

San Antonio Water System Standard Specifications for Construction

ITEM NO. 819
POLYVINYL CHLORIDE (C-905) PIPE
NOMINAL DIAMETERS 14" THROUGH 36"

819.1 DESCRIPTION: This item shall consist of polyvinyl chloride pipe (in above diamters) installation in accordance with these specifications and as directed by the Engineer. Deflection of PVC C-905 pipe will not be allowed.

819.2 MATERIALS: The materials for PVC pipe installation shall conform to the specifications contained within the latest revision of SAWS Material Specification "Polyvinyl Chloride (PVC) Pipe", Item No. 819-01.

819.3 CONSTRUCTION METHOD: PVC (C-905) pipe shall be installed as specified within "Water Main Installation", Item No. 812 of these specifications. PVC (C-905) mains shall be laid to the depth and grades shown on the construction plans. The pipe shall be laid by mean of inserting the spigot end into the bell flush with the insertion line or as recommended by the manufacturer. At no time shall the bell end be allowed to go past the "insertion line". A gap between the end of the spigot and the adjoining pipe is necessary to allow for expansion and contraction.

Joint Restraints: All mains consisting of PVC (C-905) joint restraints shall be installed as specified in the Material Specifications, "Pipe Joint Restraint Systems", Item No. 95-10, in accordance with manufacturer's recommendations. Joint restraints shall be non-directional and installed as shown on the Joint Restraint Standard Detail Drawing or as shown on the plan drawings. The Contractor may be required to restrain additional joints depending on the size of main and at the direction of the Construction Inspector or Engineer.

PVC (C-905) shall be field cut using a power saw with a steel blade or abrasive disc depending on the size of pipe. If a bevel is needed after field cutting, it should be in accordance with Uni-Bell recommendations.

Tracer Wire: Tracer wire shall be utilized for location purposes and tapped to the pipe. Tracer wire shall be of solid core (14 gauge insulated), and shall be taped to the main in minimum 10 inch increments. The tracer wire shall also come up to the top of valve extensions and fire hydrant stems, as directed by the Inspector.

819.4 MEASUREMENT: PVC (C-905) pipe installed will be measured as outlined in "Water Main Installation", Item No. 812 of these Specifications.

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819.5 **PAYMENT:** Payment for PVC (C-905) water main installed will be made as outlined in "Water Main Installation", Item No. 812 of these Specifications.