**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.
TYPE IV

Suitable for general use. Unsuitable for bikeways. 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.
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'.
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)

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

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.

BACK ELEVATION

SIDE ELEVATION

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

STD. NO.
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' OC

1/2" crown

Finished grade

Compacted backfill

Undisturbed earth

#4 rebar

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

BOLLARD—DIRECT BURY

10-8
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 12-6)

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.

POST - SLEEVE CONNECTION

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

Rev. 1-00, 2011 Reprint, 2016 Reprint

PLATE NO. 12-8
SECTION A–A

FAIR WEATHER STREAM CROSSING

PLATE NO. 13–8

Ref. Sec. 6–0202.1B, 6–0203.1B, 8–0203.2G, Plate 14–8
Rev. 1–00, 2011 Reprint, 2018 Reprint
FAIRFAX COUNTY PUBLIC FACILITIES MANUAL

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)

FAIR WEATHER STREAM CROSSING

Ref. Sec. 8—0202.1B, 8—0203.2G, Plate 13-8
Rev. 1—00, 2011 Reprint, 2018 Reprint
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.
TOT STATIONARY AND SLIDING DEVICES

Stationary or sliding device
Use area

TOT REVOLVING DEVICES

Revolving device
Use area

TYPICAL EQUIPMENT FOOTING

Typical wood equipment
Typical metal equipment
Finished surface
8" minimum soft surface material over ground
Optional underdrain system
Concrete footing per manufacturer

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

TOT LOT EQUIPMENT LAYOUT

PLATE NO. 15–8
Finished surface

SIDE VIEW

Typical tot swing
Use area

PLAN VIEW

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

TOT SWINGING DEVICES LAYOUT

PLATE NO. | STD. NO.
---------|-------
16-8     |       
BASEBALL & BABE RUTH INFIELD

Ref. Sec. 2–1004.2
Rev. 1–00, 9–01, 2011 Reprint, 2018 Reprint

PLATE NO. STD. NO.
18–8 PA–6
FAST PITCH & SLOW PITCH SOFTBALL INFIELD

**Fast Pitch Softball**
- Length of Baseline: 60'
- Pitching distance: 35'-12' & Under / 40' - others
- Batter's Box: 3' x 7'
- Rise of Pitching Mound: none
- Mound Diameter: 10'
- Base Size: 15" x 15" x 3" x 3" x 3" x 3" x 3" x 3" x 3"
- Coaches Box: 3' x 15'
- Home Plate to Backstop: 25'
- Infield Type: Skinned

**Slow Pitch Softball**
- Length of Baseline: 65'
- Pitching distance: 50'
- Batter's Box: 3' x 7'
- Rise of Pitching Mound: none
- Mound Diameter: none
- Base Size: 15" x 15" x 3" x 3" x 3" x 3" x 3" x 3" x 3"
- Coaches Box: 3' x 15'
- Home Plate to Backstop: 25'
- Infield Type: Skinned

**Dimensions**
- \( x = 92' \) for a 65' baseline
- \( x = 84' 10" \) for a 60' baseline
- \( y = 45' \) for a 40' pitching distance
- \( y = 42' \) for a 50' pitching distance
- \( z = 60' \) for a 40' pitching distance
- \( z = 65' \) for a 50' pitching distance
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 ft$^2$ (5.4 Ac.)
Slow Pitch Softball – 123,500 ft$^2$ (2.8 Ac.)
Fast Pitch Softball – 66,323 ft$^2$ (1.5 Ac.)
Little League – 66,323 ft$^2$ (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>
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</thead>
<tbody>
<tr>
<td>60</td>
<td>60</td>
<td>60</td>
<td>60</td>
<td>60</td>
</tr>
<tr>
<td>Pitching distance</td>
<td>40'</td>
<td>60'–60'</td>
<td>35'–40'</td>
<td>50'</td>
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<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'</td>
<td>10'</td>
<td>none</td>
<td>none</td>
</tr>
<tr>
<td>Mound Diameter</td>
<td>10'</td>
<td>15'</td>
<td>none</td>
<td>none</td>
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<tr>
<td>Base Size</td>
<td>15' x 15' x 2–1/4''</td>
<td>15' x 15' x 3''</td>
<td>15' x 15' x 3''</td>
<td>15' x 15' x 3''</td>
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<tr>
<td>Coaches Box</td>
<td>4' x 8'</td>
<td>10' x 20'</td>
<td>3' x 15'</td>
<td>3' x 15'</td>
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<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>
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<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>
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<td>300'</td>
<td>200'</td>
<td>300'</td>
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<tr>
<td>R. Field Distance</td>
<td>200'</td>
<td>310'</td>
<td>200'</td>
<td>300'</td>
</tr>
</tbody>
</table>

Ref. Sec. 2-1004.2

BALLFIELDS DESIGN INFORMATION

PLATE NO. 20–8
STD. NO. PA–8

Rev. 1–00, 8–01, 2011
Reprint, 2018 Reprint
BACKSTOP - PLAN

- 9 gauge 2" mesh aluminum coated fabric on field side of posts

BACKSTOP - ELEVATION

Ref. Sec. 2-1004.2

REV. 1-00, 2011 Reprint, 2018 Reprint

BACKSTOP PLAN & ELEVATION

<table>
<thead>
<tr>
<th>PLATE NO.</th>
<th>STD. NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>22-8</td>
<td>PA-10</td>
</tr>
</tbody>
</table>
Note: All posts must be set plumb.

Cap ends of pipe

7'-3"

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

Ref. Sec. 2-1004.2

Rev. 1-00, 2011 Reprint, 2018 Reprint

BACKSTOP POST
& FOOTING

PLATE NO. 23-8
STD. NO. PA-11
**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

Tension wire with hog ring at 24" OC

1/4":1' Slope

Compacted bluestone dust

Post cap

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

Finish grade

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.
Outfield fence post
Slope 1/4":1'

15' for softball & baseball
10' for Little League

12"

Finish grade

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

FAIRFAX COUNTY PUBLIC FACILITIES MANUAL

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

WARNING TRACK & MOW STRIP SECTIONS

PLATE NO. 26-8
STD. NO. PA-14
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"

Slope surface away from net post

Top of footing 18" x 9' in plan

1/2" dia. x 10" rod welded

Base of footing 18" x 4' in plan

1/2" dia. x 10" rod welded

Base of footing 18" x 9' in plan

Concrete

See court paving detail

10" x 10" plate

1"-0"

1'-6"

2 1/2"

4"

3'-0"

4'-0"

3'-6"

18" x 9" in plan

18" x 3" in plan

18" x 4" in plan

18" x 3" in plan

18" x 9" in plan

Ref. Sec. 2-1004.2

TENNIS COURT NET AND CROSS SECTION DETAILS

PLATE NO. STD. NO.

28-8 PA-16

Rev. 1-00, 2011 Reprint, 2018 Reprint
FENCE POST

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

PLATE NO. STD. NO.
29-8 PA-17
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
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.
Ref. Sec. 2-1004.2
Rev. 1-00, 2011
Reprint, 2018 Reprint

ELEVATION

TENNIS COURT PRACTICE WALL

PLATE NO. 33-8

FAIRFAX COUNTY PUBLIC FACILITIES MANUAL
See detail on Plate 35-8.

Post cap
1 5/8" OD vinyl coated top rail
2 1/2" OD vinyl coated fence post

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

FAIRFAX COUNTY PUBLIC FACILITIES MANUAL

TENNIS PRACTICE WALL ATTACHMENT

PLATE NO. STD. NO.

34–8
End face of wall

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

1/4" x 2" galvanized steel band

PLAN SECTION
(From Plate 34-8)

SECTION ELEVATION
(From Plate 34-8)

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
Reprint, 2011 Reprint, 2018 Reprint

TOP OF PRACTICE WALL FENCE POST

PLATE NO. STD. NO.
36–8
NOTE:
When 2 or more modular units occur, only the 2 end courts will have 3' paved out of bound area.

1 MODULAR UNIT

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

DRAINAGE

Ref. Sec. 2-1004.2

TENNIS PRACTICE COURT DESIGN INFORMATION

PLATE NO. 37–8

Rev. 1–00, 2011 Reprint, 2018 Reprint
ALTERNATE COURT SIZES

<table>
<thead>
<tr>
<th>COURT TYPE</th>
<th>DIMENSIONS (ft)</th>
<th>USE AREAS (ft²)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BASKETBALL</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>VOLLEYBALL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TENNIS</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>
</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

Ref. Sec. 2-1004.2

Rev. 1-00, 2011 Reprint, 2018 Reprint
Overrun area 20’ min. each field

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%.