

## **ITEM 615.0402--08 M - TREE/VEGETATION PROTECTION BARRIER**

### **DESCRIPTION:**

This work shall consist of furnishing, installing, and maintaining tree or vegetation protection barriers of the type and at the locations shown in the plans or where directed by the Engineer.

### **MATERIALS:**

Materials for tree/vegetation protection barriers shall conform to the following requirements and AOB:

- Plastic barrier fence (orange or green color)
- Steel post (minimum length 1.8 meters)
- #14 gauge steel wire

### **CONSTRUCTION DETAILS:**

The tree or vegetation protection barriers shall be erected prior to moving construction equipment onto any site where the trees or vegetation designated for protection are located, as shown on plans or where directed by the Engineer.

Tree/vegetation barriers shall be not less than 1.2 meters in height. For protection of individual trees, lay out a square around the drip line of the tree canopy if practical with the trunk centered in the square and at least 1.5 meters away from any side. Drive a steel post normal to the ground at each corner, and at the midpoint of each side or at 1.8 meter intervals, whichever is less to a depth 1/3 of the total post length.

For vegetation protection barriers, lay out the line of barriers. Drive steel posts normal to the ground to a depth 1/3 of the total post length. Posts shall be spaced on 1.8 meter centers.

Place the plastic barrier fence along the side of all posts. Ends of fencing shall overlap a distance that is at least one half the fence height. Secure overlap with wire.

Secure fencing to post with wire at top, middle and bottom of post. Wire shall be tight enough to prevent the fencing from slipping down.

Barrier fence which is not orange in color shall be flagged at 1.8 meter intervals with red or orange florescent tape. Maintenance shall commence immediately after erection of the tree/vegetation protection barrier and continue until one week prior to acceptance of the contract.

The barrier shall not be temporarily removed to allow equipment access over a protected area, except as required for items of work specifically shown on the plans and approved by the Engineer in writing. Maintenance shall consist of replacing damaged post(s) and fencing, and

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tightening fencing.

Warning signs reading "Protected Site" - "Keep Out" shall be mounted on the tree/vegetation protection barrier as required by the Engineer, but at no more than 30 meter intervals. Signs shall be 400mm by 600mm with 100mm black letters on a white background.

**METHOD OF MEASUREMENT:**

Tree/vegetation protection barriers will be measured as the number of meters of barrier erected, measured along the top of the barrier erected.

**BASIS OF PAYMENT:**

The unit price bid per meter shall include the cost of furnishing all labor, materials and equipment necessary to satisfactorily complete the work.

Relocation of a tree/vegetation barrier from one location to another as directed by the Engineer shall be considered as a new location and shall be separately paid.

Fifty percent (50%) of the price bid shall be paid after satisfactory installation of the tree/vegetation protection barrier. The remaining fifty percent shall be paid after complete removal of the tree/vegetation barrier except that any unit or length not properly maintained shall be deducted from the final payment on a prorated basis.

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