

# BASE PLATES

## PURPOSE

Ball field base equipment shall be provided at diamond fields as needed for play.

## GENERAL INFORMATION

Base plate dimensions shall comply with National Federation of State High Schools or other governing authority.

Base plates shall be anchored in ground.

Related Standards: Infield Mix, Field Diagram | Baseball, Field Diagram | Softball.

## MATERIALS AND FINISH

Plate color shall be white with black trim.

Double first bases shall include a white base and an orange outside base.

Plates shall be manufactured from durable materials such as rubber, reinforced steel and polyurethane.

Materials shall be rated for exterior use and all-weather play.

## FEATURES

Home plate shall have a rubber waffle style interior. Plate shall be waterproof with a non-skid exterior surface.

Pitching rubber shall be four-way, adult size with inner support tubing.

Base plates shall be progressive release.

Base anchors and plugs shall be easily replaceable.

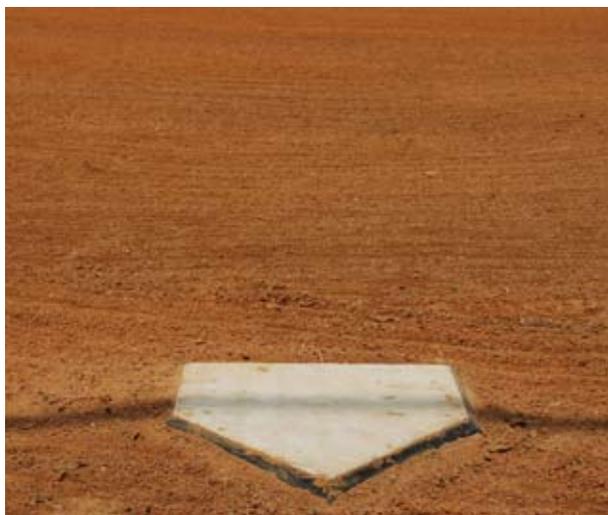
## INSTALLATION

Locate plates, pitching rubbers and bases in compliance with field layouts.

## LIFE CYCLE EXPECTATIONS

A 1 year minimum warranty is required.

Base plates are anticipated to require replacement after 2 years of normal and ordinary use, and annually for heavily programmed fields.



Base plate



Pitching rubber

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# BASKETBALL GOAL SYSTEMS

## PURPOSE

Competition style, heavy duty backstops shall be provided at outdoor basketball facilities.

## GENERAL INFORMATION

Post systems shall comply with National Collegiate Athletic Association regulations or other governing authority.

Related Standards: Court Diagram|Basketball, Court Surfacing.

## MATERIALS AND FINISH

Upright posts and supports shall be 6 inches minimum square structural steel tubing with ¼ inch thick walls.

Steel components shall have a double powder coat finish. Color shall be black.

Square backboard shall be perforated steel and include acrylic official perimeter and target area markings.

Goals shall be a double ⅝ inch diameter solid steel rim, with a continuous net attachment system.

Nets shall be heavy duty, weather resistant nylon fiber. Color shall be white.

## FEATURES

Backstop shall provide an extension inside the baseline. The backboard shall be 4 feet inside the baseline and the rim shall be 10 feet above the playing surface.

Post and backboard padding shall be installed when upright posts are located on or within the lined playing surface.

## INSTALLATION

Install posts consistent with manufacturer's recommendations. Position backstop consistent with NCAA standards.

Post foundation shall be flush to adjacent grade. Top of footing shall be sloped to shed water.

Wind loading design shall comply with American Society of Civil Engineers (ASCE) 7-98.

## LIFE CYCLE EXPECTATIONS

A 10 year minimum warranty is required.

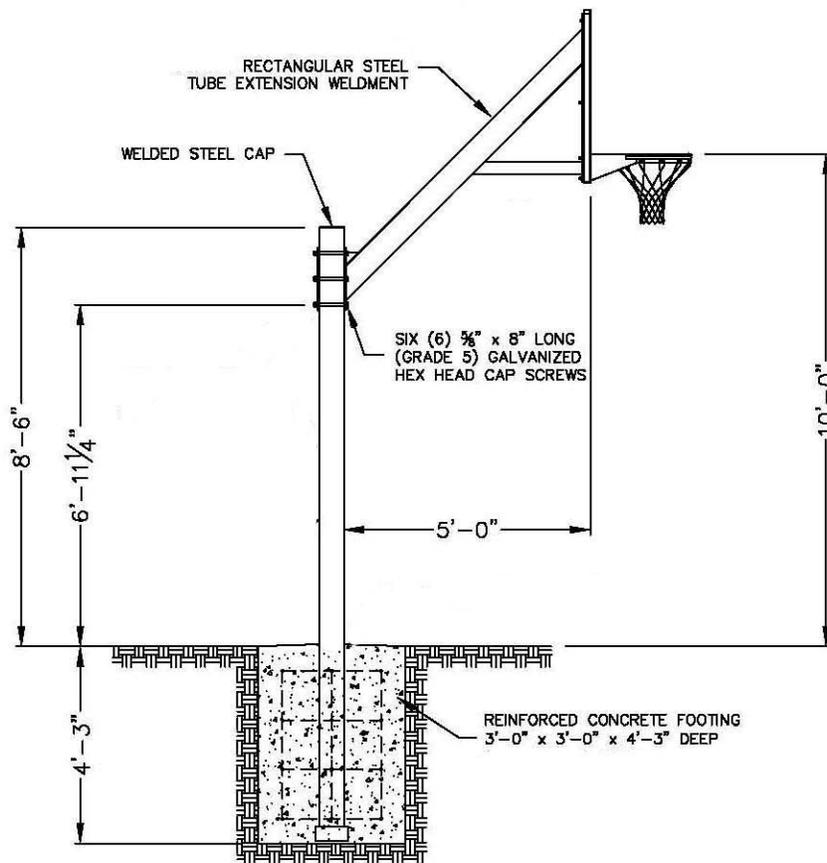
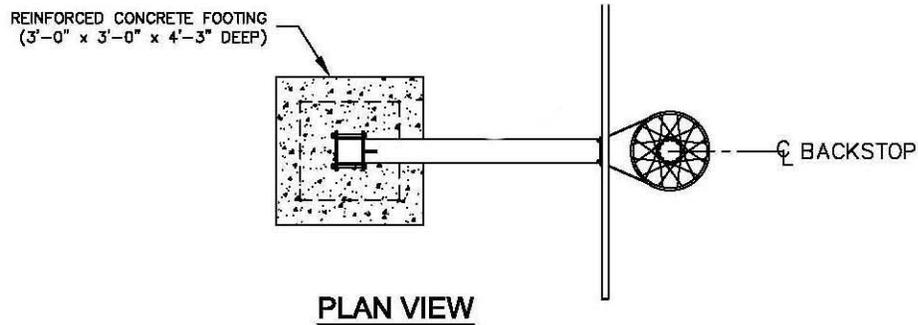
Basketball Goal Systems are anticipated to require replacement after 10 years of normal and ordinary use.

Nets are anticipated to require annual replacement with normal and ordinary use.



Basketball goal

# BASKETBALL GOAL SYSTEMS



Basketball goal (1)

Not to scale

## IMAGE FOOTNOTES

(1) <http://www.porterathletic.com/Product.aspx?ID=72>

## PURPOSE

Foul poles shall be utilized to identify play/foul territory on diamond ball fields.

## GENERAL INFORMATION

Foul poles shall comply with National Collegiate Athletic Association standards, Little League International regulations, or other governing authority.

Poles greater than 15 feet vertical dimension from finished grade require a Special Use Permit.

Related Standards: Track/Warning Track Surfacing, Field Diagram | Baseball, Field Diagram | Softball, Signs, Fence | Chain Link.

## MATERIALS AND FINISH

Poles shall be 3 ½ inches minimum to 6 inches maximum outside diameter, galvanized steel pipe with powder coat finish.

Color shall be yellow, PMS 113 or similar.

Foul Pole height shall be determined by ball field needs. Standard height is 15 feet from adjacent finish grade.

Wing panels shall be 18 inch horizontal width and 15 feet vertical height. Panels shall be 11 gauge expanded and flattened ¾ inch steel fabric.

## FEATURES

Pole heights can be 12 feet, 15 feet, 30 feet and 40 feet from adjacent grade with changes to pole diameter and wing panels dimensions.

## INSTALLATION

Install separate posts in-ground when existing fence posts cannot be used.

Pole shall be aligned with foul line and in line with outfield fence. Pole shall be 6 inch diameter minimum and integral to outfield fence where possible.

Pole foundation shall be designed to accommodate IBC Wind loading requirements.

Top of pole foundation shall be flush to adjacent grade. Top of footing shall be sloped to shed water.

## LIFE CYCLE EXPECTATIONS

A 10 year minimum warranty is required.

Foul Poles are anticipated to require replacement after 30 years of normal and ordinary use.



Foul pole located external to outfield fence

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# GOALS FOR FIELD HOCKEY

## PURPOSE

Field hockey goals shall be provided for a variety of age groups including youth and adult.

## GENERAL INFORMATION

Goal construction shall comply with the National Federation of State High Schools, National Collegiate Athletic Association regulations, or other governing authority.

Goals shall be removable, stored on-site and secured in a protected area.

Related Standards: Synthetic Infill Turf Systems, Field Diagram | Field Hockey.

## MATERIALS AND FINISH

Goals shall be reinforced, unitized or welded for stability.

Integral nets shall be weather resistant, heavy duty nylon cord or webbing.

Goal crossbars and uprights shall be constructed from heavy wall aluminum tubing with smooth welds, joints and corners. Tubing shall be 2 inches by 1 inch minimum. Backstays and stabilizing bars shall be galvanized steel and 1 3/8 inch minimum outside diameter.

Open tube bottoms shall not be permitted.

Frames shall be white in color.

Nets and bottom boards shall be black in color.

## FEATURES

Goals shall be portable with wheel transport systems.

## INSTALLATION

Goals shall be installed with tie down stakes for natural turf fields.

Goals on synthetic infill turf systems shall be weighted with an anchoring system that does not puncture the turf surface.

## LIFE CYCLE EXPECTATIONS

A 1 year minimum warranty is required.

Goals are anticipated to require replacement after 8 years of normal and ordinary use.



Field hockey goal (1)

## IMAGE FOOTNOTES

(1) [http://www.sportsfieldspecialties.com/index.php?option=com\\_content&view=article&id=51&Itemid=143](http://www.sportsfieldspecialties.com/index.php?option=com_content&view=article&id=51&Itemid=143)

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# GOALS FOR LACROSSE

## PURPOSE

Lacrosse goals shall be provided for a variety of age groups including youth and adult.

## GENERAL INFORMATION

Goal construction shall comply with the National Federation of State High Schools, National Collegiate Athletic Association, or other governing authority.

Goals shall be removable, stored on-site and secured in a protected area.

Related Standards: Synthetic Infill Turf Systems, Field Diagram | Lacrosse Girls, Field Diagram | Lacrosse Boys.

## MATERIALS AND FINISH

Goals shall be one piece, reinforced, unitized or welded for stability.

Nets shall be 4mm, weather resistant, heavy duty nylon cord or webbing.

Goal frame shall be constructed from Schedule 40 steel tubing with smooth welds, joints and corners. Frames shall be 1.9 inches outside diameter. Goal dimensions shall be 6 feet vertical height by 6 feet horizontal width by 7 feet deep.

Back base bars shall be constructed from 4 inch wide,  $\frac{3}{8}$  inch thick flat steel bar with lacing bar.

Open tube bottoms shall not be permitted.

Nets shall be white in color.

Frames shall be orange in color.

## INSTALLATION

Goals shall be installed with tie down stakes for natural turf fields.

Goals on synthetic infill turf systems shall be weighted with an anchoring system that does not puncture the turf surface.

## LIFE CYCLE EXPECTATIONS

A 1 year minimum warranty is required.

Goals are anticipated to require replacement after 8 years of normal and ordinary use.



Lacrosse goal (1)

## IMAGE FOOTNOTES

(1) [http://www.sportsfieldspecialties.com/index.php?option=com\\_content&view=article&id=50&Itemid=144](http://www.sportsfieldspecialties.com/index.php?option=com_content&view=article&id=50&Itemid=144)

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# GOALS FOR SOCCER

## PURPOSE

Soccer goals shall be provided for a variety of age groups including youth and adult.

## GENERAL INFORMATION

Goal construction shall comply with the National Federation of State High Schools, National Collegiate Athletic Association regulations, or other governing authority.

Goal dimensions will vary according to play level, and shall comply with the National Federation of State High Schools, National Collegiate Athletic Association regulations, or other governing authority.

Goals shall be removable, stored on-site and secured in a protected area.

Related Standards: Synthetic Infill Turf System, Field Diagram | Soccer.

## MATERIALS AND FINISH

Goals shall be one piece, reinforced, unitized or welded for stability.

Nets shall be 4mm, hexagonal or square, weather resistant, heavy duty nylon cord or webbing.

Goals shall be constructed from heavy wall aluminum tubing with smooth welds, joints and corners. Goal frame tubing shall be 4 inch outside diameter.

Open tube bottoms shall not be permitted.

Net and frames shall be white in color.

## FEATURES

Goals shall be portable with wheel transport systems.

Adult goals shall be 8 feet vertical height and 24 feet wide. Goals shall be 5 feet deep at the top and 10 feet deep at the bottom.

Youth goals shall be 6 feet vertical height and 18 feet wide. Goals shall be 4 feet deep at the top and 6 feet deep at the bottom.

## INSTALLATION

Goals shall be installed with tie down stakes for natural turf fields.

Goals on synthetic infill turf systems shall be weighted with an anchoring system that does not puncture the turf surface.

## LIFE CYCLE EXPECTATIONS

A 5 year minimum warranty is required.

Goals are anticipated to require replacement after 8 years of normal and ordinary use.



Soccer goal

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# TENNIS NET SYSTEMS

## PURPOSE

Regulation tennis net systems shall be provided at outdoor tennis facilities.

## GENERAL INFORMATION

Regulation nets shall comply with United States Tennis Association standards or other governing authority.

Related Standards: Court Surfacing, Court Diagram | Tennis, Signs.

## MATERIALS AND FINISH

Net posts shall be 3 ½ inches minimum aluminum or galvanized steel with green powder coat finish with caps.

Net fabric shall be weather resistant No. 36 nylon. Nets shall have a galvanized top cable with a white headband. Protective net edging shall be provided at bottom and ends.

Center net straps shall be included.



Tennis net system

## FEATURES

Net tensioning reel shall be vandal resistant. Reel shall be heavy duty with lubrication impregnated parts and heat pinioned gears. Wheel handle shall be concealed or removable.

Center net anchors shall be provided.

Net posts shall be installed on top of piers as determined by soil conditions.

## INSTALLATION

Posts shall be installed in ground prior to final surface installation and court lining.

Post layout shall comply with USTA athletic standards.

Top of post foundation shall be flush with final surface. Top of footing shall be sloped to shed water. Concrete net post footers shall be 1 foot-6 inches diameter and 3 feet vertical depth minimum.

Center net anchors shall be set in 1 foot by 1 foot horizontal dimensions and 1 foot minimum vertical depth concrete footings.

## LIFE CYCLE EXPECTATIONS

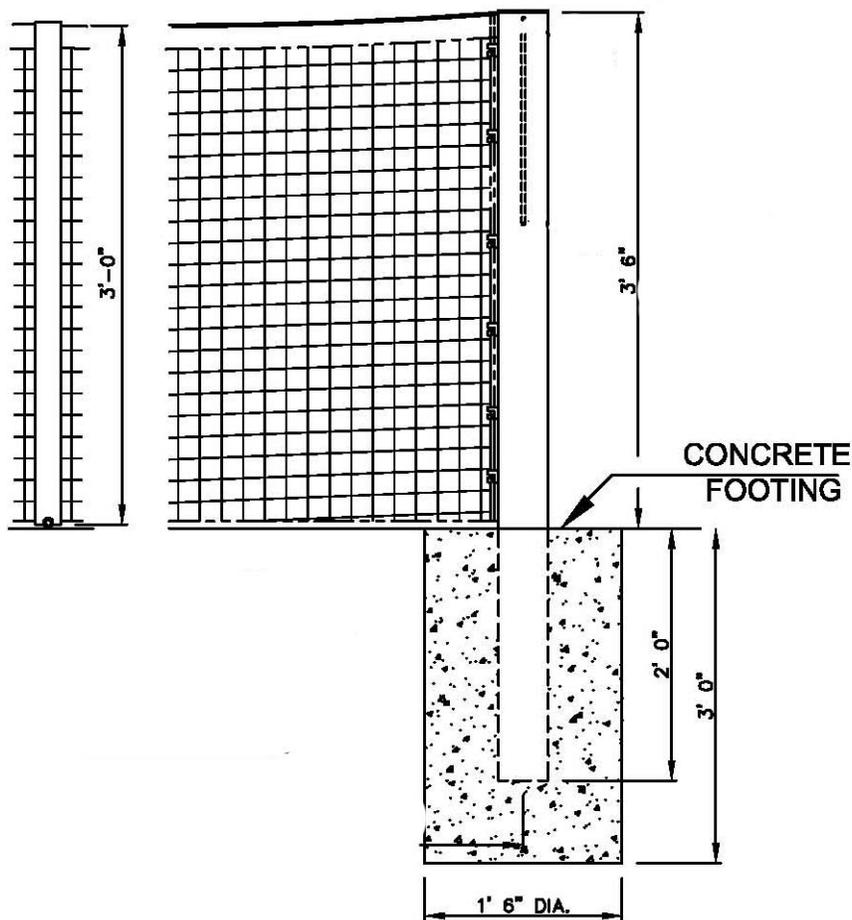
A 2 year minimum warranty is required for posts.

Nets are anticipated to require replacement annually with normal and ordinary use.

Posts are anticipated to require replacement after 10 years of normal and ordinary use.

# TENNIS NET SYSTEMS

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Tennis net end post (1)

Not to scale

## IMAGE FOOTNOTES

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(1) <http://www.porterathletic.com/pdf/cutsheets/R-865.PDF>

# VOLLEYBALL NET SYSTEMS

## PURPOSE

Volleyball net systems shall be provided at outdoor sand and grass volleyball facilities.

## GENERAL INFORMATION

Net systems shall comply with National Collegiate Athletic Association standards or other governing authority.

Related Standards: Sand Mixes | Volleyball, Court Diagram | Volleyball.

## MATERIALS AND FINISH

Post size shall be 14 gauge 4 inches minimum diameter aluminum with a powder coated green finish.

Netting shall be 4 inch square black mesh No. 24 nylon fabric, with vinyl coated steel top cables. Headband shall be 2 inch white vinyl-coated nylon.

## FEATURES

Systems shall have a heavy duty net tensioning reel with removable handle.

## INSTALLATION

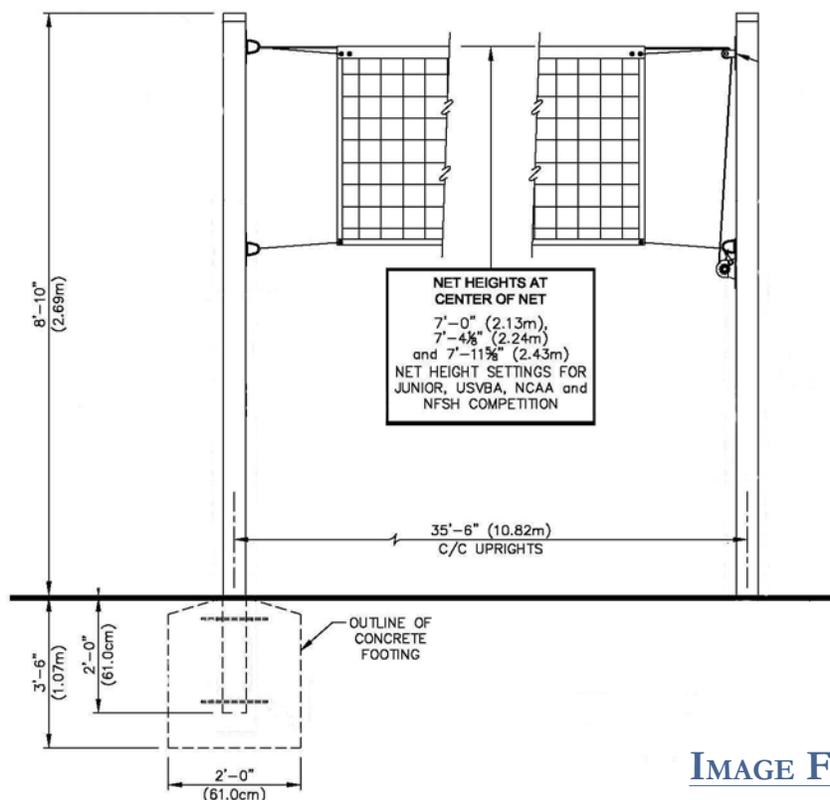
Posts shall be installed in ground with concrete footers. Footers shall be covered with 1 foot minimum vertical depth sand.

## LIFE CYCLE EXPECTATIONS

A 2 year warranty is required for posts.

Nets are anticipated to require replacement annually with normal and ordinary use.

Posts are anticipated to require replacement after 10 years of normal and ordinary use.



## IMAGE FOOTNOTES

(1) <http://www.porterathletic.com/Product.aspx?ID=98>

Volleyball net system (1)

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