

## DIVISION 2

### CLEARING, GRUBBING, REMOVING TREES AND STUMPS

- 2.01      Description:
- 2.01.01      Clearing and Grubbing – This work shall consist of cutting, removing from the ground, and disposing of all trees, stumps, shrubs, brush, roots, logs, and other vegetation occurring within the right-of-way or within such other limits as may be defined on the plans or specifications which interfere with excavation, embankment, clear vision, or are otherwise objectionable.
- 2.01.02      Removing Trees and Stumps – This work shall consist of removing individual trees or stumps eight (8) inches or larger (as measured four and one-half feet (4-1/2') above the natural ground) where called for on the plans or in the proposal or as directed by the Engineer; or of removing stumps of trees which have been “topped” as called for on the plans or in the proposal. This item shall also include cutting such trees or stumps or trees which have been “topped,” removing their stumps and roots from the ground and properly disposing of the material.
- Removing trees and stumps less than eight (8) inches in diameter shall be included in the other items. When stumps are located within the roadway, they shall be completely removed. The Contractor may grind stumps outside the roadway with prior approval of the Engineer.
- 2.01.03      Claim to Wood – The property owner shall have first claim to all wood on the property. Contractor shall cut all usable wood into sections not exceeding four (4) feet long. All storage shall be outside the right-of-way or easement limits. Contractor will be responsible for any damage incurred in relocating wood.
- 2.01.04      Relocation of Trees – All trees identified for relocation on the plan shall be relocated with the use of a tree spade. Any other means of relocation shall require prior approval by the Engineer. Any tree damaged during said relocation, shall be replaced at the Contractor’s expense. No additional compensation will be considered.
- 2.02      Construction Methods:
- 2.02.01      Clearing and Grubbing –
- (a)      The removal of all trees, stumps, brush and other vegetation occurring within the grading limits for cuts, fills less than five (5) feet, special ditches, borrow pits, and clear vision areas. Items specifically identified within these limits designated on the plans or by the Engineer to be saved, and all such material occurring outside such limits which is shown on the plans, shall remain.

- (b) All shrubs and other vegetation within the grading limits which are designated on the plans or by the Engineer to be saved, and all such material occurring outside of the grading limits which is not designated on the plans or by the Engineer to be removed, shall be carefully protected from damage or injury during all construction.
- (c) All stumps, roots, logs and other timber more than three (3) inches in diameter and all brush, matted roots and debris not suitable for road foundation, occurring within the limits for cuts and for fills of less than five (5) feet, shall be pulled or otherwise removed to a depth of at least one foot below the ground. Blasting, when permitted, shall be done in compliance with the City Ordinance governing the use of explosives.

2.02.02 Clean-up – All brush, limbs, tops, stumps, roots, logs, and debris resulting from clearing, grubbing, and removing trees not desired by property owner shall be hauled to a satisfactory dump, or otherwise disposed of as directed by the Engineer. Open burning will not be allowed.

2.03 Method of Measurement and Basis of Payment:

2.03.01 Clearing and Grubbing – All clearing, grubbing, removing and disposal of trees, brush, stumps, roots, logs, and other vegetable matters shall be included in the price bid for excavation and embankment, unless a specific item “Clearing and Grubbing” is provided in the proposal. “Clearing and Grubbing” shall be measured and paid for in acres if item is provided in contract and shall be paid only in the areas shown in the plans or specifications.

Within the clearing and grubbing limits, there will be no additional payment for removal of trees or stumps on an individual tree or stump basis.

2.03.02 Removing Trees and Removing Stumps – “Removing Trees” or “Removing Stumps” shall include the removal and disposal of such trees, “topped trees,” or stumps as are called for on the plan and shall be paid for at the contract unit price bid in the proposal.

The size of trees will be determined by the average diameter of the tree trunk, measured to the nearest full inch, at a point four and one-half feet (4-1/2’) above the base of the tree at the ground line. At such instances where the first branch is lower than four and one-half feet, the tree shall be measured at smallest diameter below said bottom branch. Stumps to be removed will be measured as the average diameter of the top of the stump to the nearest full inch.

Where two or more trees or stumps originate from one stump at a point less than one-foot (1’) above the ground, the trees will be measured separately.

There will be no payment made for removing individual trees or stumps within clearing and grubbing limits. Such trees will be paid for as clearing and grubbing.