

City of Carlsbad
Specifications for the Installation of Water and Sewer Improvements

The following specifications for materials and equipment to be used in the installation of potable water and sanitary sewer improvements are intended to be the minimum specifications to be accepted by the City. Where specific items are called for by name, make, or catalog number such reference shall be interpreted as establishing a standard quality and not construed as limiting competition. The use of substitutes is permissible in most cases, provided written request and proper certifications are submitted to the City for review and approval.

Materials and equipment used in the installation of water and sewer improvements shall be new and unused, manufactured in compliance with standards published by the American Society for Testing and Materials (ASTM), the American Water Works Association (AWWA) or other published applicable standards

SANITARY SEWER

Collector: 8 inches minimum, PVC, SDR 35, push-on gasketed sewer pipe.

Service: 4 inches minimum, PVC, SDR 35, push-on, gasketed sewer pipe.

Fittings: PVC, SDR 35, push-on, gasketed sewer pipe.

Manholes: Precast reinforced concrete, 4 ft. inside diameter, type “E” Concentric manholes.

Manhole rim and lid: Standard cast iron, bottom flange, 325 lb. manhole rim and lid, concealed pick slot, vent hole required. East Jordan Iron Works # 2141 –1202 or equal.

POTABLE WATER

Distribution Lines: 6 inches minimum, PVC, SDR 18, Class 150, C-900 push gasketed water pipe (Connection to existing mains is done by the City upon request).

Fittings: Mechanical joint (MJ), class 350 S.S.B. type, ductile iron pipe fittings. Fire hydrant lines require MJ x Flange fittings.

Gate Valves: Bonded resilient seat, non-raising stem type, mechanical joint, fuse bonded epoxy coated inside and out, 2 inch operating nut, opens counter-clockwise.

1. Valves to be used for isolation of main lines shall be MJ x MJ type.
2. Valves to be used on fire hydrant lines shall be MJ x flange type.

Fire Hydrants: 3.5 bury, traffic type, Model US M-94, Metropolitan 250, US pipe fire hydrant or Mueller Super Centurion 250 fire hydrant. A flange x MJ gate valve shall be provided with the hydrant.

Valve Boxes: Shorty valve boxes No. 70, as manufactured by East Jordan Iron, or equal.

Mechanical Joint Restraining Accessories: Mechanical Joint Restraining Gland Kits as manufactured by EBAA Iron Co. or equal, shall be used at every mechanical joint i.e. tee, valve, fire hydrant, etc.

Service Lines: 1 inch minimum for single residence, type K soft copper, single coil, 60 ft. rolls only.

Service Saddle: Two piece, single strap, "CC" thread bronze service saddle to fit PVC, SDR 18 Class 150, C-900 water pipe.

Corporation Stop: Plug valve type "CC" thread x copper flare brass corporation stop.

Curb Stop: McDonald #6102 1 x 5 ¼" Brass Ball Valve (Product #4129-100-6).

Meter Coupling: Muller #10890 Brass Meter Coupling, no substitutes.

Meter Boxes: 18 inch x 18 inch, Model 34P18MSP, plastic meter box with cast iron ring and coil spring locking lid as manufactured by East Jordan Iron Works, Inc. Box shall have two (2) 3 inch x 4 inch wide cut-outs opposite from each other, at the bottom of the box for installation of the service line and easy access to the curb stop and meter coupling.

Installation of sewer collections and services, and water distribution lines and services shall be in conformance with the New Mexico Standards for Public Works Construction with latest revisions, as published by the New Mexico Chapter of the American Public Works Association.