

HYDROSTATIC PRESSURE TESTING

THE CONTRACTOR SHALL UTILIZE A LICENSED INDEPENDENT SUBCONTRACTOR TO CONDUCT THE REQUIRED HYDROSTATIC TESTING OF NEWLY LAID PIPELINES. THE SUBCONTRACTOR MUST BRING HIS OWN CALIBRATED EQUIPMENT WITH PROOF OF CALIBRATION. HYDROSTATIC TESTING SHALL CONFORM TO THIS STANDARD SET FORTH BY THE CITY OF WESTMINSTER WATER DIVISION. AFTER COMPLETION OF THE HYDROSTATIC TESTING, THE SUBCONTRACTOR SHALL PROVIDE A SIGNED COPY OF ALL TEST RESULTS TO WESTMINSTER WATER DIVISION. THE CONTRACTOR AND CITY WATER DIVISION REPRESENTATIVE SHALL BE PRESENT DURING THE TESTING.

PREPARATION FOR HYDROSTATIC TEST

ALL CONCRETE ANCHOR AND THRUST BLOCKS ASSOCIATED WITH SECTIONS OF THE PIPELINE TO BE TESTED SHALL HAVE CURED FOR A MINIMUM TIME OF 72 HOURS PRIOR TO ANY FLUSHING OR PRESSURIZING OF THE PIPELINE. RESTRAINED JOINTS OR OTHER METHODS OF PIPE SUPPORT MAY BE USED TO REDUCE THIS TIME IF APPROVED BY THE CITY WATER DIVISION REPRESENTATIVE. IF HYDROSTATIC TESTS PRECEDE DISINFECTING, AND THE TABLET METHOD OF DISINFECTING IS NOT USED, THE CONTRACTOR SHALL FLUSH THE PIPELINE WITH POTABLE WATER TO REMOVE DIRT AND DEBRIS.

THE AMOUNT OF PIPELINE TO BE TESTED AT ONE TIME SHALL BE DETERMINED BY THE CITY WATER DIVISION REPRESENTATIVE AND SHALL NOT EXCEED 1,200 FEET IN LENGTH. TEST PLATES (BULKHEADS), CORPORATION STOPS, AND OTHER TEMPORARY FACILITIES REQUIRED FOR TESTING PURPOSES SHALL BE INSTALLED AT THE CONTRACTOR'S EXPENSE. TESTING AGAINST VALVES IS NOT PERMITTED.

PROCEDURES FOR HYDROSTATIC TESTING

EACH SECTION OF PIPELINE AND ALL FIRE HYDRANTS, SERVICES, AND APPURTENANCES CONNECTED THERETO, SHALL BE SUBJECTED TO THE HYDROSTATIC TEST. THE PIPELINES SHALL BE FILLED WITH POTABLE WATER. CARE SHALL BE EXERCISED TO SEE THAT PROVISIONS ARE MADE FOR THE ESCAPE OF AIR AT HIGH POINTS AND ENDS OF LATERALS.

DURING PIPE FILLING, ALL VISIBLE PIPES, FITTINGS AND JOINTS SHALL BE INSPECTED FOR LEAKAGE. AFTER THE ENTIRE SECTION UNDER TEST HAS BEEN INSPECTED AND NO LEAKS FOUND, THE TEST PRESSURE SHALL BE SET AT 140 PSI.

ONCE THE TEST PRESSURE HAS BEEN STABILIZED, THE LEAKAGE TEST MAY BEGIN. FOR THE TWO-HOUR TEST PERIOD AFTER PRESSURE STABILIZATION, ANY LOSS GREATER THAN 3 PSI WILL BE CONSIDERED NOT PASSING. THE CONTRACTOR SHALL DETERMINE THE POINTS OF LEAKAGE AND MAKE THE NECESSARY REPAIRS AT NO COST TO CITY.

THE CONTRACTOR WILL THEN CONDUCT ANOTHER HYDROSTATIC TEST. THIS PROCEDURE SHALL BE CONTINUED UNTIL THE PRESSURE IS MAINTAINED FOR 2 HOURS WITH NO MORE THAN A 3 PSI DROP.

AFTER SATISFACTORY HYDROSTATIC TEST

ALL VALVES SHALL BE TESTED FOR LEAK PROOF TIGHTNESS AFTER THE PIPELINE HYDROSTATIC TEST WITH THE TEST PRESSURE ON ONE SIDE OF THE VALVE AND ATMOSPHERIC PRESSURE ON THE OTHER SIDE.

AFTER TEST SECTIONS HAVE SUCCESSFULLY MET THE HYDROSTATIC TEST REQUIREMENTS TO THE SATISFACTION OF THE CITY WATER DIVISION REPRESENTATIVE, THE ENTIRE PIPELINE OR EACH TEST SECTION SHALL BE FILLED OR SHALL REMAIN FILLED WITH POTABLE WATER UNTIL THE PIPELINE IS DISINFECTED. TEST PLATES, CORPORATION STOPS, AND OTHER TEST FACILITIES SHALL REMAIN IN PLACE IF NEEDED FOR DISINFECTING OR REMOVED AS DIRECTED BY THE CITY WATER DIVISION REPRESENTATIVE.