

WATER IMPROVEMENT PLAN CHECKLIST

Project Name: _____ Designer: _____
Firm: _____ Date: _____

ITEMS TO BE SUBMITTED WITH PLAN

Compliance

- 1. A current copy of the water plan with engineer's stamp and signature.
- 2. Subdivision plat in its most final form, recorded survey, or recorded legal description reflecting current property lines.
- 3. Improvement plans (paving, grading, sewer, etc.) or site development plan.
- 4. Underground electric layout
- 5. Special specifications, if required.
- 6. Project phasing: Separate water plans for each phase.
- 7. New easement legal descriptions, labeled current ownership and/or recorded legal descriptions for existing easements. (Submit recorded easement(s) after plan approval.) A minimum 25' wide easement required for utility only, minimum 30' required for utility, ingress and egress.
- 8. All water plan sheets shall be a minimum horizontal scale of 1"=40', vertical scale of 1"=4'.

ITEMS TO BE ADDRESSED ON PLAN

- 1. Plan symbols and drafting conventions shall be per Tucson Water Standards except as modified by this checklist.
- 2. 24" x 36" water plan format w/ standard title block and current Blue Stake number.
- 3. North arrow and scale names.
- 4. All street names labeled with their permanent and jurisdiction-approved names.
- 5. Location plan on cover sheet with all applicable information (township, range, section, scale, etc.).
- 6. Cover sheet with all standard applicable information, including match lines, main sizes, and zone connections called out on site plan.
- 7. Cover reflects interior sheets.
- 8. Provide additional notes, other than those indicated on general notes and standard detail sheets.

Compliance

- 9. Provide legend on cover sheet.
- 10. Index of sheets shown, including Standard Note and Detail Sheet.
- 11. Provide space for signature of the water company, responsible party for fire service and all other pertinent agencies.
- 12. Owner/Developer information and consultant's logo on cover sheet.
- 13. Lettering and symbol size acceptable and legible (1/8" min.).
- 14. Project boundary, lot lines, & lot numbers with adjacent properties' ownership identified.
- 15. Rights-of-way, full width shown, w/ street names labeled public or private.
- 16. Show applicable easements, existing, proposed, and label easements.
- 17. Water lines cannot be placed in easements where there is a public right-of-way available for access to lot.
- 18. Plan matches easement descriptions, P.O.B., bearings, distances, etc. called out on plan.
- 19. Existing proposed paving, utilities, drainage facilities and obstructions in vicinity of water mains.
- 20. Existing water system shown correctly, including size, zone, and pipe material.
- 21. Development tied down; Sta. 10+00 on survey monument w/ applicable stationing.
- 22. Dimension from connections to nearest existing valves in both directions.
- 23. Phase lines (if applicable).
- 24. All new water system plotted **BOLD** (1.02 mm).
- 25. Plan: call outs for valving and/or fitting shown only once.
- 26. Abandoned main, material, and length specified.
- 27. Profile for 12" mains or larger. Size, material and slopes are shown clearly along new water profile (if applicable). Note: Vail Water may require profile for water mains smaller than 12".
- 28. All new mains of any size crossing lots or within easements require plan and profile design. Plan and profile in other situations on a case-by-case basis.
- 29. Stations shown at all CL inter, PTs, PCs, PRCs, PPCs, etc.
- 30. Metes and bounds provided if not parallel to property ROW centerline.

Compliance

- 31. Surveyable dimensions provided for all new radial water mains.
- 32. Valving acceptable (2 for tee, 3 for cross), w/ applicable fittings, bends.
- 33. Air release valves and/or combination air vacuum valves with size called out (minimum 1”).
- 34. In line valves provided, per ADEQ requirements.
- 35. Stubs, drain valve assemblies shown and labeled clearly.
- 36. Fire hydrants shown per Fire Department requirements.
- 37. Existing service tie-overs, renewals, and abandonments.
- 38. Meters located at property to be served: Meters are to be located per the detail on the Vail Water Standard Note and Detail Sheet.
- 39. All new water services shown clearly on their proper location and called out on the plans.
- 40. Electric pedestals & transformers clearly shown and dimensioned 10’ minimum from fire hydrants and 5’ minimum from water services per Vail Water Standard Note and Detail Sheet.
- 41. Static pressure zones identified, w/ closed valves, labeled zone boundaries.
- 42. Water notes only in standard note box; all other, use leaders only.
- 43. Dimension rights-of-way, waterlines, utilities, pavement, centerline, etc.
- 44. Special details (if applicable), street cross-sections.
- 45. Street cross-sections with all proposed utilities shown and dimensions from centerline.
- 46. Erase behind lettering, symbols, and other pertinent information.
- 44. All new water lines will be placed along the south and west side of all new streets.
- 45. A standard offset of 10’ from ROW centerline required (if applicable).
- 46. Zero percent (0%) slopes not acceptable use 0.1 percent minimum.
- 47. All sewer/water crossing require invert(s) information on plan view.
- 48. All new mains crossing lots or unpaved easements require plan and profile, profiling a case-by-case basis.