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ITEM NO. 844

Temporary and Permanent Blow-off Assemblies

- **844.1 DESCRIPTION:** This item shall consist of blow-off assemblies installed in accordance with these specifications and as directed by the Engineer.
- **844.2 REFERENCED STANDARDS:** Reference standards cited in this Specification Item No. 844 refer to the current reference standard published at the time of the latest revision date.
 - 1. San Antonio Water System (SAWS):
 - a. Specifications for Water and Sanitary Sewer Construction
 - b. SAWS Materials Specifications
 - 2. City of San Antonio (COSA) Standard Specification for Construction
 - 3. Texas Commission of Environmental Quality (TCEQ)
 - a. Chapter 210 Use of Reclaim Water
 - b. Chapter 290 Rules and Regulations for Public Regulations for Public Water Systems
 - c. Chapter 213 Edwards Aquifer.
 - 4. American National Standard Institute
 - a. ANSI A 21.11/AWWA C111 Standard for Rubber-Gasket Joints for Ductile-Iron Pressure Pipe and Fittings.
 - ANSI/NSF Standard 61 Drinking Water System Health Components. American Society for Testing and Materials (ASTM) International: Pressure Pipe and Fittings.
 - a. ASTM A 36 Standard Specification for Carbon Structural Steel.
 - b. ASTM A 536 Standard Specification for Ductile Iron Castings.
 - c. ASTM A 126 Standard Specification for Gray Iron Castings for Valves, Flanges, and Pipe Fittings.
 - d. ASTM B 21 Standard Specification for Naval Brass Rod, Bar, and Shapes.
 - e. ASTM B 98 Standard Specification for Copper-Silicon Alloy Rod, Bar, and Shapes.
 - f. ASTM B 301 Standard Specification for Free-Cutting Copper Rod and Bar.
 - g. ASTM B 584 Standard Specification for Copper Alloy Sand Casting for General Application.
 - h. ASTM E 165 Standard Test Method for Liquid Penetrant Examination.
 - i. ASTM E 709 Standard Guide for Magnetic Particle Examination.

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- j. ASTM F 1674 Standard Test Method for Joint Restraint Products for Use with PVC Pipe.
- 6. American Water Works Association (AWWA)

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- a. AWWA C 207 Standard for Steel Pipe Flanges for Waterworks Service - Sizes 4 Inches through 144 Inches
- **844.3 SUBMITTALS:** Contractor shall submit manufacturer's product data, instructions, recommendations, shop drawing, and certifications. All submittals shall be in accordance with Engineer's requirements and submittals shall be approved prior to delivery.
- **844.4 MATERIALS:** The materials for blow-off assemblies, installation and adjustment shall conform to the specifications contained within the latest revision of SAWS' Material Specification.
- **844.5 CONSTRUCTION:** Permanent and temporary blow-off assemblies shall be installed where shown on the plans and/or at locations designated by the Engineer and at the end of the all dead end mains in accordance with the Texas Administrative Code (TAC) rules to include 30 TAC § 290.44.(d)(5), (6).
 - 1. The permanent blow-off shall consist of all HDPE, valve, and fittings of the various sizes shown on the plans, six (6) inch valve box assembly and concrete collar around the valve box.
 - 2. The temporary blow-off shall consist of all, DI or HDPE, valve and fittings of the various sizes shown on the plans.
 - 3. Valve box shall be raised or installed to finished grade and installed in accordance with Standard Drawing DD-844 Series.

844.6 MEASUREMENT:

- 1. Permanent Blow-off assemblies will be measured by the required unit of each such assembly of the various sizes of permanent blow-offs installed.
- 2. Temporary Blow-off assemblies will be measured by the required unit of each such assembly of the various sizes of temporary blow-offs installed.
- **844.7 PAYMENT:** Payment for Permanent and Temporary Blow-off Assemblies will be made at the unit price bid for each such required assembly of the various types and sizes installed in accordance with the details shown in the Standard Drawing DD-844 Series.
 - 1. **844.7.1** Payment for Permanent Blow-Off Assembly shall include excavation, selected embedment material, anti-corrosion embedment when specified, and the hauling and disposition of surplus excavated materials, compaction, compaction testing, blocking, accessories and appurtenances, hauling and disposition of surplus excavated material, including all existing pipe, fittings, appurtenances to be abandoned or removed, surface and pavement restoration, installation of all-weather surface, and other required testing.
 - 2. **844.7.2** Payment for Temporary Blow-Off Assembly shall include excavation, selected embedment material, anti-corrosion embedment when specified, removal of Temporary Blow-off assembly and the hauling and disposition of surplus

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excavated materials, compaction, compaction testing, blocking, accessories and appurtenances, hauling and disposition of surplus excavated material, including all existing pipe, fittings, appurtenances to be abandoned or removed, surface and pavement restoration, installation of all-weather surface, and other required testing.

- 3. Materials paid on site will be in accordance with Table 1 of Specification Item No. 100 Mobilization.
- 4. Payment for eccentric reducers and eccentrically tapped caps and flanges will be made under Specification Item No. 836, "Cast-Iron Fittings,"
- 5. Payment for the pipe nipple with reaction stop ring will be made under Specification Item No. 812, "Water Main Installation."

-End of Specification-



































