

## DIVISION 200

## EARTHWORK

### SECTION 201

#### CLEARING AND GRUBBING

**201.01 Description.** This work shall consist of clearing, grubbing, removing and disposing of all vegetation and debris and obstructions within the limits of the right of way, ditch and channel change areas and other easement areas, except such objects as are designated to remain, or are to be otherwise removed in accordance with the plans or other sections of these specifications. This work shall also include the preservation from injury or defacement of all vegetation and objects designated to remain.

#### CONSTRUCTION REQUIREMENTS

**201.02 General.** The Engineer will establish right of way lines and construction lines and designate all trees, shrubs, plants and other items to remain. The Contractor shall preserve all such designated items. Any damage to natural terrain or to vegetation or objects designated to remain shall be repaired, replaced or otherwise compensated for, as determined by the Engineer, at the expense of the Contractor.

The right of way or roadway, whichever is indicated on the plans, including bridge sites, cut and fill slopes that extend beyond the right of way and such other areas necessary to complete the work shall be cleared of all vegetation, stumps, rubbish, logs, roots, foundations, framework, utility connections not in service, portions of buildings not otherwise provided for, and other objectionable material hereinafter indicated or considered necessary to satisfactorily complete the work. This work shall also include the removal and disposal (or salvage if so required by the Engineer) of fences, posts,

signs, structures and other obstructions that interfere with the work and that are not to be adjusted or relocated. Whenever clearing and grubbing within roadway is called for, this item shall include the clearing of additional widths within the right of way when so indicated on the plans. In all cases, the Contractor will be required to clear and grub the entire right of way provided at road intersections for sight areas, the entire right of way involved in traffic interchanges, except for items designated by the Engineer to remain, and the entire right of way at bridge sites as indicated hereinafter. The Clearing and Grubbing within Roadway shall include the clearing and disposing of tree tops, damaged trees and other debris within the right of way.

On contracts for Interstate grading projects, unless otherwise provided, the Contractor shall, in addition to clearing and grubbing within the construction lines, clear and grub a minimum distance of 30 feet each side from the edge of the proposed pavement along both lanes and legs of interchanges where the construction lines do not extend this amount.

The proposal for the construction of roads in the Secondary System may include one or more roads to be constructed as a Federal-Aid Secondary Project and one or more roads to be constructed as a State Secondary Project. In such cases, the plans for each road will indicate Clearing and Grubbing within Right of Way or Clearing and Grubbing within Roadway, as applicable. When applicable, the proposal will include a lump sum amount for Clearing and Grubbing within Roadway for all roads on which clearing and grubbing between the construction lines shall be required.

On all contracts, when Clearing and Grubbing within Right of Way is included in the proposal, the work shall include clearing and grubbing the entire right of way. Clearing and Grubbing within Right of Way shall also include all clearing and grubbing necessary where cut and fill slopes, as shown on the plans, extend beyond the right of way line. Trees, plant specimens or other objects considered valuable by ad-

adjacent property owners or aesthetically desirable and which are designated by the Engineer to remain, shall not be removed or damaged. Trees which are considered as being or resulting in merchantable timber and other objects or items herein described shall be removed. The Contractor shall, when Clearing and Grubbing within Roadway is included in the proposal, exercise care to avoid cutting, damaging or destroying any timber outside of the construction lines except as designated by the Engineer. Likewise, when Clearing and Grubbing within Right of Way is included in the proposal, the Contractor shall not cut, damage or destroy timber outside the right of way lines unless the plans or special provisions provide for clearing such other areas necessary to complete the work.

Unless otherwise provided in the proposal or on the plans, clearing and grubbing of the right of way will not be required on bridge widening contracts.

**201.03 Clearing and Grubbing.** Clearing and grubbing work shall be performed before other construction work in the same general area is started. Trees that overhang the roadway shall be trimmed carefully to give a clear height of 18 feet over the roadway. If required by the Engineer, trees of value to be removed shall be sawed into merchantable lengths not less than 5 feet and piled neatly at points within the right of way or in the vicinity of the project designated by the Engineer, and the Contractor will be held responsible for such timber for a reasonable period of time not to exceed thirty (30) days. Should the property owner not remove the timber from the project, the Contractor may be required to remove the timber prior to acceptance of the project.

Within areas where excavation is to be made and where embankments are to be constructed, the ground shall be cleared of all living or dead trees, brush, roots, weeds, leaves and all other objectionable material.

The area where the embankment is to be constructed to a

depth of less than 5 feet shall, in addition to the work as outlined above be cleared of all stumps.

All areas to be excavated shall be grubbed. Stumps allowed to remain under embankments shall not extend more than 8 inches above the ground line or low water level. Stump holes and other holes from which obstructions are removed, except in areas to be excavated, shall be backfilled with suitable material, and thoroughly compacted.

Unless otherwise provided for in the plans or special provisions for the project, Clearing and Grubbing within Roadway as herein described shall include the clearing of the entire right of way at all bridge sites within the extreme limits of the project. Clearing at bridge sites shall consist of cutting all trees, stumps, etc., to within 8 inches of the ground or to low water, and the removal and disposal of all logs, stumps, brush rubbish, etc., for the full width of the right of way and for a distance of 75 feet beyond the beginning and end of the proposed bridges. Clearing and Grubbing within Roadway shall include the grubbing of each proposed bridge site, such area being bounded by lines 5 feet beyond the outside edges of the proposed bridge and 10 feet beyond the beginning and end of the proposed bridge.

Clearing and Grubbing within Right of Way shall include the clearing and grubbing of the entire right of way at all bridge sites

All materials removed by the clearing and grubbing operation shall be removed from the project, burned or otherwise disposed of as specified or directed. Burning shall be performed under constant care of competent guards and shall be done in accordance with applicable laws and ordinances and as provided in Subsection **107.07**. Stumps and logs may be disposed of by depositing them off the right of way where they will not be visible from any public road. The disposal site shall be approved by the Engineer. The Contractor shall be responsible for obtaining disposal sites and securing any ap-

plicable State, Federal, County or City permits that may be required. The Contractor shall certify in writing to the Department that all permit requirements have been met before placing any material in a disposal area.

Brush, weeds and other designated vegetation, shall be re-cut immediately before final inspection if considered necessary by the Engineer.

**201.04 Method of Measurement.** When Clearing and Grubbing within Roadway or Clearing and Grubbing within Right of Way is shown in the proposal form as a lump sum, no measurement of the area of clearing and grubbing will be made.

Clearing and grubbing work performed outside the right of way on channel changes or ditches will be measured by the acre. The removal of weeds, plant stalks regardless of size or density, loose rock and small scattered trees will not be considered as clearing and grubbing, and no measurement or payment will be made for such work.

**201.05 Basis of Payment.** Clearing and grubbing performed within the roadway or right of way, as the case may be, including ditch areas, ramps, connections, sight areas, traffic interchanges, areas necessary for cut or fill slopes and at bridge sites, unless otherwise indicated, will be paid for at the contract lump sum price for the applicable item, which price and payment shall be full compensation for all labor, materials, equipment, tools, transportation and supplies required to complete the work in accordance with the plans, specifications and terms of the contract.

Whenever the quantity of clearing and grubbing required to be performed within the right of way or roadway is increased or decreased without an increase or decrease in length of the project as a result of changes made in the plans during construction, the Engineer will determine the number of acres of clearing and grubbing involved in such change.

The product of the area thus determined and the contract unit price per acre for Clearing and Grubbing Ditches will be added to or deducted from the contract lump sum price for Clearing and Grubbing within Right of Way, or Roadway, as the case may be.

When the total overall length of the road or roads in a contract is increased or decreased, adjustments will be made in the lump sum contract price of the Clearing and Grubbing within Roadway or the Clearing and Grubbing within Right of Way. The adjusted lump sum contract price shall be determined on a mileage basis. The unit price per mile shall be obtained by dividing the lump sum contract price for the clearing and grubbing item by the length of that part of the original contract in miles on which there was an item for Clearing and Grubbing. This unit price per mile will be multiplied by the length in miles of the increase or decrease in the length of the project. The resulting product shall be added to or subtracted from the lump sum contract price for Clearing and Grubbing within Right of Way, or Roadway, as the case may be.

Clearing and grubbing that is authorized by the Engineer to be performed outside of the right of way shown on the plans, except as otherwise provided for herein, will be paid for at the contract unit price for Clearing and Grubbing Ditches, which payment shall be full compensation for all materials, supplies, labor, equipment, tools, transportation, and incidentals necessary to satisfactorily complete the work.

Payment will not be allowed for clearing and grubbing of pits furnished by the Contractor. The expense of clearing and grubbing pits furnished by the Contractor will be included in the contract unit price of unclassified excavation, borrow excavation, earth type bases, etc.

When there is not an item in the proposal for clearing and grubbing work, all such work shall be done as herein provided and will be considered incidental to the other items of work

and no separate or additional compensation will be made therefor.

When obtaining right of way for certain projects, the Department may acquire ownership of the timber located thereon. In these instances, the Contractor's bid for Clearing and Grubbing within Roadway or Right of Way (as applicable) shall reflect a credit for the value of the merchantable timber. The successful bidder will have title to and be responsible for disposing of all timber that is required to be removed from the right of way.

Payment for each item includes all direct and indirect costs and expenses required to complete the work.

Payment will be made under:

Item No.	Pay Item	Pay Unit
2011000	Clearing and Grubbing within Right of Way	Lump Sum
2012000	Clearing and Grubbing within Roadway	Lump Sum
2013050	Clearing and Grubbing Ditches	Acre

## SECTION 202

### REMOVAL OF STRUCTURES AND OBSTRUCTIONS

**202.01 Description.** This work shall consist of the removal, wholly or in part, and satisfactory disposal of all buildings, fences, structures, old pavements, abandoned pipe lines and any other obstructions which are not designated or permitted to remain, except for the obstructions to be removed and disposed of under other items in the contract. It shall include, unless otherwise provided, the salvaging of all materials and backfilling the trenches, holes and pits. When the proposal