

ITEM 102

CLEARING AND GRUBBING

102.1 Description. This item shall consist of conducting clearing and grubbing operations within the project limits from right-of-way line to right-of-way line. For the purpose of this specification, the project limits shall include roadways, roadside ditches, channels, outfall ditches, detention ponds, and other drainage facilities, temporary and permanent easements and other areas as shown on the drawings. Clearing shall consist of removing all trees, brush, overhangs, logs, tires, appliances, trash, rubbish and other debris, including any deleterious materials, that exist within the limits of the project. Grubbing shall be as indicated in Section 102.2, paragraph three.

It shall be the responsibility of the Contractor to visit the project site and ascertain the clearing and grubbing requirements as included in the bid documents prior to submitting a bid on the project. Any necessary trimming of overhangs that encroach the right-of-way and interfere with the facilitation of construction or the operation or maintenance of the executed project shall be required and will not be paid for separately.

102.2 Construction Methods. The project limits shall be cleared of all trees, brush, stumps, overhangs, logs, rubbish, shrubs, and other trash. Items and certain areas designated by the Engineer for preservation shall be carefully protected from abuse, marring or damage during construction operations and preserved in accordance with the bid documents.

Parking and/or servicing of equipment, or stockpiling of all construction materials within 3-feet of the drip line of trees designated for preservation, will not be permitted.

On areas required for roadway, detention pond, channel, or structural excavation, grubbing shall be conducted to remove all stumps, roots, etc., to a depth of approximately 2-feet below the lower elevation of the excavation. On areas required for embankment construction, grubbing shall be conducted to remove all stumps, roots, etc., to a depth of approximately 2-feet below the existing ground surface. All holes remaining after clearing and grubbing shall be backfilled with suitable on site material and compacted to ninety five percent of Standard Proctor Density (ASTM Method D698) at a moisture content of between optimum and plus 3 percent of optimum as directed by the Engineer and the entire area bladed to prevent ponding of water and to provide drainage; except in areas to be immediately excavated, the Engineer may direct that the holes not be backfilled. On areas required for borrow sites and material sources, stumps, roots, etc., shall be removed to the complete extent necessary to prevent such objectionable matter becoming mixed with the material to be used in construction.

102.3 Disposal of Materials. All cleared and grubbed materials shall be disposed of off site. The Contractor shall be responsible for obtaining any

necessary disposal permits. The Contractor shall not bury any refuse on Harris County property. The disposal site shall not be an environmentally sensitive area, waters of the United States, wetlands, or floodway. It is the responsibility of the contractor to contact the proper authorities to determine land use classification and to obtain any necessary permits. If the disposal site is defined in the plans, then the County shall be responsible for ensuring that the appropriate Department of the Army permit has been obtained for the activity, as necessary. No burning shall be allowed unless otherwise noted.

The Contractor shall refer to Item 560 for schedule and frequency of cleanup of materials for disposal.

102.4 Limit of Operation. No clearing or grubbing shall be done outside the Project limits or the right-of-way. Any work done outside the Project limits or the right-of-way limits, for any purpose, shall be done at the Contractor's expense and it shall be the Contractor's responsibility to negotiate and secure the permission of the property owner for such operation. The Contractor shall provide sufficient evidence to Harris County that such permission has been obtained.

102.5 Schedule of Clearing. The Contractor shall schedule his clearing operations so that clearing has been completed for a distance of 2,000 feet ahead of any point where excavation is to be started. After starting excavation, the Contractor shall keep a minimum of 1,000 feet of cleared right of way ahead of the excavation operation.

102.6 Measurement & Payment. Clearing and grubbing will be paid for at the unit price bid per lump sum, acre, or station (100-foot), as designated in the proposal and/or drawings, and shall be full compensation for furnishing all labor, materials, permits, supervision, equipment and supplies required to complete all items of work specified herein.

Removal of concrete structures shall be measured and paid for in accordance with Items 104, "Removing Old Concrete" and 495, "Removing Old Structures".

Tree protection and tree trimming shall be measured and paid for in accordance with Item 501, "Tree Protection and Trimming".

There are line code(s), description(s), and unit(s) for this item.

**Note: This specification requires Other Standard Specifications**

- Item 104, Removing Old Concrete
- Item 200, Stripping
- Item 495, Removing Old Structures
- Item 501, Tree Protection and Trimming
- Item 560, Maintenance and Cleanup of the Project Site

END OF ITEM 102