

## **SECTION 02230**

### **CLEARING AND GRUBBING**

#### **PART 1 - Description**

This work shall consist of clearing, grubbing, scalping, removal of trees and stumps, and removing and disposing of all vegetation and debris within the limits of the work as described on the drawings, except such objects that are to remain or are to be removed in accordance with other sections of these specifications.

##### **1.01 General**

- A. The Engineer shall exercise control over clearing and grubbing and shall designate all trees, shrubs, plants, and other objects to be removed. This work shall also include the preservation from injury or defacement of all vegetation and objects to remain. Paint required for cut or scarred surfaces of trees or shrubs selected for retention shall be a suitable asphaltum base paint.
- B. Before the Contractor removes any tree or stump which the plans state is to be removed, the Engineer shall review the plan requirements with the Owner and Contractor and appropriately mark each tree or stump which is to be removed.
- C. Only such trees and stumps which have been marked for removal by the Engineer shall be removed.
- D. Limitations of areas of clearing and grubbing and earthwork operations shall be in accordance with the construction drawings

#### **PART 2 – Materials (Not Used)**

#### **PART 3 - Execution**

##### **3.01 Clearing and Grubbing**

- A. All surface objects, brush, roots, and other protruding obstructions, not designated to remain, and all trees and stumps marked for removal, shall be cleared and/or grubbed, including mowing, as required, except for special treatment as follows:
  - 1. In locations to be seeded, stumps shall be removed to a minimum of 150 mm (6 inches) below ground surface.
  - 2. In unseeded areas to be rounded at the top of backslopes, stumps shall be cut off flush with or below the surface of the final slope line.

3. Except in areas to be excavated, stump holes and other holes from which obstructions are removed, shall be backfilled with suitable material and compacted in accordance with other divisions within these specifications.
4. Materials and debris may be removed from the construction site and properly disposed of at locations off the project outside the limits of view from the right-of-way with the written permission of the property owner on whose property the materials and debris are placed. No burning of vegetation will be allowed. The Contractor shall make all necessary arrangements with property owners for obtaining suitable disposal locations.
5. Low hanging branches and unsound or unsightly branches on trees or shrubs designated to remain shall be removed as directed. Branches of trees extending over the roadbed shall be trimmed to give a clear height of 6 m (20 feet) above the roadbed surface.

### **3.02 Scalping**

- A. The Contractor shall scalp all areas where excavation or embankment is to be made. Scalping shall include the removal of material such as roots, sod, grass, residue of agricultural crops, sawdust, and decayed vegetable matter from the surface of the ground.
- B. Sod and incidental topsoil removed in the scalping operation shall be salvaged and stockpiled for use as specified elsewhere. The stockpiles of scalplings shall be made in such a manner and at such locations that they will be well drained and will not impound water.
- C. The depth of scalping performed under this section is not intended to include topsoil.

**END OF SECTION**