

STATE

OF

TENNESSEE

(Rev. 10-7-24)

January 1, 2021

SPECIAL PROVISION

REGARDING

EMBANKMENT (COMPACTED IN PLACE)

Description

This work shall consist of constructing roadway embankments in accordance with the Standard Specifications except as modified herein. All work shall be performed in reasonably close conformity with the lines and grades shown on the plans or as directed by the Engineer and shall include roadway excavation, the furnishing of borrow material, the preparation of the area upon which embankments are to be placed, the placing and compacting of approved material within roadway areas, removal and replacement of unsuitable material, clearing and grubbing of borrow sites, transporting borrow material, and the transporting and waste, deposit, or disposal of excess excavation material as applicable.

Materials

Materials used in the construction of embankments shall meet the requirements of **205** unless otherwise specified on the plans.

Construction Requirements

Roadway excavation and embankment construction shall be performed in accordance with **203** and **205** respectively except as modified herein.

Perform all excavation indicated or described in the plans or directed by the Engineer. All suitable material obtained from the roadway excavation, bridge excavation, channel excavation or other excavation may be used in the formation of embankments. All additional material required for completion of the embankments shall be furnished by the Contractor from locations approved by the Engineer. All excess excavation materials not used in the formation of embankments shall be disposed of in accordance with **203.04**.

Unsuitable material encountered in the roadway excavation will be removed and disposed of in accordance with the Standard Specifications except that the unsuitable material will be measured and paid for under Embankment (Compacted in Place). No other material shall be removed from the project without the written consent of the Engineer except as provided for in the Plans and Specifications.

Topsoil shall be stripped and stockpiled in accordance with **203.06**. The Engineer may at his discretion measure and pay for topsoil prior to placing and spreading, however, such payment shall not exceed 50% of the estimated volume of the stockpile.

**Method of Measurement**

Embankment (Compacted in Place) will be measured by the cubic yard complete in place. Final volume of Embankment (Compacted in Place) will be computed using the average end area method and shall be based on original cross-sections taken after removal of topsoil and unsuitable material from the embankment areas and after placement of rock or other select material paid for under other items. Final cross sections will be taken on the completed embankment prior to placement of topsoil, mineral aggregate or other material which is paid separately. Boundaries of the embankment shall be the neat lines established by the slope stakes and the elevations shown on the plans or established by the Engineer. No measurement for payment will be made beyond these boundaries except as specified herein.

The centerlines, baselines or other lines shown on the Plans or established by the Engineer shall be used as reference lines for measurement of embankments. Cross-sections shall be taken from these reference lines at intervals not to exceed 50 feet.

The volume of embankment displaced by box culverts, box bridges, span bridges, and pipe(s) with cumulative diameter(s) of 60 inches or greater, the backfill required for the structures will be deducted from the embankment quantity.

The volume of embankment for retaining walls (Special Provision 624) shall be included in the backfill required and included in the embankment quantity. If the Contractor's design requires the use of select backfill, the volume shall be included in the embankment quantity.

Materials placed in the embankment area including but not limited to rock pads, sinkhole treatment and rock caps on subgrade which are paid for under other items will not be measured as part of the embankment.

Roadway excavation will not be measured on this project but shall be a responsibility to be assumed by the Contractor in connection with the pay item(s) specified herein.

**Basis of Payment**

The Department will pay for quantities of completed and accepted work, at the contract prices as follows:

<b>Item No.</b>	<b>Description</b>	<b>Unit</b>
203-10	Embankment (Compacted In Place)	Cubic Yard

Such payment shall be full compensation for furnishing all materials, placing and forming of embankments, all roadway excavation shown on the plans, clearing and grubbing of borrow pits, and all equipment, tools, labor, and incidentals necessary to complete the work.

Roadway excavation will not be paid for directly. The contract unit price for Embankment (Compacted in Place) shall be full compensation for all roadway excavation performed in accordance with the Plans and Specifications including the transportation and/or disposal of excess excavation materials not used on the project.

The select backfill material and unclassified backfill used behind the retaining walls shall be paid under the contract unit price for Embankment (Compacted in Place). If the Contractor's design requires the use of select backfill, there will not be any additional costs due to the use of select backfill material.

No additional payment will be made for undercutting at locations where the plans indicate undercutting is required. However, if the Engineer directs undercutting at locations not indicated on the plans, the unsuitable material removed will be measured by the cubic yard in its original location and paid for at 1.5 times the contract unit price bid for Embankment (Compacted in Place). Material used to replace unsuitable material will be measured and paid for under the appropriate contract item.