

61149

PROPERTY OF

PUBLISHED WEEKLY

ESTABLISHED 1893

THE ST. LAWRENCE SEAWAY AUTHORITY

LIBRARY Canadian Engineer

SUBSCRIPTION RATE—\$3 a year; \$1.75 six months; \$1 three months; postpaid anywhere.

Issued in the interests of Canadian Civil Engineers & Contractors

This field includes chiefly the men who are engaged in municipal, railroad, hydraulic, structural, highway and consulting engineering surveying; mine-management; contracting; and waterworks superintendence.

Toronto, July 5, 1917.

CONTENTS

Vol. 33—No. 1.

Bascule Bridge Across Cataraqui River . . . 1

ILLUSTRATED.—Details of construction and method of operation of 160 ft. span bascule bridge at Kingston, Ont. Precautionary means taken to ensure that counterweight would exactly balance the moving leaf. How weight adjustment was determined. BY R. K. PALMER, Chief Engineer, Hamilton Bridge Works Co.

The Canadian Engineer, July 5, 1917 7 cols.

Winnipeg and Port Arthur Are Natural Junction Points 5

If minority report of Railway Enquiry Commission be adopted, North Bay is not the natural junction for G.T.R. and C.N.R. Review of the railway situation and of the various "solutions." BY JAS. H. KENNEDY, M.Can.Soc.C.E.

The Canadian Engineer, July 5, 1917 4½ cols.

Another Engineer Receives Appointment to High Diplomatic Position 7

Boris Bakhmeteff, M.Can.Soc.C.E., appointed Russian Ambassador to United States to co-operate with diplomatic mission.

The Canadian Engineer, July 5, 1917. 1 col.

Reinforced Concrete Ships 8

National Portland Cement Association suggests that ship construction could be accelerated by using concrete.

The Canadian Engineer, July 5, 1917 1¼ cols.

Canada's Railroad Problem 9

An economic viewpoint. Suggested consolidation of all roads, excepting the Canadian Pacific, by means of a holding company. BY W. T. JACKMAN, M.A., Department Political Science, University of Toronto.

The Canadian Engineer, July 5, 1917 5 cols.

The Application of Coagulant Intermittently in Excess Amounts 11

ILLUSTRATED.—Abstract of paper read before the New England Water Works Association. BY ELBERT E. LOCHRIDGE, Chief Engineer, Springfield Waterworks.

The Canadian Engineer, July 5, 1917 3½ cols.

Modern Roadmaking Machinery; Its Selection, Use and Care 13

Careful study of conditions must be made before purchasing. Efficiency the guiding principle in use. Care during idleness very important. BY W. HUBER, A.M.Can.Soc.C.E.

The Canadian Engineer, July 5, 1917 4 cols.

Building a 2,000,000-gallon Reinforced Concrete Tank 15

ILLUSTRATED.—Reservoir for an Alabama waterworks. Description of foundation, wall forms, reinforcement, etc. No forms shifted or used twice.

The Canadian Engineer, July 5, 1917 4 cols.

Letter to the Editor 17

Municipal Consulting Engineers.

Editorials 19

After the War.
Handling Construction Materials.
Reconstruction and the Engineer.

Personals 20

Obituaries 44

Coast to Coast 44

Construction News 46

Where to Buy 60

Index to Advertisements 66

Published every Thursday by THE MONETARY TIMES PRINTING CO. OF CANADA, LIMITED

HEAD OFFICE: CORNER CHURCH AND COURT STREETS, TORONTO, CANADA

JAMES JOHNSTON SALMOND, *Man. Director.* ALBERT EDWARD JENNINGS, *Business Mgr.*

Telephone Main 7404, Branch Exchange connecting all departments.

Cable Address: "Engineer, Toronto"

WESTERN CANADA OFFICE: 1208 McArthur Building, Winnipeg. G. W. GODDALL, *Western Manager*

LIBRARY
Department of Transport
OTTAWA, CANADA.

6219