

SECTION 1404

POLYVINYL CHLORIDE (PVC) PIPE

1404.0100 GENERAL

1404.0101 Description of Work. The work under this Section shall consist of furnishing polyvinyl chloride (PVC) pipe and all required fittings, as well as installing the PVC pipe, all in accordance with the details shown on the plans and with the requirements of these specifications and the Approved Materials List (Appendix A).

1404.0104 Delivery, Storage, and Handling. PVC pipe shall be delivered to the site, stored, and handled in accordance with the manufacturer's instructions except as modified by the plans, special specifications, or as directed by the Engineer.

During shipment and storage, the pipe ends shall be securely covered. Pipe delivered to a project without the ends covered will be rejected and removed from the site. Cleaning of contaminated pipe is not allowed.

PVC pipe shall be stored in a manner such that it is protected from exposure to sunlight and/or extreme heat. Sunburned pipe is not allowed.

1404.0200 PRODUCTS

1404.0201 Materials.

(A) Polyvinyl Chloride Pipe. PVC pipe shall comply with the standards shown in Appendix B.

(B) Pressure Class. Unless otherwise specified on the plans or in the special specifications, 4- to 12-inch PVC pipe shall be dimension ratio 14 (DR 14), pressure class 305 (cast iron O.D.). 16-inch PVC pipe shall be dimension ratio 18 (DR 18), pressure class 235 (cast iron O.D.).

(C) Reclaimed Water Pipe. PVC pipe used for reclaimed water systems shall be colored purple and embossed or integrally stamped/marked: CAUTION – RECLAIMED WATER – DO NOT DRINK. When approved by the Engineer, PVC pipe may be identified with purple identification tape or a purple polyethylene vinyl wrap.

1404.0300 EXECUTION

1404.0301 General. PVC pipe shall be furnished with bell-and-spigot joints. Elastomeric gaskets shall be furnished for all joints. Restrained joints shall be in accordance with Section 1406.

SECTION 1404

1404.0302 Installation.

(A) **General.** Installation of PVC pipe shall conform to the applicable requirements of Appendix B, Section 0209, and AWWA M23. PVC pipe bell and spigot joints shall be assembled/installed with no horizontal or vertical joint deflection and no longitudinal pipe bending. The Contractor shall use standard approved bends/fittings or a manufacturer's specifically designed gasketed joint to achieve pipe deflection.

(B) **Workmanship.** All the Contractor's or subcontractor's personnel shall be skilled and knowledgeable regarding installation procedures for the pipe, fittings, and appurtenances being installed.

(C) **Tapping.** Tapping shall be in accordance with Section 1407. Size on size tapping for pipe 12 inches in diameter and larger will not be accepted.