

WATER MAINS

GENERAL

Water mains shall be designed to conform to the construction and material requirements and other details contained in the Standard Drawings. Water mains in roadways shall be located as shown on Standard Drawings WW-129 thru WW-131.

PLANS AND PLAN REVIEW

Plans for all water main extensions shall include complete circulation within an area and between the area and the existing system, except in short cul-de-sacs. Plans for all water main extensions shall be prepared by the owner's engineer and submitted to the Indian Hill Water Works for review and approval. The cost of plan review shall be charged at a rate per hour established and published periodically by the Water Works Superintendent and shall be borne by the person(s) submitting the plans.

CONSTRUCTION INSPECTION AND CHARGES

Construction inspection, including pressure testing and bacteriological inspection, shall be charged at the rate per hour established and published periodically by the Water Works Superintendent. Inspections occurring outside of regular business hours shall be charged at the rate of time-and-one-half (1.5 times) the regular hourly rate. All construction inspection charges shall be the responsibility of the contractor.

BONDING

The contractor shall furnish a bond in the amount of one thousand dollars (\$1,000.00) in favor of the Indian Hill Water Works as a guarantee for each project. The bond shall not be released until all construction is inspected and approved, all fees are paid in full, and the Indian Hill Water Works is in receipt of all as-built drawings in hard copy and electronic file format as required by the Water Works Superintendent.

SIZE

Main sizes shall be determined by a competent, registered professional engineer using the Hazen-Williams formula with "C" equal to one hundred and twenty (120) and maximum velocity of ten (10) feet per second. Mains shall be sized for the maximum day rate of flow or the average day rate of flow plus fire flow, whichever is greater. Maximum day rate of flow shall be two-and-one-half (2.5) times the average day rate of flow. In all computations for average day rate of flow consideration must be given for lawn and garden irrigation in addition to any special requirements of the subdivision under consideration.



VILLAGE OF INDIAN HILL
DEPARTMENT OF WATER WORKS

APPROVED *J. Q.*
DATE November 2011

DESIGN CRITERIA FOR
WATER MAIN
AND APPURTENANCES

DRAWING NO.
WW-101