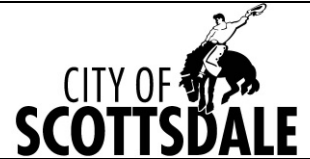


Potable Water Checklist



This checklist is a guide for submitting complete and accurate plans to the city. See your project's DR, PP, ZN, UP, the Design Standards & Policies Manual (DS&PM), and contact your Project Coordinator for specific requirements.

General Requirements

- 1. Cover sheet and basic plan requirements per Plans Cover Sheet & Typical Sheet Checklist and the DS&PM, Section 1-2.
- 2. Acquire Maricopa County Health Department approval and signature. See DS&PM Section 1-2.
- 3. Provide this statement on the cover sheet: "Use Mega-Lug restraining joints or COS approved equal at all deflections, bends, tees, crosses, valves and dead-end lines."
- 4. Reference all elevations shown on plans to an approved city benchmark (NAVD 88) and provide certification statement for benchmark adequacy from Registered Land Surveyor.
- 5. Coordinate plans for this development with all current and proposed adjacent projects, including private developments and COS Capital and Improvement District Projects.
- 6. If portions of the improvements shown are within another jurisdiction, coordinate with that jurisdiction and acquire appropriate permits. Indicate the permit number on the cover sheet.
- 7. Water line sizes and location must conform to the city's Water Master Plan and approved Subdivision Master Plan.
- 8. Water lines located within easements or tracts shall have a minimum 20-foot wide dedication.
- 9. Show all existing water lines and nearest fire hydrants and show their dimensions. Waterlines are required along all frontages unless approved by Water Resources.
- 10. Provide station and offsets for all utilities.
- 11. No public utility lines are permitted within drainage basins.
- 12. Install water lines in standard horizontal locations as described in the DS&PM Chapter 6. Call out minimum vertical clearances for utility crossings in profile. Provide minimum cover per COS standards.
- 13. Waterline materials shall conform to current COS Supplement to MAG and the DS&PM.
- 14. Provide waterline stub-outs for all adjacent properties.
- 15. All dip sections must be shown in profile view and must conform to COS Supplement to MAG.
- 16. Reference MAG Standard Detail for pipe encasement when applicable.
- 17. Dead-end lines shall be extended beyond paved surfaces and equipped with a curb stop per MAG Standard Detail 2390-B.
- 18. Valve locations must comply with DS&PM Chapter 6.
- 19. Fire hydrant installations must comply with Fire Department stipulations & DS&PM requirements.

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Potable Water Checklist (continued)

- 20. Provide pressure certification & flow test information.
- 21. Provide PRV detail (to be reviewed by Water Operations). Provide Engineer sealed cost estimate for PRV and vault installation.
- 22. Provide Booster Pump Station plans designed in accordance with COS Water Resource Department standards. (To be reviewed by Water Operations).
- 23. Profile lines 12" and larger.
- 24. Provide Maintenance and Repair Accessibility.
- 25. Call-out water utility provider if other than COS.
- 26. Provide material specifications.
- 27. Provide electronic locators per COS Supplement to MAG #610.
- 28. Provide special details.
- 29. Pay amount specified by Waterline Payback # _____.
- 30. In-Lieu Fee Payment required.
- 31. Release or abandonment of easements. Fee required \$_____.
- 32. Provide one Water Sampling Station for each 300 units or a portion thereof, as per DS&PM Chapter 6.
- 33. Provide a drainage report indicating the 100-year storm Q and the velocities over the proposed new pipe installations. If the flow is over 50 cfs, provide 6-foot minimum cover under the wash crossing using a Standard COS dip crossing. If the flow is over 600 cfs, provide a scour analysis for the wash crossing. The minimum depth of cover over the pipe would be the scour depth plus three feet.

Show These Items on Service Tap Detail

- 1. Station location of water service.
- 2. Minimum 6-ft separation between water and sewer taps
- 3. Standard detail number.
- 4. Station location of backflow prevention device.
- 5. Water meter box to be located at the edge of the ROW or back of the PUE.

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