PLANNING AND DESIGN OF INDOOR AND OUTDOOR SPORTS FACILITIES
FILE NO. 750–90–01
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**Notes:**
- **Area:** The area covered by the drawing index.
- **Sheet:** The specific sheet number where the index is located.
- **Title:** The title of the drawing index.
OUTDOOR SPORTS FACILITIES

SPORTS COURTS

APPENDIX A
To Develop the Vertical Planning Boundary

- All buildings have been set back 5 feet from the street line and extended back to the nearest property boundary.
- The setback and other non-building dimensions have been left consistent with 25 feet per side.
- The setback planning boundary is located off to the side.

- Dimensions have been marked on the drawings.
- Post should be positioned on the line, flush with grade on the side.
- Post and post details are indicated.

- All dimensions are indicated on the drawings.
- All notes and dimensions are indicated.

- To plan the vertical planning boundary:
  - Use the dimensions and notes provided on the drawings.
  - Ensure consistency with the setback and other dimensions provided.

- Any changes to the vertical planning boundary should be noted on the drawings.

- Additional details and notes are provided on the drawings.
DETAIL - FREE THROW LANE

RECTANGULAR BACKBOARD

AMERICAN BASKETBALL ASSOCIATION USA (ABAUSA)

SCALE: 1:50 - ALL METRIC DIMENSIONS ARE IN METERS (m)

NOTES:
- All dimensions are to inside edge unless otherwise specified.
- Allowances to be 0.05 m. wide.
- For feature details see sheet A0-3.

To Develop the Uniform Playing Border:
- All playing areas have been outlined using 20.4 mm. per inch and rounded off to the nearest even millimeter.
- Corners of the rectangular playing court and rounded off to 15 mm. per inch.
- The exterior playing border is rounded off to be divisible by 150 mm. which is the permitted metric design module.

- All feature lengths have been rounded to the nearest whole unit.
BASKETBALL COURT LAYOUT

SCALE 1:100  ALL METRIC DIMENSIONS ARE IN METERS (m)

NOTES:
- The color of the lane space marks and numerical markings shall be the same color as the boundary lines.
- The numerical markings shall be in capital letters or numerals in bold typeface.
- All dimensions are subject to minor adjustments as needed.
- For clarity, details are shown for view AA-3.

To develop the metric version:
- All regulatory dimensions have been self-measured using a 0.1 mm precision and rounded off to the nearest millimeter.
- All dimensions and other are regulatory, dimensions have been rounded off to the nearest whole number.
- The metric planning binder is marked off to a 0.1 mm, which in the proposed metric design made.
- The metric planning binder has been rounded off to the nearest millimeter and plotted to the nearest whole number.
SECTION OF GOAL HISTANDARD

To develop the graphic design, the following are recommended:

All regulatory dimensions have been set in accordance with the International Basketball Federation (FIBA) requirements.

All dimensions and other key regulatory dimensions have been hard converted using 25 mm pitch and rounded off to the nearest multiple.

The metric spacing tolerance is rounded off to the nearest multiple of 5 mm, which is the preferred metric design module.

Values spreadsheets by maintained body, equipment or playing field dimensions have been retained in whole-pound units.
ONE-WALL HANDBALL
SCALE 1:50  ALL METAL DIMENSIONS ARE IN MILLIMETERS

COURT LAYOUT

NOTE:
Court markings 1/2" wide have been painted white or yellow.
For surface details see sheet AA-5.
Walls and service wall slotted for site-specific conditions.

COURT ELEVATION

METAL PLACING BORDER
CHAIN LINK FENCE

END OF WALL
1/2" LINE, PAINTED WHITE RED OR YELLOW
COURT SURFACE
RINK LAYOUT

IECE HOCKEY

Scale: 1" = 10 Meters

NOTEs:
The rink shall be surrounded by a waist-high safety fence known as the "FENCING." Should a player fall in front of the fencing, the condition of the surface, fencing, or both shall be inspected to ensure safety.

The surface of the boards facing the ice shall be smooth and free from obstructions. All boards shall be parallel to the playing surface and shall be made of a material that will not cause injury to players.

A protective covering of safety glass or a similar material is recommended above the boards, except for the bench areas, for the protection of the spectators above them.

The corner box and the bench box shall be located above the ice and vertically behind the top of the boards.

ISOMETRIC OF GOAL

To develop the Winter Planning Board:

All outdoor dimensions have been calculated using 10,000 acres per inch, and rounded off to the nearest dimension.

A "perimeter" wall or outer boundary dimension has been laid out over the outer boundary of the building shown.

The perimeter of the building is rounded off to be stabilized by 100 feet, which is the perimeter on the design module. Points, outline, and boundaries of the building are laid out on the final proposed site.

All exterior dimensions have been rounded off to the nearest building.
NOTE
Measurements for court markings are to the outside of lines, double spaced between left and right service courts.

NOTE
All court markings are to be 2" wide.

NOTE
For all points details see specifications/annotations.

NOTE
Net height to be 3'-0" at posts and 2'-6" at center court.

ISOMETRIC SHOWING FENCE (TYPICAL WOOD CONSTRUCTION)

COURT LAYOUT

PLATFORM TENNIS

NOTE
All other dimensions are in meters (m).

NOTE
To develop the tennis playing surface:

- All dimensions have been multiplied by 20.324 to give full court and service court sizes in the scaled diagrams.

- All service and other new court dimensions have been divided by 20.324 to give full court and service court sizes in the scaled diagrams.

- The entire playing surface is marked off to be divisible by 20.324, which is the preferred service distance module.

- Dimensions marked by measuring both, relocated or playing field dimensions have been included in the scaled diagrams.

SCALE 1:100
ISOMETRIC VIEW OF NET

COURT LAYOUT

TENNIS

SCALE 1:100  ALL DIMENSIONS ARE IN METERS (m)

- All dimensions are in meters (m).
- The net is 3.55 meters (m) high at the center and 0.914 meters (m) at the posts.
- The net is suspended 1.22 meters (m) above the court surface.
- The court is surrounded by a fence or barrier, as indicated in the diagram.

For more details, refer to sheet A-G or A-G-2.
COURT LAYOUT

ISOMETRIC SHOWING NET

VOLLEYBALL
 SCALE 1:200  ALL DIMENSIONS ARE IN METERS (m)
TABLE OF DIMENSIONS

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<th>SLIDE</th>
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DIAMOND LAYOUT

SOFTBALL 12"

SCALE 1:100 ALL DIMENSIONS ARE IN FEET (ft.)

To Develop the Outfield Fencing Border:

- All regulatory dimensions have been conveniently aligned 3 ft. per period and rounded off to the nearest 6".
- All "Feet" and other non-regulatory dimensions have been hand rounded up to 2 ft. per period.
- The entire fencing border is rounded off to be divisible by 10 ft., which is the preferred metric design module.
- Distances are supplemented by a roughing box, whereoutfield or playing field dimensions have been rounded to nearest whole units.
NOTES:

1. Measurements shall be made from the inside edge of the playing boundaries.

2. All dimensions shown are in feet and when written in words, shall be in proportionate measurements in feet and inches.

3. This plan shall not be used for construction of a football field, except for planning purposes.

4. For full details of the playing field, see Sheet 6.

5. All dimensions are in feet and inches, unless otherwise noted.

6. The playing field dimensions are based on the recommended playing field dimensions for 11-man football.

7. The playing field dimensions are based on the recommended playing field dimensions for 11-man football.
NOTES
1. Measurements shown relate to the inside edge of the playing area.
   Lines at the center line and end lines are extended to a maximum of 1.2 times the line width.
   For grading and drainage details see sheet 4C-1.
2. The 1.8m (6') depth line is shown on sheet 4C-1.
3. The 2m (6.5') depth line is shown on sheet 4C-1.
4. The 2.4m (8') depth line is shown on sheet 4C-1.
5. The 2.8m (9') depth line is shown on sheet 4C-1.

PLAYING FIELD LAYOUT

FLICKERBALL
SCALE: 1:500  ALL MEASUREMENTS ARE IN MILLIMETERS (mm)

To Develop the Metric Planning Boarder:
- All regulatory dimensions have been calculated using 25.4 mm (1") imperial boarders, except the common
  measurements.
- All regulatory and other non-regulatory dimensions have been hard converted using 25.4 mm (1") boarders.
- The metric planning boarder is marked off to be divisible by 25 mm, which is the preferred metric planning module.
- Lines terminated by minimum body, permanent or playing field dimensions have been marked in 25mm units.
SECTION OF TEES (A-A)

PLAN OF TEES

RANGE LAYOUT

GOLF DRIVING RANGE

Sheet 15 of 21
OUTDOOR SPORTS FACILITIES

TRACK AND FIELD

APPENDIX C
SECTION DETAILS - THROWING CAGE

THROWING CAGE NOTES

- Horizontal and hammer trees must be made from an enclosure or cage to ensure the safety of spectators.
- The cage should be shaped in plan, the diameter being 8.0 m, and the vertical height at which the trees is made 6.5 m, while the height above 6 m.
- The vertical supports are set into the ground at a point of permanent markers and the depth of approximately 30 cm and held in position with wire ropes.
- A 27.5 cm long and 0.1 m wide from the height of the earth, made of steel, 2.5 cm in circumference with 30 cm radius is suspended from the wire, as finished framework with the base edge resting on the ground and raised above.
- The base edge should be weighted or reinforced with metal rings.

NOTES:
- Sector lines to be white and marked with cloth tape held in place with rigid pegs or blocks.
- Frame using detailed specifications of hammer throw circle and "Sector of Shot Put" about 45°.

HAMMER THROW CIRCLE

HAMMER THROW

SCALE 1:100  ALL METRIC DIMENSIONS ARE IN METERS (m)
JAVELIN THROW LAYOUT

ISOMETRIC DETAIL - JAVELIN THROW FOUL BOARD

JAVELIN THROW

SCALE 1:400
ALL DIMENSIONS ARE IN MILLIMETERS

NOTES:
- Sector lines to be shown, 5mm wide and marked with short dashes held in place with countersunk nails or chalk.
- Runway strip to be either hand or machine applied.
- For surveying details see sheet AC-2.
- For sector flag details see sheet AC-5.
LONG JUMP AND TRIPLE JUMP LAYOUT

SECTION - LANDING ZONE

SECTION - TAKEOFF BOARD FOR LONG JUMP AND TRIPLE JUMP

NOTES

1. The sides of the takeoff board nearest the landing pad shall be covered with a protective layer.
2. The construction and maintenance of the runway shall be extended beyond the takeoff board to the nearest edge of the building pad.

LONG JUMP AND TRIPLE JUMP

SCALE: 1:20

ALL MEASUREMENTS ARE IN MILLIMETERS
POLE VAULT LAYOUT

POLE VAULT BOX

SECTION - POLE VAULT BOX

ISOMETRIC SHOWING JUMPING PIT, STANDARDS AND CROSSBAR

POLE VAULT

DETAIL - CROSSBAR SUPPORT

NOTES:

Any style of shafts or standards may be used provided they are rigid and supported by a base not to exceed 102 mm in height above the ground.

The concrete slabs of various other suitable material and dimension may be used in sections with the vault.

For runway surfacing details see sheet 0-5.
ISOMETRIC SHOWING JUMPING PIT, STANDARDS AND CROSSBAR

HIGH JUMP LAYOUT

CROSSBAR SUPPORT DETAILS

HIGH JUMP

SCALE 1:200  ALL METRIC DIMENSIONS ARE IN METERS
400-METER RUNNING TRACK WITH STEEPLECHASE

HURDLE

WATER JUMP

NOTE:
The 3000 meter steeplechase shall have 18 hurdles and 5 water jumps. The 3000 meter steeplechase shall have 18 hurdles and 5 water jumps. There shall be 4 hurdles and 1 water jump to the east and 4 hurdles and 1 water jump to the west. The water jump shall be the same jump to the east and west. The water jump shall be the same jump to the east and west.

The 1500 meter steeplechase shall have 9 hurdles and 2 water jumps. There shall be 2 hurdles and 1 water jump to the east and 2 hurdles and 1 water jump to the west. The water jump shall be the same jump to the east and west.
OUTDOOR SPORTS FACILITIES

MULTIPLE SPORTS COMPLEXES

APPENDIX D
COMBINATION BASKETBALL - VOLLEYBALL COURT COMPLEX

SCALE: 1/100
ALL DIMENSIONS ARE IN METERS (m)

NOTE:
- For removable volleyball post details see Sheet 25-1.
- For surface details see Sheet 25-5.

To Develop the Volleyball Planning Border:
- All proposed dimensions have been made consistent within 1/10 of an inch and rounded off to the nearest inch.
- All proposed areas are rectangular dimensions
- The exterior court boundary is drawn using a 2.5 mm pen width.
- The proposed planning border is rounded off to be divisible by 250 m, which is the proposed court design module.
- Areas notated by surveying symbol, significant in planning and elevation dimensions have been recorded in parentheses.
COMBINATION TENNIS, VOLLEYBALL, BASKETBALL, BADMINTON COURT COMPLEX

SCALE 1:100 - ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE INDICATED.

NOTES:

- All indicated court dimensions and details are shown.
- A-1 (Basketball), A-2 (Volleyball), A-3 (Tennis) and sheet A-4-9 (Full Site). For surface details, see sheet A-5.
- All “Hyphenated” and related keyway symbols show typical elements and dimensions.
- The metric planning scale is used as a guide for the design. The metric planning scale is used as a guide for the design. It is not intended to be followed strictly.
COURT IDENTIFICATION LEGEND:
- Basketball
- Soccer
- Tennis
- Volleyball

Color key for painted court lines:
Basketball: Light Green
Soccer: White
Tennis: Light Blue
Volleyball: Yellow
Shadefield: Black

NOTES:
- Printed court dimensions and details see shop 4D-30Basketball, sheet 4D-30Soccer/Snod/Snod/Snod/ 4D-30Tennis, and sheet 4D-30Volleyball.
- The areas in which shrubbery courts are located must be paved or an access to the tennis court(s) or not the shrubbery courts are provided to a modified drainage scheme must be used if they are installed.
- To accommodate regulation-sized basketball courts, paved area must be increased to a minimum of 107 x 50 mi.
- For remaining net post details see sheet 4D-2.
- For drainage details see sheet 4D-4.
- For surfacing details see sheet 4D-5.

MULTIPLE SPORTS COURT
SCALE 1/100
ALL METRIC DIMENSIONS ARE IN METERS

To Develop the Specific Planning Criteria:
- Autocad drawing has been self created
- 30.5 cm per inch, rounded off to the nearest dimension
- All external dimensions are equal to the building
- All external dimensions are equal to the building
- The architectural plan is scaled off to be divisible by 25.4 cm, which is the preferred metric size module
- Layers with the dashed line have been removed for clarity
- All dimensions have been rounded in decimal places.
MULTIPLE BASEBALL, SOFTBALL AND FOOTBALL FIELDS

COMBINATION SPORTS FIELDS
SCALE 1:500  ALL METRIC DIMENSIONS ARE IN METERS AND
OUTDOOR SPORTS FACILITIES

RECREATIONAL SHOOTING RANGES

APPENDIX E
OUTDOOR SPORTS FACILITIES

MOTOR SPORTS

APPENDIX F
GO KART OVAL TRACK LAYOUT

OVAL TRACK LAYOUT DATA

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NOTES:
See sheet DF-2 for SECTION A-A.

[Brief Kart Federation recommends a track length of at least 200,000 mm for national competitions.]

[Brief Kart Federation recommends placing 500 mm gaps from fences and judges stand.

Track length measurements should align along the inside edge of track.

A minimum grade of 0.5% is permitted in direction of travel.

Track, pit, and spectator areas shall be separated by a fence.

The layout in this sheet and in sheet A-F is suggested. For more layouts and safety information, contact the Kart Federation.
COMBINATION 402 m ROAD TRACK
AND 201 m OVAL TRACK LAYOUT

GO KART ROAD TRACK
SCALE 1:500, ALL DIMENSIONS IN METERS (M)
OUTDOOR SPORTS FACILITIES

CONSTRUCTION DETAILS

APPENDIX G
PADDLE TENNIS NET AND POST DETAILS

RADMINTON NET AND POST DETAILS

ANCHOR FOOTING

VOLLEYBALL NET AND POST DETAILS

TENNIS NET AND POST DETAILS

FIXED NETS POSTS

SCALE 1:50  ALL METRIC DIMENSIONS ARE IN METERS
REMOVABLE POST DETAIL

SECTION
Opening in pipe sleeve to be filled with deck joint when post is removed.
If posts are to be painted, they shall be inside with rust proofed and painted.
with a good exterior material.

REMOVABLE NET POSTS
SCALE 1/4" = 1'-0" ALL VERTICAL DIMENSIONS ARE IN VERTICAL FORM
DRAINAGE DIAGRAMS - SPORTS COURTS

SUBSOIL DRAINAGE (RECTANGULAR SPORTS FIELDS)

PREFERRED GRADING (RECTANGULAR SPORTS FIELDS)

SECTION - PERIMETER DRAIN (SPORTS COURTS)

SECTION - SUBSOIL DRAIN

PREFERABLE GRADING (BASEBALL AND SOFTBALL DIAMONDS)

TYPICAL GRADING AND DRAINAGE DETAILS

SCALE: 1:100 - ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED.
TYPICAL SECTION - NATURAL TURF

TYPICAL SECTION - SAND CLAY

TYPICAL PLAYING SURFACES

Scale 1:500 - All dimensions are in millimeters (mm)