK GUIDELINE SECTION	PRODUCT	SOUTH AGENCY PREFERRED MANUFACTURER
26 5600	Exterior Lighting	Restroom Bldg	Exterior Lighting	1. Mfg: RAB (LED Products Only) 2. Mfg: Maxlite (LED Products Only)
26 5610	Exterior Lighting	Security Lighting	Walkway Lights	1. Mfg: RAB (LED Products Only) 2. Mfg: Maxlite (LED Products Only)
26 5620	Lighting Poles, Standards and Bases	Security Lighting	Parking Lot Standards	1. Mfg: GE 454641.ies (ERS2) Model: HXCX Color: Grey Finish: Polyester Powder Painted 2. Mfg: GE Model: EASM-E3,57,A Color: DKBZ Finish: Polyester Powder Paint 3. Mfg: GE Model: EAMM-M3-57-A Color: DKBZ Finish: Polyester Powder Painted 4. Mfg RAB (LED) 5. Mfg: Maxlite (LED)
26 5620	Lighting Poles, Standards and Bases	Park Furnishings	Security Lighting	1. Mfg: RAB, Hubbell, Maxilite, Leotek (LED Products Only)
26 5660	Exterior Athletic Lighting	-Soccer Field -Multi-Use Court -Ballfields	Court Lighting	1. Mfg: Monterey Lighting Model: LED 750W 2. Mfg: RAB (LED Products) 3. Mfg: Maxlite (LED Products)
26 5660	Exterior Athletic Lighting	Tennis Court	Court Lighting	1. Mfg: Visionire Lighting Model: 750 Watt H2D Pulse-Start Color: LED Lighting Finish: Varies 2. Mfg: RAB (LED Products) 3. Mfg: Maxilite (LED Products)
26 5660	Exterior Athletic Lighting	Basketball Court	Court Lighting	1. Mfg: Graybar 2. Mfg: Monterey Lighting 3. Mfg: RAB (LED Products) 4. Mfg: Maxilite (LED Products)

CSI SPEC SECTION	PARK GUIDELINE SECTION	PRODUCT	SOUTH AGENCY PREFERRED MANUFACTURER
26 5660 Exterior Athletic Lighting	Volleyball Court	Court Lighting	1. Mfg: Varies Model: Metal Halide Color: Pulse-Start 2. Mfg: LED Lighting Model: Varies 3. Mfg: RAB (LED Products) 4. Mfg: Maxilite (LED Products)
26 5660 Exterior Athletic Lighting	Skate Park	Sport Lighting	1. Mfg: Musco Lighting Model: 1500 W 2. Mfg: Monterey Lighting Model: 750 W, Hid 3. Mfg: Monterey Lighting Model: 450 W LED 4. Mfg: RAB (LED Products) 5. Mfg: Maxilite (LED Products)
<u>DIVISION 27: COMMUNICATIONS</u>			
27 4000 Audio-Visual Communications	Gym Bldg	Public Address System - Speakers	1. Mfg: Fender Model: Varies 2. Mfg: Guitar Center (Vendor) Model: Varies 3. Mfg: Best Buy (Vendor) Model: Varies
27 5000 Communications	Gym Bldg	Telephone System	1. Mfg: Nortel Networks 2. Mfg: Avaya Inc. 3. Mfg: CISCO 4. Mfg: ISD
<u>DIVISION 28: ELECTRONIC SAFETY AND SECURITY</u>			

CSI SPEC SECTION	PARK GUIDELINE SECTION	PRODUCT	SOUTH AGENCY PREFERRED MANUFACTURER
28 2030 Video Surveillance	Security & Safety	Security Cameras (Monitoring Systems)	1. Mfg: Delco Model: Spectra IV IP PT2 Network Camera Color: White Finish: Matte 2. Mfg: Pelco Model: Spectra HD Color: White Finish: Matte Notes: All cameras are to be networked based with room provided in the server for cameras and expandability. Remote viewing is a must. 3. Mfg: Crimpoint

DIVISION 31: EARTHWORK

No Preference

DIVISION 32: EXTERIOR IMPROVEMENTS

32 1540 Decomposed Granite Paving	Pedestrian Circulation	Decomposed Granite	1. Mfg: Gail Materials 2. Mfg: Whittier Fertilizer 3. Mfg: Sands Building Materials
32 1540 Decomposed Granite Surface	Pedestrian Circulation	Decomposed Granite Stabilized	1. Mfg: Gail Materials 2. Mfg: Whittier Fertilizer 3. Mfg: Sands Building Materials
32 1540 Decomposed Granite Surface	Fitness Zone	Surface Materials	1. Mfg: Sands Building Materials 2. Mfg: Whittier Fertilizer 3. Mfg: Gail Materials
32 1713 Parking Bumpers	Parking Lot	Wheel Stops	1. Mfg: Model: Concrete
32 1821 Specialty Sports Soils	Ball Fields	Brick Dust	1. Mfg: Corona Clay
32 1840 Playground Protective Surfaces	Splash Pad	Engineered Wood Fiber Surfacing	1. Mfg: Cross Road Mulch Model: Wood Fiber

CSI SPEC SECTION		PARK GUIDELINE SECTION	PRODUCT	SOUTH AGENCY PREFERRED MANUFACTURER
32 3110	Decorative & Ornamental Fences and Gates	Individual Picnic Areas	Steel Picket Fencing	1. Mfg: Bobco Metals Model: Rod-Iron
32 3113	Chainlink Fences and Gates	Ball Fields	Chainlink Fence	1. Mfg: Model: 9 Guage
32 3113	Chainlink Fences and Gates	Individual Picnic Areas	Chainlink Fencing	1. Mfg: Wolverine Model: 9 Guage 2. Mfg: American/Quality Fence/California Fence Model: 9 Guage
32 8400	Planting Irrigation	Irrigation	Master Valve	1. Mfg: Superior #805 Model: 2" and JP 2. Mfg: Superior #805 Model: Up to 3" 3. Mfg: Cla-Valve Model: Up to 4"
32 4100	Bollards	Parking Lot	Bollards	1. Mfg: RAB (LED)
32 8000	Irrigation	Irrigation	Flow Sensor	1. Mfg: Rainbird Model: Maxicom MDC2 Color: Black Finish: Plastic 2. Mfg: Rain Bird Model: F53508 Color: Black Finish: Plastic
32 8400	Planting Irrigation	Irrigation	Weather Based Irrigation Controller	1. Mfg: WeatherTrak
32 8400	Planting Irrigation	Irrigation	Backflow Prevention Devise	1. Mfg: Watts Model: 909 Color: Brass OR Finish: Epoxy 2. Mfg: Wilkins Model: 375 Finish: Epoxy

CSI SPEC SECTION	PARK GUIDELINE SECTION	PRODUCT	SOUTH AGENCY PREFERRED MANUFACTURER
32 8400	Planting Irrigation	Irrigation	Backflow Devise Lockable Enclosure 1. Mfg: Cold Rolled Steel Model: BL-30 6R Color: Green Finish: Powder Coat 2. Mfg: Guard Shack Model: 33010135 Color: Green Finish: Powder Coat
32 8400	Planting Irrigation	Irrigation	Pressure Regulator 1. Mfg: CLA-VAL Model: 100-01 Color: Cast Iron Finish: Epoxy 2. Mfg: Wilkins Model: 2W109 Finish: Epoxy
32 8400	Planting Irrigation	Irrigation	Manual Control Valves (Gate or Globe) 1. Mfg: NIBCO Model: T-113 Finish: Brass 2. Mfg: Kennedy Model: KS-FW Color: Orange Finish: Epoxy
32 8400	Planting Irrigation	Irrigation	Remote Control Valves 1. Mfg: Superior 805 Model: GB Color: Brass
32 8400	Planting Irrigation	Irrigation	Check Valves (Anti-Drain Valves) 1. Mfg: King-Bros Model: CV 300 Color: Black Finish: Plastic
32 8400	Planting Irrigation	Irrigation	Quick Couplers 1. Mfg: Rainbird Model: 33-DRC Color: Brass Finish: Plastic

CSI SPEC SECTION	PARK GUIDELINE SECTION	PRODUCT	SOUTH AGENCY PREFERRED MANUFACTURER
32 8400 Planting Irrigation	Irrigation	Valve Boxes (Traffic and Non Traffic)	1. Mfg: Christy-Concrete Model: B-9 Color: Finish: Concrete 2. Mfg: Carson Model: 1419 Color: Green Finish: Plastic 3. Mfg: Rainbird Model: VB-STD Color: Green Finish: Plastic 4. Mfg: Marsand Irrigation
32 8400 Planting Irrigation	Irrigation	Valve Box Covers (Reclaimed Water Control Valves)	1. Mfg: Rain Bird Model: VB-5TDP Color: Black Body Finish: Purple Lid 2. Mfg: Rain Bird Model: 7" Round VB-7RND Color: Black Body Finish: Purple Lid
32 8400 Planting Irrigation	Irrigation	Sensors (Rain, Wind, etc.)	1. Mfg: Rainbird Model: WS-PRO@-PH5 Finish: Stainless Steel
32 8400 Planting Irrigation	Irrigation	Spray Heads (Rotor)	1. Mfg: Rainbird Model: 5500, 7005, 8005 SS Color: Stainless Steel Riser Finish: Black

CSI SPEC SECTION		PARK GUIDELINE SECTION	PRODUCT	SOUTH AGENCY PREFERRED MANUFACTURER
32 8400	Planting Irrigation	Irrigation	Spray Heads (Fixed)	1. Mfg: Rain Bird Model: 1804, 1806, 1812 (SAM) Color: Black Finish: Concrete 2. Mfg: Rain Bird Model: 15Q, 15F, 15H, 15T, 15TT 3. Mfg: Rainbird Model: 12Q, 12F, 12H, 15T, 15TT Color: Green Finish: Plastic 4. Mfg: Rainbird Model: 10Q, 10F, 10H, 10T, 10TT 5. Mfg: Rainbird Model: 8Q, 8H, 8T, 8TT
32 8400	Planting Irrigation	Irrigation	Spray Heads (Stream Spray)	1. Mfg: Rain Bird Model: R-13-18F, R13-18TQ, R13-18TT, R13-18H, R13-18T, R13-18Q Color: Black 2. Mfg: Rain Bird Model: R17-24F, R17-24TQ, R17-24TT, R17-24H, R17-24T, R17-24Q Color: Yellow
32 9120	Mulches, Chemicals and Nutrients	Landscaping	Organic Mulch	1. Mfg: Ag Organics 2. Mfg: Whittier Fertilizer Model: Medium Bark
32 9455	Tree Staking Systems	Landscaping	Tree Staking Systems	1. Mfg: VIT Products
<u>DIVISION 33: UTILITIES</u>				
33 4000	Storm Water Drains	Grading and Drainage	Traffic and Non-Traffic Covers	1. Mfg: (Varies) Use Concrete Box w/ Cast Iron Lid

CSI SPEC SECTION	PARK GUIDELINE SECTION	PRODUCT	NORTH AGENCY PREFERRED MANUFACTURER
<u>DIVISION 4: MASONRY</u>			
No Preference			
<u>DIVISION 5: METALS</u>			
05 7030 Skateboard Deterrents	Park Furnishing	Skateboard Guards	1. Mfg: Skate Stoppers Model: Varies
<u>DIVISION 6: WOOD, PLASTICS AND COMPOSITES</u>			
06 4020 Cabinet Hardware	Community Bldg	Cabinets and Hardware	1. Mfg: Dwyer Products Model: Greenguard Certified 2. Mfg: Executive Cabinetry, LLC
<u>DIVISION 8: OPENINGS</u>			
08 1000 Doors and Frames	Restroom Bldg	Doors and Hardware	1. Mfg: Yale Model: 8800 Series AUR Augusta Color: Stainless Steel 2. Mfg: Yale Model: 8805 Series Storeroom (F07) Color: Stainless Steel
08 8300 Mirrors	Restroom Bldg	Mirrors	1. Mfg: Meek Model: M5300 Snap Frame Finish: Stainless Steel
08 8300 Mirrors	Pool Building	Mirrors	1. Mfg: Bobrick

CSI SPEC SECTION	PARK GUIDELINE SECTION	PRODUCT	NORTH AGENCY PREFERRED MANUFACTURER
<u>DIVISION 9: FINISHES</u>			
09 6400 Flooring	Community Bldg	Staff Office - Flooring	1. Mfg: Go Green Flooring Model: Bamboo 2. Mfg: USFloors Model: Cork 3. Mfg: Armstrong Model: Linoleum 4. Mfg: Signature Sports Flooring Model: Recycled Rubber 5. Mfg: FSC Certified Model: Reclaimed/ Recycled Hardwoods
09 6500 Resilient Flooring	Community Bldg	Flooring	1. Mfg: Go Green Flooring Model: Bamboo Color: www.gogreenflooring.com 2. Mfg: USFloors Model: Cork Color: www.usfloorsllc.com 3. Mfg: Armstrong Model: Linoleum Color: www.armstrong.com 4. Mfg: Signature Sports Flooring Model: Recycled Rubber www.signaturesportsflooring.com 5. Mfg: FSC Certified Model: Reclaimed/Recycled Hardwoods Color: http://us.fsc.org

CSI SPEC SECTION	PARK GUIDELINE SECTION	PRODUCT	NORTH AGENCY PREFERRED MANUFACTURER
<u>DIVISION 10: SPECIALTIES</u>			
10 1100 Visual Display Units	Community Bldg	Blackboard/Whiteboard	1. Mfg: Balt Model: 2H2NA Markerboard Color: www.coorecoinc.com 2. Mfg: VividBoard Model: Custom Whiteboards Color: www.vividboard.com
10 1100 Visual Display Surfaces	Community Bldg	Bulletin Boards/Pin Boards	1. Mfg: Balt Model: E300PB Coark Board Color: www.moorecoinc.com 2. Mfg: Jayhawk Plastics Model: Message Boards
10 2800 Toilet, Bath and Laundry Specialties	Restroom Bldgs	Soap Dispenser	1. Mfg: Maintex Model: 2324065 Color: White
10 2800 Toilet, Bath and Laundry Specialties	Pool Bldg	Soap Dispenser	1. Mfg: Bobrick
10 2800 Toilet, Bath and Laundry Specialties	Restroom Bldg	Hand Dryers	1. Mfg: Xlerator Hand Dryers Model: XL-SB Finish: Stainless Steel Brushed
10 2800 Toilet, Bath and Laundry Specialties	Restroom Bldg	Toilet Seat Cover Dispenser	1. Mfg: Health Guards
10 2800 Toilet Seat Cover Dispensers	Pool Bldg	Toilet Seat Cover Dispensers	1. Mfg: Bobrick
10 2800 Toilet, Bath and Laundry Specialties	Restroom Bldg	Toilet Paper Dispenser	1. Mfg: Royce Rools Ringer Co. Model: TP-2 Finish: Stainless Steel
10 2800 Toilet, Bath and Laundry Specialties	Restroom	Toilet Paper Dispenser	1. Mfg: Bobrick
10 2800 Toilet, Bath and Laundry Specialties	Maintenance Bldg/Yard	Equipment and Fixtures	1. Mfg: Bobrick Model: Bobrick Green
10 2800 Toilet, Bath and Laundry Specialties	Pool Bldg	ADA Grab Bars	1. Mfg: Bobrick
10 2800 Toilet, Bath and Laundry Specialties	Restroom Bldg	ADA Grab Bars	1. Mfg: Bobrick Model: B-6806

CSI SPEC SECTION		PARK GUIDELINE SECTION	PRODUCT	NORTH AGENCY PREFERRED MANUFACTURER
10 5000	Storage Specialties	Community Bldg	Janitor Room Shelving	1. Mfg: All-Green Janitorial Products Model: Various 2. Mfg: Green Seal Certified Products Model: Various 3. Mfg: Sustainable Supply Model: Various 4. Mfg: Green Clean Institute
10 7300	Protective Covers	Ball Field	Shade Covers for Dugouts	1. Mfg: USA Shade (Vendor)
10 7300	Protective Covers	Ball Field	Shade Covers for Bleachers	1. Mfg: USA Shade (Vendor)
10 7340	Fabric Shade Canopies	Childrens Play Area	Shade Sails	1. Mfg: USA Shade Structures
10 7340	Fabric Shade Canopies	Splash Pads	Shade Sails	1. Mfg: USA Shade
10 7360	Site and Street Shelters	Group Picnic Area	Shade Shelter	1. Mfg: Ortco, Inc. 2. Mfg: Poligon Park Architecture Model: Varies
10 7360	Site and Street Shelters	Individual Picnic Areas	Shade Shelter	1. Mfg: Poligon Park Architecture
<u>DIVISION 11: EQUIPMENT</u>				
11 4000	Foodservice Equipment	Community Bldg	Kitchen Appliances	1. Mfg: Model: Energy Star appliances
11 4000	Foodservice Equipment	Sports Field Concession Stand	Kitchen Appliances	1. Mfg: Stero - Dishwasher Model: ST24 SERIES 2. Mfg: ACP - Microwave Model: Hi Performance Commercial 3. Mfg: True - Refrigerator Model: T-35 Series 4. Mfg: Vulcan - Overn Model: Endurance Wolf Challenger ITWFood Equipment Group

CSI SPEC SECTION		PARK GUIDELINE SECTION	PRODUCT	NORTH AGENCY PREFERRED MANUFACTURER
11 5200	Audio-Visual Equipment	Community Bldg	Audio Visual Equipment - Screens	1. Mfg: Draper Audio Visual Products Model: Ecomatt Color: www.draperinc.com 2. Mfg: Da-Lite Model: Multiple products Color: www.da-lite.com
11 5200	Audio-Visual Equipment	Community Bldg	AudioVisual Equipment - Electronic Equipment	1. Mfg: EPEAT - registered electronics Model: Electronic Product Environmental Assessment Tool Color: www.epeat.net 2. Mfg: EPA Product Stewardship Model: Color: www.epa.gov
11 6600	Athletic and Recreational Equipment	Ball Field	Bat Racks	1. Mfg: Tomark Sports Model: K10997 In-ground 2. Mfg: Tomark Sports Model: K10998 Surface-mount
11 6600	Athletic and Recreational Equipment	Ball Field	Bases	1. Mfg: Tomark Sports Model: K10244
11 6600	Athletic and Recreational Equipment	Ball Field	Batting Cages	1. Mfg: Tomark Sports Model: K10996
11 6600	Athletic and Recreational Equipment	Ball Field	Foul Ball Poles	1. Mfg: Tomark Sports Model: PRO30-13
11 6600	Athletic and Recreational Equipment	Ball Field	Outfield Fencing with Cap Padding	1. Mfg: Tomark Sports Model: K14065 Color: TBD
11 6600	Athletic and Recreational Equipment	Ball Field	Pole Padding	1. Mfg: Tomark Sports Model: K14065 Color: TBD 2. Mfg: Becon Athletics
11 6600	Athletic and Recreational Equipment	Ball Field	Softball/Baseball Backstop	1. Mfg: Tomark Sports Model: K13606

CSI SPEC SECTION		PARK GUIDELINE SECTION	PRODUCT	NORTH AGENCY PREFERRED MANUFACTURER
11 6600	Athletic and Recreational Equipment	Soccer/Multi-Use Court	Field Lighting Pole Padding	1. Mfg: Beacon Athletics
11 6600	Athletic and Recreational Equipment	Basketball Court	Pole and Backboard	1. Mfg: Porter Athletic Co. Model: 90950-000 w/ annual height adjuster
11 6600	Athletic and Recreational Equipment	Tennis Court	Poles and Net	1. Mfg: Tomark Sports Model: K42493
11 6600	Athletic and Recreational Equipment	Volleyball Court	Steel Poles	1. Mfg: Tomark Sports Model: K72355
11 6600	Athletic and Recreational Equipment	Volleyball Court	Net	1. Mfg: Tomark Model: SENOH HM-50 net system
11 6600	Athletic and Recreational Equipment	Volleyball Court	Court Rope Lines	1. Mfg: Volleyball USA Model: 2" Pro Adjustable Lines Color: TBD
11 6600	Athletic and Recreational Equipment	Gym Bldg	Basketball Standards	1. Mfg: Performance Sports Systems (PSS) Model: 3207-25RA, 3107-25RA, LXP4200 & 2500, PMCE, 1194, 1100, and 1131
11 66003	Athletic and Recreational Equipment	Gym Bldg	Wall Padding	1. Mfg: Promats Athletics Model: 4110-STD & 4196-23-00
11 6640	Scoreboards	Gym Bldg	Scoreboard	1. Mfg: Fair-Play by Trans Model: MP-70/50
11 6640	Scoreboards	Ball Field	Scoreboards	1. Mfg: Daktronics Model: BA-2029
11 6640	Scoreboards	Soccer/Multi-Use Court	Scoreboards	1. Mfg: Daktronics Model: SO-2008-R/A w/LED
11 6640	Scoreboards	Basketball Court	Indoor Basketball Scoreboards	1. Mfg: Daktronics Model: BB-2101-13 2. Mfg: Daktronics Model: BB-2114-13 Shot Clock

CSI SPEC SECTION		PARK GUIDELINE SECTION	PRODUCT	NORTH AGENCY PREFERRED MANUFACTURER
11 6440	Swimming Pools and Equipment	Swimming Pool	Electronic Scoreboard	1. Mfg: Inground Colorado Model: Full Color Indoor LED Matrix 2. Mfg: Portable Colorado Model: LED Scoreboard
11 6710	Outdoor Fitness Trails and Stations	Fitness Zone	Exercise Equipment	1. Mfg: Greenfield Sports Parks, Inc. Model: Varies
11 6860	Skateboard Facilities	Skate Park	On-Grade Skate Elements	1. Mfg: Spohn Ranch 2. Mfg: American Ramp Company
11 8600	Play Structures	Children's Play Area	Play Equipment Components	1. Mfg: Miracle Model: Varies 2. Mfg: Landscape Structures Inc. Model: Varies 3. Mfg: GameTime Model: Varies
11 6800	Play Structures	Children's Play Area	Climbing Boulders or Animal Sculptures	1. Mfg: Miracle Playground Model: Varies 2. Mfg: Landscape Structures Inc. Model: Varies
11 6840	Spray Parks	Splash Pad	Spray Elements	1. Mfg: Vortex 2. Mfg: Water Play Solutions

CSI SPEC SECTION	PARK GUIDELINE SECTION	PRODUCT	NORTH AGENCY PREFERRED MANUFACTURER	
<u>DIVISION 12: FURNISHINGS</u>				
12 3600	Countertops	Community Bldg	Counters	1. Mfg: EnviroGLAS Model: EnviroGLAS Terrazzo 2. Mfg: Paperstone Model: Certified 3. Mfg: Renewed Materials, LLC. Model: Alkemi 4. Mfg: Ecoverings Model: Bio-Glass 5. Mfg: IceStone Model: Recycled Glass Surfaces
12 5000	Furniture	Community Bldg	Staff Offices - Cabinets	1. Mfg: Model: Formaldehyde-free units made of solid wood responsibly harvested from managed forests Finish: Low-VOC
12 5000	Furniture	Community Bldg	Staff Offices - Storage	1. Mfg: Sanduskey Lee Corp Model: Greenguard Certified 2. Mfg: Steel Solutions USA Model: Greenguard Certified
12 5000	Furniture	Community Bldg	Reception Chairs	1. Mfg: Herman Miller Model: Various 2. Mfg: Chromcraft, Inc. Model: Greenguard certified
12 5140	Wood and Plastic-Laminate Office Furniture	Community Bldg	Staff Offices - Desks	1. Mfg: Formaldehyde-free units made of solid wood responsibly harvested from managed forests Finish: Low-VOC
12 5624	Educational Furniture	Gym Bldgs	Classroom Tables	1. Mfg: Paragon Inc. Model: NEST-IT Finish: Low Emitting Products 2. Mfg: Paragon Inc. Model:TLEG-IT Finish: Low Emitting Products 3. Mfg: Midwest Model: Cantilever TL Leg Training Table 4. Mfg: Smith System Model: Planner Activity Table 5. Mfg: Virco Model:4000 Series Activity Tables

CSI SPEC SECTION		PARK GUIDELINE SECTION	PRODUCT	NORTH AGENCY PREFERRED MANUFACTURER
12 6200	Portable Audience Seating	Gym Bldg	Folding/Stacking Chairs	1. Mfg: Herman Miller Model: Air-Chair Color: www.hermanmiller.com 2. Mfg: Herman Miller Model: Folding Air-Chair 3. Mfg: Herman Miller Model: Troy Chair 4. Mfg: Herman Miller Model: Branca Chair 5. Mfg: Paragon Inc. Model: 3508-18 Color: www.Paragon-inc.com
12 9300	Site Furnishings	Park Furnishing	Barbeque Grills	1. Mfg: R.J. Thomas Model: N-0 B2/ C2-36B2
12 9300	Site Furnishings	Maintenance Bldg/Yard	Cargo Containers	1. Mfg: Aztec Containers
12 9319	Bicycle Racks	Park Furnishing	Bicycle Racks	1. Mfg: Innovative Playground 2. Mfg: L.A. Steel 3. Mfg: Burke 4. Mfg: Miracle Playgrounds
12 9320	Trash and Litter Receptors	Park Furnishing	Trash and Litter Receptors	1. Mfg: Innovative Playgrounds 2. Mfg: L.A. Steel 3. Mfg: Burke 4. Mfg: Miracle Playgrounds
12 9320	Trash and Litter Receptors	Park Furnishing	Hot Coal Receptacles	1. Mfg: Innovative Playgrounds 2. Mfg: L.A. Steel 3. Mfg: Burke 4. Mfg: Miracle Playgrounds
12 9340	Site Seating, Benches and Tables	Ball Field	Player Benches	1. Mfg: National Recreation Systems Model: PB
12 9340	Site Seating, Benches and Tables	Sports Field	Player Benches	1. Mfg: National Recreation Systems
12 9340	Site Seating, Benches and Tables	Basketball Court	Player Benches	1. Mfg: National Recreation Systems

CSI SPEC SECTION		PARK GUIDELINE SECTION	PRODUCT	NORTH AGENCY PREFERRED MANUFACTURER
12 9340	Site Seating, Benches and Tables	Basketball Court -Skate Park	Benches	1. Mfg: National Recreation Systems Model: DGS
12 9340	Site Seating, Benches and Tables	Park Furnishing	Benches	1. Mfg: Outdoor Creations
12 9340	Site Seating, Benches and Tables	Park Furnishing	Picnic Tables	1. Mfg: Outdoor Creations Model: Model #109 w/ADA Companion Seating Finish: Concrete
<u>DIVISION 13: SPECIAL CONSTRUCTION</u>				
13 1100	Swimming Pools and Equipment	Swimming Pool	Pool Ladders	1. Mfg: Recessed Steps - Spectrum Model: 23450 Stainless Steel 2. Mfg: Pool Ladders are built into the wall as recessed steps Model: Recessed Steps - KDI Paragon Color: 32102 Stainless Steel
13 1100	Swimming Pools and Equipment	Swimming Pool	Pool Handrails	1. Mfg: Spectrum Model: Varies 2. Mfg: KDI Paragon Model: Varies
13 1100	Swimming Pools and Equipment	Swimming Pool	Diving Boards	1. Mfg: Duraform One-Meter Diving Stand Model: 16'
13 1100	Swimming Pools and Equipment	Swimming Pool	Chemical Controllers	1. Mfg: Becks
13 1100	Swimming Pools and Equipment	Swimming Pool	Swim Lane Cords	1. Mfg: Anti-Wave Model: Fourerunner
13 1100	Swimming Pools and Equipment	Swimming Pool	Buoys	1. Mfg: Spectrum Model: #72310, #72360, #72370

CSI SPEC SECTION		PARK GUIDELINE SECTION	PRODUCT	NORTH AGENCY PREFERRED MANUFACTURER
13 1100	Swimming Pools and Equipment	Swimming Pool	Pool Cover	1. Mfg: T-Star Enterprise, Inc. Model: Varies 2. Mfg: Spectrum Pool Products Model: Varies
13 3425	Mini-Storage Buildings	Park Furnishing	Bicycle Storage	1. Mfg: Innovative Playgrounds 2. Mfg: L.A. Steel 3. Mfg: Burke 4. Mfg: Miracle Playgrounds
13 3425	Mini-Storage Buildings	Park Furnishing	Ball Field Maintenance Equipment Storage	1. Mfg: Aztec Containers Model: Varies
13 3430	Grandstands and Bleachers	Gym Bldg	Bleachers (Temporary and Retractable)	1. Mfg: Maxima Telescopic Seating
13 3430	Grandstands and Bleachers	Ball Field	Bleachers (Aluminum or Wood)	1. Mfg: Tomark Sports 2. Mfg: National Recreation Systems
13 3430	Grandstands and Bleachers	-Soccer Field -Volleyball Court	Bleachers (Aluminum or Wood)	1. Mfg: Tomark Sports 2. Mfg: National Recreation
13 3430	Grandstands and Bleachers	-Multi-Use Court -Skate Park	Bleachers	1. Mfg: Tomark Sports 2. Mfg: National Recreation
13 3430	Grandstands and Bleachers	Volleyball Court	Spectator Benches	1. Mfg: Tomark Sports 2. Mfg: National Recreation Systems

DIVISION 14: CONVEYING EQUIPMENT

14 4000	Lifts	Swimming Pools	ADA Chair Lifts	1. Mfg: Spectrum Swim-Lift Series Model: Traveler, II XRC500
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DIVISION 21: FIRE SUPPRESSION

CSI SPEC SECTION		PARK GUIDELINE SECTION	PRODUCT	NORTH AGENCY PREFERRED MANUFACTURER
21 1300	Fire-Suppression Sprinkler Systems	Community Bldg	Fire Sprinklers	1. Mfg: NFPA 750 Water-Mist System 2. Mfg: NFPA 2110 Clean-Agency Systems 3. Mfg: NFPA 72 Fire Detection and Alarm Systems 4. Mfg: Western States Fire Protection Co.
<u>DIVISION 22: PLUMBING</u>				
22 0000	Plumbing	Restroom Bldg	Toilets	1. Mfg: American Standard Model: 2294.011 Color: White 2. Mfg: Sloan Royal Flush Valve Model: 110 or 111 Low Consumption
22 4210	Plumbing Fixtures	Restroom Bldg	Sinks	1. Mfg: American Standard Model: 0356.115 Color: White 2. Mfg: Chicago Faucets Model: 807-665PSH
22 4210	Plumbing Fixtures	Community Bldg	Janitor Mop Sink	1. Mfg: Turbo Air Model: High Quality 304 Stainless Steel TSA-1-N Color: Stainless
22 4210	Plumbing Fixtures	Community Bldg	Sinks	1. Mfg: Eleek Model: Recycled Materials 2. Mfg: Model: Recycled Aluminum 3. Mfg: Model: Stainless Steel
22 4210	Plumbing Fixtures	Pool Bldg	Shower Fixtures	1. Mfg: Zurn
22 4210	Plumbing Fixtures	Pool Bldg	Sinks	1. Mfg: Zurn ModelAquaSense Sensor Faucets:
22 4210	Plumbing Fixtures	Pool Bldg	Urinals	1. Mfg: Zurn Model: Aquasense AV Model

CSI SPEC SECTION		PARK GUIDELINE SECTION	PRODUCT	NORTH AGENCY PREFERRED MANUFACTURER
22 4217	Waterless Urinals	Restroom Bldg	Standard and Waterless Urinals	1. Mfg: American Standard Model: 6501-010 Color: White 2. Mfg: Sloan Royal Flush Valve Model: 186-1
22 4713	Drinking Fountains	Restroom Bldg	Drinking Fountains (Wall Mounted)	1. Mfg: Haws Corporation Model: 1025 Color: Dark Green
22 4713	Drinking Fountains	Gym Bldg	Drinking Fountains (Wall Mounted)	1. Mfg: Haws Corporation Model: 1025 Color: Dark Green
22 4700	Drinking Fountains - Interior & Exterior	-Ball Fields -Soccer Fields -Multi-Use Fields	Drinking Fountains	1. Mfg: HAWWS
<u>DIVISION 23: HEATING, VENTILATING AND AIR-CONDITIONING (HVAC)</u>				
23 7000	Central HVAC Equipment	Community Bldg	HVAC System	1. Mfg: ASHRAE Manual J and D 2. Mfg: Energy Star Model: SEER 14 or higher 3. Mfg: Trane Model: EarthWise systems
<u>DIVISION 26: ELECTRICAL</u>				
26 5000	Swimming Pools and Equipment	Swimming Pool	Pool Deck Lighting	1. Mfg: Phillips Gardco Model: G18 Area Luminaires 2. Mfg: Phillips Gardco Model: Designer Flood DF12-12" Diameter 3. Mfg: Phillips Gardco Model: G13 Area Luminaires
26 5000	Swimming Pools and Equipment	Swimming Pool	Pool Lighting	1. Mfg: Pentair Intelibrite White LED Model: Commercial Underwater Pool Light 2. Mfg: J & J Eletronics Model: Varies

CSI SPEC SECTION		PARK GUIDELINE SECTION	PRODUCT	NORTH AGENCY PREFERRED MANUFACTURER
26 5600	Exterior Lighting	Restroom Bldg	Exterior Lighting	1. Mfg: Kenall Herculux Model: H69D (5000) Wall Mount 2. Mfg: Kenall Herculux Model: H99D (5300) Ceiling Mount 3. Mfg: Appalachian Lighting System Model: WP1 Wall Mount 4. Mfg: Appalachian Lighting System Model: CL Canopy Mount
26 5600	Exterior Lighting	Pool Bldg	Exterior Lighting	1. Mfg: Phillips - Gardco Model: Gullwing G18 & G13 Area Luminaires 2. Mfg: Lithonia Lighting Model: VR1BH 3. Mfg: Phillips - Gardco Model: Designer Flood DF12-12" Diameter 4. Mfg: Kenall Model: NOVA II N104048 Series 7200
26 5620	Lighting Poles, Standards and Bases	Park Furnishings	Security Lighting	1. Mfg: Kendall 2. Mfg: Herculux
26 5660	Exterior Athletic Lighting	Tennis Court	Court Lighting	1. Mfg: Musco
26 5660	Exterior Athletic Lighting	Basketball Court	Court Lighting	1. Mfg: Musco Lighting
26 5660	Exterior Athletic Lighting	Volleyball Court	Court Lighting	1. Mfg: Musco
26 5660	Exterior Athletic Lighting	Skate Park	Sport Lighting	1. Mfg: Musco

CSI SPEC SECTION	PARK GUIDELINE SECTION	PRODUCT	NORTH AGENCY PREFERRED MANUFACTURER	
<u>DIVISION 27: COMMUNICATIONS</u>				
27 5000	Communications	Community Bldg	Staff Offices - Telephone Conference	1. Mfg: Green Electronics Council 2. Mfg: Electronic Product Environmental Assessment Tool
<u>DIVISION 28: ELECTRONIC SAFETY AND SECURITY</u>				
No Preference				
<u>DIVISION 31: EARTHWORK</u>				
No Preference				
<u>DIVISION 32: EXTERIOR IMPROVEMENTS</u>				
32 1313	Concrete Color Additives	Splash Pad	Concrete Coloring	1. Mfg: Colorful Admixtures Inc. Color: Varies 2. Mfg: Davis Colors Color: Varies
32 1821	Specialty Sport Soils	Volleyball Court	Sand	1. Mfg: Varies Model: Use washed masonry sand or equal (for texture)
32 1828	Tennis Court Surfacing	Tennis Court	Tennis Court Surfacing	1. Mfg: Malibu Pacific Tennis Courts (Vendor) Model: Plexipave Acrylic Court Surfacing System
32 1840	Playground Protective Surfaces	Splash Pad	Engineered Wood Fiber Surfacing	1. Mfg: Recycled Wood Products 2. Mfg: ABCO Development
32 3110	Decorative & Ornamental Fences and Gates	Skate Park	Decorative Fencing	1. Mfg: Ameristar
32 8400	Planting Irrigation	Irrigation	Weather Based Irrigation Controller	1. Mfg: Weather Track
32 8400	Planting Irrigation	Irrigation	Master Valve	1. Mfg: Griswald
32 8000	Irrigation	Irrigation	Flow Sensor	1. Mfg: Rainbird

CSI SPEC SECTION		PARK GUIDELINE SECTION	PRODUCT	NORTH AGENCY PREFERRED MANUFACTURER
32 8400	Planting Irrigation	Irrigation	Backflow Prevention Device	1. Mfg: Febco Model: 825YRP
32 8400	Planting Irrigation	Irrigation	Backflow Device Lockable Enclosure	1. Mfg: Hotbox Stainless Steel
32 8400	Planting Irrigation	Irrigation	Pressure Regulator	1. Mfg: Watts 2. Mfg: Wilkens
32 8400	Planting Irrigation	Irrigation	Manual Control Valves (Gate or Globe)	1. Mfg: Muller for larger than 2" 2. Mfg: Nibco Ball Valve Finish:Brass
32 8400	Planting Irrigation	Irrigation	Remote Control Valves	1. Mfg: Griswald Model: 2000 Series
32 8400	Planting Irrigation	Irrigation	Quick Couplers	1. Mfg: Rainbird Model: #44 2. Mfg: Rainbird Model: #33D
32 8400	Planting Irrigation	Irrigation	Sensors (Rain, Wind, etc.)	1. Mfg: Rainbird Model: Smart Controllers
32 8400	Planting Irrigation	Irrigation	Spray Heads (Rotor)	1. Mfg: Rainbird Model: Smart Controllers
32 8400	Planting Irrigation	Irrigation	Spray Heads (Fixed)	1. Mfg: Rainbird
32 8400	Planting Irrigation	Irrigation	Spray Heads (Stream Spray)	1. Mfg: Rainbird Model: 8', 10', 12', 15' Diameter Sprays
32 8400	Planting Irrigation	Irrigation	Bubblers	1. Mfg: Rainbird Model: Adjustable
32 9120	Mulches, Chemicals and Nutrients	Landscaping	Organic Mulch	1. Mfg: Aquinaga Model: Fir Bark Mulch particle range of 3/4" to 1-1/2" in diameter (Shredded bark is not acceptable)
32 9452	Root Barriers	Landscaping	Root Barriers	1. Mfg: Deep Root Corporation Model: Deep Root, High polypropylene root control planter

CSI SPEC SECTION	PARK GUIDELINE SECTION	PRODUCT	NORTH AGENCY PREFERRED MANUFACTURER
<u>DIVISION 33: UTILITIES</u>			
No Preference			

CSI SPEC SECTION	PARK GUIDELINE SECTION	PRODUCT	REGIONAL AGENCY PREFERRED MANUFACTURE
<u>DIVISION 4: MASONRY</u>			
04 2000 Unit Masonry	Restroom Bldg	CMU Block - Colored Split Face	1. Mfg: Orco Block Model: 8 x 8 x 16 Color: Grey Finish: Smooth
04 2000 Unit Masonry	Pool Building	CMU Block - Colored Split Face	N/A
04 2000 Unit Masonry	Parking Log Trash Enclosure	CMU Block - Colored Split Face	1. Mfg: Orco Block Model: 8 x 8 x 16 Color: Grey Finish: Smooth
04 2000 Unit Masonry	-Restroom Bldg -Pool Bldg	CMU Block -Burnished	No Preference
<u>DIVISION 5: METALS</u>			
05 7030 Skateboard Deterrents	Park Furnishing	Skateboard Guards	1. Mfg: Skate Stoppers Model: Varies
<u>DIVISION 6: WOOD, PLASTICS AND COMPOSITES</u>			
06 4020 Cabinet Hardware	Community Bldg	Cabinets and Hardware	1. Mfg: Executive Cabinetry, LLC Hardware: 1. Mfg: Blum 2. Mfg: Accuride
<u>DIVISION 8: OPENINGS</u>			

CSI SPEC SECTION	PARK GUIDELINE SECTION	PRODUCT	REGIONAL AGENCY PREFERRED MANUFACTURE
08 1000 Doors and Frames	Restroom Bldg	Doors and Hardware	1. Mfg: Yale Mortise Model: AUE 8800 FL Color: ZA Keyway Finish: 26D/626 2. Mfg: Yale Lever Model: AU 5400 LN Color: ZA Keyway Finish: 26D/626 3. Mfg: LCN Closer Model 4040 XP Color: Aluminum Finish: 4. Mfg: T.M. Cobb Model: Lumber Core Color: Natural Finish: Birch 5. Mfg: Stanley / Lawrence Model: Butt Hinges 4.5 x 4.5 Color: Stainless Finish: 26D
08 8300 Mirrors	Restroom Bldg	Mirrors	1. Mfg: Bradley Model: B-165 36"x48" Color: Chrome Finish: Stainless Steel
<u>DIVISION 9: FINISHES</u>			
09 6400 Flooring	Community Bldg	Staff Office - Flooring	1. Mfg: Armstrong Model: Safety Zone VCT Tile www.armstrong.com 2. Mfg: Burke Flooring Model: 4" Cove Base Color: Black Finish: www.burkeflooring.com
09 6500 Resilient Flooring	Community Bldg	Flooring	1. Mfg: Armstrong Model: Safety Zone VCT Tile www.armstrong.com 2. Mfg: Burke Flooring Model: 4" Cove Base Color: Black Finish: www.burkeflooring.com

CSI SPEC SECTION	PARK GUIDELINE SECTION	PRODUCT	REGIONAL AGENCY PREFERRED MANUFACTURE
<u>DIVISION 10: SPECIALTIES</u>			
10 1100 Visual Display Units	Community Bldg	Blackboard/Whiteboard	1. Mfg: American Office Products (Vendor)
10 1100 Visual Display Surfaces	Community Bldg	Bulletin Boards/Pin Boards	1. Mfg: American Office Products (Vendor)
10 1400 Signage	Pool Bldg	Signage	1. Mfg: In-house sign shop (DPR) 2. Mfg: Fossil Graphics 3. Mfg: Impact Signs 4. Mfg: ASI Signage Innovations Model: InTac Eco 5. Mfg: Coastal Enterprises Model: Precision Board PBLT Color: Standard Finish: 15lb. - 1.5" Board 6. Mfg: Seton Model: Eco-Friendly Safety Signs 7. Mfg: EcoSignage.com Model: Recycled Materials 8. Mfg: Fossil Industries Model: Fossil Greenguard Signs
10 1450 Exterior Signage	Group Picnic Area	Numbered Signs	1. Mfg: In-house sign shop (DPR) 2. Mfg: Fossil Graphics 3. Mfg: Impact Signs 4. Mfg: ASI Signage Innovations Model: InTac Eco 5. Mfg: Coastal Enterprises Model: Precision Board PBLT Color: Standard Finish: 15lb. - 1.5" Board 6. Mfg: Seton Model: Eco-Friendly Safety Signs 7. Mfg: EcoSignage.com Model: Recycled Materials 8. Mfg: Fossil Industries Model: Fossil Greenguard Signs

CSI SPEC SECTION	PARK GUIDELINE SECTION	PRODUCT	REGIONAL AGENCY PREFERRED MANUFACTURE
10 1450 Exterior Signage	Park Furnishing	Park Signage	1. Mfg: In-house sign shop (DPR) 2. Mfg: Fossil Graphics 3. Mfg: Impact Signs 4. Mfg: ASI Signage Innovations Model: InTac Eco 5. Mfg: Coastal Enterprises Model: Precision Board PBLT Color: Standard Finish: 15lb. - 1.5" Board 6. Mfg: Seton Model: Eco-Friendly Safety Signs 7. Mfg: EcoSignage.com Model: Recycled Materials 8. Mfg: Fossil Industries Model: Fossil Greenguard Signs
10 1450 Exterior Signage	Individual Picnic Areas	Park Signage	1. Mfg: In-house sign shop (DPR) 2. Mfg: Fossil Graphics 3. Mfg: Impact Signs 4. Mfg: ASI Signage Innovations Model: InTac Eco 5. Mfg: Coastal Enterprises Model: Precision Board PBLT Color: Standard Finish: 15lb. - 1.5" Board 6. Mfg: Seton Model: Eco-Friendly Safety Signs 7. Mfg: EcoSignage.com Model: Recycled Materials 8. Mfg: Fossil Industries Model: Fossil Greenguard Signs

CSI SPEC SECTION	PARK GUIDELINE SECTION	PRODUCT	REGIONAL AGENCY PREFERRED MANUFACTURE
10 1450 Exterior Signage	Individual Picnic Areas	Park Identification Signs	1. Mfg: In-house sign shop (DPR) 2. Mfg: Fossil Graphics 3. Mfg: Impact Signs 4. Mfg: ASI Signage Innovations Model: InTac Eco 5. Mfg: Coastal Enterprises Model: Precision Board PBLT Color: Standard Finish: 15lb. - 1.5" Board 6. Mfg: Seton Model: Eco-Friendly Safety Signs 7. Mfg: EcoSignage.com Model: Recycled Materials 8. Mfg: Fossil Industries Model: Fossil Greenguard Signs
10 1450 Exterior Signage	Individual Picnic Areas	Park Direction Signs	1. Mfg: In-house sign shop (DPR) 2. Mfg: Fossil Graphics 3. Mfg: Impact Signs 4. Mfg: ASI Signage Innovations Model: InTac Eco 5. Mfg: Coastal Enterprises Model: Precision Board PBLT Color: Standard Finish: 15lb. - 1.5" Board 6. Mfg: Seton Model: Eco-Friendly Safety Signs 7. Mfg: EcoSignage.com Model: Recycled Materials 8. Mfg: Fossil Industries Model: Fossil Greenguard Signs
10 1450 Exterior Signage	Swimming Pool	Regulatory Signage	1. Mfg: In-house sign shop (DPR) 2. Mfg: Fossil Graphics 3. Mfg: Impact Signs 4. Mfg: ASI Signage Innovations Model: InTac Eco 5. Mfg: Coastal Enterprises Model: Precision Board PBLT Color: Standard Finish: 15lb. - 1.5" Board 6. Mfg: Seton Model: Eco-Friendly Safety Signs 7. Mfg: EcoSignage.com Model: Recycled Materials 8. Mfg: Fossil Industries Model: Fossil Greenguard Signs

CSI SPEC SECTION		PARK GUIDELINE SECTION	PRODUCT	REGIONAL AGENCY PREFERRED MANUFACTURE
10 1450	Exterior Signage	Swimming Pool	Informational Signage	1. Mfg: In-house sign shop (DPR) 2. Mfg: Fossil Graphics 3. Mfg: Impact Signs 4. Mfg: ASI Signage Innovations Model: InTac Eco 5. Mfg: Coastal Enterprises Model: Precision Board PBLT Color: Standard Finish: 15lb. - 1.5" Board 6. Mfg: Seton Model: Eco-Friendly Safety Signs 7. Mfg: EcoSignage.com Model: Recycled Materials 8. Mfg: Fossil Industries Model: Fossil Greenguard Signs
10 1450	Exterior Signage	Swimming Pool	Directional Signage	1. Mfg: In-house sign shop (DPR) 2. Mfg: Fossil Graphics 3. Mfg: Impact Signs 4. Mfg: ASI Signage Innovations Model: InTac Eco 5. Mfg: Coastal Enterprises Model: Precision Board PBLT Color: Standard Finish: 15lb. - 1.5" Board 6. Mfg: Seton Model: Eco-Friendly Safety Signs 7. Mfg: EcoSignage.com Model: Recycled Materials 8. Mfg: Fossil Industries Model: Fossil Greenguard Signs
10 2270	Portable Partitions	Community Bldg	Room Partitions	1. Mfg: Staples (Vendor)
10 2800	Toilet, Bath and Laundry Specialties	Restroom Bldgs	Soap Dispenser	2. Mfg: GOJO Model: 5271-06 Finish: Chrome
10 2800	Toilet, Bath and Laundry Specialties	Restroom Bldg	Toilet Seat Cover Dispenser	1. Mfg Brand Name: TOUGH GUY Manufacturer Part No: 1ECK2
10 2800	Toilet, Bath and Laundry Specialties	Restroom Bldg	Toilet Paper Dispenser	1. Mfg Brand Name: GEORGIA-PACIFIC Manufacturer Part No: 57320
10 2800	Toilet, Bath and Laundry Specialties	Maintenance Bldg/Yard	Equipment and Fixtures	1. Mfg: Grainger (Vendor)

CSI SPEC SECTION		PARK GUIDELINE SECTION	PRODUCT	REGIONAL AGENCY PREFERRED MANUFACTURE
10 2800	Toilet, Bath and Laundry Specialties	Restroom Bldg	ADA Grab Bars	Str Grab Bar, Textured, 1-1/2 Dia. Mfg Brand Name: GRAINGER APPROVED
10 4100	Emergency Access and Information Cabinets	Security and Safety	Knox Box	1. Mfg: Grainger (Vendor)
10 5000	Storage Specialties	Community Bldg	Janitor Room Shelving	1. Mfg: Grainger (Vendor)
10 7300	Protective Covers	Ball Field	Shade Covers for Dugouts	1. Mfg: USA Shade (Vendor)
10 7300	Protective Covers	Ball Field	Shade Covers for Bleachers	1. Mfg: USA Shade (Vendor)
10 7340	Fabric Shade Canopies	Childrens Play Area	Shade Sails	1. Mfg: ShadeSails.com 2. Mfg: SoCal Shade Sails 3. Mfg: USA SHADE
10 7340	Fabric Shade Canopies	Splash Pads	Shade Sails	1. Mfg: USA Shade
10 7360	Site and Street Shelters	Group Picnic Area	Shade Shelter	1. Mfg: Poligon
10 7360	Site and Street Shelters	Individual Picnic Areas	Shade Shelter	1. Mfg: Poligon
<u>DIVISION 11: EQUIPMENT</u>				
11 4000	Foodservice Equipment	Community Bldg	Kitchen Appliances	1. Mfg: Arrow Restaurant Equipment 2. Mfg: KaTom Restaurant Supply 3. Mfg: Central Restaurant (Vendor)
11 4000	Foodservice Equipment	Sports Field Concession Stand	Kitchen Appliances	1. Mfg: Arrow Restaurant Equipment (Vendor) 2. Mfg: KaTom Restaurant Supply (Vendor) 3. Mfg: Central Restaurant (Vendor)

CSI SPEC SECTION		PARK GUIDELINE SECTION	PRODUCT	REGIONAL AGENCY PREFERRED MANUFACTURE
11 5200	Audio-Visual Equipment	Community Bldg	Audio Visual Equipment - Screens	1. Mfg: Samsung Model: LN55C630-55" LCD HDTV 2. Mfg: Tomark 3. Mfg: Best Buy (Vendor) 4. Mfg: Draper Audio Visual Products Model: Ecomatt www.draperinc.com 5. Mfg: Da-Lite www.da-lite.com
11 5200	Audio-Visual Equipment	Community Bldg	AudioVisual Equipment - Electronic Equipment	1. Mfg: Samsung Model: LN55C630-55" LCD HDTV 2. Mfg: Tomark 3. Mfg: Best Buy (Vendor) 4. Mfg: Draper Audio Visual Products Model: Ecomatt www.draperinc.com 5. Mfg: Da-Lite www.da-lite.com
11 5270	TV Mounts and Lift Systems	Community Bldg	TV Wall Mount	1. Mfg: STC Mount Model: 30504, 32" to 55", Mount 4-way
11 6100	Theater and Stage Equipment	Gym Bldg	Stage Lift	1. Mfg: Southern Aluminum Model: Portable Stages 2. Mfg: School Outfitters Model: Portable Stages
11 6100	Theater and Stage Equipment	Gym Bldg	Stage Curtain	1. Mfg: iWeiss Theatrical Solutions Model: Varies
11 6500	Athletic and Recreational Equipment	Tennis Court	Fence Screen	1. Mfg: Model: Tennis Court Fencing, 12' ht., 1-3/4" Mesh, 9 GA Chain Link Fence

CSI SPEC SECTION	PARK GUIDELINE SECTION	PRODUCT	REGIONAL AGENCY PREFERRED MANUFACTURE
11 6600 Athletic and Recreational Equipment	Ball Field	Bat Racks	1. Mfg: LA Steelcraft Model: BR-15 Color: Galvanized Steel 2. Mfg: BSN Sports Model: BS-1159622; Steel Fence Bat Rack - 30" long 4. Mfg: Tomark Sports Model: K10997 In-ground 5. Mfg: Tomark Sports Model: K10998 Surface-mount
11 6600 Athletic and Recreational Equipment	Ball Field	Batting Cages	1. Mfg: Tomark Sports Model: K10996
11 6600 Athletic and Recreational Equipment	Ball Field	Bases	Mfg: BSN Sports Model: BS-BBBASEPR w/ Anchors & Plugs Color: White Bases 2. Mfg: BSN Sports Model: BS-BBHPHWODBM Color: Home Plate 3. Mfg: Tomark Sports Model: K10244
11 6600 Athletic and Recreational Equipment	Ball Field	Foul Ball Poles	1. Mfg: BSN Sports Model: BS-BS Foul, 20'/12" Wing; 3-1/2" Outside Diameter Pole 2. Mfg: Tomark Sports Model: PRO30-13
11 6600 Athletic and Recreational Equipment	Ball Field	Outfield Fencing with Cap Padding	1. Mfg: BSN Sports Model: SAF-TOP BS-1234893 2. Mfg: BSN Sports Model: SBS314GP Color: 200FD Homerun Fence w/ Yellow Top Tape 3. Mfg: Tomark Sports Model: K14065 Color: TBD
11 6600 Athletic and Recreational Equipment	Ball Field	Pole Padding	1. Mfg: Tomark Sports Model: K14065 2. Mfg: Becon Athletics
11 6600 Athletic and Recreational Equipment	Ball Field	Softball/Baseball Backstop	1. Mfg: In House - Carpenter Shop

CSI SPEC SECTION		PARK GUIDELINE SECTION	PRODUCT	REGIONAL AGENCY PREFERRED MANUFACTURE
11 6600	Athletic and Recreational Equipment	Soccer/Multi-Use Court	Field Lighting Pole Padding	1. Mfg: Beacon Athletics
11 6600	Athletic and Recreational Equipment	Basketball Court	Pole and Backboard	1. Mfg: Porter Athletic Co. Model: 90950-000 w/ annual height adjuster
11 6600	Athletic and Recreational Equipment	Tennis Court	Poles and Net	1. Mfg: Tomark Sports Model: K42493
11 6600	Athletic and Recreational Equipment	Volleyball Court	Steel Poles	1. Mfg: Tomark Sports Model: K72355
11 6600	Athletic and Recreational Equipment	Volleyball Court	Net	1. Mfg: Tomark Model: SENOH HM-50 net system
11 6600	Athletic and Recreational Equipment	Volleyball Court	Court Rope Lines	1. Mfg: Volleyball USA Model: 2" Pro Adjustable Lines Color: TBD
11 6600	Athletic and Recreational Equipment	Park Furnishing	Dog Park Waste Bag Station	N/A
11 6600	Athletic and Recreational Equipment	Gym Bldg	Basketball Standards	1. Mfg: Performance Sports Systems (PSS) Model: 3207-25RA, 3107-25RA, LXP4200 & 2500, PMCE, 1194, 1100, and 1131 2. Mfg: Tomark Model: Varies
11 6600	Athletic and Recreational Equipment	Gym Bldg	Wall Padding	1. Mfg: Wainscoting Padding Model: Varies 2. Mfg: Kwik-Stik 3. Mfg: AK Athletic Equipment Model: Varies 4. Mfg: Tomark Sports Model: TM-K35050 5. Mfg: Promats Athletics Model: 4110-STD & 4196-23-00
11 6600	Athletic and Recreational Equipment	Gym Bldg	Exercise Room Equipment	1. Mfg: Specialty Fitness (Vendor) 2. Mfg: Sears (vendor) 3. Mfg: Sports Authority (Vendor)

CSI SPEC SECTION	PARK GUIDELINE SECTION	PRODUCT	REGIONAL AGENCY PREFERRED MANUFACTURE
11 6640 Scoreboards	Gym Bldg	Scoreboard	1. Mfg: All American Model: 8212 EMC LED w/ Electrical Message Center www.allamericanscoreboards.com 2. Mfg: Daktronics Scoreboards Model: Varies 3. Mfg: All American Scoreboards Model: Varies 4. Mfg: Macgregor Scoreboards Model: Varies 5. Mfg: Tomark Sports Model: Danaview 6. Mfg: Fair-Play by Trans Model: MP-70/50
11 6640 Scoreboards	Ball Field	Scoreboards	1. Mfg: MacGregor Model: BS-MSBBSI 16'x5' Outdoor Scoreboard w/ wireless remote 2. Mfg: Daktronics Model: BA-2029
11 6640 Scoreboards	Soccer/Multi-Use Court	Scoreboards	1. Mfg: Daktronics Model: SO-2008-R/A w/LED
11 6640 Scoreboards	Basketball Court	Indoor Basketball Scoreboards	1. Mfg: Daktronics Model: BB-2101-13 2. Mfg: Daktronics Model: BB-2114-13 Shot Clock
11 6710 Outdoor Fitness Trails and Stations	Fitness Zone	Exercise Equipment	1. Mfg: SportsArt Fitness Equipment
11 6860 Skateboard Facilities	Skate Park	On-Grade Skate Elements	1. Mfg: Spohn Ranch 2. Mfg: American Ramp Company
11 8600 Play Structures	Children's Play Area	Play Equipment Componets	1. Mfg: Detailed Play Systems Model: Various Playground Equipment Components 2. Mfg: Landscape Structures Model: Varies 3. Mfg: Kompan Model: Varies 4. Mfg: Miracle Recreation Equipment Co. Model: Varies

CSI SPEC SECTION	PARK GUIDELINE SECTION	PRODUCT	REGIONAL AGENCY PREFERRED MANUFACTURE
11 6800 Play Structures	Children's Play Area	Climbing Boulders or Animal Sculptures	<p>1. Miracle Recreation Equipment Co. Model: Various Climbing Walls</p> <p>2. Mfg: Kompan Model: Climbing Equipment and Spacenets</p> <p>3. Mfg: Landscape Structures Inc. Model: Rock Climbers Color: Brown</p> <p>4. Mfg: Landscape Structures Inc. Model: Lunar Blast Net Climber</p> <p>5. Miracle Recreation Equipment Co. Model: Various Climbing Walls</p> <p>6. Mfg: Kompan Model: Climbing Equipment and Spacenets</p>
11 6840 Spray Parks	Splash Pad	Spray Elements	<p>1. Mfg: Vortex Aquatic Structures International Inc. Model: Spraypoint Smartflow</p> <p>2. Mfg: Water Play Solutions</p>
<u>DIVISION 12: FURNISHINGS</u>			
12 3600 Countertops	Community Bldg	Counters	<p>1. Mfg: Duray/J F Duncan Model: Stainless Steel</p> <p>2. Mfg: Formica Model: Plastic Laminate</p> <p>3. Samsung Model: Staron Solid Surface (acrylic)</p> <p>4. Mfg: EnviroGLAS Model: EnviroGLAS Terrazzo</p> <p>5. Mfg: Paperstone Model: Certified</p> <p>6. Mfg: Renewed Materials, LLC. Model: Alkemi</p> <p>7. Mfg: Ecoverings Model: Bio-Glass</p> <p>8. Mfg: IceStone Model: Recycled Glass Surfaces</p>

CSI SPEC SECTION	PARK GUIDELINE SECTION	PRODUCT	REGIONAL AGENCY PREFERRED MANUFACTURE
12 3600 Countertops	Sports Field Concession Stand	Counters	1. Mfg: Duray/J F Duncan Model: Stainless Steel 2. Mfg: Formica Model: Plastic Laminate 3. Samsung Model: Staron Solid Surface (acrylic) 4. Mfg: EnviroGLAS Model: EnviroGLAS Terrazzo 5. Mfg: Paperstone Model: Certified 6. Mfg: Renewed Materials, LLC. Model: Alkemi 7. Mfg: Ecoverings Model: Bio-Glass 8. Mfg: IceStone Model: Recycled Glass Surfaces
12 5000 Furniture	Community Bldg	Staff Offices - Cabinets	1. Mfg: Duray/J F Duncan Model: Stainless Steel 2. Mfg: Formica Model: Plastic Laminate 3. Samsung Model: Staron Solid Surface (acrylic) 4. Mfg: EnviroGLAS Model: EnviroGLAS Terrazzo 5. Mfg: Paperstone Model: Certified 6. Mfg: Renewed Materials, LLC. Model: Alkemi 7. Mfg: Ecoverings Model: Bio-Glass 8. Mfg: IceStone Model: Recycled Glass Surfaces

CSI SPEC SECTION	PARK GUIDELINE SECTION	PRODUCT	REGIONAL AGENCY PREFERRED MANUFACTURE
12 5000 Furniture	Community Bldg	Staff Offices - Storage	<p>1. Mfg: HON Model: 4-Drawer Lateral File Color: Light Gray</p> <p>2. Mfg: Granger Model: Storage Cabinet, 36" x 24" x 72", 4W537 Color: Black Finish: www.granger.com</p> <p>3. Mfg: Granger Model: 2-Shelf Steel Bookcase, 72"x40" width Color: Black Finish: www.granger.com</p> <p>4. Mfg: Salsbury Ind. Model: Steel Storage Cabinet, 9074 BLK-A Color: Black</p> <p>5. Mfg: National Business Furniture (Vendor)</p> <p>6. Mfg: Sanduskey Lee Corp Model: Greenguard Certified</p> <p>7. Mfg: Steel Solutions USA Model: Greenguard Certified</p>
12 5000 Furniture	Community Bldg	Reception Chairs	<p>1. Mfg: Virco Manufacturing Corp. Model: N9 Task Chair – Metaphor Task Color: Black www.virco.com</p> <p>2. Mfg: HON Company Model: HIWM3 Mid-Back Color: Black, Mesh Back/III Upholstery</p> <p>3. Mfg: Staples (Vendor)</p> <p>4. Mfg: National Business Furniture (vendor)</p> <p>5. Mfg: Herman Miller Model: Various</p> <p>6. Mfg: Chromcraft, Inc. Model: Greenguard certified</p>

CSI SPEC SECTION	PARK GUIDELINE SECTION	PRODUCT	REGIONAL AGENCY PREFERRED MANUFACTURE
12 5120 Metal Office Furniture	Gym Bldg	Office Furniture	1. Mfg: Classroom Direct Model: Varies 2. Mfg: School Outfitters Model: Varies 3. Mfg: Discount School Supply
12 5140 Wood and Plastic-Laminate Office Furniture	Community Bldg	Staff Offices - Desks	1. Mfg: Maverick Model: Double Ped 30" x 60" Desk, MMD3060 Color: Medium Oak or Seattle Cherry 2. Mfg: Maverick Model: Hutch 60" x 36", MMH60-WD Color: Medium Oak or Seattle Cherry 3. Mfg: Maverick Model: 4-Drawer Lateral File, MMLF204 Color: Medium Oak or Seattle Cherry, Black Handles (H3B) 4. Mfg: Virco Manufacturing Corp. Model: Desk, Pedestal Double Desk w/ no Center Drawer, 533060 Color: www.virco.com 5. Mfg: HON Model: Workstation Color: Tabletop-Bourbon Cherry, Paint-Light Gray Finish: 6. Mfg: Stables (Vendor) 7. Mfg: School Outfitters (Vendor) 8. Mfg: Formaldehyde-free units made of solid wood responsibly harvested from managed forests
12 6720 Benches	Gym Bldg	Dressing Room Bench/Seating	1. Mfg: Classroom Direct 2. Mfg: School Outfitters

CSI SPEC SECTION	PARK GUIDELINE SECTION	PRODUCT	REGIONAL AGENCY PREFERRED MANUFACTURE
12 9300 Site Furnishings	Park Furnishing	Barbeque Grills	1. Mfg: Universal Precast Color: Tan Finish: Concrete 2. Mfg: Jamestown Advanced Model: Various Color: Black
12 9319 Bicycle Racks	Park Furnishing	Bicycle Racks	1. Mfg: Recycled Plactic Factory Model: 4', 8', 10' Bicycle Racks 2. Mfg: Reliance Foundry Company Ltd. Model: Various Models
12 9320 Trash and Litter Receptors	Park Furnishing	Trash and Litter Receptors	1. Mfg: Max-R Sustainable Outdoor Furnishings
12 9320 Trash and Litter Receptors	Park Furnishing	Hot Coal Receptacles	1. Mfg: Universal Precast Model: Various Color: Tan
12 9340 Site Seating, Benches and Tables	Basketball Court -Skate Park	Benches	1. Mfg: National Recreation Systems Model: DGS
12 9340 Site Seating, Benches and Tables	Basketball Court	Player Benches	1. Mfg: National Recreation Systems
12 9340 Site Seating, Benches and Tables	Sports Field	Player Benches	1. Mfg: Tomark 2. Mfg: Herks 3. Mfg: National Recreation Systems
12 9340 Site Seating, Benches and Tables	Ball Field	Player Benches	1. Mfg: BSN Sports Model: BS-BEPH15 2. Mfg: BSN Sports Model: BS-BEPE51 3. Mfg: LA Steelcraft Model: LBA-15P 4. Mfg: National Recreation Systems Model: PB

CSI SPEC SECTION	PARK GUIDELINE SECTION	PRODUCT	REGIONAL AGENCY PREFERRED MANUFACTURE
12 9340	Site Seating, Benches and Tables	Park Furnishing	Benches
			1. Mfg: Eco Green Site Solutions Model: Recycled Steel Bench 2. Mfg: Eco Green Site Solutions Model: Recycled Plastic Park Bench 3. Mfg: Recycled Plastic Factory Model: Recycled Plastic and Aluminum Bench
12 9340	Site Seating, Benches and Tables	Park Furnishing	Picnic Tables
			1. Mfg: BuyRecycledProducts.com Model: 2. Mfg: Recycled Plastic Factory Model: A-Frame Picnic Table 3. Mfg: Max-R.net Model: Various 4. Mfg: GreenPark Store Model: FSC Certified Wood
<u>DIVISION 13: SPECIAL CONSTRUCTION</u>			
13 1100	Swimming Pools and Equipment	Swimming Pool	Pool Ladders
			1. Mfg: AmeriMerc Model: Inground Swimming Pool Ladder 2. Mfg: S.R. Smith Model: Commercial Ladder
13 1100	Swimming Pools and Equipment	Swimming Pool	Pool Handrails
			1. Mfg: AmeriMerc Model: Ring Handrails/ Ladder Rails 2. Mfg: S.R. Smith Model: Various
13 1100	Swimming Pools and Equipment	Swimming Pool	Diving Boards
			1. Mfg: AmeriMerc Model: S.R. Smith Commercial Diving Boards 16' 2. Mfg: S.R. Smith Model: Various 16'
13 1100	Swimming Pools and Equipment	Swimming Pool	Emergency Trauma Kits
			1. Mfg: Seton Model: Emergency Trauma Kit Bag 2. Mfg: MacGill Model: Large Trauma Kit, Complete

CSI SPEC SECTION		PARK GUIDELINE SECTION	PRODUCT	REGIONAL AGENCY PREFERRED MANUFACTURE
13 1100	Swimming Pools and Equipment	Swimming Pool	Swim Lane Cords	1. Mfg: Recreonics Model: Anti-Wave Racing Lanes 2. Mfg: Competitor Model: Gold Medal Racing Lanes
13 1100	Swimming Pools and Equipment	Swimming Pool	Chemical Controllers	1. Mfg: Becks
13 1100	Swimming Pools and Equipment	Swimming Pool	Pool Markers	1. Mfg: Flaghouse Sports Model: Various 2. Mfg: Poolweb.com Model: Competitor; AntiWave
13 1100	Swimming Pools and Equipment	Swimming Pool	Buoys	1. Mfg: Recreonics Model: Various Ring Buoys Color: PFD Type IV
13 1100	Swimming Pools and Equipment	Swimming Pool	Pool Cover	1. Mfg: Recreonics Model: Various 2. Mfg: Cover-Pools Model: Automatic Cover; Manual
13 3425	Mini-Storage Buildings	Park Furnishing	Bicycle Storage	1. Mfg: Innovative Playgrounds 2. Mfg: L.A. Steel 3. Mfg: Burke 4. Mfg: Miracle Playgrounds
13 3425	Mini-Storage Buildings	Park Furnishing	Ball Field Maintenance Equipment Storage	1. Mfg: Aztec Containers Model: Varies
13 3425	Mini-Storage Buildings	Park Furnishing	Ball Field Equipment Storage Containers	1. Mfg: Aztec Containers Model: Varies

CSI SPEC SECTION	PARK GUIDELINE SECTION	PRODUCT	REGIONAL AGENCY PREFERRED MANUFACTURE
13 3430	Grandstands and Bleachers	Gym Bldg	<p>Bleachers (Temporary and Retractable)</p> <p>TEMPORARY BLEACHERS</p> <p>1. Mfg: Highland Products Model: Tim-N-Roll Color: Varies</p> <p>2. Mfg: Maxam Model: Varies</p> <p>3. Mfg: Tomark Sports Model: TM-K14078 Color: Gray Finish: Aluminum</p> <p>RETRACTABLE BLEACHERS</p> <p>1. Mfg: Maxam Bleachers Model: Varies</p> <p>2. Mfg: Tomark Model: Varies</p> <p>3. Mfg: Herk Edwards Inc. Model: #2600</p>
13 3430	Grandstands and Bleachers	Ball Field	<p>Bleachers (Aluminum or Wood)</p> <p>1. Mfg: Kay Park Model: BLA10A21V4F4 (21') & 62SG-VP(6') Model: BLA4A15V4F4, Seats 40</p> <p>2. Mfg: LA Steelcraft Model: BLO415SA, Seats 40</p> <p>3. Mfg: Tomark</p> <p>4. Mfg: Herks</p> <p>5. Mfg: National Recreation Systems</p>
13 3430	Grandstands and Bleachers	-Soccer Field -Volleyball Court	<p>Bleachers (Aluminum or Wood)</p> <p>1. Mfg: Kay Park Model: BLA10A21V4F4 (21') & 62SG-VP(6') Model: BLA4A15V4F4, Seats 40</p> <p>2. Mfg: LA Steelcraft Model: BLO415SA, Seats 40</p> <p>3. Mfg: Tomark</p> <p>4. Mfg: Herks</p> <p>5. Mfg: National Recreation Systems</p>

CSI SPEC SECTION		PARK GUIDELINE SECTION	PRODUCT	REGIONAL AGENCY PREFERRED MANUFACTURE
13 3430	Grandstands and Bleachers	-Multi-Use Court -Skate Park	Bleachers	1. Mfg: Kay Park Model: BLA10A21V4F4 (21') & 62SG-VP(6') Model: BLA4A15V4F4, Seats 40 2. Mfg: LA Steelcraft Model: BLO415SA, Seats 40 3. Mfg: Tomark 4. Mfg: Herks 5. Mfg: National Recreation Systems
13 3430	Grandstands and Bleachers	Volleyball Court	Spectator Benches	1. Mfg: Kay Park Model: BLA10A21V4F4 (21') & 62SG-VP(6') Model: BLA4A15V4F4, Seats 40 2. Mfg: LA Steelcraft Model: BLO415SA, Seats 40 3. Mfg: Tomark 4. Mfg: Herks 5. Mfg: National Recreation Systems
<u>DIVISION 14: CONVEYING EQUIPMENT</u>				
14 4000	Lifts	Swimming Pools	ADA Chair Lifts	1. Mfg: S.R. Smith Model: PAL Lift (Portable Aquatic Lift) 2. Mfg: S.R. Smith Model: Splish! Lift
<u>DIVISION 21: FIRE SUPPRESSION</u>				
21 1300	Fire-Suppression Sprinkler Systems	Community Bldg	Fire Sprinklers	1. Mfg: NFPA 750 Water-Mist System 2. Mfg: NFPA 2110 Clean-Agency Systems 3. Mfg: NFPA 72 Fire Detection and Alarm Systems 4. Mfg: Western States Fire Protection Co. Model: LEED Certified

CSI SPEC SECTION	PARK GUIDELINE SECTION	PRODUCT	REGIONAL AGENCY PREFERRED MANUFACTURE
21 1300 Fire-Suppression Sprinkler Systems	Gym Bldg	Fire Sprinklers	1. Mfg: NFPA 750 Water-Mist System 2. Mfg: NFPA 2110 Clean-Agency Systems 3. Mfg: NFPA 72 Fire Detection and Alarm Systems 4. Mfg: Western States Fire Protection Co. Model: LEED Certified
DIVISION 22: PLUMBING			
22 0000 Plumbing	Restroom Bldg	Toilets	1. Mfg: Acorn Engineering Co. Model: Dura-Ware 2105-T-1-CN-FG Model: Dura-Ware 2105-ADA-T-1-CNFG 3. Mfg: American Standard Model: AFWall Elongated Flush Valve Toilet – 2257-103; #95 Open Seatless Cover by Olsonite 4. Mfg: Sloan Valve Co. Model: Flush Valve, Royal Flushometer #111 5. Mfg: Kohler Model: 4330 Color: White
22 1319 Sanitary Waste Piping Specialties	Restroom Bldg	Floor Drain	1. Mfg: American Standard Model: 908-2 Color: White Finish: Enamel Over Cast Iron
22 3300 Domestic Water Heaters	Pool Bldg	Water Heaters	1. Mfg: American Model: Varies 2. Mfg: A/O Smith Model: Varies 3. Mfg: Rheem Model: Varies

CSI SPEC SECTION	PARK GUIDELINE SECTION	PRODUCT	REGIONAL AGENCY PREFERRED MANUFACTURE
22 4210 Plumbing Fixtures	Restroom Bldg	Sinks	<p>1. Mfg: Acorn Engineering Co. Model: 19 51-1-9-GT-TT-TE-FG, Model: 1952-1-CSG-9-GT-TT Color: Satin Finish: S.S. Model: 1950-1-CSG-9-GT-TT Color: Satin Model: 1953-ADA-1-9-GT-TT-TE-FG, Color: Stainless Steel</p> <p>2. Mfg: American Standard (Wall Hung) Model: 0355-012, Color: White w/ Plumbing Trap</p> <p>3. Mfg: Chicago Faucet (Use w/stainless steel tank) Model:333-669 w/E12 VP Aerator, Locking Hole Plug & Stainless Steel Flexible Supply</p> <p>4. Mfg: Chicago Faucet (Use w/china sink) Model:1802A w/E12 VP Aerator</p>
22 4210 Plumbing Fixtures	Community Bldg	Janitor Mop Sink	<p>1. Mfg: American Standard Model: 7692.d49 Color: White Finish: Enamel</p> <p>2. Mfg: Turbo Air Model: High Quality 304 Stainless Steel TSA-1-N Color: Stainless</p>
22 4210 Plumbing Fixtures	Community Bldg	Sinks	<p>1. Mfg: Eleek Model: Recycled Materials</p> <p>2. Mfg: Model: Recycled Aluminum</p> <p>3. Mfg: Model: Stainless Steel</p>

CSI SPEC SECTION	PARK GUIDELINE SECTION	PRODUCT	REGIONAL AGENCY PREFERRED MANUFACTURE
22 4210 Plumbing Fixtures	Sports Field Concession Stand	Sinks	1. Mfg: ACORN Model: 1952-I-CSG-9-GT-TT Color: Satin Finish: Stainless Steel 2. Mfg: American Standard Model: 035G 041 Color: White Finish: Vitreous China
22 4217 Waterless Urinals	Restroom Bldg	Standard and Waterless Urinals	1. Mfg: Acorn Model: 2167-T-I-FV Color: Satin Finish: Stainless Steel 2. Mfg: American Standard Model: 6590-001 Color: White Finish: White/Stainless Steel 3. Mfg: American Standard Model: 6541-132 Color: White Finish: White/Stainless Steel 4. Mfg: Kohler Model: K-5016-ET-0 Color: White Finish: White/Stainless Steel
22 4700 Drinking Fountains - Interior & Exterior	-Ball Fields -Soccer Fields -Multi-Use Fields	Drinking Fountains	1. Mfg: Oasis
22 4700 Drinking Fountains - Interior & Exterior	Park Furnishing	Drinking Fountains	1. Mfg: Hawes Corporation
22 4713 Drinking Fountains	Restroom Bldg	Drinking Fountains (Wall Mounted)	1. Mfg: Haws Corporation Model: 1118 BP Color: Satin Finish: Stainless Steel 1. Mfg: Haws Corporation Model: 1025 Color: Dark Green

CSI SPEC SECTION	PARK GUIDELINE SECTION	PRODUCT	REGIONAL AGENCY PREFERRED MANUFACTURE
22 4713 Drinking Fountains	Gym Bldg	Drinking Fountains (Wall Mounted)	1. Mfg: Haws Model: 2400 Recessed Color: Natural Finish: Gloss 2. Mfg: Haws - Cooler Model: 2106 Color: Satin Finish: Stainless Steel 3. Mfg: Haws Model: 118 BP Color: Stainless Steel Finish: Satin
<u>DIVISION 23: HEATING, VENTILATING AND AIR-CONDITIONING (HVAC)</u>			
23 7000 Central HVAC Equipment	Gym Bldg	HVAC System	1. Mfg: Carrier (In Gym) Model: 48 TC "WeatherMaker" Color: Grey Finish: Package Unit (Roof Top) 2. Mfg: York (In Main Office) Model: H2RD Series Color: Brown Finish: Split System 3. Mfg: Friedrich Model: SS 12M10 Color: Grey/Black Finish: Window Mounting 4. Mfg: York (Heat pump) Model: XP120 Series Color: Brown Finish: Package Unit (Roof Top) 5. Mfg: Carrier Model: 38HDR060-321 Color: Grey Finish: Split Mounted (Vertical) Split System

CSI SPEC SECTION	PARK GUIDELINE SECTION	PRODUCT	REGIONAL AGENCY PREFERRED MANUFACTURE
23 7000 Central HVAC Equipment	Community Bldg	HVAC System	1. Mfg: Comfort-Aire Model: REG-81H (Heat/Cool) Color: White www.comfort-aire.com 2. Mfg: Norton Electric/Dynamic Model: 353511 A/T Multi-Zone A/H with Service Disconnect and Duct Transition: 3. Mfg: ASHRAE Manual J and D 4. Mfg: Energy Star Model: SEER 14 or higher 5. Mfg: Trane Model: EarthWise systems
<u>DIVISION 26: ELECTRICAL</u>			
26 5000 Swimming Pools and Equipment	Swimming Pool	Pool Lighting	1. Mfg: Recreonics Model: Hayward Underwater Lights w/ PureWhite LED Color: #65-135 Finish: 2. Mfg: Hayward Model: Universal CrystaLogic LED Color: Finish:
26 5000 Swimming Pools and Equipment	Swimming Pool	Pool Deck Lighting	1. Mfg: Dekor Model: Millennium Outdoor Color: Finish: 2. Mfg: Aibaba Model: LED Swimming Pool Deck Light Color: Finish:

CSI SPEC SECTION	PARK GUIDELINE SECTION	PRODUCT	REGIONAL AGENCY PREFERRED MANUFACTURE
26 5100 Interior Lighting	Gym Bldg	Interior Lighting	<p>1. Mfg: Varies Model: 4' T-8 Fluorescent Color: White Finish: Surface Mount</p> <p>2. Mfg: Varies Model: 100W Mh Recessed Can Color: White Trim Finish: Recessed</p> <p>3. Mfg: CF1800 / 841 18 Watt Model: CFL18W Fluorescent Color: White Finish Finish: Recessed Light Can</p> <p>4. Mfg: CF 1300 / 827 13 Watt Model: 13W 2-Pin Fluorescent Color: White Trim Finish: Recessed Light Can</p>
26 5560 Theatrical Lighting and Controls	Gym Bldg	Stage Lighting	<p>1. Mfg: Varies Model: Induction Lights 250 Watt Color: White Finish: Hanging Type</p> <p>2. Mfg: Varies Model: LED Lights 250 Watt Color: White Finish: Hanging Type</p>

CSI SPEC SECTION	PARK GUIDELINE SECTION	PRODUCT	REGIONAL AGENCY PREFERRED MANUFACTURE
26 5600 Exterior Lighting	Restroom Bldg	Exterior Lighting	<p>1. Mfg: Trace Lite Model: TL116-IND-40M Color: Bronze Finish: 40W Induction Lamp</p> <p>2. Mfg: Golden State Ltg. Sales Model: T260-Size 20/86 Lumens (80W/7360), Pole Color: DB/Dark Bronze, Powder Coated Finish: Color Temperature 50-5000K</p> <p>3. Mfg: RAB Model: WPIG 100 Watt Halide Color: Brown Finish: Surface Mounted</p> <p>4. Mfg: Kenall Herculux Model: H69D (5000) Wall Mount</p> <p>5. Mfg: Kenall Herculux Model: H99D (5300) Ceiling Mount</p> <p>6. Mfg: Appalachian Lighting System Model: WP1 Wall Mount</p> <p>7. Mfg: Appalachian Lighting System Model: CL Canopy Mount</p>
26 5610 Exterior Lighting (General)	Security Lighting	Walkway Lights	<p>1. Mfg: SEPCO Model: Various Color: Finish: www.sepco-solarlighting.com</p> <p>2. Mfg: Reliance Foundary Model: Solar Bollard Lamp Color: Finish: www.reliance-foundary.com</p>

CSI SPEC SECTION	PARK GUIDELINE SECTION	PRODUCT	REGIONAL AGENCY PREFERRED MANUFACTURE
26 5620 Lighting Poles, Standards and Bases	Security Lighting	Parking Lot Standards	1. Mfg: BetaLED Model: The Edge LED Parking Lights www.betaled.com 2. Mfg: SEPSCO Model: Various www.sepco-solarlighting.com 3. Mfg: Precision-Paragon Model: ESTE Hi-Lo Controls Area Lighting www.p-2.com 4. Mfg: Precision-Paragon Model: IST Induction Area Lighter www.p-2.com
26 5620 Lighting Poles, Standards and Bases	Park Furnishings	Security Lighting	1. Mfg: MaxLite Model: maxLED Fixtures 2. Mfg: Lithonia Lighting Model: Multiple Models 3. Mfg: Eco Lumens Model: Varies
26 5660 Exterior Athletic Lighting	-Soccer Field -Multi-Use Court -Ballfields	Court Lighting	1. Mfg: Musco Model: Light-Structure Green www.musco.com 2. Mfg: Qualite Sports Lighting Model: Greenstar, Pro www.qualite.com 3. Mfg: Lithonia Model: Sport Field Lighting www.lithonia.com

CSI SPEC SECTION	PARK GUIDELINE SECTION	PRODUCT	REGIONAL AGENCY PREFERRED MANUFACTURE
26 5660 Exterior Athletic Lighting	Tennis Court	Court Lighting	<p>1. Mfg: Musco Lighting Model: Light Structure Color: Green</p> <p>2. Mfg: Musco Lighting Model: Sports Cluster Color: Green</p> <p>3. Mfg: Visionire Lighting Model: 750 Watt H2D Pulse-Start Color: LED Lighting Finish: Varies</p> <p>4. Mfg: Musco</p> <p>5. Pacific Manufacturing Model: Utopia #MFL-2L-200ID/50-UNIV-Induction Color: BRNZ/Slip Fit</p> <p>6. Square D Elec Model: Panel and Brackets</p> <p>7. Mfg: Graybar</p> <p>8. Mfg: Monterey Lighting Model: LED</p> <p>9. Mfg: Musco Lighting</p> <p>10. Mfg: Varies Model: Metal Halide Color: Pulse-Start</p> <p>11. Mfg: LED Lighting Model: Varies</p>

CSI SPEC SECTION	PARK GUIDELINE SECTION	PRODUCT	REGIONAL AGENCY PREFERRED MANUFACTURE
26 5660 Exterior Athletic Lighting	Basketball Court	Court Lighting	1. Mfg: Musco Lighting Model: Light Structure Color: Green 2. Mfg: Musco Lighting Model: Sports Cluster Color: Green 3. Mfg: Visionire Lighting Model: 750 Watt H2D Pulse-Start Color: LED Lighting Finish: Varies 4. Mfg: Musco 5. Pacific Manufacturing Model: Utopia #MFL-2L-200ID/50-UNIV-Induction Color: BRNZ/Slip Fit 6. Square D Elec Model: Panel and Brackets 7. Mfg: Graybar 8. Mfg: Monterey Lighting Model: LED 9. Mfg: Musco Lighting 10. Mfg: Varies Model: Metal Halide Color: Pulse-Start 11. Mfg: LED Lighting Model: Varies

CSI SPEC SECTION	PARK GUIDELINE SECTION	PRODUCT	REGIONAL AGENCY PREFERRED MANUFACTURE
26 5660	Exterior Athletic Lighting	Volleyball Court	Court Lighting
			<p>1. Mfg: Musco Lighting Model: Light Structure Color: Green</p> <p>2. Mfg: Musco Lighting Model: Sports Cluster Color: Green</p> <p>3. Mfg: Visionire Lighting Model: 750 Watt H2D Pulse-Start Color: LED Lighting Finish: Varies</p> <p>4. Mfg: Musco</p> <p>5. Pacific Manufacturing Model: Utopia #MFL-2L-200ID/50-UNIV-Induction Color: BRNZ/Slip Fit</p> <p>6. Square D Elec Model: Panel and Brackets</p> <p>7. Mfg: Graybar</p> <p>8. Mfg: Monterey Lighting Model: LED</p> <p>9. Mfg: Musco Lighting</p> <p>10. Mfg: Varies Model: Metal Halide Color: Pulse-Start</p> <p>11. Mfg: LED Lighting Model: Varies</p>
26 5670	Solar-Powered Exterior Lighting	Parking Lot	Solar Lighting (Bollards)
			<p>1. Mfg: SPCO Model: Various www.sepco-solarlighting.com</p>
26 5670	Solar-Powered Exterior Lighting	Parking Lot	Solar Lighting (Security)
			<p>1. Mfg: SEPSCO Model: Various www.sepco-solarlighting.com</p>
26 5670	Solar-Powered Exterior Lighting	Parking Lot	Solar Lighting (Parking)
			<p>1. Mfg: SEPSCO Model: Various www.sepco-solarlighting.com</p> <p>2. Mfg: SOL Model: 2020 Solar LED Lighting www.solarlighting.com</p>

DIVISION 27: COMMUNICATIONS

CSI SPEC SECTION		PARK GUIDELINE SECTION	PRODUCT	REGIONAL AGENCY PREFERRED MANUFACTURE
27 4000	Audio-Visual Communications	Gym Bldg	Public Address System - Speakers	1. Mfg: Fender Model: Varies 2. Mfg: Guitar Center (Vendor) Model: Varies 3. Mfg: Best Buy (Vendor) Model: Varies
27 5000	Communications	Gym Bldg	Telephone System	1. Mfg: Nortel Networks 2. Mfg: Avaya Inc. 3. Mfg: CISCO 4. Mfg: ISD
27 5000	Communications	Community Bldg	Staff Offices - Telephone Conference	1. Mfg: Green Electronics Council 2. Mfg: Electronic Product Environmental Assessment Tool
<u>DIVISION 28: ELECTRONIC SAFETY AND SECURITY</u>				

CSI SPEC SECTION	PARK GUIDELINE SECTION	PRODUCT	REGIONAL AGENCY PREFERRED MANUFACTURE
28 2030 Video Surveillance	Security & Safety	Security Cameras (Monitoring Systems)	<p>1. Mfg: Sileox Zoom Cameras Model:AC5318PGEO, Color: White or Black</p> <p>2. Mfg: Sielox – Fixed Cameras Model:AC-LT-C485-21 Color:White or Black</p> <p>3. Mfg: Bosch Networking/DVR Model:CM6800 Color:Black</p> <p>4. Mfg: Secure Model:DVR Lockbox w/ Key Cylinder</p> <p>5. Mfg: Bosch – Alarm Panels Model:9412 Color:N/A (White Keypads) with armored cable (no plastic)</p> <p>6. Mfg: Delco Model: Spectra IV IP PT2 Network Camera Color: White Finish: Matte</p> <p>7. Mfg: Pelco Model: Spectra HD Color: White Finish: Matte</p> <p>Notes: All cameras are to be networked based with room provided in the server for cameras and expandability. Remote viewing is a must.</p>
<u>DIVISION 31: EARTHWORK</u>			
No Preference			
<u>DIVISION 32: EXTERIOR IMPROVEMENTS</u>			
32 1313 Concrete Color Additives	Splash Pad	Concrete Coloring	<p>1. Mfg: Eco Safety Products Model: SoyCrete Stain</p> <p>2. Mfg: Northwest Concrete Enterprises Model: Sustainable Stain</p>

CSI SPEC SECTION	PARK GUIDELINE SECTION	PRODUCT	REGIONAL AGENCY PREFERRED MANUFACTURE
32 1443	Porous Unit Pavers	Pedestrian Circulation Permeable Pavers	1. Mfg: Stepstone, Inc. Model: 3P Pervious Pedestrian Pavers 2. Mfg: Belgard Model: Aqua Roc
32 1540	Decomposed Granite Paving	Pedestrian Circulation Decomposed Granite	1. Mfg: Southeast Construction (Vendor) Color: Varies 2. Mfg: P.T.I. Sand & Gravel Inc. Color: Varies 3. Mfg: All Valley Sand & Gravel Model: Varies (d.g. and gravel)
32 1540	Decomposed Granite Surface	Pedestrian Circulation Decomposed Granite Stabilized	1. Mfg: Stabilizer Solutions Model: Stabilizer 2. Mfg: Stabilizer Solutions Model: Polymer 3. Mfg: Gail Materials Model: NexPave Organic - Lock Finish: Aggregate Paving
32 1540	Decomposed Granite Surface	Fitness Zone Surface Materials	1. Mfg: Southeast Construction (Vendor) Color: Varies SECO@southeastproducts.com 2. Mfg: P.T.I. Sand & Gravel, Inc. Color: Varies Mellenda@ptisandandgravel.com 3. Mfg: All Valley Sand & Gravel Model: Varies (DG and Gravel) www.allvalleysandandgravel.com
32 1700	Paving Specialties	Vehicular Circulation Speed Humps	1. Mfg: Barco Products Model: Rubber Speed Bumps (Recycled Rubber) 2. Mfg: Rubberform Recycled Products, LLC Model: Rubberform Speed Bumps
32 1720	ADA Tactile Warning Surfaces	Pedestrian Circulation ADA Truncated Domes	1. Mfg: Stepstone, Inc. Model: Truncated Dome Pavers
32 1821	Specialty Sports Soils	Equestrian Equestrian Arena Surfacing	1. Mfg: Gail Materials Model: Tru-Ride Premium Arena Mix

CSI SPEC SECTION		PARK GUIDELINE SECTION	PRODUCT	REGIONAL AGENCY PREFERRED MANUFACTURE
32 1821	Specialty Sports Soils	Ball Fields	Brick Dust	1. Mfg: Stabilizer Solutions Model: "Pro Red" Infield Mix
32 1821	Specialty Sport Soils	Volleyball Court	Sand	1. Mfg: Model: Use washed masonry sand or equal (for texture)
32 1821	Specialty Sport Soils	Fitness Zone	Surface Materials	1. Mfg: USSA Model: Poured Rubber Surfacing Color: Finish: 2. Mfg: Nike Model: Nike Grind Color: Finish:
32 1828	Tennis Court Surfacing	Tennis Court	Tennis Court Surfacing	1. Mfg: Plexipave Model: Plexipave Standard System 2. Mfg: Plexipave Model: Plexicushion 3. Mfg: Malibu Pacific Tennis Courts (Vendor)
32 1840	Playground Protective Surfaces	Splash Pad	Engineered Wood Fiber Surfacing	1. Mfg: Fibar Playground Surfaces Model: Fibar Systems 2. Mfg: Zeager Model: Playground and Trail Surface
32 1840	Playground Protective Surfaces	Splash Pad	Rubber Tile Surfacing	1. Mfg: Surface America Model: PlayBound Tile 2. Mfg: EMC Environmental Molding Concepts 3. Mfg: Rubber-Cal Inc. Model: 2.5" Eco-Safety Tiles
32 1840	Playground Protective Surfaces	Splash Pad	Poured in Place Surfacing	1. Mfg: Surface America Model: Playbound Poured-in-Place 2. Mfg: No Fault Company Model: Bonded Rubber Surfacing

CSI SPEC SECTION		PARK GUIDELINE SECTION	PRODUCT	REGIONAL AGENCY PREFERRED MANUFACTURE
32 3100	Decorative & Ornamental Fences and Gates	Children's Play Area	Decorative Fencing	1. Mfg: Shanghai Seven Trust Industry Co. Ltd Model: Plastic Wood
32 3110	Decorative & Ornamental Fences and Gates	Individual Picnic Areas	Steel Picket Fencing	1. Mfg: Himco Security
32 3113	Chainlink Fences and Gates	Maintenance Bldg/Yard	Gates	1. Mfg: Landscape Structures Model: Custom 4'-8" Gate w/hinges and latch Color: Red Finish: Powder Coated
32 3113	Chainlink Fences and Gates	Ball Fields	Chainlink Fence	1. Mfg: Allied Tube and Conduit Model: Stainless Steel 40 Tube
32 3113	Chainlink Fences and Gates	Individual Picnic Areas	Chainlink Fencing	1. Mfg: Crown Fence Model: Various 2. Mfg: Pilgrim Fence Model: Various 3. Mfg: Wolverine Fence Model: Various
32 4100	Bollards	Parking Lot	Bollards	1. Mfg.: County of LA - DPR - Regional Carpenter Shop
32 8400	Planting Irrigation	Irrigation	Weather Based Irrigation Controller	1. Hydropoint Model: Hydrosafe w/ WeatherTRAK www.hydpoint.com www.weathertrak.com www.hydroscape.com
32 8400	Planting Irrigation	Irrigation	Master Valve	1. Mfg: Hunter Industries Model: ICB or IBV www.hunterindustries.com 1. Mfg: Rain Bird Model: PGA/PEB/PESB Series www.rainbird.com
32 8000	Irrigation	Irrigation	Flow Sensor	1. Mfg: Hunter Industries Model: Flow-Clik or Flow-Sync www.hunterindustries.com 1. Mfg: Rain Bird Model: Pulse Transmitters www.rainbird.com

CSI SPEC SECTION	PARK GUIDELINE SECTION	PRODUCT	REGIONAL AGENCY PREFERRED MANUFACTURE
32 8400 Planting Irrigation	Irrigation	Backflow Prevention Device	1. Mfg: ABPA Model: Trade Organization www.abpa.org 2. Mfg: Backflowprevention.com Model: Trade Organization 3. Mfg: Accurate Backflow Testing & Valve Repair Model: Service Company www.accuratebackflow.net 4. Mfg: FEBCO Backflows Model: Various www.febcoonline.com 5. Mfg: Watts Backflows Model: 800 Series; QT Series www.watts.com
32 8400 Planting Irrigation	Irrigation	Backflow Device Lockable Enclosure	1. Mfg: Guardshack Model: Enclosures-Variou Color: Green Finish: Powder Coat www.guardshackenclosures.com 2. Mfg: Backflow Protection Model: Ultimate Tuff Cage www.backflowprotection.com
32 8400 Planting Irrigation	Irrigation	Pressure Regulator	1. Mfg: Watts Model: Various www.watts.com
32 8400 Planting Irrigation	Irrigation	Manual Control Valves (Gate or Globe)	1. Mfg: Watts Model: Gate Valves www.watts.com 2. Mfg: Nibco Model: Gate Valves www.nibco.com
32 8400 Planting Irrigation	Irrigation	Remote Control Valves	1. Mfg: Rainbird Model: GB Series Electric Valves 2. Mfg: Rainbird Model: EFB-CP Series Electric Valves

CSI SPEC SECTION		PARK GUIDELINE SECTION	PRODUCT	REGIONAL AGENCY PREFERRED MANUFACTURE
32 8400	Planting Irrigation	Irrigation	Check Valves (Anti-Drain Valves)	1. Mfg: Griswold Model: Varies 2. Mfg: King-Bros Model: CV 300 Color: Black Finish: Plastic
32 8400	Planting Irrigation	Irrigation	Quick Couplers	1. Mfg: Rainbird Model: Rainbird QC www.rainbird.com
32 8400	Planting Irrigation	Irrigation	Valve Boxes (Traffic and Non Traffic)	1. Mfg: Rainbird Model: VB Series Valve Boxes 2. Mfg: Highline Products Model: Various Finish: www.highlineaccessboxes.com 3. Mfg: Christy Concrete Valve Boxes Model: Various sizes Finish: www.ewing1.com
32 8400	Planting Irrigation	Irrigation	Valve Box Covers (Reclaimed Water Control Valves)	1. Mfg: Rain Bird Model: VB Series Valve Boxes 2. Mfg: Highline Products Model: Various Finish: www.highlineaccessboxes.com
32 8400	Planting Irrigation	Irrigation	Sensors (Rain, Wind, etc.)	1. Mfg: Rain Bird Model: RSD Series Rain Sensor 2. Mfg: Toro Model: Wired Rain Sensor 3. Mfg: Hunter Industries Model: Mini-Click Rain Sensor Finish: Plastic www.hunterindustries.com
32 8400	Planting Irrigation	Irrigation	Spray Heads (Rotor)	1. Mfg: Hunter Rotator Model: MP 2000 Series www.hunterindustries.com

CSI SPEC SECTION	PARK GUIDELINE SECTION	PRODUCT	REGIONAL AGENCY PREFERRED MANUFACTURE
32 8400	Planting Irrigation	Irrigation	Spray Heads (Fixed)
			1. Mfg: Rainbird Model: Rainbird 1800 Series www.rainbird.com
32 8400	Planting Irrigation	Irrigation	Spray Heads (Stream Spray)
			1. Mfg: Hunter Rotator Model: PGM and PGP Series www.hunterindustries.com 1. Mfg: Rain Bird Model: Falcon 6504 Series Rotor www.rainbird.com
32 8400	Planting Irrigation	Irrigation	Bubblers
			1. Mfg: Rainbird Model: 1300 A-F Adj Bubblers www.rainbird.com
32 8400	Planting Irrigation	Irrigation	Low Volume Irrigation Equipment
			1. Mfg: Hunter Industries Model: Eco-Mat and PLD-ESD 2. Mfg: Hunter Industries Model: Root Zone Watering System 3. Mfg: Rain Bird Model: XFS Subsurface Dripline 4. Mfg: Netafim USA Model: Netafim Tubing
32 9120	Mulches, Chemicals and Nutrients	Landscaping	Organic Mulch
			1. Mfg: Whittier Fertilizer Model: Various Finish: www.whittierfertilizer.com 2. Mfg: Agriscap, Inc. Model: Green Waste Recycling Finish: www.agriscapsoils.com 2. Mfg: CalRecycle Model: Compost and mulch facilities Finish: www.calrecycle.ca.gov

CSI SPEC SECTION		PARK GUIDELINE SECTION	PRODUCT	REGIONAL AGENCY PREFERRED MANUFACTURE
32 9452	Root Barriers	Landscaping	Root Barriers	1. Mfg: DeepRoot Green Infrastructure Model: Linear www.deeproot.com 2. Mfg: Fiberweb Model: BioBarrier by Typar www.biobarrier.com 3. Mfg: Century Products Model: Century Root Barrier Color: Black www.centuryrootbarrier.com 4. Mfg: NDS Root Barrier Model: EP, RP, Sheet, Planter Color: Black (Plastic) www.NDSpro.com
32 9455	Tree Staking Systems	Landscaping	Tree Staking Systems	1. Mfg: Green Sleeves Model: 2-stake system www.greensleeves.com 2. Mfg: DeepRoot Green Infrastructure Model: ArborTie Staking and Guying www.deeproot.com 3. Mfg: ArborBrace Model: Tree Guying Kits www.treestaking.com 4. Mfg: Lodge Pole Stakes www.butlerboxandstake.com
32 9457	Tree Grates and Guards	Landscaping	Tree Guards	1. Mfg: Citygreen Model: Traditional Tree Guards www.citygreen.com 1. Mfg: IronSmith Model: All Steel Tree Guards Color: Varies www.ironsmith.cc
DIVISION 33: UTILITIES				
33 4000	Storm Water Drains	Grading & Drainage	Atrium Drains	1. Mfg: NDS Model: Atrium Grates www.ndspro.com

CSI SPEC SECTION	PARK GUIDELINE SECTION	PRODUCT	REGIONAL AGENCY PREFERRED MANUFACTURE
33 4000 Storm Water Drains	Grading & Drainage	Traffic and Non-Traffic Covers	1. Mfg: Alhambra Foundry Model: Various www.alhambrafoundry.com 2. Mfg: NDS Model: Various www.ndspro.com

Appendices

Plant Regions and Categories

Preferred Plant List - Potable Water

Preferred Plant List - Recycled Water

Do Not Use - Plant List

County of Los Angeles Park Standards
and Classification

Reference and Resources

The following information is an excerpt from the Water Use Classification of Landscape Species (WUCOLS IV) list found in the publication: A Guide to Estimating Irrigation Water Needs of Landscape Plantings in California. This information has been included to assist in understanding the Preferred PoTable Water and Preferred Recycled Water Plant List to follow. The park designer is expected to reference the Guide to Estimating Irrigation Water Needs of Landscape Plantings in California document when preparing planting plans for park projects, to estimate the water requirements of the plants specified. For plant suitability to a particular climate zone the designer should reference California climate zones as described in the University of California Publication, 3328, Generalized Plant Climate Zones of California and Sunset Western Garden Book.

Regions

Since there are substantially different climate zones in California, species are evaluated for six (6) regions which represent different climatic conditions.

Region 1 - North-Central Coastal (California Climate Zones 14, 15, 16 and 17)

Concord	Napa	San Francisco
Cupertino	Novato	San Jose
Healdsburg	Oakland	San Luis Obispo
Livermore	Petaluma	Santa Cruz
Los Altos Hills	Salinas	Santa Rosa

Region 2 - Central Valley (California Climate Zones 8, 9 and 14)

Auburn	Los Banos	Redding	Visalia
Bakersfield	Marysville	Roseville	
Chico	Merced	Sacramento	
Colinga	Modesto	Stockton	
Fresno	Red Bluff	Tracy	

Region 3 - South Coastal (California Climate Zones 22, 23 and 24)

Anaheim	Laguna Beach	Oxnard	Santa Monica
Camarillo	La Mesa	Santa Ana	Ventura
Fallbrook	Long Beach	Santa Barbara	Vista
Fullerton	Los Angeles	San Diego	Whittier
Irvine	Mission Viejo	San Juan Capistrano	

Region 4 - South Inland Valleys and Foothills (California Climate Zones 18, 19, 20 and 21)

Altadena	El Monte	Perris	San Fernando
Azusa	Escondido	Pomona	Santa Paula
Chino	Hemet	Ramona	Sun City
Corona	Ojai	Riverside	Thousand Oaks
Covina	Pasadena	San Bernardino	Van Nuys

Region 5 - High and Intermediate Desert (California Climate Zone 11)

Apple Valley	Gorman	Mojave	Victorville
Barstow	Independence	Olancha	
Bishop	Joshua Tree	Palmdale	
Boulder City	Lancaster	Pear Blossom	
China Lake	Lone Pine	Tehachapi	

Region 6 - Low Desert (California Climate Zone 13)

Borrego Springs	Desert Hot Springs	Jacumba	Thermal
Blythe	Death Valley	Needles	
Brawley	El Centro	Palm Desert	
Coachella	Indian Wells	Palm Springs	
Desert Center	Indio	Rancho Mirage	

CATEGORIES OF WATER NEEDS

Plant species are evaluated as needing High, Moderate, Low, and Very Low amounts of irrigation water. Expressed as a percentage of reference evapotranspiration (ET_o), these categories are quantitatively defined as follows:

High (H)	=	70% - 90% ET _o
Moderate (M)	=	40% - 60% ET _o
Low (L)	=	10% - 30% ET _o
Very Low (VL)	=	<10% ET _o
-	=	Inappropriate
?	=	Unknown

Preferred Plant List - Potable Water

Botanical Name	Common Name	Regional Evaluation				Notes
		3	4	5	6	
TREES						
Acacia cognata	Bower Wattle	M	M	-	-	Drought Tolerant / Can be short lived
Acacia pendula	Weeping Acacia	M	M	-	L	Drought Tolerant / Can be short lived
Acacia stenophylla Shoe	Shoestring Acacia	L	L	-	L	Drought Tolerant / Can be short lived
Arbutus unedo	Strawberry Tree	L	L	M	M	
Calocedrus Decurrens (aka Libocedrus)	Incense Cedar	M	M	M	-	California native Drought Tolerant
Cedrus atlantica 'glauca'*	Blue Atlas Cedar	L	M	M	M	Drought Tolerant
Cedrus deodara	Deodar Cedar	L	M	M	M	
Cercis canadensis	Eastern Redbud	M	M	-	-	Drought Tolerant
Cercis occidentalis	Western Redbud	L	L	-	-	California native / Drought Tolerant
Cinnamomum camphora	Camphor Tree	M	M	-	M	Drought Tolerant
Cornus nuttallii	Western Dogwood	-	M	-	-	California native / Drought Tolerant
Fraxinus oxycarpa 'Raywood'	Raywood Ash	M	M	M	-	Invasive roots
Geijera parviflora	Australian Willow	L	M	M	M	Drought Tolerant
Ginko biloba	Maidenhair Tree	M	M	M	?	Male variety only
Ilex vomitoria	Yaupon	L	L	M	M	
Jacaranda mimosifolia	Jacaranda	M	M	-	M	
Lagerstroemia indica*	Crepe Myrtle	M	M	M	M	Striking bark
Laurus nobilis	Sweet Bay	L	L	M	M	Drought Tolerant / Culinary bay leaf
Leptospermum laevigatum -	Australian Tea Tree	L	L	-	-	Drought Tolerant
Ligustrum lucidum*	Glossy Privet	M	M	M	M	Reseeds
Lophostemon confertus	Brisbane Box	M	M	-	-	Drought Tolerant
Magnolia grandiflora	Evergreen Magnolia	M	M	-	H	White flower
Melaleuca linariifolia	Flax Leaf Paperbark	L	L	-	-	
Melaleuca quinquenervia	Punk Tree	M	M	-	M	Drought Tolerant
Melaleuca styphelioides	Prickly-leaved Paperbark	L	M	-	M	Drought Tolerant
Metrosideros excelsa	New Zealand Christmas Tree	M	M	-	-	Drought Tolerant
Picea breweriana	Weeping Spruce	?	?	?	?	California native
Pinus canariensis	Canary Island Pine	L	M	M	M	
Pinus halapensis	Aleppo Pine	L	L	L	L	
Pistachia chinensis	Chinese Pistache	M	M	M	M	Drought Tolerant
Pittosporum sp.	various	?	?	-	?	Drought Tolerant / Sensitive to severe frost / Water requirements vary - refer to WUCOLS III
Platanus acerifolia	London Plane Tree Sycamore	M	M	H	H	
Platanus racemosa	California sycamore	M	M	H	H	Drought Tolerant
Podocarpus gracilior	Fern Pine	M	M	?	M	Drought Tolerant
Prunus cerasifera 'atropurpurea'	Purple Leaf Plum	M	M	M	M	
Prunus ilicifolia	Hollyleaf Cherry	VL	VL	-	-	Drought Tolerant / California native
Quercus agrifolia	Coast Live Oak	L	L	-	M	Drought Tolerant / California Native
Quercus ilex	Holly Oak	L	L	M	M	Drought Tolerant
Quercus tomentella	Island Oak	L	-	-	-	Drought Tolerant / California Native

Botanical Name	Common Name	Regional Evaluation				Notes
		3	4	5	6	
<i>Quercus suber</i>	Cork Oak	L	L	L	L	Source of cork
<i>Quercus</i> various varieties	Deciduous and Evergreen	?	?	?	?	Drought Tolerant / Water requirements vary - refer to WUCOLS III
<i>Umbellularia californica</i>	California Bay	M	M	-	-	Drought Tolerant
SHRUBS/ PERENNIALS						
<i>Abelia floribunda</i>	Mexican Abelia	M	M	-	-	
<i>Abelia x grandiflora</i>	Glossy Abelia	M	M	-	-	
<i>Adenanthos</i> sp.	NCN	?	?	?	?	Drought Tolerant
<i>Anisodonte</i> sp.	Cape Mallow	M	M	-	M	Drought Tolerant
<i>Arctostaphylos</i> sp	Manzanita	L	L	-	-	Drought Tolerant / County native
<i>Artemisia</i> sp.	Sagebrush/Wormwood	L	L	L	L	Drought Tolerant
<i>Bougainvillea</i> sp.	Bougainvillea	L	L	-	M	Drought Tolerant
<i>Buxus microphylla japonica</i>	Japanese Boxwood	M	M	M	M	
<i>Carissa macrocarpa</i> various varieties	Natal Plum	M	M	-	M	Drought Tolerant / Fruiting shrub
<i>Ceanothus gloriosus</i>	Pt. Reyes Ceanothus	VL	L	L	-	Drought Tolerant / California native
<i>Ceanothus griseus</i>	Carmel Creeper	VL	L	L	-	Drought Tolerant / California native
<i>Ceanothus</i> cultivars	Wild Lilac	L	L	L	-	California native
<i>Cercis canadensis</i>	Forest pansy	M	M	-	-	
<i>Cercis occidentalis</i>	Western Redbud	L	L	-	-	California native
<i>Chaenomeles</i> sp	Flowering Quince	M	M	L	M	Many varieties
<i>Coleonema</i> sp.	Breath of Heaven	M	M	-	-	Drought Tolerant
<i>Correa</i> sp.	Australian Fuchsia	L	L	-	M	Drought Tolerant
<i>Dianella tasmanica</i>	Blueberry	M	M	-	?	Drought Tolerant
<i>Dietes</i> sp.	Fortnite Lily	M	M	-	M	Drought Tolerant
<i>Dodonea viscosa</i> 'purpurea'*	Purple Hopseed Bush	L	M	-	M	Drought Tolerant / Sensitive to severe frost
<i>Escallonia</i> various varieties	No Common Name	M	M	-	M	Wide variety of sizes
<i>Euonymus fortunei</i> and cultivars	No Common Name	M	M	M	-	
<i>Euryops pectinatus</i>	Bush Daisy	L	L	M	M	Drought Tolerant / Dark green or grey green foliage
<i>Garrya elliptica</i>	Coast Silktassel	L	M	-	-	California native
<i>Heteromeles arbutifolia</i>	Toyon	L	L	-	-	Drought Tolerant / California native
<i>Lavandula angustifolia</i>	English Lavender	L	L	M	M	
<i>Lavandula stoechas</i>	Spanish Lavender	L	L	M	M	Drought Tolerant
<i>Lavatera assurgentiflora</i>	Tree Mallow	L	L	-	M	Drought Tolerant / California Native
<i>Leptospermum scoparium</i>	New Zealand Tea Tree	M	M	-	-	Drought Tolerant / Sensitive to severe frost
<i>Mahonia aquifolium</i>	Oregon Grape	M	M	M	M	Drought Tolerant / California native
<i>Myrtus communis</i>	Common Myrtle	L	M	M	M	Drought Tolerant
<i>Nandina domestica</i>	Heavenly Bamboo	L	M	M	M	Drought Tolerant / Many varieties; not a bamboo
<i>Phormium tenax</i> and cultivars	New Zealand Flax	L	M	-	M	Drought Tolerant

Botanical Name	Common Name	Regional Evaluation				Notes
		3	4	5	6	
<i>Photinia fraserii</i>	Photinia	M	M	M	M	
<i>Pinus mugo</i>	Mugo Pine	-	M	M	-	Drought Tolerant
<i>Pittosporum</i> various varieties	various	?	?	?	?	Water requirements vary - refer to WUCOLS III
<i>Rhamnus alaternus</i>	Italian Buckthorn	L	M	-	-	Drought Tolerant
<i>Rhamnus californica</i>	California Coffee Berry	VL	L	-	M	Drought Tolerant / California native
<i>Rhaphiolepis indica</i> and cultivars*	Yeddo	M	M	M	M	
<i>Ribes sanguineum</i> var. <i>glutinosum</i>	Red Flowering Currant Hawthorne	L	M	-	-	Drought Tolerant / California native
<i>Rosa</i> sp.	Rose	M	M	H	H	Many varieties
<i>Rosmarinus officinalis</i> * & cultivars	Rosemary	L	L	M	M	Drought Tolerant / Prostrate and upright forms
<i>Salvia leucantha</i>	Mexican Sage	L	L	-	M	Drought Tolerant
<i>Westringia fruticosa</i>	Coast Rosemary	L	L	-	M	Drought Tolerant
<i>Xylosma congestum</i>	Shiny Xylosma	M	M	M	M	
GROUNDCOVERS AND VINES						
<i>Acacia redolens</i> "Low Boy"	Low Boy Acacia	L	L	L	L	Drought Tolerant / Can be short lived
<i>Aptenia cordifolia</i>	No Common Name	L	L	-	H	Drought Tolerant
<i>Arctostaphylos densiflora</i>	Vine Hill Manzanita	L	L	-	-	Drought Tolerant
<i>Arctostaphylos uva-ursi</i>	Bearberry	L	L	-	-	Drought Tolerant / California native
<i>Bougainvillea spectabilis</i>	Bougainvillea	L	L	-	M	Drought Tolerant
<i>Baccharis pilularis</i>	Dwarf Coyote Bush	L	L	-	-	Drought Tolerant / California native
<i>Cotoneaster</i> sp. groundcover	Cotoneaster	M	M	M	M	Drought Tolerant
<i>Dymondia margaretae</i>	No Common Name	L	L	-	-	
<i>Gazania</i> sp.	Gazania	M	M	M	M	
<i>Juniperus</i> sp.	various	L	M	M	M	Drought Tolerant / Many varieties
<i>Lantana montevidensis</i> and cultivars	Lantana	L	L	-	M	Drought Tolerant
<i>Myoporum parvifolium</i> 'prostratum' and cultivars	Prostrate Myoporum	L	L	-	M	Plant in non-traffic areas
<i>Santolina chamaecyparissus</i>	Lavender Cotton	L	L	L	L	Drought Tolerant
<i>Senecio mandraliscae</i>	No Common Name	L	M	-	-	Drought Tolerant
<i>Thymus serpyllum</i> and other varieties	Creeping Thyme	M	M	M	M	Drought Tolerant
<i>Rosa banksiae</i>	Lady Banks Rose	M	M	M	M	
PERENNIALS, ORNAMENTAL GRASSES AND FERNS						
<i>Acanthus mollis</i>	Bear's Breach	M	M	-	M	
<i>Achillea</i> sp.	Yarrow	?	?	?	?	Drought Tolerant / California native / Water requirements vary - refer to WUCOLS III
<i>Agapanthus africanus</i>	Lily of the Nile	M	M	-	M	Drought Tolerant
<i>Aquilegia</i> sp.	Columbine	M	M	M	M	Drought Tolerant / California native / Can be short lived
<i>Armeria maritima</i>	Sea Thrift	M	M	M	M	Drought Tolerant / California native

Botanical Name	Common Name	Regional Evaluation				Notes
		3	4	5	6	
<i>Centuarea cineraria</i>	Dusty Miller	M	M	-	M	Drought Tolerant
<i>Erigeron karvinskianus</i>	Fleebane	M	M	M	M	Drought Tolerant
<i>Eschscholzia californiaca</i>	California Poppy	L	L	L	L	Drought Tolerant / California native
<i>Fescue glauca</i>	Blue Fescue	M	M	M	M	Drought Tolerant
<i>Gaillardia x grandiflora</i>	Blanket Flower	M	M	M	M	
<i>Hemerocalis sp</i>	Day Lily	M	M	M	M	Many varieties
<i>Heuchera sanguinea</i>	Corral Bells	M	M	M	M	California native
<i>Penstemon wild sp.</i>	Penstemon	L	L	L	L	Drought Tolerant / California native
<i>Polystichum munitum</i>	Western Sword Fern	M	H	-	H	California native
<i>Sedum sp.</i>	Stonecrop	L	L	L	L	Drought Tolerant
<i>Stachys byzantina</i>	Lamb's Ears	M	M	-	M	Drought Tolerant
<i>Tulbaghia violacea</i>	Society Garlic	M	M	-	M	Sensitive to frost
<i>Zauschneria californica</i> (aka <i>Epilobium</i>)	California Fuchsia	VL	L	M	M	Drought Tolerant / California native; many varieties

Preferred Plant List - Recycled Water

The following plant materials list consists of drought tolerant, low water use plants that are appropriate to use in the County of Los Angeles, and are the preferred plant material to use for recycled water.

Botanical Name	Common Name	Regional Evaluation				Notes
		3	4	5	6	
TREES						
Acacia greggii *	Catclaw Acacia *	L	L	L	L	Drought Tolerant / California native / Can be short lived
Acer buergerianum	Trident Maple	M	-	-	-	
Acer campestre	Hedge Maple	?	?	-	-	
Arbutus unedo	Strawberry Tree	L	L	M	M	
Butia capitata	Pindo Palm	L	L	L	L	
Casuarina cunninghamiana	River She-Oak	L	L	M	M	
Casuarina stricta	Beefwood	L	L	M	M	Drought Tolerant
Cedrus deodara	Deodar Cedar	L	M	M	M	Drought Tolerant
Cercis occidentalis	Western Redbud	L	L	-	-	Drought Tolerant / California native
Cercocarpus betuloides	Hardtack - Mountain Mohogany	VL	VL	VL	-	Drought Tolerant / California native
Cordyline indivisa	Blue Dracaena	?	?	?	?	Drought Tolerant
Cupressocyparis X leylandi	Leyland Cypress	M	-	M	M	
Cupressus sempervirens	Italian Cypress	L	L	M	M	Drought Tolerant
Jacaranda acutifolia	Jacaranda	M	M	-	M	Drought Tolerant
Juniperus californica	California Juniper	L	L	L	L	Drought Tolerant / California native
Melaleuca spp.	Melaleuca	?	?	-	?	Drought Tolerant
Metrosideros excelsa	New Zealand Christmas Tree	M	M	-	-	Drought Tolerant
Phoenix dactylifera	Date Palm	L	L	M	M	
Pinus cembroides	Mexican Pinon Pine	?	?	?	?	Drought Tolerant
Platanus racemosa	California Sycamore	M	M	H	H	Drought Tolerant / California native
Prunus ilicifolia	Hollyleaf Cherry	VL	VL	-	-	California native
Prunus lyonii	Catalina Cherry	L	L	-	-	California native
Quercus agrifolia	Coast Live Oak	L	L	-	M	Drought Tolerant / California native
Quercus rubra	Northern Red Oak	-	M	-	-	Drought Tolerant
Quercus virginiana	Southern Live Oak	M	M	M	M	Drought Tolerant / California native
Sophora japonica	Japanese Pagoda Tree	M	M	M	M	
Ziziphus jujuba	Jujube, Chinese Date	L	M	M	M	
SHRUBS/ PERENNIALS						
Acacia redolens	Redolen Acacia	L	L	L	L	Drought Tolerant / California native
Agave spp.	Agave	L	L	-	L	Drought Tolerant / Sensitive to severe frost Agave attenuata is limited to region 3

Botanical Name	Common Name	Regional Evaluation				Notes
		3	4	5	6	
Aloe spp.	Aloe	L	L	-	L	Sensitive to severe frost
Artemisia pycnocephala	Sandhill Sage	L	L	L	L	Drought Tolerant / California native
Buxus japonica	Japanese Boxwood	M	M	M	M	Drought Tolerant
Carissa macrocarpa	Natal Plum	M	M	-	M	Drought Tolerant
Ceanothus gloriosus	Pt. Reyes Ceanothus	VL	L	L	-	Drought Tolerant / California native
Ceanothus thyrsiflorus	Blue Blossom	VL	L	L	L	Drought Tolerant / California native
Coleonema spp.	Breath of Heaven	M	M	-	-	Drought Tolerant
Dietes irioides	Fortnight Lily	M	M	-	M	Drought Tolerant
Eriogonum fasciculatum	California Buckwheat	VL	L	L	L	Drought Tolerant / California native
Escallonia rubra	Escallonia	M	M	-	M	
Euonymus japonica	Evergreen Euonymus	M	M	M	M	
Fremontia californicum	California Flannel Bush	VL	L	-	-	Drought Tolerant / California native
Heteromeles arbutifolia	Toyon	L	L	-	-	Drought Tolerant / California native
Isomeris arborea	Bladderpod	?	?	?	?	Drought Tolerant / California native
Juniperus virginiana "Skyrocket"	Skyrocket Juniper	L	M	M	M	Drought Tolerant
Lavatera assurgentiflora	Tree Mallow	L	L	-	M	Drought Tolerant / California native
Leucophyllum frutescens	Texas Ranger	L	L	L	L	Drought Tolerant
Leucophyta brownii	Cushion Bush	?	?	-	-	
Myoporum parvifolium	Myoporum	L	L	-	M	Drought Tolerant / Many forms
Myrtus communis	Tree Myrtle	L	M	M	M	Drought Tolerant
Rhamnus californica	Coffeeberry	VL	L	-	M	Drought Tolerant / California native
Rhapiolepis indica	Indian Hawthorn	M	M	M	M	Drought Tolerant once established
Rhus spp.	Sumac	?	?	?	?	Drought Tolerant / California native- Sensitive to severe frost / Water requirements vary - refer to WUCOLS III
Rosmarinus officinalis	Rosemary	L	L	M	M	Drought Tolerant
Senna (Cassia) artemisioides	Feathery Cassia	L	L	L	L	Drought Tolerant / Sensitive to severe frost
Simmondsia chinensis	Joboba	VL	VL	L	L	Drought Tolerant / California native- Sensitive to severe frost
Yucca aloifolia	Spanish Bayonet	L	L	L	L	Drought Tolerant / Sensitive to severe frost

Botanical Name	Common Name	Regional Evaluation				Notes
		3	4	5	6	
GROUNDCOVERS AND VINES						
Baccharis spp.	Coyote Brush/Desert Broom	L	L	-	-	Drought Tolerant / California native
Bougainvillea spectabilis	Bougainvillea	L	L	-	M	Drought Tolerant / Sensitive to severe frost
Gazania spp.	Gazania	M	M	M	M	Drought Tolerant
Lonicera hildebrandiana	Giant Honeysuckle	M	M	M	M	Drought Tolerant
Oenothera speciosa	Evening Primrose	L	L	M	M	Drought Tolerant / Dies quickly of root rot if over-watered
Plumbago auriculata	Cape Plumbago	M	M	-	M	Drought Tolerant
Portulaca grandiflora	Rose Moss	?	?	?	?	Drought Tolerant
PERENNIALS, ORNAMENTAL GRASSES AND FERNS						
Bromus carinatus	California Brome	?	?	-	?	Drought Tolerant / California native
Deschampsia elongata	Slender Hairgrass	L	L	-	-	Drought Tolerant
Drosanthemum hispidum	Rose Iceplant	L	L	-	L	Drought Tolerant
Elymus glaucus	Blue Wildrye	L	L	M	M	Drought Tolerant / California native
Festuca californica	California Fescue	M	M	M	M	California native
Muhlenbergia rigens	Deer Grass	L	M	M	M	Susceptible to fungi
Sporobolus airoides	Alkali Sakaton	?	?	?	L	California native
Stipa pulchra	Purple Needlegrass	VL	L	L	L	California native
Zoysia tenuifolia	Zoysia Grass	M	M	M	M	

Do Not Use - Plant List

The following list consists of plant material we consider inappropriate for our parkland. These plants may be invasive¹, short lived, delicate, require intensive maintenance or a strong attractant to bees. Do not use the plants listed.

Acacia dealbata - Silver Wattle	Cynodon dactylon - Bermudagrass	Nerium oleander - Oleander
Acacia cyclops - Western Coastal Wattle	Cytisus sp. - Broom	Nicotiana Glauca - Tree Tobacco
Acacia dealbata - Silver Wattle	Digitalis purpurea - Foxglove	Olea Europaea - Olive
Acacia decurrens - Green Wattle	Dimorphotheca sinuate - African Daisy	Onopordum Acanthium - Scotch Thistle
Acacia longifolia - Golden Wattle	Dipsacus sp. - Teasel	Oxalis sp. - Clover
Acacia melanoxylon - Black Acacia, Blackwood Acacia	Echium candicans - Pride-Of-Madeira	Parkinsonia aculeate - Mexican Palo Verde
Acacia paradoxa - Kangaroothorn	Elaeagnus Angustifolia - Russian-Olive	Pennisetum clandestinum - Kikuyugrass
Agrostis avenacea - Pacific Bentgrass	Erodium sp. - Filaree	Pennisetum setaceum - Crimson Fountaingrass
Agrostis stolonifera - Creeping Bentgrass	Eucalyptus camaldulensis - Red Gum	Phoenix canariensis - Canary Island Date Palm
Albizia lophantha - Plume Acacia	Eucalyptus globulus - Tasmanian Blue Gum	Picea pungens glauca - Blue Spruce
Asparagus asparagoides - Bridal Creeper	Euphorbia sp. - Spurge	Poa Pratensis - Kentucky Bluegrass
Asparagus asparagoides - Bridal Creeper	Festuca arundinacea - Tall Fescue	Populus fremontii - Western cottonwood
Atriplex semibaccata - Australian Saltbush	Ficus carica - Edible Fig	Prunus Cerasifera - Cherry Plum
Bellis Perennis - English Daisy	Foeniculum vulgare - Fennel	Pyracantha sp - Firethorn
Bromus sp. - Brome (Bromus carinatus - California Brome is acceptable)	Fraxinus uhdei - Tropical Ash	Pyrus calleryana - Callery Pear
Callistemon citrinus - Crimson Bottlebrush	Fraxinus velutina 'Modesto' - Velvet Ash	Pyrus kawakamii - Evergreen Pear
Callistemon viminalis - Weeping Bottlebrush	Genista Monspessulana - French Broom	Ranunculus Repens - Creeping Buttercup
Carpobrotus sp. - Iceplant	Geranium sp. - Geranium	Retama monosperma - Bridal Broom
Centaurea sp. - Knapweed / Starthistle	Grevillea robusta - Silk Oak	Robinia pseudoacacia - Black Locust
Chrysanthemum coronarium - Crown Daisy	Hedera helix, H. canariensis - English Ivy, Algerian Ivy	Schinus molle - California Peppertree
Cirsium sp. - Thistle	Helichrysum petiolare - Licoriceplant	Schinus terebinthifolius - Brazilian Peppertree
Convolvulus arvensisfield - Bindweed	Hypericum sp. - Hypericum	Solanum elaeagnifolium - Silverleaf Nightshade
Cortaderia Selloana - Pampasgrass	Iris Pseudacorus - Yellowflag Iris	Spartium junceum - Spanish broom
Cotoneaster Lacteus - Parney's Coto-neaster	Leucanthemum Vulgare - Ox-Eye Daisy	Spartium junceum - Spanish Broom
Cotoneaster Pannosus - Silverleaf Coto-neaster	Linaria sp.- Toadflax	Vinca minor - Periwinkle
Crocsmia X crocosmiiflora - Montbretia	Lobularia maritima - Sweet Alyssum	Washingtonia robusta - Mexican Fan Palm
	Lolium multiflorum - Italian Ryegrass	Zantedeschia aethiopica - Calla Lily
	Lotus corniculatus - Birdsfoot Trefoil	
	Ludwigia sp. - Primrose	
	Myoporum laetum - Myoporum	
	Myosotis latifolia - Common Forget-Me-Not	

¹ For more information refer to the publication "The California Invasive Plant Inventory" by the California Invasive Plant Council (Cal-IPC) <http://www.cal-ipc.org/ip/inventory/index.php>

County of Los Angeles Parkland Standards and Classifications

Taken from County Draft and General Plan To be used as a reference by Field Agencies in preparing Facility Programs

LOCAL PARK SYSTEM				
FACILITY	ACRES PER THOUSAND POPULATION	SUGGESTED ACREAGE*	SERVICE AREA	TYPICAL PARK FEATURES / AMENITIES
Community Park	4 / 1,000	10 - 20 acres	1 - 2 mile	<p>Passive Park Amenities including but not limited to: informal open play areas, children's play apparatus, family and group picnic areas with overhead shelters, barbecues</p> <p>Active Sports Activities including but not limited to: lighted sports fields, basketball courts and tennis courts</p> <p>Additional amenities may include: aquatics complex, skate park, arena soccer, rollerhockey, community gardens and dog parks</p> <p>Park Facilities including but not limited to: public restrooms, concession building, community buildings, maintenance building and on-site parking and informational kiosks</p>
Neighborhood Park	4 / 1,000	3 - 10 acres	1/2 mile	<p>Passive Park Amenities including but not limited to: informal open play areas, children's play apparatus, family picnic areas with overhead shelters, barbecues</p> <p>Active Sports Activities including but not limited to: practice sports fields, basketball, tennis and volleyball courts</p> <p>Park Facilities including but not limited to: public restroom, on-site parking and informational kiosk</p>
Pocket Park	4 / 1,000	less than 3 acres	1/4 mile	<p>Passive Park Amenities including but not limited to: picnic areas and seating areas</p> <p>Active Park Amenities including but not limited to: children's play apparatus</p>
Park Node	4 / 1,000	1/4 acre or less	no service radius area	<p>Varies - can include: plazas, rest areas, playgrounds, landmarks and public art installations</p>
REGIONAL PARK SYSTEM				
FACILITY	ACRES PER THOUSAND POPULATION	SUGGESTED ACREAGE*	SERVICE AREA	TYPICAL PARK FEATURES / AMENITIES
Community Regional Park	6 / 1,000	20 - 100 acres	up to 20 miles	<p>Passive Park Amenities including but not limited to: informal open play areas, children's play apparatus, family and group picnic areas with overhead shelters and barbecues</p> <p>Active Sports Activities including but not limited to: lighted sports fields, basketball courts and tennis courts</p> <p>Additional features may include one or more of the following features: multiple sports facilities, aquatics center, fishing lake, community building and gymnasium and outstanding views and vistas.</p> <p>Park Facilities including but not limited to: public restrooms, concession building, maintenance building, informational kiosks and on-site parking</p>
Regional Park	6 / 1,000	greater than 100 acres	25+ acres	<p>Passive Park Amenities including but not limited to: group picnic areas with overhead shelters and barbecues</p> <p>Additional amenities may include one or more of the following features: lakes, wetlands, auditoriums, water bodies and campgrounds, water bodies for swimming, fishing and boating, and sports fields</p>
Special Use Facility	6 / 1,000	no size criteria	no assigned service radius area	<p>Generally single purpose facilities. Uses can include passive features such as: wilderness parks, nature preserves, botanical gardens and nature centers</p> <p>Active uses can include: performing arts, water parks, aquatic facilities, skate parks, golf driving ranges and golf courses</p>

*Actual park acreage is determined based on land availability and community needs and demands.

8.15.09

References and Resources

SECURITY AND SAFETY

Crime Prevention Through Environmental Design (CPTED) Resources on the topic can be obtained from the following:

International Society of Crime Prevention Practitioners: 1-412-655-1600

National Crime Prevention Institute: 1-505-588-6987

National Crime Prevention Council: 1-202-466-6272

National Institute of Justice: 1-800-851-3420

Bureau of Justice Assistance: 1-800-688-4252

American Institute of Architects Research Division: 1-202-879-7750

American Association of Retired Persons Criminal Justice Services: 1-202-434-2222

SUSTAINABLE SITE DESIGN

"The Sustainable Sites Initiative" <http://www.sustainablesites.org/>

"Green Building and Sustainability Guidelines for the County of Los Angeles 2008 Edition" <http://planning.lacounty.gov/green>

US Green Building Council and LEED Standards <http://www.usgbc.org/DisplayPage.aspx?CategoryID=19>

County of Los Angeles Low Impact Development Standards Manual January 2009 http://dpw.lacounty.gov/wmd/LA_County_LID_Manual.pdf

PLAYGROUNDS

"Handbook for Public Playground Safety" U.S. Consumer Product Safety Commission, Washington, DC 20207

"Standard Consumer Safety Performance Specification for Playground Equipment for Public Use" ASTM International Designation: F 1487

SALT TOLERANT PLANT MATERIAL

Salt Management Guide for Landscape Irrigation with Recycled Water in Coastal Southern California

By Kenneth Tanji¹, Stephen Grattan², Catherine Grieve³, Ali Harivandi⁴, Larry Rollins⁵, David Shaw⁶, Bahman Sheikh⁷, and Lin Wu⁸

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4 Ali Harivandi, University of California Cooperative Extension environmental horticulture advisor in turfgrass, soils, and water, Alameda County, California;

5 Larry Rollins, Technical writer specializing in hydrology and geology, Davis, California;

6 David Shaw, University of California Cooperative Extension advisor in landscape, turfgrass, and Christmas tree industry, San Diego County, California;

7 Bahman Sheikh, Water reuse specialist, independent consultant, San Francisco, California;

8 Lin Wu Professor emeritus in environmental horticulture, salt tolerance of native and landscape plants, Department of Environmental Horticulture, University of California–Davis

INVASIVE PLANT MATERIAL

California Invasive Plant Council (Cal-IPC) - <http://www.cal-ipc.org/>

California Weed Science Society (CWSS) - <http://www.cwss.org/>

Weed Research and Information Center (WeedRIC) - <http://wric.ucdavis.edu/>

Weed Science Society of America (WSSA) - <http://www.wssa.net/>

Western Society of Weed Science (WSWS) - <http://www.wsweed-science.org/>

STORMWATER MANAGEMENT

Watershed Management Division
Los Angeles County Department of Public Works Watershed section)
http://dpw.lacounty.gov/wmd/LA_County_LID_Manual.pdf

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