

CANADIAN CONTRACT RECORD

A WEEKLY JOURNAL OF

PUBLIC WORKS • TENDERS •
ADVANCE INFORMATION •
AND MUNICIPAL PROGRESS

EVERY

WEDNESDAY

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. 13.

NOVEMBER 12, 1902

No. 39

THE CANADIAN CONTRACT RECORD,
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paper.

DRAUGHTSMAN WANTED.

Must be good all round man. GREGG & GREGG,
47 King St. West, Toronto.

TENDERS WANTED

Sealed Tenders, addressed to the undersigned,
and endorsed "Tender for Steam Pumping En-
gine, 1 Million Gallons per day Capacity," will
be received until evening of TWENTY-NINTH
DAY OF NOVEMBER, 1902.

No tender necessarily accepted.
For specifications, etc., address

DENIS DOYLE, Town Clerk,
Hawkesbury, Ont.



TENDERS

FOR

COLD STORAGE PLANT, ETC.

Tenders addressed to the undersigned will be
received by registered post up to 12 o'clock,
noon, on

TUESDAY, 9th DECEMBER, 1902,

for furnishing and installing a cold storage
plant in the new St. Lawrence Market, Toronto.
Each tenderer to submit his own plans and
specifications and to state the capacity of the
plant proposed to be supplied, and the estimated
annual cost of operating the same.

Alternative tenders will also be received for
leasing the space in the Market set apart for
cold storage, and for installing and operating a
cold storage plant in connection therewith.

Envelopes containing tenders must be marked
on the outside, so as to show the class of work
tendered for.

Tenders must be accompanied by a marked
cheque made payable to the order of the City
Treasurer, or a cash deposit of \$500.00.

The usual conditions relative to tendering
as prescribed by city by-law, must be strictly
complied with, or the tender will not be enter-
tained.

O. A. HOWLAND (Mayor),
Chairman Board of Control

City Hall, Toronto, November 7, 1902

Town of Listowel TO CONTRACTORS

Sealed tenders addressed to the undersigned
will be received up to 6 p. m. MONDAY, THE
24TH OF NOVEMBER, 1902, for the construction
of a

TRUNK SEWER AND SEWERAGE DISPOSAL WORKS

in the Town of Listowel. Plans and specifica-
tions may be seen and forms and tenders ob-
tained at the office of the Town Clerk, Listowel,
or the office of Wm. Mahlon Davis, Civil En-
gineer, Economical Block, Berlin. Contractors
will be required to furnish satisfactory sureties.
The right is reserved to reject any or all tenders.

WILLIAM BRIGHT, Town Clerk,
Listowel, Ont.

TENDERS WANTED

Construction of Sewer and Waterworks
Distribution System.

TOWN OF HAWKESBURY.

Sealed tenders addressed to the undersigned,
and endorsed "Tenders for Construction of Sewer
and Waterworks Distribution System," will
be received until evening of TWENTY-NINTH
DAY OF NOVEMBER, 1902.

No tender necessarily accepted.
Plans of the proposed works can be seen at
the office of the undersigned, from whom, also,
specifications, etc., can be obtained.

DENIS DOYLE, Town Clerk,
Hawkesbury, Ont.

WOODEN BLOCK PAVEMENT

Tenders will be received by the undersigned
up to 12 o'clock, noon, of MONDAY, THE 17TH
DAY OF NOVEMBER, 1902, for the construction
of about 1,050 lineal feet of Wooden Block Pavement
(blocks to be chemically treated), about 24
feet wide, on a Concrete Bed and Sand Cushion,
with combined Concrete Curb and Gutter, on
William Street, from the south side of Colborne
Street to the north side of Stanley Avenue, in
the City of Chatham, Ontario, according to plans
and specifications on file at the City Clerk's
office in said city.

Tenders must be accompanied by a marked
cheque for 10 per cent of the tender.
Contractor to furnish material of every de-
scription for the work.

The lowest or any tender not necessarily ac-
cepted.

W. G. MERRITT,
City Clerk.

Dated October 25th, 1902.

Thomas Gilpin is advertising his plan-
ing mill at Wiarton for sale.

The firm of F. F. Howell & Son,
roofers, Montreal, has been dissolved.

Sauve, Louis & Company, carpenters,
Maisonneuve, Que., have registered
partnership.

The assignment is announced of the
Gee Electrical Engineering Company,
Limited, Colborne street, Toronto.

CONTRACTS OPEN.

GALT, ONT.—An addition to the
Collegiate Institute will likely be built.

TROUT LAKE CITY, B. C. — W.
Cowan purposes erecting a large saw
mill here.

BRANTFORD, ONT.—The Pratt-
Letchworth Co. have accepted plans for
proposed addition to works.

TRURO, N. S. — The Chambers
Electric Light & Power Co. purpose ex-
tending their power house.

CHATHAM, ONT.—Alterations and
improvements costing \$30,000 are about
to be made to the Garner House.

STRATFORD, ONT.—It has been
decided to use stock brick in the con-
struction of the library building.

SHEDIAC, N. B.—The Dominion
government will be memorialized to build
a post office and custom house here.

SYDNEY MINES, N.S.—It is under-
stood that the Nova Scotia Steel & Coal
Co. will erect a second blast furnace.

NORTH TORONTO, ONT.—Fred
Goulding intends building a residence on
Yonge street, near Eglinton avenue.

PARKHILL, ONT.—T. A. Mayburry,
town clerk, invites bids up to November
17th for purchase of \$3,500 debentures.

HULL, QUE.—The agreement be-
tween the city and the International
Portland Cement Co. has been signed.

ST. JOHN, N. B.—The council will
likely issue \$7,000 of debentures to
provide for expenditures on waterworks.

KEEWATIN, ONT.—It is reported
that the Keewatin Lumber & Mfg. Co.
intend building a tie mill on Keewatin
Bay.

COLLINGWOOD, ONT. — The
Grand Trunk Railway is about to erect
new freight sheds and provide additional
sidings.

LADYSMITH, B. C.—The Ladysmith
Water Co. gives notice of application for
authority to construct a waterworks
system.

STRATFORD, ONT.—W. J. Mooney
is the moving spirit in a proposition to
build a large biscuit and confectionery
factory here.

ST. THOMAS, ONT.—The Suther-
land-Innes Co., of Chatham, are con-
sidering the establishment of a stove and
hoop mill here.

PRINCE ALBERT, N. W. T.—G. R.
Russell has purchased the Courtney brew-
ery and will convert it into a pork pack-
ing establishment.

TORONTO JUNCTION, ONT.—The
Gurney Foundry Co., who are building a
foundry here, have staked out the site
for another building.

OWEN SOUND, ONT.—The Ontar-
io Linsseed Oil Co., of St. Mary's, Ont.,
are considering the establishment in this

town of a factory for the manufacture of linseed oil and oil cake at a cost of \$50,000.

ST. JOHN, N. B.—T. McAvity and A. P. Barnhill are applying for incorporation as the St. John Abattoir Co., with capital of \$100,000.

OSHAWA, ONT.—It is probable that an engineer will be engaged to report as to the cost of a combined waterworks and electric lighting system.

GLACE BAY, N. S.—Tenders are asked by John C. Douglas for the erection of a three-storey building, 50x88 feet, containing stores and offices.

FORT WILLIAM, ONT.—It is reported that the Clergue Co., of Sault Ste. Marie, intend to develop the Kakabeka water power near this place.

SAND POINT, ONT.—John Brennan has succeeded in inducing T. H. DeCew to build a stove and hoop mill here, to be operated by electricity.

OXFORD, N. S.—The capital of the Oxford Wollen Mills Co. is to be increased for the purpose of erecting new buildings and installing new plant.

FREDERICTON, N. B.—The Senate of the University of New Brunswick have decided to build a gymnasium to replace the one destroyed by fire last spring.

LINDSAY, ONT.—The council has decided to submit a by-law to the ratepayers at the January elections to borrow \$30,000 for the construction of roads.

HALIFAX, N. S.—Victoria Park has been selected as a site for proposed library building.—Plans have been prepared for a residence and shop to be built by James Coolen on corner of Gray and Lockman streets.

NORTH SYDNEY, N. S.—Architects are requested to submit plans by December 1st for proposed town building. Particulars from J. M. Armstrong, town clerk.

ARNPRIOR, ONT.—The municipal councils of McNab and Arnprior have decided upon a system of drainage through the sewerage system of this town.

ORILLIA, ONT.—The Fire and Light Committee has recommended that duplicate step-up and step-down transformers be purchased for the electric light plant.

RAPID CITY, MAN.—The Rapid City Power, Light & Woollen Mfg. Co. has been formed here to develop a water power on the Little Saskatchewan river. The capital is \$25,000.

ST. MARY'S, ONT.—A by-law giving certain concessions to David Maxwell & Sons to assist them in extending their works was carried last week by a large majority.

VICTORIA, B. C.—Six tenders have been received for the superstructure of the Point Ellice bridge. An announcement regarding the accepted tender will likely be made this week.

NEW WESTMINSTER, B. C.—The Dominion government has been asked for a grant towards the building of a new bridge across the Fraser river at this place, to cost nearly \$1,000,000.

NORTH BAY, ONT.—At last council meeting it was decided to submit a by-law to the ratepayers on January 5th to grant a bonus of \$15,000 to assist J. J. Warren, of Toronto, and others, in building a pulp mill.

WOODSTOCK, ONT.—J. M. Ross, Sons & Co., manufacturers of agricultural implements, of Brampton, have asked the council what inducements they would offer for the removal of their works to this city.

HAWKESBURY, ONT.—Denis Doyle, town clerk, will receive tenders up

to 20th inst. for construction of sewer and waterworks distribution system, also for the supply of a steam pumping engine of one million gallons capacity.

SLOCAN, B. C.—A by-law to assist the Slocan-Ontario Lumber Co. in building a large saw mill here has been sanctioned by the ratepayers. J. H. Lavallee, of Orillia, Ont., and George Chew, of Midland, Ont., are the promoters.

WATERLOO, ONT.—A committee has been appointed to report as to a site for a new library building.—W. A. Greene has made a proposition to erect a factory here for the manufacture of collars and cuffs, agreeing to expend \$10,000 on buildings and machinery.

GODERICH, ONT.—By-laws will be submitted to the ratepayers on November 28th to grant a bonus of \$25,000 to assist the Goderich Organ Company in rebuilding their factory, and to take \$50,000 of stock in the Huron, Bruce & Grey Electric Railway.

WINDSOR, ONT.—Charles A. Greenman, president of the Grand Rapids Wood Carving Co., was in the city a few days ago looking for a location for a Canadian branch of their works.—The Board of Education has decided to secure plans for a six-roomed addition to Tuscarora street school.

LONDON, ONT.—The late Thomas Alway Hall by his will bequeathed \$10,000 for the erection of a home for children.—Herbert Matthews, architect, is preparing plans for a large addition to the D. S. Perrin Manufacturing Company's building.—Moore & Henry, architects, have sent the tenders for the new armory to Ottawa to be decided upon.

RAT PORTAGE, ONT.—At the next session of the Ontario Legislature the incorporation of the Lac Seul, Rat Portage & Keewatin Electric Railway Company will be asked for, with power to build an electric railway between Lac Seul and the Mikado mine. C. W. Chadwick is the promoter of the enterprise. Another company has under consideration the development of the Ross, Hall and Brown water power.

GUELPH, ONT.—It is understood to be the intention of the Taylor-Forbes Co. to erect a large number of workmen's dwellings.—A second building, to be called Macdonald Hall, is to be erected at the Ontario Agricultural College from a gift of \$125,000 by Sir William Macdonald, of Montreal. This building, the plans for which are being revised, will be of red pressed brick, with stone foundations and terra cotta trimmings.

VANCOUVER, B. C.—Hon. Mr. Dunsmuir, Premier, is considering the establishment of a large iron and steel plant on Campbell river, in the northern part of Vancouver Island. The building of a railway to Comox is part of the proposed scheme.—The directors of both the Young Men's Christian Association and the Young Women's Christian Association are taking steps towards the erection of new buildings.—The Chinese Reform Association have commissioned an architect to prepare plans for a new building to be built on Carrall street, south of the Methodist Mission.

OTTAWA EAST, ONT.—Next January the ratepayers will vote on a proposal to raise \$8,000 to build a new school.—Over \$5,000 have been subscribed towards the erection of a new hall on the corner of Murray and Dalhousie streets for Le Cercle Champlain.—The following building permits were granted last week: Mrs. G. Mason, brick-veneer dwelling, Gilmour street, cost \$3,000; D. O'Connor, sr., addition to dwelling and shop, Nepean street, cost \$2,000; H. Morrison, brick-veneer dwell-

ing, Rulph street, cost \$1,300; Charles Hopewell, brick dwelling, Blackburn avenue, cost \$3,500; G. H. Stata, brick-veneer dwelling, Pretoria avenue, cost \$1,000.

HAMILTON, ONT.—A new Roman Catholic church will probably be built in the vicinity of Earl and Barton streets.—Building permits have been granted as follows: The Deering Harvester Co., brick pumping station on Schurman avenue, cost \$2,500; W. P. Witton, dwelling, North Caroline street, for William Frank, cost \$1,200; Robert Clohocy, brick tailor shop, corner Wilson and Wentworth streets, for Mrs. C. Gordon, cost \$9,000.—The Dominion government has purchased Ross Bro. property on Main street east with a view to extending the examining warehouse.—W. A. Edwards, architect, has prepared plans for another large addition to the Sawyer-Massey works, to be commenced next spring.

OTTAWA, ONT.—F. Gelin, secretary Department of Public Works, invites tenders up to November 28th for erection of a block at St. Francois Isle d'Orleans, Que. Plans at above Department, at office of P. Beland, Post Office, Quebec, and at office of J. L. Michaud, Merchant's Bank Bldg., Montreal.—Edward Huppuck, of the Standard Wall Paper Co., Sandy Hill, N. Y., was in the city recently looking for a suitable site on which to establish a Canadian branch of their factory.—The Ottawa Golf Club propose to erect a new club house.—It is probable that the C. P. R. will be compelled to build a new bridge over the Ottawa river above Chaudiere Falls.—It is reported that J. K. Paisley, of Toronto, has purchased the Grand Union Hotel and will reconstruct it.

QUEBEC, QUE.—Mr. Dion, proprietor of the St. Louis Hotel, has purchased the site of the old Academy of Music and intends erecting a building thereon to cost \$40,000.—It is understood that the authorities of Archbishop Palace will construct a wing to the palace costing about \$20,000 and a monument to Mgr. de Leval costing a similar amount.—The Quebec Terminal Co. have had plans prepared by Mr. Hoare, C. E., for extensive works around the harbor. It is proposed in addition to extending the dock out into the river, to build a masonry frontage from Allan's wharf to Point au Piz, leaving space for a grading dock and other modern facilities to be constructed at the east end of Cape Blanc. In connection with the harbor improvements a fine union station will be built on Silvery Heights.

MONTREAL, QUE.—The question of repairing the Windmill Point wharf was considered at the last meeting of the Harbor Commissioners. The work will cost in the neighborhood of \$190,000.—Tenders will shortly be invited for blacksmith shop in connection with the C. P. R. buildings.—The contemplated

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MUNICIPAL DEBENTURES

improvements to the Bonaventure station will not likely be commenced before next spring.—The council has decided to accept the grant of \$150,000 from Andrew Carnegie for the erection of library building. A site will be selected this winter and the work of construction commenced early next spring.—The City Surveyor is taking tenders up to 13th inst. for construction of part of the auxiliary sewer on St. James street, from end of existing sewer westward.—The plans for new club house for the Montreal Amateur Athletic Association, prepared by W.L. Maltby, show a building 125x100 feet, five-stories and basement, costing \$100,000.—H. C. Stone, architect, is calling for tenders for plumbing and heating, and sprinkling system for factory of the United Shoe Machinery Co. on Lagouchetiere street. Same architect is taking tenders for heating and sprinkling system for new Beardmore building at 57 St. Peter street.

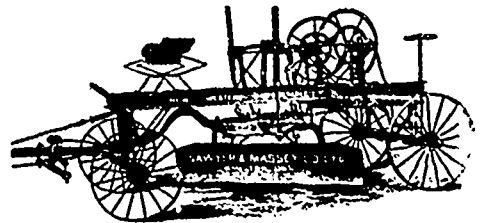
WINNIPEG, MAN.—It is the intention of the C. P. R. next year to put down 125,000 tons of 80 pound rails on the western division.—United States capitalists have purchased property at the corner of Notre Dame avenue and Arthur street and will probably build a large hotel. T. W. Dick, of Hudson, Wis., and W. Lupie, of Aberdeen, S. D., are interested.—Tenders have been taken by the city clerk for construction of an asphalt pavement on Balmoral street, from Portage avenue to Broadway, and a cedar block pavement on Pembina street, from Corydan avenue into St. Boniface.—The Great-West Saddlery Co., Limited, will next year erect a six-storey building on the corner opposite their present premises, to be used as a factory.—S.W. Woods has purchased a site in the east end on which he will erect a two-storey block next summer.—J. & E. Brown have purchased 100 feet of property on corner of Pacific avenue and Princess street, and will probably build large brick sale and livery stables thereon.—D. T. Lennon has sold the property on the south-east corner of McDermott avenue and Albert streets, and it is understood that the purchaser, whose name is withheld for the present, will erect a new building on the site.

TORONTO, ONT.—The Canadian Northern Railway Co. have purchased the property at north-east corner of King and Toronto streets. It is understood that a new office building will be built thereon, to be used as the head office of the company.—Tenders are wanted at 20 Buchanan street from all trades for erection of brick dwelling on Havelock street.—The Canada Printing Ink Co. are reported to have purchased a site in the old Upper Canada College block, King street west, on which to build a warehouse to cost about \$25,000.—It is understood that the Temiscaming and Northern Ontario Railway Commission are taking tenders on steel rails.—The city engineer has recommended the con-

struction of the following works: Asphalt pavement on Yonge street, from Davenport road to C.P.R. tracks, cost \$34,250; asphalt pavement on George street, from Queen to Gerrard, cost \$17,790. Concrete sidewalks—Simcoe street, Queen to Anderson, cost \$1,286; Berkeley street, Queen to Duchess, cost \$274; George street, Queen to north limit of house No. 7 Wilson crescent, cost \$1,703; Adelaide street, Church to Jarvis, \$1,560; Dovercourt road, Queen to Mackenzie crescent, cost \$1,168; Church street, Shuter to Gould, cost \$1,100; Church street, Gerrard to a point 57½ feet south of Carlton, cost \$547; Wellington street, York to a point 483 feet west, cost \$434; Wilton avenue, Jarvis to George, \$369; Simcoe street, Anderson to Caer Howell, running west, cost \$444; Esther street, Queen to Farley, cost \$378; St. Albans street, Yonge to St. Vincent, \$492; Northumberland street, Dovercourt to Westmoreland, cost \$428; Russell avenue, Bloor to north limit of No. 72, cost \$460; George street, Queen to Wilton, cost \$1,919.—Mr. Carroll, a wholesale merchant of Winnipeg, has purchased land on the east side of Huron street, near Bloor street, on which he will next spring erect a residence.—Mr. Rowley, K. C., will shortly erect a residence on Crescent road, Rosedale, from plans by Eden

Smith, architect.—The Bank of Toronto have purchased the property at the south-west corner of King and Bay streets now occupied by Clancy's Moorish Palace. Mr. Clancy's lease has still nine years to run, but it is understood that an agreement will likely be reached by which the bank will be enabled to commence building operations on the site early next spring.—J. & J. Taylor desire to extend their safe works on Front street east and have applied to the council for a lease of a portion of the old morgue property for the purpose.—Alterations and improvements, including a new gallery, will be made to the Sunday School portion of Parkdale Methodist church.—A joint committee of the Property Committee and the Fire and Light Committee have decided to reconstruct and enlarge Berkeley street fire hall, at a cost of \$3,500.—It is rumored that the Grand Trunk Railway Co. are having plans prepared

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MUNICIPAL DEBENTURES BOUGHT

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for a large hotel to be built on the old Parliament building grounds.—Plans are being prepared for the remodelling of the pipe organ in the Metropolitan church, Mrs. J. M. Freble having donated the sum of \$20,000 for this purpose.—The council has given notice of its intention to construct an asphalt and paving block pavement on Bathurst street, from Queen to College street, at cost of \$38,555.—Tenders are invited by the Board of Control up to Tuesday, December 9th, for construction of cold storage plant, etc., in the new St. Lawrence market.—The Toronto Steel & Iron Co. have submitted to council the conditions upon which they will establish steel and iron works at the foot of Cherry street. They agree to erect works costing \$100,000 for buildings and machinery. Their solicitors are Laidlaw, Kappelle & Bicknell.—It is understood that the Nordheimer Piano Co. intend building houses for their employees at Toronto Junction.—Tenders close at the city hall at noon on Friday of this week for construction of a sewer, 310 feet long, on Gladstone avenue, and one 475 feet long on Penrith avenue.—Building permits have been granted as follows: T. P. Stewart, pair residences, 100 and 102 Walmer road, cost \$5,000; Acme Loan & Savings Co., pair residences, 108-110 Albany avenue, cost \$7,500; Roman Stove Co., frame and rough-cast factory, Melbourne avenue, cost \$4,000; D. S. B. Coon, pair residences, 80 and 82 Roxborough avenue, cost \$7,000; Charles Mould, residence, Campbell avenue, cost \$1,200; Thomas Robertson, addition to factory, 113 Queen street east, cost, \$2,700; Charlotte Spiers, residence Dupont street, near Walmer road, cost \$2,500; William Worsfold, residence, 641 Brock avenue, cost \$1,100.

CONTRACTS AWARDED.

CORNWALL, ONT.—Sewer on Adam's lane: W. J. Wood, contractor.
ST. JOHN, N. B.—Addition to the London House: B. Mooney & Sons, contractors.
FORT WILLIAM, ONT.—Residence on Christina street for S. A. Grover: T. A. Kennedy, contractor.
FORT WILLIAM, ONT.—Rebuilding dock in front of C. P. R. elevator: Vigers & Co., of Port Arthur, contractors.
HAMILTON, ONT.—Baptist church, corner Earl and Burton streets, E. B. Patterson, architect; H. Gummo, contractor.

NORTH SYDNEY, N. S.—Anglican church. Harris & Horton, of Halifax, architects; Michael McMillan, this town, contractor.

NORTH BAY, ONT.—The contract for C. P. R. freight and flour shed is reported to have been secured by O'Boyle Bros.

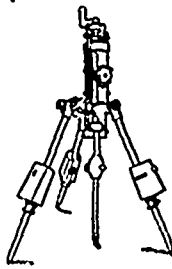
LISTOWEL, ONT.—New Salvation (Continued on page 6.)

DEBENTURES

Municipalities contemplating the issue of Debentures will find it to their advantage to communicate with

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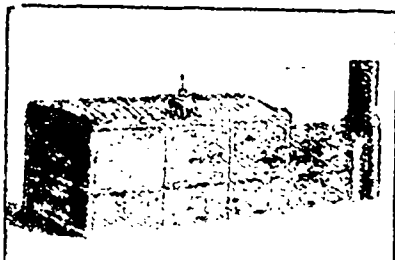
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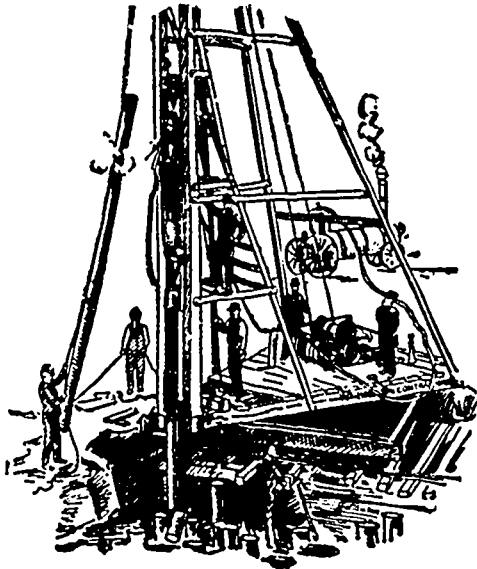
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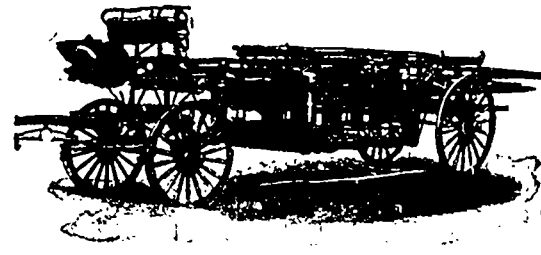
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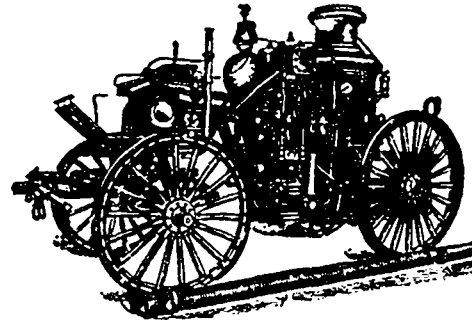
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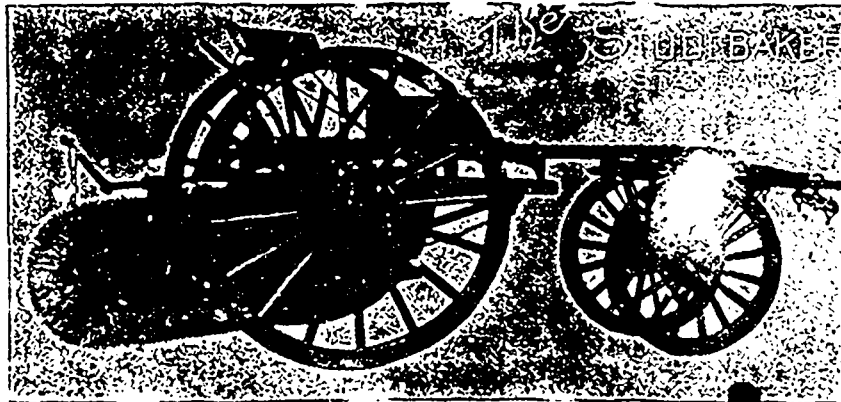
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Army barracks. Calder & Horn, contractors. Building will be brick with stone foundation, cost \$2,000.

NEW WESTMINSTER, B. C.—Alterations and additions to the Asylum for the Insane: A. E. Henderson, New Westminster, architect; Hay & Rae, contractors; expenditure about \$16,000.

NIAGARA FALLS, ONT.—Residence for Frank LeBlond: Waugh & Robertson, contractors.—Remodelling of residence, corner Erie and Morrison streets, for Mr. Burns: Niagara Falls Planing Mills Co., contractors.

GUELPH, ONT.—The Ontario government have let the contract for the new Macdonald Institute at the Agricultural College to the Schultz Bros. Company, of Brantford. The building will cost about \$75,000 and is to be completed by August next.

HALIFAX, N. S.—The Halifax Tramway Co. have decided to install a gas plant, contracts for which have been let as follows: Carburetted gas plant, Western Gas Construction Co., of Fort Wayne, Ind.; coal gas plant, Adam Weber & Co., of New York city. The gas pipes throughout the city may also be extended.

MONTREAL, QUE.—A. J. Cooke, architect, has awarded contracts for billiard room and extension for R. Stanley Bigg, corner Sherbrooke and Cote de Neiges Hill, as follows: Carpenter and joiner's work, D. M. Long; roofing, Z. Bayard; brick and masonry, James Young; painting, W. J. Chapman; heating, W. H. Creed.

David Lewars is offering his brick yard at Cornwall, Ont., for sale.

Jos. E. Mitson, painter, Galt, Ont., is announced to have assigned to A. E. Millican.

A demand of assignment has been made upon Jos. Flynn, contractor, Richelieu Village, Que.

Cooper & Lambe, builders, Raymond, Man., have been succeeded by Cooper, Lambe & Company. They will engage in the hardware business also.

The National Cross-Ply Veneer Company, of Toronto, is reported to have assigned to J. P. Langley. The company was organized about six months ago, with a capital of \$100,000.



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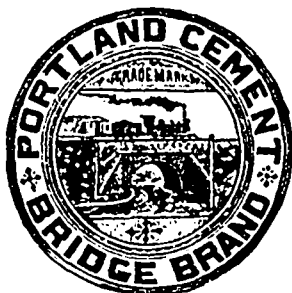
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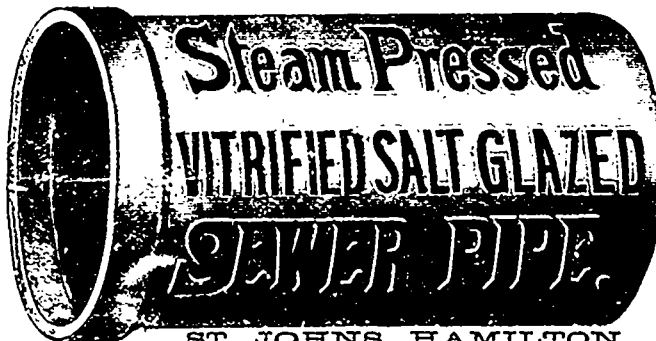
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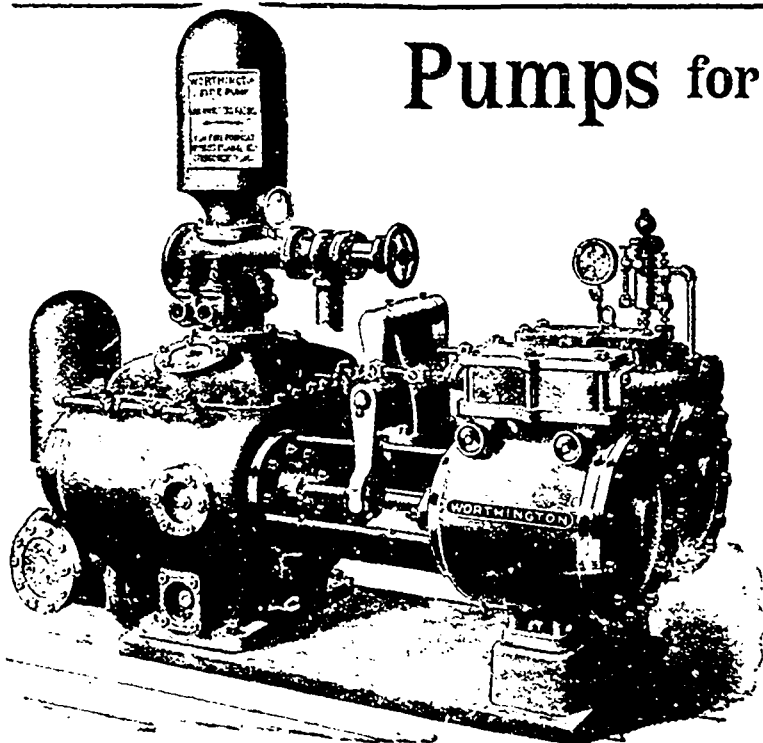
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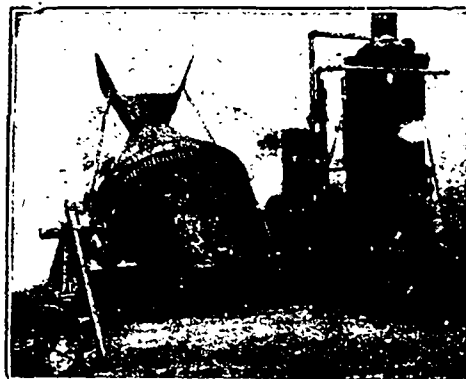


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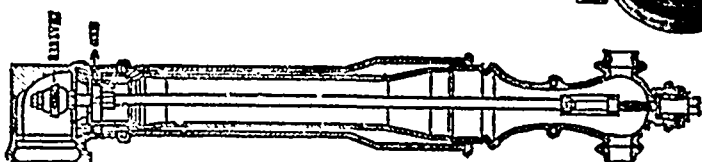
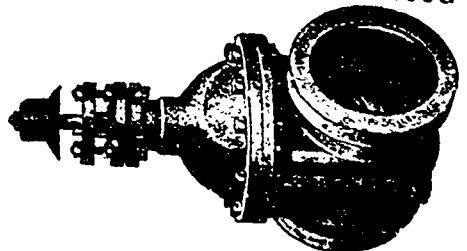
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MUNICIPAL DEPARTMENT

HYDRANTS AND WATER SUPPLY.

(Continued from last issue.)

The practice in the large eastern cities is to have two steamer openings on each hydrant, and as many of the latter as possible; often two at each street intersection and one at alley corners.

This same principle is just as valuable to the smaller towns and should have careful consideration. A pressure of 75 pounds at hydrant or steamer will throw a stream 111 feet high through 100 feet of hose, and only 50 feet when 1,000 feet is required, and in each case with inch nozzles. Larger streams and pressures result in much greater waste for the friction increases as the square of velocity with which the water moves in the hose. Consequently much is gained by having plenty of hydrants, and it should be remembered that while there is not much difference in cost between a section of hose and a hydrant, the latter is practically a permanent investment and will outlast a very large value in hose. How much easier it is to handle a large fire when the lines of hose do not exceed three or four hundred feet!

This matter of the waste of power by friction has resulted in the trial of hose with larger diameters than the standard two and one-half inches, but here we are restricted again by the great weight of the big hose when filled. Any foreman who has put in several hours dragging the standard hose around a fire will not be surprised to learn that the water alone, in fifty feet of two and one-half inch hose, weighs nearly 100 pounds, with the hose and couplings it amounts to nearly 160 pounds. An increase of but quarter of an inch makes an additional weight of 22 pounds of water and a total excess of about one-fifth, while fifty feet of three-inch hose holds 152 pounds of water, a weight nearly equal to that of a section of standard hose filled. Of course, these diameters effect considerable saving in friction, but it is a question whether this is not counterbalanced by the great additional weight and the complication and confusion resulting from couplings of different diameter.

Some of the large city fire departments probably have enough men in the companies to handle such hose, but they complicate matters again by carrying one and one-half inch hose to attach and carry up into buildings. As the friction in these small diameters is simply enormous it is a question whether it would not be just as well—as it is much quicker and simpler—to make the whole line two and one-half inch.

It is worth while knowing that doubling a line of two and one-half inch—siamesing into an outlet—practically decreases its length three-fourths. Or in other words, if a second line be laid alongside one a thousand feet in length and both connected into the nozzle, there is then no more friction than in a single line of 250 feet. This

offers an easy solution of the problem of throwing large streams on fires, and there is no excessive weight to handle at the multitude of smaller 'blazes.'

Who is to impress these matters upon the people and strike for better conditions if not the fire chief? Much is sometimes expected of the insurance men, but if the matter be looked at in its proper light, they are not the ones to agitate for better fire protection except as against conflagrations. The real province of the underwriter is to take risks as he finds them and establish rates accordingly, and he makes the most money when conditions are dangerous—providing the terrible sweeping fire does not come. Besides it is no uncommon thing for his suggestions as to requirements to arouse opposition from those who will not see that the property owner's interests are vastly greater than those of the insurance men.

The chief will find that he is the architect of his own fortunes and whatever improvements are needed can best be advocated and urged by himself. He need not expect any large amount of thanks or even credit for his efforts, especially if he be a volunteer chief, but he can have the satisfaction that comes from duty well performed, whether he be successful or not.

Insist upon good hydrants—there are several reliable patterns—and object to any four-inch diameters unless you must take them with single outlets or for residence districts. Get as many of them as you can, not with the argument of having more streams on fires, for you will have to use good judgment not to put on any more than your mains will well supply, but to save the waste caused by friction and to get better and more effective streams. Impress upon your council the important fact that when water is brought to your line of hose under heavy pressure, this power is too costly and valuable to throw away in the friction of long hose lines. If you have one or more engines do your best to have plenty of places where they may take suction at all times, with the least possible effort to place them in position, and if these be at salt water make sure of getting fresh water for the boilers. In fine, neglect no effort that can render your water supply more available.

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Large index table listing various categories of advertisements such as Architects, Contractors' Plant and Machinery, Mantels, Grates, and Tiles, Roofing Material, etc., with corresponding company names and page numbers.

Table listing prices for various materials like stone, rubble, and cement, with columns for Toronto and Montreal prices.