

## 200 EARTHWORK

### ITEM 201 CLEARING AND GRUBBING

#### 201.01 Description

#### 201.02 General

#### 201.03 Clearing and Grubbing

#### 201.04 Scalping

#### 201.05 Method of Measurement

#### 201.06 Basis of Payment

**201.01 Description.** This work consists of clearing, grubbing, scalping, removing trees and stumps, and removing all vegetation and construction debris from the limits shown on the plans, except such objects that are to remain or are to be removed according to other items of work.

Use removed or excavated materials in the work when the material conforms to the specifications; if not then recycle, burn, or dispose of the material according to 105.16 and 105.19.

#### 201.02 General

Provide temporary sediment and erosion controls according to the requirements of Item 207. Include such work in Item 201 unless specific pay items for temporary sediment and erosion controls are listed on the plans or in the proposal.

Repair damage to trees or shrubs according to the directions of the City Forester.

A. Remove or save all trees, shrubs, and plants as designated on the plans. Preserve all vegetation and objects not designated for removal.

B. In order to retard and prevent the spread of the Emerald Ash Borer, limit the movement of regulated articles according to Ohio Administrative Code 901:5-56. Observe requirements for handling and transporting of regulated articles in quarantined areas as defined by the Ohio Department of Agriculture (<http://www.agri.ohio.gov/eab/>).

The following are considered regulated articles and are subject to the quarantine established by the Ohio Department of Agriculture:

1. Deciduous trees of any size.
2. Deciduous limbs and branches
3. Any cut non-coniferous (non-evergreen) firewood.
4. Deciduous tree bark and deciduous tree wood chips larger than 1 inch (25 mm).
5. Deciduous logs and lumber with the bark, outer inch of sapwood, or both attached.
6. Any item made from or containing deciduous tree wood capable of spreading Emerald Ash Borer.
7. Any means of conveyance capable of spreading Emerald Ash Borer.

Should the Contractor elect to hire a certified arborist to distinguish between ash wood (*Fraxinus* spp.) and other deciduous wood, then only ash wood will be considered regulated articles.

### 201.03

Follow all other federal and state Emerald Ash Borer quarantines.

C. Restrictions on when the Contractor may perform the clearing and grubbing work are located in other parts of the Contract Documents.

**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, except for special treatments listed below:

A. In locations to be seeded, remove stumps at least 6 inches (150 mm) below ground surface.

B. In unseeded areas to be rounded at the top of backslopes, cut the stumps flush with or below the surface of the final slope line.

C. The Contractor may leave undisturbed stumps and roots, and nonperishable solid objects 6 inches (150 mm) above the existing ground surface in the plan embankment construction locations when both of the following conditions are true:

1. The embankment height is greater than 9 feet (3 m) as measured vertically from the existing ground surface to the proposed ground surface, and
2. The slope of the existing ground is 8:1 or flatter.

D. In locations outside of the construction limits of the cut and embankment areas not to be seeded, the Contractor may leave sound stumps 24 inches (0.6 m) above the existing ground surface.

Except in areas to be excavated, backfill stump holes and other holes created by removing obstructions with Item 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.

Dispose of debris contaminated with garbage, solid waste, or hazardous waste or material according to other contract items.

**201.04 Scalping.** 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. The Engineer will not require areas to be scalped in the plan embankment construction locations when both of the following conditions are true:

1. The embankment height is greater than 9 feet (3 m) as measured vertically from the existing ground surface to the proposed ground surface, and
2. The slope of the existing ground is 8:1 or flatter.

Scalp all other areas where excavation or embankment is required.

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

If Clearing and Grubbing is specified in the Contract, the City will not measure the area cleared and grubbed.

If Item 201 Tree Removed or Item 201 Stump Removed is specified in the Contract, the City will measure trees and stumps designated for removal according to the following table.

**TABLE 201.05-1**

<b>Tree or Stump Diameter</b>	<b>Pay Item Designation</b>
Over 12 inches to 24 inches	18-inch size
Over 24 inches to 36 inches	30-inch size
Over 36 inches to 60 inches	48-inch size
Over 60 inches	60-inch size
Over 0.3 m to 0.6 m	0.5 m size
Over 0.6 m to 0.9 m	0.8 m size
Over 0.9 m to 1.5 m	1.2 m size
Over 1.5 m	1.5 m size

The City 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 City will measure stumps by taking the average diameter at the cutoff.

**201.06 Basis of Payment.** If Item 201 Clearing and Grubbing is specified in the Contract, the City will pay for all work described, including backfilling holes, scalping, and removing all trees and stumps, at the lump sum price bid. If Item 201 Tree Removed or Item 201 Stump Removed is specified in the Contract, the City will consider the remaining work described incidental and will not pay for performing this work directly.

The City will pay for accepted quantities at the contract prices as follows:

<b>Item</b>	<b>Unit</b>	<b>Description</b>
201	Lump Sum	Clearing and Grubbing
201	Each	Tree Removed, ___ Size
201	Each	Stump Removed, ___ Size