TYPE I

Suitable for bicycle and general pedestrian use. 8' is the required minimum width for bikeways and 6' the required minimum for walkways. Wider sections may be required in heavily traveled areas.

Where soil is well drained and compactable, the stone base may be eliminated and this section replaced by a 3 1/2" full-depth asphalt section. Construction of this substitute section is subject to the approval of the Director.

TYPE II

Suitable for equestrian use, hiking and all-terrain (mountain) bicycle use in gently sloped topography. Susceptible to washout and sheet erosion on grades greater than 5%.

Depth of stone base depends on soil type, stability and drainage.
2' graded trail
shoulder both sides

\[ 9' - 0" - 14' - 0" \]

2'-0"

\[ 5' - 0" - 10' - 0" \]

2'-0"

\[ 2' - 0" \]

Meet finished grade
flush both sides

Slope 12:1 min.
2:1 max. both sides

- \[ \text{Compacted subgrade} \]

---compacted subgrade

**TYPE IV**

Suitable for general use. Suitable for bikeways if the width is greater than or equal to 8 FT. Acceptable for VDOT maintenance.

Subgrade for all sidewalks shall be compacted to minimum 95% density at optimum moisture to full width of R/W or easement in accordance with AASHTO T99.

---

**TYPE VI**

Suitable for equestrian use, hiking and all-terrain (mountain) bicycle use in low density areas. Construction of this selection is subject to the approval of the Director.

Alignment of this trail should be such that there is minimum ground disturbance during clearing.
2’ graded trail
shoulder both sides

10’-0” - 12’-0”

2’-0”

6’-0” - 8’-0”

2’-0”

Meet finished grade
flush both sides

Slope 12:1 min.
2:1 max. both
sides

3”

4” min.

7” min.

Compacted subgrade

TYPE VII

Suitable for equestrian use and hiking.

Depth of stone base dependent on soil type, stability and drainage. Chip walks require edging as determined by the site inspector.
Shoulder is firm with no drop off. No substantial slope for 2'.

DIMENSION CODE
B = Bicycle
M = Maneuvering clearance
E = Edge clearance (shoulder)
4–3" red reflectors. See detail on Plate 8–8.

1/2" dia. fabric core wire rope

3/8" dia. X 6" eye bolts if wood posts

3/8" dia. X 2" eye bolts if steel posts

Trail type & size varies (see plan)

6" X 6" X 13/16" thick steel posts with 3/16" steel cap

3/8" dia. X 2" eye bolt if steel posts

9'-6"

2'-8"

2'-8"

1/4"=1'

Pitch surface

#4 Rebar welded to post

NOTES:

If wood posts, countersink nut and washer on 3/8" dia. X 6" eye bolts. Mount 3" red reflectors with 1/2" cable clamps; 2 each side of wire rope. Cable loop formed with 2–1/2" cable clamps; 3" spacing – peen ends of all exposed threads.

Cable loop fastened to eye bolt with lock supplied by FCPA; tighten nut inside post and tack weld post to inside of post before welding top.

3/16" steel cap must be plate welded on top – smooth all rough edges and finish with 1 shop or prime coat and 3 field coats using an alkyd paint system. Finish coat is to be flat black, all surfaces of all steel posts.
2-3" dia. reflectors. See detail on Plate 8-8.

1/2" dia. fabric core wire rope

1" chamfer

3/8" dia. X 6" eye bolts

Access road/Trail type & size varies (see plan)

Slope surface to drain

6" x 6" post

3" X 9" silver reflective aluminum markers – two per post

Install posts before paving

Finish grade

Undisturbed earth

Compacted backfill

#4 rebar

NOTES:

Countersink nut and washer on 3/8" dia. X 6" eye bolts. Peen end of all exposed threads.

Mount 3" red reflectors with 1/2" cable clamps.

Cable loop formed with two - 1/2" cable clamps; 3" spacing. Peen ends of all exposed threads.

Cable loop fastened to eye bolt with lock supplied by the maintaining authority.

W = 9'-6" for trails; 15' for access roads.
Cable clamp welded to backing plate between center and top edge of plate.

Weld cable clamp to backing plate.

Galvanized cable clamp.

1/2" dia. fabric core wire rope.

3 1/2" dia. X 1/8" galvanized steel backing plate.

3" red reflector with galvanized center screw mount.

Ref. Sec. 8-0202.1B, 8-0203.1B, 8-0203.2E, 8-0203.2G

Rev. 1-00, 2011 Reprint, 2018 Reprint

RED REFLECTOR ON CABLE

PLATE NO. 8-8
1" chamfer

6" x 6" timber, 5' OC

1/2" crown

Finished grade

Class "B" concrete footing

#4 rebar

6" min. VDOT size #68 crushed aggregate
1" chamfer

6" X 6" timber, 5' 0C

1/2" crown

Finished grade

Compacted backfill

Undisturbed earth

#4 rebar
Note: Bollard to be primed and painted orange

3/16" cap - welded 4 sides

Reflective tape—silver or white (all sides)

4" X 6" post - 3/16" Tube steel

Steel hasp (see detail on Plate 12-8)

1" square solid steel, welded in place

Slope concrete to drain away from post

Trail type varies (see plan)

Finished grade

Class "B" Concrete footing

12" section #6 steel rebar—welded in place through sleeve

Compacted subgrade
NOTE: Lock and hasp to be placed facing park or away from motor vehicle traffic.

DETAIL - STEEL HASP

1" Square, solid steel, welded in Place (2 sides)

4" X 6" Post - 3/16" thick tube steel

POST - SLEEVE CONNECTION

Ref. Sec. 8-0202.1B, 8-0203.1B, 8-0203.2E, 8-0203.2G
Rev. 1-00, 2011 Reprint, 2018 Reprint

POST-SLEEVE CONNECTION

PLATE NO. STD. NO.
12-8
Varies according to stream width

Top of stream bank

3/4" Plain steel dowel 18" long 12" OC in center of slab (typ. both sides)

Top of stream bank

Varies to 15% max. (typ. both sides)

Concrete ramp

Riprap revetment VDOT Class 1, disturbed area

3/4" Plain steel dowel 18" long 12" OC in center of slab (both sides)

Concrete ramp

Riprap revetment VDOT Class 1 all sides

Rough broom finish perpendicular to slope (both sides)

Stepping block (See detail below and Plate 14-8)

Edge of turndown

Trail as designed

Riprap revetment VDOT Class 1, disturbed area

Varies to meet site conditions

Top of stream bank

Finished grade

Varies to 15% max. (both sides)

6" X 6" W7.5 X W7.5

Turndowns beyond

SECTION A–A

FAIR WEATHER STREAM CROSSING

PLATE NO. 13–8

STD. NO.
SECTION B–B
(From Plate 13–8)

NOTES:
1. Riprap revetment must be placed or installed in accordance with Section 414 of VDOT Road and Bridge Specifications. Minimum depth of riprap revetment may not be less than 18".

2. Mid-channel concrete section must be poured in 2 separate sections to provide a continuous flow of water. Provision for dewatering each poured section is necessary to attain the required strength of concrete.

3. All disturbed areas must be seeded.

SECTION C–C
(From Plate 13–8)
Notes:

1. Handrail to be primed with 1 coat of Koppers 622 rust penetrating primer, or approved equal, then painted with 2 coats of Duron Rethane Modified Black, or approved equal. Paint to be applied at min. 1.5 mil. per coat.

2. Handrail on ramps to pedestrian decks must be painted to match the bridge structure.
LITTLE LEAGUE INFIELD

Ref. Sec. 2-1004.2

Rev. 1-00, 2011 Reprint, 2018 Reprint

LITTLE LEAGUE INFIELD

PLATE NO. 17-8
STD. NO. PA-5
LEGEND

--- 1st preference
----- 2nd preference

Infield soil mix

60% topsoil (red)
15% sand
25% Turface Or Approved Equal

Area required

Baseball & Babe Ruth – 232,500 ft² (5.4 Ac.)
Slow Pitch Softball – 123,500 ft² (2.8 Ac.)
Fast Pitch Softball – 66,323 ft² (1.5 Ac.)
Little League – 66,323 ft² (1.5 Ac.)

<table>
<thead>
<tr>
<th>Length of Baseline</th>
<th>Little League–U13</th>
<th>Babe Ruth/Baseball</th>
<th>Fast Pitch Softball</th>
<th>Slow Pitch Softball</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pitching distance</td>
<td>60'</td>
<td>60'-6&quot;</td>
<td>35'-12'Under/40'-others</td>
<td>60'</td>
</tr>
<tr>
<td>Batter's Box</td>
<td>3' x 8'</td>
<td>4' x 8'</td>
<td>3' x 7'</td>
<td>3' x 7'</td>
</tr>
<tr>
<td>Rise of Pitching Mound</td>
<td>6&quot;</td>
<td>10&quot;</td>
<td>none</td>
<td>none</td>
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<tr>
<td>Mound Diameter</td>
<td>10'</td>
<td>18'</td>
<td>18'</td>
<td>none</td>
</tr>
<tr>
<td>Base Size</td>
<td>15&quot; x 15&quot; x 2-1/4&quot;</td>
<td>15&quot; x 15&quot; x 3&quot;</td>
<td>15&quot; x 15&quot; x 3&quot;</td>
<td>15&quot; x 15&quot; x 3&quot;</td>
</tr>
<tr>
<td>Coachers Box</td>
<td>4' x 8'</td>
<td>10' x 20'</td>
<td>3' x 15'</td>
<td>3' x 15'</td>
</tr>
<tr>
<td>Home Plate to Backstop</td>
<td>25'</td>
<td>60'</td>
<td>25'</td>
<td>25'</td>
</tr>
<tr>
<td>Infield Type</td>
<td>Turf</td>
<td>Turf</td>
<td>Skinned</td>
<td>Skinned</td>
</tr>
<tr>
<td>L. Field Distance</td>
<td>200'</td>
<td>310'</td>
<td>200'</td>
<td>300'</td>
</tr>
<tr>
<td>C. Field Distance</td>
<td>200'</td>
<td>360'</td>
<td>200'</td>
<td>300'</td>
</tr>
<tr>
<td>R. Field Distance</td>
<td>200'</td>
<td>310'</td>
<td>200'</td>
<td>300'</td>
</tr>
</tbody>
</table>
Cj = Contraction joint
Ej = Expansion joint

BATTER WARMUP CAGE
( FOR LITTLE LEAGUE AND FAST PITCH SOFTBALL )

See backstop details

Non-reinforced concrete

4' sideline fence
(see detail)

24" mow strip
(see detail)

When required
BATTER WARMUP CAGE
(typical, each end)
Cap ends of pipe

1-5/8" dia. Standard pipe

Chain link mesh on field side of post

1 5/8" dia. standard pipe (typ.)

3" dia. standard pipe (typ.)

1/4" dia. hole for drainage

Slope 1/4":1'

Finished grade

Compacted subgrade

VDOT Class "B" concrete footing

5" VDOT Class "A" concrete pad

Slope varies (see site plan)

Compacted subgrade

Note: All posts must be set plumb.
NOTES:
1. Horizontal & diagonal braces must occur in both directions at corner posts.
2. All posts must be set plumb.
3. Sideline line post must be 2" OD.
4. Line posts must be spaced equidistant.
5. Fabric, for sideline fence & gate must be 4' for Little League and 5' for softball and baseball.
6. Fabric must have knuckled selvage top & bottom.
7. Dugout fence fabric must be on inside/field side of posts.
8. Gate must swing away from field toward the dugout.
1 5/8" OD galvanized steel pipe top rail

2" OD galvanized steel line post 10' OC

1/4":1' Slope

Tension wire with hog ring at 24" OC

Compacted bluestone dust

Post cap

#9 gauge 2" mesh alum. coated fabric, on field side of post

Finish grade

Varies (see notes)

Mow strip (see detail)

Concrete footing Class "B"

6 mil. black polyethylene 3 sides of trench

NOTES:

1. Terminal post must be 2 1/2" OD.

2. This detail shows mow strip without warning track.

3. All posts must be set plumb.

4. Fabric must have knuckled selvage top & bottom.

5. Little League outfield fence must be 6' high.

6. Babe Ruth and softball outfield fence must be 8' high.
Playing field

Finish grade

Outfield fence post
Slope 1/4":1'
15' for softball & baseball
10' for Little League

Warning track
2"
4"

Compacted bluestone dust
Compacted VDOT 21A
6 mil. black polyethylene blanket liner cut off at top of 21A sliced to allow drainage.
Concrete footing (see outfield fence detail)

WARNING TRACK -SECTION

Slope 1/4"to 1'
Finish grade

Compacted bluestone dust
Compacted VDOT 21A
6 mil. black polyethylene blanket liner cut off at top of 21A sliced to allow drainage
Post footing beyond (see fence detail)

MOW STRIP SECTION

Ref. Sec. 2-1004.2
Rev. 1-00, 2011 Reprint, 2018 Reprint

WARNING TRACK & MOW STRIP SECTIONS

<table>
<thead>
<tr>
<th>PLATE NO.</th>
<th>STD. NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>26-8</td>
<td>PA-14</td>
</tr>
</tbody>
</table>
Note: Contractor to supply nets, post, and center straps per specs.

- Center strap, net 3'-0" high at center
- Top of footing 18" x 3' in plan
- 3'-0"
- 3'-6"
- 1/2" dia. x 10" rod welded
- Base of footing 18" x 4' in plan
- Top of footing 18" x 9' in plan
- Top of footing 18" x 9' in plan
- 1/2" dia. x 10" rod welded
- 1'-0"
- 1'-6"
- 6'-0"
- 9'-0"
- 2 1/2"
- 4"
- Concrete
- Slope surface away from net post
- See court paving detail
- Base of footing 18" x 9' in plan

Ref. Sec. 2-1004.2

TENNIS COURT NET AND CROSS SECTION DETAILS

PLATE NO. 28-8
STD. NO. PA-16
2" paint line
colored coat
Filler coats
1" surface course
(VDOT Type S-5 Asphalt)
1 1/2" leveling course
(VDOT Type S-5 Asphalt)
Primer
4" base course
(VDOT 21A Aggregate)
Subbase course (VDOT 209 aggregate as required)
Filter fabric as required
Compacted subgrade
Ref. Sec. 2–1004.2

TENNIS PRACTICE COURT LAYOUT

PLATE NO. 31–8

Rev. 1–00, 2011 Reprint, 2018 Reprint
Fence to be installed per tennis court fencing specification

Fence post cast into wall on 10' centers

Color coat all exposed masonry surfaces per manufacturer’s recommendations, color to be shown on plan

#5 x 6'-9" long at 24" OC

Joints to have smooth finish (flush)

8" CMU

Asphalt pavement and color coat as specified for tennis courts

#5 bars at 24" OC measured along centerline of wall, alternate horizontal leg left and right, vertical leg of dowel bar to be 7'-4" long.

NOTES:

1. Install #9 wire joint reinforcing every 16” full height of wall in mortar joint.
2. Fill CMU cavity with 3000 PSI portland cement concrete. Do not use masonry mortar.
3. Reinforcing steel ASTM A615 Grade 40.
4. Concrete: 3000 PSI AE Concrete.
5. Vertical playing surfaces are to be plumb and true.
Fabric flush against concrete

11 gauge 1 3/4 mesh vinyl coated chain link fabric

Colorcoat all exposed masonry surfaces per manufacturer's specifications

2" wide white line

Court pavement surface

CMU below grade

Concrete footing

Existing grade

1 5/8" OD vinyl coated top rails

2 1/2" OD posts with caps

Tension wire

Colorcoat

ELEVATION

TENNIS COURT PRACTICE WALL

Ref. Sec. 2-1004.2
Rev. 1-00, 2011
Reprint, 2018 Reprint

FAIRFAX COUNTY PUBLIC FACILITIES MANUAL

PLATE NO. STD. NO.
33-8
Post cap
1 5/8" OD vinyl coated top rail
2 1/2" OD vinyl coated fence post
See detail on Plate 35-8.

Sideline fence fabric
3/16" x 3/4" vinyl coated stretcher bar
#11 gauge 1 3/4" mesh vinyl coated fabric
End of face wall

Rest post on asphalt
Finished grade
See fence post detail

Ref. Sec. 2-1004.2, Plate 35-8
Rev. 1-00, 2011 Reprint, 2018 Reprint
Cut a hole for band to fit through block. Grout hole as needed for neat appearance.

1/8" x 2" Malleable galvanized steel—band vinyl coated

2 1/2" OD vinyl coated line post

8" x 8" x 16" CMU with squared end, cavity filled with 3000 PSI concrete

Galvanized steel 5/8" bolt W/2 washers, lock washer and nut
2 1/2" OD fence post
Fence fabric to be flush against concrete
Typical along entire top of wall
Standard 8" x 8" x 16" CMU cavity filled with 3000 PSI concrete
Masonry joint struck flush typical

Ref. Sec. 2-1004.2
Rev. 1–00, 2011 Reprint, 2018 Reprint
NOTE:
When 2 or more modular units occur, only the 2 end courts will have 3' paved out of bound area.
### DRAINAGE

**Legend**

-—— 1st preference
-—— 2nd preference

---

### ALTERNATE COURT SIZES

<table>
<thead>
<tr>
<th>COURT TYPE</th>
<th>DIMENSIONS (ft)</th>
<th>USE AREAS (ft²)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>BASKETBALL</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Junior high</td>
<td>74 x 42</td>
<td>90 x 58 (5,220)</td>
</tr>
<tr>
<td>High school</td>
<td>84 x 50</td>
<td>100 x 66 (6,600)</td>
</tr>
<tr>
<td>College</td>
<td>94 x 50</td>
<td>110 x 66 (7,260)</td>
</tr>
<tr>
<td></td>
<td>60 x 30</td>
<td>70 x 40 (2,800)</td>
</tr>
<tr>
<td><strong>VOLLEYBALL</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Single</td>
<td>78 x 36</td>
<td>133 x 73 (9,700)</td>
</tr>
<tr>
<td>Double</td>
<td>78 x 84</td>
<td>133 x 121 (16,100)</td>
</tr>
<tr>
<td>Practice</td>
<td>78 x 20</td>
<td>113 x 39 (4,400)</td>
</tr>
<tr>
<td><strong>TENNIS</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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Ref. Sec. 2-1004.2

Rev. 1–00, 2011 Reprint, 2018 Reprint

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**COURTS DESIGN INFORMATION**

<table>
<thead>
<tr>
<th>PLATE NO.</th>
<th>STD. NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>38–8</td>
<td></td>
</tr>
</tbody>
</table>
NOTE: Basketball dimensions are to inside of 2" paint line. Volleyball dimensions are to outside of 2" paint line.
Backstop by Sportsplay products
Cat No 541-637

Double-strength "Super goal" with steel chain net by Sportsplay Products

Asphalt must cover top of footing

Concrete footing

2" White paint line

Concrete footing

5'-3"
6'
1'-6"
5'-3"
FAIRFAX COUNTY PUBLIC FACILITIES MANUAL

Overrun area 20’ min. each field

Corner flag

Flag

Side line

Restrainting line

Penalty kick mark

Goal

Area

30' min. (100 yds)
360' max. (120yds)

Notes:

All dimensions are to the inside edge of lines.

All lines must be 2" wide and marked with a white non-toxic material which is not injurious to the eyes or skin.

Overrun area may slope up to 5%.

DRAINAGE

Legend

---------- 1st preference

----------- 2nd preference

Round knob

Cloth flag

1/2" dia.
flexible pole

Grade

FLAG DETAIL

ORIENTATION

SOCCER DESIGN INFORMATION

PLATE NO. 41-8

STD. NO. PA-27