

# Facility Specification Guide

This section contains facility specification diagrams for many sports. The diagrams also can be viewed online at [www.athleticbusiness.com](http://www.athleticbusiness.com).

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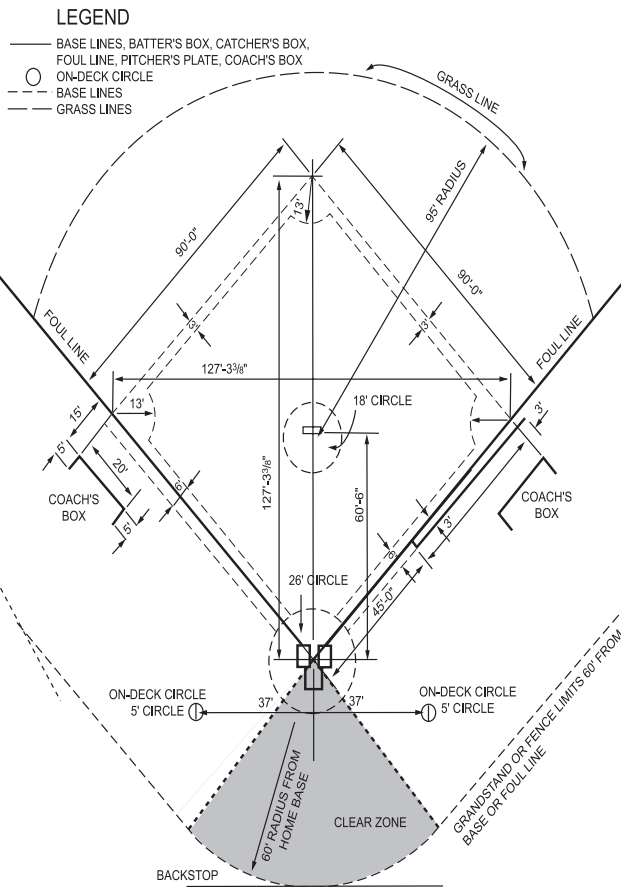
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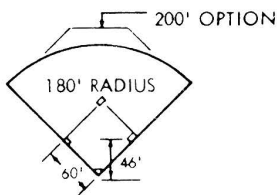
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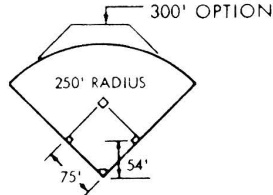


(Diagram courtesy of the NCAA.)

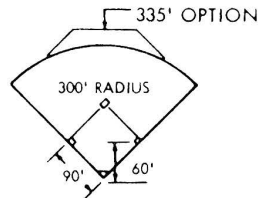
**YOUTH LEAGUE**



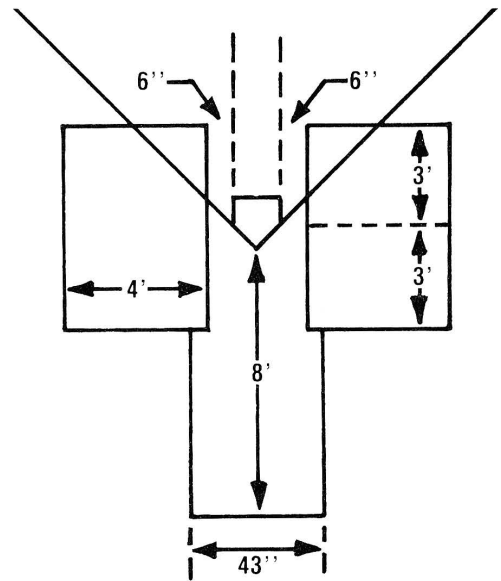
**SANDY KOUFAX (AABC) AND PONY LEAGUE**



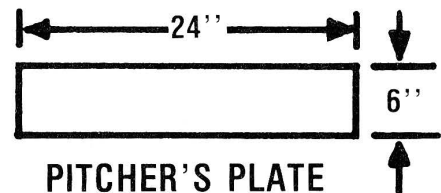
**BABE RUTH AND SENIOR LEAGUE**



ALSO:  
 MICKEY MANTLE  
 CONNIE MACK  
 JUNIOR LEGION  
 HIGH SCHOOL  
 310' RADIUS  
 360' OPTION



**HOME PLATE**



**PITCHER'S PLATE**

(Diagrams courtesy of USA Baseball.)

**FOR MORE INFORMATION CONTACT:**

**American Amateur  
 Baseball Congress**  
 (507) 327-3120  
 www.aabc.us

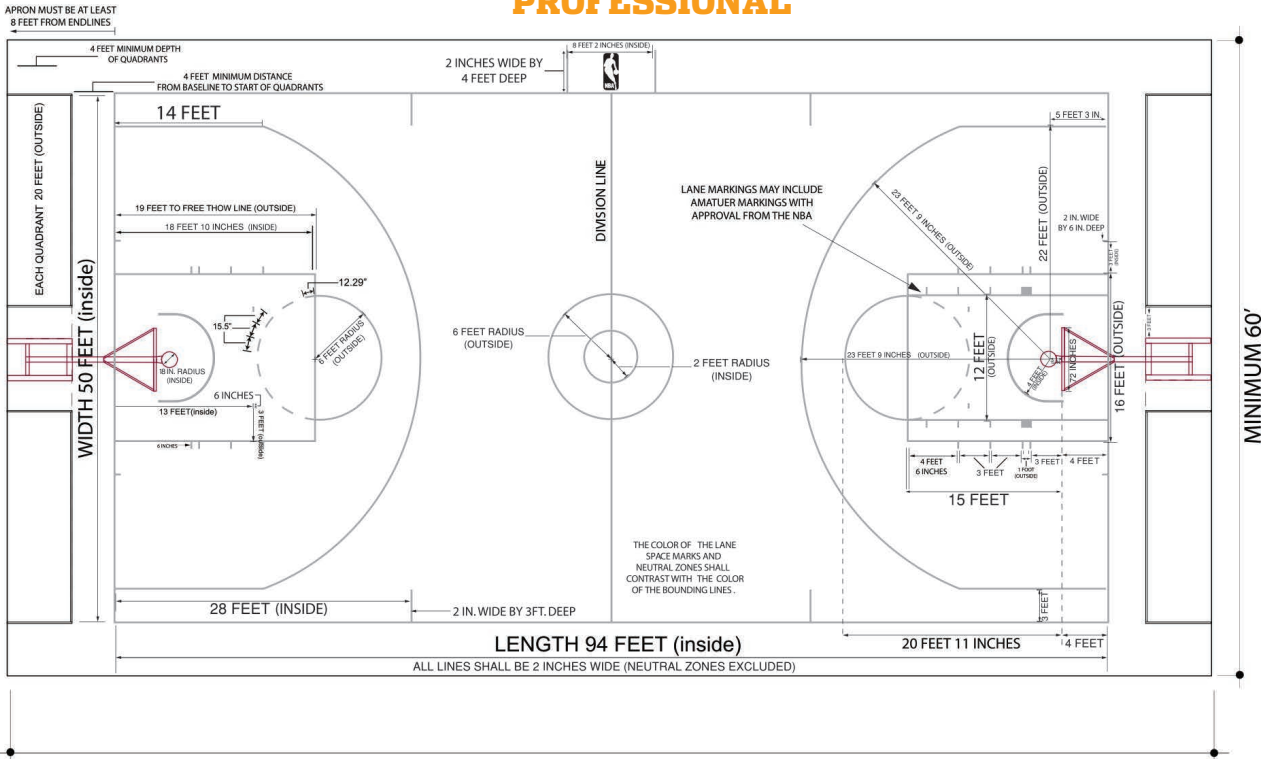
**National Collegiate  
 Athletic Association**  
 (317) 917-6222  
 www.ncaa.org

**National Federation of State High  
 School Associations**  
 (317) 972-6900  
 www.nfhs.org

**USA Baseball**  
 (919) 474-8721  
 www.usabaseball.com

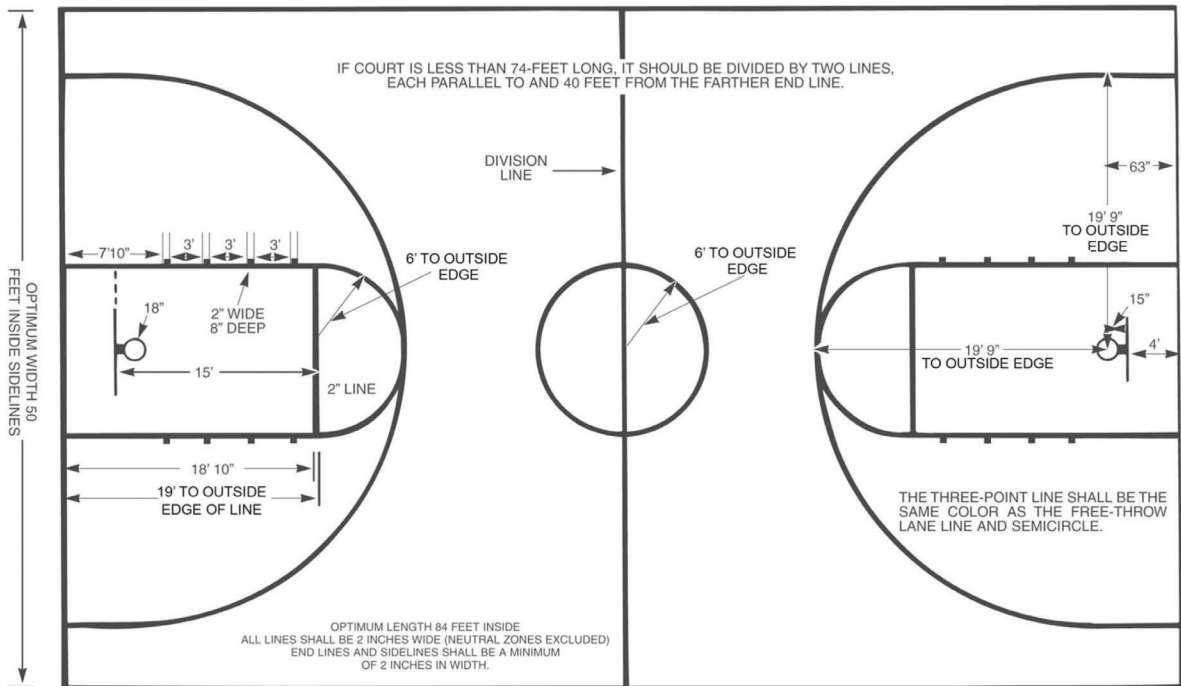
# BASKETBALL

## PROFESSIONAL



MINIMUM 110'  
(Diagram courtesy of the NBA.)

## HIGH SCHOOL



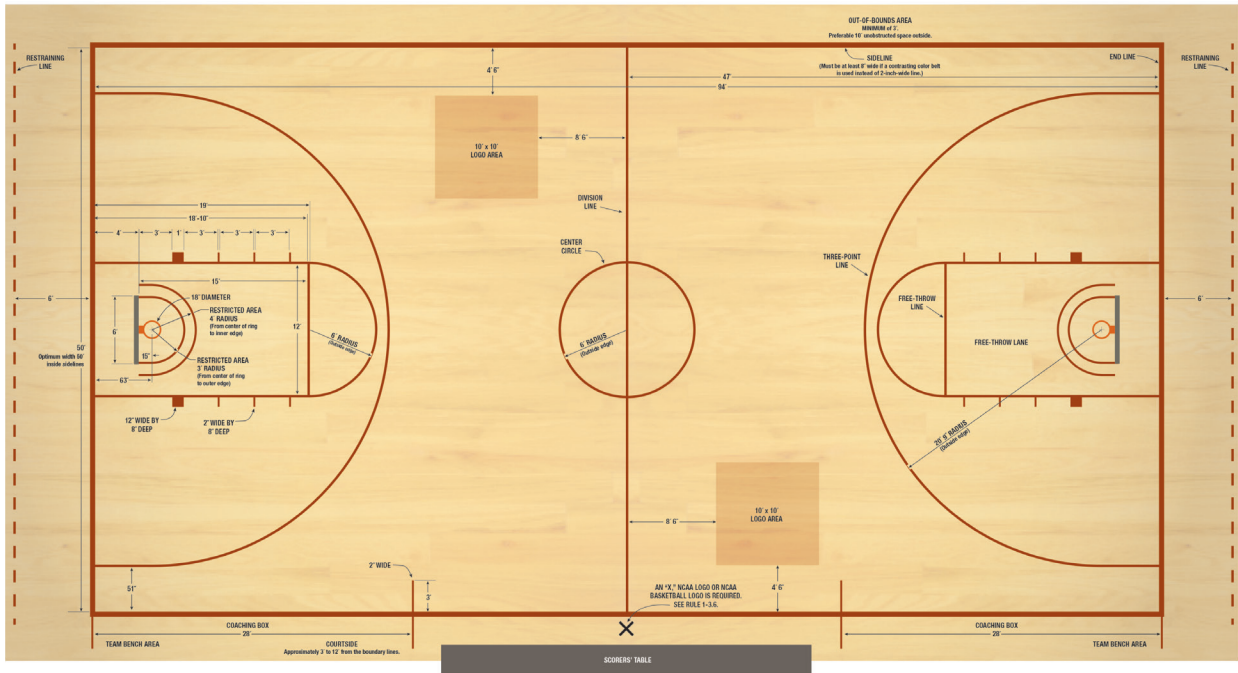
Left End Shows Rectangular Backboard 72-Inches Wide

MINIMUM OF 3 FEET  
Preferably 10 feet of unobstructed space outside. If impossible to provide 3 feet, a narrow broken 1-inch line should be marked inside the court parallel with and 3 feet inside the boundary.

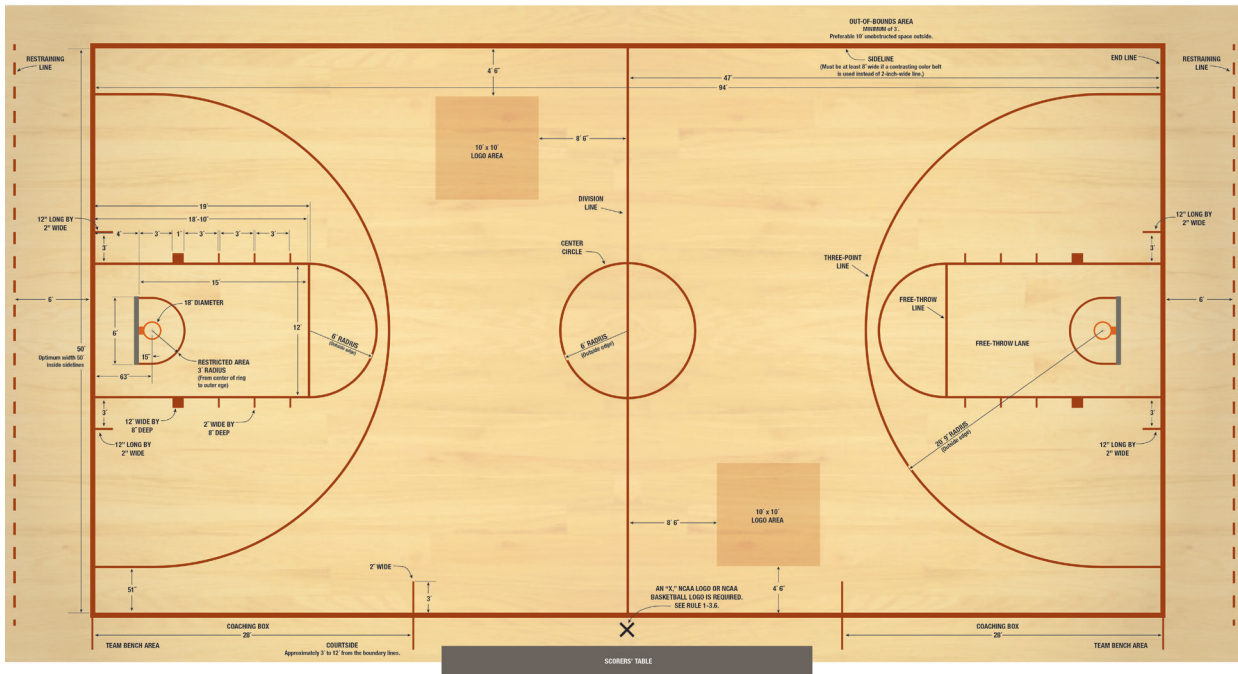
Right End Shows Fan Backboard 54-Inches Wide

(Diagram courtesy of the NFHS.)

### MEN'S COLLEGE



### WOMEN'S COLLEGE



(Diagrams courtesy of the NCAA.)

### FOR MORE INFORMATION CONTACT:

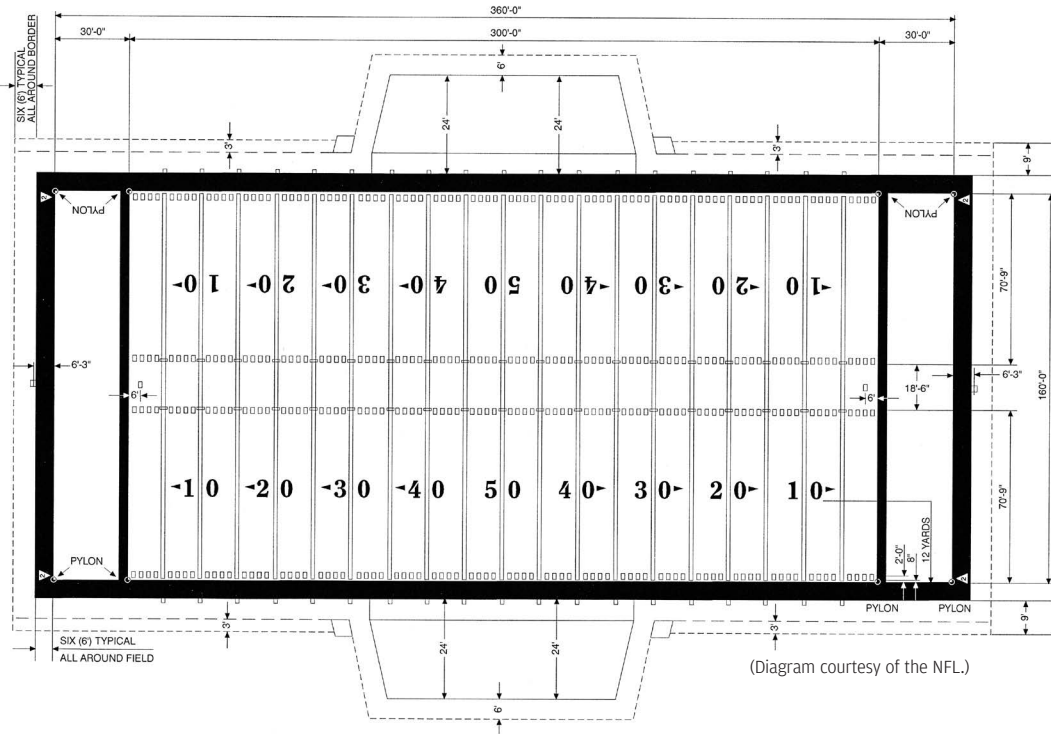
**National Basketball Association**  
(212) 407-8000  
www.nba.com

**National Collegiate Athletic Association**  
(317) 917-6222  
www.ncaa.org

**National Federation of State High School Associations**  
(317) 972-6900  
www.nfhs.org

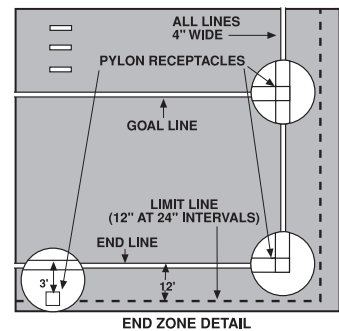
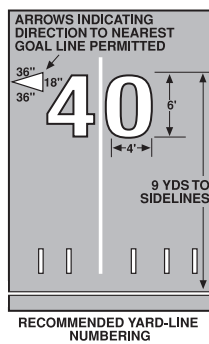
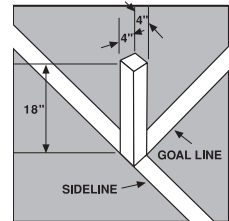
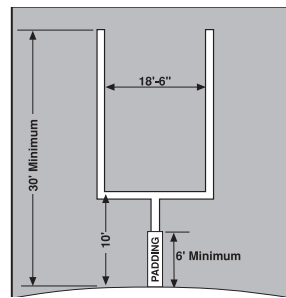
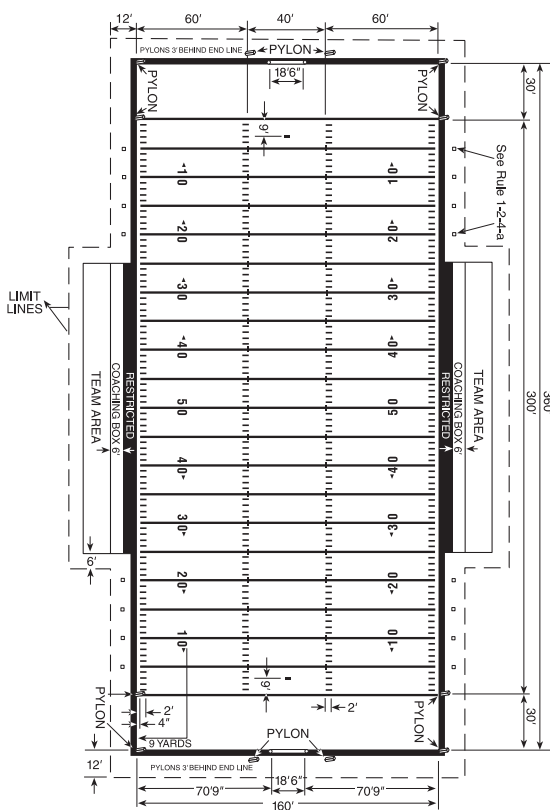
# FOOTBALL

## PROFESSIONAL



## COLLEGE

### DIAGRAM OF FIELD



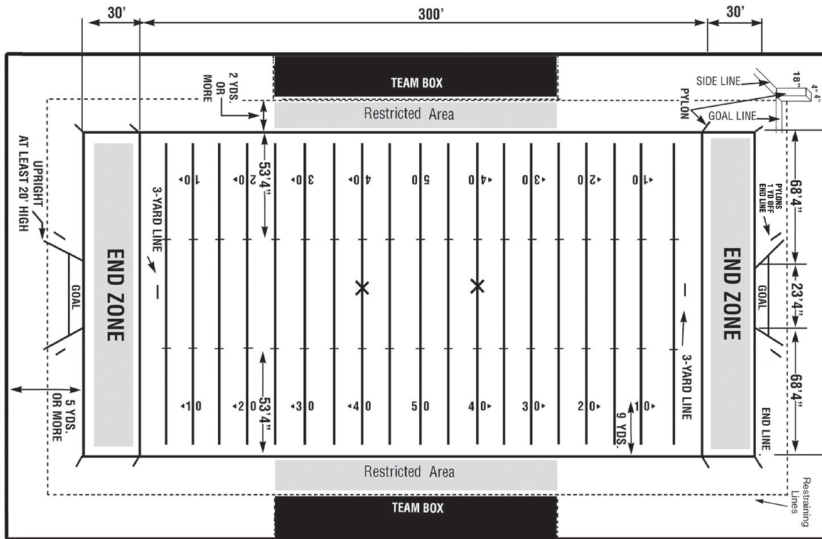
## FOR MORE INFORMATION CONTACT:

National Collegiate Athletic Association  
(317) 917-6222  
www.ncaa.org

National Football League  
(212) 450-2000  
www.nfl.com

(Diagrams courtesy of the NCAA.)

## HIGH SCHOOL (11-PLAYER FIELD)



**FOR MORE INFORMATION CONTACT:**

National Federation of State High School Associations

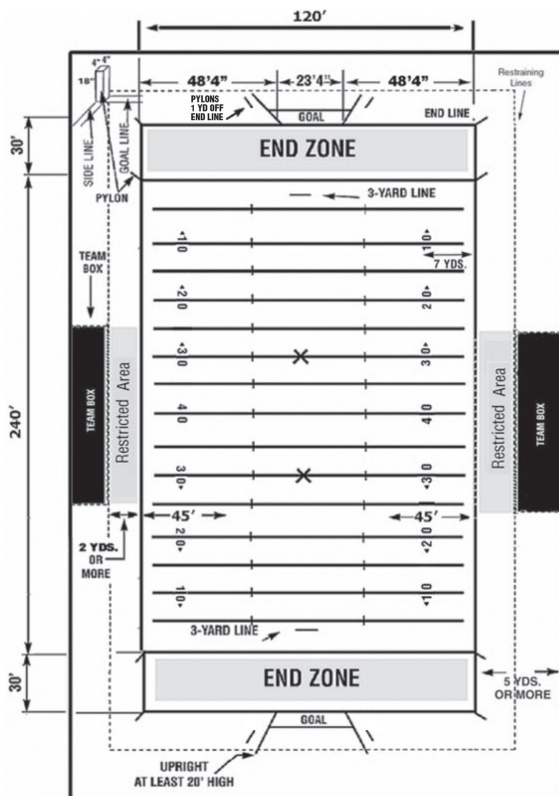
(317) 972-6900

[www.nfhs.org](http://www.nfhs.org)

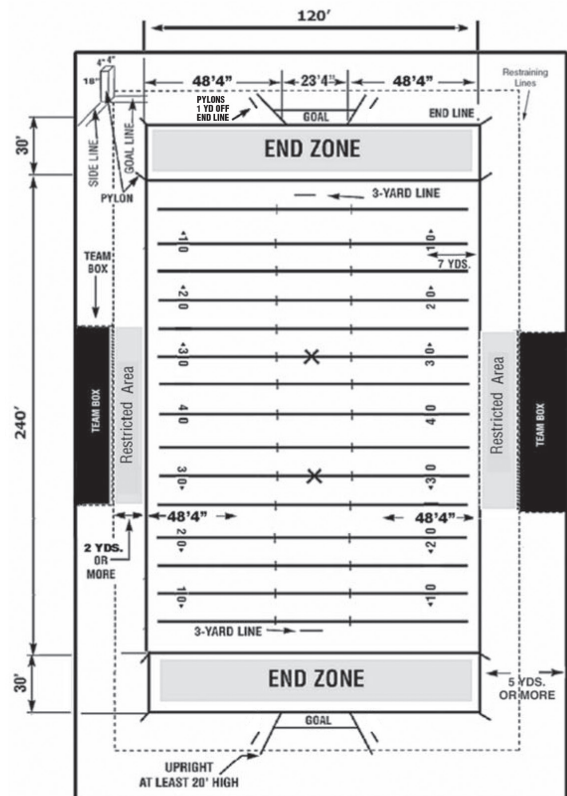
**Note:** Game administration may place on the field of play, 4 inches from each sideline, yard-line extensions that should be 24 inches in length and 4 inches in width; and/or, at each yard line, numbers that should be 6 feet in height and 4 feet in width. The tops of the numbers should be 9 yards from the sideline and may include directional arrows next to the yard-line numbers indicating the direction toward the nearest goal line.

**Note:** Game administration may place on the field of play, at the inbounds lines, yard-line extensions that should be 24 inches in length and 4 inches in width.

## (6- AND 8-PLAYER FIELD)



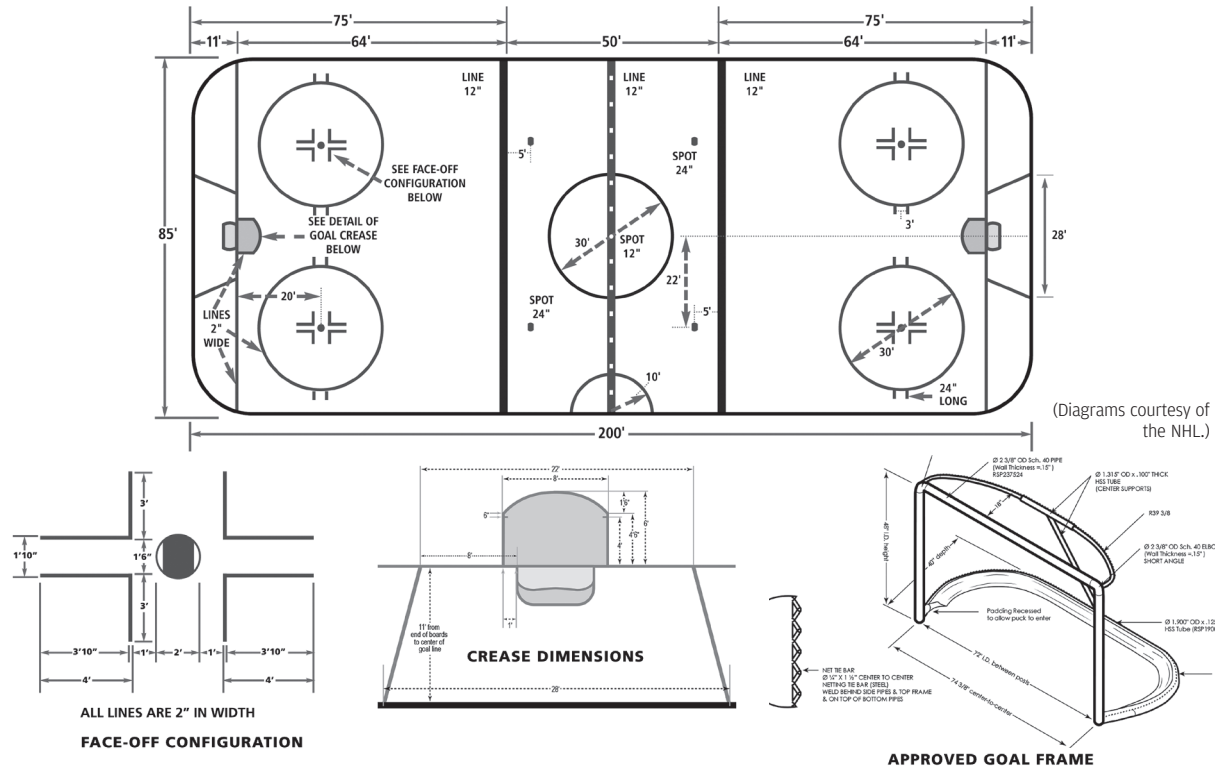
## (9-PLAYER FIELD)



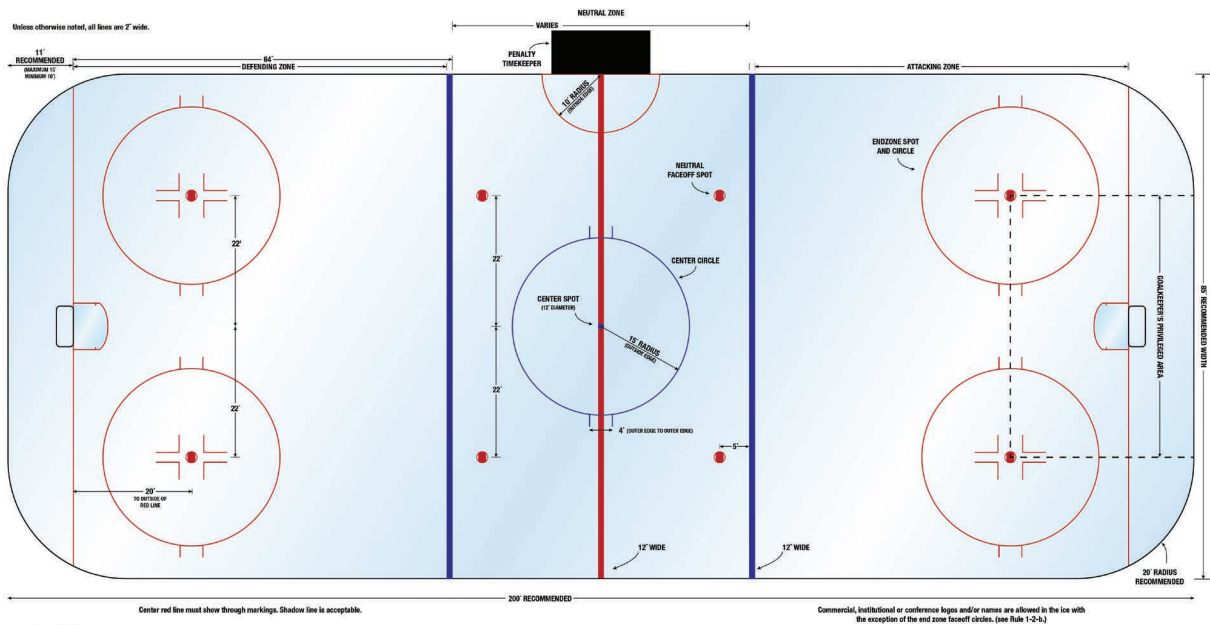
(Diagrams courtesy of the NFHS.)

# ICE HOCKEY

## PROFESSIONAL



## COLLEGE & HIGH SCHOOL



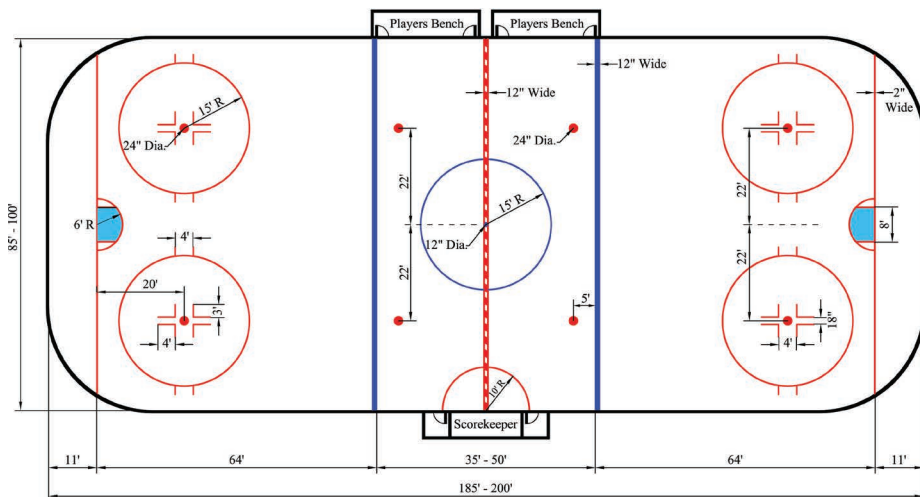
### FOR MORE INFORMATION CONTACT:

**National Collegiate Athletic Association**  
 (317) 917-6222  
[www.ncaa.org](http://www.ncaa.org)

**National Federation of State High School Associations**  
 (317) 972-6900  
[www.nfhs.org](http://www.nfhs.org)

**National Hockey League**  
 (212) 789-2000  
[www.nhl.com](http://www.nhl.com)

## ADULT AND YOUTH

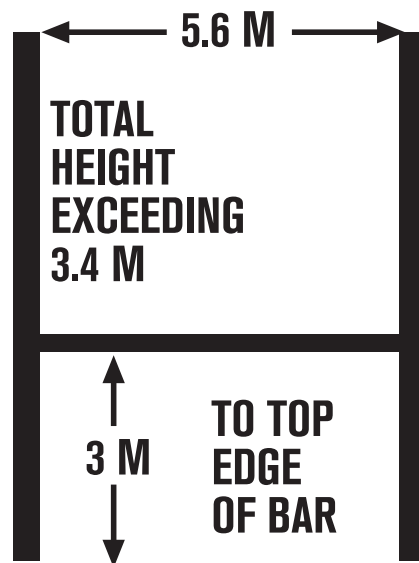
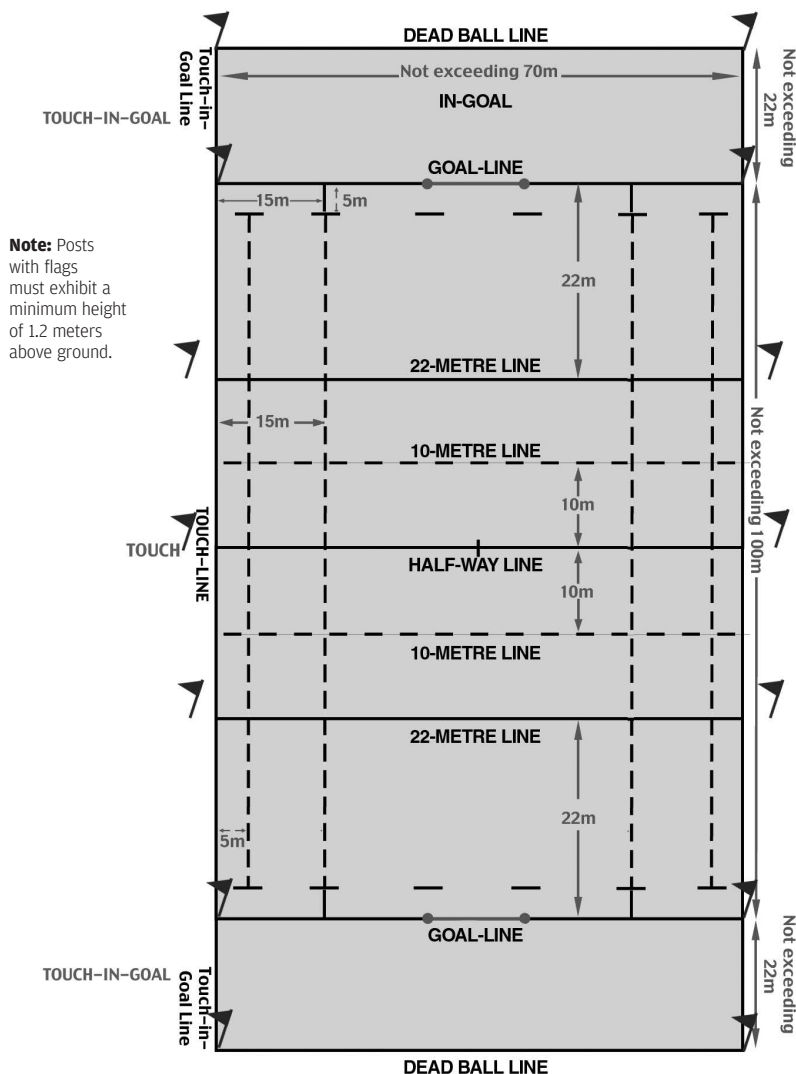


(Diagram courtesy of USA Hockey and Serving The American Rinks.)

**FOR MORE INFORMATION CONTACT:**

USA Hockey  
(719) 576-8724  
www.usahockey.com

## RUGBY



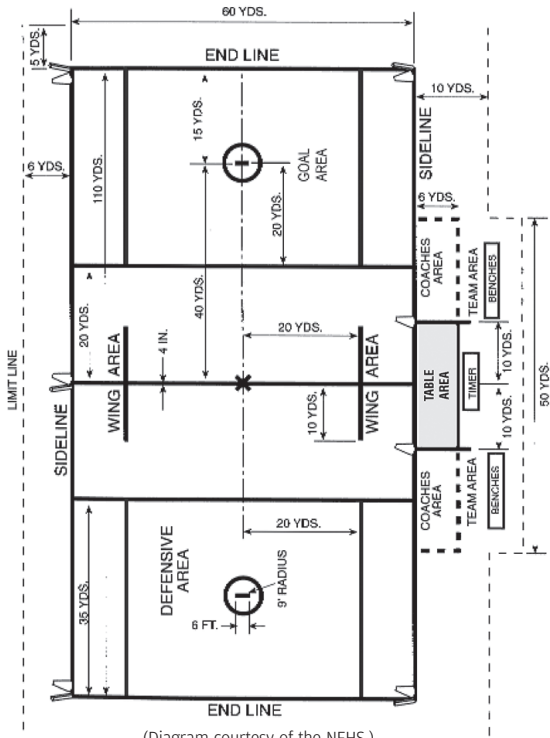
**FOR MORE INFORMATION CONTACT:**

USA Rugby  
(303) 539-0300  
www.usarugby.org



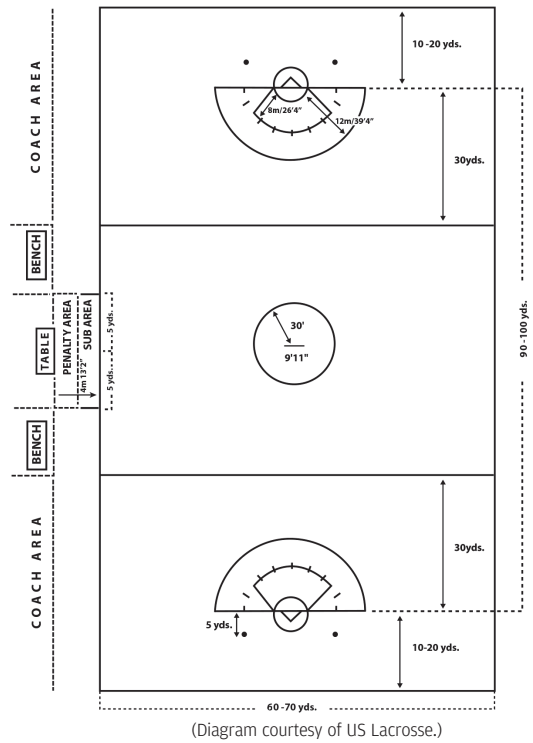
# LACROSSE

## MEN'S & BOYS'



**Note:** On the NCAA lacrosse field, the special substitution area replaces the table area. The bench and substitution/table areas may be located on either side of the field, provided they remain together.

## WOMEN'S & GIRLS'



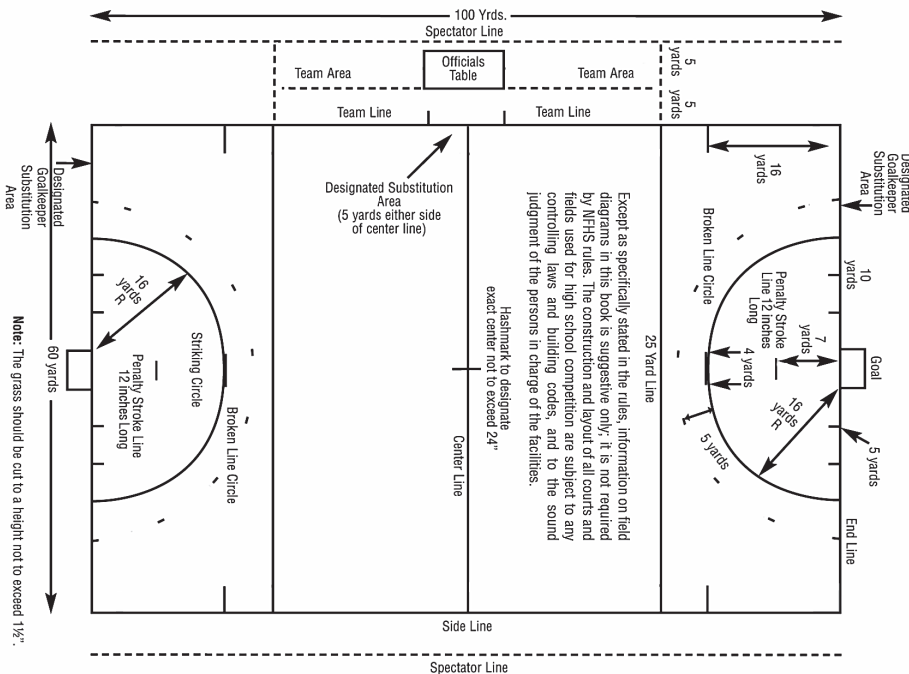
### FOR MORE INFORMATION CONTACT:

**National Collegiate Athletic Association**  
 (317) 917-6222  
[www.ncaa.org](http://www.ncaa.org)

**National Federation of State High School Associations**  
 (317) 972-6900  
[www.nfhs.org](http://www.nfhs.org)

**US Lacrosse**  
 (410) 235-6882  
[www.uslacrosse.org](http://www.uslacrosse.org)

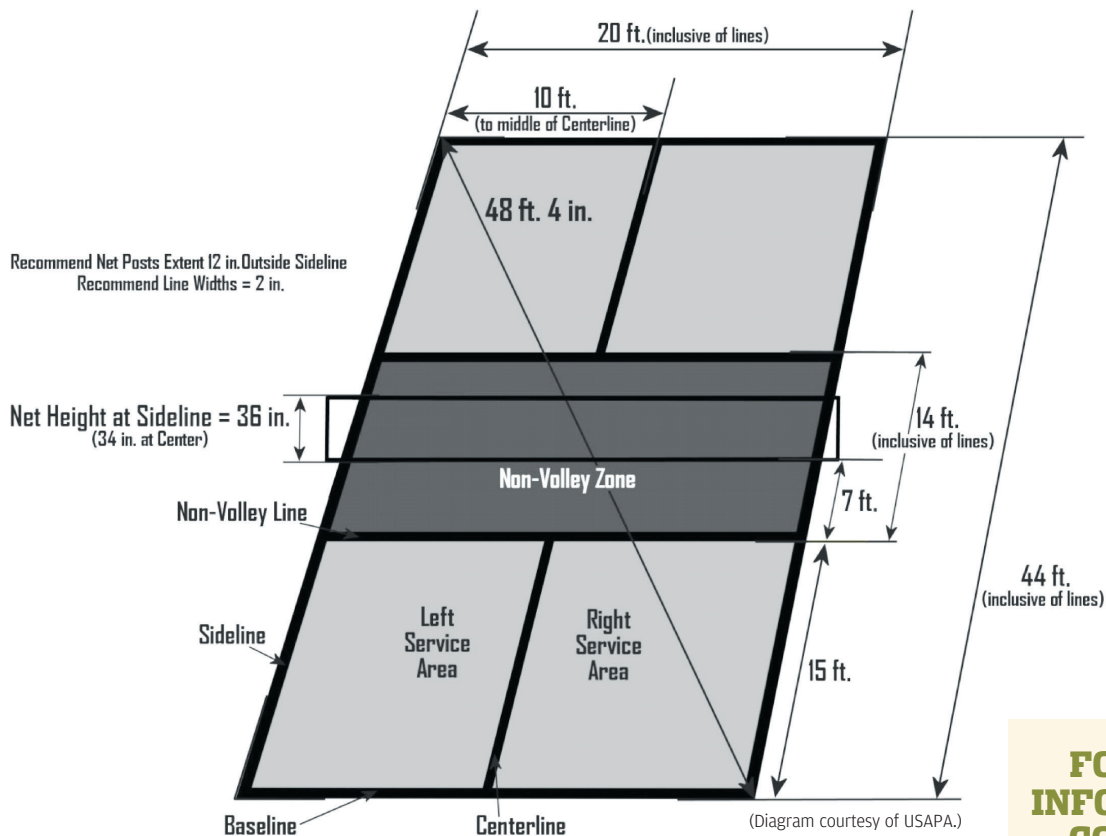
# FIELD HOCKEY



### FOR MORE INFORMATION CONTACT:

**National Federation of State High School Associations**  
 (317) 972-6900  
[www.nfhs.org](http://www.nfhs.org)

# PICKLEBALL



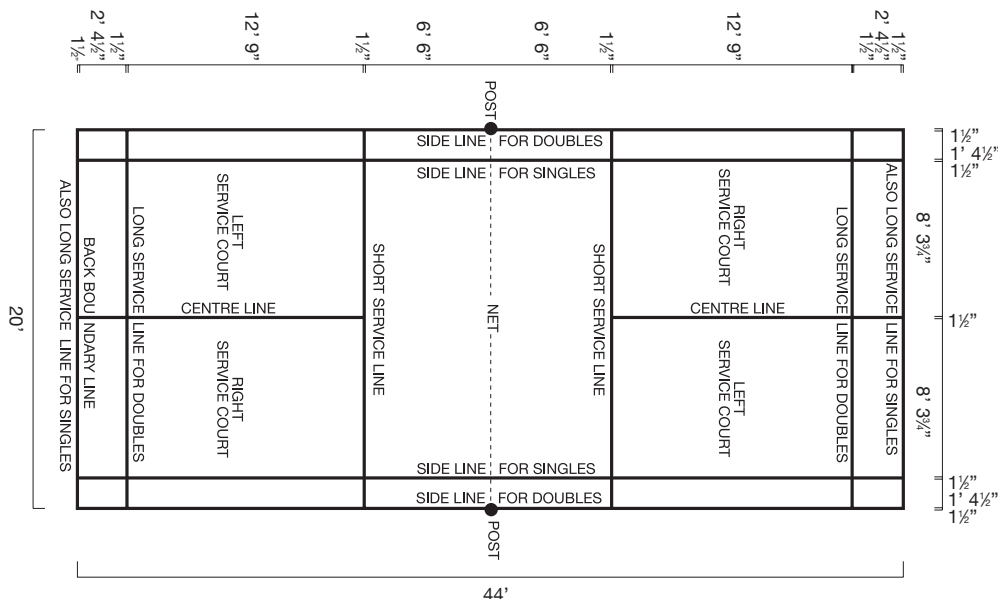
Recommend Net Posts Extend 12 in. Outside Sideline  
Recommend Line Widths = 2 in.

- Line Tolerances:
- Net line to outside of NVZ line: 7' +/- 1/8"
  - Net line to outside of baseline: 22' +/- 1/4"
  - Outside sideline to outside sideline: 20' +/- 1/4"
  - Outside sideline to centerline: 10' +/- 1/8"
  - Diagonal dimension to outside of lines: 48' 4" +/- 3/4"

## FOR MORE INFORMATION CONTACT:

**USA Pickleball Association**  
(602) 989-6357  
usapa.org

# BADMINTON

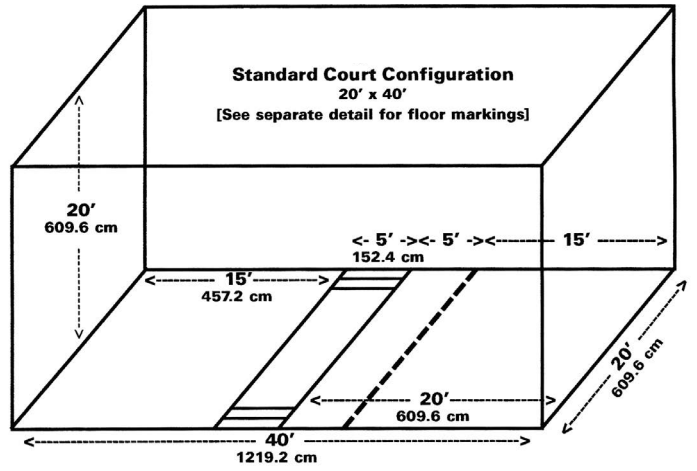
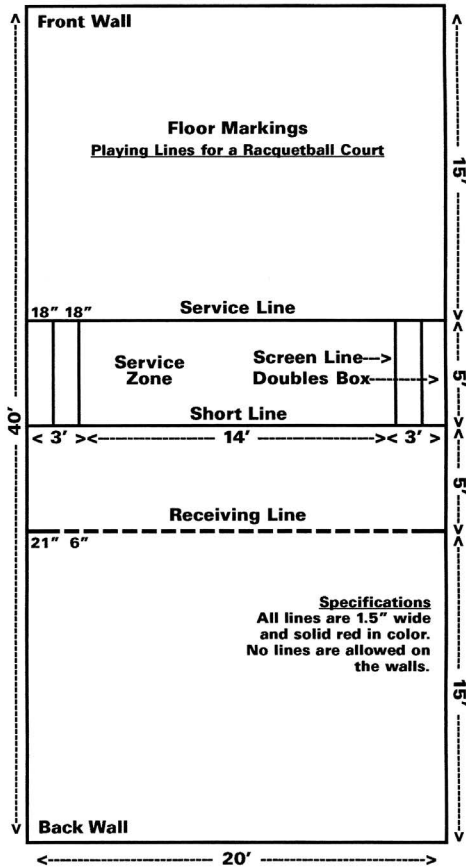


**Note:** Court can be used for both singles and doubles play. Dimensions determined by the Badminton World Federation.

## FOR MORE INFORMATION CONTACT:

**USA Badminton**  
(719) 866-4808  
www.usabadminton.org

# RACQUETBALL/HANDBALL



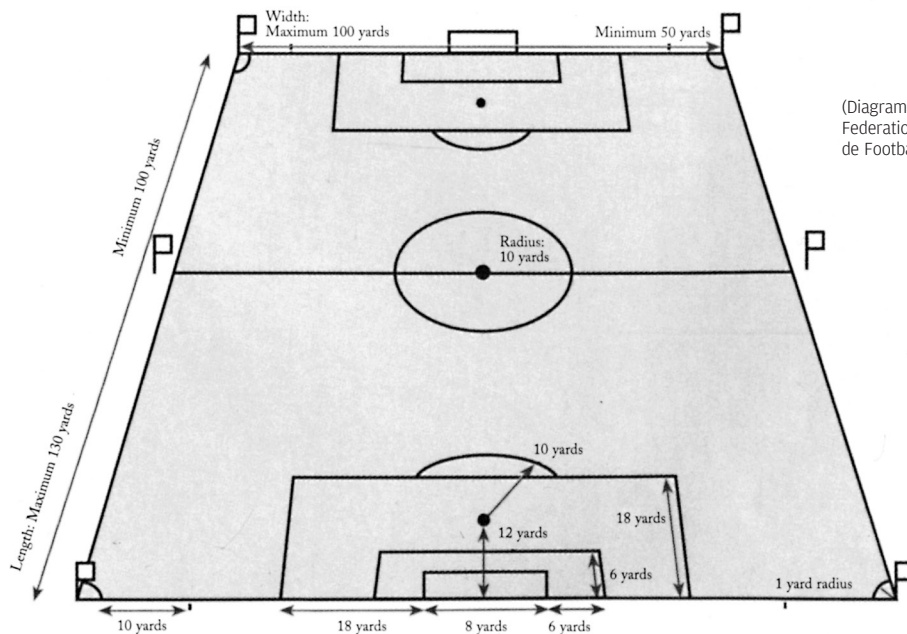
(Diagrams courtesy of USA Racquetball.)

**FOR MORE INFORMATION CONTACT:**

USA Racquetball  
(719) 635-5396  
www.usaracquetball.com

# SOCCER

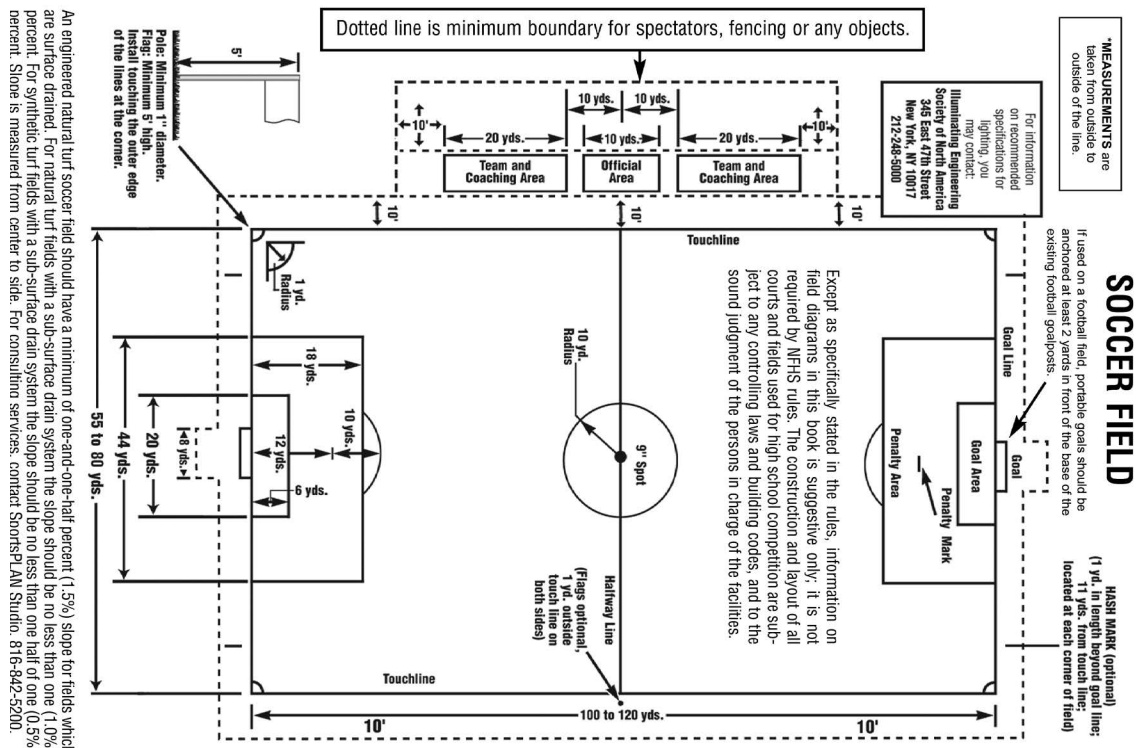
## OUTDOOR



(Diagram courtesy of the Federation Internationale de Football Association.)

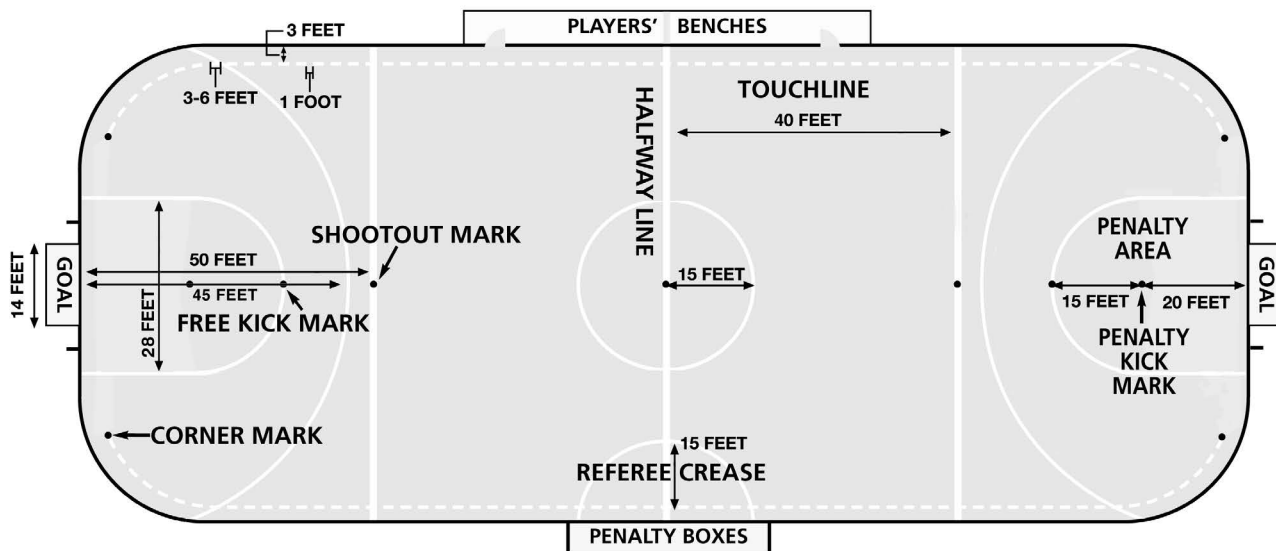
**Note:** The length of the touch line must be greater than the length of the goal line. For players under 16 years old, the size of the field of play, as well as the width between the goal posts and the height of the crossbar from the ground, may be modified.

### HIGH SCHOOL (OUTDOOR)



(Diagram courtesy of NFHS.)

### INDOOR



**Note:** All line markings are either 4 or 5 inches wide. Goals are 8 feet high by 14 feet wide by 5 feet deep.

### FOR MORE INFORMATION CONTACT:

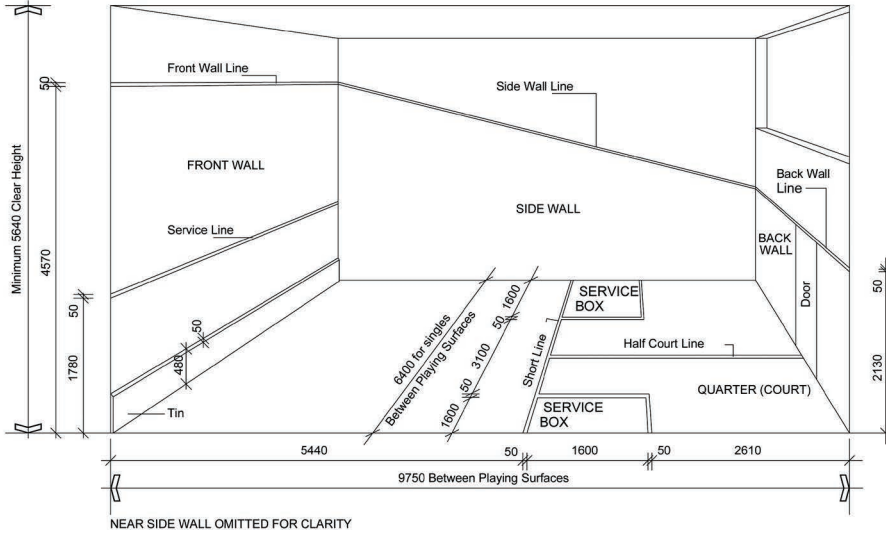
**American Youth Soccer Organization**  
 (800) 872-2976  
[www.ayso.org](http://www.ayso.org)

**U.S. Soccer Federation**  
 (312) 808-1300  
[www.usoccer.com](http://www.usoccer.com)

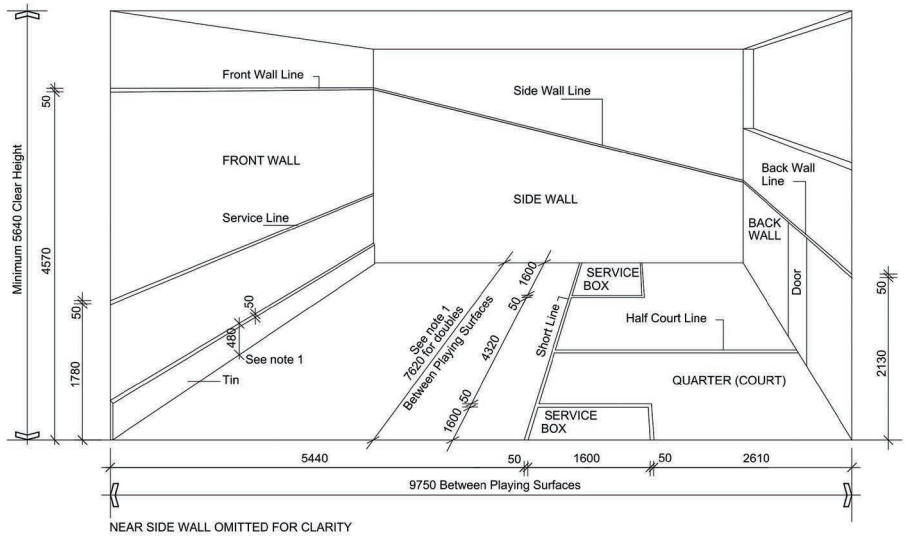
**U.S. Youth Soccer**  
 (972) 334-9300  
[www.usyouthsoccer.org](http://www.usyouthsoccer.org)

# SQUASH

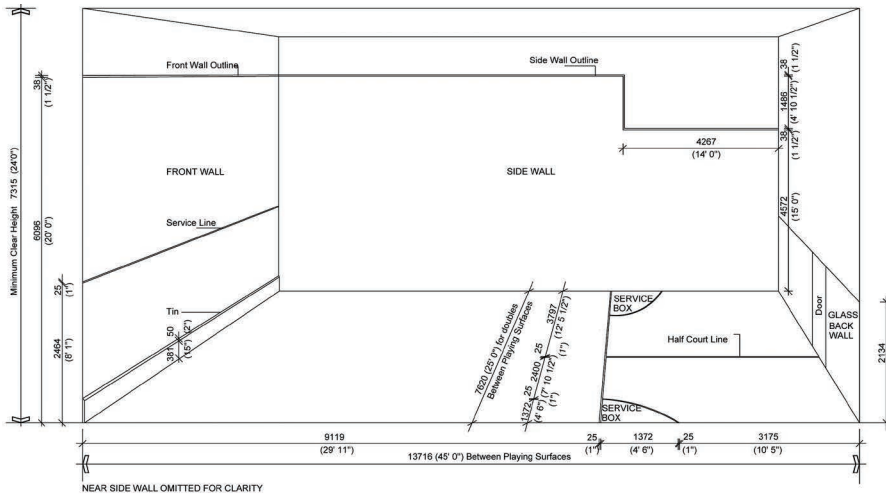
## INTERNATIONAL SINGLES COURT



## INTERNATIONAL DOUBLES COURT



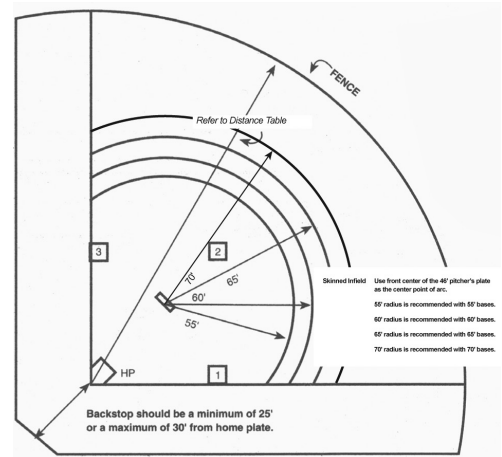
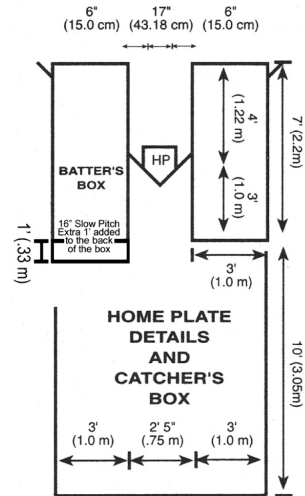
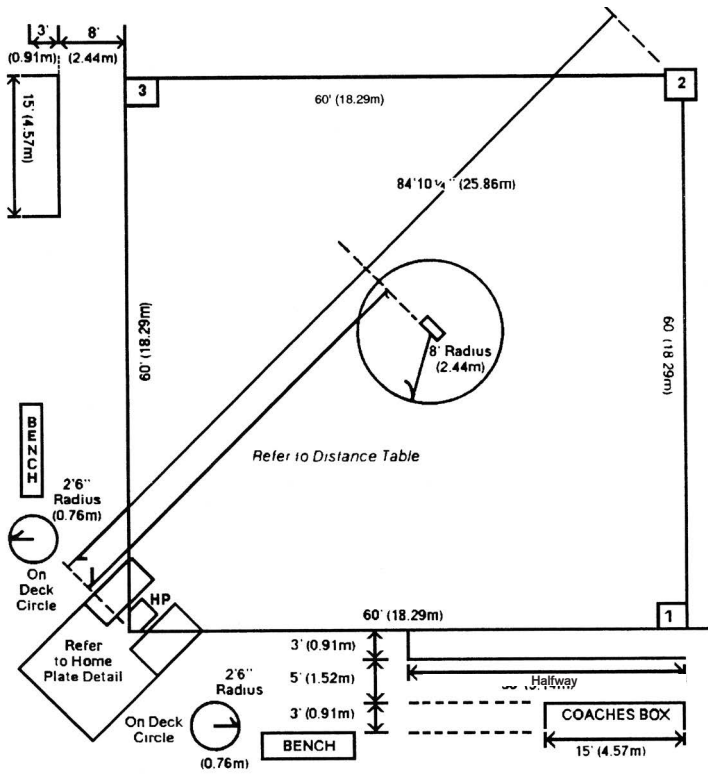
## HARDBALL DOUBLES COURT



(Diagrams courtesy of US Squash.)

**FOR MORE  
INFORMATION  
CONTACT:**

**US Squash**  
(212) 268-4090  
[www.ussquash.com](http://www.ussquash.com)



(Diagrams courtesy of the ASA.)

OFFICIAL DISTANCE TABLE

ADULT		OFFICIAL DISTANCE TABLE			
GAME	DIVISION	BASES	PITCHING	FENCES	
				Minimum	Maximum
Fast Pitch	Women	60' (18.29 m)	43' (13.11 m)	200' (60.96 m)	250'
	Men	60' (18.29 m)	46' (14.02 m)	225' (68.58 m)	275'
Modified	Women	60' (18.29 m)	40' (12.19 m)	200' (60.96 m)	275'
	Men	60' (18.29 m)	46' (14.02 m)	265' (80.80 m)	325'
Slow Pitch	Women	70' (19.81 m)	50' (15.24 m)	265' (80.80 m)	300'
	Men	70' (19.81 m)	50' (15.24 m)	300' (91.44 m)	315'
	Co-ed	70' (19.81 m)	50' (15.24 m)	275' (83.82 m)	300'
16-inch Slow Pitch	Women	55' (16.76 m)	38' (11.58 m)	200' (60.96 m)	250'
	Men	60' (18.29 m)	38' (11.58 m)	250' (76.20 m)	300'
YOUTH		OFFICIAL DISTANCE TABLE			
GAME	DIVISION	BASES	PITCHING	FENCES	
				Minimum	Maximum
Fast Pitch	Girls 10-U	60' (18.29 m)	35' (10.67 m)	175' (53.34 m)	225'
	Girls 12-U	60' (18.29 m)	40' (12.19 m)	200' (60.96 m)	225'
	Girls 14-U	60' (18.29 m)	43' (12.19 m)	200' (60.96 m)	225'
	Girls 16-U	60' (18.29 m)	43' (12.19 m)	200' (60.96 m)	225'
	Girls 18-U	60' (18.29 m)	43' (13.11 m)	200' (60.96 m)	225'
	Girls 18-U Gold	60' (18.29 m)	43' (13.11 m)	200' (60.96 m)	225'
	Boys 10-U	60' (18.29 m)	35' (10.67 m)	175' (53.34 m)	225'
	Boys 12-U	60' (18.29 m)	40' (12.19 m)	200' (60.96 m)	225'
	Boys 14-U	60' (18.29 m)	46' (14.02 m)	200' (60.96 m)	225'
	Boys 16-U	60' (18.29 m)	46' (14.02 m)	200' (60.96 m)	225'
Slow Pitch	Girls 10-U	60' (18.29 m)	40' (12.19 m)	175' (53.34 m)	200'
	Girls 12-U	60' (18.29 m)	46' (14.02 m)	175' (53.34 m)	200'
	Girls 14-U	65' (19.81 m)	50' (15.24 m)	225' (68.58 m)	250'
	Girls 16-U	65' (19.81 m)	50' (15.24 m)	225' (68.58 m)	250'
	Girls 18-U	65' (19.81 m)	50' (15.24 m)	225' (68.58 m)	250'
	Boys 10-U	60' (18.29 m)	40' (12.19 m)	200' (60.96 m)	225'
	Boys 12-U	60' (18.29 m)	46' (14.02 m)	225' (68.58 m)	250'
	Boys 14-U	65' (19.81 m)	50' (15.24 m)	275' (83.82 m)	300'
	Boys 16-U	65' (19.81 m)	50' (15.24 m)	275' (83.82 m)	300'
	Boys 18-U	65' (19.81 m)	50' (15.24 m)	275' (83.82 m)	300'

If the base distances or the pitching distance is found to be at the wrong dimensions during the course of the game, correct the error, with no penalty, and continue playing the game. Every effort should be made by the umpire to obtain the correct dimensions.

**Note:** NCAA rules require a pitcher's lane consisting of 8' lines drawn from the outer edges of the pitcher's plate toward the inside edges of the inside front corners of the batter's boxes. NCAA coaches' boxes each consist of two lines: one 15' line parallel to and 8' from the baseline extended from the back edge of the base toward home plate and one 3' line perpendicular to the end of the 15' line that is closest to home plate. NCAA fence minimum distances are 210' in right and left field and 230' (and not more than 235') in center. For all new construction after 2016, it is required that the fence be 6' or higher and be a minimum of 190' in left and right fields and 220 in center field. By 2017, an institutional field with a 4' fence must be a minimum of 210' in left and right fields and 230' in center field, and it is highly recommended that a municipal field with a 4' fence used by the institution be at those same distances. The only difference between college and high school is the pitching distance. NFHS requires 43' for female fast pitch, 46' for male fast pitch and male/female slow pitch, and 50' when an 11" ball is used in slow pitch.

High School fast pitch male .....	46'
slow pitch male .....	46'
slow pitch female .....	46'
fast pitch female .....	43'
slow pitch when 11" ball is used .....	50'
College .....	43'

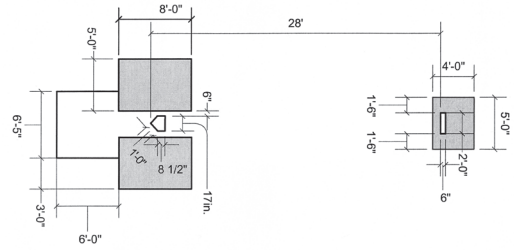
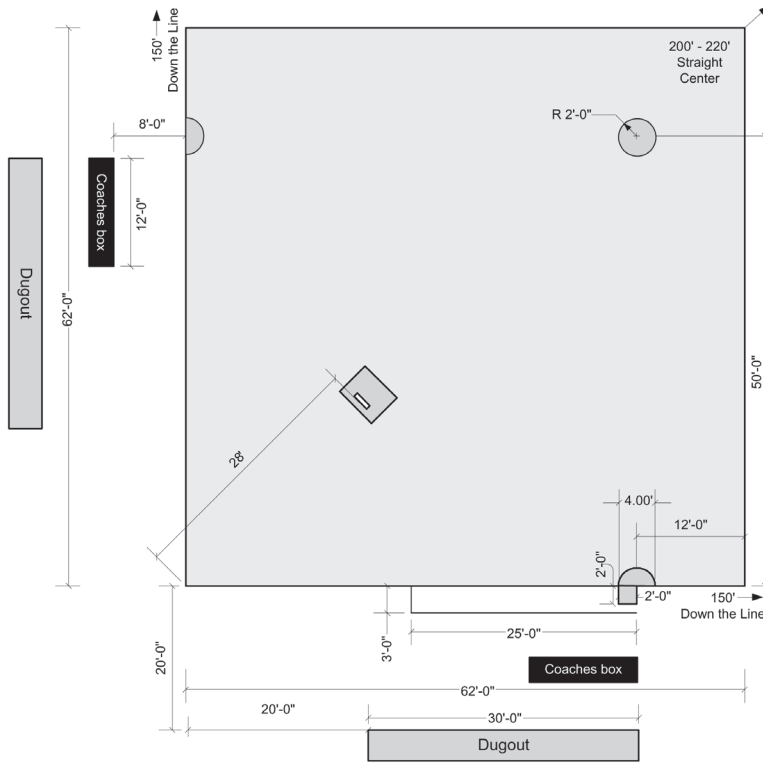
### FOR MORE INFORMATION CONTACT:

**Amateur Softball Association of America**  
 (405) 424-5266  
 www.asasoftball.com

**National Federation of State High School Associations**  
 (317) 972-6900  
 www.nfhs.org

# SOFTBALL

## WHEELCHAIR



**FOR MORE INFORMATION CONTACT:**

**National Wheelchair Softball Association**  
 (402) 305-5020  
[www.wheelchairs softball.org](http://www.wheelchairs softball.org)

# WATER POLO

**FOR MORE INFORMATION CONTACT:**

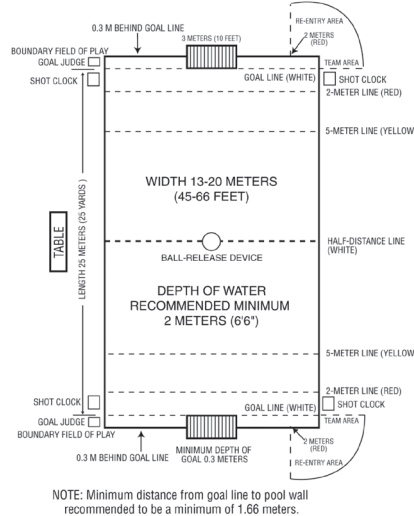
**National Collegiate Athletic Association**  
 (317) 917-6222  
[www.ncaa.org](http://www.ncaa.org)

**National Federation of State High School Associations**  
 (317) 972-6900  
[www.nfhs.org](http://www.nfhs.org)

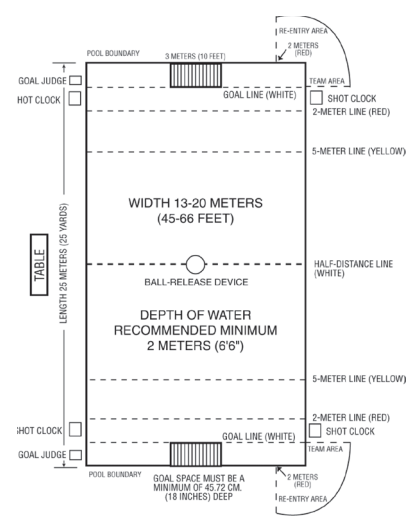
**USA Water Polo**  
 (714) 500-5445  
[www.usawaterpolo.com](http://www.usawaterpolo.com)

(Diagrams courtesy of NFHS.)

## FLOATING GOAL



## WALL-MOUNTED GOAL



**Note:** Floating-goal pools used in NCAA competition may exhibit a maximum length of 100 feet (30 meters) and a minimum length of 75 feet (22.9 meters) for men, and a maximum length of 82 feet (25 meters) and a minimum length of 75 feet (22.9 meters) for women. The NCAA floating-goal pool also features a ball-release device at the center circle. All future pools built for NCAA water polo should conform to metric dimensions.

### INTERNATIONAL & NATIONAL COMPETITION

There are a number of sanctioning organizations for national and international amateur competition. Included here are the facility standards of FINA (the Federation Internationale de Natation) and two of its U.S. affiliates, USA Swimming and USA Diving, as well as the National Collegiate Athletic Association (NCAA)

#### FINA STANDARDS

- Length—50m. When touch panels or electronic timing devices are used, the pool must be of such length that ensures the required distance between the panels.
- Width—25m preferred.
- Depth – A minimum depth of 1.35 meters, extending from 1.0 meter to at least 6.0 meters from the end wall is required for pools with starting blocks. A minimum depth of 1.0 meter is required elsewhere.
- Number of lanes—8. For Olympic Games and World Championships, 10 lanes are required.
- Width of lanes—2.5m minimum with spaces of 0.2m outside first and last lanes. A lane rope must separate these spaces from the first and last lanes.

#### USA SWIMMING STANDARDS

- Length—Long course, 164 $\frac{1}{2}$ ' (50m); short course, 82 $\frac{1}{4}$ ' (25m) or 25 yds.
- Width—Eight lanes, 8'2 $\frac{1}{2}$ " (2.5m) minimum (centerline to centerline), with approximately 1'6" (0.45m) of open water outside first and last lanes.
- Water depth—For national championships and international competition, 6'7" (2m) throughout the course. Minimum water depth for racing starts during competition and practice shall be measured for a distance 3'3 $\frac{1}{2}$ " (1m) to 16'5" (5m) from the end wall. Starting requirements and height of starting blocks shall be as follows: Long Course and Short Course meters: (A) In pools with water depth less than 4' (1.22m) at the starting end, the swimmer must start from within the water; (B) In pools with water depth 4' (1.22m) or

more at the starting end, starting platforms shall be no less than 20" (0.5m) nor more than 2'5 $\frac{1}{2}$ " (0.75m) above the water surface. Short Course yards: The front edge of the starting platforms shall be no higher than 2'6" (0.762m) above the surface of the water.

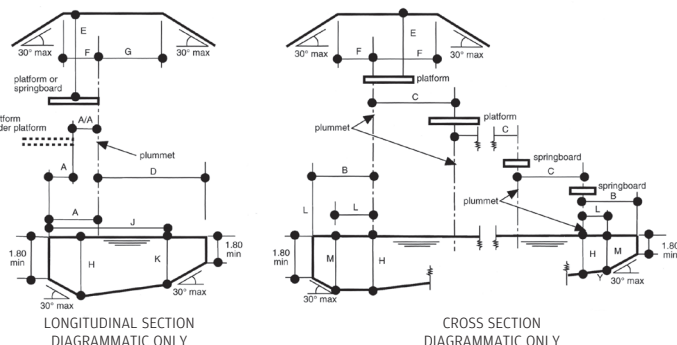
**Note:** Minimum water depth for teaching racing starts in any setting from any height starting blocks or the deck shall be 6' (1.84m) measured for a distance of 3'3 $\frac{1}{2}$ " (1.0m) to 16'5" (5.0m) from the end wall.

### FINA AND USA DIVING DIMENSIONS FOR DIVING FACILITIES

FINA Dimensions for Diving Facilities		SPRINGBOARD						PLATFORM							
As of 15 March 2010 (see FR 5.3.1)		1 metre		3 metres		1 metre		3 metres		5 metres		7.5 metres		10 metres	
		Length		4.80		4.80		5.00		5.00		6.00		6.00	
		Width		0.50		0.50		0.60		0.60min/1.50pre		1.50		1.50	
		Height		1.00		3.00		0.60-1.00		2.60-3.00		5.00		7.50	
		Horiz		Vert		Horiz		Vert		Horiz		Vert		Horiz	
A	From Plummet BACK TO POOL WALL For regular metal stand For concrete platform	Designation	A-1	A-3	A-1pl	A-3pl	A-1	A-3	A-1pl	A-3pl	A-5	A-7.5	A-10	A-10	A-10
		Minimum	1.50	1.50	0.75	1.25	1.25	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
		Preferred	1.80	1.80	0.75	1.25	1.25	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
		Preferred	2.24	2.24											
A/A	From plummet BACK TO PLATFORM plummet directly below	Designation								A/A 5/1	A/A 7.5/3.1	A/A 10/5.3,1			
		Minimum								0.75	0.75	0.75			
		Preferred								1.25	1.25	1.25			
		Preferred													
B	From plummet to POOL WALL AT SIDE	Designation	B-1	B-3	B-1pl	B-3pl	B-5	B-7.5	B-10						
		Minimum	2.50	3.50	2.30	2.80	3.25	4.25	5.25						
		Preferred	2.50	3.50	2.30	2.90	3.75	4.50	5.25						
		Preferred													
C	From plummet to ADJACENT PLUMMET	Designation	C 1-1	C-3-3,3-1	C1-1pl	C3-3pl,1pl	C5-3,5-1	C7.5-5,3,1	C10-7.5,5,3,1						
		Minimum	2.00	2.20	1.65	2.00	2.25	2.50	2.75						
		Preferred	2.40	2.60	1.95	2.10	2.50	2.50	2.75						
		Preferred													
D	From plummet to POOL WALL AHEAD	Designation	D-1	D-3	D-1pl	D-3pl	D-5	D-7.5	D-10						
		Minimum	9.00	10.25	8.00	9.50	10.25	11.00	13.50						
		Preferred	9.00	10.25	8.00	9.50	10.25	11.00	13.50						
		Preferred													
E	On plummet, from BOARD TO CEILING	Designation	E-1	E-3	E-1pl	E-3pl	E-5	E-7.5	E-10						
		Minimum	5.00	5.00	3.25	3.25	3.25	3.25	3.25	4.00					
		Preferred	5.00	5.00	3.50	3.50	3.50	3.50	3.50	5.00					
		Preferred													
F	CLEAR OVERHEAD behind and each side of plummet	Designation	F-1	F-3	F-1pl	F-3pl	F-5	F-7.5	F-10						
		Minimum	2.50	5.00	2.50	5.00	2.75	3.25	2.75	3.25	2.75	3.25	2.75	4.00	
		Preferred	2.50	5.00	2.50	5.00	2.75	3.50	2.75	3.50	2.75	3.50	2.75	5.00	
		Preferred													
G	CLEAR OVERHEAD ahead of plummet	Designation	G-1	G-3	G-1pl	G-3pl	G-5	G-7.5	G-10						
		Minimum	5.00	5.00	5.00	5.00	3.25	5.00	3.25	5.00	3.25	5.00	3.25	6.00	
		Preferred	5.00	5.00	5.00	5.00	3.50	5.00	3.50	5.00	3.50	5.00	3.50	6.00	
		Preferred													
H	DEPTH OF WATER At plummet	Designation	H-1	H-3	H-1pl	H-3pl	H-5	H-7.5	H-10						
		Minimum	3.40	3.70	3.20	3.50	3.70	4.10	4.50						
		Preferred	3.50	3.80	3.30	3.60	3.80	4.20	4.60						
		Preferred													
J/K	DISTANCE AND DEPTH From back wall For regular metal stand For concrete platform	Designation	J-1	J-3	J-1pl	J-3pl	J-5	J-7.5	J-10						
		Minimum	6.50	3.30	7.50	3.60	5.25	3.10	6.75	3.40	7.25	3.60	9.50	4.00	12.50
		Preferred	6.80	3.40	7.80	3.70									
		Preferred	7.24	3.40	8.24	3.70	5.25	3.20	6.75	3.50	7.25	3.70	9.50	4.40	12.50
L	DISTANCE AND DEPTH each side of plummet	Designation	L-1	M-1	L-3	M-3	L-1pl	M-1pl	L-3pl	M-3pl	L-5	M-5	L-7.5	M-7.5	L-10
		Minimum	1.50	3.30	2.00	3.60	1.40	3.10	1.80	3.40	3.00	3.60	3.75	4.00	4.50
		Preferred	2.00	3.40	2.50	3.70	1.90	3.20	2.30	3.50	3.50	3.70	4.50	4.40	5.25
		Preferred													
N	MAXIMUM SLOPE TO reduce dimensions	POOL DEPTH - 30 degrees		<b>Note:</b> Dimensions C (plummet to adjacent plummet) apply to Platforms with widths as detailed.											
		CEILING HT - 30 degrees		If Platform widths are increased then C is to be increased by half the additional width(s).											

The last row in dimensions A and J/K are to be used when FINA approved short fulcrum boxes are installed on concrete platforms.

### POOL CROSS-SECTION



### FOR MORE INFORMATION CONTACT:

USA Diving  
(317) 237-5252  
www.usadiving.org

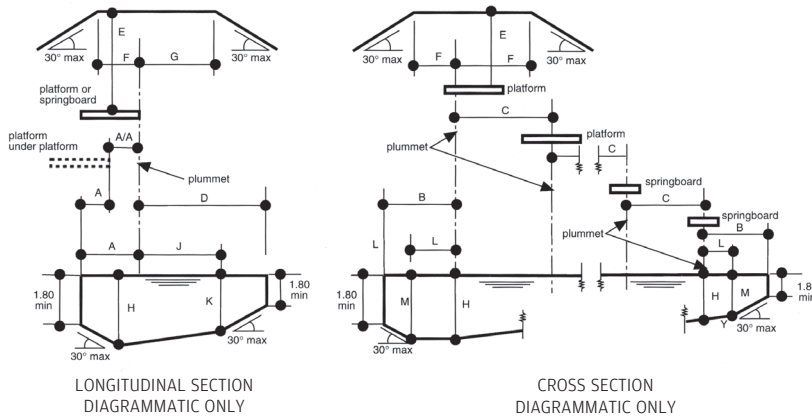
USA Swimming  
(719) 866-4578  
www.usaswimming.org



# SWIMMING & DIVING

The following are NCAA standard pool dimensions. These are recommended dimensions for collegiate competition only, and specifications are subject to annual review and change.

## POOL CROSS-SECTION



### LONG-COURSE SWIMMING

- Preferred—For facilities dated after Sept. 1, 1996, it is preferred that the racing course be 50m (164' ½") in length by 75' (22.86m) in width, providing for eight 9' (2.74m) lanes with additional width outside lanes 1 and 8. A minimum water depth of 7' (2.13m) is desirable for competition. Optional markings: nine 8' (2.44m) lanes or ten 7' (2.13m) lanes.
- Acceptable—For existing facilities, it is acceptable that the racing course be 50m (164' ½") in length by 60' (18.29m) in width, providing for eight 7' (2.13m) lanes with additional width outside lanes 1 and 8. The water depth may be no less than 4' (1.22m) at the starting end of the racing course and no less than 3'6" (1.07m) at the opposite end. However, a water depth of no less than 7' (2.13m) is recommended throughout the entire length of the racing course.

### SHORT-COURSE SWIMMING

- Preferred yards—The racing course should be 75' (22.86m) in length by at least 60' (18.29m) in width, providing for not less than eight 7' (2.13m) lanes with additional width outside lanes 1 and 8. A minimum water depth of 7' (2.13m) is desirable for optimal competition conditions.
- Preferred meters—The racing course should be 25m, (82' ¼") in length by at least 60' (18.29m) in width, providing for eight 7' (2.13m) lanes with additional width outside lanes 1 and 8. A minimum water depth of 7' (2.13m) is desirable for optimal competition conditions.
- Acceptable yards—The racing course may be 75' (22.86m) in length by 30' (9.15m) in width, providing for at least five 6' (1.83m) lanes. The water depth may be no less than 4' (1.22m) at the starting end of the racing course and no less than 3'6" (1.07m) at the opposite end. However, a water depth of no less than 4' (1.22m) is recommended throughout the entire length of the racing course.
- Acceptable meters—The racing course may be 25m, (82' ¼") in length by at least 30' (9.15m) in width, providing for at least five 6' (1.83m) lanes. The water depth may be no less than 4' (1.22m) at the starting end of the racing course and no less than 3.5' (1.07m) at the opposite end. However, a water depth of no less than 4' (1.22m) is recommended throughout the entire length of the racing course.

## DIVING CHART

NCAA Recommended Dimensions for Diving Facilities		Dimensions are in Feet	SPRINGBOARD				PLATFORM					
			1 meter		3 meters		5 meters		7.5 meters		10 meters	
Revised October 1, 2013		LENGTH	16'		16'		20'		20'		20'	
		WIDTH	1'8"		1'8"		8'6"(min) 9'10"(pref)		6'7"(min) 9'10"(pref)		9'10"	
		HEIGHT	3'4"		9'10"		16'5"		24'8"		32'10"	
			Horiz.	Vert.	Horiz.	Vert.	Horiz.	Vert.	Horiz.	Vert.	Horiz.	Vert.
A	From plumbet BACK TO POOL WALL	Designation	A-1		A-3		A-5		A-7.5		A-10	
		Minimum	5'		5'		4'2"		4'2"		5'	
		Preferred	6'1"		6'1"		4'2"		4'2"		5'	
A/A	From plumbet BACK TO PLATFORM plumbet directly below	Designation			A/A5		A/A7.5		A/A10			
		Minimum			2'6"		2'6"		2'6"			
		Preferred			4'2"		4'2"		4'2"			
B	From plumbet to POOL WALL AT SIDE	Designation	B-1		B-3		B-5		B-7.5		B-10	
		Minimum	8'3"		11'6"		11'2"		14'10"		18'11"	
		Preferred	8'3"		11'6"		12'10"		15'7"		18'11"	
C	From plumbet to ADJACENT PLUMBET	Designation	C-11		C-31		C-531		C-7.5531		C-107.5531	
		Minimum	6'7"		7'3"		7'11"		9'1"		10'8"	
		Preferred	7'1"		8'3"		8'9"		9'1"		10'8"	
D	From plumbet to POOL WALL AHEAD	Designation	D-1		D-3		D-5		D-7.5		D-10	
		Minimum	29'7"		33'8"		33'8"		36'2"		44'4"	
		Preferred	29'7"		33'8"		33'8"		36'2"		44'4"	
E	On plumbet from BOARD TO CEILING	Designation	E-1		E-3		E-5		E-7.5		E-10	
		Minimum	16'5"		16'5"		10'8"		10'8"		13'2"	
		Preferred	16'5"		16'5"		11'6"		11'6"		16'5"	
F	CLEAR OVERHEAD behind and each side of plumbet	Designation	F-1	E-1	F-3	E-3	F-5	E-5	F-7.5	E-7.5	F-10	E-10
		Minimum	8'3"	16'5"	8'3"	16'5"	9'1"	10'8"	9'1"	10'9"	9'1"	13'2"
		Preferred	8'3"	16'5"	8'3"	16'5"	9'1"	11'6"	9'1"	11'6"	9'1"	16'5"
G	CLEAR OVERHEAD ahead of plumbet	Designation	G-1	E-1	G-3	E-3	G-5	E-5	G-7.5	E-7.5	G-10	E-10
		Minimum	16'5"	16'5"	16'5"	16'5"	16'5"	10'8"	16'5"	10'8"	19'9"	13'2"
		Preferred	16'5"	16'5"	16'5"	16'5"	16'5"	11'6"	16'5"	11'6"	19'9"	16'5"
H	DEPTH OF WATER at plumbet (minimum required)	Designation	H-1		H-3		H-5		H-7.5		H-10	
		Minimum	11'2"		12'2"		12'2"		13'6"		14'10"	
		Preferred	11'6"		12'6"		12'6"		14'10"		16'5"	
J-K	DISTANCE AND DEPTH ahead of plumbet	Designation	J-1	K-1	J-3	K-3	J-5	K-5	J-7.5	K-7.5	J-10	K-10
		Minimum	21'4"	10'10"	24'8"	11'10"	23'10"	11'10"	31'10"	13'2"	41'	14'
		Preferred	22'4"	11'2"	25'7"	12'2"	19'9"	12'2"	26'3"	14'6"	36'2"	15'7"
L-M	DISTANCE AND DEPTH each side of plumbet	Designation	L-1	M-1	L-3	M-3	L-5	M-5	L-7.5	M-7.5	L-10	M-10
		Minimum	5'	10'10"	6'7"	11'10"	9'11"	11'10"	12'4"	13'2"	14'10"	14'
		Preferred	6'7"	11'2"	8'3"	12'2"	11'6"	12'2"	14'10"	14'6"	17'3"	15'7"
N	MAXIMUM SLOPE TO REDUCE DIMENSIONS beyond full requirements	Pool depth	30 degrees		Note 1: Dimensions C (plumbet to adjacent plumbet) apply for platforms with widths as detailed. For wider platforms increase C by half the additional width(s).							
		Ceiling Ht.	30 degrees		Note 2: All dimensions rounded up, even if only fractionally greater than the next lowest inch.							

### DIVING POOL

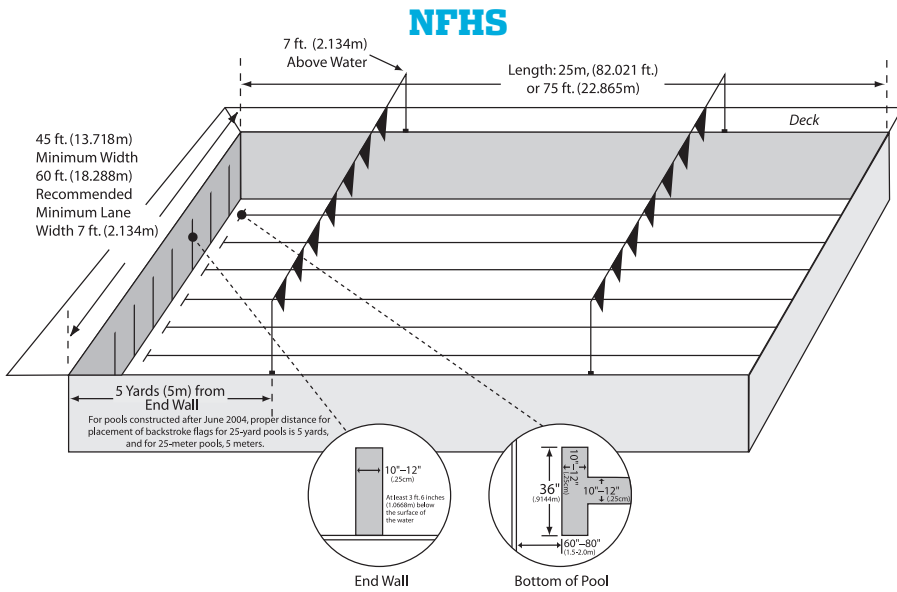
- Preferred—The diving facility should be 60' (18.29m) in length by 75' (22.86m) in width. It should be equipped with two 1-meter and two 3-meter springboards and a diving tower, providing takeoff platforms at 5, 7.5 and 10 meters. Recommended dimensions for diving facilities are specified in the table on the left.
- Acceptable—The diving facility may be separated from or incorporated with the swimming pool. Recommended dimensions for diving facilities are specified in the table on the left.

**Note:** The above dimensions may be incorporated in "L," "T," "Z" and "U" shaped pools.

### PLUMBET DEPTH

For all championship and nonchampionship springboard and platform diving competitions, the water depths at the plumbet may be no less than the minimum standards as specified in the table at left.

**Note:** Length of pool is measured from inside walls or from tile or timing devices attached to the wall. New construction should account for pads being added when calculating length.



### Number of Lanes

All championship swimming competitions shall be conducted in racing courses having a minimum of six, 6-foot lanes. It is recommended that the racing course have a minimum of eight, 6-foot lanes.

### Standard Length

All championship swimming competitions shall be conducted in racing courses of standard length (75 feet 1 inch; 25 meters 2.54 centimeters; or 50 meters 2.54 centimeters).

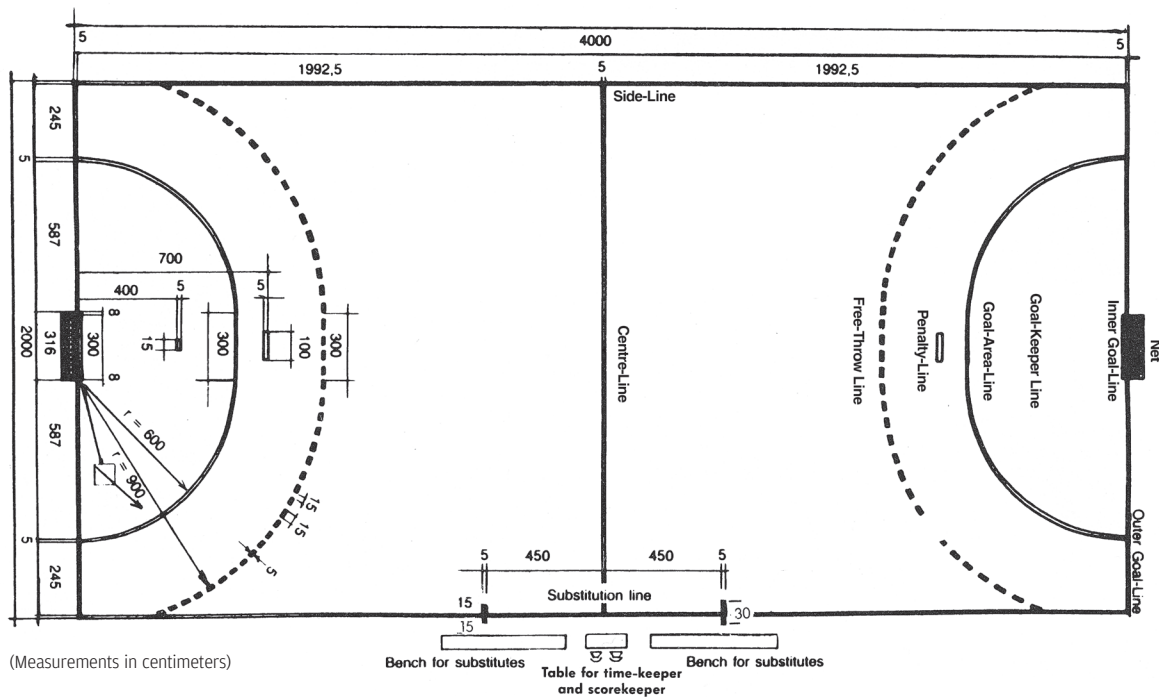
## FOR MORE INFORMATION CONTACT:

**National Federation of State High School Associations**  
 (317) 972-6900  
[www.nfhs.org](http://www.nfhs.org)

## FOR MORE INFORMATION CONTACT:

**National Collegiate Athletic Association**  
 (317) 917-6222  
[www.ncaa.org](http://www.ncaa.org)

# TEAM HANDBALL



(Measurements in centimeters)

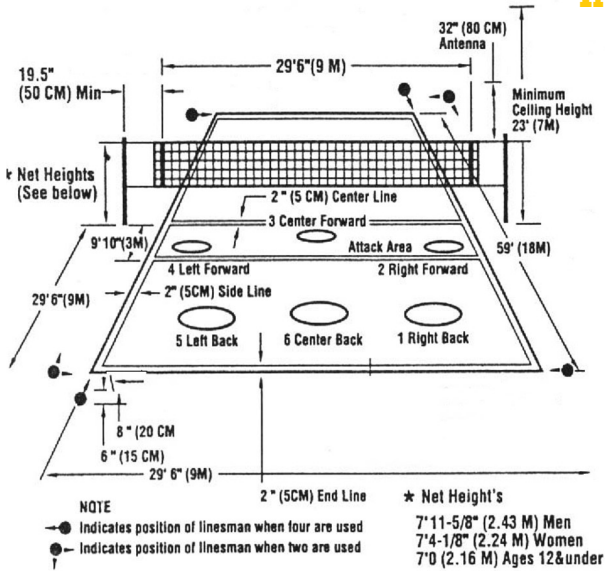
**Note:** A 3-meter segment centered within and as part of the center line may be of a contrasting color to the rest of the line.

## FOR MORE INFORMATION CONTACT:

**USA Team Handball**  
 (719) 866-2203  
[www.usateamhandball.org](http://www.usateamhandball.org)

# VOLLEYBALL

## INDOOR



The following net heights are currently in practice for the below indicated age groups and scholastic levels of competition:

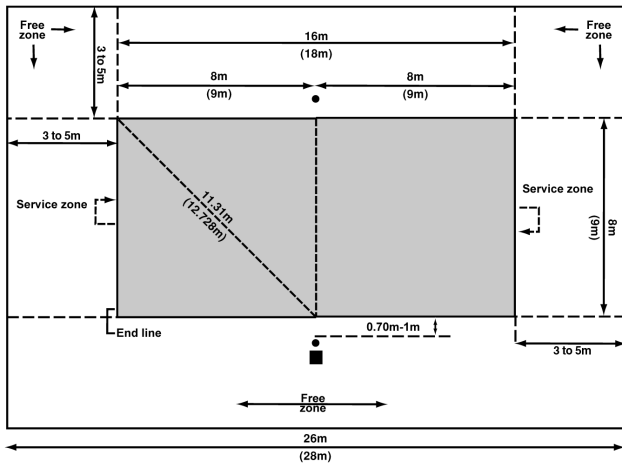
AGE GROUPS	GIRLS	BOYS/COED
18 to 15 years	2.24m (7'4 1/4")	2.43m (7'11 1/2")
14 and 13 years	2.24m (7'4 1/4")	2.24m (7'4 1/4")
12 and 11 years	2.13m (7'0")	2.13m (7'0")
10 years and under	1.98m (6'6")	2.13m (7'0")

SCHOLASTIC LEVELS	GIRLS	BOYS/COED
Grades 1 through 6 (Elementary School):	1.85m (6'1")	1.85m (6'1")
Grades 7 and 8 (Middle School):	2.24m (7'4 1/4")	2.24m (7'4 1/4")
Grades 9 through 12 (High School):	2.24m (7'4 1/4")	2.43m (7'11 1/2")

(Diagram courtesy of USA Volleyball.)

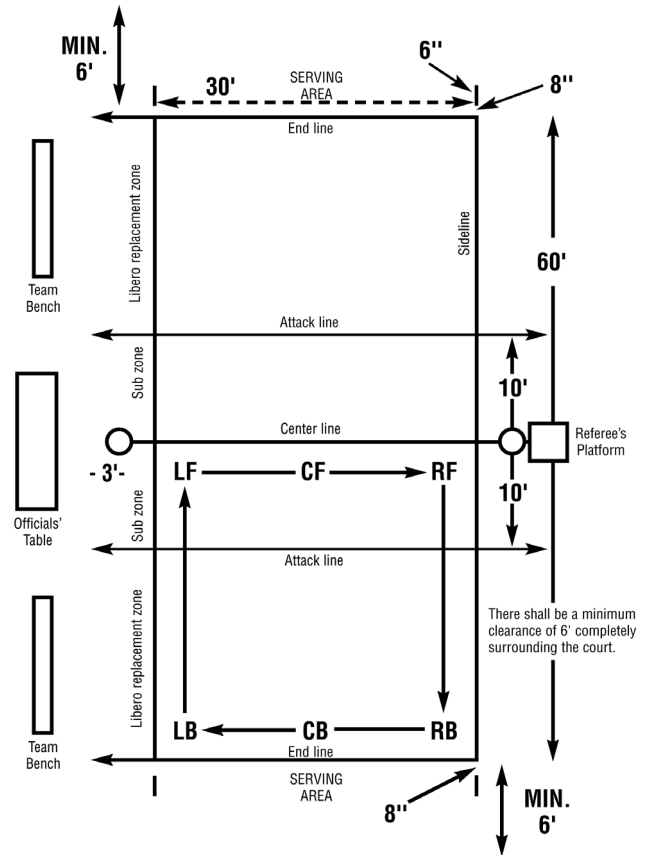
## OUTDOOR



**Note:** Dimensions of the standard doubles court shall be 8 by 16 meters. A 9-by-18-meter court shall be used for four-and six-person play.

(Diagram courtesy of USA Volleyball.)

## HIGH SCHOOL (INDOOR)



(Diagram courtesy of NFHS.)

**Note:** USA Volleyball and NFHS rules require standards to be 3 feet (1 meter) outside the court. In the interest of safety for age-group and scholastic competition, the height of the net shall be that specified for male competition. This height requirement shall not be modified; USA Volleyball recommends the free-zone distance between side-by-side courts be a minimum of 13 feet (4 meters). Dash marks extending the 3-meter line to off the court are recommended for collegiate level play and above. NCAA rules require a minimum ceiling height of 25 feet for all newly constructed facilities. NFHS rules allow court dimensions to measure 30 feet by 60 feet.

### FOR MORE INFORMATION CONTACT:

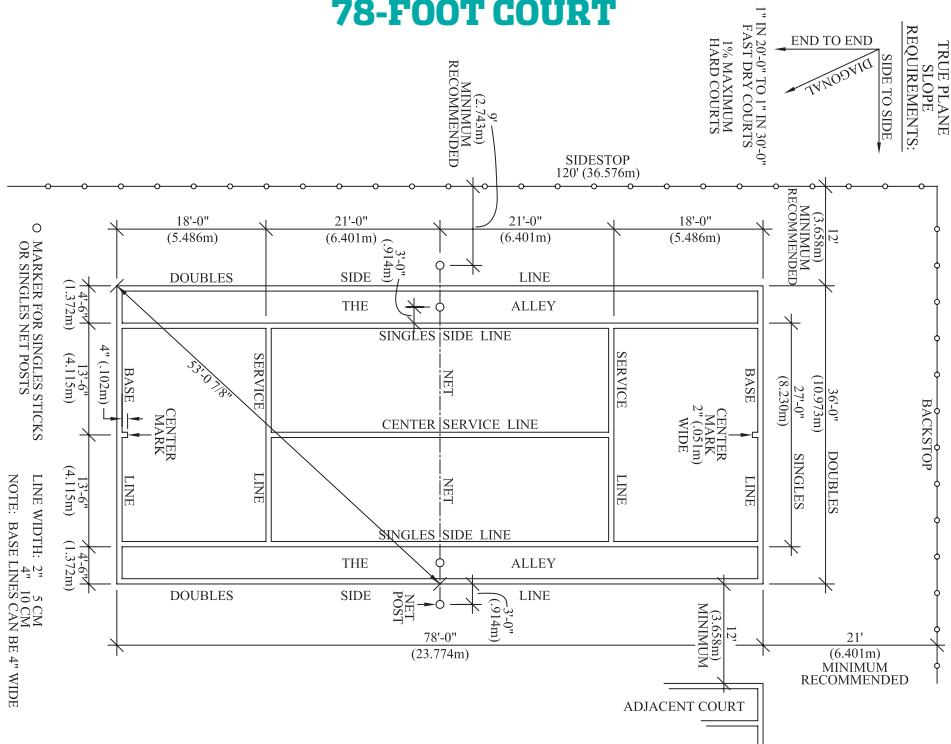
National Federation of State High School Associations

(317) 972-6900  
www.nfhs.org

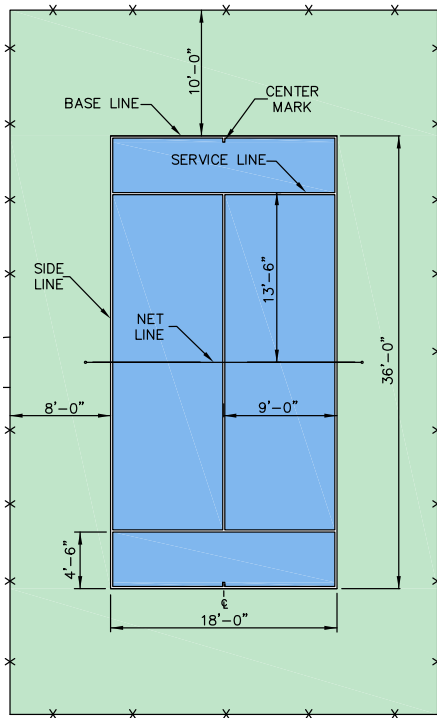
USA Volleyball

(719) 228-6800  
www.usavolleyball.org

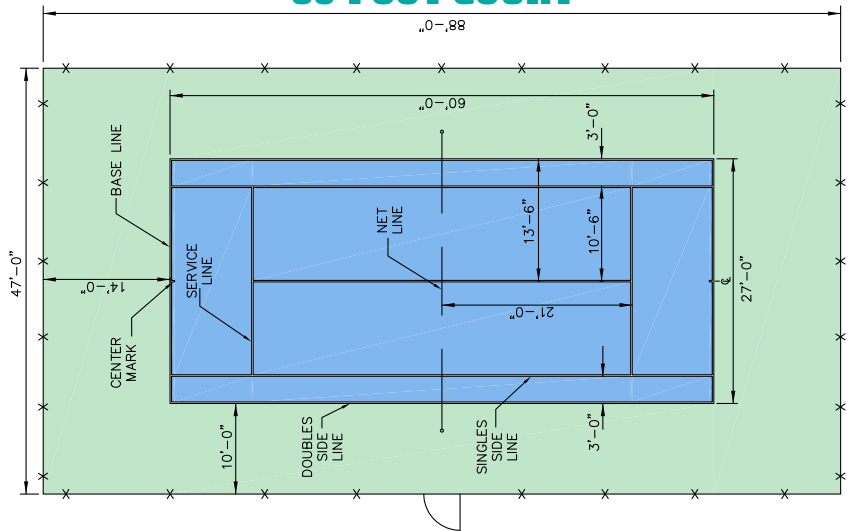
### 78-FOOT COURT



### 36-FOOT COURT



### 60-FOOT COURT



### FOR MORE INFORMATION CONTACT:

**American Sports Builders Association**  
 (410) 730-9595  
[www.sportsbuilders.org](http://www.sportsbuilders.org)

**U.S. Tennis Association**  
 (914) 696-7000  
[www.usta.com](http://www.usta.com)

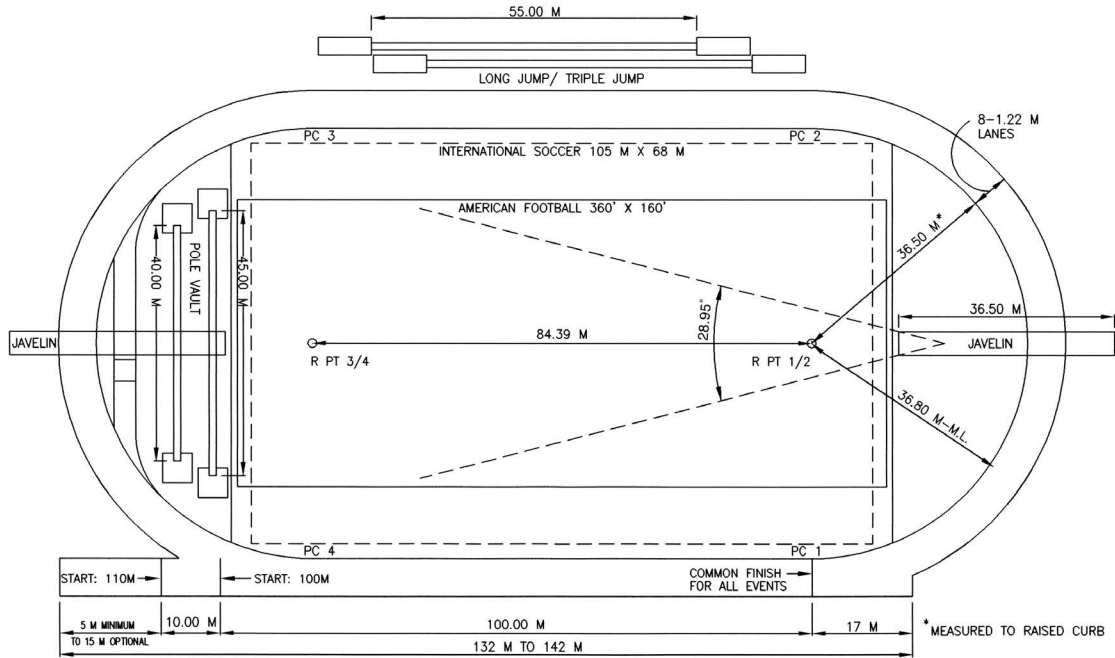
**Note:** All dimensions are to the outside edge of the lines. All playing lines are 2" in width, except the base line which may be between 2" and 4" in width.

(Diagrams courtesy of the ASBA.)

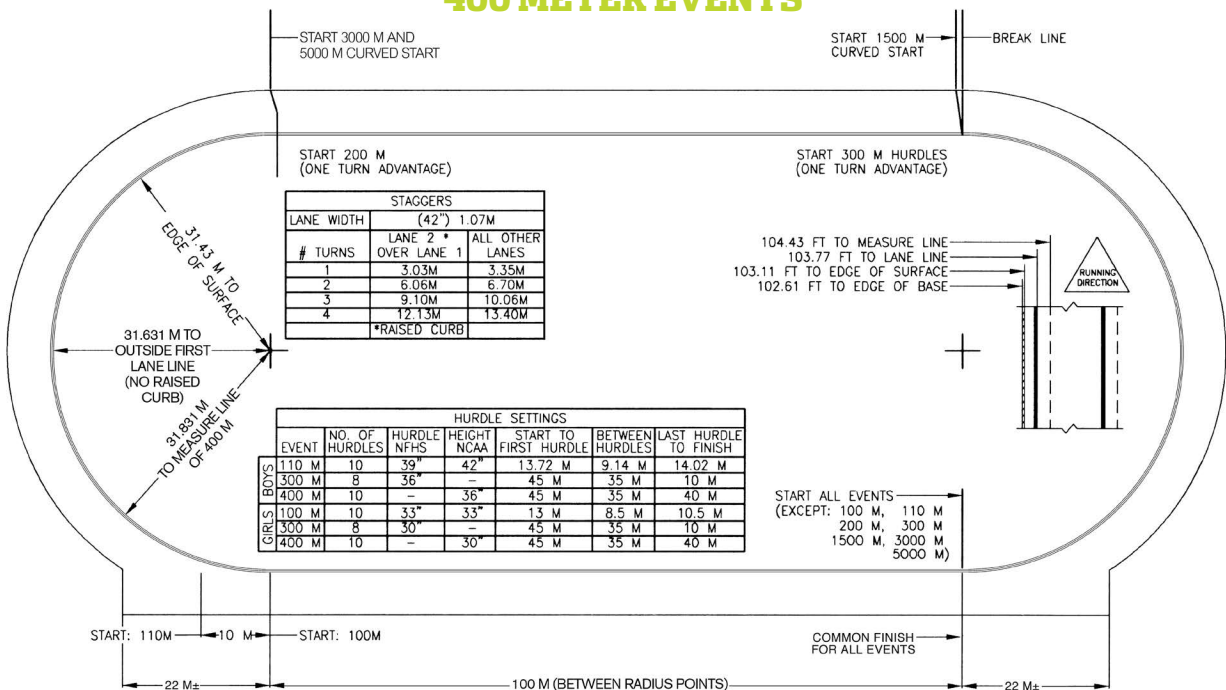
# TRACK & FIELD

Dimensions for track and field events appearing in the following diagrams are based on requirements set forth by the various governing bodies. There are variations included in the following diagrams that are requirements and recommendations for facilities governed by the National Federation of State High School Associations (NFHS), the National Collegiate Athletic Association (NCAA), USA Track & Field (USATF) or the International Amateur Athletic Federation (IAAF). Please consult the appropriate governing body or the American Sports Builders Association for specific information. Rules allow variation in geometry and layout. The diagrams appearing in this section merely serve as examples.

## IAAF STANDARD 400 METER TRACK

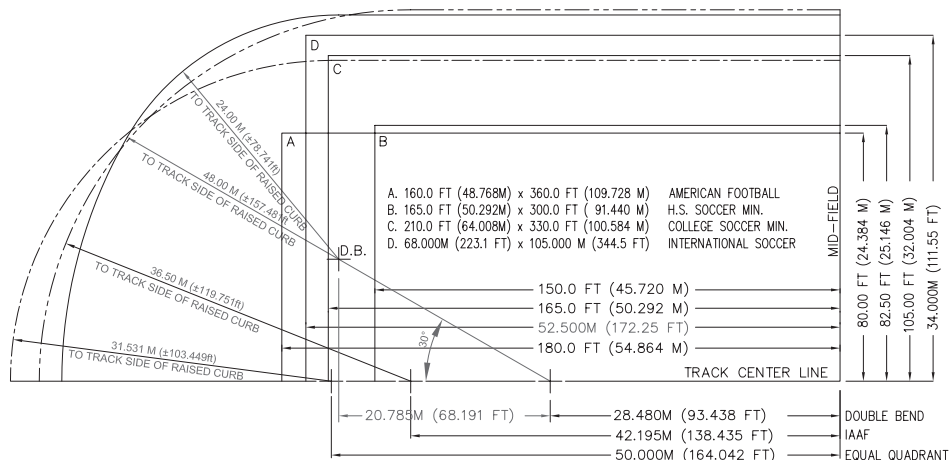


## 400 METER EVENTS

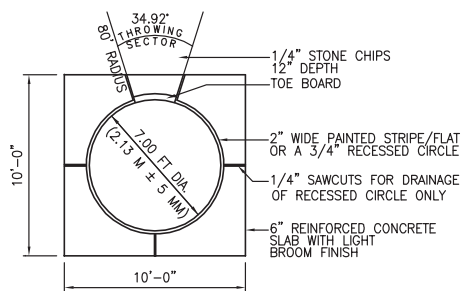


**Note:** This diagram indicates just one example of a 400 meter event layout. This specific example includes a measure line distance that is not recommended for tracks surrounding soccer, field hockey or lacrosse fields.

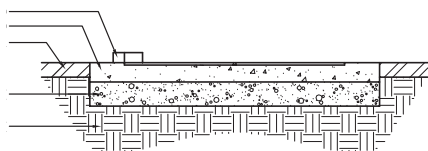
## TRACK/PLAYING FIELD CONFIGURATION



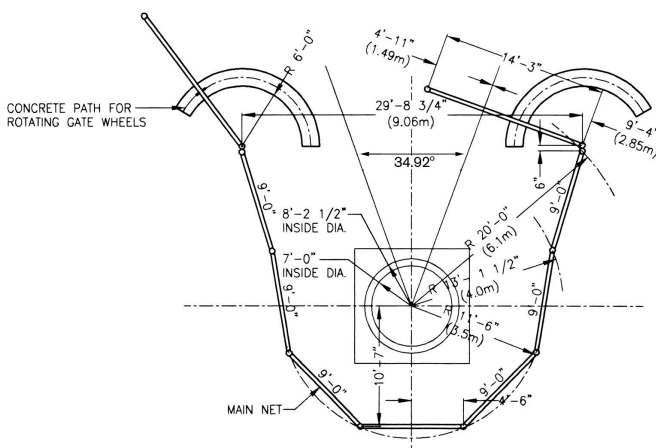
## SHOT PUT PAD



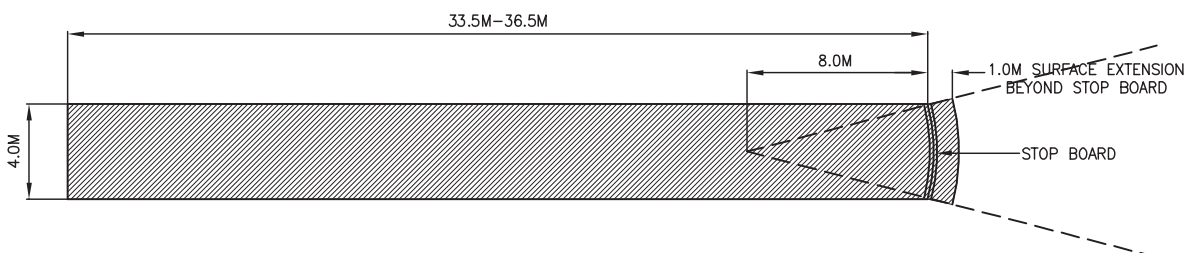
SHOT PUT PAD PLAN VIEW



## SUGGESTED DISCUS/ HAMMER CAGE

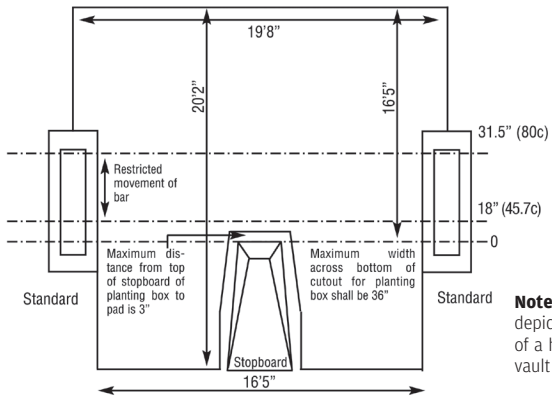


## JAVELIN RUNWAY

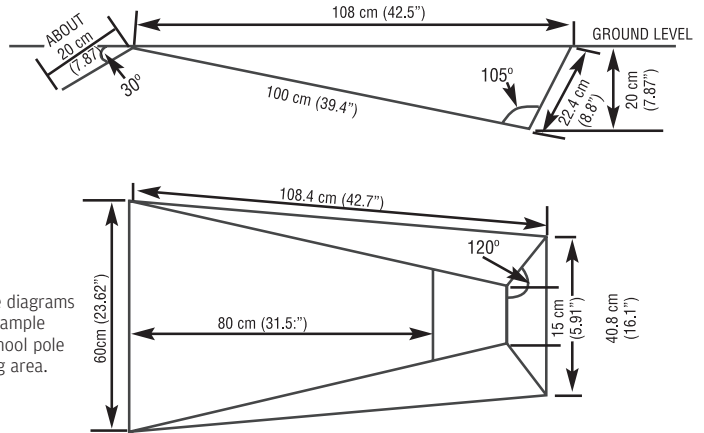


# TRACK & FIELD

## POLE VAULT LANDING AREA

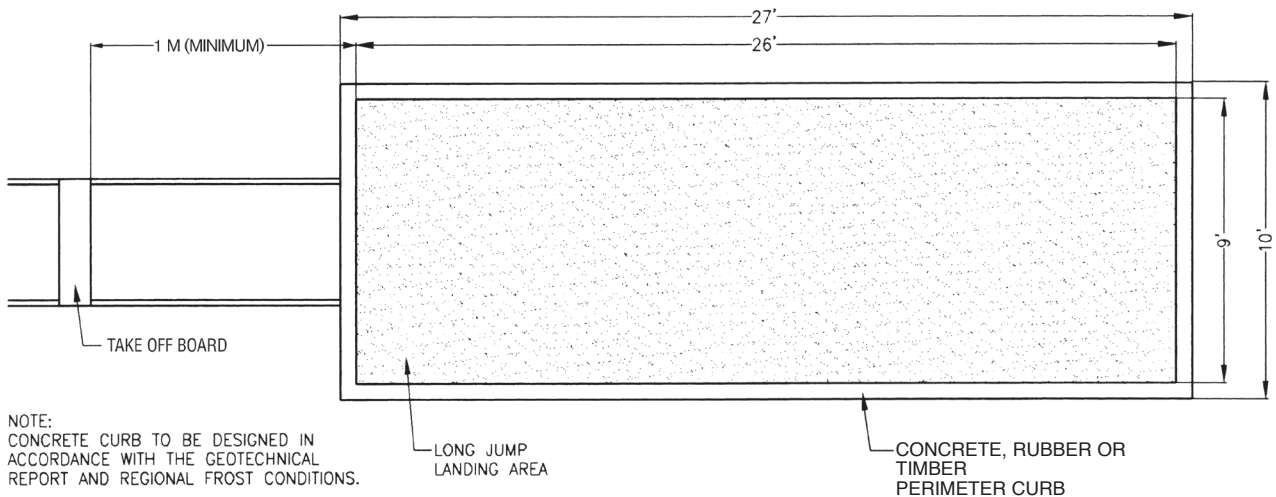


**LANDING SYSTEM:** The standards or uprights shall be set to position the crossbar from a point 18 inches (45.7c) beyond the vertical plane of the top of the stopboard, up to a maximum distance of 31.5 inches (80c) in the direction of the landing surface.



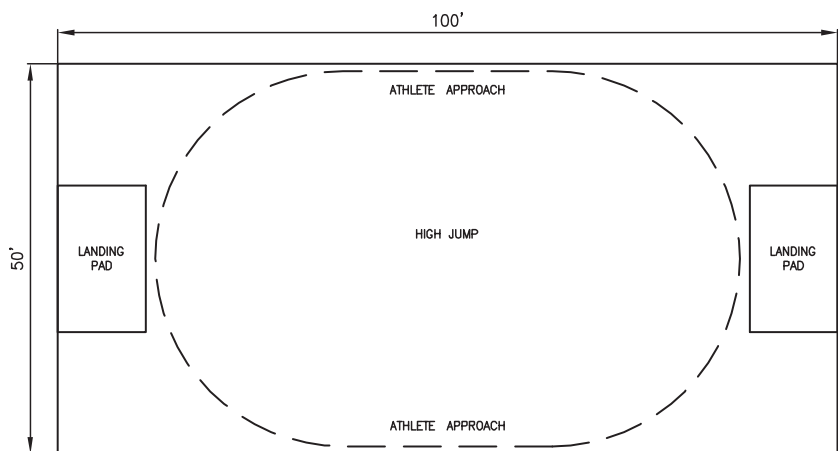
**Note:** These diagrams depict an example of a high school pole vault landing area.

## LONG JUMP/TRIPLE JUMP PIT PLAN



**NOTE:** CONCRETE CURB TO BE DESIGNED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT AND REGIONAL FROST CONDITIONS.

## HIGH JUMP DETAIL



(Pole vault landing area diagrams courtesy of the NFHS; all other diagrams courtesy of the ASBA.)

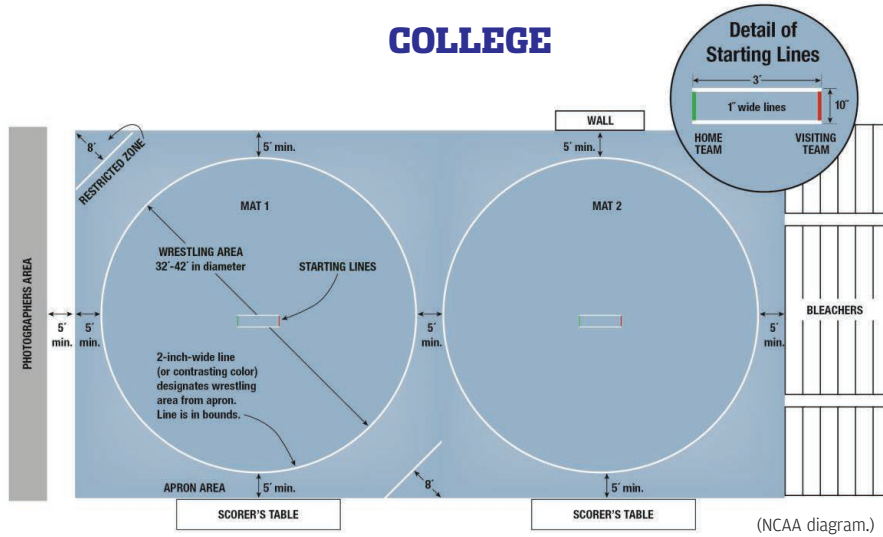
### FOR MORE INFORMATION CONTACT:

**American Sports Builders Association**  
(410) 730-9595  
www.sportsbuilders.org

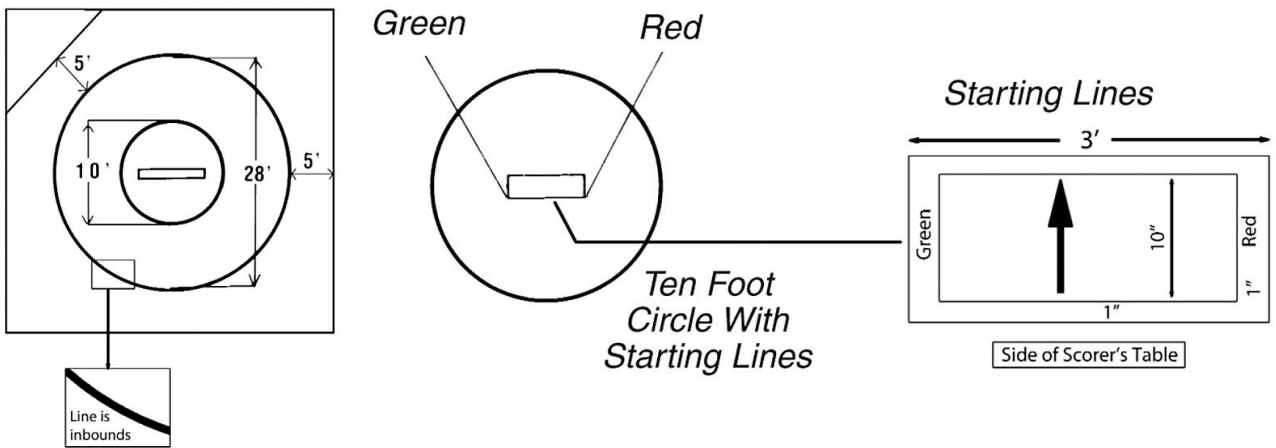
**National Federation of State High School Associations**  
(317) 972-6900  
www.nfhs.org

**USA Track & Field**  
(317) 261-0500  
www.usatf.org

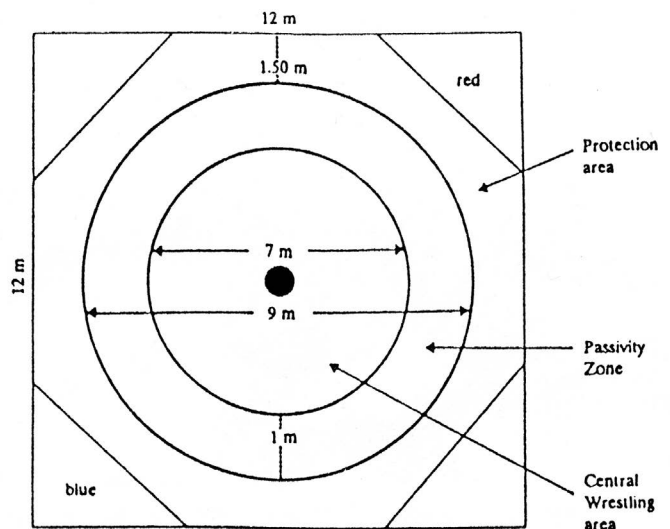
## COLLEGE



## HIGH SCHOOL



## INTERNATIONAL



(Diagrams courtesy of USA Wrestling.)

### FOR MORE INFORMATION CONTACT:

National Collegiate Athletic Association  
(317) 917-6222  
www.ncaa.org

National Federation of State High School Associations  
(317) 972-6900  
www.nfhs.org

USA Wrestling  
(719) 598-8181  
www.themat.com