

CANADIAN CONTRACT RECORD

A WEEKLY JOURNAL OF THE BUILDING INDUSTRY

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.

OCTOBER 29, 1902

No. 37

THE CANADIAN CONTRACT RECORD, PUBLISHED EVERY WEDNESDAY

As an Intermediate Edition of the Canadian Architect and Builder.

Subscription price of the Canadian Architect and Builder" (including "Canadian Contract Record") \$2 per annum, payable in advance

G. H. MORTIMER PUBLISHING COMPANY
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CONFEDERATION LIFE BUILDING, TORONTO
Telephone 2162.

Branch Offices:

Imperial Building, Montreal,
22 Great St. Helen's, London, E. C.
Telephone Main 2295.

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Contractors' Notice

October 18, 1902.

Tenders will be received by the undersigned for the erection of a House of Refuge for the poor of the County of Grey, according to plans and specifications to be seen at the Town Clerk's office in the town of Owen Sound, up to six o'clock p.m. on FRIDAY, SEVENTH DAY OF NOVEMBER, 1902. The lowest of any tender not necessarily accepted. The building will be heated by steam.

CHAS. GORDON,
Chairman House of Refuge Committee.

CITY ENGINEER FOR WINDSOR

WRITTEN APPLICATIONS

for the office of City Engineer for the Municipality of Windsor, Ont., will be received by the undersigned up till noon on SATURDAY, NOVEMBER 1, 1902.

Applicants will please furnish a statement of qualifications for the efficient discharge of the duties of the office, showing particularly their experience in the construction of modern municipal public improvements, and also indicate the amount of salary required.

STEPHEN LUSTED,
City Clerk.

Windsor, Oct 14, 1902.

HARBOR COMMISSIONERS OF MONTREAL

TENDERS FOR TIMBER AND PLANKS

Tenders sealed and endorsed "Tender for Timber" addressed to the undersigned, will be received up to 12 o'clock noon on MONDAY, 3RD NOVEMBER, 1902, for

TIMBER AND PLANKS FOR 1903

Specifications and Blank Tenders may be obtained upon application to Mr. John Kennedy, Chief Engineer, at this office.

The Commissioners reserve the right to reject any or all of the tenders received.

DAVID SEATH,
Secretary-Treasurer.

57 Common Street, Montreal
15th October, 1902.

WOODEN BLOCK PAVEMENT

Tenders will be received by the undersigned up to 12 o'clock noon, of MONDAY, THE 7TH DAY OF NOVEMBER, 1902, for the construction of about 1,050 lineal feet of Wooden Block Pavement (blocks to be chemically treated), about 4 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 description for the work.

The lowest or any tender not necessarily accepted.

W. G. MERRITT,
City Clerk.

Dated October 25th, 1902.

Town of Lindsay

Sealed tenders will be received at the Town Clerk's office up to noon on FRIDAY, NOVEMBER 7TH, 1902, for the construction of about

45,000 Square Feet of Cement Sidewalks

in the Town of Lindsay. Specifications may be seen and form of tender obtained at the office of the Town Clerk.

A marked cheque for five per cent. of the tendered price must accompany each tender, and will be returned when contract is awarded.

The lowest or any tender not necessarily accepted.

JOHN O'REILLY,
Chairman Board of Works.
JAMES M. CHALMERS,
Town Engineer.



SEALED TENDERS, addressed to the undersigned, and endorsed "Tender for Drill Hall, London," will be received at this office until Friday, 7th November, 1902, inclusively, for the construction of a Drill Hall, London, Ont.

Plans and specifications can be seen and form of tender obtained at this Department, and at the office of Messrs. Moore & Henry, Architects, London.

Persons tendering are notified that tenders will not be considered unless made on the form supplied, and signed with their actual signatures.

Each tender must be accompanied by an accepted cheque on a chartered bank, made payable to the Honourable the Minister of Public Works, equal to ten per cent. (10 p.c.) of the amount of the tender, which will be forfeited if the party tendering decline to enter into a contract when called upon to do so, or if he fail to complete the work contracted for. If the tender be not accepted the cheque will be returned.

The Department does not bind itself to accept the lowest or any tender.

By order,
FRED GELINAS,
Secretary.

Department of Public Works,
Ottawa, 17th October, 1902.

Newspapers inserting this advertisement without authority from the Department will not be paid for it.

Debentures for Sale

Sealed tenders will be received by the undersigned up to 5 p.m. on SATURDAY, NOVEMBER 27TH, 1902, for the purchase of \$15,000 Bonus Loan Debentures of the Town of Bracebridge, bearing interest at 4% and repayable in 20 equal annual instalments of \$1,155.14 each, and dated 15th November, 1902, payable at the Bank of Ottawa, Bracebridge.

ALEX. C. SALMON, Town Clerk,
Bracebridge Ont.

CONTRACTS OPEN.

STURGEON FALLS, ONT.—The town is about to issue debentures.

CARBERRY, MAN.—A Methodist church, to cost \$6,000, will be built here.

MILFORD, N. S.—Plans have been completed for new Intercolonial Railway station.

LACHINE, QUE.—It is understood that the Merchants Bank will erect a building here.

THOROLD, ONT.—The council has agreed to loan \$5,000 to a company to establish a paper mill here.

MEDICINE HAT, N. W. T.—Arrangements have been made for the erection of a flour mill here.

ST MARY'S, ONT.—P. S. Armstrong will build an implement office and warehouse on Queen street.

PETROLIA, ONT.—Plans have been completed for a new Salvation Army barracks to be built in this town.

HUNTSVILLE, ONT.—The Huntsville & Bracebridge Tanning Co. are about to build an addition 60x100 feet.

WALLACEBURG, Ont.—The foundations are being put in for Dr. Hays' residence and the new Baptist church.

PORTAGE LA PRAIRIE, MAN.—The School Board has decided to install two furnaces in the east ward school.

DUTTON, ONT.—The erection of a station here will be commenced by the Michigan Central Railroad very shortly.

NEWMARKET, ONT.—L. G. Pearson, of Clarksbu., has purchased property and intends erecting a residence here.

NIAGARA FALLS CENTRE, ONT.—Geo. Pierce has begun the erection of a residence on McGrail avenue.

MATAPEDIA, QUE.—A new Roman Catholic church and a residence for the parish priest will be erected here next spring.

NIAGARA FALLS, ONT.—A proposition has been submitted to the town council looking to the rebuilding of the Clifton House.

BRANTFORD, ONT.—The Pratt-Letchworth Malleable Iron Co. contemplate the erection of a large addition to their premises.

GUELPH, ONT.—Tenders are being taken on the revised plans for the McDonald Institute Building at the Ontario Agricultural College.

STRATHROY, ONT.—The town contemplates the establishment of a waterworks system. A by-law to provide funds will likely be submitted in January.

KINGSVILLE, ONT.—Pitts, Wigg & Co. have just commenced the erection of a new tobacco factory, four storeys, stone foundation, iron roof, 150x42 feet.

PEMBROKE, ONT.—George Gordon has purchased property at the corner of Pembroke and Commercial streets on which he will likely build a fine residence.

ST. JOHN, N. B.—The sum of \$48,000 has been subscribed towards the proposed Y. M. C. A. building, but work cannot be commenced until \$60,000 is secured.

SAULT STE. MARIE, ONT.—The Board of Trade have received a communication from the Wausaw Box Co., of Wausaw, Wis., regarding a suitable location here for a box factory.

OWEN SOUND, ONT.—The Grey & Bruce Portland Cement Co. will enlarge their plant this winter, installing another boiler and rotary, and lengthening the rotaries already in the building.

SYDNEY, N. S. The local government has entered into a contract with the company operating at Mabou for the construction of thirty miles of railway to Orangedale. D. Chisholm, of Margaree, is interested.

NEW WESTMINSTER, B. C.—The British Columbia Electric Railway Co. intend building an electric road to Ladner. Work will likely be commenced next spring and be completed by the end of the year.

NELSON, B. C.—The Dominion Government is asking for tenders up to 13th November for heating apparatus in public building here. Plans on application to J. A. McDonald, Clerk of Works, Nelson, or William Henderson, Victoria.

LINDSAY, ONT.—Toronto and Lindsay capitalists have acquired Goose Lake, where it is proposed to establish cement works.—Tenders will be received by J. R. McNeillie up to Friday, 31st inst., for steam heating of Simpson Hotel.

TORONTO JUNCTION, ONT.—The trustees of School Section No. 22, York, have decided to build an addition to the Elizabeth street school. A. Gilchrist will receive tenders by November 3rd for proposed addition.

SYDNEY, N. S.—The Canadian Bank of Commerce has bonded the block on Dorchester street, from Charlotte street to the Esplanade. It is understood to be the intention of the bank to build a business block on the property and open a branch here.

LONDON, ONT.—Herbert Matthews, architect, is taking tenders on a new warehouse for the T. F. Kingsmill Company.—G. de C. O'Grady, manager of the Bank of Commerce, is interesting himself in the proposal to build a new rink in this city. The location is likely to be on Piccadilly street.

WALKERVILLE, ONT.—In connection with the expensive church which they propose to erect here, Messrs. Hiram Walker & Sons would be pleased to receive from Canadian manufacturers samples of face brick. The bricks must not be pressed or white bricks, but may be of any other kind or color. A paving brick of suitable color would be considered especially suitable.

VICTORIA, B. C.—The Department of Public Works is preparing plans for

new school house at Esquimalt, High School at Vernon, and court house at Ladysmith.—Local architects are preparing plans for several cottages to be erected on the lots known as "The Gridiron," at the junction of Douglas and Government streets, and it is understood that new buildings will be erected on the Finlayson Estate property.

ST. THOMAS, ONT.—Thomas Bros., who are building a woodenware factory here, will shortly commence the erection of a broom warehouse, dry kiln and saw mill.—The city council will be asked to grant an additional \$7,000 to complete the Collegiate Institute.—The Weidman Co., of Southwold Station, purpose moving their stove and heading factory to a new location, and an effort will be made to have them locate in this city.

HAMILTON, ONT.—The buildings at corner of Feiguson avenue and Barton streets are being removed to make room for the new G. T. R. freight shed.—The by-law to raise \$98,000 for good roads was carried in Wentworth county last week by a large majority.—The city has received a draft of \$5,000 from some unknown person, \$3,000 of which is to be used for the erection of a wing to the House of Refuge.—George H. Milne has been granted a permit for two brick dwellings on Markland street, between Queen and Hess streets, to cost \$3,000.

FREDERICTON, N. B.—The Department of Public Works is asking for tenders by November 17th for masonry sub-structure and approaches for the new steel bridge to be erected at the mouth of the Oromocto river. Plans at above Department and at post-office at Oromocto. The Department is also taking tenders up to November 17th for rebuilding Palmer's low water wharf in parish of Kars, King's county, and repairing high and low water wharves at Gagetown, Queen's county.—Hilyard Bros. will next spring remove their saw mill from French Lake to the mouth of the Oromocto River.

VANCOUVER, B. C.—It is understood that Theodore Ludgate has decided to erect a saw mill at Arrow Head, and that Angus McLeod, of Orillia, Ont., will be associated with him.—Several large subscriptions have been received towards the erection of a new Y. M. C. A. building, which will likely be commenced next year.—J. G. Woods and others purpose conducting extensive lumbering operations in the Capilano district.—J. Mason & Co. recently sold three lots on Westminster avenue, near Hastings street, on which business blocks will shortly be erected.

COLLINGWOOD, ONT.—A. D. Knight, town treasurer, desires tenders by November 12th for purchase of the following debentures: \$9,000 twenty year 4 per cent.; \$10,000 thirty year 4½ per cent.; \$5,200 twenty year 4½ per cent.; \$8,400 thirty year 4 per cent.; \$3,400 twenty year 4½ per cent.; \$1,150 twenty year 4½ per cent.—The council have under consideration a scheme to acquire the water front and land at present owned by Toner & Gregory and to extend the town wharf. In connection with the scheme it is proposed by the Government to build a dock to cost about \$60,000, the expenditure for which has already been approved of by the Minister of Public Works.

OTTAWA, ONT.—Plans for the new St. George's hall to be erected on Bank street have been completed.—The congregation of Erskine church have decided to build a manse, at a cost of \$5,000. Contracts will be awarded immediately. Rev. A. E. Mitchell is pastor.—F. Gelin, secretary Department of Public Works, invites tenders up to November

7th for the construction of four ice piers at Richmond, Que. Plans at office of P. Beland, Clerk of Works, post office, Quebec, and on application to postmaster at Richmond.—Mayor Cook and the engineer of the Ottawa Improvement Commission had a conference last week with the Deputy Minister of Railways and Canals in respect to the Elgin street subway. The work will shortly be commenced, as it is to be completed by July 1st next.—It is probable that an addition will be built to St. Patrick's asylum.

WINNIPEG, MAN.—It is understood that the C. P. R. are having plans prepared for new depot to be built in this city.—The City Council has instructed the Library Committee to secure plans for new library building. The construction of the following works have been recommended: Asphalt pavement on George avenue, from Lily street to transfer railway right-of-way, cost \$8,720; macadam pavement on Colony street, from Proud street to Assiniboine river, cost \$1,412; sewer on McMillan avenue, cost \$1,720, and on Magnus avenue, cost \$2,724; granolithic sidewalk on portion of George street, cost \$1,825, and Ross avenue, cost \$220. Artificial stone walks will be constructed by day labor on the following streets: West side Main street, Sutherland avenue to Selkirk avenue, west side King street, from lane north of Market avenue to James avenue, and on east side of King street, from Market avenue to James avenue, total cost \$6,334.—The Western Canada Portland Cement Co., Limited, has applied for incorporation, with capital of \$1,000,000 and head office in this city. The applicants include W. F. Cowham, managing director of the Peninsular Portland Cement Co., Jackson, Mich.; David Jamieson, of Durham, Ont., and P. W. Stanhope, manager National Portland Cement Co., of Toronto.—Stobart, Sons & Co. have instructed James Cadham, architect, to prepare plans for a warehouse to be built on corner of McDermot avenue and King street. It will be built entirely of native stone and will be commenced early in the spring.—The Frost Wire Fence Co., of Welland, Ont., are considering the establishment of a large factory here.—John A. Davidson, Provincial Treasurer, is prepared to receive offers up to November 15th for purchase of \$101,000 drainage debentures.—Strang & Company intend building a new warehouse on Fort street.—Montgomery Bros., of the Winnipeg Hotel, have decided on the erection early next season of a large extension and additional storeys to the entire building.—It is understood that plans have been prepared for an apartment building to be built on the corner of Edmonton street and Portage avenue by Minneapolis and local capitalists.

MONTREAL, QUE.—A deputation of aldermen waited upon the Minister of Public Works last week and requested that the Legislature consent to expropriating a considerable extent of property in

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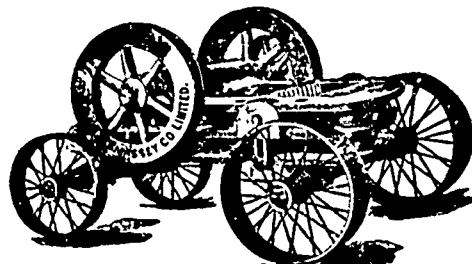
order to extend the court house.—It is proposed to construct sewers on the following streets. Ayiwin street, from end of existing street, north of St. Catherine street, to Strathcona street; Davidson street, from end of existing sewer northward 100 feet, and from end of existing sewer south of Ontario street, a distance of 200 feet.—If the city does not decide to erect a contagious diseases hospital without delay, certain members of the council will ask that the Notre Dame Hospital and the General Hospital be allowed to build wings to these institutions for the purpose of treating contagious diseases.—The New Golf and Country Club has purchased land for golf links in the vicinity of the Canadian Hunt Club property, and a meeting will be held this week to consider the erection of a club house.—A canvas will be begun immediately for subscriptions with which to build a gymnasium for McGill University.—Building permits have been granted as follows: C. E. Joslin, two three-storey houses, 24-26 Bimoral street, cost \$9,000; W. & A. Mireault, two three-storey houses, 18 Jonette street, cost \$6,000; Miss J. Boyer, one-storey house and store, 314 Rivard street, cost \$1,300; Lyman, Sons & Co., three-storey factory, 46 Prince street, cost \$9,000; Jos. W. Smith, two-storey house, Pajneau Road, cost \$1,400; Jos. Giroux, two-storey house, Frontenac street, cost \$1,600; Canadian Sugar Refining Co., one-storey tank house, St. Patrick street, near Shearer, cost \$1,200; H. S. Holt, alterations to two storey house, 297 Upper Stanley street, cost \$2,000; Mrs. Arthur Fisher, alterations to three storey house and store, 255 St. James street, cost \$3,000.

TORONTO, ONT. — Tenders are invited by the Board of Control up to October 31st for metallic fittings required for the vault in the registry office, Richmond street west.—While no announcement has yet been made, it is understood that the new building to be erected by the promoters of the Metropolitan Bank will be located on the corner of King and Jordan streets, extending east to Michie's store and south to Melinda street.—Work will be commenced immediately on proposed improvements to Woodbine race course. The course will be moved southward some 100 feet.—Several new residences are about to be erected in North Toronto. J. F. C. Ussher, of this city, will build on Victoria avenue. S. Thorn has purchased four acres fronting on same street and has commenced the erection of a residence. C. Durand is reported to have in view the erection of a residence.—In connection with the recent purchase of the Parliament buildings property by the Grand Trunk Railway, it is again rumored that it is proposed to utilize it for a new station and to use the present station as a freight depot.—The British Canadian Pulp Company, Limited, has been incorporated, with capital of \$500,000 and head office in this city.

S. C. Smoke, of Watson, Smoke & Smith, Barristers, and J. J. Warren, barrister, are interested.—The following works were recommended by the city engineer in his last report: Cedar block pavement, Ossington avenue, from Bloor to north city limit, cost \$9,150; brick pavement, Francis street, from King to Adelaide, cost \$2,090. Cement sidewalks, King street, from Frederick to Sherbourne, cost \$696; King street, from Sherbourne to Berkeley, cost \$2,793; Sussex avenue, Major to Brunswick, cost \$226; Beverley street, Cecil to College, cost \$549; Harbor street, Palmerston to Manning, cost \$865; Ossington ave, college to Bloor, cost \$2,108; Francis street, from King to Adelaide, \$458; Louisa street, from a point 119 feet west of Yonge to Terauley, cost \$520; Denison avenue, from Queen to Bellevue place, cost \$2,742; Northumberland street, from Delaware to Duvercourt, cost \$415; Woolsley street, from Markham to Palmerston, \$359. Sewer on Pape avenue, cost \$1,200.—Tenders are wanted for erection of ice house at Niagara Falls, Ont. Plans at office of Reinhardt & Co., Mark street, city.—The Board of Control has recommended that the council submit a by-law to the ratepayers to raise \$2,385,

000 for the construction of a system of sewage disposal. The city engineer estimates the cost of discharging the sewage into Lake Ontario at Scarborough Heights at \$1,750,000, and that of a system of purification by septic tanks and Cartena beds on a farm at Danforth road at \$2,385,000, and recommends that the larger sum be asked for.—Building permits have been granted as follows: O'Keefe Frewing Co., three storey addition and additional storey to building, corner Elizabeth and Queen streets, cost \$5,500; Wickett & Craig, two-storey addition to laundry, corner Front and Sackville street, cost \$1,200; F. Baumhard, pair houses, Gladstone avenue, near Dundas street, cost \$4,000; Charles Parker, pair houses, 53 and 55 Boswell avenue, cost \$4,000; John R. Carter, pair houses, 96 and 98 Walker avenue, cost \$5,000; H. M. Os-

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EMILIUS JARVIS & CO. (Toronto Stock Exchange) 19-21 King St. West, TORONTO, Ont.

ling, brick and stone stable and coach house, 137 Isabella street, cost \$1,300; Thomas Moore, two-storey and attic stone and brick dwelling, 51 Walmer road, cost \$4,000; William Burnell, pair brick and rough-cast dwellings, 107 109 Victor avenue, cost \$2,400; American-Abel Engine Co., one-storey brick addition to foundry, Abel street, cost \$11,000; C. R. Rundell, two-storey and attic brick dwelling, north side Elm avenue, near Glen road, cost \$4,500; York County Loan and Savings Co., pair three-storey brick and stone stores, corner Roncesvalles and Fermanagh avenue, cost \$18,000; E. A. Drummer, pair two storey and attic brick dwellings, 153-155 Spadina avenue, cost \$7,000; W. J. Hewitt, pair two storey and attic brick dwellings, north side Langley avenue, near Victor avenue, cost \$4,000; Toronto Glass Mfg. Co., five-storey stone and brick factory, 98 and 100 Lombard street, cost \$30,000; F. Sanderson, residence corner Cluny avenue and Crescent street, cost \$8,000; H. M. Death, pair houses, 33 and 35 Concord avenue, cost \$4,000; G. Frederick Elliott, building, 20 Pendrith street, cost \$1,100; R. D. Malcolm, brick and stone dwelling, South Drive, Rosedale, cost \$4,500; T. J. Madill, brick dwelling, 45 Somerville avenue, cost \$2,300; E. A. Drummer, four dwellings, Campbell avenue, cost \$6,000; J. & F. H. Hortop, warehouse, Alma avenue, near Dufferin street, cost \$1,000; G. McDermott, pair dwellings, 27 and 29 Smith street, cost \$2,800; Emily C. Cairns, pair dwellings, College street, near Brock avenue, cost \$4,000; J. Wheeler, three pairs residences, Smith street, near Broadview avenue, cost \$9,000.

FIRES.

Grocery store of J. E. Scriven at Tilbury, Ont., damaged to extent of \$4,000.—Saw mill of Jardine Bros. at Rexton (formerly Kingston), Kent county, N. B. totally destroyed.—Residence of Horace Yeomans at Belleville, Ont., totally destroyed, loss \$2,000.—Liquor warehouse of L. A. Wilson & Co., St. James street, Montreal, damaged to extent of \$15,000.—Fairview Hotel at Fairview, B. C., owned by the Fairview Corporation.

CONTRACTS AWARDED.

BRANTFORD, ONT.—New Library building: Shultz Bros., successful tenderers.

MONTREAL, QUE.—New building for high level pumping station: McDonald, Ouimet & Co., successful tend-

erers, \$4,275.75.—Reconstructing gates of Lachine canal: Quinlan, Robertson & Coulson, this city, successful tenderers.

TORONTO JUNCTION, ONT.—Addition to factory for Rudd Harness Co.: Ontario Paving & Construction Co., contractors.

LISTOWEL, ONT.—Addition to Listowel Furniture Co.'s factory: Stone and brick work, Krutzer Bros.; carpenter work Bamford Bros.

VICTORIA, B. C.—Two-storey brick building for Mrs. Marion Allen. Architect, Thomas Hooper; contractor, George Snider; cost \$4,000.

STURGEON FALLS, ONT.—Five tenders were submitted for laying waterworks pipes, W. F. Grant & Co., of Toronto, being successful, at \$3,190.

GUELPH, ONT.—Mill for Page-Hersey Co. Carpenter work, Stewart & Hughes; piers, Shaw & Dunbar; roofing, Preston Metal Roofing Co. Other contracts will be let latter.

LONDON, ONT.—Herbert Matthews, architect, has let the contract to I. Steele for the whole of the work to be done for two cottages to be erected for M. Morrissey, of this city.

WINNIPEG, MAN.—Cedar block pavement on College avenue, Main street to Slater street: E. Doidge, successful tenderer, \$5,847.—Brass goods for Water Department: Contract divided between

(Continued on page 6.)

DEBENTURES

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

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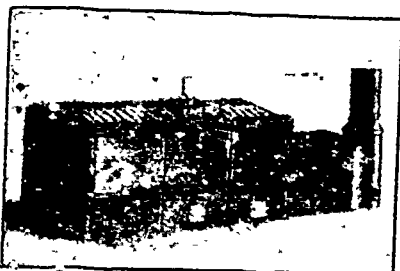
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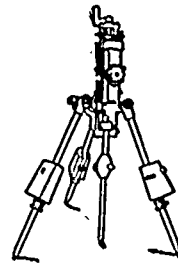
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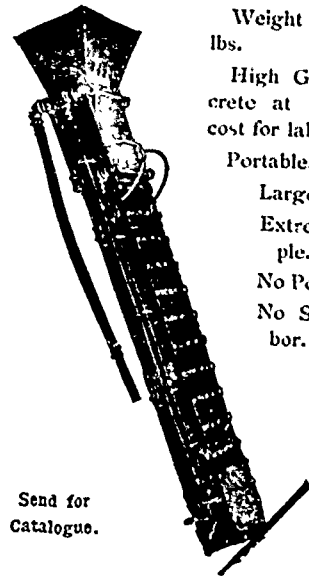
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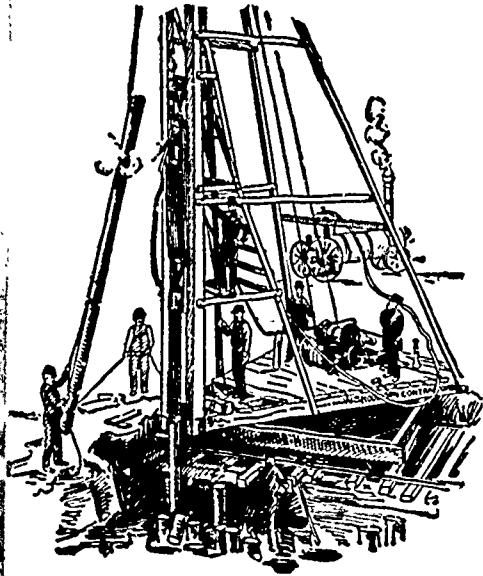
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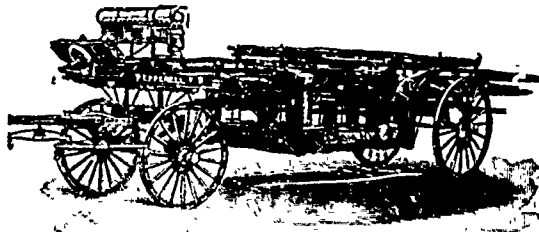
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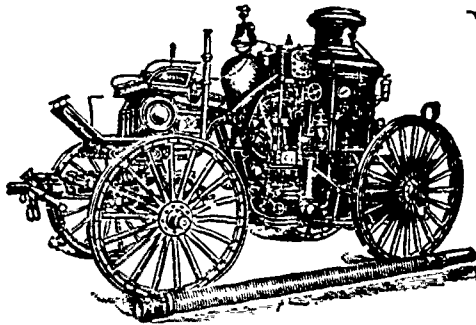
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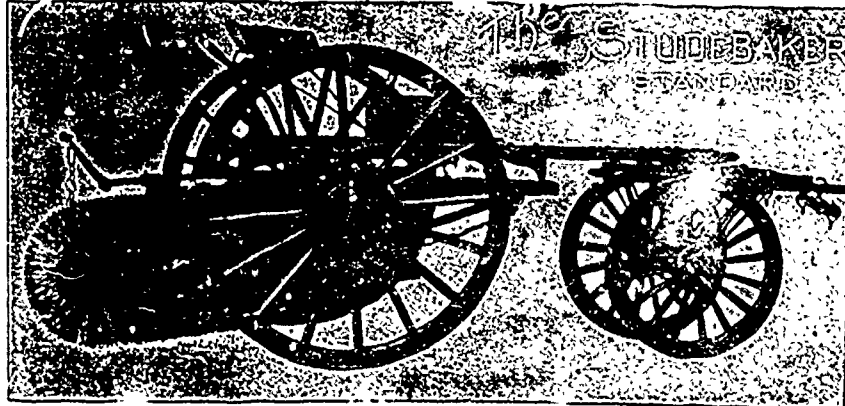
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TORONTO, ONT.—The Polson Iron Works, this city, have been awarded the contract for building two lightships for the lower St. Lawrence. The contract represents a consideration of about \$250,000.

ALVINSTON, ONT.—The contract for erection of two steel highway bridges over Hardy Creek has been let to the Port Huron & Sarnia Bridge Co.—Brooke township council has let the contract for repairs to the 12th line drain outlet to John Hollingshead, at \$2,149.99.

NIAGARA FALLS, ONT.—For construction of wing to public school the following tenders were received: Woodwork—Jas. Harriman, \$3,120, N. F. Planing Mill Co., \$2,500 (accepted), Waugh & Robertson, \$2,854. Masonry—John T. Blair, \$3,300 (accepted), Newman Bros., \$3,200. Painting, etc.—W. J. Stein, \$173 (accepted), J. A. Vander-sluis, \$330, Trelford & Pickard, \$204.70. Sheet Metal and Sewer—J. T. Henderson, \$119 (accepted), Cole & McMurray, \$134, G. H. Clark & Co., \$138.

Mr. J. F. Connolly will continue the extensive contracting business carried on by the late firm of Clarke & Connolly, Toronto. He is now completing the water and sewerage system for the town of Newcastle, N. B.

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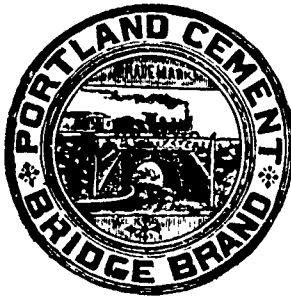
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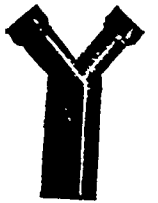
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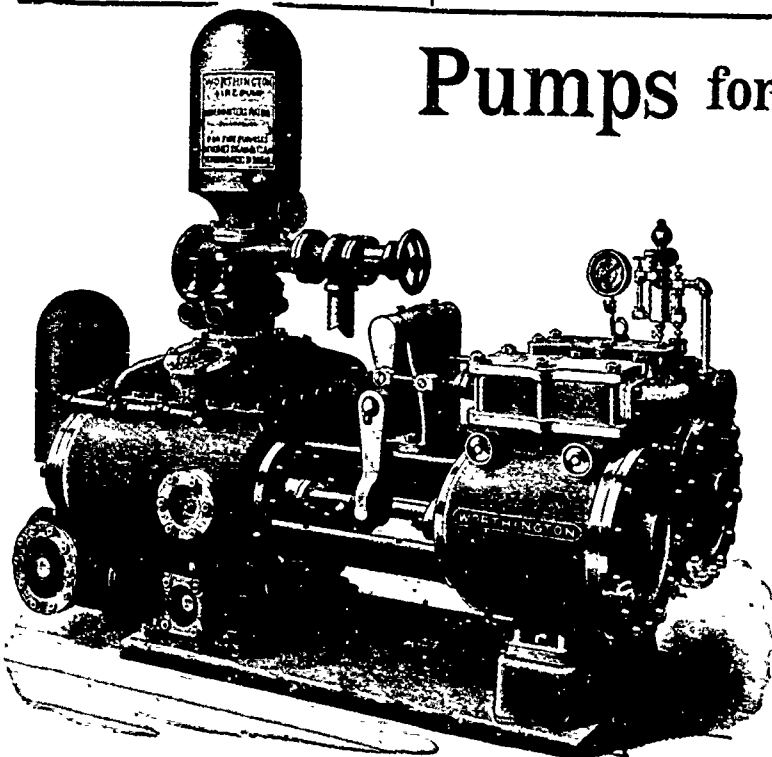
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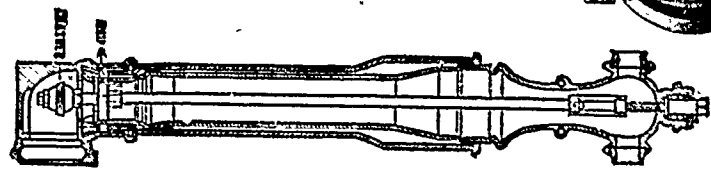
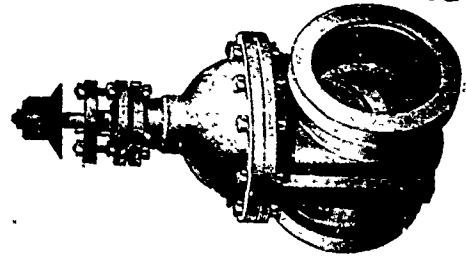
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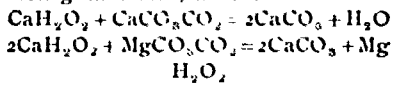


MUNICIPAL DEPARTMENT

THE MUNICIPAL WATER-SOFTENING PLANT AT WINNIPEG.

(Continued from last week.)

The chemical changes which take place in softening are stated by the Pittsburg Testing Laboratory as follows :



It is evident from the above that none of the lime used remains in the water, but that it separates as carbonate, bringing with it the previously hardening substances, the carbonates of lime and magnesium.

In carrying out this process on a large scale, the arrangement is as follows: The hard water is delivered through a 16-inch pipe to a weir box or measuring arrangement at a point about 30 feet above the prairie level. Here the water divides automatically into two parts, always in the same ratio to each other. The smaller part is mixed continuously with cream of lime, and made into lime water, which afterwards mixes with the hard water, and softens it in the way described above. As the making of the lime water requires a little time, it is so arranged that the water just starting to be made into lime water forces forward in a constant stream, to mix with the hard water, an exactly equivalent amount of lime water already formed.

In other words, the water to be made into lime water, as soon as it falls over the weir, displaces lime water already made. Mixed with cream of lime, it flows in at the bottom of the lime water tanks, where it rises steadily and clarifies, and eventually flows forward to mix with the hard water. There is thus a steady stream of clarified lime water being forced out of the lime water tanks by the water which is entering below, and the amount of this stream is always proportional to the hard water which it is to soften.

It is necessary, however, that the operatives take care that the lime water is always of the proper strength. This they ascertain by chemical tests. Measured samples of lime water are compared with a standard acid solution. If found under strength, cream of lime is supplied at a higher rate. If found over strength, the supply of cream of lime is diminished. Two gauges are on the side of the weir box. One shows how much hard water is being pumped to the plant. The other shows how much cream of lime is being used for making lime water. The amounts shown on the two gauges must be kept in a simple ratio to each other. When this is done, very little testing is required.

The apparatus for preparing and pumping the lime cream consist of a slaking bed, a mixing well and a ball valve pump. The speed of the pump is regulated from the operating platform.

The lime water is mixed thoroughly with the hard water in a baffle channel. Thence

the turbid soft water flows to the bottom of two large tanks, where it deposits nearly all of its suspended matter or sludge.

Rising slowly to the top, it flows off through floating discharge pipes to the filters, which give it its final clarification. A portion of the softened water is pumped from the top of the tanks to carbonating boxes, where it meets purified carbonic acid gas and absorbs it. This carbonated water flows into the floating discharge pipes, and passes with the rest of the softened water to the filters.

There are seven filters, each one containing about 1,450 square feet of filter cloth surface. Each filter runs about 24 hours. It is then opened and the cloths are removed, washed and replaced.

The softened and filtered water passes into a 300,000 gallon service reservoir, whence it is pumped to the city.

On account of the high price of good lime in Winnipeg, the recovery of the waste lime from the softening process is being seriously considered. This would require a plant for purifying the sludge by removing the magnesia. Presses, drying apparatus and special kilns would also be needed. It would be possible, however, to make high-grade lime for about one-third of what it is now costing.

LEGAL.

Mr. Rines, the Corporation Counsel or City Solicitor of New York, has expressed the opinion that it is illegal for municipal authorities to stipulate in their contracts that only union labor shall be employed on their works. Such a stipulation, he says, establishes an illegal discrimination between different classes of citizens, while at the same time preventing legitimate competition among contractors.

Mr. Hutcheon, city engineer of Guelph, Ont., has tendered his resignation.

The septic tank sewage system installed about two years ago by the city of Vancouver, B.C., has proved so successful that the officers of several municipalities in the near-by States have recommended the introduction of the septic tanks in their cities. There are three tanks, located at different points in the city. One of these disposes of the sewage of a district having a population of 5,000 people.

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Table with columns for stone types (Common Rubble, Large flat Rubble, Foundation Blocks, Granite, Marble, etc.) and prices in Toronto and Montreal.

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In the "Canadian Architect and Builder."

Index listing various categories such as Architects, Contractors' Plant and Machinery, Mantels, Grates, and Tiles, Roofing Material, etc., with corresponding page numbers.

Large table listing various building materials and their prices in Toronto and Montreal, including items like sandstone, granite, brick, and various types of stone.