

**DIVISION II  
CONSTRUCTION DETAILS  
PART A EARTHWORK**

**SECTION 100 CLEARING AND GRUBBING**

**100.1 DESCRIPTION**

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 objects designated to be removed in accordance with other sections of these specifications.

**100.2 MATERIALS (Not Specified)**

**100.3 CONSTRUCTION REQUIREMENTS**

The Engineer will establish right-of-way lines and construction lines and designate trees, shrubs, plants and other objects to remain. Vegetation and objects designated to remain shall be preserved free from injury or defacement.

Surface objects, trees, stumps, roots and other protruding obstructions, designated for removal shall be cleared and grubbed, including mowing, as required. When authorized, the Contractor may leave stumps and nonperishable solid objects located more than three feet (1 m) below subgrade or slope of embankments, provided they do not extend more than six inches (150 mm) above the ground line or low water level.

In embankment areas, holes resulting from the removal of obstructions shall be backfilled with suitable material and compacted in accordance with Section 120.3 B.3.

Burning, if permitted, shall be done in accordance with applicable laws, ordinances, and regulations. Perishable material shall be burned under the Contractors constant care, at such times and in a manner that will not jeopardize the surrounding vegetation, adjacent property or anything designated to remain.

Materials, debris and unburned perishable materials shall be satisfactorily disposed of. If disposal is by burial, a cover of at least 12 inches (300 mm) shall be provided and the area shall be shaped to present a pleasing appearance. If the disposal location is off the project, the Contractor shall make arrangements with property owners in writing for obtaining suitable disposal locations. These sites shall be outside the limits of view from the project. The cost involved shall be included in the unit price bid for clearing and grubbing.

Timber which can be utilized for logs, posts, poles, ties or cordwood shall be considered as merchantable timber and shall be the property of the previous landowner. Such timber shall, when so noted in the contract, be trimmed and cut into merchantable lengths and neatly piled adjacent to the right-of-way at designated locations. The Contractor will not be required to cut merchantable timber into lengths shorter than 16 feet (five meters).

## **CLEARING AND GRUBBING**

Low hanging, unsound or unsightly branches on remaining trees or shrubs shall be removed. Branches of trees extending over the roadbed shall be trimmed to give a clear height of 20 feet (6 meters) above the roadbed surface. Trimming shall be done in accordance with good tree trimming practices. Cut or scarred surfaces of trees or shrubs selected for retention shall be treated with an approved asphaltum base paint prepared especially for tree surgery or orange shellac.

### **100.4 METHOD OF MEASUREMENT**

Measurement for clearing and grubbing trees and stumps over 6 inches (150 mm) in diameter will be on a per each basis by actual count of such trees and stumps removed and disposed of. The diameter of trees and stumps will be measured 2 feet (600 mm) above the ground. Old stumps extending less than 2 feet (600 mm) above the ground, will not be counted. No more than one tree will be counted from any stump.

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

### **100.5 BASIS OF PAYMENT**

The removal of trees and stumps will be paid for at the contract price per each. When these items are not included in the contract, the removal of trees and stumps will be incidental to the lump sum item "Clearing".

The lump sum payment for "Clearing" will be full compensation for removal and disposal of vegetation and debris.