

**SECTION 02110
CLEARING AND GRUBBING**

1.0 GENERAL

A. Description

1. Clearing and grubbing shall include, but not necessarily be limited to, clearing areas of trees, brush, shrubs, down timber, rotten wood, other vegetation, debris and rubbish, as well as removal of fences and incidental structures; and grubbing or removing from the ground all stumps, roots and stubs, brush, organic materials, and debris, in accordance with the Contract Documents and within the limits of disturbance.
2. Contractor shall be responsible for acquiring all required permits associated with tree removal and tree trimming.

B. Related Work Included Elsewhere

None

C. Quality Assurance

The Commission will inspect the work to insure that it is performed in accordance with the Contract Documents.

2.0 MATERIALS

Not applicable.

3.0 EXECUTION

A. Limits

1. General

- a. Unless otherwise indicated in the Contract Documents, all trees and other growth within the site easement or rights-of-way may be removed. Designated trees in temporary construction easements are to be saved.
- b. Within the limits indicated on the Contract Documents to be cleared and grubbed, the Commission has the right to designate trees and other growth which the Commission may desire to leave standing.
- c. The clearing and grubbing operation shall be completed before major construction is under taken.

2. Utility Construction

Limits of clearing and grubbing include only those areas within the easement or right-of-way which are actually necessary for construction. Clearing will not be permitted in temporary construction easements unless specifically indicated in the Contract Documents or approved by the Commission.

B. Unsuitable Materials

Note that after the clearing and grubbing operations are completed, unsuitable materials such as unstable formations, root mat, or swamp muck encountered below the surface of the ground must also be removed and properly disposed.

C. Salvaged Materials

When indicated, such materials as leaf mold or other organic materials above the surface of the ground and suitable for use as mulch or topsoil shall be salvaged and stockpiled.

D. Trees, Shrubbery and Plants

The Commission will designate and clearly mark any trees, shrubbery, and plants which are not to be removed, and the Contractor shall protect them from any damage, as outlined in the "**General Provisions**." Where trees which are left standing are trimmed or become scarred by the Contractor's operations, the cuts or scars shall be repaired by the Contractor. All trimming and repairs shall be done by skilled workmen and in accordance with good tree surgery practices under the supervision of a tree expert licensed by the State of Maryland.

E. Burning

If allowed, the Contractor shall obtain the appropriate permits to allow the burning of trees, brush, trash, or other perishable materials. If burning is prohibited by the Fire Marshal, the Contractor shall remove these materials and dispose of them off-site in permitted disposal facilities.

F. Disposal Locations

Perishable materials and debris shall be removed from the site easement or right-of-way and disposed of at locations off the project and outside the limits of view from the project by the Contractor. The Contractor shall make all necessary arrangements with property owners, in writing, for obtaining suitable disposal locations, and furnish the Commission with a copy of the agreement. The cost involved shall be included in the price bid. The Contractor shall be responsible for obtaining all State and local permits for the disposal locations and furnish the Commission with evidence indicating the sites are approved for disposal.

G. Fences

All fences within the easement or right-of-way that are identified to remain shall be removed as carefully as practicable and replaced so that it remains in a condition equal to or better than what existed prior to construction.

H. Excavation Areas

Within areas to be excavated, all imbedded stumps, root mats, etc., shall be removed to a depth of not less than 1-foot below the subgrade or slope surfaces. All depressions made below the subgrade or slope surfaces by the removal of stumps or roots shall be refilled with materials suitable for embankment and shall be compacted in accordance with the requirements in Section 02250.

4.0 METHOD OF MEASUREMENT

The amount of clearing and grubbing will not be measured.

5.0 BASIS OF PAYMENT

Payment for clearing and grubbing will not be made, as it shall be included in the unit quantity item for all pipe and structures installed.

**** END OF SECTION 02110 ****