

City of Irvine
Park Standards Manual

**SECTION VIII. PUBLIC FACILITIES EQUIPMENT
SPECIFICATIONS**

A. PARK AND RECREATION EQUIPMENT SPECIFICATIONS

1. INTENT

The Community Services Commission believes that the preservation of the unique character or theme of each publicly owned park is important and should be maintained whenever possible. Further, this document is to serve as a guideline; there may be occasions when it is appropriate to depart from these standards. Departure from these standards will require approval from the Director of Community Services.

The specifications and details in this section of the manual are a culmination of years of investigation, experience, and history. Many factors were taken into consideration in arriving at these guidelines, including:

- Safety
- Inventory Standardization
- Maintainability of equipment
- Product availability and cost
- Initial and replacement costs
- Staff Resources
- Maintaining Aesthetics and Service Levels
- Applicable State and County Laws
- Recycling
- Environmental Concerns

In 1985, the City of Irvine began formulating a program to address the maintenance needs for park equipment. In February of 1986, the program formally began and is known as the Parks and Recreation Equipment Maintenance (PREM) Program. Its main priority is the maintenance of the park and recreation equipment that is under its responsibility.

2. PICNIC TABLES

General:	Two tables per acre for each of the first three acres, then one table per acre.
Size:	All tables and seats shall be 8 feet long.
Pads & Positioning:	Each table shall be placed in the center of a reinforced concrete pad, 12 feet long, 9 feet wide and 4 inches thick, with the length of the table parallel to the length of the pad.
Frames:	All frames shall be 2 ³ / ₈ inch OD galvanized metal. Positioning of frame to aluminum top and seats shall be per manufacturer's specifications. Comparables may be substituted only with prior approval from the Community Services Department.
Mounting:	All tables and seats shall be surface mounted, using stainless steel anchor bolts.
Materials:	<p>Recycled plastic products that look like wood should be used in place of wood. Concrete and wood are not acceptable materials.</p> <p>A. <u>Steel</u>: Any steel Dumor tables are acceptable if surface mounted.</p> <p>B. <u>Aluminum</u>: Tops, seats and endcaps shall be anodized aluminum consisting of a minimum 90 percent recycled material that has had alloy mixture adjustments made so that tensile and yield strengths remain constant.</p> <p>C. <u>Coated Expanded Metal</u>: Top and slats shall be fabricated from 11 gauge punched flat steel sheet with 11 gauge steel bracing welded to the underside for extra rigidity. Top and seat shall be coated with a ¹/₈-inch oven-cured poly-vinyl chloridide, dark brown in color.</p> <p>D. <u>Recycled Products</u>: Tables shall be made of wood-look 100 percent recycled lumber product or 100 percent recycled plastic, where only one type of recycled product is used consistently. Top and seat shall be UV stabilized. Frame shall be 2 ⁵/₈ inch OD aluminum or galvanized steel.</p>
Fasteners:	All frames shall be fastened to concrete slabs with a red head SRM 38 stainless steel drop-in anchor, a ³ / ₈ inch by 3 inch stainless steel hex head bolt and a ³ / ₈ inch flat stainless steel washer. Frame to frame connections shall be made with the appropriate size bolt made of stainless steel. No lag bolts will be accepted.
Labels:	All packing labels shall be removed prior to installation in a manner that does not damage the surfaces.
Accessibility:	At least 50 percent of all picnic tables shall be handicap accessible.
Preferred Models	<ul style="list-style-type: none"> • Any steel Dumor model (i.e.#77-80MGA) - with 4 holes drilled for mounting) • Gametime model #798 • Janus Etcie model #9852-ADA

3. PARK BENCHES

Guidelines:	Required at tot lots and athletic courts in addition to general locations.
Dimensions:	All benches shall be 6 feet long.
Pads & Positioning:	All park benches shall be placed on a reinforced concrete pad, 4 feet wide, 6 ½ feet long, and 4 inches thick. All benches shall be centered on the pad with the length of the bench parallel to the length of the pad. If there is a non-flush obstruction at the front of the bench, the bench shall either be placed flush to that obstruction or shall over-hang it, so as not to present a safety hazard.
Frames:	All frames shall be 2 ¾ inch OD galvanized surface mounted type. Comparables may be substituted only with prior approval from the Community Services Department.
Mounting:	All tables and seats shall be surface mounted, using stainless steel anchor bolts.
Materials:	<p>Recycled plastic products that look like wood should be used in place of wood. Concrete and wood are not acceptable materials.</p> <p>A. <u>Steel</u>: Any steel Dumor benches are acceptable if surface mounted.</p> <p>B. <u>Aluminum</u>: Seats, backs and endcaps shall be anodized aluminum consisting of a minimum 90 percent recycled material, that has had alloy mixture adjustments made so that tensile and yield strengths remain constant.</p> <p>C. <u>Coated Expanded Metal</u>: Seats and backs shall be poly-vinyl coated expanded metal. Finished poly-vinyl coating shall be approximately 0.08 inches thick with 85 durometer hardness and a matte finish. Color shall be dark brown.</p> <p>D. <u>Recycled Products</u>: Seats and backs shall be wood-look 100 percent recycled lumber product or 100 percent recycled plastic, where only one type of recycled product is used consistently. Seats and backs shall be UV stabilized. Frame shall be aluminum or galvanized steel.</p>
Accessibility:	At least 50 percent of all park benches should be handicapped accessible with companion seating space next to the bench, outside of the path of travel.
Labels:	All packing labels shall be removed prior to installation in a manner that does not damage the surfaces.
Fasteners:	<p>All fasteners shall be stainless steel.</p> <ul style="list-style-type: none"> ▪ All bench slats shall be fastened to the frame with stainless steel ¾ inch by 4 inch carriage bolt, ¾ inch flat washer and ¾ inch hex bolt. ▪ All frames shall be fastened to concrete slabs via a red head SRM 38 stainless steel drop-in anchor, a ¾ inch by 1 inch stainless steel hex head bolt, ¾ inch flat washer and ¾ inch lock washer, both stainless steel.
Preferred Models	<ul style="list-style-type: none"> • Dumor, any steel model if surface mounted • Gametime model #253 • Janus Etcie model #9825 (5 ft.)

4. DRINKING FOUNTAINS

Fountain:	All fountains shall be vandal resistant, dual purpose, handicap accessible, with exposed aggregate finish.
Pads & Positioning:	Each fountain shall be set on a 2 ½ feet long, 2 feet wide, 4 inches thick concrete slab and positioned in accordance with manufacturer’s specifications and California State Building Code Title 24, Part 5, Section P1507.
Fasteners:	All anchors and anchoring material (bolts, nuts, washers, etc.) shall be of stainless steel.
Drains:	All fountains shall be connected to sewer lines in accordance with the Uniform Plumbing Code.
Valves:	The incoming water lines shall have ball type shut-off valve located off the slab in an approved valve box. The valve body shall be of bronze or stainless steel. The interior parts shall be same type as the body.
Strainers:	The outgoing waste line shall have a minimum 2 inch “Y” type strainer installed and placed in an approved valve box off the slab. Strainer will be positioned to allow easy access to strainer opening.
Backflow Devices:	Portable lines shall have a reduced pressure principal device (RPPD). Backflow prevention device shall be installed and secured down-station of the meter. Installation will conform to City and IRWD Standards. Only devices approved by the USC Cross Connection Institute may be used. Installation will further conform to State regulations and manufacturers’ instructions. Should a difference occur between manufacturer and the Cross Connection Institute, The Cross Connection Institute shall prevail.
Location:	All fountains shall be located minimum 30 feet from sand areas. Drinking fountains are required near athletic court areas and restrooms.
Accessibility:	All fountains shall be handicapped accessible.
Preferred Model:	<ul style="list-style-type: none"> • Haws Model #3176

5. BARBECUES

General Guideline:	One individual barbecue is required per two picnic tables. A group-size barbecue can be shared by four picnic tables.
Stove & Pedestal:	<p>A. <u>Single Barbecues.</u> All single barbecues shall have:</p> <ul style="list-style-type: none"> ▪ Base, permanent/stationary or comparable made of the same material as the stove; ▪ Swivel stove, attached to the base, with a replaceable ash pan and fabricated of non-corrosive metal. <p>B. <u>Group Barbecues.</u></p> <ul style="list-style-type: none"> ▪ All group barbecues shall have: <ul style="list-style-type: none"> ▪ Permanent/stationary base; ▪ Fire box, fabricated from 7 gauge steel; ▪ Cooking grate, fabricated from ½ inch steel bars spaced 1 ⅛ inch OC with a cooking surface of 1,368 square inches; ▪ Steel utility shelf, 12 inches x 36 inches, side-mounted; ▪ Overall grill dimensions shall be 43 inches wide, 51 inches long, and 38 inches high; ▪ Installation shall follow all manufacturer’s specifications for pad size, footings, and anchoring.
Pads:	<p>When a concrete pad is used:</p> <ul style="list-style-type: none"> ▪ Permanent base shall be anchored per manufacturer’s specifications; ▪ A 14 inch square area of slab around the base shall be constructed to be removable for replacement of base, yet solid while in normal operation.
Accessibility:	All barbecues shall be handicapped accessible.
Preferred Models:	<ul style="list-style-type: none"> • <u>Single Barbecues:</u> Gametime model #60 • <u>Group Barbecues:</u> Iron Mountain Forge model #220

6. BICYCLE RACKS

<p>General Guidelines:</p>	<p>Bicycle racks should be located at entrances to major buildings. Other racks may be required for major facilities not in close proximity to buildings.</p>
<p>Bicycle Racks:</p>	<p>All bicycle racks shall be:</p> <ul style="list-style-type: none"> ▪ Galvanized; ▪ Surface mounted only; ▪ Anchored with ITT Ramset/red head SRM 38 stainless steel drop-in anchor with appropriate size stainless steel hex head bolts, lock washer and ³/₈ inch flat washer.
<p>Preferred Models:</p>	<ul style="list-style-type: none"> • Cyclops Wave, surface mounted only • L.A. Steelcraft series galvanized bike rack Single sided: BAX 5 or BAX 8 Double sided: BA 9 or BA 15 • Anchors: ITT Ramset/Redhead SRM-38 stainless steel drop-in anchors

7. BASEBALL / SOFTBALL EQUIPMENT

Bases:	Hollywood Major League model BB10302
Homeplate:	Hollywood Model SRHP10350.
Pitching rubber:	Hollywood Four-way Pitching Rubber model BBPB10380.
Pole Pads:	Baseball pole pads are required and shall be: <ul style="list-style-type: none"> ▪ 6 feet high; ▪ With grommet strips on both ends and 2 sets of 4 interior belt loops 1 foot from top and bottom; ▪ Secured by use of stainless steel bandit through interior belt loops, hog rings and/or laces through grommets; ▪ Yellow in color.
Windscreen Fabric:	Baseball Dugout windscreen fabric shall be: <ul style="list-style-type: none"> ▪ green polypropylene mesh; ▪ 6.2 oz./sq. yard; ▪ with 89 percent shade factor; ▪ with center tab/tape strip.
Bat Rack	Welded galvanized steel, 20 inches tall x 6 inches deep; footing mount; single row; holds 10 bats.
Bleacher & Dugout or Players Benches:	When other than concrete seating is provided: <ul style="list-style-type: none"> ▪ Seating shall consist of anodized aluminum planks and end caps; ▪ Frames, posts, brackets, and all other parts shall be heavy-duty type, galvanized metal.
Batting Cages:	<ul style="list-style-type: none"> ▪ Chain link fencing shall be covered on the inside with #96 treated nylon netting, 1 ¾ square inch, latex treated, with poly rope border, or approved equals. ▪ The batting cages shall be equipped with a bury-in home plate and a “jugs” type pitching machine.
Outfield Fencing:	<ul style="list-style-type: none"> ▪ Temporary fencing to be TENAX ALPI SAFETY FENCING
Infield Equipment:	<ul style="list-style-type: none"> ▪ Infield Spot Cover: 14 oz. Vinyl material with welded seams. Edges to be hemmed and grommetted, with anchor stakes included. ▪ Pitchers Mound Cover: 20 foot circular. Recommended Tomark #11174. ▪ Homeplate Cover: Recommended Tomark #11164.

8. MISCELLANEOUS PARK AND RECREATIONAL EQUIPMENT

Basketball Goals:	<p>Basketball goals shall conform to the following requirements:</p> <ul style="list-style-type: none"> ▪ Posts shall be 5 feet and $\frac{9}{16}$ inches high, straight, capped, with heavy duty adjustable bracing; ▪ Backboard shall be #02, $\frac{1}{4}$ inch galvanized steel plate fan backboard; ▪ Nets shall be nylon, set to regulation height; ▪ Goal shall have nylon net hooks; ▪ Pole pads shall be: <ul style="list-style-type: none"> ▪ 7 feet high; ▪ With grommet strips at each end and 2 sets of four 4 interior belt loops spaced 1 foot from top and 1 foot from bottom; ▪ Secured with stainless steel Bandit through interior belt loops, hog rings and/or laces through grommet; ▪ Red in color. <p>Preferred Model: L.A. Steelcraft #1254 or #1256 (depending on offset need) with #SD-10 goal with nylon net hooks.</p>
Display Cabinets:	<p>Display cabinets shall consist of an indoor/outdoor letter board, 4 feet by 3 feet, with locking plexiglass doors and cork back. Unit shall be anodized aluminum. Unit shall have a header board with the name of the facility in upper case letters.</p> <p>Preferred Model: L.A. Steelcraft #1254 or #1256 (depending on offset need) with #SD-10 goal with nylon net hooks.</p>
Par/Vita Course:	<ul style="list-style-type: none"> ▪ Acceptable only if pre-manufactured, general, or catalog design and if replacement signs and equipment will be accessible for a minimum of 12 years. ▪ All material shall be metal/steel and be galvanized and/or powder coated.
Racquet Ball Courts – Door:	<p>Door to the racquet ball court shall be:</p> <ul style="list-style-type: none"> ▪ Metal; ▪ With expanded metal window flush with interior; ▪ With 4 SOSS Hinges; ▪ Ring pool shall be flush and magnetic type; ▪ Door jam shall be filled with grout; ▪ Door closers shall be mounted on exterior and be heavy duty type that close the door flush; ▪ All interior items of door must be flush with the interior wall.
Roller Hockey Goals:	<p>The City does not have an established standard for this item. Please submit proposed model to Community Services staff for review.</p>
Soccer Goals:	<ul style="list-style-type: none"> ▪ Storage Area for soccer goals is required, and shall consist of a concrete pad and I-bolts to lock the equipment in place. <p>Preferred Model: Pro Premier Collegiate soccer goal Model 2B4 with optional</p>

	back bottom bar Model 10B501 and replacement Kwik net clips Model 10B801.
Tennis Equipment:	<p>Tennis equipment shall conform to the following requirements:</p> <ul style="list-style-type: none"> ▪ Poles shall be 4½ inch OD galvanized poles with reel, over the top pulley, and 2 fixed and 1 movable eye. Posts, reels, pulley, and eyes shall be galvanized; ▪ Ratchet shall have a hole drilled in it for lock; ▪ Windscreen shall be open mesh polypropylene, black, seamless, 9 feet high, with center tabs; ▪ All chain link shall be gauge and have a 1 5/8 inch galvanized bottom rail; <p>Preferred Models: Poles: L.A. Steelcraft model #TP42ZT Tennis nets: Edwards Sports Supreme model #2002 Tie down strap: Edwards Center Strap #2041</p>
Volleyball Goals:	<p>C. Parks that are supervised or where ratchet and pulley is desired:</p> <ul style="list-style-type: none"> ▪ Posts shall be 4½ inch OD, capped, all game posts, hot dip galvanized with wheel and ratchet and side pulley; ▪ Wheel and ratchet shall be for 4½ inch posts, hot dip galvanized with hole drilled in ratchet for lock; ▪ Side pulley shall be for 4½ inch OD posts, hot dip galvanized; ▪ Net shall be 32 feet with cable on top and rope on bottom. ▪ Pole spacing shall accommodate a 32 feet net (approximately 36 to 36.5 feet apart); <p>Preferred Model: Goals: L.A. Steelcraft #AGP-4 Wheel and Ratchet: L.A. Steelcraft #NRF-4 Side Pulley: L.A. Steelcraft #NPA-4 Net: West Coast #VNCR-32</p> <p>D. Parks that are not supervised or where ratchet and pulley is not desired:</p> <ul style="list-style-type: none"> ▪ Posts shall be 4½ inch OD galvanized with 3 fixed eyes and rope clamps; ▪ Pole length should be sized to accommodate surfacing material; <p>Preferred Model: Posts: L.A. Steelcraft #VPP-4PEL Net: West Cost #VNRR-32.</p>

B. PUBLIC BUILDINGS SPECIFICATIONS

1. RESTROOM FIXTURES

Hand Dryer:	Bobrick – Model # B-7007 (110 Volt single phase)
Seat Cover Dispenser:	Bobrick – Model # B-221
Liquid Soap Dispenser:	Bobrick – Model # B-4112
Toilet Tissue Holder:	EXM-200D (2 roll) or EXM-300D (3 roll) manufactured by “Upbeat Inc.” or approved equal.
Water Closet:	American Standard – Model # 2258.125, Afwall EL 1.6 back spud with Sloan Optima flushometer # 152-1.6 ES-S with Olsonite # 95 open front seatless cover (to meet ADA requirements). Color: white.
Urinal:	American Standard --Model # 6605.027, Lynbrook 1.0 GPF back spud with Sloan Optima flushometer # 190-1 ES-S (to meet ADA requirements). Color: white.
Lavatory:	American Standard – Model # 0476.028, 4 inch centers to accommodate faucets and include grid stainers.
Faucets:	Chicago faucet – Model # 802A-665 (for use with hot and cold water supply) or 408A-665-CW (for use with cold water supply only), Chicago faucet – Model # 1013 angle stop with stainless steel braided sully line(s).
Toilet Compartments:	Toilet compartments, doors, urinal/sight screens, etc. shall be floor mounted and overhead braced similar and equal to compartments manufactured by Santana Products Inc., or an approved equal.
Water Closet/Toilets:	American Standards – Model # 2258.125, Afwall EL 1.6 back spud with Sloan Optima Flushometer # 152 – 1.6 ES-S with Olsonite #95 open front seatless cover (to meet ADA requirements). Color: White

2. LOCK HARDWARE

1. All locks will be keyed into a uniform masterkeyed locking system as established by Best Access Systems. All locks shall be as manufactured or supplied by Best Access Systems. All cylinders must accept the Best 7-pin interchangeable core. **No substitutes will be accepted.** When lock types or functions are required which Best does not manufacture, these locks must still conform to the Best masterkey system for the City of Irvine.

All locks for whatever purpose or whatever type of equipment such as electrical, mechanical, cabinetry, desks, drawers, file cabinets, food storage areas, closets, general storage areas, plenum chambers, trophy cabinets, gates, fire equipment, sewer and connecting area, heating and air conditioning equipment, and other locked items or areas not specifically mentioned, shall be included.

Should space for the lock be too small for the interchangeable core, the ¾ inch (19mm) 5E cylinder may be used. Though not key removable, it must be keyed into the masterkeyed locking system as prepared by Best Access Systems for the City of Irvine.

Any equipment received on the job with locks not corresponding to this specification will be rejected or relocked to meet this specification at the expense of the equipment manufacturer.

2. The architectural hardware consultants preparing the hardware specifications will use Best Access Systems nomenclature and should consult with the Best representative in this area (Best Access System, 25007 Anza Drive, Santa Clarita, CA 91355) or with Best headquarters at P.O. Box 50444, Indianapolis, Indiana, phone (317) 849-2250.
3. Construction cores will be furnished in accordance with Best's construction core policy to assure that during the period of construction, the contractor will be able to lock the building while avoiding the risk of masterkeyed cores and keys being issued to unauthorized personnel.
4. All locking hardware shall have finish #626.

C. PUBLICLY MAINTAINED MONUMENT SIGNS

Concrete Monument Sign Specifications

- Concrete shall be 6-Sack Type V (5) for ground contact installations.
- Where possible, all signs shall be double faced with ¾ inch deep recessed copy.
- Lettering shall be a minimum of 6 inches high for facility name, and a minimum of 4 inches high for facility address and City name.
- Information shall be listed in the following order: (1) facility name; (2) facility address; and (3) City of Irvine.
- Base, at grade level, shall be 12 inches high x 20 inches wide at bottom, tapered to 10 inches wide at top and run the full length of the sign.
- Where possible signs shall be made in one of three “standard” sizes:
 - 3 feet H x 7 feet L x 10 inches W
 - 3 feet H x 9 feet L x 10 inches W
 - 4 feet H x 12 feet L x 12 inches W
- Signs shall have a sandblasted finish with reveal between base and sign face. Area around sign shall have mow strip in accordance with City Standard Plan No. 600. The mow strip shall butt against both ends of the sign base, extend 36 inches out from the bottom of the base to inside of the mow strip face sides and run the full length of the sign. The 36 inch areas on both face sides shall be filled with pea gravel 2 inches deep from ¼ inch below top of mow strip. The 36 inch area on both face sides shall contain sign lights per City electrician’s standards.

For Public Parks and Facilities

Please note that under no circumstances shall the maximum sign area exceed 60 square feet, or 6 feet in height. The ground sign may be located on a berm of 3 feet for a total sign/berm height of 9 feet (Please see Zoning Code Section 7-3-3, Facility Identification sign for additional information).