

**CITY OF MEMPHIS – STANDARD CONSTRUCTION SPECIFICATIONS**  
**SECTION 02315 EXCAVATION & FILL**

**PART 1 – SCOPE**

1.01 This work consists of excavating; disposal of unsuitable material from roadbed excavations; construction and removal of temporary detours ordered by the Owner. Excavation shall consist of the removal of all material shown on the Plans in cut sections or necessary undercutting as ordered by the Owner.

**PART 2 – EQUIPMENT**

2.01 All equipment for the satisfactory performance of excavation and hauling shall be on the project and approved by the Owner before the work will be permitted to begin.

**PART 3 – CONSTRUCTION REQUIREMENTS**

3.01 GENERAL

A. Prior to beginning excavation all necessary Clearing and Grubbing and Removal of Structures and Obstructions shall have been completed in the area in accordance with Sections 02220 and 02230 of these Specifications. The removal of unsuitable material and/or undercutting ordered by the Owner will not be considered contract items and these two operations will be included in either excavation (unclassified) or embankment (unclassified) respectively. Unsuitable material above subgrade or from undercutting in cuts shall be disposed of as directed by the Owner at no additional cost to the Owner. Any imbalance of material quantities caused by these operations or change in actual shrinkage factor shall be the Contractor's responsibility. The Owner's decision on the suitability of material or the need for undercutting shall be final.

B. If approved by the Owner, gravel for undercut backfill or stabilization and Portland cement for stabilization will be used and paid for as separate items in the contract.

C. When ordered by the Owner, water used for dust control will be paid for as a contract item.

D. The Contractor shall provide for proper drainage of the project area to protect from ponding and erosion.

3.02 EXCAVATION

A. Excavation (unclassified) shall consist of the removal of all suitable or unsuitable material in cut sections to the lines, grades, and cross-sections shown on the Plans. All slopes, ditches and berms shall be neatly trimmed to the lines given. Excavation beyond given lines or to correct slides, regardless of the location, will be at the Contractor's expense, and the suitability of the material from slides for embankment construction will be determined by the Owner.

B. Surplus excavated material, if determined to be suitable by the Owner, may be used to widen embankments or to flatten slopes or may be deposited in such other places and for such other purposes on the right-of-way as the Owner may approve. No payment to the Contractor shall be made for the placement of surplus excavated material. Materials unsuitable for construction of embankment or use as backfill shall be removed to off-site waste disposal areas. The Contractor shall secure waste disposal areas and dispose of surplus and unsuitable materials in such areas. It is the Contractor's responsibility to obtain written permission from the owners of all property(s) to be used for waste disposal areas prior to removal of material to disposal sites. The Contractor shall dispose of all materials on the sites to the satisfaction of the property owner(s).

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**PART 4 – MEASUREMENT**

- 4.01 A. Excavation (Unclassified) Excavation will be computed by the cubic yard and only in cut sections of the project. No measurement will be made for material from off the project required for the satisfactory completion of the project. Measurements will be made for excavation material in its original position by cross-sections and the average-end-area method. Original cross-sections and final cross-sections will be taken from the sections shown on the Plans. Excavation volumes so measured will not include an allowance for removal of material from the Contractor's stripping operation. No measurement will be made for excavation outside the project construction limits shown on the Plans or the removal of slides.
- B. Water. Water for dust control will be measured by the 1,000 gallon unit.
- C. Dredging. This item will be paid for on a lump sum basis and no measurement will be made.
- D. General. It is the intent of these Specifications to pay only for quantities of Excavation as shown on the Plans or Proposal. Plan changes in grade or project limits may alter payment to the limits allowed in the General Conditions of Division 0.

**PART 5 – PAYMENT**

5.01 Excavation (Unclassified)

A. Payment will be made at the contract unit price per cubic yard in its original position in cut sections which price will be full compensation for the excavation and hauling of acceptable materials to designated embankment areas and the disposal of excess or unacceptable materials off the project or as directed by the Owner.

5.02 Water

A. Water for dust control will be paid for at the contract unit price per 1,000 gallons (M.G.), which price will be full compensation for furnishing and distributing the water as directed by the Owner.

5.03 Dredging

A. Payment will be made for the work, completed and accepted by the Owner, at the contract lump sum price, which shall be full compensation for removal and disposal of debris.

5.04 Payment will be made under:

<u>Item No.</u>	<u>Pay Item</u>	<u>Pay Unit</u>
02315-01	Excavation (Unclassified)	Cubic Yard
02315-02	Water	M.G.
02315-03	Dredging	Lump Sum

**END OF SECTION 02315**