

## **2023 Summary of Revisions and Changes**

### **Water, Sanitary Sewer, Storm Drainage Infrastructure Standards and Specifications**

#### **Section 3.00 Permits, Extension Agreements, Inspections and Acceptance of Work**

##### **3.02 Private Extension Permits**

**3.02.4** Added requirement for independent inspections at the request of Aurora Water for private utility installations.

##### **3.03 Utility Main Construction (Water Distribution, Sanitary Sewer and Storm Drainage)**

**3.03.4** Deleted paragraph in its entirety.

**3.03.5** Updated reference to 3.03.4.

**3.03.6** Updated reference to 3.03.5.

#### **Section 5.00 Utility Design Criteria and Construction Plans**

##### **5.02 Water Distribution Lines Design Criteria**

###### **5.02.2 Main Size**

Added language that the maximum velocity and head loss requirements are based on maximum hour.

##### **5.04 Alignment, Depth and Easements**

Clarified the requirements to extend storm water utility easements a minimum of twenty feet (20') around all drainage structures.

Added language requiring that curb stop valves and boxes are to be located behind the curb and gutter.

#### **Section 6.00 Protection of Existing Utilities**

##### **6.04 Underground Utilities**

Updated the clearance depth requirements for wet utility crossings, including critical infrastructure.

## **Section 7.00 Material Handling and Storage**

### **7.02 Material Handling**

Added language for material rejection.

### **7.03 Material Storage**

Added language regarding damaged pipe and rejection.

## **Section 10.00 Manholes, Vaults and Inlets**

### **10.01 Materials**

#### **10.01.3 Precast Manholes Inlets and Vault Bases**

Added language stating if precast inlets and bases are used, no field modifications will be permitted.

## **Section 11.00 Water Pipe Installation**

### **11.07 Rubber Gasket Joint**

#### **11.07.3 Installation**

Added language requiring the cleaning of the gasket prior to joining of the bell and spigot.

### **11.12 Disinfection of Water Lines**

#### **11.12.7 Bacteria Test**

Clarified contractor responsibility to coordinate testing, pay all applicable fees, and obtain a passing test.

## **Section 14.00 Polyvinyl Chloride (PVC) Water Line**

### **14.05 Storage of Pipe**

Deleted in its entirety. Language covered under Section 7.03.

### **14.06 Sunburned Pipe**

Deleted in its entirety. Language covered under Section 7.03.

### **14.07 Installation**

Added the request for Contractor QA/QC of the electronic marker system prior to City inspection.

## **Section 15.00 Water Line Valves**

### **15.03 Gate Valves**

Modified the gate valve standard to include 16-inch and smaller water lines.

## **Section 17.00 Water Service Lines**

### **17.06 Tapping the Main**

No service taps shall be permitted unless the outside temperature is 32 degrees Fahrenheit and rising.

### **17.08 Meter Pit Installations**

Clarified the time of acceptance and warranty of the service lateral from the point of connection to the meter pit, begins at the time of meter set.

## **Section 21.00 Sanitary Sewer Pipe Installation**

### **21.07 Testing and Inspection**

#### **21.07.4 Televised Inspection**

Clarified requirements for electronic data submissions.

## **Section 31.00 Polypropylene (PP) Storm Sewer Pipe**

### **31.01 General**

Provided new language regarding the use of Polypropylene storm pipe in City right-of-way and roadway classifications Collector and less.

### **31.02 Bedding Material**

Added language regarding the backfill, compaction and acceptance of Polypropylene storm pipe.

### **31.03 Pipe and Fittings**

Added testing requirements for water tightness and maximum allowable defection.

## **Appendix A - Details**

### **200 Series – Water**

#### **200-1 Meter Installation Procedure**

Updated procedure.

#### **201-1 Meter Installation ¾" & 1" Service**

Added new standard notes.

#### **203-1 Banked Meter Pit**

Added note stating individual points of connection to main shall be required unless otherwise approved by Aurora Water.

#### **204-1 1 ½" Disc and 2" Turbine Irrigations Meter Vault Installation**

Removed handles on ball valves and added lock wing to graphic.

Added note regarding curb stop placement behind curb.

Changed flare coupling to compression coupling.

#### **204-2 3", 4", and 6" Turbine Irrigation Meter Vault Installation**

Updated flange end graphics.

Updated 4" meter lay length to 14 1/2".

Added note regarding curb stop placement behind curb.

#### **205-1 1 1/2" and 2" Disc Meter Custom Setter Installation for Domestic Service**

Updated ball valves depiction to rectangular shape.

Added note regarding curb stop placement behind curb.

Changed flare coupling to compression coupling.

#### **206-1 3", 4", and 6" Compound Meter Vault Installation for Domestic Service**

Added note stating gate valves must be in landscaped areas.

Added height dimensions for the vault.

Relocated the 4 inch by 3 inch reducer note to outside the vault.

#### **208-1 Fire Hydrant Assembly**

Updated note to restrained pipe.

Added requirements for block out when installed in concrete.

#### **209-1 2" Blowoff**

Added note stating drain hole to be drilled after testing.

#### **212-1 Butterfly Valve Installation**

Updated graphics to modify curb stops to air and vacuum valves.

Relocated access to same side as valve operator.

**213-1 PRV or Check Valve Station**

Removed the flow diagram.

Added note to install dresser coupling to the lower pressure side.

**221-1 Water Line Lowering Detail**

Updated thrust block standard to 220-1.

**301-1 Sanitary Sewer Cleanout (Private Only)**

Removed note that a double sweep is optional.

**Appendix B**

Approved Products List has been updated.

**Appendix C**

No changes.

**Appendix D**

No changes.

**Appendix E**

Added new standards requirements regarding in-bay and conveyor type car wash facilities.

**Appendix F**

Added new language requirements regarding large commercial and industrial water users and the criteria for evaluation of allowable flow rates within the City.