

# CANADIAN Contract Record

*A Weekly Journal of Public Works, Tenders,  
Advance Information and Municipal Progress*

This Paper Reaches Every Week the Town and City Clerks, Town and City Engineers, County Clerks and County Engineers, Purchasers of Municipal Debentures and Leading Contractors in All Lines Throughout Canada

VOL. 17.

TORONTO, MONTREAL — JULY 4, 1906 — WINNIPEG, VANCOUVER

No. 18

## THE CANADIAN CONTRACT RECORD

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should give prompt notice of same. In doing so  
give both old and new address. Notify the pub-  
lishers of any irregularity in delivery of papers.

## Tenders Wanted

Tenders will be received, addressed to the  
Township Clerk, up to SATURDAY, JULY  
14th, 1906, for the "Cleaning Out and Improve-  
ment of the West Flamboro Drain," in the  
County of Wentworth.

Length of drain, about 24,000 lineal feet.  
Plans and specifications may be seen and forms  
of tender obtained from the office of the Clerk,  
or at the office of the township engineers, Messrs.  
Tyrrell & Mackay, Hamilton, Ont.

The lowest or any tender not necessarily  
accepted.

IRA N. BINKLEY,  
Township Clerk.

Box 42 Greensville, Ontario, June 18th, 1906.

## Debentures For Sale

City of Medicine Hat, Alberta

Sealed tenders will be received up to MON-  
DAY, AUGUST 10th, 1906, for the purchase of  
\$20,000 Waterworks, \$5,000 Natural Gas and  
\$10,000 Municipal Building Debentures of the  
City of Medicine Hat, dated August 1st, 1906,  
bearing interest at 5 per cent. per annum and  
repayable in 30 equal annual instalments of  
principal and interest. For further particulars  
apply to the undersigned. The highest or any  
tender not necessarily accepted.

W. N. ADSIT,  
Secretary-Treasurer.

## Sealed Tenders

addressed to M. W. Flannery, Town Clerk, will  
be received up to noon on SATURDAY, JULY  
14th, for the construction of about 40,000 square  
feet of artificial stone sidewalks in the Town  
of North Bay.

Plans and specifications to be seen at the  
office of the undersigned. A certified cheque  
payable to the treasurer for the sum of one  
hundred dollars (\$100.00) must accompany each  
tender, this to be returned when the successful  
tender enters into a contract with the Town.  
The lowest or any tender not necessarily  
accepted.

L. O. CKARKE, C. E.,  
Town Engineer,  
North Bay, Ont.

## Tenders Wanted

Sealed tenders, marked "Tender," addressed  
to the undersigned, will be received up to 7.30  
o'clock p. m. MONDAY, THE 5th DAY OF  
JULY, 1906, for the construction of a Heating  
and Ventilating Systems in the Arnprior Public  
Schools, together with the alterations and re-  
pairs to existing structures consequent to such  
system.

Plans and specifications of the proposed work  
may be seen at the office of J. J. Cranston, Sr.,  
M. D. Arnprior.

The lowest or any tender not necessarily  
accepted.

M. D. GRAHAM, Secretary,  
Arnprior Board of Education.

Arnprior, June 26th, 1906.

## PORT ELCIN WATER WORKS

Sealed tenders will be received by the Village  
Clerk until 8 p. m. on

TUESDAY, JULY 24TH, 1906,

for the construction of a system of Water Works  
for the Town of Port Elgin.

The works will be subdivided as follows:

Contract "A" Labor on Pipelaying, about 14,  
000 feet.  
Contract "B" Pump House.  
Contract "C" Water Tower and Foundation.  
Contract "D" Cast Iron Pipes and Specials.  
Contract "E" Fire Hydrants and Valves.  
Contract "G" Pumping Machinery.  
Contract "H" Boilers.  
Contract "I" Well and Gallery.

Plans and specifications may be seen at the  
Town Hall, Port Elgin, or at the office of the  
Chief Engineer, Toronto, on or after July 6th,  
1906.

D. GEDDES, Esq., R. MUNRO, Esq.,  
Reeve, Village Clerk,  
Port Elgin, Ont. Fort Elgin, Ont.  
WILLIS CHIPMAN, Esq., C. E.,  
103 Bay Street, Toronto, Ont.

## Georgian Bay and Seaboard Railway

## TENDERS

Tenders will be received by the undersigned  
up to noon on SATURDAY, JULY 7th, for the  
grading, bridging, fencing, track laying, ball-  
asting and other work required in connection  
with the construction of the above Railway  
from Victoria Harbor to a point connecting with  
the Canadian Pacific Railway between Peter-  
borough and Havelock.

Plans and specifications can be examined at  
the office of the Division Engineer of Construction,  
118 King Street West, Toronto.

The lowest or any tender not necessarily  
accepted.

J. W. LEONARD, President,  
Toronto, Ont.

Young English Draughtsman (23) desires appoint-  
ment, working and detail drawings. Please state  
salary. Draughtsman, care LAMB, 301 Queen  
Street, Toronto.

## RIVER AUX RAISIN BRIDGES

Sealed tenders, marked "Tenders for Bridge Sub-  
structures," will be received by John Mullin, Esq.,  
Clerk of Cornwall Township, Cornwall, Centre, Ont.,  
until 12 o'clock, noon, of MONDAY, JULY 16th,  
next, for making the necessary excavation for piers,  
grading approaches, rip rapping same, construction  
of wing fences and building four reinforced con-  
crete and four ordinary concrete piers for the follow-  
ing bridges to cross the River Aux Raisin in the  
Township of Cornwall:

Moulinette Road Bridge, between Lots 30 and 31.  
Mile Rochas Road Bridge, between Lots 24 and 25.  
McGillis Bridge, on forced road near the foot of  
McGillis Rapids.

St. Andrews Bridge, between Lots 12 and 13.  
Plans, specifications, etc., may be seen at the office  
of John Mullin, Esq., Township Clerk, or at the  
office of Magwood & Walker, Civil Engineers,  
Colquhoun Block, Cornwall.

(Signed) W. H. MAGWOOD,  
Civil Engineer in Charge.

Cornwall, June 20th, 1906.

## CITY OF MEDICINE HAT

## TENDERS

For the supplying of the following plant and  
materials will be received at the office of the  
Secretary Treasurer up to 4 p. m. JULY 18th, 1906.

### GAS SUPPLIES.

3,350 ft. of 3/4 inch black iron pipe; 8,350 ft. of  
4 inch pipe; 2,000 ft. of 2 inch pipe; One 2 1/2 inch  
off 4 inch 45° T; One 1 inch off 3 inch 45° T; Six  
4 inch off 4 inch 45° T's; Five 3 inch off 4 T's;  
Six 3/4 inch off 2 1/2 inch T's; Two 4 inch to 3 inch  
reducers; One 6 inch regulator with 3/4 inch in-  
let, 4 inch outlet and automatic cut off; Two 3/4  
inch brass globe valves; Three 4 inch iron globe  
valves.

### WATER SUPPLIES.

9,200 feet of 6 inch pipe tested to 120 lbs. pres-  
sure per square inch; 1,600 feet of 10 inch pipe  
tested to 120 lbs. pressure per square inch; Forty  
6 inch valves; Thirteen fire hydrants; 1,200 lbs.  
of lead; Twenty eight 6 inch T's; Four 6 inch  
45° T's; Three 1/2 bends 6 inch; Four 6 inch off 10  
inch crosses; One 10 inch 45° T; One 3/4 bend 10  
inch; One 6 inch cross; One reducer 10 inch to  
6 inch; Four 10 inch sleeves; Twelve 6 inch  
sleeves.

Tenders will be received for both wood and  
cast iron pipe and also for specials, hydrants  
and valves to suit, wood or iron pipe.

A circular stand pipe to contain 500,000 gal.  
about 70 ft. high erected complete upon founda-  
tion to be supplied by the city.

Two mechanical filters having a capacity of  
500,000 gal. each in 24 hours delivered F.O.B.  
cars here with the superintendence of erection.

Full description of plans and specifications of  
the Stand Pipe and Filters must accompany  
each tender.

All information required will be supplied by  
the City Engineer.

The lowest or any tender not necessarily  
accepted.

WM. F. MORRISON,

Medicine Hat, June 21st, 1906.

Sova & Barbour, plumbers have  
opened a business in Winnipeg.

[FOR ADDITIONAL ADVERTISEMENTS FOR TENDERS SEE NEXT PAGE.]

## TOWN OF OWEN SOUND DEBENTURES

Sealed tenders, addressed to the undersigned, will be received up to 3 o'clock p.m. on FRIDAY, JULY 20TH, 1906, for the following Debentures:

\$45,000—Twenty years, 4%, for Gas Plant;  
\$45,000—Twenty years, 4%, for Electric Light Plant;  
\$12,500—Twenty years, 4%, for Construction of Bridge;  
\$10,000—Ten years, 4%, for Collegiate Institute Building.

Tenders will be received for the whole or any part.

No tender necessarily accepted.

A. J. SPENCER,

Town Treasurer.

Owen Sound, June 14th, 1906.

## AUCTION SALE of Valuable Brick Yard and Plant at La Riviere

Under and by virtue of the powers contained in certain mortgages, which will be produced at the time of sale, there will be offered for sale by public auction on

**Friday, the Twentieth Day of  
July, A.D. 1906**

AT THE HOUR OF 3.30 O'CLOCK IN THE  
AFTERNOON

at the offices of the Pressed Brick and Tile Company, Limited, at  
**LA RIVIERE, IN THE PROVINCE OF  
MANITOBA,**

by MICHAEL CONWAY, Auctioneer, the following property, namely:

**THE WORKS OF THE PRESSED  
BRICK AND TILE COMPANY,  
LIMITED, AT LA RIVIERE,**

Aforesaid, being:

**FIRST:** The whole of Legal Subdivision Three (3) and the East Half of Legal Subdivision Six (6) of Section Thirty (30) in Township Three (3) in Range Nine (9) West of the Principle Meridian in Manitoba.

**SECOND:** in the Township of La Riviere in the Province of Manitoba and being composed of all that portion of Legal Subdivision Four (4) of Section Thirty (30) in Township Three (3) Range Nine (9) West of the Principle Meridian, described as follows: Commencing at a point on the Easterly Limit of said Legal Subdivision Four (4) distant two hundred and eighty-seven and two tenths (287.2) feet from the Northeast corner thereof; thence West sixty-one and eight-tenths (61.8) feet, said Easterly Limit of Legal Subdivision Four (4) being assumed due North; thence fifty-one degrees and fifteen minutes (51° 15' W) West to a point distant perpendicularly Southerly Sixty-six Feet from the Southerly Limit of "Station Grounds" as same are shown on a plan of subdivision of part of said Section and other lands registered in the Registry Office for the County of Rock Lake as No. 61; thence Southwesterly parallel with said Southerly limit of "Station Grounds" to a point distant perpendicularly Westerly three hundred (300) feet from the Easterly limit of legal subdivision Four (4) aforesaid; thence South parallel with said Easterly limit of legal subdivision Four (4) to the Southeast corner thereof; thence North along the Easterly limit of legal subdivision Four (4) to the place of beginning, containing eight and three-tenths acres, more or less, together with all buildings and erections thereon, and the Plant, Machinery, Tools, and Other Chattels of the Said Company. ]

The vendors are informed that the lands of the said Company comprise about Sixty (60) acres and include a very large supply of shale suitable for making buff and red pressed brick, and that there is a spur track on the said property leading from the Canadian Pacific Railway, and that there are the following buildings on the said property, namely: Frame engine and boiler room and extension, 1 large brick drier, frame engine and blower room, 9 circular brick kilns, 1 large dwelling house and 1 small dwelling house.

The premises of the said Company are situated close to the C. P. R. Station at La Riviere.

The vendors are informed that the machinery consists of: 1 Boyd Press, 1 Williams Pulverizer, 1 Jeffries Conveyor, 1 Screens (Dunlap Perfect), 1 Extra Set Plates, 1 Set Pine Screws, 1 Blower and Engine, 1 Compound Engine, 1 Boiler, 1 Fan, 1 Steam Pump and Heater, 1 Grinding Machine, 4 Emery Wheels, 1 Screw Press and Dies. The tools are said to form a complete complement requisite for the operation of machinery and brick yard. There is also said to be a stock of about twenty-five tons of coal on the premises.

The vendors are informed that all buildings, machinery and tools, etc., are comparatively new and in good condition.

The above property and chattels will be offered for sale en bloc, subject to a reserve bid.

**TERMS:** Twenty per cent. of the purchase money to be paid down at the time of sale, balance to be paid in thirty days.

For further particulars apply to

**NATIONAL TRUST COMPANY, Limited,**  
Winnipeg, Manitoba, Vendors,  
Or to **MESSES TUPPER, PHIPPEN, TUPPER,**  
**MINTY & McTAVISH,**  
Solicitors, Winnipeg, Solicitors for the Vendors.

Dated at Winnipeg this 26th day of June, A.D. 1906.

### CONTRACTS OPEN.

**VAGREVILLE, ALTA.**—A hospital is to be built here, cost \$6,000.

**ARDEN, MAN.**—Local capitalists will build a hotel to cost \$10,000.

**OKOTOKS, ALTA.**—The Methodist congregation have decided to build a new church.

**STEELTON, ONT.**—A by-law to install a system of waterworks has been carried.

**TREHERNE, SASK.**—A by-law has been carried to raise \$18,000 for school building.

**PARIS, ONT.**—Tenders are being called by F. Hurndall for erection of a dwelling.

**LONDON, ONT.**—The plans for Bennett's new theatre have been prepared.

**FORT ERIE, ONT.**—B. F. Matthews will erect a fine building on Niagara street.

**ROSTERN, SASK.**—A by-law will be voted on to raise \$3,000 to install fire protection.

**FERNIE, B.C.**—A by-law has been passed to raise \$5,500 for construction of sidewalks.

**MACLEOD, ALTA.**—Plans have been prepared for a residence for Mrs. R. Kenefic.

**VERNON, B.C.**—The by-law to have the waterworks system extended has been carried.

**OWEN SOUND, ONT.**—Wilcox's millinery store will be extensively enlarged this summer.

**CARBERRY, MAN.**—R. A. Garland has taken tenders for erection of an electric power house.

**CHESLEY, ONT.**—The Council is considering plans for the installation of a system of waterworks.

**EXETER, ONT.**—The Council will submit a by-law to loan \$10,000 to the new cannery company.

**INGERSOLL, ONT.**—A by-law to loan \$20,000 to T. Waterhouse & Company has been carried.

**NEW LISKEARD, ONT.**—A by-law to raise \$64,000 to install a water works system has been carried.

**OSHAWA, ONT.**—Tenders will soon be called for the replacing of Mill street

bridge with concrete abutments and steel span.

**ROACH'S POINT, ONT.**—The Dominion Parliament has granted \$3,200 for building a wharf here.

**DALHOUSIE, N.B.**—The Dominion Parliament have appropriated \$11,500 for harbor improvements.

**MISPEC, N.B.**—The Dominion Parliament have appropriated \$6,000 for extension to the breakwater.

**BEAMSVILLE, ONT.**—The rate-payers have decided to issue \$7,000 local improvement debentures.

**QU'APPELLE, SASK.**—The Presbyterian congregation are considering the erection of a new church.

**GUELPH, ONT.**—Mrs. Barker will build a two-storey dwelling corner of Liverpool and Arnold streets.

**GLACE BAY, N.S.**—The Mira Brick Company have decided to make extensive improvements in their plant.

**WALSH, ONT.**—N. G. Wilson will receive tenders up to July 10th for construction of an Agricultural building.

**SARNIA, ONT.**—The King Milling Company will receive tenders up to July 4th for brick addition to their saw mill.

**GRAND FALLS, N.B.**—The by-law to install a system of waterworks has been passed. Tenders will soon be called.

**CARDSTON, ALTA.**—The by-law to raise \$30,000 for construction of water works and electric light system has been carried.

**PEMBROKE, ONT.**—The Town Council gives notice of its intention to construct sidewalks on Esther and Agnes streets.

**FAIRVILLE, N.B.**—G. Murdoch, engineer, has prepared plans for a sewerage system for this village of about \$24,000.

**WELLAND, ONT.**—J. A. Harrick, architect, Philadelphia, has planned the new factory building for the Ontario Iron & Steel Co.

**HARRISTON, ONT.**—W. D. McLellan, Township Clerk, will receive tenders up to July 12th for \$1,000 school debentures.

**KELOWNA, B.C.**—R. Morrison, City Clerk, is asking for tenders for the purchase of \$5,000 5 per cent. municipal debentures.

**NANAIMO, B.C.**—The Hamilton Powder Company have purchased ninety acres of land to make room for an enlarged plant.

**FORT WILLIAM, ONT.**—Snelgrove & Waddington are preparing to erect a large three storey business block on Victoria avenue.

**NORTH TORONTO, ONT.**—Tenders will be invited for building sidewalks on London, Beresford, Earl, Glen Grove and Yonge streets.

**HARROW, ONT.**—Clark & Company have plans for their new brick block prepared, and tenders for its construction will soon be called.

**PARRY SOUND, ONT.**—T. H. Tully will build a residence on Gibson street.—J. A. Johnston is preparing to erect a new residence.

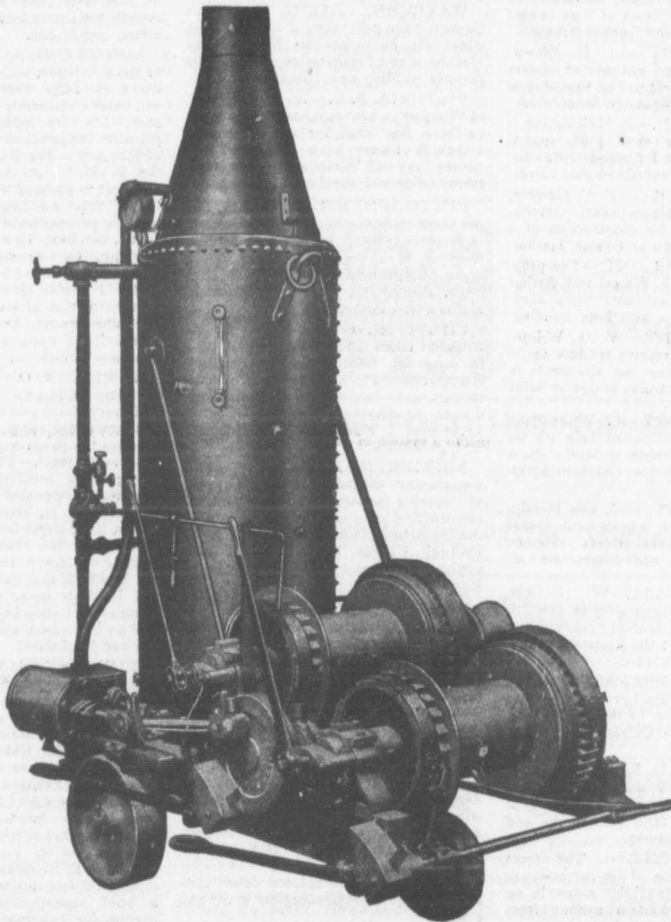
**CORNWALL, ONT.**—A by-law to grant \$20,000 to the Modern Bedstead Co., Sherbrooke, to establish a factory here, has been carried.

**PORT ELGIN, ONT.**—R. Munro, village clerk, will receive tenders up to July 24th for construction of system of waterworks for the town.

**BOUCK'S HILL, ONT.**—George Lane will receive tenders up to July 10th for \$802.82 4½ per cent. township of Williamsburg debentures.

# CONTRACTORS' HOISTS

Standard Outfits or Special Designs



Derrick Irons and Fittings  
Clam Shell and Orange Peel Buckets  
Concrete Buckets, Stone Skips,  
Wire Rope, Etc.

## W.H.C. MUSSEN & CO.

Railway, Mining and Contractors' Supplies  
MONTREAL

HALIFAX, N.S.—R. J. Wilson has taken tenders for alterations to Morris street school building, and for installing a system of hot water heating.

MILTON, ONT.—W. I. Dick, will receive tenders up to July 16th for installation of a steam heating and ventilating system in the public school.

WOODSTOCK, ONT.—R. J. Young & Company, London, have bought the store occupied by Trotter & Callan which they will have extensively remodelled.

WINGHAM, ONT.—F. Gelinus Department of Public Works, Ottawa, will receive tenders up to July 6th for sidewalks, fencing, etc., of the post-office.

MONCTON, N.B.—E. Edington, City Engineer, will receive tenders up to July 6th for construction of pipe sewers on Brydges, Park and Gordon streets.

HARROW, ONT.—J. H. Brown, Township Treasurer, will receive tenders up to July 10th for \$4,948.50 township of Colchester South, drainage debentures.

CARMAN, MAN.—A. Malcolmson is taking tenders for wood pipe, special castings and valves for wood pipe, cast-iron pipes, fire hydrants and gate valves.

LADYSMITH, B.C.—F. C. Gamble, Lands and Works Department, Victoria, has taken tenders for construction of a wharf and approach at Oyster Harbor.

PORT ARTHUR, ONT.—The property, corner South Water and Arthur streets has been purchased by a joint-stock company for a large hotel building.

NAPANEE, ONT.—W. G. Wilson, county clerk, will receive tenders up to July 9th for building two abutments in connection with Brandon bridge on Selby road.

HARWICH, ONT.—G. Whittington will receive tenders up to July 4th for erection of school house at Mull. Plans with J. L. Wilson & Son, Chatham, architects.

OTTAWA, ONT.—A new foundry and machine works is to be built, corner Wellington and Lyon streets. Messrs. Finnie, Maclaren and others are interested.

MELFORT, SASK.—W. G. Chisholm will receive tenders up to July 6th for erection of a dwelling house, store house and stable at the Kinistino Indian Reserve.

PINCHER CREEK, ALTA.—The citizens and the council propose granting a bonus of \$10,000 to the McDonald, Dunlop Company of Calgary, to establish a mill here.

INDIAN HEAD, SASK.—O. J. Godfrey, town clerk, will receive tenders up to August 6th for the purchase of \$149,985, five per cent. waterworks and electric light debentures.

NEEPAWA, ONT.—The town council gives notice of its intention to construct 12 ft. granolithic sidewalk on west side of Mountain avenue from Hamilton to Mill street.

ARNPRIOR, ONT.—M. D. Graham will receive tenders up to July 9th for construction of a heating and ventilating system in the public school, together with alterations and repairs.

MOOSE JAW, SASK.—The Moose Jaw Machine Works have decided to erect their new building this year.—The C.P.R. are negotiating for land for the construction of a dam up the river.

DUAGH, ALTA.—F. G. Rickard will receive tenders up to July 8th for construction of a church at Astleyville. Plans at All Saints' school room, Edmonton, and with C. Brunift, New Lennox.

STATHCONA, ALTA.—D. McLeod intends erecting a ten storey dwelling on Anderson street.—The Separate School Board purpose building a two storey school on Lumsden avenue, cost \$9,000.

CREWSON'S CORNERS, ONT.—F. S. Near, Ballnafad, and A. McKinnon, Hillsburg, are taking tenders for two bridges, one at this place, the other on sixth concession boundary, Erin and Esqueving townships.

CALGARY, ALTA.—The Alberta Biscuit Company have taken tenders for the erection of a new factory, corner Fourth and Ninth avenues.—R. C. Thomas intends building an implement warehouse cost \$5,000.

SINTALUTA, SASK.—V. W. Horwood, architect, Winnipeg, will receive tenders up to July 5th for erection of a four roomed brick and stone school building. Tenders also received by G. G. Barber, Secretary-Treasurer.

WEYBURN, SASK.—The Town Council have purchased a site on Main street for municipal buildings.—The Methodist and Presbyterian congregation purpose building new churches.

VICTORIA, B. C.—W. T. Leighton, of Winnipeg, has purchased a site on Cadboro Bay road for a residence.—Pither & Leiser have purchased site corner Fort and Wharf streets for four-storey office and warehouse building.

CULLODEN, N.S.—F. Gelinus, Department of Public Works, Ottawa, will receive tenders up to July 20th for construction of a breakwater here. Plans at the Department and with E. G. Millidge, Antigonish, C. E. W. Dodwell, Halifax, and Postmaster here.

CHATHAM, ONT.—W. D. A. Ross has taken tenders for erection of a building for Chatham Fruit Growers' Association.—P. S. Coate will receive tenders up to July 7th for erection of additions to Chatham Gas and Electric Light plant. Plans with J. L. Wilson & Son, architects.

POIRIERVILLE, N.S.—F. Gelinus, Department of Public Works, Ottawa, will receive tenders up to July 21st, for construction of a wharf here. Plans at the Department and at offices of C. E. W. Dodwell, Halifax, E. G. Millidge, Antigonish, N.S., and with postmaster at Richmond, N.S.

PORT CGLBORNE, ONT.—L. E. J. Hopkins will receive tenders up to July 7th for erection of a Guild Hall here. Plans at St. James Rectory.—L. K. Jones, Department of Railways and Canals, will receive tenders up to July 5th for placing stone protection along summit level of the Welland canal between this town and Thorold.

BELLEVILLE, ONT.—Lt. Col. A. A. Farley, Hotel Quinte, has taken tenders for repairing dwelling corner Bridge street and Blecker avenue.—Belleville B. & A. Association will receive tenders up to July 4th for erection of Exhibition Building at the Driving Park.—The city propose the issue of \$25,000 debentures for extension and improvement to the gas plant.

ST. JOHN, N.B.—H. C. Stone, architect, Montreal, has prepared plans for the new Royal Bank building, corner King and Canterbury streets, five storeys, concrete and iron construction.—The Dominion Parliament in their supplementary estimates appropriated \$13,000 for additions to the Military Buildings, also \$15,000 for improvements on the Quarantine Station.

TORONTO JUNCTION, ONT.—W. J. Conron will receive tenders up to July 5th for block paving on Keele street north.—Building permits have been issued as follows: S. E. Jewett, three 2-story brick dwellings, Kingsley avenue, cost \$1,400 each; Kerr Company, brick factory, Pelham avenue, cost \$1,500; J. B. M. Rose, four 2-story cement and brick dwellings, Annette street, cost \$1,300 each.

BRANTFORD, ONT.—G. W. Hall, architect, will receive tenders up to July 9th, for erection of school building on Darling street.—The following building permits have been issued: G. Benwell, alterations to Benwell hotel, Marlet street, cost \$2,600; additions and alterations to Huron street school, cost \$16,000.—A. C. Tresham will build a brick dwelling on West Mill street.

QUEBEC, QUE.—The following building permits have been issued: Francis Parent, building corner Durocher and Franklin streets, cost \$2,500; A. Turgeon, repairs to property, Rigauville, street, cost \$1,500; Boswell Bros., building corner Bridge and Queen streets, cost \$2,500; M. Cauchon, repairs to building, St. John street, cost \$1,300; P. A. Lamonde, repairs to building on St. Joseph street, cost \$1,200.

EDMONTON, ALTA.—C. B. Beals, of Kelly & Beals, will build a brick residence on Fifth street.—H. N. Lovatt will build a residence on Jasper avenue east.—The City Council have ratified the plans for the sewer to be built at a cost of \$300,000.—The Board of Directors of the Y. M. C. A. have instructed the architect to proceed with the plans in detail of their building.—The following building permits have been issued: C. M. Watts, building, Third street; J. Mitchell, dwelling, Ottawa street; G. Hutton, warehouse, Howard street.—G. J. Kinnaird will receive tenders up to July 9th for construction of six miles of concrete and pipe sewers, and laying of about four miles of water pipe. Plans at City Engineer's office.

HAMILTON, ONT.—J. R. Allen, is receiving tenders this week for additions to Trolley street school.—The Hamilton club are considering making important changes in their club house corner James and Main streets.—The Frontier Realty Co. purpose erecting fifty houses at Kenilworth opposite the Jockey Club grounds.—G. E. Bristol has purchased a site on King street for a large warehouse.—It is expected that arrangement will soon be made with the Cataract Power Co. by which the new terminal station will be built here.—Buntin, Gillies & Company will soon begin the construction of their four storey building, corner Jackson and John street.

WINNIPEG, MAN.—D. Smith, architect, has prepared plans for a foundry on Alexander street, cost \$38,000.—Same architect has prepared plans for three stores on Main street for A. P. Crump.—Nares, Robinson & Black, real estate brokers, have sold the Hotel du Canada, on Lombard street, which it is said will be replaced by a modern business block.—Stevenson & Paterson, architects, have prepared plans for the new abattoir on Fonseca street, cost \$20,000.—F. R. Evans, architect, is receiving tenders this week for erection of a brick veneer church on Burrows avenue, for Tabernacle Baptist congregation.—J. H. G. Russell, architect, has taken tenders for erection of a residence on Stradbroke place, for J. D. Clark. The same architect, has taken tenders for erection of a warehouse on Lombard street for Crain, Ordway & Co.—The by-law has been carried to provide \$3,000,000 for installation of civic power plant.

MONTREAL, QUE.—The plans of Edward & W. S. Maxwell, architect, for a new building for the Church of the Messiah on Sherbrooke street have been accepted, cost about \$70,000.—The Finance Committee have made appropriations for plans to remodel the water supply system.—The Council gives notice of its intention to construct sewers in Albert, Amity, Bourgeois, Carrier, Cardinal, Chausse, Davidson, Dufferin, Joliette, Resther, St. Dominique, St.

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Germaine and St. Norbert streets, Cote des Neiges road, Lincoln, Laurier and Sherbrooke avenues.—Building permits have been issued as follows: Munderloh & Co., four-storey brick and stone building, Jurors street, cost \$20,000; J. Duclax, two dwellings, Richelieu street, cost \$6,000; E. St. Pierre, two dwellings, Annie street, cost \$6,000; N. Deslauries, two dwellings, St. Denis street, cost \$6,000; J. B. Bailargrow, warehouse, St. Urban streets, cost \$7,000; Hicks & Co., two houses, Metcalfe street, \$20,000; S. Robertson, skating rink, Grey street, cost \$15,000; P. Dausevaux, four dwellings, Dufresne street, cost \$12,000.—The G.T.R. have definitely decided to erect at once a ten storey building corner McGill street and Youville Square.

VANCOUVER, B. C.—Saunders & Lawton, architects, have taken tenders for a four-storey and basement, store and apartment building corner Granville and Robson streets.—The Vancouver Flour Mills Limited, expect to soon begin their new mill, cost \$100,000. A 200,000 bushel elevator will also be erected, cost \$50,000.—W. Walsh will build a three-storey block on Pender street, cost \$30,000.—Grant & Henderson, architect, have prepared plans for a block for Dr. N. Drier on Pender street, cost \$12,000.—E. Plumb has purchased the Golden Gate Hotel which he will have extensively remodelled.—The Colonial Hotel, on Granville street, will be remodelled.—Tenders have been taken for the erection of a brick block on Carro'l street for the Vancouver-Shanghai Land Company.—Grant & Henderson, architects, will receive tenders up to July 4th for additions

to St. Andrew's church, corner Georgia and Richards streets.—The following building permits have been issued: E. E. Lipsett, building on Water street, cost \$10,000; W. R. McLeod, residence, Sixth avenue, cost \$1,400; James Hay, three dwellings on Seventh avenue, cost \$4,200; T. M. Robertson, residence on Beech avenue, cost \$1,500; S. Bealey, residence on Pender street, cost \$1,500; Chin Wan Chong, building on West avenue, cost \$3,000; J. Bennett, residence on Seventh avenue, cost \$2,000.

TORONTO, ONT.—The plans of N. B. McGiffin, architect, for St. Cyprian's church building, corner Manning and Fo'is avenues, have been adopted, cost \$16,000.—Tenders are taken at 50 Austin avenue for building a summer cottage.—The plans for the Sea Wall from the new fort to Spadina avenue have been prepared, cost \$75,000.—Plans are being prepared for the new Riverdale High School, cost about \$47,000.—At a recent meeting of the members of the City Engineer's and City Solicitor's departments and Board of Control it was decided to proceed as rapidly as possible with the erection of the Yonge street bridge.—A. R. Williamson purposes

erecting a three-storey apartment house corner Grange avenue and Esther streets, cost \$15,000.—The city gives notice of its intention to construct asphalt pavement on Bond street from Queen to Gould, cost \$14,858; Gerrard street

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from Yonge to Elizabeth, cost \$5,964; Albert street, from Teraulay to Chestnut, cost \$6,461; Ann street, from Yonge to Mutual, \$7,290; St. Vincent street, from Grenville to St. Joseph, cost \$9,292; Hayter street, from Yonge to Chestnut, cost \$8,531; Mutual street, from Queen to Wilton avenue, cost \$8,814; McGill street, from Yonge to Mutual, cost \$7,265, and several others, also sewers and concrete sidewalks.—The City Engineer has recommended the following permanent pavements: Asphalt—Salem avenue from Dovercourt Park to Bloor street, \$9,590; Gould street from Yonge to Victoria, \$3,719; Gordon street from Sheridan avenue to Dufferin \$2,770; Adelaide street from Spadina avenue to York \$17,212; Richmond street from Bay to Victoria, \$3,493; Marion street from Lansdowne to MacDonell avenue, \$1,397; Asphalt Block—Temperance street from Bay to Yonge, \$10,283; West Market street from Front to King, \$6,583; Asphalt—Gould street from west side of Victoria to Mutual, \$9,045; Gore street from Clinton to west end, \$1,624; Grace street from 994 feet north of north-east corner of College ann Grace to 500 feet further north, \$2,554; Palmerston avenue from Bloor street to Seaton square, \$4,212; Bloor street from Lansdowne avenue to Dundas street, \$20,778; Wilton avenue from Parliament to River, \$13,274.—The Coronation Hotel, corner King & Church streets, will in future be managed by W. Krausmann, who will have extensive alterations made in the building.—The building of the new Methodist church, corner Queen street and Bellefair avenue, will begin at an early date.—Tenders are invited by W. Brand, 728 Spadina avenue, until July 8th for brick and stonework for a house on Bloor street.—Stewart Harshorn Co. will soon begin erection of a warehouse on River street, cost \$15,000.—The by-laws have been carried to provide for building Lansdowne avenue subway, cost \$100,000 and for reclamation of Ashbridge's Marsh, cost \$200,000.

#### CONTRACTS AWARDED.

PARRY SOUND, ONT.—Erection of jailer's residence: W. Clubb, contractor.  
LETHBRIDGE, ALTA.—C.P.R. roundhouse: Mr. McDiarmid, contractor.  
VICTORIA, B.C.—Residence at Shwinigan lake, for C. K. Magill: D. H. Bale, contractor.

BOISEVAIN, MAN.—\$10,000 5 per cent. debentures: National Trust Co., Winnipeg, purchasers.

FORT WILLIAM, ONT.—Warehouse for J. W. Griffin Company, of Winnipeg: Russell Bros., contractors.

MILTON, ONT.—Silex walks in town: Pettypiece Silex Stone Co., Amherstburg, contractors, at 14 cents a foot.

BRANTFORD, ONT.—Erection of screw factory at West Brantford: Schultz Bros., contractors, cost about \$19,000.

ROSTHERN, SASK.—New building on Railway street for J. J. J. S. A. Covert, Ponoka, contractor, cost \$10,000.

WINGHAM, ONT.—Kelsey system of warming and ventilating in the High school: James Smart Manufacturing Co., Brockville.

SASKATOON, SASK.—Rectory for St. John's church: J. R. Coulter, contractor, \$2,300; electric wiring, O. S. Lemery.

TAVISTOCK, ONT.—Construction of Wilhelm and Erb drains in township of South Easthope: James Wellwood & Co., contractors.

WINNIPEG, MAN.—Supply and erection of structural steel for train shed of G.T.R.: Dominion Bridge Company, Montreal, contractors.

KINGSVILLE, ONT.—The Pettypiece Silex Stone Co., of Amherstburg, have contracted for all the extra cement beds,

etc., for the electric railway power house here.

VANCOUVER, B.C.—Hotel building corner Burrard and Georgia streets for B. T. Rogers: F. Hewett, contractor, cost \$30,000. Grant & Henderson, architects.

CASTLETON, ONT.—The James Smart Manufacturing Co., Brockville, have received the contract for placing Kelsey system of warming and ventilating in Public school.

OTTAWA, ONT.—65,000 tons steel rails for two sections of the National Transcontinental Railway: Dominion Iron & Steel Co., Sydney, N.S., and Lake Superior Consolidated Co., Sault Ste. Marie, Ont.

HALIFAX, N. S.—Improvement of heating system for City Hall: Longard Bros., contractors, to cost \$1,468.—50,000 tons of 60 lb. rails for MacKenzie & Mann Railway Systems east and west: Dominion Iron & Steel Co., Sydney, N.S.

LONDON, ONT.—Kelsey system of warming and ventilating in Empress avenue Methodist church: James Smart Manufacturing Co., Brockville, contractors.—Construction of Sylvan bridge over the Sauble river: Concrete work, R. Waltham, of Kerwood, for \$1,300; steel work, Hamilton Bridge Works for \$2,450.

OWEN SOUND, ONT.—The Light & Power Committee recommended the acceptance of the tender of Robb Engineering Co., of Amherst, N.S., for one horizontal cross compound condensing Robb-Armstrong Corliss engine with fittings, cost \$7,591 and the tender of Reid & Kilmer, Toronto, for one revolving field alternating current generator 375 k.w. with all attachments.—Electrical Supplies: Charles Kilmer, Walkerton, contractor, cost \$7,000.

#### FIRES.

The large Cathedral, convent and other buildings at Nicolet, Que., loss \$600,000.—The mill of the Chicoutimi Pulp Co., at Chicoutimi, Que., damaged to extent of \$20,000.—Buildings of the Munro-McIntosh Carriage Company, at Alexandria, Ont., damage \$40,000.—Sixteen houses on Coady road, Sandon, B. C., loss \$12,000.—Central Presbyterian church, corner Jackson and McNab streets, Hamilton, completely gutted.

#### BUILDING IN REGINA.

The building permits issued for Regina up to May 31st, of this year amounted to over three-quarters of a million dollars. The approximate value of building permits issued during the month of May alone totalled \$337,600.

Alfred G. Gariepy and Simeon Hamelin, contractors, Montreal, have registered their business under the name of Hamelin & Gariepy.



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**ITEMIZED COST OF HAND-MIXED CONCRETE WORK.**

Mr. Fred R. Charles, city engineer of Richmond, Ind., has compiled the following notes concerning the cost of five pieces of hand-mixed concrete work done by day labor under his charge as engineer and superintendent of construction.

The first work was the construction of an abutment and six river piers for a bridge over the Miami River at Fernald, Ont. The piers were put down with cofferdams. Sand and stone were secured close to the site, but the cement had to be teamed 10 miles. The concrete amounted to 1,542 cu. yd., and cost \$6.30 a yard, made up as follows: Cement at \$2.10 per barrel, \$1.58; sand, 35 cents; stone, 75 cents; lumber, 64 cents; tools, 20 cents; total for materials, \$3.52; pumping, 15 cents; labor at \$1.75, \$2.78.

The second work was the construction of two abutments, measuring 434 cu. yd., for the Ernst street viaduct in Cincinnati. The cost per cu. yd. was \$6.08, itemized as follows: Cement, at \$1.70, \$1.48; sand, 64 cents; stone, \$1; lumber, 40 cents; tools, 6 cents; total for materials, \$3.58; excavating in rock and shale, \$1.12; mixing and placing concrete, \$1.13; building forms, 25 cents. Labor was paid \$1.75 a day.

The third work was the construction of 570 cu. yd. of concrete in the pedestals of the Quebec avenue viaduct at Cincinnati. These measured 5 ft. square on top, and were from 8 to 20 ft. high. Their location was very inconvenient for the delivery of materials, which was wholly team and wheelbarrow work. The total cost was \$7.16 per cu. yd., itemized as follows: Cement, at \$1.60 a barrel, \$1.40; sand, 53 cents; stone, \$1.84; lumber, 38 cents; tools, 5 cent; total for

materials, \$4.20; labor at \$1.75 a day, \$2.96

The fourth work was a pier, two abutments and some pedestals for a railroad viaduct in Cincinnati. The pier was 56 ft. high and a steam derrick was used in handling the concrete for it. On the remainder of the work all materials were teamed or wheeled. The total amount of concrete was 2,111 cu. yd., and its cost was \$7.23 per cu. yd., itemized as follows: Cement, at \$1.60, \$1.44; sand, 50 cents; stone, \$1.03; lumber, 54 cents; tools, 25 cents; water, 3 cents;

total for materials, \$3.79; labor at \$1.75 a day, \$3.44.

The last work was a reinforced concrete dam across the White-water river at Richmond, Ind. It measured 220 cubic yards. The footings were put in with the help of cofferdams and steam pumps. The cost was \$5.58, itemized as follows: Cement at \$1.60, \$1.48; sand and gravel, 80 cents; lumber, 60.8 cents; tools, 44.5 cents; total for materials, \$3.338; clearing and excavating, 96 cents; setting forms and mixing concrete, \$1.007; pumping 27.5 cents.

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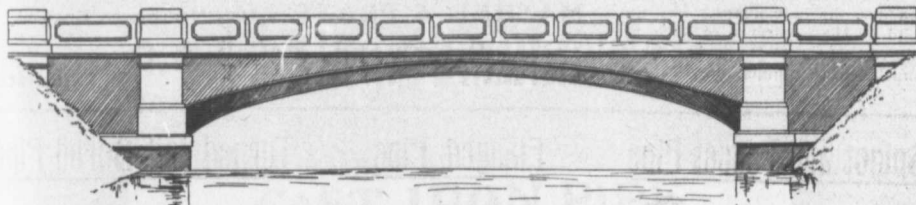
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### THE MANUFACTURE AND USE OF CONCRET PILES.

Mr. Henry Longcope, recently read a paper on this subject before the National Association of Cement users of the United States. After stating that he had, through the courtesy of Messrs. Constantine Schuman and Percy H. Watson, two well known engineers, been able to present for the consideration of the Convention a number of illustrations showing the manufacture of concrete piles, and the erection of buildings thereof, under the different methods, he went on to show that the matter of concrete piles and abutments was by no means a modern invention. That it was used by the prehistoric Race of Lake Dwellers which inhabited one portion of Europe. Piles were then driven with very crude instruments. The first method adapted to modern uses was the sand pile, produced by driving a wooden form in the ground and withdrawing the same; the hole was then filled with moist sand, well rammed. The next method was to drive a metal form into the ground and, after withdrawing, to fill the hole with concrete. This he maintained was not successful, because in withdrawing the form the ground would collapse before the concrete could be inserted. The next method that was introduced was that of dropping a cone shaped piece of metal weighing five tons, a number of times from a considerable height, in order to form a hole which was afterwards filled with concrete. This method never passed the experimental stage. Then the plan was devised to mold a pile, using concrete, sometimes reinforced. This pile, after perfectly hard, was driven in a similar manner as is now in vogue. While concrete piles made by this method were effective, yet they were open to several criticisms, such as difficulty in handling and the time wasted in waiting for the concrete to set hard. He said that while it seemed well nigh impossible to construct a form that will entirely resist the repeated blows of the hammer, the only solution was to build all the apparatus of such a rugged nature as to reduce the punishment to a minimum.

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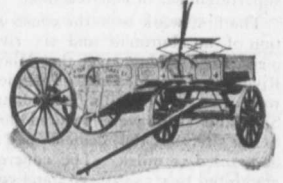
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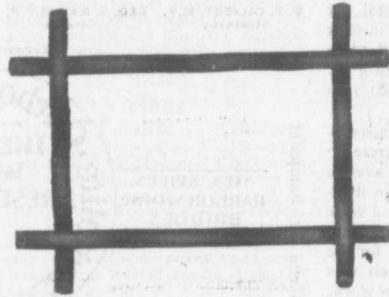


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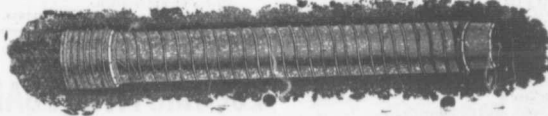
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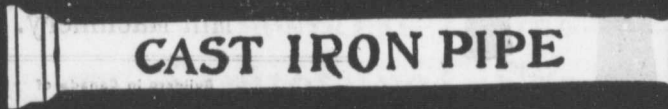
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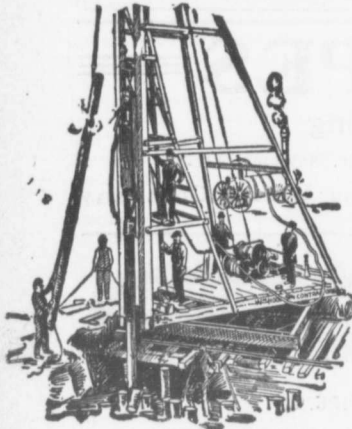
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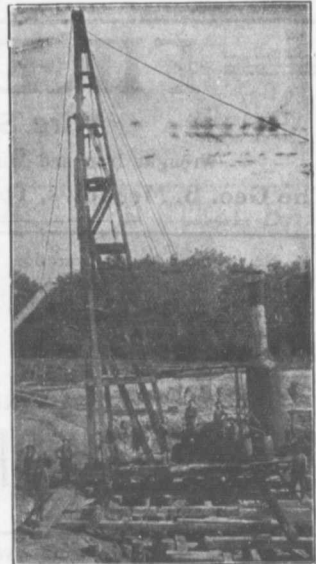
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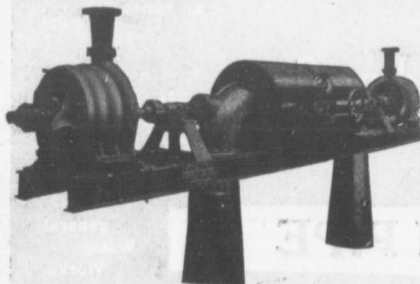
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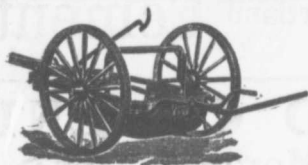
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					Initial	Final	Flat.					3 (Sand) to 1 (Cement)				
							1 dy.	7 d.	28 dya.	3 mos.	1 yr.	1 dy.	7 dya.	28 dya.	3 mos.	1 yr.
1903	20	O.K.	3.135	2.1	162	345	307	701	783	827	*	74	214	299	367	*
1904	44	O.K.	3.150	2.0	132	342	300	744	848	914	938	86	262	354	401	427

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PERSONAL.

Mr. W. J. Bowers, C. E., chief assistant to Mr. John Galt, consulting engineer, Toronto, has gone to St. Johns, Newfoundland, to inspect the waterworks system now being constructed there from Mr. Galt's plans.

CORRECTION.

In last week's issue of the CONTRACT RECORD under the heading of Contracts Awarded, the Pettypiece Silex Stone Co., of Amherstburg were mentioned as the contractors for construction of silex walks in Collingwood. This should have been Sault Ste Marie.

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The Pettypiece Silex Stone Co., Amherstburg, Ont., write: We consider the RECORD a very valuable journal. We have secured some very good contracts from being advertised in the RECORD and appreciate the journal very much.

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The Canadian McVicar Engine Company, of Galt, Ont., have taken over the factory formerly owned by the Galt Power & Gas Machine Company where they will manufacture gas and gasoline engines.

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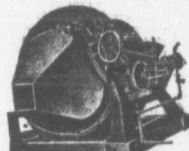
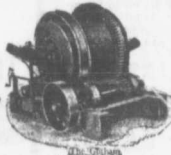
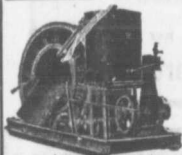


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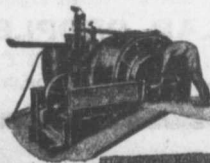
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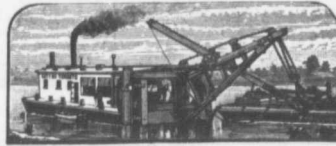
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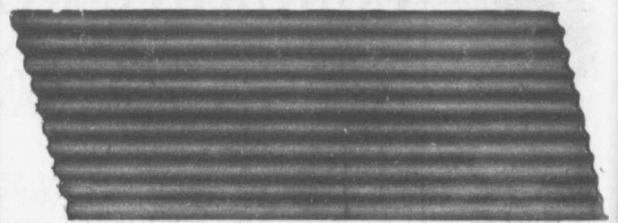
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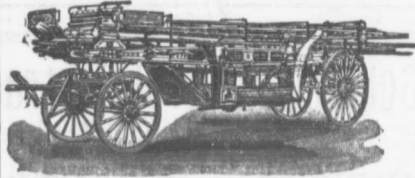
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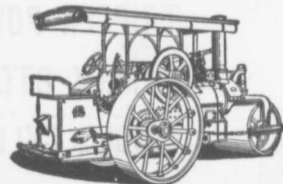
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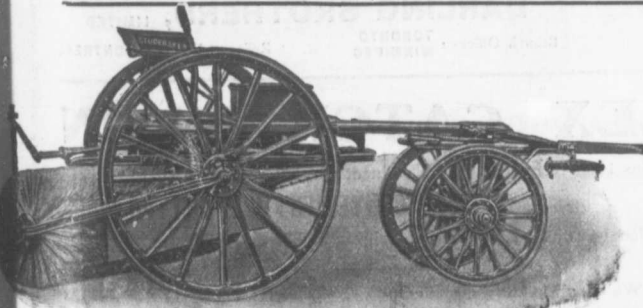
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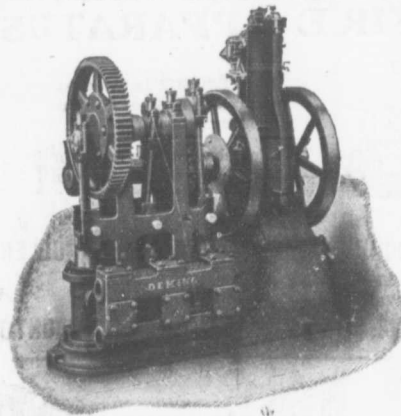
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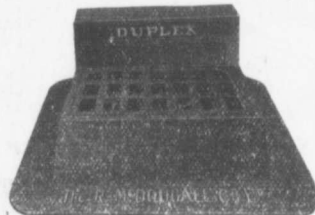
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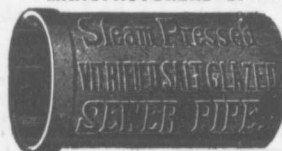
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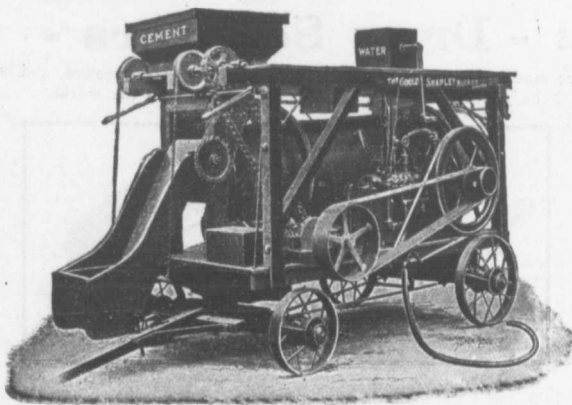
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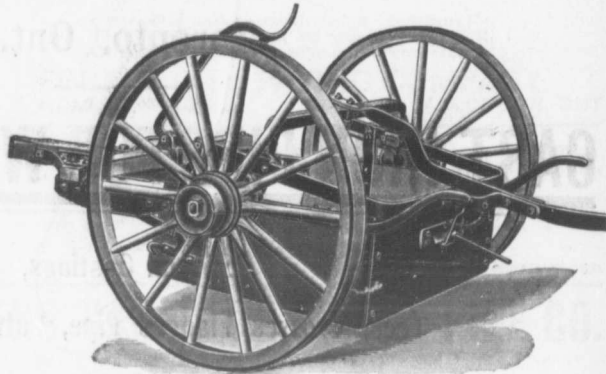
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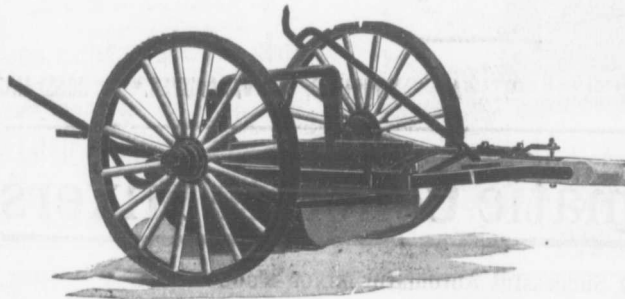


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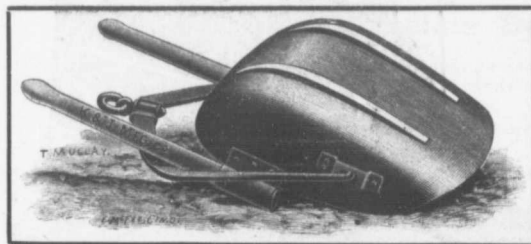
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