

200 EARTHWORK

ITEM 201 - CLEARING AND GRUBBING

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201.01 Description. This work consists of clearing, grubbing, scalping, removing trees and stumps, and removing of all vegetation and construction debris from the limits of the right-of-way and easement area, except such objects that are to remain or are to be removed according to other items of work.

Use all suitable excavation material in the work or legally use, or dispose of all material in accordance with federal, state, and local regulations.

201.02 General. Remove or save all trees, shrubs, and plants designated in the plans. Preserve all vegetation and objects not designated for removal.

All work performed shall meet the requirements of Item 207 and the work shall be included in Item 201 unless specific pay items for work is listed on the plans or in the proposal.

Any damage to trees or shrubs shall be repaired as per the directions of the city forester. The time limitations on the clearing and grubbing operations are specified in Item 207.

201.03 Clearing and Grubbing. *Clear and grub all trees and stumps marked for removal and all surface objects, brush, roots, and other protruding obstructions not designated to remain. Remove stumps at least 6 inches (150 mm) below ground surface.*

Except in areas to be excavated, backfill stump holes and other holes created by removing obstructions with 203 embankment material. Place and compact according to Item 203.

Remove low hanging, unsound, or unsightly branches on trees or shrubs designated to remain. Trim branches of trees extending over the roadbed to provide a clear height of 20 feet (6 m) above the roadbed surface.

Legally dispose of debris contaminated with garbage, solid, or hazardous waste.

201.04 Scalping. *Scalp all areas where excavation or embankment is required. Scalping includes removing surface material such as roots, sod, grass, residue of agricultural*

crops, sawdust, and decayed vegetable matter. The depth of scalping does not include topsoil or other material below the scalping operation.

No separate payment will be made for salvaging and stockpiling of topsoil and sod. The cost for this work shall be included in the unit price bid for Item 201.

201.05 Method of Measurement. The Engineer will measure by one of the following methods:

1. **Lump Sum Basis.** When the proposal contains 201 Clearing and Grubbing, the Engineer will not measure the area cleared and grubbed.
2. **Individual Unit Basis.** When the proposal contains 201 Trees or Stumps Removed, ___”(m) Size, the Engineer will measure trees or stumps designated for removal according to the following schedule of sizes:

Pay Item	
Diameter	Designation
Over 12 inches to 24 inches (0.3m to 0.6 m)	15 inch size each (0.50 m)
Over 24 inches to 36 inches (0.6m to 0.9 m)	30 inch size each (0.80 m)
Over 36 inches to 60 inches (0.9 m to 1.5 m)	48 inch size each (1.2 m)
Over 60 inches (over 1.5 m)	60 inch size each (1.5 m)

The Engineer will measure the diameter of trees at a height of 54 inches (1.4 m) above the ground. Trees 12 inches (0.3 m) and less in diameter are classified as brush. The Engineer will measure stumps by taking the average diameter at the cutoff.

201.06 Basis of Payment. When the proposal contains 201 Clearing and Grubbing, the City will pay for all the work described in this item, including, backfilling holes, scalping and removing all trees and stumps, at the lump sum price bid. When the proposal contains 201 Removal of Trees and Stumps, the City will consider the remaining work described in this item incidental and will not pay for performing this work directly. The City will pay for accepted quantities at the contract prices as follows:

Item	Unit	Description
201	Lump Sum	Clearing and Grubbing
201	Each	Trees or Stumps Removed, ___”(m) Size