

### SECTION 2600 – STORM SEWERS

#### CITY OF BLUE SPRINGS, MISSOURI CONSTRUCTION SPECIFICATIONS

The City of Blue Springs hereby adopts Section 2600 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 2600 for use within the City of Blue Springs. Text in bold italics indicates revisions or additions to the APWA standard.

#### **Section 2602 Pipe Sewer Construction**

##### 2602.2.B – Corrugated Metal Pipe (CMP)

Delete paragraph 2602.2.B including all subsections and tables and replace with the following:

***“Corrugated metal pipe shall not be used in the construction of public infrastructure. Storm drainage systems to remain privately owned and maintained may use corrugated Aluminized Steel Pipe.”***

##### 2602.2 – Materials

Add the following:

##### ***“G. Polypropylene Pipe***

- 1. For 15-inch to 24-inch pipe, polypropylene pipe shall have a double wall with a smooth interior and annular exterior corrugations and conform to ASTM F2881 and AASHTO M330. For 30-inch and larger pipe sizes, polypropylene pipe shall have a triple wall with smooth interior and exterior surfaces with inner corrugations and conform to ASTM F 2764. The pipe shall not be perforated unless otherwise specified.***
- 2. For 15-inch to 24-inch pipe, pipe shall be joined with a gasketed integral bell and spigot joint meeting the requirements of ASTM F2881. For 30-inch and larger pipe, pipe shall be joined with a gasketed integral bell and spigot joint meeting the requirements of ASTM F2764.***
- 3. Coupling bands shall cover at least two full corrugations on each section of pipe and shall prevent the infiltration of soil into the pipe.”***

2602.2.E – Granular Bedding Material

Delete paragraph 2602.E and replace with the following:

***“Granular Bedding Material: Granular bedding material shall meet the requirements as shown on the City of Blue Springs Standard Detail STM-06.”***

2602.3.B.5.d – Structure Connections

Delete paragraph 2602.3.B.5.d and replace with the following:

***“Structure Connections: Pipes connected to structures shall be cut parallel with the inside face of the structure for structures having plane walls and parallel with the spring line of the pipe for structures having curved walls. Projection of the pipe beyond the inside face shall be one inch (1.00”) to three inches (3.00”) (measured at the springline for structures having curved walls). When installed, all gaps and openings intended to be closed, shall be sealed with grout, concrete or other approved materials. Gap between the pipe and structure shall be four inches (4.00”) to eight inches (8.00”).”***

2602.3.C – Backfill of Trenches

Delete paragraph 2602.3.C and replace with the following:

***“Backfill of Trenches: Backfill of trenches shall meet the requirements as shown on the City of Blue Springs Standard Detail STM-06.”***

**Section 2603 Boring and Jacking**

2603.2.C – Sand Fill

Delete paragraph 2603.2.C and replace with the following:

***“Spacers: Spacer and carrier pipe installed to manufacture specifications.”***

2603.3.C.1 – Sewer Pipe Installation

Delete paragraph 2603.3.C.1

2603.3.C.3 – Sewer Pipe Installation

Delete paragraph 2603.3.C.3



# Blue Springs, Missouri

## Public Works Department

### Section 2604 Structures

#### 2604.2.D – Precast Concrete Structures

Add the following:

***“Precast concrete structures shall meet the requirements as shown on the City of Blue Springs Standard Details STM-01, STM-02, STM-03, and STM-04.”***

#### 2604.2.F – Manhole Castings

Add the following:

***“3. Metal Castings: Metal castings shall meet the requirements as shown on the City of Blue Springs Standard Detail STM-05.”***

#### 2604.2.H – Toe Walls

Delete paragraph 2604.H and replace with the following:

***“Toe Walls: Flared end sections for concrete and steel pipe shall be set on a concrete toe wall centered on the end of the section. Toe walls shall be 8 inches thick by 36 inches deep by the width of the end section and shall meet the requirements as shown on the City of Blue Springs Standard Detail STM-08.”***

#### 2604.3.A.1 – Precast Structures

Delete paragraph 2604.3.A.1 and replace with the following:

***“1. Precast Structures: The Contractor may, at their option, construct precast inlets, junction boxes, and box culverts, in lieu of the cast-in-place structures indicated on the Plans: except that all concrete base slabs for pre-cast inlets, manholes, and junction boxes may be cast-in-place. Solid concrete brick or block shall be used to block inlets and similar structures to grade during placement of base slab concrete.***

***Precast concrete box culverts shall have a 3-inch thick grade slab cast under the precast culvert. The grade slab shall be at least as wide as the structure and shall stop short of the toe walls. Commercial grade concrete may be used with minimum 2500 psi compressive strength. The slab should be set with precise grade control to match the elevations required for the culvert.***

***Any adjustments required for precast structures to meet field conditions shall be at the cost of the Contractor.”***



# Blue Springs, Missouri

## Public Works Department

### 2604.3.A.2 – Finishing

Add the following:

***“c. When top slab is incorporated into the adjacent sidewalk, it shall meet the latest ADA specifications and requirements as shown on the City of Blue Springs Standard Details STM-01, STM-02, STM-03, and STM-04.”***

### 2604.3 – Construction

Add the following:

***“D. Cast in Place Box Culvert: Cast in place box culverts shall have a 3-inch thick grade slab cast under the bottom slab. The grade slab shall be at least as wide as the structure and shall stop short of the toe walls. Commercial grade concrete may be used with minimum 2500 psi compressive strength. The slab should be set with precise grade control to match the elevations required for the culvert.”***