

ITEM 918 SANITARY HOUSE CONNECTION SERVICE

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918.01 Description. This work consists of the construction of the sanitary house connection service from the wye fitting on the main line lateral sanitary sewer to the building drain adapter complete in place. This work includes; excavating for the pipe and the bedding for same, including clearing and grubbing, fill or embankment, and the removal of all materials necessary for placing the pipe, except removals listed separately; furnishing and placing the bedding, concrete backing or encasement, and granular or concrete backfill as required; constructing and subsequently removing all necessary cofferdams, cribs and sheeting; removing water; installing all pipe joints; furnishing and installing all necessary pipe of the types specified or shown on the plans; joining to existing and proposed sewers and plumbing appurtenances as required; furnishing and placing of Y-Poles; restoring disturbed facilities and surfaces; maintaining traffic, drainage, and existing structures; and servicing abandoned connections, all as shown on the drawings and as specified.

918.02 Materials. Provide pipe of the size and type specified in the proposal and shown on the plans and meeting the requirements of the relevant specifications listed in this section. If the kind of pipe is not specifically itemized in the proposal or shown on the plans, use any of the following types of pipe.

Connect sanitary house connection services requiring installation from an existing main line lateral sewer to the existing sewer or appurtenance with the same material fitting or with a flexible adapter approved by the Engineer. Ensure the connection produces as tight a joint between the existing and proposed work as that specified for the sanitary house connection service pipe joint.

Use the following specific materials:

1. Stone or gravel bedding - No. 57 or No. 8 703
or compacted granular material 912.02
2. Concrete for backing and backfill - Class A .. 499, 905
3. Extra strength vitrified clay pipe 706.08
4. Non-reinforced concrete pipe 706.01
5. Poly vinyl chloride (PVC) sewer pipe 720
6. Ductile iron pipe 801.03

918.03 Excavation. Perform excavation work in accordance with Section 901.03.

918.04

918.04 Bedding. Provide pipe with a bed of granular material extending from a point 4 inches (102 mm) below the bottom of the pipe to 12 inches (305 mm) above the outside top of the pipe as shown on the Standard Drawing.

Place a cut off trench dam of native clay or impervious soil across and along the trench upstream from the main line sewer connection to retard and resist the movement of groundwater through the trench granular bedding or backfill material in accordance with the Standard Drawing. Compact the trench dams to 6 feet (1.8 m) in length, as measured along the service centerline and constructed against the undisturbed trench sides from the subgrade or bottom of the Stone Foundation, whichever is lower, to a limit of 36 inches (0.9 m) over the top of the pipe.

918.05 Laying Pipe. Lay pipe in accordance with Section 901.12. Do not horizontally bend flexible conduits. Do not use horizontal or vertical 90 degree fittings. Use elbows to change direction having at least 1 foot (0.3 m) of nipple exposed between fittings.

Plug the end of the sanitary house connection service, installed for future use, with an approved stopper to prevent ground water infiltration.

At the end of the service, set a Y-Pole made of timber not less than 4 inch by 4 inch (100 by 100 mm) pressure-treated or hardwood in section with the timber in good condition, straight, sound, and free from large or loose knots. Extend the Y-Pole to a point above the backfill. After the Engineer has located the Y-Poles, cut off the Y-Pole to a point slightly below the original ground surface. Brace the Y-Pole to hold it firmly in position during backfilling. If the Y-Pole gets pulled out or bent over, dig down to its end and replace or straighten the Y-Pole. Place the Y-Pole adjacent to the end of the service, but not on it.

Use sanitary house connections crossing watercourses with five mil thick polyethylene-wrapped ductile iron pipe unless otherwise approved by the Engineer. Extend the pipe 10 feet (3.0 m) beyond both banks of the watercourse.

918.06 Pipe Joints. Provide joints for sanitary house connection service lines in accordance with the following:

<u>Material</u>	<u>Joint Specifications</u>
1. Vitrified clay pipe	901.15
2. Concrete sewer pipe	901.15
3. Ductile iron pipe.....	901.15
4. PVC plastic pipe.....	901.15

918.07 Backfilling. Perform backfilling work in accordance with Section 901.17.

918.08 Surface Soil and Restoration of Surfaces. Perform surface soil and restoration of surfaces work in accordance with Section 901.18.

918.09 Service Connections Abandoned. If abandoning a sanitary house connection service, cut, cap, or plug at one of the following locations:

1. At the R/W line
2. Inside the existing sewer easement.
3. No closer than 5 feet (1.5 m) of the existing building foundation.

Perform service connection abandonment work at locations as shown on the plan or otherwise as directed by the engineer.

918.10 Method of Measurement. The Engineer will measure the length of sanitary house connection service on the centerline of the pipe as constructed from the wye fitting to the end of the sanitary house connection service. This measurement includes all fittings except wyes.

918.11 Basis of Payment. The City will pay accepted quantities of sanitary house connection service, including furnishing and placing the Y-Pole, at the contract unit prices per linear foot (meter), complete in place.

The City will pay under:

Item	Unit	Description
918	Linear Foot (Meter)	____ Inch (mm) Diameter Pipe, Sanitary House Connection Service
918	Each	Service Connections Abandoned