

WATER

1. A City of Peoria off-site permit is required. The charges for these permits are 3.5% of the contract price plus \$15 dollars. Other permits, as required, shall be secured from the appropriate agency; i.e. County permits for County right-of-way.
2. Acceptable Water Line Materials:
 - a. Ductile Iron Pipe, pressure class 350, is acceptable for water lines sizes six (6) inches through twelve (12) inches in diameter. All Ductile Iron Pipe shall be polywrapped in conformance with Section 610.5 of the MAG Standard Specifications.
 - b. Ductile Iron Pipe, pressure class 250 minimum, is acceptable for water lines 16 inches in diameter. All Ductile Iron Pipe shall be polywrapped in conformance with Section 610.5 of the MAG Standard Specifications.
 - c. PVC Pipe, AWWA C-900 pressure class 200, is acceptable for water lines sizes six (6) inches and eight (8) inches in diameter.
3. Trench excavation, backfilling and compaction shall conform with MAG Standard Specification Section 601 except as modified herein.
4. Bedding and backfill for PVC water lines shall conform with the minimum requirements of the City of Peoria Standard for Bedding and Backfill for PVC Pipelines (Detail 406).
5. Backfill shall be Type I as defined in Section 601 of the MAG Standard Specifications.
6. The Contractor is responsible to notify the Project Engineer before the water line or fittings are covered, so "as-built" measurements may be taken. Any changes to the approved plans must be authorized by the Project Engineer and the CITY before the change is made in the field.
7. Six-(6) inch and eight (8) inch waterlines located in streets shall have a minimum cover of 48 inches over the top of the pipe to finish grade. Six (6) inch and eight (8) inch waterlines in locations other than streets shall have a minimum cover of 36 inches over the top of the pipe to finish grade, unless design conditions warrant additional cover.

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8. Twelve (12) inch waterlines located in streets shall have a minimum cover of 60 inches over the top of the pipe to finish grade. Twelve (12) inch waterlines in locations other than streets shall have a minimum cover of 48 inches over the top of the pipe to finish grade, unless design conditions warrant additional cover.
9. Sixteen (16) inch waterlines shall have a minimum cover of 60 inches over the top of the pipe to finish grade, unless design conditions warrant additional cover.
10. All stub-outs shall have a two (2) inch brass ball corp stop as a blow-off, left in place with a two (2) inch riser, per MAG Standard Detail 390 "A," and shall be accessible to use.
11. Fire hydrant manufacturer must be approved by the City of Peoria prior to installation. Approved hydrants include Waterous, Clow, Mueller, A.V.K., and Kennedy Model K81.
12. All valves 16 inches and under shall be resilient seat AWWA approved gate valves and shall open by turning to the left.
13. Valves shall not be located in sidewalks, gutters, curb, or valley gutters.
14. All valve boxes shall conform to MAG Standard Detail 391-1, Type A.
15. Contractors shall not operate valves on the existing City system.
16. Water lines shall be installed in such a manner to eliminate dips or high points. Water lines constructed on linear streets shall not have horizontal alignment deflections. All horizontal deflections in water lines (constructed in nonlinear streets) shall comply with the manufacturer's recommendations for deflection at joints.
17. Thrust restraint shall be inspected prior to backfill. Reinforcing steel and form work shall be inspected prior to placing concrete for thrust blocks. Thrust restraint shall conform to MAG Standard Specification 610.4 and MAG Standard Details 301, 380 and 381.

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18. Water services two (2) inches and smaller in diameter shall conform to the City of Peoria standard for water meter installation. The minimum service connection shall be one (1) inch. Single family residences may use a minimum one-(1) inch service connection. Water service saddle manufacturer and model must be approved by the City of Peoria prior to installation.
19. Water services shall not be located under driveways, or under concrete aprons adjacent to driveways.
20. An approved metallic locator tape shall be installed with all PVC water lines (linear and nonlinear), and attached to valve boxes.
21. All pavement replacement shall conform with MAG Standard Detail 200 with a "T-Top" - modified with a one-half (1/2) sack Portland Cement ABC slurry, which conforms with MAG Standard Specification 728, (modified for one-half sack Portland Cement), for trench backfill from one (1) foot above the top of pipe to the existing pavement subgrade. Pavement replacement thickness shall be 1.5 times the existing asphalt thickness.
22. Pressure testing shall not be conducted until after the Contractor has pretested 100% of the lines. Inspection testing must be called for twenty-four (24) hours in advance. Water lines must pass pressure testing prior to paving.
23. All mains shall be chlorinated in conformance with Section 611 of MAG Standard Specifications. Samples will be taken on two (2) consecutive days and in conformance with MAG Standard Specification Section 611.
24. The contractor shall not tie into existing mains without prior approval of the City's Off-Site Inspection Supervisor.
25. The following MAG Uniform Standard Details are specifically not approved.
 - No. 345-2 4", 6" Water Meter
 - No. 360 Fire Hydrant Installation
 - No. 389 Curb Stop with Valve Box & Cover
 - No. 391-1 Valve Box Installation and Grade Adjustment, Types "B" & "C"
25. It is the contractor's responsibility to meet OSHA standards for "trench safety".
26. In accordance with AAC R18-4-119, all materials added after January 1, 1993, which may come into contact with drinking water shall conform to National Sanitation Foundation Standards 60 and 61".