

MUNICIPAL ENGINEERS, CONTRACTORS AND MATERIALS

**WILLIS CHIPMAN**

Hon. Grad. McGill University.  
M. Can. Soc. C.E. M. Am. Soc. C.E.  
Mem. Am. W.W. Ass'n.  
**WATERWORKS, SEWERAGE WORKS, GAS  
WORKS, ELECTRIC LIGHT AND  
POWER PLANTS**  
Reports, Surveys, Construction, Valuations  
**103 BAY STREET - TORONTO**

**R. E. SPEAKMAN, C.E.**

A. M. Inst. C. E., 1878.

**CONSULTING ENGINEER**

Waterworks, Sewerage and Sewage Disposal.  
Municipal Improvements.  
Granolithic Pavements.  
Electric Light Plants.  
Drainage and Irrigation of Land.  
Coal Handling Plant and Machinery.  
Plans, Specifications and Estimates.  
Construction and Valuations.

Canada Life Building - TORONTO

**E. VON DER OSTEN & CO.,**

Consulting Engineers

Industrial Plants, Waterworks.  
Lighting and Power Plants  
Sewerage and Sewage Disposal  
Garbage Reduction Plants  
Municipal Improvements

Roncesvalles Ave. & High Park Road,  
TORONTO, ONT.

Cable: Ackcoll

**J. J. COLLINS**

B.A.S., C.E., M.E., E.E.

Consulting Engineer

Ottawa, Ont., Canada

**RODERICK J. PARKE**

A.M. Can. Soc. C.E. A.M. Amer. Inst. E.E.

**CONSULTING ELECTRICAL ENGINEER.**

Electrical Light and Power.  
Steam Plants, Gas Power Plants, Water  
Power Plants  
Estimates, Tests, Reports, Valuations.  
82-53 James Building - TORONTO, CAN.  
Long Distance Telephones-Office and Residence  
Cable Address "Rodparke" (W. U. Code.)

**John H. Jackson**

CIVIL ENGINEER

WATER POWER, ELECTRIC RAIL-  
WAYS, STRUCTURAL STEEL.  
Niagara Falls, Canada  
Associated with Charles H. Mitchell,  
C. E., Hydraulic Engineer.

**CECIL B. SMITH, M.A.E.**

M. Can. Soc. C.E.

**Constructing and Consulting Engineer**

Hydraulic Power Plants, Municipal, Railway,  
and general Civil Engineering Work.  
Plans, Estimates, Specifications, Reports,  
Cement, Concrete, and Steel Concrete

**CEMENT TESTING LABORATORY**

Rates for testing on application.

36 Toronto Street, Toronto.

Established 1878

**The Hanover Portland Cement Co., L'td.**

Hanover, Ontario

Manufacturers of the Celebrated

"SAUGEEN" Brand of PORTLAND CEMENT

Prices on application

Please mention this paper when cor-  
responding with advertisers.

**MANGANESE**

Anti-Friction Metal

The Sabbit Metal that  
has become famous.

Syracuse Smelting Works, Montreal.

**THE ONTARIO ASPHALT BLOCK CO., L'T'D.**

MANUFACTURERS OF

**ASPHALT BLOCK PAVING**

Information and samples furnished municipalities on application.

Main Office: WINDSOR, ONT.

Works: WALKERVILLE, ONT.

**THE CANADIAN SEWER PIPE CO.**

MANUFACTURERS OF



FOR

**Sewers, Culverts and Water Pipes**

Inverts for Brick Sewers

WRITE FOR DISCOUNTS

ST JOHNS, P.Q.

HAMILTON, ONT.

TORONTO, ONT

**ALSEN'S, 45 Broadway, NEW YORK**

**THE OFFICIAL PRACTICAL  
TEST OF CONCRETE VAULT  
LIGHT CONSTRUCTION**

UNDER THE PERSONAL DIRECTION  
OF

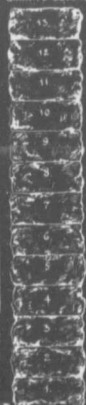
WM. BARCLAY PARSONS, C.E., M.Am. Soc. C.E.  
CHIEF ENGINEER R. T. COMMISSION

AND

S. L. F. DEYO, C.E., M.Am. Soc. C.E.  
CHIEF ENG. R. T. SUBWAY CONSTRUCTION CO.

ALSEN'S HAS BEEN SELECTED IN PREFERENCE  
TO ALL OTHER BRANDS, FOR THE SUBWAY  
RAPID TRANSIT STA-  
TIONS OF THE ENTIRE  
SYSTEM, REACHING  
FROM THE BATTERY  
TO THE BRONX.

GRANITE BLOCKS



MERELY SUSPENDED BETWEEN I-BEAMS  
A SLAB OF

**ALSEN CONCRETE**

2 INCHES THICK  
5 FEET WIDE  
12 1-2 FEET LONG

30 DAYS OLD

SUSTAINED 11,882 POUNDS OF  
CONCENTRATED WEIGHT

ON AN IRON DISC 8 1-2 IN. IN DIAMETER

THOUGH HIGHEST IN PRICE, ALSEN'S IS BEING  
USED IN THIS VERY IMPORTANT CONSTRUCTION,  
NOT ONLY BECAUSE OF ITS  
GREATER STRENGTH, BUT

CHIEFLY BECAUSE OF ITS  
ABSOLUTE SAFETY  
IN ACTUAL WORK.

MADE BY TUCKER & VINTON, INC., NEW YORK CITY  
PATENTS