

SECTION 2500 – SANITARY SEWERS

CITY OF BLUE SPRINGS, MISSOURI CONSTRUCTION SPECIFICATIONS

The City of Blue Springs hereby adopts Section 2500 of the Kansas City Metropolitan Chapter of APWA Construction and Material Specifications, the latest edition. The following additions, deletions and/or revisions are adopted as a part of Section 2500 for use within the City of Blue Springs. Text in bold italics indicates revisions or additions to the APWA standard.

Section 2502 Materials

2502.2.C.2 – Materials

Delete paragraph 2502.2.C.2 and replace with the following:

“Materials: The pipe shall be made of PVC plastic having cell classification of 12454B or 14333B as defined in ASTM D 1784.”

2502.2.C.3 – Design

Delete paragraph 2502.2.C.3 and replace with the following:

“Design: Pressure flow systems, i.e., force mains, shall have an integral wall bell and spigot joint. Pipe shall have a minimum wall thickness complying with Table 2 in ASTM 2241.”

2502.2.C.4 – Joints

Delete paragraph 2502.C.4 and replace with the following:

“Joints: Joints shall conform to ASTM D 3139 for pressure lines. Joints shall be push-on type only with bell-end grooved to receive a gasket. Elastomeric seals (gasket) shall have a basic polymer of synthetic rubber complying with ASTM F 477. Natural rubber gaskets shall not be accepted.”

2502.2.C.5 – Fittings

Delete paragraph 2502.C.5 and replace with the following:

“Fittings: Fittings for pressure flow systems shall be ductile iron or PVC. Ductile iron fittings shall conform to ANSI/AWWA C151/A21.51, ANSI/AWWA C110/A21.10, and ANSI/AWWA C153/A21.53. PVC fittings shall comply with ANSI/AWWA C906 and the requirements of ASTM D 2683 for socket-type fittings, ASTM D 3261 for butt heat fusion fittings, and ASTM F 1055 for electrofusion type fittings.”

2502.2.D.3 – Design

Delete paragraph 2502.D.3 and replace with the following:

“Design: Pipe shall have an integral bell and spigot joint. Wall thickness shall be SDR 26 or SDR 21 as shown on the plans.”

2502.2.D.5 – Fittings

Delete paragraph 2502.D.5 and replace with the following:

“Fittings: Fittings defined as tee (T) or wye (Y) connections suitable for assembly to four (4) inch or six (6) inch building service lines shall be bell-end with a minimum wall thickness conforming to SDR 26 and shall be furnished by the pipe manufacturer. A special design is required for service connections 8 inches and larger. Saddle tees or wyes will not be permitted during sewer main installation.”

2502.2.E – Reinforced Concrete Pipe and Fittings

Delete paragraph 2502.E and all subsections.

2502.2.F – Fiberglass Wastewater Pipe

Delete paragraph 2502.F and all subsections.

2502.2.H.2.a – Acrylonitrile-Butadiene-Styrene Service Line Pipe and Fittings

Delete paragraph 2502.H.2.a and all subsections.

2502.4 – Backfill Materials

Add the following:

“E. Backfill Underneath Proposed and Existing Roadways: Backfill underneath proposed and existing roadways shall meet the requirements as shown on the City of Blue Springs Standard Detail STR-07 and SAN-11.”

2502.5.G.2 – Wood Skids

Delete paragraph 2502.5.G.2

Section 2504 Excavation

2504.5 – Blasting

Change “Engineer” in the first sentence to “Community Development Director”.

2504.6 – No Blasting Areas

Change “Engineer” in the first sentence to “Community Development Director”.

Section 2505 Installation

2505.2.H.5 – Service Lines

Delete paragraph 2505.2.H.5 and replace with the following:

“Service lines shall be terminated and capped ten feet beyond the private side of the Right-of-Way or easement lines.”

2505.2.H.6 – Tracer Wire

Delete paragraph 2505.2.H.6 and replace with the following:

“Tracer Wire: Tracer wire shall be installed along the top of the sewer force main per City of Blue Springs Standard Detail SAN-17. The wire shall be accessible at every manhole or vault. Tracer wire shall be inspected by the public works inspector prior to backfill.

If new sanitary sewer service lines are installed or connected from or to an underground facility or if the infrastructure is repaired, replaced, or rehabilitated, the contractor, utility, or person conducting the installation, connection, repair, replacement, or rehabilitation to use tracer wire, or a similar device capable of being located by an above surface detection system designed to give approximate locations of the underground sewer service line, to mark the location of the pipes and lines in those areas that are located within a public right-of-way, easement, or street. This provision must apply to all installations of sewer without regard to their status as underground facilities. A violation of these provisions must result in a presumption of negligence against the individual or company failing to install tracer wire or a similar technology, and a violator must be liable for all damages caused by his or her failure to act in accordance with these provisions. Tracer wire shall be installed along the top of the sanitary sewer service line per City of Blue Springs Standard Detail SAN-07”

2505.4.D – Carrier Conduit Installation

Delete paragraph 2505.4.D and replace with the following:

“Carrier Conduit Installation: After completion of the installation of the casing, the carrier conduit shall be carefully pushed or pulled through the casing in a manner that will maintain proper jointing of the pipe joints and provide required gradient and alignment. Pipe spacers shall be provided as indicated on the Plans.”

2505.4.E – Sand Fill

Delete paragraph 2505.4.E

Section 2506 Backfill

2506.3 Backfilling in Street or Alley Right-of-Way and Under Pavement

Delete paragraph 2506.3 and replace with the following:

“Trench backfill shall be in accordance with and shall meet the requirements as shown on the City of Blue Springs Standard Detail STR-07 and SAN-11. This shall include proposed pavement as well.”

Section 2508 – Testing

2508.3.B – Television Inspection

Delete paragraph 2508.3.B

Section 2509 – Manholes and Special Structures

2509.3.D – Precast Concrete

Delete paragraph 2509.3.D and all sub sections and replace with the following:

“Precast Concrete: Precast concrete manholes shall conform to ASTM C 478 and meet the requirements as shown on the City of Blue Springs Standard Details SAN-01, SAN-02, SAN-03, SAN-04 and SAN-10.”