

**CITY OF TOLLESON**  
**ENGINEERING DEPARTMENT**

**WATER NOTES**

1. All construction shall be in accordance with current MAG Specifications and Standard Details.
2. The contractor shall obtain all necessary permits prior to construction.
3. City of Tolleson Building Department shall be notified 24 hours prior to starting each phase of construction. Phone, (623) 936-7111.
4. Any work performed without the approval of the City of Tolleson Building Department and/or all work and material not in conformance with the specifications is subject to removal and replacement at the contractor's expense.
5. The contractor will uncover all existing lines being tied into to verify their location. The contractor will locate, or have located, all existing underground utilities (electric, telephone, pipeline, etc.) and structures in advance of construction and will eliminate all conflicts prior to start of construction. BLUE STAKE telephone number (602) 263-1100.
6. The City of Tolleson is not responsible for liability accrued due to delays and/or damages to utilities in conjunction with this construction. Also, the City will not participate in the cost of construction or utility relocation.
7. No final inspection walk through will be scheduled until "as-built" plans have been submitted by the Engineer or Surveyor for review. No final acceptance shall be issued until "as-built" plans have been reviewed and approved by the City Engineer. Upon approval, the Owner shall provide to the City one set of mylar reproducible plans, two blackline copies, and one digital copy on CD or DVD with each plan sheet as a separate .pdf file.
8. Backfilling shall not be started until lines are approved by the City.
9. Fire hydrants shall be Watrous, break-away, dry-barrel design and shall be furnished by the contractor. All fire hydrants shall be painted NFPA Yellow after installation. Each fire hydrant shall be furnished with a gate valve.
10. All valves shall be Mueller, Clow, or American Flow Control 2500-1 Series, gate type, unless otherwise noted, and open to the left.
11. All ductile iron pipe, valves, and fittings shall be polywrapped in accordance with MAG spec 610.6.

12. All service lines 3/4" to 2" size shall be type K copper pipe from City main to meter and from meter to backflow preventer and a minimum buried length of three feet beyond the backflow preventer, if applicable. Service connections shall conform to City of Phoenix Standard Detail P1342. Pack joints shall include a locking device such as a split clamp which is drawn down securely on the tubing or pipe by tightening a stainless steel clamp screw(s). All service lines greater than 2" size shall be ductile iron pipe from City main to meter and from meter to backflow preventer and a minimum buried length of three feet beyond the backflow preventer, if applicable.
13. All taps shall use a bronze service saddle. Eight (8) inches or smaller shall be single strap and ten (10) inches or greater shall be double strap.
14. Meter boxes and lids shall be supplied by the developer and installed facing lot. (See MAG Standard Detail 320). Plastic meter boxes to be used for residential and concrete meter boxes with steel lid to be used for commercial and industrial.
15. City of Tolleson to furnish all water meters with prevailing costs to be paid by developer.
16. All valve boxes shall be Type "A" and furnished with a debris cap. C900 PVC may be used in lieu of concrete pipe.
17. All water line compaction shall be Type 1.
18. All waterline fittings shall be cast or ductile iron, Class 350, with mechanical joints. "Uni-flange" fittings are not allowed.
19. All backflow preventers shall have AWWA certification. Prior to occupancy, Contactor or Owner shall provide testing by a certified tester for all backflow preventers. Testing shall be witnessed by the City Inspector. A copy of test reports shall be provided to the City Inspector.
20. Final testing for bacteriologic contamination shall be performed by one of the City's authorized laboratories – Test America (480-785-0043) or Aquatic Consulting and Testing (480-921-0844). The Contractor shall be responsible for the cost of said laboratory testing and shall make payment directly to the testing company. Should any tests fail, the Contractor shall also be responsible for all City costs associated with the collection of samples for retesting.
21. Disposal of excess material within the City Limits is prohibited. A use permit is required for disposal or stockpiling of material within a residential area.
22. Stockpiling of excavated material shall not exceed a height of six (6) feet above the natural ground elevation.
23. The slopes on all sides of the stockpiled excavated material shall not exceed a 1 to 4 ratio of height to length.

24. Traffic control shall be maintained in accordance with MAG Spec. 401 and the Manual on Uniform Traffic Control Devices.
25. The contractor shall provide adequate means for cleaning trucks and/or other equipment of mud prior to entering public streets. It is the contractor's responsibility to clean streets and take whatever measures are necessary to ensure that all roads are maintained in a clean, mud and dust free condition at all times.
26. Applications for Street Cut Permits must be approved by the Building Department prior to approval of improvement plans. All pavement replacement shall be in accordance with MAG Standard Detail 200, "T" Top Type.
27. All contractors shall contract for private trash pickup.
28. Any and all damage to existing public improvements shall be repaired by the contractor to the City's satisfaction prior to issuance of final project acceptance.
29. I hereby certify that the "as-built" information as shown hereon was made under my supervision, or as noted, and is correct to the best of my knowledge and belief.

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Registered Professional Engineer or Licensed Surveyor

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Date