

After the test is completed, the Contractor shall drain the main and take all precautions necessary to prevent freezing in cold weather.

The Contractor shall furnish all labor and shall furnish all the materials and appliances, satisfactory to the Engineer, necessary to perform these tests.

(d) Backfilling. All backfill material shall be free from cinders, ashes, refuse, vegetable or other organic material, boulders, rock or stones, or other material which in the opinion of the Engineer is unsuitable. However, from one foot above the top of the pipe to two feet below the finished grade, material containing stones up to 8 inches in their greatest dimension may be used, unless otherwise directed by the Engineer. Material for backfilling around the elbows of fire hydrants and to a level of 6 inches above their waste openings shall be gravel, stone or slag, meeting the grading requirements of No. 46, No. 6, or No. 6a size coarse aggregate.

The backfilling material shall be deposited in the trench for its full width in 4-inch layers maximum loose depth. Each layer shall be compacted as herein-after described, the compaction obtained being not less than 95 per cent of maximum laboratory dry weight.

From the bottom of the trench to the centerline of the pipe, fittings or appurtenances, the backfilling material shall be placed by hand and compacted by approved hand tamps. This portion of the backfill shall be completed previous to any hydrostatic testing.

From the centerline of the pipe, fittings or appurtenances to a height of one foot above the pipe, the backfill shall be placed by hand and compacted by use of approved mechanical tampers. The Contractor shall use special care in placing this portion of the backfill so as to avoid injuring or moving the pipe.

The remainder of the backfill in the trench shall be placed by hand or mechanical means and compacted by approved mechanical tampers.

Backfilling shall not be done in freezing weather except by permission of the Engineer, and it shall not be made with frozen material. No backfill shall be made where the material already in the trench is frozen.

(e) Disinfection. The requirements for disinfection during construction and previous to placing the line in service shall be in compliance with the requirements of the State of Ohio Department of Health and the political subdivision concerned. The Contractor shall furnish all the equipment and materials required for disinfection.

I-124.04 Water Main Removed and Relaid. This item shall consist of removing an existing water main including fittings, valves and boxes and relaying to the line and grade shown on the Plans.