

**SECTION 01011**  
**SPECIFICATIONS SPECIAL CONDITIONS**

**Brunswick, Jefferson City, Joplin/Tri-Lakes, Mexico, Platte County, St. Charles, St. Joseph,  
St. Louis County, Warrensburg**

This section clarifies requirements that are unique to individual Operations Districts of the Owner. The content of this section shall remove, replace, or supplement the requirements in other sections of the Specifications when the Contract is for work located within the individual Operations Districts as noted herein. **If any other article of this section suggests the use of any materials, means and methods but is excluded or modified in this Section 01011, this section shall have priority and shall supersede conflicting requirements in other sections.** If there are conflicts between the Contract Drawings provided and these Specifications, contact the Owner immediately for clarification.

Table of Contents

<u>Article No.</u>	<u>Title</u>	<u>Page</u>
SSC-1000	Summary of Work	SSC-2-4
SSC-15030	Pressure and Leakage Tests	SSC-5
SSC-15150	Gate Valves (Owner Furnished)	SSC-5
SSC-15151	Gate Valves (Contractor Furnished)	SSC-5
SSC-15154	Butterfly Valves (Owner Furnished)	SSC-6
SSC-15155	Butterfly Valves (Contractor Furnished)	SSC-6
SSC-15170	Tapping Sleeves, Saddles, and Valves (Owner Furnished)	SSC-6
SSC-15180	Fire Hydrants (Owner Furnished)	SSC-6-7
SSC-15181	Fire Hydrants (Contractor Furnished)	SSC-7-9
SSC-15191	Air Release, Blow-off Outlets (Contractor Furnished)	SSC-9-10
SSC-15200	Service Lines (Contractor Furnished)	SSC-10-11
SSC-15205	Service Lines (Owner Furnished)	SSC-11
SSC-0201-0601-SD1	Blow-Off/ Flushing Hydrant Assembly Detail	SSC-12
	Other	SSC-12

## **SSC-1000 – Summary of Work**

### **Brunswick:**

Add the following item E to the list of Work to be performed by OWNER as described in Specification Section 1000.1.02.A.2:

- E. Install meters that are smaller than 2-inch diameter.

### **Jefferson City:**

Add the following items E-G to the list of Work to be performed by OWNER as described in Specification Section 1000.1.02.A.2:

- E. Install all taps on new and existing mains. This included developer main extensions and service transfer taps. This is for the labor and equipment to make the tap only. This does not include excavation or installation of the sleeve, saddle, or valve.
- F. Install all meters.
- G. Paint all public fire hydrants.

Add the following item 2 to the list of Materials Furnished by OWNER as described in Specification Section 1000.1.03.

- 2. Provide all public fire hydrants.

### **Joplin:**

Add the following items E thru G to the list of Work to be performed by OWNER as described in Specification Section 1000.1.02.A.2:

- E. Excavate all tap pits for all water main taps including new New Development main extensions, water main relocations and service transfers for all taps.
- F. Install all tap sleeves, tap saddles, tap valves, corporation stop valves on all new and existing water mains including service transfers.
- G. Perform the installation of all taps on new and existing mains.

Add the following items 2 and 3 to the list of Materials Furnished by OWNER as described in Specification Section 1000.1.03.A:

- 2. Tap valves, tap saddles, tap sleeves, and corporation stops for all taps.
- 3. All meter setters, meter vaults, meter pit piping, strainers, and all control valves for water service meters including pressure reducing valves, check valves, and other valves required for water service meters.

**Mexico:**

Add the following items E thru H to the list of Work to be performed by OWNER as described in Specification Section 1000.1.02.A.2:

- E. Install all water meters. This is for the meter only.
- F. Excavate tap pits for existing water main branch taps only. This does not include service transfer taps.
- G. Install tap valves and tap sleeves and tap saddles that are equipped with mechanical joint outlets for existing water main branch taps only. This does not include service transfer taps.
- H. Install all branch main taps on existing water mains. This does not include service transfer taps.

Add the following items 2 to the list of Materials Furnished by OWNER as described in Specification Section 1000.1.03.A:

- 2. Tap valves and tap sleeves and tap saddles that are equipped with mechanical joint outlets for existing water main branch taps only. This does not include service transfer tap materials.

**Parkville:**

Add the following item E to the list of Work to be performed by OWNER as described in Specification Section 1000.1.02.A.2:

- E. Install water meters that are less than 2-inch diameter. This is for the meter only.

**St. Charles:**

Add the following item E to the list of Work to be performed by OWNER as described in Specification Section 1000.1.02.A.2:

- E. Install all water meters, meter setters, yokes, strainers, meter control valves, pressure reducing valves, check valves, by-pass valves, meter pit piping, meter pits, and meter vaults. This is only for installation work related to water service meters. Includes meter transfers and excavation of the meter pit.

Add the following items 2 to the list of Materials Furnished by OWNER as described in Specification Section 1000.1.03.A:

- 2. All meter setters, meter vaults, meter pit piping, strainers, and all control valves for water service meters including pressure reducing valves, check valves, and other valves required for water service meters..

**St. Joseph:**

Add the following items E and F to the list of Work to be performed by OWNER as described in Specification Section 1000.1.02.A.2:

- E. Install water meters that are 2-inch diameter or more. This is for the meter only.
- F. Perform the installation of branch taps on existing water mains. This is to make the tap only. This does not include service transfer taps. This does not include the installation of the valve, sleeve, or saddle.

Add the following items 2 thru 4 to the list of Materials Furnished by OWNER as described in Specification Section 1000.1.03.A *Exclusion: the Owner shall not supply materials for New Development main extensions.*

- 2. Gate valves and butterfly valves.
- 3. Tap valves and tap sleeves and tap saddles that are equipped with mechanical joint outlets for branch water main taps only.
- 4. Provide all fire hydrants. *Note: The Contractor shall paint all fire hydrants.*

**St. Louis County:**

Add the following items E to the list of Work to be performed by OWNER as described in Specification Section 1000.1.02.A.2:

- E. Perform the installation of branch taps on existing water mains for New Development main extensions only. This includes the installation of the tap valve and tap sleeve. This does not include the excavation of the tap pits.

Add the following items 2 to the list of Materials Furnished by OWNER as described in Specification Section 1000.1.03.A:

- 2. Tap valves and tap sleeves for New Development main extensions only.

**Warrensburg:**

Follow specification sections.

## **SSC-15030 – Pressure and Leakage Tests**

### **Platte County and St. Joseph:**

Remove paragraph A in Specifications Section 15030.3.02 and replace with the following:

- A. Slowly fill each segregated section of pipeline with water ensuring that all air is expelled. Extreme care must be taken to ensure that all air is expelled during the filling of pipe. The line shall stand full of water for at least twenty-four hours prior to testing to allow all air to escape. If necessary, tap the main at points of highest elevation to expel air as the pipe is filled.

## **SSC-15150 - Gate Valves (Owner Furnished)**

### **St. Joseph:**

Remove paragraph A to Specifications Section 15150.2.01A and replace with the following

- A. Small diameter gate valves and large diameter gate valves shall be **OPEN LEFT outside city limits and OPEN RIGHT in city limits**, verify with District exact open type before ordering.

## **SSC-15151 - Gate Valves (Contractor Furnished)**

### **St. Joseph *for developer main extensions only:***

Remove paragraph C in Specifications Section 15151.2.01C and replace with the following

- C. Gate valves shall be **OPEN LEFT outside city limits and OPEN RIGHT in city limits**, verify with District exact open type before ordering.

Remove paragraph E in Specifications Section 15151.2.01E and replace with the following

- E. Acceptable manufacture is the Mueller Company only.

Remove paragraph B in Specifications Section 15151.2.02B and replace with the following

- B. Gate valves shall be **OPEN LEFT outside city limits and OPEN RIGHT in city limits**, verify with District exact open type before ordering.

Remove paragraph F in Specifications Section 15151.2.02F and replace with the following

- F. Acceptable manufacture is the Mueller Company only.

**SSC-15154 - Butterfly Valves (Owner Furnished)**

**St. Joseph:**

Remove paragraph A in Specifications Section 15154.2.01A and replace with the following

- A. Butterfly valves shall be **OPEN LEFT outside city limits and OPEN RIGHT in city limits**, verify with District exact open type before ordering.

**SSC-15155 - Butterfly Valves (Contractor Furnished)**

**St. Joseph** *for developer main extensions only:*

Remove paragraph B in Specifications Section 15155.2.01B and replace with the following

- B. Butterfly valves shall be **OPEN LEFT outside city limits and OPEN RIGHT in city limits**, verify with District exact open type before ordering.

Remove paragraph H in Specifications Section 15155.2.01H and replace with the following

- H. Acceptable manufacture is Mueller Company (Henry Pratt Company Division only).

**SSC-15170 - Tapping Sleeves, Saddles, and Valves (Owner Furnished)**

**Joplin, Mexico, St. Joseph, and St. Louis County**  
*(See SSC-1000 Summary of Work)*

**SSC-15180 - Fire Hydrants (Owner Furnished)**

**Jefferson City**  
*(See SSC-1000 Summary of Work)*

## **St. Joseph**

*(See SSC-1000 Summary of Work)*

Add the following paragraph B to Specifications Section 15180.3.04

- B. Paint Scheme
  - 1. Bonnet colors:
    - a. Safety Green – 12” and larger mains
    - b. Safety Orange – 8” and 10” mains
    - c. Safety Candy Apple Red – 6” or smaller mains
  - 2. Nozzle Caps
    - a. Same color as body for loop connected mains.
    - b. Silver for dead end mains.
  - 3. Body – White

## **SSC-15181 - Fire Hydrants (Contractor Furnished)**

### **Brunswick:**

Add the following paragraph B to Specifications Section 15181.3.04

- B. Fire hydrants shall be painted red.

### **Joplin:**

*(Joplin/ Tri-Lakes uses two types of hydrants, one for Reddings Mill area and one for Joplin/ Tri-Lakes. The Contractor is required to verify with the Joplin or Tri-lakes District the exact hydrant type before ordering).*

Remove the first sentence of paragraph B Specifications Section 15181.2.01 and replace with the following sentence:

All fire hydrants shall be **OPEN RIGHT** and be clearly marked on the top of the hydrant.

Add the following paragraph B to Specifications Section 15181.3.04

- B. The Contractor shall verify with Joplin or Tri-Lakes District the hydrant color before ordering paint.

**Mexico:**

Remove paragraph C in Specifications Section 15181.2.01C and replace with the following

- C. The number and sizes of hose nozzle outlets is two (2) bronze male threaded 2-5/8" hose outlet nozzles GA 6-311 and one (1) male threaded 3-1/2" pumper outlet nozzle GA NS.

Remove paragraph E of the Specifications Section 15181.2.01 and replace with the following:

- E. Acceptable Manufacturer and model, subject to the specifications set forth, include:
- Mueller Super Centurion 250, Model A-423, 5 1/4" valve opening.

**Platte County:**

*(The Contractor is required to verify with the Platte County District the exact hydrant type before ordering.)*

Add the following paragraph B to Specifications Section 15181.3.04

- B. Paint Scheme
1. Bonnet colors:
    - a. Safety Green – 12" and larger mains
    - b. Safety Orange – 8" and 10" mains
    - c. Safety Candy Apple Red – 6" or smaller mains
  2. Nozzle Caps
    - a. Same color as body for loop connected mains.
    - b. Gray for dead end mains.
  3. Body – Safety Yellow

**St. Charles:**

Add the following paragraph B to Specifications Section 15181.3.04

- B. All hydrants shall be factory painted yellow from the manufacture. The Contractor shall apply matching yellow touch-up paint in accordance to manufacture's recommendations after the hydrants have been installed and backfilled.

**St. Joseph** *for developer main extensions only:*

Remove paragraph C in Specifications Section 15181.2.01C and replace with the following

- C. The number and sizes of hose nozzle outlets is two (2) bronze male threaded 2-1/2" hose outlet nozzles and one (1) male threaded Storz connection 4" pumper outlet nozzle. Threads shall be NST thread spec 096.

Remove paragraph E in Specifications Section 15181.2.01E and replace with the following



- E. Acceptable Manufacturer and model, subject to the specifications set forth, include:
- Mueller Super Centurion 250, Model A-423, 5 1/4" valve opening.

Add the following paragraph B to Specifications Section 15181.3.04

- B. Paint Scheme
1. Bonnet colors:
    - a. Safety Green – 12" and larger mains
    - b. Safety Orange – 8" and 10" mains
    - c. Safety Candy Apple Red – 6" or smaller mains
  2. Nozzle Caps
    - a. Same color as body for loop connected mains.
    - b. Silver for dead end mains.
  3. Body – White

**St. Louis County:**

Remove paragraph E of the Specifications Section 15181.2.01 and replace with the following:

- E. Acceptable Manufacturer and model, subject to the specifications set forth, include:
- Mueller Super Centurion 250, Model A-423, 5 1/4" valve opening.

Add the following paragraph B to Specifications Section 15181.3.04

- B. All hydrants shall be painted yellow. Fire hydrant tops shall be painted according to local district requirements.

**Warrensburg:**

Remove paragraph E of the Specifications Section 15181.2.01 and replace with the following:

- E. Acceptable Manufacturer and model, subject to the specifications set forth, include:
- US Pipe Metropolitan Model 250, Model 94, 5 1/4" valve opening

**SSC-15191 - Air Release, Blow-off Outlets (Contractor Furnished)**

**St. Charles:**

Remove the Specifications Section 15191.2.02 and replace with the following:

- Blow off assembly for underground applications shall be designed to fit within a 20" diameter meter tile. Meter tile shall have a 21" frame with a locking 12" cover Ford Type C or equivalent. In areas prone to cold weather they shall be self-draining and non-freezing. All working parts shall be serviceable from above with no digging

required. They shall be operated such that the device goes from full open to full close in a ¼ turn clockwise turn. Approved types of flushing hydrants are Tru-Flo Model TF 500 by the Kupferle Foundry or equal.

### **SSC-15200 – Service Lines (Contractor Furnished)**

#### **St Louis County and Mexico:**

Remove Specification Section 15200.2.01 and replace with the following:

Copper pipe shall be Type K only, as specified, meeting the requirements of ASTM Standard B88. The pipe size (3/4", 1", 1-1/2", or 2") and type are to be determined by the Engineer.

#### **St. Louis County:**

Remove Specification Section 15200.2.02 Note; Polyethylene service lines are not allowed.

#### **St Louis County and Mexico:**

Add the following to Specification Section 15200.2.03 CORPORATION STOPS

AY McDonald part numbers and descriptions;

Corps

4111-107	3120	5/8 CORP STOP AWWA X SPT (Special Purpose Thread)
4112-107	3120	3/4 CORP STOP AWWA X SPT
4113-107	3120	1 CORP STOP AWWA X SPT

Insulators

4121-018	4755DBL	3/4 CPLG FLR x FFLR L/NUT
4121-19	4755DBL	1 CPLG FLR x FFLR L/NUT

Acceptable manufacturers:

- Mueller
- A.Y. McDonald

Add the following to Specification Section 15200.2.04 CURB STOPS

Mueller part numbers and descriptions;

Curb Stops

H15300	250	3/4" CURB STOP SOLID TEE HEAD
H15300	350	1" CURB STOP SOLID TEE HEAD

Acceptable manufacturer:

- Mueller

Add the following to Specification Section 15200.2.06 MISCELLANEOUS SERVICE LINE FITTINGS

Mueller part numbers and descriptions

Tapping Saddles for use on PVC pipe.

BR2-W1314 12x3/4 3/4" CC Threads

BR2-W0899 8x3/4 3/4" CC Threads

BR2-W0684 6x3/4 3/4" CC Threads

AY McDonald part numbers and descriptions;

Copper Corp Couplings (Tailpieces)

4120-134 4749 5/8 x 3/4 EIGHTH BEND SPT x FLR (Flare)

4120-135 4749 3/4 x 3/4 EIGHTH BEND SPT x FLR

4120-019 4749 3/4 x 1 EIGHTH BEND SPT x FLR

Copper Unions

4120-143 4756 3/4 TWO PART UNION FLR x FLR

4121-145 4756 1 TWO PART UNION FLR x FLR

Lead Pak Couplings

4180-014 4758-22-67 3/4 CPLG x XSTR

4180-13 4758-22-67 3/4 x 5/8 CPLG CTS x XSTR

**Warrensburg:**

Remove Specification Section 15200.3.04 and replace with the following:

- Polyethylene encasement or other protective wrap shall extend for a minimum clear distance of three (3) feet away from the main for both new and replacement service lines unless otherwise directed by the ENGINEER or OWNER.

**SSC-15205 – Service Lines (Owner Furnished)**

**Joplin**

*(See SSC-1000 Summary of Work)*

**Warrensburg:**

Remove Specification Section 15205.3.04 and replace with the following:

- Polyethylene encasement or other protective wrap shall extend for a minimum clear distance of three (3) feet away from the main for both new and replacement service lines unless otherwise directed by the ENGINEER or OWNER.

## **SSC-0201-0601-SD1 Blow-off/Flushing Hydrant Assembly Detail**

### **St. Charles:**

The curb valve shall not be installed. Backfill the inside of the meter tile with  $\frac{3}{4}$  clean granular sufficiently to stabilize the flush assembly plumb and upright.

## **SSC-OTHER**

### **All Counties:**

- All tapping sleeves and saddles 2-inch thru 12-inch that are designed with a mechanical joint outlet shall be designed for a working pressure of 250 psi or more. Gate valves 2-inch thru 12-inch shall be designed for a differential pressure of 250 psi and an internal test pressure of 500 psi unless otherwise noted on the plans. Tapping sleeves and tapping saddles equipped with mechanical joint outlets shall be designed for an internal test pressure of 300psi.

### **Joplin:**

- Minimum bury depth in Joplin is 36" for water mains.