

ITEM 11603.04 M - VITRIFIED CLAY PIPE SANITARY SEWER

DESCRIPTION

This work shall consist of furnishing and installing Vitrified Clay Pipe and fittings of the size and at the locations shown on the plans or as ordered by the Engineer.

MATERIALS

Vitrified clay pipe shall conform to all the requirements of ASTM C700 except that when tested for absorption the initial drying period of the specimens shall be 48 hours at temperature of 110° C. Pipe under 300 mm in diameter shall meet the strength requirements in Table for Standard Strength Clay Pipe found in ASTM C700. Pipe 300 mm and over in diameter shall meet the strength requirements in Table 1 for Extra Strength Clay Pipe found in ASTM C700.

Acceptance of this material will be based on the manufacturer's certification of compliance with these specification requirements. The Department reserves the right to sample and test delivered material.

CONSTRUCTION DETAILS

Excavation

The requirements specified in Section 206, Trench, Culvert and Structure Excavation, that apply to storm drains shall govern, except for modifications on the plans, the standard sheets or as directed by the Engineer.

Laying Pipe

All pipe shall be laid in reasonably close conformity to line and grade and shall have a full, firm and even bearing at each joint and along the entire length of pipe. Pipe laying shall begin at the downstream end and progress upstream. Any single run of pipe, including end sections, shall consist wholly of the same material unless otherwise directed by the Engineer.

Damaged Pipe and Repair

Pipe that is damaged or disturbed through any cause occurring prior to acceptance of the contract, shall be repaired, realigned or replaced as directed by the Engineer and at no expense to the State. Pipe which is defective from any cause, including damage caused by handling and determined by the Engineer as unrepairable, shall be unacceptable for installation and shall be replaced as directed by the Engineer and at no cost to the State.

Joints

Joints shall be formed using a joint material meeting the requirements of ASTM C425.

METHOD OF MEASUREMENT

This work will be measured as the number of meters (laying length) of Vitrified Clay Pipe furnished and incorporated in the work in accordance with the plans, specifications and as directed by the Engineer.

BASIS OF PAYMENT

The unit bid price for Vitrified Clay Pipe Sanitary Sewer shall include the cost of furnishing all labor, materials and equipment necessary to complete the work.

Excavation, granular fill and backfill will be paid for separately under their appropriate items in Sections 203 and 206, as applicable.

Progress payments will be made at the unit price bid for 80 percent of the quantity of pipe installed. The remaining 20 percent will be paid for when the testing of the system has been completed.