

UNIDIRECTIONAL FLUSHING PROGRAM

Owner: Water Division, Department of Public Works
Middleborough, MA

Contact: Richard D. Tinkham, Superintendent

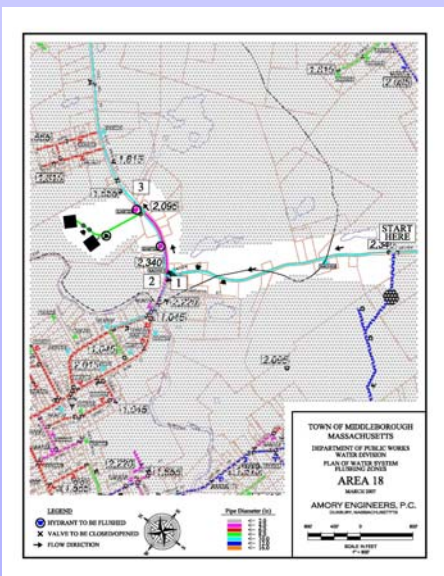
Telephone: (508)-946-2482

Key Personnel: Richard S. Johnson, P.E.

PROJECT DESCRIPTION

The unidirectional flushing program of the Middleborough water system includes a comprehensive flushing program for about 115 miles of unlined and lined water mains 4-in. to 12-in. size, with eleven well supplies and two storage facilities.

The work included development of the program utilizing unidirectional methods, preparation of individual flushing zone maps indicating mains to be flushed, flow direction, valve closure (s) and a flow tabulation spreadsheet for quantifying amount of water used for flushing. The program has improved water quality, reduced customer complaints and lead to improved system operation.



HYDRAULIC MODEL/FLUSHING PROGRAM

Owner: Water and Sewer Division
Department of Public Works
Wellesley, MA

Contact: Joseph Duggan, Superintendent
P.O. Box 364
Wellesley, MA 02481-0364

Telephone: 781-235-7600 ext. 350

Key Personnel: Richard S. Johnson, P.E.
Patrick G. Brennan, P.E.

PROJECT DESCRIPTION

Our work for Wellesley included the development of a computer model of the distribution system including all distribution mains; three water treatment plants, and four storage facilities. The model consisted of 1,820 pipes and 1,485 junction nodes. The project resulted in the development of a prioritized distribution system improvement program, modification to four storage facilities to improve water circulation, and development of a unidirectional flushing program.

