

## **DOMESTIC WATER**

1. Water mains up to 12 inches in diameter shall be PVC AWWA C905, DR 18 pipe and shall utilize gate valves, water mains greater than 12 inches in diameter shall utilize C900, DR 18 pipe and shall utilize butterfly valves. All water mains shall be constructed with the top of pipe 4.5 feet below finish grade, except where otherwise indicated with specific elevations and approved by the City Engineer. Water services shall be constructed of polyethylene tubing conforming to AWWA C901, 250 PSI located and sized as shown on the construction plans.
2. 48 hours prior to disruption, shut-off or connection to existing water systems; the Contractor shall inform and receive approval from the City Engineering Division. Any connection points shall be exposed at least 24 hours prior to connection, to verify location and fitting requirements.
3. At least 24 hours prior to shut-off, the Contractor shall notify all affected properties utilizing flyers, door hangers or letters. Notifications shall contain at a minimum: date and time of shutoff, anticipated duration, Contractor's name and phone number, and an emergency contact person and phone number. A copy of the notification shall be provided to the City Engineering Division.
4. No connections for the purpose of obtaining water supply during construction shall be made, without first obtaining a permit from the City Water Division.
5. Any and all fittings or appurtenances removed from the City of Post Falls' water lines, as part of the project, shall be salvaged and returned to the City of Post Falls Water Division by the Contractor.
6. All water mains and services shall be installed with continuous tracer wire and plastic marker tape. Plastic marker tape shall be installed 2 feet above the water main. Tracer wire shall be installed along the top of the water main and shall be tested prior to sub-grade approval.
7. All water mains shall be separated at least ten feet horizontally from sanitary or storm sewer systems. Crossing of water mains and sewer systems shall have a minimum 18-inch vertical separation, with the water main being centered over the sewer. Any anticipated separation differing from the minimum standards contained herein, shall conform to the Idaho Rules for Waste Water (IDAPA 58.01.16).
8. Maximum limits of water main joint and pipe deflection shall be obtained from the manufacturer, and submitted to the Engineer of Record and City Engineer prior to construction. Where laying conditions require pipe/joint deflection in excess of limits specified by the manufacturer, a thrust blocked fitting shall be used.

9. All thrust blocking shall be formed in place against undisturbed or compacted soil, and conform to the minimum dimensions shown in SD 403. The use of pre-cast thrust blocks is prohibited. All bolts and nuts shall be free of concrete and accessible by wrench.
10. All water mains, fire mains, valves, fire hydrants, services and appurtenances shall be installed, hydro static tested at 150psi for a minimum of 2 hours, bacteria tested, and approved, in accordance with referenced standards in the General Notes and City Requirements, prior to paving. Results of chlorination and bacteria tests shall be submitted and approved by the City Engineering Division and City Water Division, prior to operating valves to put new mains into service.
11. All water main taps shall be a minimum of 16 inches apart and 16 inches from the bell and stab ends of the pipes.