GENERAL NOTES - FENCING

EARM FENCE

BARBED WIRE

Barbed wire is to conform to one of the types allowed by the specifications.

Unless otherwise noted on plans four strands will be provided.

Spacing of stronds shown is suggested only. Any other spacing approved by the Engineer may be used.

WOOD POSTS

Wood posts to be square cut or round to the dimensions shown on the drawings.

Posts tops may be flat or cut at a 30° angle.

For woven wire fabric, staples are to be used at top and bottom strands and at a minimum of three intermediate strands per post.

One staple per strand is to be used for barbed wire fence.

Where gate, corner, or brace posts fall in rock or marshy areas they shall be set in Class 10 or 20 Concrete.

METAL POSTS

Metal posts are to be one of the types shown on the standard drawings and conforming to the specifications.

At each corner and stretcher post wire fabric is to be cut and all horizontal strands securely wrapped around post.

Braces on corner, stretcher and end posts are to be secured 455 mm from top of post with M12 bolts.

In lieu of setting posts in concrete, manufacturer's anchoring devices meeting the specification requirements may be used when approved by the Engineer.

BRACES

Maximum spacing between braces to be 150 m.

Corner braces to be provided where corner angle is 15° or over.

Line braces to be provided where vertical alignment changes 15° or more and where spacing reaches 150 m.

MISCELL ANEOUS

Fence is to be located as shown on the plans or directed by the Engineer.

The side of the post to which fabric is to be attached will be determined by the Engineer.

Fence to be grounded in accordance with detail shown on standard FE-6 where required.

Unless specified on plans, the contractor will have the option of furnishing either metal or wood posts. Posts types are not to be intermixed on any one installation.

CHAIN LINK FENCE

WIRE FABRIC

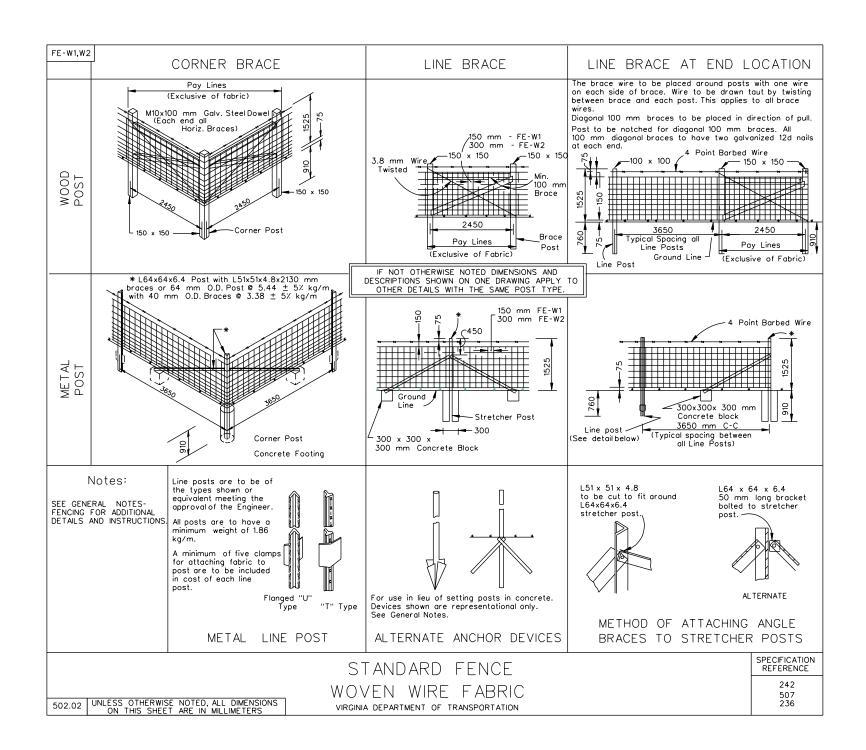
Wire fabric shall have a 50 mm mesh.

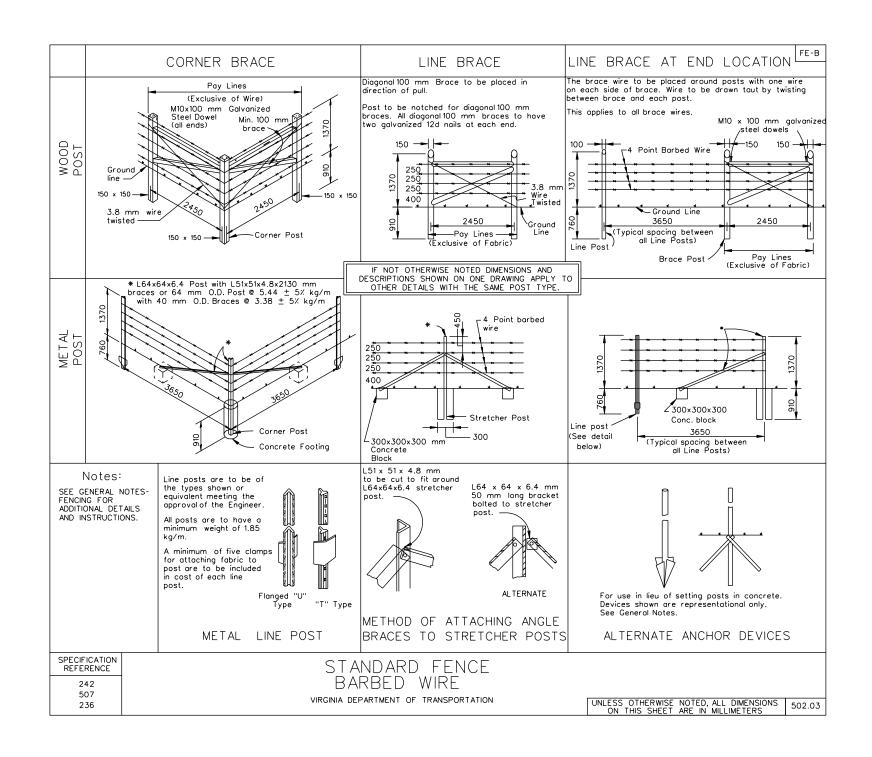
MISCELLANEOUS

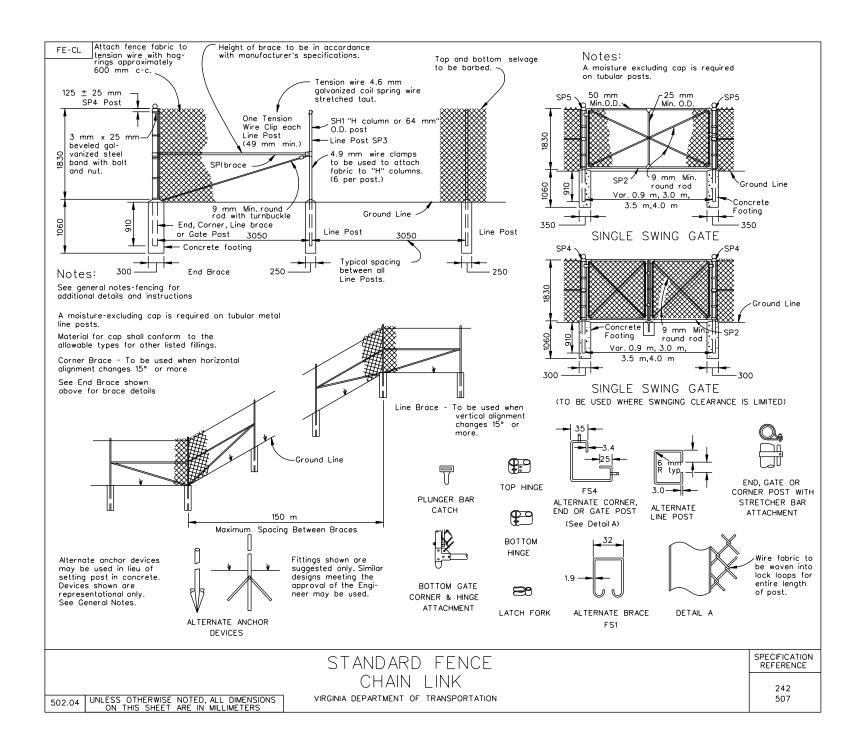
In lieu of setting posts in concrete, manufacturer's anchoring devices meeting the specification requirements may be used when approved by the Engineer.

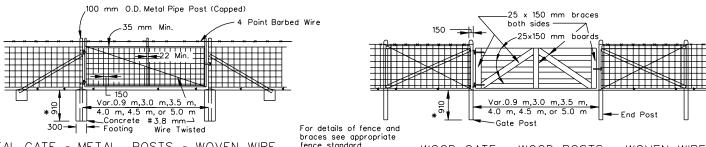
For gates exceeding 1.8 m in width rolled formed steel post will not be allowed.

Chain link fence to be grounded in accordance with details shown on standard FE-6, where required.









METAL GATE - METAL POSTS - WOVEN WIRE

WOOD GATE - WOOD POSTS - WOVEN WIRE



SUGGESTED HINGE ASSEMBLY

WOOD GATE

Braces are to be bolted at extremities and intersections with 2 minimum M16 diameter galvanized bolts, nuts and washers. All other points of contact are to be nailed from both sides with a minimum of 3-10d galvanized nails.

Lumber for gate is to be any dressed, true type meeting the approval of the Engineer. It is to be treated with preservatives other than creosote.

Wood gate is to have 2 coats of exterior white paint unless otherwise directed by the Engineer. Paint is to meet requirements of the current Road and Bridge Specifications.

Gate frame and center brace to be to the dimensions shown on the drawing except that a 0.9 m width gate can have a minimum 25 mm frame with no center brace.

Gate is to be hot dipped galvanized or electroplate galvanized in accordance with ASTM A-164 Type GS.

Gate fabric is to be all 3.0 mm gauge except top and bottom strands which are to be 3.8 mm. Vertical strands are to be spaced 150 mm apart.

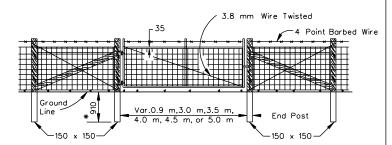
If locations of gates are not specified on plans, they are to be erected at the sites designated by the Engineer.

Gate hinge and latch assemblies may be of any type meeting the approval of the Engineer, except that all hinges are to be of a bolt-through type. All fittings are to be hot dipped galvanized.

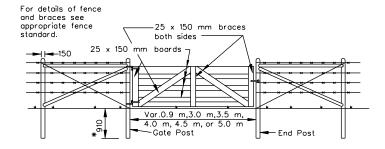
Any combination of gate and fence types meeting the approval of the Engineer will be acceptable and is not limited to the examples shown hereon.

Where wood gate posts fall in rock or marshy areas they are to be set in Class 20 or 10 concrete.

* If gate width exceeds 3.6 m, gate post is to be set 1060 mm into ground Height of gate post above ground depends on type of fence used-1525 mm, Woven wire fabric, 1370 mm, Barbed wire.

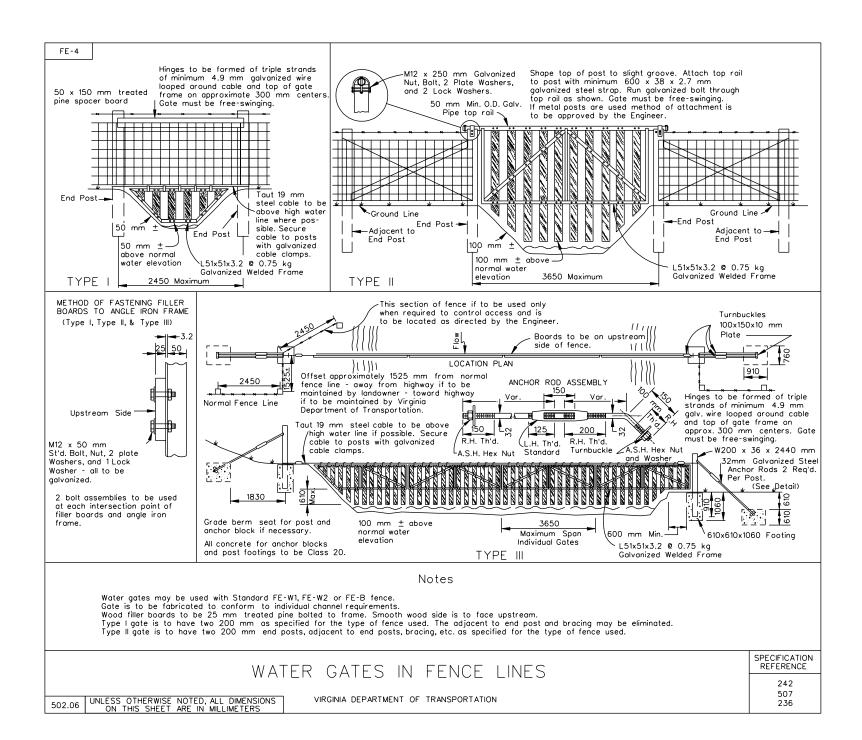


METAL GATE - WOOD POSTS - WOVEN WIRE



WOOD GATE - WOOD POSTS - BARBED WIRE

PECIFICATION REFERENCE	STANDARD FENCE	
242 507	GATES	
236	VIRGINIA DEPARTMENT OF TRANSPORTATION UNLESS OTHERWISE NOTED, ALL DIMENSIONS ON THIS SHEET ARE IN MILLIMETERS 502.	.05





Notes: Approximate materials per installation: 1-16 mm round by 2430 mm long copper clad ground rod. 1 ground rod clamp 1-2135 mm # 6 AWG solid copper wire 3* compression connectors (suitable for copper & aluminum) Compression connector suitable for copper and aluminum * Minimum 3 connectors for 1200 mm fence fabric to be secured to top, bottom and one intermediate horizontal wire strand. One additional connector to be furnished for each strand of barbed wire. On barbed wire installations, one connector is to be furnished for each strand. Ground wire is to be in contact with horizontal For chain link wire of fence by compression connectors as fence grounding, shown. see detail below. Ground rods to be located on post side of fence and as close as possible to post and fence. Unless called for on the plans or directed by the Engineer; fence grounding will be required only at the following locations: XXXXX Metal fences, including plastic coated fence fabric, shall have grounds installed at points 15 m beyond the overhead points of outside conductors of 500 KV 150± and above high voltage lines passing above the fence line. If the conductors of the high voltage line are See Detail A parallel to and within 12.2 m of the fence line as **FI EVATION** measured horizontally, additional grounds shall be 2430 installed at 15 m maximum intervals along the parallel section of fence. Cost for furnishing and placing all grounding materials is to be included in price bid per linear meter of fence. 16 mm round by -Details shown hereon are to apply to all fence types. 2430 mm long copper Lawn fences will be grounded only when recommended clad ground rod by the Engineer. **ELEVATION** -#6 AWG Copper Wire M10 cadmium plated plus gold chromated steel U-Bolt and Nut. Fence Post Cast bronze 3 attachments Copper ground wire plain finish per grounded post located Drill & Tap top, middle -Copper lug Copper bolt and bottom. 150 mm Copper ground wire ALTERNATE Compression type connector Ground rod clamp DETAIL FOR GROUNDING STEEL POST OF CHAIN LINK FENCE DETAIL A

SPECIFICATION REFERENCE	STANDARD	METHOD	OF	FENCE	GROUNDING
507					

507 236

VIRGINIA DEPARTMENT OF TRANSPORTATION

UNLESS OTHERWISE NOTED, ALL DIMENSIONS ON THIS SHEET ARE IN MILLIMETERS

502.07

