

626.9 - PAY ITEMS:

ITEM	DESCRIPTION	UNIT
626001- *	RETAINING WALL, CAST-IN-PLACE REINFORCED CONCRETE	SQUARE FOOT (METER)
626002- *	MSE RETAINING WALL , "vender name"	SQUARE FOOT (METER)

*Sequence number

627 THROUGH 630-BLANK

SECTION 631 ELECTRICAL WORK

631.1-DESCRIPTION:

This work shall consist of furnishing and installing electric motors, control panels, lighting systems, traffic control systems, conduits, and other electrical equipment and supplies in accordance with this Specification and as shown on the Plans.

631.2-MATERIALS:

The Contractor shall submit, in triplicate, an itemized bill of electrical equipment and materials, showing the rating, make, style, type, and catalog number of each item, which shall be approved by the Engineer before such equipment or materials are purchased or installed. The Contractor shall also submit for the approval of the Engineer, before beginning installation of conduit or electrical equipment, a complete wiring diagram for the work to be done, unless appropriate wiring diagrams are shown on the Plans. All equipment and materials shall meet the requirements of the National Electric Code and all local codes.

631.3-CONSTRUCTION METHODS:

All workmanship for electrical work shall be in accordance with the details shown on the Plans and with the requirements of the current National Electric Code in addition to any local codes as specified under Proposal Requirements.

631.4-METHOD OF MEASUREMENT:

Electrical work will be measured as a complete unit on a lump sum basis or in such units as indicated on the Plans, Proposal, or by Authorization.

631.5-BASIS OF PAYMENT:

Basis of payment will be the contract price bid for the item, which includes all labor, tools, equipment, supplies, and incidentals necessary to complete the work.

631.6-PAY ITEMS:

632.1

ITEM	DESCRIPTION	UNIT
631001-*	ELECTRICAL WORK	LUMP SUM

* Sequence number

SECTION 632 HORIZONTAL DRAINS

632.1-DESCRIPTION

This work shall consist of furnishing and installing plastic horizontal drains and associated plastic outlet pipes, in borings drilled into the faces of cuts, fills, and retaining walls. The installation shall be at locations and at angles as shown on the Plans or directed by the Engineer during construction and shall be in accordance with these Specifications. This work shall also consist of constructing terminal chambers, or collector pipes, when required, in accordance with these Specifications.

632.2-MATERIALS:

632.2.1 - Horizontal Drains: Horizontal drains shall be constructed of slotted and solid plastic pipe. The pipe shall consist of nominal 1½ inch I.D. Schedule 80, Type II PVC 2110 pipe conforming to the requirements of ASTM Designation D 1785.

The pipe shall have three rows of slots cut circumferentially in the pipe on the third points (120 degrees apart). The average configuration shall be from 22 slots, plus or minus one slot, per row per foot (300 mm) using 0.050 inch (1 mm) slots, to 46 slots plus or minus one slot, per row per foot (300 mm), using 0.010 inch (250 µm) slots. The number and width of slots will be as specified on the Plans or as approved by the Engineer depending upon the type of soil or rock. Perforated pipe shall not be used.

Solvent cement shall meet the requirements of ASTM D 2564.

632.2.2 - Terminal Chamber: Horizontal drain terminal chambers shall be constructed of 48 inch (0.109" Th.) (1200 mm (2.7 mm)) metallic coated corrugated steel pipe meeting the requirements of [713.2](#).

Concrete used for the chamber foundation and incidentals shall meet the requirements of [715.12](#).

Pipe used to drain the chambers shall meet the requirements of [714.22](#).

632.2.3 - Collector Pipes: Collector pipes, if any, shall be nominal 1½ inch unslotted or unperforated PVC pipe meeting the requirements of [714.22](#).

Fittings for collector pipes shall be rigid PVC, Type II, high impact fittings and shall be the solvent weld type. The fittings shall have a bursting pressure equal to or exceeding that of the pipe.

632.3 - GENERAL:

The Contractor shall provide a method to determine the end elevations of