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## CONSTRUCTION SEQUENCE FOR LARGE SERVICES AND WATER MAINS

STEP	DESCRIPTION
1.	Contractor obtains a copy of the Southington Water Dept. specification from the Engineering Technician.
2.	Contractor <b>must</b> sign that he received Southington Water Department Specifications.
3.	Contractor speaks with Engineering Technician to schedule a preconstruction meeting and inspection of project's material delivery and installation.
4.	Contractor and SWD personnel meet at a predetermined site for the preconstruction meeting. Contractor signs that he <b>understands</b> Southington Water Dept. Specifications.
5.	Contractor establishes stations, offset stakes and for center-line of pipe every 50 feet.
6.	A SWD pipe-line Inspector must be present during all pipe laying, flushing, testing and anything pertaining to the water main installation.
7.	All taps are made by SWD personnel <b>only</b> . Southington Water Dept. requires up to one week lead time for scheduling of large taps.
8.	If required the Water Dept. personnel will top tap any existing stubs to relieve pressure. This is paid for by the contractor. See note
9.	Contractor installs gate valves on existing pipe stubs to pressure test against. In some cases this is optional for contractor and must be agreed upon by the Southington Water Department. (All gate valves must be disinfected before installing for this test.)
10.	Contractor installs all pipe, bends, tees etc. per SWD Water Main Specifications and details.
11.	SWD personnel tap the water main for all pressure test/ chlorination injection and discharge points. These are paid by the contractor and <b>may</b> be used later if approved by SWD as service connections. See Note.
12.	Water Dept. personnel top tap water main for any required wedge air release valves at high points. This is paid for by contractor. See note.
13.	The pipe is filled with water by Water Dept. personnel. <b>No contractor is to operate any Southington Water valves.</b>
14.	If a new valve is installed at the beginning of a new or existing water main installation than pressure testing of the main may be done before the chlorination process. It still must be approved by the Southington Water Department.
15.	Contractor disinfects the pipe using the continuous feed method for chlorine with all valves being

operated by Water Dept. personnel.

16. Two sets of samples will be taken by the contractor and witnessed by the SWD personnel at least 16 hours apart. At least one set of samples shall be collected from every 1200ft. of pipe, plus one set from each branch of water main. Fire hydrants may be used if a device is attached to the nozzle and is approved by the Southington Water Dept. All samples will require a standard heterotrophic plate count test along with the absent / present total coliform test. **All samples must be absent of total coliform organism and under 500 colonies in the heterotrophic plate count to pass.** Sample must be submitted to a State approved Laboratory at the contractor's expense.
17. Contractor must submit the results to the SWD before a pressure test can be started. **See step number 13.**
18. Once the SWD Engineering Tech receives conformation of passed Bacteriological tests, the pressure testing of the water main may start. **See step number 13.**
19. Contractor pressure tests pipe for 2 hours at 200 psi. Pipe leakage must not exceed leakage allowance. **SWD personnel must witness the test.**
20. After contractor submits passed Bacteria and Pressure test results to the Southington Water Department the water pipe will then be turn into the Southington Water system by Water Dept. personnel.
21. SWD personnel can now do all taps into the new water main. These taps are paid by the contractor. See Note

**NOTE :**

**The Construction Sequences must follow all Southington Water Department Specifications. Any changes to the installation of the water main must have written permission from the Southington Water Department who say shall be final. The contractor is responsible for following all excavation standards of O.S.H.A. Standards 1926.650 to 1926.652. Trench boxes must be supplied by the contractor for all taps. Also the contractor must supply a safe and well maintained ladder. This ladder must be secured and extend 36 inches above the landing.**

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