

WATER MAIN TESTING AND DISINFECTION NOTES:

- 1) WATER FOR TESTING AND FLUSHING SHALL BE OBTAINED FROM EXISTING WATER SYSTEM. ARRANGEMENTS SHALL BE MADE WITH THE WATER SYSTEM OPERATOR FOR PAYMENT OF WATER USED.
- 2) FLUSH MAINS AND SERVICES BEFORE TESTING. MINIMUM FLUSHING VELOCITY SHALL BE 2.5 FEET PER SECOND.
- 3) BEFORE TESTING, SECTIONS ADJACENT TO THE TEST SECTION SHALL BE FILLED WITH WATER. THE CONTRACTOR SHALL FURNISH ALL WATER, EQUIPMENT, CONNECTIONS, PIPING, METERS, MEASURING DEVICES, PUMPS, AND TEMPORARY ENCLOSURES NECESSARY TO PERFORM THE REQUIRED TESTS. TESTING SHALL BE MADE ON SECTIONS OF WATER MAIN NOT TO EXCEED 2000 FEET IN LENGTH.
- 4) TESTING SHALL MEET THE MINIMUM REQUIREMENTS OF AWWA C-600 SECTION 4, EXCEPT WHERE MORE RIGID REQUIREMENTS ARE ESTABLISHED BY THESE SPECIFICATIONS. BEFORE APPLYING TEST PRESSURE, ALL AIR SHALL BE EXPELLED FROM THE PIPE. AFTER THE PIPE HAS BEEN FILLED, IT SHALL BE SUBJECT TO HYDROSTATIC PRESSURE OF 50 PSI ABOVE NORMAL LINE PRESSURE OR A MINIMUM OF 150 PSI FOR A PERIOD OF TWO HOURS.
- 5) A PRELIMINARY TEST OF 50 PSI ABOVE NORMAL LINE PRESSURE OR A MINIMUM OF 150 PSI SHALL BE PERFORMED BY THE CONTRACTOR. AFTER THE PRELIMINARY TEST IS SATISFACTORY, THE WATER SYSTEM OPERATOR SHALL BE GIVEN 24 HOURS NOTICE AND A FINAL TEST PERFORMED.
- 6) LEAKAGE SHALL BE DETERMINED AT 30 MINUTE INTERVALS BY MEANS OF VOLUMETRIC MEASUREMENT OF THE WATER ADDED DURING THE TEST.
- 7) TEST PRESSURE SHALL BE BASED ON THE ELEVATION OF THE LOWEST POINT UNDER TEST. PRESSURE SHALL BE APPLIED BY A PUMP CONNECTED TO THE PIPE. THE PUMP, PIPE, CONNECTIONS, GAUGES, AND MEASURING DEVICES SHALL BE CALIBRATED TO THE SATISFACTION OF THE ENGINEER.
- 8) LEAKAGE SHALL BE DEFINED AS THE QUANTITY OF WATER SUPPLIED TO THE SECTION OF THE PIPE UNDER TEST NECESSARY TO MAINTAIN THE REQUIRED PRESSURE. SHOULD ANY TEST DISCLOSE LEAKAGE GREATER THAN THE ALLOWABLE, THE DEFECT SHALL BE LOCATED AND REPAIRED BY THE CONTRACTOR.
- 9) ALL WATER MAINS AND APPURTENANCES SHALL BE DISINFECTED IN ACCORDANCE WITH AWWA C 651 DISINFECTING WATER MAINS, AND THE REQUIREMENTS OF NYS DEPARTMENT OF HEALTH, USING THE CONTINUOUS FEED METHOD. THE REQUIREMENTS OF NYS DEPARTMENT OF HEALTH SHALL GOVERN WHEN THERE IS A CONFLICT. USE 50 PPM INITIAL CHLORINE DOSE. DISINFECTANT SHALL REMAIN IN THE SYSTEM FOR A PERIOD OF 24 HOURS AFTER WHICH THE RESIDUAL SHALL BE AT LEAST 25 PPM. FOLLOWING DISINFECTION, ALL TREATED WATER SHALL BE NEUTRALIZED AND THOROUGHLY FLUSHED FROM THE MAIN.
- 10) MUST HAVE A CHLORINE RESIDUAL NOT EXCEEDING 0.05 mg/l AT THE POINT OF DISCHARGE, CONTRACTOR IS RESPONSIBLE TO ATTAIN THIS CHLORINE RESIDUAL LEVEL BY WHATEVER MEANS NECESSARY.
- 11) THE INTERIORS OF ALL APPURTENANCES AND SECTIONS OF WATER MAIN THAT CANNOT NORMALLY BE DISINFECTED SHALL BE SWABBED BY THE CONTRACTOR, TO THE SATISFACTION OF THE WATER SYSTEM OPERATOR, WITH A CONCENTRATED CHLORINE SOLUTION CONTAINING NO LESS THAN 200 PPM OF FREE CHLORINE. THE CONTRACTOR SHALL ALSO DISINFECT ALL EXISTING WATER LINES AND APPURTENANCES WHICH WERE BROKEN, DAMAGED, CONTAMINATED, OR SUSPECTED OF BEING CONTAMINATED AS A RESULT OF WORK DONE WITH THIS PROJECT.
- 12) WATER SAMPLES SHALL BE COLLECTED BY THE GENESEE COUNTY HEALTH DEPARTMENT AND ANALYZED FOR BACTERIOLOGICAL CONTENT. A MINIMUM OF ONE SAMPLE PER 1000 FEET OF NEW WATER MAIN AND ONE FOR EACH SIDE STREET SHALL BE COLLECTED AND ANALYZED. LOCATION OF SAMPLING TAP MUST BE APPROVED BY THE WATER SYSTEM OPERATOR AND GENESEE COUNTY HEALTH DEPARTMENT. TWO CONSECUTIVE SAMPLES SHALL BE TAKEN AND ANALYZED AT THE CONTRACTOR'S EXPENSE.
- 13) THE DEVELOPER'S DESIGN ENGINEER IS RESPONSIBLE FOR CERTIFYING TO THE WATER SYSTEM OPERATOR AND THE DEPARTMENT OF HEALTH THAT THE WATER MAIN WAS INSTALLED IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS AND THAT THE FLUSHING, TESTING, AND DISINFECTION WAS PERFORMED IN ACCORDANCE WITH THESE REQUIREMENTS. THE DESIGN ENGINEER SHALL SUBMIT THIS CERTIFICATION ALONG WITH THE PRESSURE TEST AND BACTERIOLOGICAL TESTING RESULTS TO THE WATER SYSTEM OPERATOR AND THE GENESEE COUNTY HEALTH DEPARTMENT. THE WATER MAIN CANNOT BE PLACED IN SERVICE UNTIL AN APPROVAL OF COMPLETED WORKS IS RECEIVED FROM THE GENESEE COUNTY HEALTH DEPARTMENT.
- 14) ALL FIRE HYDRANTS SHALL BE "BAGED" AS BEING OUT OF SERVICE UNTIL THE WATER MAIN IS ACCEPTED BY THE TOWN OF BATAVIA, AT WHICH TIME THE OUT OF SERVICE BAG SHALL BE REMOVED AND THE HYDRANT PUT IN SERVICE.

MARCH 2010

REVISIONS		TOWN OF BATAVIA
DATE	COMMENTS	WATER DETAILS
		WATER MAIN TESTING AND DISINFECTION NOTES
		DRAWING W-20