

33 3114 – SANITARY SERVICES

SANITARY SERVICES

PART 1 – GENERAL

1.01 Section Summary

- A. Sanitary sewer service pipe installation and appurtenances.

1.02 Related Sections

- A. Section 2000 – Trench Excavation and Backfill
- B. 33 3113 – Sanitary Sewer

1.03 References

- A. American Society of Testing Materials (ASTM)
 - 1. D698 – Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort.
 - 2. D2665 – Standard Specification for Poly(Vinyl Chloride) (PVC) Plastic Drain, Waste, and Vent Pipe and Fittings.

1.04 Submittals

- A. Submit to the Engineer for review:
 - 1. Wye location (station).
 - 2. Depth of service.
 - 3. Length of service line.
- B. Final payment will not be made until all service information is submitted to and reviewed by the Engineer.

PART 2 – PRODUCTS

2.01 Service Pipe

- A. Polyvinyl Chloride (PVC) Service Pipe
 - 1. Pipe shall conform to ASTM D2665.
 - 2. All pipes shall be bell and spigot.

3. Each pipe shall be identified by name of manufacturer, nominal pipe size, and PVC cell classification.
4. Minimum service size is 4 inch.
5. Minimum wall thickness is Schedule 40.
6. Solvent welded joints will be required and must be done in accordance with manufacturer's instructions.
7. New sanitary sewer connections shall be installed using an inline wye.
8. SDR 26 shall be acceptable for 6" services.

2.02 Marking Tape

- A. Tape shall be 3 inch width, non-detectable type.
- B. Tape shall be green with black lettering with words "CAUTION SEWER LINE BELOW".

2.03 Pipe Bedding

- A. Bedding material shall conform to Section 2000 – Trench Excavation and Backfill.

2.04 Existing Service Connectors

- A. Connections to existing service pipe materials other than PVC shall be made with a strong back FERNCO.

PART 3 – EXECUTION

3.01 Pipe Installation

- A. Governing Code shall be North Dakota Plumbing Code and all City Ordinances that apply.
- B. Minimum grade shall be ¼ inch per foot unless directed by the Engineer.
- C. Lay pipe and fittings in accordance with Section 2300 – Sanitary Sewer.
 1. Sewer pipe marking tape shall be installed as specified in Section 2300.
- D. Service locations shall be shown on the Plans, at a minimum, services must be downstream 10 feet from water services.
- E. Record all necessary information to comply with the submittal requirements of this Section.
- F. Plug end of service to protect the system.

- G. Mark end of service with a 2 X 4 wood post, painted green, extending from the service cap to 4 feet above the surface.

3.02 Reconnect Existing Sewer Services

- A. No warranty is expressed or implied as to the location, size, or material type of existing service lines. The Contractor shall furnish and install all fittings required to make the connection.

3.03 Cleanouts

- A. Cleanouts shall be installed in service lines that exceed 100 feet in length. Cleanouts shall be spaced no greater than 100 feet apart, including the riser pipe.
- B. The cleanout wye shall be encased in concrete.
- C. Where the cleanout is extended to grade, a 10" gate valve box section with lid shall be installed to protect the cleanout.

3.04 Measurement and Payment

- A. PVC Service Pipe: Shall be paid for by the lineal foot (LF) for each size and type specified on the Plan. Measurement will be along the axis of the pipe without regard to fittings. Price shall include all materials and labor necessary for installation including excavation, bedding, necessary fittings, backfill and compaction.
- B. Reconnect Existing Service: Shall be paid for by each (EA) connection to the existing service pipe. Price shall include all materials and labor required to make the connection.
- C. Cleanout: Shall be paid for by each (EA) cleanout installed as specified.
- D. No Bid Items have been provided for plugs or 2 X 4 wood markers, these costs shall be included in the price per lineal foot for PVC Service Pipe.
- E. All other work and costs of this Section shall be incidental to the Project.

END OF SECTION