



**CANADA CEMENT
CONCRETE
FOR PERMANENCE**

Concrete Pipe for St. John's Water Supply

The new 4-mile Conduit, conveying water from Spruce Lake to West St. John, has a 4-inch wall. It is of Concrete reinforced with steel bars, on triangular wire mesh. Moulded into each of its 12-foot lengths, at one end, is a cast-iron machined bell ring; and at the other end a cast-iron machined spigot ring.

Within the bell casting, is cut a wedge-shaped groove $\frac{3}{4}$ inch wide. The surface of the spigot ring is finished conically for part of its length and cylindrically for the remainder or working portion. The joint between spigot and bell is made water-tight by means of an elastic lead-pipe gasket; the taper end of the spigot wedging the gasket radically into its seat, so that it ultimately rides upon the cylindrical surface of the spigot.

This method makes a true expansion joint; its water-tightness not affected by changes in the temperature of the flowing water, which will cause changes in the gross length of the pipe line.

The use of Reinforced Concrete for this new Conduit, was decided upon as a result of satisfactory experience with a Concrete main laid in 1859 and which has given service continuously since that date.

The work was carried out by the Council of the City of St. John, operating through its Commissioner of Water and Sewerage, J. B. Jones, and its City Engineer, G. G. Hare. The Contractors were Canada Lock Joint Pipe Limited, Toronto, W. G. Chace, M.E.I.C., President.

*SPECIFY
CANADA CEMENT
Uniformly Reliable*

We maintain a Service Department to co-operate in all lines of work for which Concrete is adapted. Our library is comprehensive and is at your disposal at all times without charge.

Canada Cement Company Limited

Canada Cement Company Building Phillips Square

MONTREAL

Sales Offices at:— Montreal Toronto Winnipeg Calgary