

Fire flow requirements shall be determined in accordance with the requirements of the insurance services office and the local fire marshal. Minimum main size shall be eight (8) inches. However, in instances in which future looping, existing flow and pressure conditions, or other considerations deem that the minimum size of main be greater than those specified herein, the Water Works Superintendent may require a larger size main.

Proposed main sizes must be approved by the Water Works Superintendent. Upon request, the engineer shall furnish hydraulic calculations for the Water Works Superintendent's review.

LOOPING

All mains shall be looped except in extraordinary circumstances and with specific approval of the Water Works Superintendent. When the looping requirement has been waived, the main, as a minimum, shall be extended to the ends of all cul de sacs, dead-end streets, and easements. Typical details for cul-de-sacs are shown in the standard drawings. Unless otherwise specified by the Water Works Superintendent, water mains must be extended across the entirety of the property frontage to the neighboring frontage.

CONNECTIONS

Connections to existing mains shall be made with appropriate tapping sleeves and tapping valves (Smith Connection) unless specifically approved otherwise by the Water Works Superintendent.

CONTROL VALVES



GENERAL

Standard Drawings WW-114 thru WW-115 and WW-122 delineate the material and installation requirements for control and other valves.

LOCATION

Control valves shall be located as follows:

- At the intersection of all mains. Four (4) valves shall be furnished at "cross" intersections; three (3) valves at "tee" intersections
- Between intersections such that a maximum number of ten (10) customers will be isolated should the main be shutdown for any reason.
- At a maximum spacing of eight hundred (800) feet regardless of other requirements.

	VILLAGE OF INDIAN HILL DEPARTMENT OF WATER WORKS	DESIGN CRITERIA FOR WATER MAIN AND APPURTENANCES	DRAWING NO.
	APPROVED  DATE <u>November 2011</u>		WW-102