

APPENDIX A5

**ENGINEERING DEPARTMENT SUBMITTAL
POTABLE WATER DISTRIBUTION DATA SHEETS**

- I. Provisions must be made with respect to line sizing and easements to adjoining undeveloped properties and previously developed properties. If not, give narrative reason as to why the proposed system extension should be publicly maintained:

- II. Water Distribution System checklist:

- The proposed water system extension is to be dedicated to the City of Asheville.
- The proposed water system extension is a dedicated fire line to be privately owned and maintained. The dedicated fire line complies with all cross-connection control requirements.
- The proposed water system is to be a privately owned system with a master meter (State approval of private system plans must be obtained from NCDENR through the engineering Department). Water lines and appurtenances installed beyond a City of Asheville's master meter must comply with the current Regional Water Authority of Asheville, Buncombe and Henderson Standards; unless otherwise approved.
- Maximum hydrant spacing does not exceed required spacing.
- Maximum, in-line valve spacing does not exceed required spacing.
- Valving configuration complies with standard detail 6.17.
- Butterfly valves are provided for water lines > than 10-inch in diameter.
- All lines meet requirements with respect to size, area served and loops.
- All proposed water lines are to be looped where possible.
- All crossings with sewer lines meet State requirements of separation and materials.
- All utilities (existing and proposed) are separated by ten feet from the proposed extension or five feet within existing public rights-of-way where existing utilities are located.
- Fire hydrants, flushing hydrants or blow-offs are provided at all dead-end mains and low points of the proposed water system extension.
- air release valves are provided at all high points of the proposed water system extension.
- All tees, bends, plugs and fire hydrants have been provided with thrust blocks and restrained glands as required by the City of Asheville's Specifications and Details.
- Twenty foot easements, centered on extensions, shall be dedicated to the City of Asheville or the extensions are located at least ten feet within the right-of-way of a publicly maintained highway.

IV. The design Engineer, licensed in North Carolina, shall inspect the construction, furnish sealed and signed as-built mylar reproducible tracings and Autocad.dwg electronic files to the City of Asheville along with a certification that the extension was built in strict accordance with the latest revision of the City of Asheville's Standard Specifications and Details Manual.

SEAL AND SIGNATURE

DATE