

ITEM 010140

Item 0101401 - 6" P.V.C. PIPE

Item 0101402 - 8" P.V.C. PIPE

Item 0101403 - 10" P.V.C. PIPE

Item 0101404 - 12" P.V.C. PIPE

Item 0101405 - 15" P.V.C. PIPE

Item 0101406 - 18" P.V.C. PIPE

Item 0101407 - 24" P.V.C. PIPE

DESCRIPTION

Work under this item shall consist of excavation, furnishing and installing (6", 8", 10", 12", 15", 18" and 24") perforated or solid poly-vinyl chloride pipe (PVC) and fittings to line and grade; connections to existing or proposed catch basins, manholes or sewer lines; furnishing and installing acceptable warning tape, and furnishing and placing and compacting new material under, around and above the pipe as stated below.

REFERENCED ITEMS

Item 0100801 and 0103501

REQUIRED SUBMITTALS

Material Certificate of Compliance:

Submit 5 copies of material certificate of compliance for PVC pipe in accordance with the contract general requirements.

Certified Test Report:

Submit 5 copies of certified test reports for PVC pipe and filter fabric in accordance with the general requirements.

MATERIALS

Pipe shall be PVC sewer and drain pipe SDR-35 and shall conform to ASTM Specification D-3034-04.

Crushed stone shall conform to the material requirements of Item 0100801.

Bank run gravel shall conform to the material requirements of Item 0103501.

Filter fabric shall conform to the material requirements of Item 0100801.

CONSTRUCTION METHODS

Excavation for PVC pipe shall conform to the construction specifications for street excavation of the CITY OF HARTFORD, RULES AND SPECIFICATIONS REGULATING CURB AND WALK LAYERS AND STREET EXCAVATIONS.

Excavation shall include all trench work; digging, dewatering and bracing as necessary, support of other utilities crossed, removal and disposal of surplus material, etc. The Contractor shall furnish and employ such shores, braces, sheeting, pumps, etc., as may be necessary for the protection of property for proper completion of the work. Excavation shall be at least 6" below bottom of pipe. (In certain areas tree roots or stumps will have to be removed from the line of the pipe to be laid. The price for such removals shall be included in this item of works.)

Backfill shall consist of at least 6" of 3/4" crushed stone placed as foundation to the bottom of the pipe. Crushed stone shall consist of sound, tough, durable crushed particles, clean and free from dust, clay, loam or of the foreign stone such as brownstone or clay, and of the following gradation:

Square Mesh Sieve Size	Percent by Weight
1"	100
3/4"	90 - 100
1/2"	20 - 50
3/8"	0 - 20
#4	0 - 5

Crushed stone shall be placed as backfill around the pipe to 12" above pipe. Filter fabric shall be placed in the prepared trench to cover the bottom, sides, and top of the crushed stone before placing any additional backfill. The rest of the trench shall be backfilled with bank run gravel to the proposed subgrade elevation and compacted in lifts not to exceed 12 inches.

No additional payment for bank run will be made, and the cost of furnishing and placing bank run gravel shall be included in the linear foot price for pipe.

All pipe installations shall be done under supervision of the Department of Public Works. If perforated pipe is specified, perforations to be placed up for pipes which also carry surface water and down for pipes which carry only subsurface water.

METHOD OF MEASUREMENT

This work will be measured for payment by total number of linear feet of PVC pipe completed and accepted in place measured through all fittings.

BASIS OF PAYMENT

This work will be paid for at the contract unit price per linear foot for “(SIZE) PVC PIPE” or “(SIZE) PERFORATED PVC PIPE”. Said price shall include all materials, fittings, excavation, furnishing and placing new gravel backfill, furnishing and installing acceptable warning tape, connection to catch basin, sewer main or manhole, disposal of unused excavated material, equipment, tools, labor and incidental expenses. If perforated pipe is specified on the plans, it shall be included in the work and payment will be made at the appropriate contract unit cost price per lineal foot shown below.

<u>PAY ITEM</u>	<u>DESCRIPTION</u>	<u>PAY UNIT</u>
0101401	6" PVC Pipe	LF
0101402	8" PVC Pipe	LF
0101403	10" PVC Pipe	LF
0101404	12" PVC Pipe	LF
0101405	15" PVC Pipe	LF
0101406	18" PVC Pipe	LF
0101407	24" PVC Pipe	LF