

**SECTION 02956**  
**CONTINGENT UNDERDRAINS**

**02956.01 GENERAL**

**A. Description**

Contingent materials for underdrain installation shall be furnished and installed only where and to the limits directed by the Engineer. The work shall include trench excavation and furnishing and installing pipe, filter fabric, and granular filter material in accordance with the Contract Documents.

**B. Related Work Included Elsewhere**

1. Protection of the Environment; Section 01500.
2. Trench Excavation, Backfill, and Compaction; Section 02250.

**C. Quality Assurance**

Quality assurance shall be as specified in Section 02510.01.

**D. Submittals**

Submittals shall be as specified in Section 02510.01.

**02956.02 MATERIALS**

**A. Materials Furnished by the County**

The County will not furnish any materials for underdrain construction.

**B. Contractor's Options**

The Contractor may furnish any of the pipe materials specified in Section 02510.02 unless otherwise noted on the Contract Drawings.

**C. Detailed Material Requirements**

Detailed material requirements for underdrains shall be as specified in Section 02510.02.

**02956.03 EXECUTION**

Execution shall be as specified in Section 02510.03.

**02956.04 METHOD OF MEASUREMENT**

Measurement for furnishing and installing underdrains will be made for each size of pipe installed to the limits directed by the Engineer. Measurement will be made of the actual length of underdrain installed, complete in place and accepted, measured horizontally along the centerline of the pipe from end to end.

**02956.05 BASIS OF PAYMENT****A. General**

1. Payment will be made at the bid or fixed price stipulated in the Proposal. The payment will include and cover furnishing all labor, tools, equipment, and materials necessary to complete the work as directed and accepted by the Engineer in accordance with the Contract Documents.
2. Payment for furnishing and installing underdrains will include the following:
  - a. Trench excavation, backfill, compaction, and incidental items as specified in Sections 02510.03 and 02550.
  - b. Furnishing and installing aggregate backfill and filter fabric as shown on the Plans and required by the Specifications.
3. Payment will be made only for underdrains installed at the direction of the Engineer which are beyond the limits indicated on the Plans. No payment will be made for underdrains installed for the Contractor's convenience or beyond the limits ordered by the Engineer.

**B. Underdrains**

Payment for furnishing and installing underdrains, complete and operational, will be made per linear foot of pipe for each size and type of pipe installed. Payment will include furnishing and installing all pipe, couplings, and bands, and all other incidental work necessary to make the underdrains operational.

END OF SECTION