

ITEM 08604.0750 M - REBUILDING DRAINAGE STRUCTURES (LESS THAN 2 METERS DEEP)

ITEM 08604.0751 M - REBUILDING DRAINAGE STRUCTURES (2 METERS DEEP OR GREATER)

DESCRIPTION:

This work shall consist of rebuilding drainage structures as shown on the plans or as directed by the Engineer.

MATERIALS:

Unless specifically designated on the plans and/or in the proposal, the contractor shall have the option of rebuilding the drainage structures with Cast-In-Place Concrete - Class A, or Precast Concrete Drainage Units meeting the requirements of Section 706-04 of the Standard Specifications. Bar Reinforcement shall meet the requirements of Section 709-01 of the Standard Specifications.

CONSTRUCTION DETAILS:

Excavation shall be performed in accordance with the requirements of Section 206-3 of the Standard Specifications.

The existing wall material shall be removed to the depths as shown on the plans or as directed by the Engineer. All walls of each individual drainage structure shall be removed to the same elevation, which shall be the lowest elevation of deterioration of any one wall as determined by the Engineer. Dimensions of each rebuilt drainage structure shall be the same as the existing drainage structure unless otherwise shown on the plans or directed by the Engineer.

If rebuilding is accomplished using cast-in-place concrete, the concrete construction shall conform to the requirements of Section 555 of the Standard Specifications. The walls shall be formed and poured full depth in one operation. Depending on soil conditions, and where approved by the Engineer, the contractor will be allowed to pour against the undisturbed soil.

Backfill material shall be as shown on the plans.

Frames, covers or grates shall be cleaned and reset unless otherwise shown on the plans or directed by the Engineer. Any frames, covers or grates to be reset which are broken through carelessness on the part of the contractor, shall be replaced at the contractor's expense.

Existing rungs shall be cleaned and reset.

Any pavement replacement shall be as shown on the plans.

METHOD OF MEASUREMENT:

This work will be measured by the number of linear meters of height of drainage structure rebuilt measured to the nearest tenth of a meter from the bottom of the new wall to the top of the grate.

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BASIS OF PAYMENT:

The unit price bid per linear meter shall include the cost of all labor, equipment and materials necessary to complete the work including all necessary excavation, sheeting, bar reinforcement, replacement of any shoulder courses, sidewalk courses, subcourses, curbs, drives, lawns and other surfaces, cleaning and resetting rungs, frames, covers and grates, except as follows:

- A. Necessary sawcutting will be paid for under the sawcutting item as shown on the plans.
- B. Necessary backfill material will be paid to the pay limit as shown on the plans. However, due to soil conditions, excavation beyond the pay limit may be necessary. Payment for the additional backfill shall be subject to the approval of the Engineer.
- C. New frames, covers and grates called for on the plans will be paid for under the appropriate payment items listed in Section 655 of the Standard Specifications.
- D. Cleaning of the structure will be paid for under the item for cleaning existing catch basins, manholes, field inlets and drop inlets.
- E. Necessary pavement replacement will be paid under the item(s) as shown on the plans.