

## ITEM 554

### WOOD FENCING

554.1 Description. This item shall govern for furnishing the necessary materials and installing a solid picket wood fence, with gates, to the lines and grades shown on the plans. 554.2 Materials. Wood shall be western red cedar meeting the requirements of AWWA Standard U1, suitable for Use Category 4A. All members shall be straight, sound and with tight knots. Concrete for post embedment shall be class D2, in accordance with the Item 421, "Structural Concrete".

Hardware for gate hinges, drop rods (one in each gate section) and other gate hardware shall be hot-dip galvanized with 2.0 ounces minimum per square foot. All gate hardware shall be the heavy type. Nails for fence pickets shall all be aluminum alloy screw type. All other nails shall be galvanized. Bolts, nuts and washers shall be galvanized.

Pickets shall be 1-inch x 8-inches or 1-inch x 10 inches.

Posts to be 4-inches x 4-inches, S4S, meeting the requirements of AWWA Standard U1, suitable for Use Category 4A. Bottom three feet of posts shall be set in Class D2 concrete, with minimum cover of wood to be 4-inches. The top of posts shall extend above the top of pickets as required, for bolted attachment of 2-inches x 4-inches, 45-degree guard arms (extruding out). The spacing of posts shall be 6-foot on centers, maximum. Concrete shall be crowned at the top to shed water.

Guard arms shall be 2-inches x 4-inches, S4S, at 45 degrees, extending out, proper length for 3-barbed wire guard, top wire approximately 12-inches above top and 12-inches outside of pickets. Arms to be bolted to top of posts, with two (2) 3/8-inch galvanized carriage bolts.

Gate shall be double swing, 14-foot clear opening, and all bolted construction. Frames to be 2-inches x 6-inches minimum, S4S, well braced, with metal straps and hardware as required for sturdy construction. Each gate section shall have a drop rod with receptacle in concrete, at ground level; gate shall be heavy bolted on hinged hasp and staple for lock.

554.3 Submittal Required.

All shipments shall include certification from the appropriate wood treatment plant. This certificate shall also state that all samples representing each lot have been tested and inspected in accordance with American Wood Preservers' Association Standard M2, "Inspection of Treated Products" and have been found to meet the requirements of applicable American Wood Preservers' Association standards for wood treatment for its intended use. The Contractor shall submit certification that the concrete that will be used meets the requirements of this specification.

- 554.4 Measurement. Wood fencing will be measured by the linear foot, including gates. When noted in the bid documents, gates may be measured as a separate item.
- 554.5 Payment. The work performed and the material furnished as prescribed by this item and measured as provided under measurement will be paid for at the contract unit price bid for "Wood Fencing". Which price shall be full compensation for furnishing and installing all fence materials, including gates; for all preparation, hauling and installing of same; and for all labor, tools, equipment and incidentals necessary to complete the work, including excavation, backfilling and disposal of surplus material.

END OF ITEM 554