SECTION 031515–CONCRETE ACCESSORIES FOR STEAM UTILITY DISTRIBUTION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification sections, apply to this section.

1.2 SUMMARY

A. This section includes the furnishing and installation of concrete accessories.

B. Related sections include the following:

1. Division 03 Section "Concrete Formwork for Steam Utility Distribution."
2. Division 03 Section "Concrete Reinforcement for Steam Utility Distribution."
3. Division 03 Section "Cast-In-Place Concrete for Steam Utility Distribution."
4. Respective Systems Section for Mechanical, Process and Electrical Anchorage Devices.

1.3 REFERENCES

A. Except as herein specified or as indicated on the Drawings, the work of this section shall comply with ASTM Standard Specifications: D1751 - Preformed Expansion Joint Filler for Concrete Paving and Structural Construction (Nonextruding and Resilient Bituminous Types).

PART 2 - PRODUCTS

2.1 MATERIALS

A. Waterstops:

1. W. R. Meadows, Inc., Elgin, Illinois; Vinylex Corporation, Knoxville, Tennessee; Greenstreak, St. Louis, Missouri; or equal.

2. Multi-ribbed, 4-inch, polyvinylchloride.

B. Inserts for general trades:

1. Halfen Anchoring Systems; Heckman Building Products; Hohmann & Barnard, Inc.; or equal.

2. Malleable iron and steel, strength as required.

3. Include bolts, nuts and washers.

4. All steel shall be galvanized.

C. Waterproof bead:

1. Waterstop RX by CETCO; or equal.
2. 3/4-inch x 3/8-inch.
3. Provide at joints marked WSJ on Drawings and at all other joints in slabs and walls.

**SPECIFIER: Coordinate the following with Division 05 Section “Metal Fabrications for Steam Utility Distribution.” Do not specify manhole steps in 2 places.**

**D. Manhole steps:**

1. Provide either cast iron or plastic.
2. **Cast iron:**
   b. Minimum dimensions: 10 inches deep by 14 inches wide, 5-inch tread depth, 1-inch x 1-inch tread section with 2-inch rail height.
3. **Plastic:**
   a. PS2-PF as manufactured by M.A. Industries, Inc. Peachtree City, GA or approved equal.
   b. Copolymer polypropylene plastic manhole steps with Grade 60 No. 4 reinforcing bar core.
   c. Grip width: 14 inches.
   d. Grip depth: 6 inches.

**E. Manhole Castings:**

1. Manufacturers: East Jordan Iron Works (EJIW) 1320, Neenah R1582, or approved equal.

**F. Other materials:** All other materials not specifically described but required for a complete and proper installation of concrete accessories shall be as selected by Contractor subject to the approval of Engineer.

**PART 3 - EXECUTION**

**3.1 INSTALLATION**

**A. Install concrete accessories:**

1. As indicated on the Drawings.
2. As specified in various other sections.
3. As necessary for the proper and complete performance of the Work.

**B. Waterstops:**

1. Tie up to reinforcing steel with wire to prevent folding over during concrete placement.
2. Weld, heat, or glue together at splices and joints in accordance with manufacturer's recommendations.

C. Waterproof bead:

1. Install in joints at last convenient time of accessibility.
2. Apply in strict accordance with manufacturer's instructions.

D. Piping, mechanical and electrical equipment support: Refer to Division 03 Section "Concrete Formwork for Steam Utility Distribution."

END OF SECTION 031515