

SECTION 507

FENCES

I. GENERAL

1.1. DESCRIPTION OF WORK

This work shall consist of constructing new fence in accordance with these specifications and in reasonably close conformity to the lines and grades shown on the Plans or as established by the Owner.

1.2. MATERIALS

Materials for fences shall conform to the requirements of Section 200.

1.3. SUBMITTALS

- A. Manufacturer's standard catalogue cuts, Drawings and/or details
- B. Staples shall be 9-gage galvanized strand wire and shall be at least 1 1/2 inches in length for soft wood posts and at least 1 inch in length for hardwood posts.

II. EXECUTION

2.1. PROCEDURES

Old fences that are not to be salvaged, trees, stumps, logs, and other debris that will interfere with new fence construction shall be removed and disposed of as directed by the Owner.

Anchor devices shall be fabricated of steel having a yield strength of at least 30,000 psi or of other metal approved by the Owner; shall have a thickness of not less than that specified for the post or 1/8 inch, whichever is greater; and shall be galvanized in accordance with the requirements of VDOT Section 233.

Post and braced post anchor devices, together with the post, shall develop at least 80 percent of the resistance to horizontal and rotational displacement of individual post and braced post assemblies set in concrete when the load is gradually applied to the fence fabric at mid-height.

A. Standard Chain Link Fences:

Metal posts for chain link fences shall be set in Class A3 concrete footings. Posts set in concrete footings shall not be disturbed for at least 7 days following the initial set of concrete and for at least 14 days when the average air temperature for the week following placement is below 50 degrees F.

Each span shall be attached independently at pull and corner posts. Ends of fabric rolls and other sections to be spliced shall be joined by weaving a single strand of the fabric wire into ends of the fabric to create a continuous pattern of mesh. Fabric shall be stretched taut and

securely fastened to each post and rail. Fastenings at ends, gates, corners, and pull posts shall be with stretcher bars and metal bands.

B. Standard fences:

Wood posts shall be set with the larger end down.

Wire shall be stretched taut and securely fastened to each post. Unless a splice can be provided that will develop strength comparable to the strength of the wire, splicing will be permitted only at posts. Each horizontal strand of wire shall be wrapped around the end of the gatepost and securely fastened by winding it about the wire leading to the post.

A new fence shall be joined to an existing fence at the beginning and end of the new fence and at points where cross fences intersect the new fence.

Wood fence posts shall be installed so that tops form a regular grade line. Tops of posts that are sawed after driving shall be brush coated with three heavy applications of the preservative used to treat the posts. Each application shall be given sufficient time to penetrate the wood.

Gates shall be erected at locations shown on the plans or where designated by the Owner. If preferred by the property owner and approved by the Owner, gates and fences similar in type to that which exist may be substituted for the gate shown on the Drawings.

Surplus excavated material and other debris resulting from erecting fences shall be removed, and the site shall be left in a neat, orderly condition.

The Contractor shall be responsible for damage caused to or by livestock straying through areas where an old fence has been removed and is to be replaced with new fence.

C. Repair of Fence Surfaces:

Galvanized Fence Components: Exposed surfaces due to cutting, trimming or other adjustments shall be repaired in accordance with the requirements as set forth in Section 200.

Vinyl Coated Fence Components: Exposed surfaces due to cutting, trimming or other adjustments shall be repaired in accordance with the manufacturer's recommendations.

III. MEASUREMENT FOR PAYMENT

- A. Fences (Standard and Height) will be measured in linear feet of fence fabric, complete-in-place, along the top of the fence from outside to outside of end posts for each continuous run of fence, exclusive of gates, and will be paid for at the contract unit price per linear foot of fence fabric. This shall include clearing, leveling, and preparing terrain at the fence level; line posts; attaching to posts; line and corner braces including posts, braces, concrete, and dowels; turnbuckles, top rails (where specified), grounding; and disposing of surplus and unsuitable material.

- B. Gates (Standard and Length) will be measured in units of each, complete-in-place, and will be paid for at the contract unit price per each. This shall include hinges, latches, stops, stop footings, braces, and all other necessary fittings

End of Section