ITEM 615.90000010 GRAPE TRELLIS

DESCRIPTION
This work shall consist of furnishing and erecting a grape trellis at the locations shown in, in reasonable close conformity to the lines and grades shown in, and according to the contract documents and as directed by the Engineer.

MATERIALS
The following sections of the standard specifications shall apply:

Timber and Lumber 594-2
Galvanized Coatings and Repair Methods 719-01

with the following exceptions:

Timber and lumber shall be round.

Lumber.
Posts: All posts shall
- comply with §712-13, with the following exceptions:
  o be the sizes shown in the contract documents,
  o be Black Locust lumber (Robinia pseudoacacia), grown in the Eastern USA,
  o have sound knots 3" in diameter or less,
  o have bark intact. Minor small bark insertions and checks are permitted; small grub holes are not permitted.
  o End posts shall be five-inch (5”) diameter.
  o Line posts shall be three-inch (3”) diameter.

Approval of order, as described under §594-2.02 must also contain the following information:

Species of wood proposed for use.

Wire.
Catch and Cordon Wire: Wire shall be 12.5 gauge, high tensile 200 KPSI, high carbon steel wire with a 1,300 pound minimum breaking strength and a Class 3 galvanized zinc finish made from steel rod with 0.28% carbon content.

Support Wire: Wire shall be 10 gauge, high tensile 200 KPSI, high carbon steel wire with a 1,300 pound minimum breaking strength and a Class 3 galvanized zinc finish made from steel rod with 0.28% carbon content.
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Anchors.
Earth anchors: shall be helical screw-type earth anchors, galvanized carbon steel with a ½” diameter shaft, 30” long with a 4” diameter blade and a 1” diameter eye at one end capable of withstanding a minimum 2,500 pound pull resistance force.

Hardware.
One-way Wire Tightening Vice Grip Anchors for Posts: shall be a one-way wire tightening vice grip-type coated anchor intended for 12.5 gauge wire fence and grape trellis application. All wire crimps and clamps shall be hot dipped galvanized steel.

CONSTRUCTION DETAILS
All posts shall be placed in 12 inch diameter excavated or augured holes. The holes shall be backfilled to the finished ground in approximately 6 inch, compacted layers.

Set earth anchors as shown. Insert wire anchors in line posts as recommended by manufacturer. Run trellis wire as shown on plans. Tension wire to 200 pounds.

METHOD OF MEASUREMENT
The work will be measured as the number of linear feet of Grape trellis furnished and erected.

BASIS OF PAYMENT
The unit price bid per linear foot of grape trellis furnished and erected shall include the cost of furnishing all labor, materials, and equipment necessary to satisfactorily complete the work.