



**SPECIAL PROVISIONS  
FOR  
STORM SEWER SERVICE FITTINGS AND CONNECTIONS**

**Clayton County  
STPN-076-1(16)--2J-22**

**Effective Date  
November 16, 2021**

**THE STANDARD SPECIFICATIONS, SERIES 2015, ARE AMENDED BY THE FOLLOWING MODIFICATIONS AND ADDITIONS. THESE ARE SPECIAL PROVISIONS AND THEY SHALL PREVAIL OVER THOSE PUBLISHED IN THE STANDARD SPECIFICATIONS.**

**150775.01 DESCRIPTION.**

Furnish and install fittings and materials necessary for connecting storm sewer services with storm sewer gravity main or roadway subdrain.

**150775.02 MATERIALS.**

- A.** Service Pipe: Use 4inch PVC that complies with the following.
  - 1. ASTM D 3034, minimum thickness SDR 35.
  - 2. PVC plastic meeting ASTM D 1784, Cell Classification 12454.
  - 3. Integral bell and spigot type rubber gasket joint complying with ASTM D 3212.
- B.** Core & Boot Adaptor: Service pipe shall be connected to RCP storm sewer main with core & boot adaptor. Adaptor shall be Inserta-Tee or equal and be compatible with 4inch PVC pipe.
- C.** Fittings: Comply with ASTM F 1336.
- D.** Bedding (Class I) Material: Use material meeting the requirements of Section 4118 of the Standard Specifications. The Engineer may allow the use of gravel or authorize a change in gradation subject to materials available locally at the time of construction.
- E.** Backfill Material: Use Class II material meeting the requirements of Article 2552.02, D, 1 of the Standard Specifications.

**150775.03 CONSTRUCTION.**

- A.** Pipe Jointing.

**1. General.**

- a. Clean joint surfaces to remove soil or foreign material prior to jointing pipe.
- b. Assemble joints according to the pipe manufacturer's recommendations. Use equipment that does not apply damaging forces to pipe joints.

**2. Polyvinyl Chloride Pipe.**

Coat gasket and joint with soap-based lubricant immediately prior to closing the joint.

**3. Connections between Dissimilar Pipes.**

Use manufactured adapters or couplings approved by the Engineer.

**B. Storm Sewer Service Stubs.**

1. Provide storm sewer service stubs at locations specified in the contract documents. Storm sewer stubs connected to sump pumps or downspout discharges shall be connected to the storm sewer main. Storm sewer stubs connected to floor drains shall be connected to the roadway subdrain
2. Refer to Storm Sewer Details Plan Sheet.
3. Install 4 inch two way PVC service tee for each floor drain service connection.
4. Install core & boot adaptor for each sump pump and/or downspout service connection.  
Connection to new RCP storm sewer main:
  - a. Cut storm sewer main for service tap with hole saw.
  - b. Install according to the manufacturer's requirements, but always with at least two stainless steel band clamps.
5. Install service stub from storm sewer main to a location 4 feet beyond the right-of-way line or as directed by Engineer at the time of construction.
  - a. Install according to [Article 2504.03, B](#) of the Standard Specifications.
  - b. Install service stub with a slope between 2% and 5% for 4 inch pipes
  - c. Terminate end of service stub approximately 3 feet below finished ground elevation or as specified in the contract documents.
  - d. If the depth of the storm sewer main causes the service to exceed a depth of 3 feet or a slope of 5%, install a service PVC fitting bend between the PVC cleanout and storm sewer main.
  - e. For properties without existing storm water drainage pipe, place watertight stopper, cap, or plug in end of storm sewer service. Mark the end of the service line as required by the Engineer or as specified in the contract documents.
  - f. For reconnection of new service pipe with existing service pipe and new service pipe, comply with the Jurisdiction's plumbing code.
6. Provide a storm sewer cleanout located behind the sidewalk in residential areas or as specified in the contract documents that includes the following.
  - a. 4 inch two way PVC clean out tee.
  - b. 4 inch PVC riser pipe.
  - c. 4 inch PVC cleanout with cap set flush with the surface.
  - d. 1/2 inch rebar set next to riser/cleanout.

**150775.04 METHOD OF MEASUREMENT.**

**A. Storm Sewer Service Stub.**

1. A storm sewer service stub is the portion of the sanitary sewer service from the main to a point 4 feet outside of the right-of-way line or as specified in the contract documents.

2. Measurement for each type and size of pipe will be in linear feet along the centerline of the pipe from the end of the pipe to the centerline of the storm sewer main.

**B. Floor Drain Service Tee.**

Each service tee will be counted.

**C. Core & Boot Adaptor.**

Each core & boot adaptor will be counted.

**D. Storm Sewer Cleanout.**

Each storm sewer cleanout will be counted.

**E. Connection to Existing Storm Service.**

Each reconnection to an existing storm service shall be counted.

**150775.05 BASIS OF PAYMENT.**

**A. Storm Sewer Service Stub.**

1. Payment will be made at the contract unit price per linear foot for each type and size of storm sewer service stub.
2. Payment is full compensation for trench excavation, furnishing bedding material, placing bedding and backfill material and fittings.

**B. Floor Drain Service Tee.**

Payment will be made at the contract unit price for each service tee. Payment includes the labor to connect to both the roadway subdrain and service.

**C. Core & Boot Adaptor.**

Payment will be made at the contract unit price for each adaptor. Payment includes the core drilling of the storm main, the PVC hub adaptor, rubber gasket, rubber sleeve and securing clamp.

**D. Storm Sewer Cleanout.**

Payment will be made at the contract unit price for each cleanout. Payment includes the plug at the end of the main, fittings, riser pipe, cap with screw plug, and locate rebar.

**E. Connection to Existing Storm Service.**

Payment will be the contract unit price for each reconnection to existing storm services. Payment includes the flexible pipe coupling.