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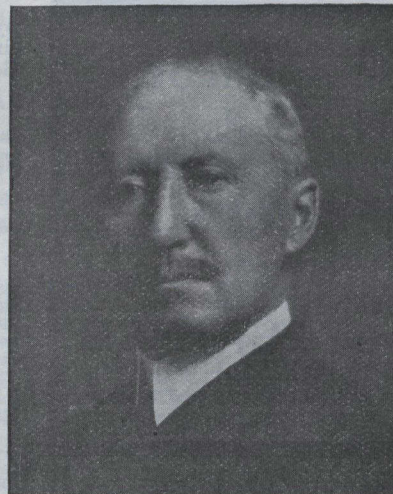
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Engineers—And



LT. COL. HENRY NORLAND RUTTAN, C.E.,
City Engineer, Winnipeg, Man.

The City Engineer of Winnipeg, Man., Col. Ruttan, occupies a very high position in the profession, not merely because of his long service in the city of Winnipeg, but because of his painstaking study of municipal engineering questions, and his wide acquaintance with them.

Col. Ruttan was born in Cobourg, Ont., in 1848, and was educated at the Cobourg and Cornwall Grammar Schools. His first experience in the work of his profession was in 1867 on the Engineering staff of the Grand Trunk Railway under the late Mr. E. P. Hannaford. From 1869 to 1877, he was on the staff of the Intercolonial and Canadian Pacific Railways under the dean of the profession, Sir Sandford Fleming, C.M. M.G.

In 1877, he saw the other side of railway engineering in the service of Mr. Joseph Whitehead, who, as contractor, built the C. P. Ry. from Winnipeg to Kenora.

In 1880, he took up private practice in Winnipeg as an Engineer and Contractor, and between that date, and 1885, built the first bridge over the Red River, a pile bridge at Winnipeg, and a swing road bridge at Emerson. He also built the first Osborne St. bridge over the Assiniboine River. But while thus engaged in private practice and business, Col. Ruttan made a special study of municipal Engineering problems in the principal cities of the United States, particularly with regard to pavements, sewers and water works.

It was due to this study of municipal questions that made the City Council of Winnipeg appoint him City Engineer in 1885, and his services have proved so valuable that the Council today is unwilling to allow him to retire from a position in which he has done such good work. For, in addition to the ordinary duties of the City Engineer of a rapidly growing city, Col. Ruttan organized a Construction Department, which is now being carried on under the Board of Control.

One branch of this Department was a Municipal Asphalt Plant, in 1899, which was the first in America. Since its inception, all asphalt pavements have been laid by the City, while, in addition to the pavements,