

DIVISION 2 - SITE CLEARING

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SPECIFICATION SECTION 02100 - CLEARING AND GRUBBING

1. DESCRIPTION

This Specification Section prescribes the; clearing, grubbing up, removal and disposal off the Site of all vegetation, bushes, trees, superficial obstructions and debris found within the limits of the Site except; objects designated to remain in accordance with this Specification Section or other Specification Sections or as indicated on the Drawings or as directed by the Engineer. The Contractor shall make all necessary arrangements with the property owners and the pertinent Authorities for locating and obtaining suitable dump sites/tips off the Site.

2. CONSTRUCTION REQUIREMENTS

2.1 General

The Contractor shall clear the ground of all trees, stumps, logs, brush, undergrowth, debris and rubbish of any nature, including the removal of stumps and roots where affected by the Works and other structures within the limits of the right of way, except objects designated to remain and unless the Drawings require otherwise. Due care must be taken not to damage trees and existing structures outside the limits of the working area or identified to remain.

Prior to commencement of clearing and grubbing the Contractor shall obtain the Engineer's written confirmation regarding the objects that are to remain, approval for the equipment to be used and the method of work execution.

2.2 Protection of Areas and Objects Designated to Remain

The Contractor will be responsible for the protection and routine maintenance of; existing shrubs, trees, grassed areas designated and all objects designated to remain. On completion of the Works these areas and objects will be returned to the Employer in the same condition that they were prior to the start of the Works, natural growth of living objects excepted. Any damage due directly or indirectly to the Contractor's operations shall be made good at his own expense.

2.3 Clearing, Grubbing and Tree Removal

- a) All trees standing or previously felled, rotten wood, stumps, roots, snags, brush, vegetation, rubbish and other protruding obstructions, with the exception of objects designated to remain, shall be cleared and/or grubbed up.
- b) In areas of embankment all stumps and roots shall be removed to a depth at least 50cm below the original ground surface and at least 80cm below the bottom of the lowest pavement layer.

- c) In areas of cut all stumps and roots shall be removed to a depth of not less than 50cm below the finished subgrade level.
- d) All pits, channels and ditches shall be cleaned of unsuitable material.
- e) All stump holes and other grubbing holes within the prism of construction shall be filled with suitable materials and compacted in accordance with the requirements specified in Specification Section 03400 Embankment or as approved by the Engineer.

2.4 Disposal of Cleared Material

- a) Saleable timber shall be neatly stored in an approved accessible location as directed by the Engineer and stacked in accordance with the requirements of the appropriate Government Agency.
- b) All unsaleable timber bushes, stumps, roots, logs and other refuse from the clearing and grubbing operations shall be disposed by means approved by the Engineer off the Site.
- c) No debris shall remain at the issue of the Taking-Over Certificate. The Site and adjacent areas shall be left in a neat and tidy condition.

3. MEASUREMENT AND PAYMENT

3.1 Method of Measurement

The following methods of measurement will be followed:

- a) Clearing, grubbing, removal of; trees, stumps, logs, brush, undergrowth, debris and rubbish of any nature, including the removal of stumps and roots where affected by the Works and other superficial obstructions from within the clearing limits, disposal off Site and ancillary work will be measured in square meters (m²) under pay item 02100-01. Quantities will be based on field measurements approved by the Engineer of the area of the Site but will exclude (1) the areas identified on the Drawings where no clearing or grubbing is required and (2) the areas of existing structures demolished and removed in accordance with Specification Section 02200 - Demolition and Removal of Existing Structures and Obstructions
- b) No payment will be made for clearing, grubbing and other incidental works necessary for development of borrow pits or material sources.
- c) The Clearing and Grubbing provisions and construction requirements identified in this Specification Section shall be measured for payment in pay item 02100-01.
- d) Any Clearing and Grubbing Works not specifically identified in this Specification Section but which are necessary for the performance of the Works shall be deemed to be included in pay item 02100-01.

- e) The filling and compacting of the stump and other grubbing holes shall be measured for payment under the appropriate pay item in Specification Section 03400 Embankment.

3.2 Basis of Payment

The work under this Specification Section shall be paid for in accordance with the applicable unit prices indicated in the Bill of Quantities and given below. Payment shall constitute full compensation for performing the requirements of the Contract for the item of work as specified including furnishing all necessary labor, materials, tools, equipment and incidentals.

<u>Pay Item</u>	<u>Description</u>	<u>Unit</u>
<u>02100</u> 02100-01	<u>Clearing and Grubbing</u> Clearing and Grubbing	m ²