

## SECTION 10

### CLEARING AND GRUBBING

#### 10.1 DESCRIPTION

**A. General:** This work consists of clearing, grubbing, removing and disposing of vegetation and debris within the limits of the right-of-way, borrow, and easement areas, except such objects designated to remain or to be removed in accordance with the plans and detailed specifications, or other sections of these standard specifications.

**B. Related Work:**

Section 7	General Conditions
Section 17	Salvaging, Stockpiling, and Placing Topsoil
Section 74	Planting Trees, Shrubs, and Vines
Section 75	Transplanting Trees and Shrubs
Section 201	Construction Stakes, Lines and Grades (Contractor Furnished Staking)

#### 10.2 MATERIALS (not specified)

#### 10.3 CONSTRUCTION REQUIREMENTS

The Contractor shall establish right-of-way lines and construction lines and designate trees, shrubs, plants, and other objects to be removed. This shall be paid for under the bid item "Contractor Furnished Staking", In the case where, "Contractor Furnished Staking" is not included then the Engineer will establish right-of-way lines and construction lines and designate trees, shrubs, plants, and other objects to be removed.

Vegetation and objects not marked for removal shall be preserved free from injury or defacement.

Surface objects, trees, stumps, roots, and other protruding obstructions shall be cleared and/or grubbed as required. Perishable objects beneath the roadway, hard surface, or sidewalk section shall be removed entirely. When authorized, the Contractor may leave stumps and nonperishable solid objects which are located outside of the roadway, hard surface, or sidewalk, and extend a minimum of three (3) feet below the final grade, provided the stumps and nonperishable solid objects are removed to at least 12 inches below final grade.

Except in areas to be excavated, holes resulting from the removal of obstructions shall be backfilled with suitable material and compacted under the same specification as the embankment. All disturbed areas shall be permanently reclaimed.

Materials, debris, and perishables shall be disposed of at an approved licensed location, approved by the Engineer. The cost involved shall be included in the unit price bid.

Low-hanging, unsound, or unsightly branches on remaining trees or shrubs shall be removed by arborist methods and as directed by the Engineer. Branches of trees extending over the roadbed shall be trimmed by arborist methods to provide adequate sight distance for vehicular or pedestrian traffic in accordance with City Ordinance.

#### **10.4 METHOD OF MEASUREMENT**

Measurement for clearing and grubbing of trees over six (6) inches in diameter will be on a per each basis by actual count of such trees and includes the removal of the corresponding stumps which are satisfactorily removed and disposed of. The diameter of trees will be measured two (2) feet above the ground. Measurement for clearing and grubbing trees will be in the groupings of: 6 inches to less than 18 inches, 18 inches to less than 30 inches, and greater than 30 inches.

Measurement for clearing and grubbing of existing stumps 12 inches in diameter and greater will be on a per each basis by actual count of existing stumps which are satisfactorily removed and disposed of.

Measurement for clearing and grubbing of existing stumps less than 12 inches and trees less than 6 inches in diameter, vegetation, surface objects, roots, and other protruding obstructions, which are satisfactorily removed and disposed of will be on a lump sum basis for "Clearing and Grubbing".

The removal of low-hanging, unsound, or unsightly branches on trees or shrubs by arborist methods shall be on a lump sum basis for "Clearing and Grubbing".

Field measurement for the bid item "Clearing and Grubbing" will not be made.

#### **10.5 BASIS OF PAYMENT**

Payment for clearing and grubbing of trees will be made by the following groupings: 6 to less than 18 inches diameter, 18 to less than 30 inches diameter, and greater than 30 inches diameter.

Payment for clearing and grubbing of existing stumps 12 inches or greater in diameter will be on a per each basis by actual count of existing stumps which are entirely removed and disposed of.

Payment for clearing and grubbing of existing stumps less than 12 inches in diameter and trees less than 6 inches in diameter, vegetation, surface objects, roots, and other protruding obstructions, which are satisfactorily removed and disposed of will be on a lump sum basis for "Clearing and Grubbing".

When these items are not included in the contract, removal of trees and stumps necessary to complete the work will be considered as "Incidental Work".

**END OF SECTION**