



The forms are of steel, held by cast iron top and bottom rings, which insure great accuracy and smoothness of finish.

Manufacturing yard of the Canada Lock Joint Pipe Ltd., at St. John, N.B.—W. G. Chace, M.E.I.C., President.

Laying 48-inch Lock-Joint Concrete Pipe.

REINFORCED CONCRETE FOR PRESSURE PIPE

In St. John, N.B. (the first Canadian city to be incorporated), 4½ miles of 36-inch Concrete Pipe was laid in 1855. This pipe stood so well the test of its 66 years' constant use, that when the civic authorities faced the necessity of a new water pressure system, Concrete was the material of their choice.

The first requisite of a Concrete Pipe intended to carry water under pressure without leakage, is of course, impermeability in the comparatively thin walls of concrete.

This is secured by proper proportioning of the aggregates and care in mixing and handling.

The reinforcement consists of cages of bars or mesh, or a combination of both.

By means of specially designed expansion joints the individual lengths, pre-cast as shown in the illustrations, are made to form a conduit of any length with a flexible yet completely water-tight joint between each unit.

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