

Instructions for the Installation of City Water Service (Copper, PVC, CPVC, Polybutylene, Cross-linked polyethylene (PEX) plastic tubing)

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INSPECTION All piping, joints and connections shall be exposed for inspection until after final approval has been made. In addition, access to the house is necessary for inspection of the well pump disconnect. Permit number should be given when phoning, faxing or sending an email in request for inspection. (382-6018 or 382-6250) Requests should be made in the morning before 9:30 a.m. for the inspection to be made the same day.

TAP CONNECTION The water service line must be the same size as the water meter (3/4" pipe size or larger). The water meter access box shall be kept at finish grade level. IPC 604.1, CABO 3403.4

MATERIALS The water line may be of Type M, L or K copper (copper sweat joints must be of lead free solder, i.e. 95/5 solder, and lead free soldering flux), schedule 40 PVC plastic, CPVC plastic (plastic joints must be made with the appropriate cleaner and glue as required by the manufacturer), cross-linked polyethylene (PEX) plastic tubing, polybutylene plastic (polybutylene joints underground are prohibited unless installed with an access box over each joint). Use of other materials should be discussed with the plumbing inspector prior to installation. IPC 606.4, CABO 3403.1

UNDERGROUND The water line must be installed a minimum of 18" deep (below the frost depth). The water device should pass under the footing upon entering the house. Water service pipe and the building sewer shall be separated by 5 feet of undisturbed or compacted earth. The required separation distance shall not apply where the bottom of the water service pipe within 5 feet of the sewer is a minimum of 12 inches above the top of the highest point of the sewer and the pipe materials conform to §704.1. When backfilling ditch, dirt must be loose earth, free of bricks, rocks, broken concrete and other rubble. Installation of hose outlets below ground level is prohibited. IPC 306.6 & 604.2, CABO 3403

CUT-OFF VALVE A full open type valve, i.e. gate valve, shall be installed in the water service line at the entrance to the house. An access box shall be located over the cut-off valve if installed outside in the ground. The cut-off valve may be installed inside the house in an accessible location. IPC 607, CABO 3408

ELECTRICAL GROUND If existing electrical system grounded by well piping and a non-metallic city water service line is installed, necessary changes must be made to maintain proper electrical ground. Consult your Electrical Inspector.

MISCELLANEOUS The well water pump must be completely disconnected from the city water system, but may be kept in service for a hose faucet, etc. If the house is equipped with a hot water boiler heating system, an approved double check type backflow preventer must be installed in the make-up water feed line to the boiler. Outside hose bibbs shall be protected with backflow preventers if used with city water (IPC 609.6.1, CABO P-2402.0). When street main pressure exceeds 80 lbs. per square inch, an approved pressure reducing valve shall be installed in the water service pipe near its entrance to the building. Check with your Plumbing Inspector. IPC 609.14.4.2 & 605.8, CABO 3403.2.2

