

SECTION S601 - SEWER LATERAL AND CONNECTION

S601 GENERAL

Work is to be in accordance with requirements of Section R601 Sewer Lateral and Connection, with following modifications:

References to NYSDOT specifications are to be in accordance with latest edition of *NYSDOT Standard Specifications (US Customary Units)*.

S601-2 MATERIALS

At end of Section R601-2 Materials, **ADD** following:

S601-2.10 Polyvinyl Chloride Branch

Polyvinyl chloride (PVC) wye and tee branches are to be SDR35 PVC gasketed fittings in accordance with requirements of ASTM D3034.

S601-2.11 Inserta Tee

Inserta tee is to be three piece compression fitted cored connection consisting of SDR35 PVC gasketed hub, rubber sleeve and stainless steel band, in accordance with requirements of ASTM D3034 and ASTM F477.

S601-2.12 Cement Mortar

Cement mortar for plugging abandoned lateral pipe is to be regular cement mortar, Type II cement.

S601-3 CONSTRUCTION DETAILS

DELETE Subsection R601-3.05C Lateral Connection to Existing Lateral in its entirety, and **REPLACE** with following:

C. New Lateral Pipe Connection to Existing Lateral Pipe

Remove sufficient length of existing lateral pipe to make proper connection. Connect new lateral pipe to existing lateral pipe with new flexible rubber joint connector with stainless steel shear rings and stainless steel shear bands. New lateral pipe is to be field cut to obtain square plain ends at right angles to line of lateral pipe. Replace additional length of existing lateral pipe as directed by Project Manager if existing lateral pipe is found to be unstable or otherwise damaged.

At end of Subsection R601-3.06 Branch Connections, **ADD** following:

D. Polyvinyl Chloride Branch at New Sewer Pipe

Polyvinyl chloride (PVC) branches are to be installed along with installation of new sewer pipe. New or existing lateral pipe is to be connected to branch.

E. Inserta Tee Connection to Existing Sewer Pipe

Opening for inserta tee connection must be made by coring hole in existing sewer pipe, pneumatic devices or hammering knock-out methods are not acceptable for creating opening. Size of cored opening is limited to one-half nominal diameter of existing mainline sewer pipe.

Face of existing sewer pipe to be cored is to be exposed from crown to invert for minimum length of 12 inches along sewer pipe. Take necessary precautions to prevent damage to existing sewer pipe, and to prevent debris from entering sewer pipe. Core is to be made minimum of 6 inches away from existing sewer pipe hubs. Before making connection, thoroughly clean opening and surface of sewer pipe of all foreign matter and loose particles.

At end of Section R601-3 Construction Details, **ADD** following:

S601-3.07 Abandon Existing Lateral Pipe

Existing lateral pipe is to be abandoned in place and open end plugged.

Where existing lateral pipe is connected to structure, connection is to be abandoned by plugging lateral pipe at structure, and mortaring over opening in structure with cement mortar.

Where existing lateral pipe is open ended, open end is to be abandoned by plugging lateral pipe. If necessary, remove short section of existing lateral pipe before abandoning lateral pipe.

Where existing lateral pipe is 6 inch diameter and smaller, insert rubber gasketed mechanical type permanent plug into open end of lateral pipe. Where existing lateral pipe is over 6 inch diameter, fill open end with brick until opening is plugged as much as possible. Completely fill and seal any remaining void with cement mortar.

S601-4 METHOD OF MEASUREMENT

At end of Section R601-4 Method of Measurement, **ADD** following:

S601-4.05 Polyvinyl Chloride Branch and Inserta Tee

Quantity to be measured for payment will be number of wye or tee branches, or inserta tee connections installed.

S601-4.06 Abandon Existing Lateral Pipe

Quantity to be measured for payment will be number of lateral pipes abandoned.

S601-5 BASIS OF PAYMENT

At end of Subsection R601-5.05 Branch Connections, **ADD** following:

D. Polyvinyl Chloride Branch at Existing Sewer Pipe - Installed

Unit price bid includes cost of: excavation; backfill; stone bedding; select granular backfill (sewer); full pavement or pavement base restoration; sheeting; shoring; maintenance of sewage flow; pumping; bailing; furnishing and installing polyvinyl chloride branch; preparing and cutting existing sewer pipe; connecting polyvinyl chloride branch to existing sewer pipe; flexible connector couplings; stainless steel shear bands; replacing any portion of existing sewer pipe damaged during work; connecting lateral pipe to branch; and furnishing all labor, material and equipment necessary to complete work.

E. Polyvinyl Chloride Saddle Branch at Existing Sewer Pipe - Installed

Unit price bid includes cost of: excavation; backfill; stone bedding; select granular backfill (sewer); full pavement or pavement base restoration; sheeting; shoring; maintenance of sewage flow; pumping; bailing; furnishing, installing and sealing polyvinyl chloride saddle branch; preparing existing sewer pipe; coring hole in existing sewer pipe; connecting polyvinyl chloride saddle branch to existing sewer pipe; epoxy mortar; replacing any portion of existing sewer pipe damaged during work; connecting lateral pipe to branch; and furnishing all labor, material and equipment necessary to complete work.

F. Polyvinyl Chloride Branch at New Sewer Pipe

Unit price bid includes cost of: furnishing and installing polyvinyl chloride branch; connecting polyvinyl chloride branch to existing sewer pipe; connecting lateral pipe to branch; and furnishing all labor, material and equipment necessary to complete work.

G. Inserta Tee Connection to Existing Sewer Pipe

Unit price bid includes cost of: furnishing and installing inserta tee connection; preparing and coring existing sewer pipe; connecting inserta tee to existing sewer pipe; connecting lateral pipe to inserta tee; and furnishing all labor, material and equipment necessary to complete work.

H. Inserta Tee Connection to Existing Sewer Pipe - Installed

Unit price bid includes cost of: excavation; backfill; stone bedding; select granular backfill (sewer); full pavement or pavement base restoration; sheeting; shoring; maintenance of sewage flow; pumping; bailing; furnishing and installing inserta tee connection; preparing and coring existing sewer pipe; connecting inserta tee to existing sewer pipe; replacing any portion of existing sewer pipe damaged during work; connecting lateral pipe to inserta tee; and furnishing all labor, material and equipment necessary to complete work.

At end of Section R601-5 Basis of Payment, **ADD** following:

S601-5.06 Polyvinyl Chloride Lateral Pipe – Installed (Including Lateral Connection)

Unit price bid includes cost of: excavation; backfill; stone bedding; select granular backfill (sewer); full pavement or pavement base restoration; sheeting; shoring; maintenance of sewage flow; pumping; bailing; furnishing and installing lateral pipe; bends; fittings; connecting new lateral pipe to catch basin, existing lateral pipe, or existing/new branch stub; preparing and cutting existing lateral pipe for connection; flexible rubber joint connector with stainless steel shear ring and bands; making joint; and furnishing all labor, material and equipment necessary to complete work.

S601-5.07 Abandon Existing Lateral Pipe

Unit price bid includes cost of: plugging end of lateral pipe; rubber gasketed mechanical type permanent plug; brick; regular cement mortar Type II cement; filling and sealing void at plugged end; and furnishing all labor, material and equipment necessary to complete work.

Where existing lateral pipe is connected to structure, unit price bid also includes cost of: mortaring over opening in structure;

Where existing lateral pipe is open ended, unit price bid also includes cost of: removing short section of existing lateral pipe if necessary.

S601-5.08 Excavation, Backfill, Pavement Base Restoration and Pavement Restoration

Excavation including hand and tunnel excavation, furnishing and placing of stone bedding and select granular backfill (sewer), and either pavement base or full pavement restoration, will be paid for under separate bid items or included in unit price bid for item as indicated in item description.

No separate payment will be made for placement of select backfill material excavated from trench.

Excavation that is included in bid item does not include rock excavation. Rock excavation will be paid for under separate bid item.

Where bid item includes cost of pavement base restoration, pavement base may consist of either concrete base or asphalt base course, as required in Contract Documents. Unit price bid will be same regardless of which type of pavement base is used, and bid items will include cost of: subbase courses type 1 and type 2; either Class C concrete foundation or asphalt base course.

Where bid item includes cost of pavement restoration, pavement base may consist of either concrete base or asphalt base course, as required in Contract Documents. Unit price bid will be same regardless of which type of pavement base is used, and bid items will include cost of: subbase courses type 1 and type 2; either Class C concrete foundation or asphalt base course; asphalt binder course; asphalt top course; and asphalt tack coat.

Payment will be made under:

Note: XX in bid item number and X" in item description represent size of branch, connection or lateral pipe. i.e.: 8 inch inserta tee connection would be bid as S601.2308 8" Inserta Tee Connection to Existing Sewer.

ITEM NO.	ITEM	PAY UNIT
S601.1501XXXX	X" x X" Polyvinyl Chloride Branch at Existing Sewer Pipe – Installed (Including Excavation, Backfill and Pavement Base Restoration)	Each
S601.1502XXXX	X" x X" Polyvinyl Chloride Branch at Existing Sewer Pipe - Installed (Including Excavation, Backfill and Pavement Restoration)	Each
S601.2001XX	X" Polyvinyl Chloride Saddle Branch at Existing Sewer Pipe - Installed (Including Excavation, Backfill and Pavement Base Restoration)	Each
S601.2002XX	X" Polyvinyl Chloride Saddle Branch at Existing Sewer Pipe - Installed (Including Excavation, Backfill and Pavement Restoration)	Each
S601.22XXXX	X" x X" Polyvinyl Chloride Branch at New Sewer Pipe	Each
S601.23XX	X" Inserta Tee Connection to Existing Sewer Pipe	Each
S601.2301XX	X" Inserta Tee Connection to Existing Sewer Pipe - Installed (Including Excavation, Backfill and Pavement Base Restoration)	Each
S601.2302XX	X" Inserta Tee Connection to Existing Sewer Pipe - Installed (Including Excavation, Backfill and Pavement Restoration)	Each
S601.26XX	X" Polyvinyl Chloride Lateral Pipe, SDR21 - Installed (Including Lateral Connection) (Including Excavation, Backfill and Pavement Base Restoration)	Linear Foot
S601.27XX	X" Polyvinyl Chloride Lateral Pipe, SDR21 - Installed (Including Lateral Connection) (Including Excavation, Backfill and Pavement Restoration)	Linear Foot
S601.28XX	X" Polyvinyl Chloride Lateral Pipe, SDR21 - Installed (Including Lateral Connection) (Including Excavation and Backfill)	Linear Foot
S601.2901	Abandon Existing Lateral Pipe at Structure	Each
S601.2902	Abandon Existing Lateral Pipe at Structure (Including Excavation and Backfill)	Each
S601.2903	Abandon Existing Lateral Pipe at Structure (Including Excavation, Backfill and Pavement Base Restoration)	Each
S601.2904	Abandon Existing Lateral Pipe at Structure (Including Excavation, Backfill and Pavement Restoration)	Each
S601.3001	Abandon Existing Open Ended Lateral Pipe	Each
S601.3002	Abandon Existing Open Ended Lateral Pipe (Including Excavation and Backfill)	Each

REVISED December 1, 2015