

ITEM 402

BANK SAND BACKFILL

- 402.1 Description. This item shall consist of the furnishing, placing, manipulation, compacting and completing in-place, Bank Sand as a bedding and backfill material for water and sewer lines, as construction fill for certain excavation areas, as construction fill for ruts, holes and other similar conditions; as a fill material for project clean-up and as directed by the Engineer. Bank sand shall be in accordance with these specifications and in conformity with the lines, grades and cross-sections shown on the plans and as directed by the Engineer.
- 402.2 Materials. Bank sand is to be free of organic matter, foreign material, clay balls, sticks, foreign objects and other objectionable material.
- Bank sand shall have a plasticity index less than 3 and shall meet the following gradation:
- 100 percent passing a 3/8-inch sieve,  
5 to 30 percent passing a No. 200 sieve.
- Prior to use, Contractor shall identify the source of the proposed bank sand for testing.
- 402.3 Construction. After the water line, sewer line or other similar construction item, such as a trench, has been excavated and brought to grade, bank sand shall be furnished, placed, compacted complete in-place, either as bedding or backfill material, as shown on the plan, described in these specifications or as directed by the Engineer. After the trench or excavation has been brought to grade, the bank sand shall be placed and compacted as a bedding material, the construction item shall be placed and joined properly around and over that construction item as required and as shown on the plans, described in the specifications or directed by the Engineer.
- Bank sand shall be placed in layers not exceeding 8-inches. It shall be compacted with mechanical vibratory tamps to maximum dry density in accordance with ASTM Method D698 at a moisture content ranging from optimum to three percentage points above optimum. Water flooding will not be permitted.
- 402.4 Testing. The Testing Laboratory's representative will determine the moisture density relationship for each material proposed for use as backfill, in accordance with ASTM Method D698. In place density will

be determined in accordance with ASTM Methods D2922 or D1556, and with each type of construction.

For walls and trenches, determine the in place density for each 200 feet of wall or trench, for each lift of fill placed.

402.5 Measurement. No separate payment shall be made for work performed under this Item, except as indicated below. Include the cost of same in the price bid per linear foot of pipe, or wall, for which this work is a component.

402.6 Payment. "Extra Bank Sand Backfill", where required, will be measured by the cross-sectional method in its compacted position and paid for at the contract unit price bid per cubic yard. Payment under this bid item is limited to such additional bank sand backfill not shown on the plans that may be required.

There are line code(s), description(s), and unit(s) for this item.

END OF ITEM 402

SUMMARY SHEET

ITEM 402 - BANK SAND BACKFILL

Other Specifications Required

Item 430, Construction of Underground Utilities

Reference Standards

1. ASTM D698

Description:

Discusses the requirements for and the placement of bank sand backfill.

Payment:

Not paid for except as "Extra Bank Sand Backfill", then paid for by the cubic yard, in-place.

DO NOT INCLUDE THIS SHEET IN CONTRACT SPECIFICATIONS