

SECTION 02732**PRECAST ELECTRICAL HANDBOXES****02732.01 GENERAL****A. Description**

Reinforced concrete electrical handboxes shall include, but not necessarily be limited to, the furnishing and installing of reinforced concrete electrical handboxes as shown on the Plans and in accordance with the Contract Documents or as directed by the Engineer.

B. Related Work Included Elsewhere

1. Adjusting utility structures; Section 02140.
2. Removal of existing pavement, sidewalk, curb and combination curb and gutter; Section 02160.
3. Structure excavation; Section 02220.
4. Selected backfill; Section 02245.
5. Trench excavation, backfill, and compaction; Section 02250.
6. Contingent Temporary Accommodation of Traffic Graded Aggregate, Bituminous Concrete, Calcium Chloride; Section 02951
7. Contingent Patching Existing Pavement Bituminous Concrete, Portland Cement Concrete; Section 02952
8. Contingent Excavation Test Pit, Class 1A, Class 3A; Section 02953
9. Contingent Backfill Graded Aggregate, Selected, Borrow, Embankment; Section 02954
10. Contingent Excavation Support Timber Sheeting, Steel Sheeting; Section 02955
11. Contingent Underdrains; Section 02956
12. Contingent Cast-in-place Concrete Mix No. 1, Mix No. 3; Section 02957

C. Quality Assurance

The Engineer will inspect all materials and work to ensure compliance with the Contract Documents.

D. Submittals

Submittals shall be as specified in Section 02730.01.

02732.02 MATERIAL

A. Materials Furnished by the County

The County will not furnish any materials for reinforced concrete electrical handboxes.

B. Contractor's Options

Contractor may utilize precast electrical handboxes listed on the Maryland Department of Transportation's (MDOT) Qualified Product List..

C. Detailed Material Requirements

1. Reinforced Concrete Pipes

Reinforced concrete pipes for use as electrical handboxes shall meet the requirements of AASHTO M 170, Class IV.

2. Handbox Frames and Covers

Gray iron castings for handbox frames and covers shall meet the requirements of ASTM A 48, Class 30B.

02732.03 EXECUTION

A. Excavation

Excavation shall be performed as nearly as practicable to the outside dimensions of the handboxes or to the minimum size required to suit the equipment for jacking or auguring the rigid duct under the roadway surface.

B. Backfill

After the handboxes are set to proper grades, excavated spaces around the boxes shall be backfilled with suitable material as indicated on the Plans. The backfill shall be placed and thoroughly compacted in 8-inch layers to the satisfaction of the Engineer.

02732.04 METHOD OF MEASUREMENT

Measurement for electrical handboxes will be made of the number of each type and size satisfactorily installed in accordance with the Contract Documents.

02732.05 BASIS OF PAYMENT

A. General

Payment will be made for contingent items when ordered by the Engineer. Payment will be as specified in Sections 02951, 02952, 02953, 02954, 02955, 02956, and 02957.

B. Electrical Handboxes

Payment for electrical handboxes will be made at the price bid each, for the size and type installed complete in place. The price bid shall include furnishing and installing the handboxes, including all excavation, backfill, and compaction; frame and cover; concrete; and all materials, labor, and equipment necessary to complete this item of work as shown and specified in strict accordance with the Contract Documents.

END OF SECTION