

## 900 SEWERAGE WORK

### ITEM 915 - WYEs, FITTINGS AND CLEAN-OUTS

#### 915.01 Description

#### 915.02 Materials

#### 915.03 General

#### 915.04 Method of Measurement

#### 915.05 Basis of Payment

**915.01 Description.** This work shall consist of furnishing and installing plugged Wye fittings in the sewer where shown on the plans or directed by the Engineer and as specified herein. The Wye fitting shall be of the type specified or shown on the plans and shall be of the same type of material as the lateral sewer, or as directed by the Engineer. Clean-outs shall be constructed according to the standard drawing and shall be of the same type of material as the lateral sewer, or as directed by the Engineer. The maximum cleanout spacing shall be 100 feet (30 m).

Risers, Item 914, shall be installed when the depth exceeds 10 feet (3.0 m) from the lateral sewer fitting to a point 9 feet (2.7 m) plus or minus 1 foot (0.3 m) from existing or proposed surface elevation, whichever is higher.

**915.02 Materials.** All materials furnished and installed in accordance with the plans or as directed shall conform in all respects to the applicable provisions of Items 901 and 914.

**915.03 General.** The insertion of fitting connectors into all pipe sewers shall be done by the Contractor in a manner satisfactory to the Engineer.

If a fitting connection is to be installed as a part of the construction of a new sewer line, the connection shall be made by installing a prefabricated solid wye fitting pipe section. The wye section shall be made of the same material as the main line sewer. *For flexible sewers 18 inches (457 mm) and larger, the connection shall be made by installing an insert-a-tee fitting or an approved equal in accordance with the manufacturers direction.*

The end of each fitting shall be securely sealed with a stopper or cap which shall be installed so that the closure is water tight and so that the stopper or cap can be later removed without damage to the gaskets.

Above each sewer fitting the Contractor shall set a 2 inch by 2 inch (50 x 50 mm) pole extending to a point above the partial backfilling. The pole shall be braced in such a manner as to hold it firmly in position during complete backfilling. After the Engineer has located the poles, the Contractor shall, at his own expense, cut off the pole to a point slightly below the original ground surface.

The following connections are acceptable for use into existing city sewer main lines:

**Clay Main Line.**

1. Insert clay wye into main by using a Fernco, or approved equal, clay to clay coupling.
2. Insert a clay wye/saddle into the main and concrete encase the saddle connection.
3. Insert a PVC wye connection into the main using a Fernco-Clay to PVC coupling.
4. *Core drill and install an insert-a-tee fitting.*

**Concrete Main (15 inch (381 mm) and under).**

1. Insert a clay wye into the main by using a Fernco, or approval equal, concrete to clay coupling.
2. Insert a PVC wye into the main by using a Fernco, or approved equal, concrete to PVC coupling.

When a sewer tap is to be made into an existing PVC pipe sewer, it shall be made by installing a prefabricated solid PVC Wye fitting pipe section with Fernco couplings, *insert-a-tee* or an approved equal.

When a sewer tap is to be made into an existing concrete pipe of 18 inches (457 mm) or larger in diameter, the concrete main line sewer shall be core drilled and a Kor-n-Tee boot or an approved equal shall be installed in accordance with the manufacturers directions. The connection shall be completed in accordance with the standard drawings.

When a sewer tap is to be made into an existing sewer not covered in the above requirements, the tap shall be made in a manner approved and directed by the Engineer.

**915.04 Method of Measurement.** The number of Wye fittings or clean-outs of each kind shall be those installed and accepted.

**915.05 Basis of Payment.** The number of each kind of fitting accepted will be paid for at the contract unit price for each.

Payment will be made under:

<b>Item</b>	<b>Unit</b>	<b>Description</b>
915	Each	_____ Inch (mm) x 6 Inches (mm) Diameter Wye Fitting
915	Each	_____ Inch (mm) x 6 Inches (mm) Diameter <i>Insert-a-Tee</i> Fitting
915	<i>Each</i>	_____ <i>Inch (mm) x 6 Inches (mm) Diameter Kor-N-Tee Fitting</i>
915	Each	Clean-out