

# 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.*

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**THE CANADIAN CONTRACT RECORD,**  
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**BUSINESS NOTES.**

Howard Swaggles, of Harrow, Ont., has purchased the plumbing, roofing and tinsmithing business of Mr. Rumball, of South Woodilee.

The Albert Manufacturing Company, manufacturers of wall plaster, Hillsborough, N.B., are making improvements to their plant and installing two new boilers.

The Meaford Manufacturing Company, of Meaford, Ont., have their new factory in partial operation. It is a three-storey building 200 x 75 feet. They are turning out a large quantity of furniture, including tables, sideboards, bedroom suites and desks.

The Seaman-Kent Manufacturing Company expect to have their new plant at Meaford, Ont., fully completed at an early date. Their factory is 180 x 255 feet and is equipped with one of the largest single dry kilns in Canada. The company are at present manufacturing hardwood flooring, store fittings, interior finish, door and window sashes, screen frames, tripods and photo finishing frames.

Rapid progress is being made on the works of the Colonial Portland Cement Co. at Wiarton, Ont., the machine shop, blacksmith shop, grinding building, engine room and boiler room being well advanced. The machinery is of the most modern type and the plant when completed is expected to turn out cement at a low cost. Inglis & Sons, of Toronto, furnished the boilers, and Reid & Kilmer, of Hamilton, the electrical equipment. The company is capitalized at \$800,000, of which \$500,000 is common stock and the balance preferred.

## CITY OF REGINA WATER WORKS SYSTEM

Sealed tenders will be received by the undersigned up to MONDAY THE 23RD DAY OF NOVEMBER 1903, at 9 p. m., for the following sections of work jointly or separately:

**1. DAM AND RESERVOIR**

Earth Dam 150 feet long on top by 18 feet clear depth at centre, with concrete core wall, waste weir and wing walls.  
Clearing and cleaning out bottom and sides of reservoir.

**2. WATER SUPPLY CONDUIT**

Excavation and laying during the present winter the following 18" vitrified clay pipe which will be furnished by the Corporation: 15,500 lineal feet in cutting varying from 10 to 20 feet deep, including Gate House and Manholes.

**3. GRAVITATION SUPPLY MAIN**

Excavation and laying the cast iron supply main during the present winter or next fall through partly cultivated farmlands to a depth averaging 6 1/2 feet, also brick and concrete receiving basin as follows:—

1500 lineal feet 12" C. I. piping 70 lb. per ft.	
10000 " " 10" " " 55	
1-12" Gate Valve with C. I. Boxing.	
20 " " " " " " " "	
1 Brick or Concrete Receiving Basin 25 ft. diameter x 15 ft. deep.	

The above cast iron pipes and valves are to be furnished by the Corporation to the contractors on the cars at railway depot, but if preferred by any contractors this may be included in the tender.

Contractors will state what difference in price, if any, provided this work was done during the fall 1904 instead of the present winter.

**4. DISTRIBUTION STREET MAINS**

Excavation and laying the following cast iron piping and valves, hydrants, etc., in trenches averaging 7 1/2 feet deep:—

3,000 lineal ft. 10" cast iron pipe 65 lb. per ft.	
12,000 " " 8" " " 45 "	
8,000 " " 6" " " 30 "	
10 tons of special castings	
30 fire hydrants	
1 10" automatic swinging check valve with chamber	
4 10" gate valves with C.I. boxing	
13 8" " " " "	
8 6" " " " "	

The above cast iron pipes, special valves and hydrants only to be furnished by the Corporation, but if preferred by any contractor they may be included in the tender.

**Important Notice:**

All work must be fully completed for use to the satisfaction of the engineer by the end of October, 1904.

Plans and specifications can be seen and tender forms obtained at Regina and at the head office of the Consulting Chief Engineer, JOHN GALT, C.E., M.E., Toronto, Ont.

Bids must be accompanied by certified bank cheque payable to the Corporation of the City of Regina for five per cent. of Tender, which will be retained as security for the proper execution and fulfilment of contract.

The lowest or any tender not necessarily accepted.

JAMES BALFOUR,  
Secretary Treasurer, Regina, Assa., N.W.T.

**CONTRACTS OPEN.**

DEBEC, N. B.—H. L. Bailey has purchased a building lot.

HANOVER, ONT.—An addition to the public school is contemplated.

ADELAIDE, ONT.—A new Roman Catholic church will be built here.

FORT FRANCES, ONT.—R. Phair intends installing a brick making plant.

WINCHESTER, ONT.—The congregation of St. Matthias church have decided to build a rectory.

CALGARY, N. W. T.—It is said that the International Harvester Co. purpose building a large warehouse here.

ALMONTE, ONT.—Bids received by L. Coulter, town clerk, up to 6 p. m. of 23rd inst. for \$5,000 debentures.

WINGHAM, ONT.—When the electric light plant is taken over by the town council improvements will be made thereto.

STE. CUNEGONDE, QUE.—The ratepayers have again petitioned the Government asking for a new post office building.

RENFREW, ONT.—A committee has been appointed to report upon the question of operating the waterworks by electricity.

NELSON, B. C.—Goldrick & Lammers are asking for a free site on condition that they build a saw mill here to cost \$10,000.

MEAFORD, ONT.—James Randle is making arrangements for the erection of a new brick building to replace the one destroyed by fire.

GOULD, QUE.—The ratepayers have sanctioned the granting of a bonus to Cowan & Mooney to erect a creamery and saw mill here.

CAMBORNE, B.C.—The Camborne Water Supply Company has applied for incorporation to provide a water supply for this village.

HALIFAX, N. S.—The Intercolonial Railway will receive tenders up to 21st inst. for submarine blasting and dredging in the dock at this city.

KINGSVILLE, ONT.—The council have decided to postpone until next spring the proposed extension of the waterworks intake pipe.

QUEBEC, QUE.—The Millstream Lumber Co. have decided to build their mill at Metapedia, although the head office will be in this city.

GLACE BAY, N.S.—Steps are being taken to secure a site and erect a Y. M. C. A. building, to cost about \$20,000. Particulars from Harry Bruce.

EDMONTON, N.W.T.—A proposition has been submitted to the council for the establishment of a linen factory here, to include a brick building 500x100 feet.

**MORRISSEY, B. C.**—It is rumored that the Crow's Nest Southern Railway Co. will make its terminus here and erect a depot and freight sheds.

**TORONTO JUNCTION, ONT.**—T. Wright has commenced excavating for two houses near the corner of Clendennan and Roland streets, to cost about \$3,000 each.

**CLINTON, ONT.**—The proposed addition to the House of Refuge will be 48x60 feet, two-stories and basement, white brick with slate roof, cost from \$8,000 to \$10,000.

**WATERLOO, ONT.**—It is proposed to submit a by-law to the ratepayers to raise \$10,000 for waterworks improvements, including another pump and extension of mains.

**BERLIN, ONT.**—A by-law will be submitted to the ratepayers at the municipal elections authorizing the council to issue debentures for erection of new market buildings.

**PARRSBORO, N. S.**—The Cumberland Railway & Coal Co. propose extending their road to East Bay and erecting a deep water pier with modern shipping appliances.

**WOODSTOCK, N. B.**—William Craddock intends removing his wood-turning plant from Upper Woodstock to this town. A new building will be erected and new machinery installed.

**CARBERRY, MAN.**—Daniel McLean, secretary of the School District of Summerville, No. 60, will receive bids up to November 20th for purchase of \$15,000 5 per cent. debentures.

**BRANTFORD, ONT.**—The Collegiate Institute Board have decided to build an addition to the school.—The Brantford Carriage Co. has commenced work on a brick warehouse to cost \$6,400.

**PORTAGE LA PRAIRIE, MAN.**—A by-law to provide for water works and sewerage systems will be submitted to the ratepayers in December. The cost will be in the neighborhood of \$170,000.

**NIAGARA FALLS, ONT.**—The Hussey Mower Co., of Indiana, have entered into an agreement with the town council to establish a branch of their business in the old metal works factory.

**WIARTON, ONT.**—W. J. Ferguson, town clerk, will receive tenders up to 30th inst. for construction of the unfinished portion of the waterworks system. Plans at office of R. McDowall, C. E.

**CHARLOTTETOWN, P. E. I.**—A meeting of citizens was held last week to discuss the building of a first-class hotel and a committee was appointed to forward the scheme. Mayor Warburton is one of the promoters.

**REGINA, N.W.T.**—Plans have been completed for the warehouse to be built here for Frost & Wood.—McCollum, Hill & Co. want tenders by December 15th for erection of a 15-roomed brick house, to be completed by June 1st, 1904.

**ORILLIA, ONT.**—Cavana & Watson have purchased property at the corner of Mississauga and West streets and will likely erect a block of stores.—Abraham Warner and John Newberry have each purchased building lots within the past week.

**ST. LOUIS, QUE.**—At last meeting of council it was announced that the request of the citizens for new post office had been granted by the Government. The building will be erected on St. Lawrence street and will cost about \$20,000 exclusive of site.

**FREDERICTON, N. B.**—W. Harrison, of the Provincial Public Works Department, is making surveys for a new bridge at the head of the first Loch

Lomond, also for the Mispec and Black River bridges. Plans will be prepared and tenders invited this winter.

**MACLEOD, N.W.T.**—The Dominion Government is asking for tenders up to 25th inst. for installing hot water heating apparatus in the court house at this place. Plans on application to C. George, Macleod, J. S. Cyr, Clerk of Works, Winnipeg, Paul Paradis, resident engineer, Calgary, and at the Department of Public Works, Ottawa.

**PORT ARTHUR, ONT.**—The Algoma Steam Laundry Co. propose erecting a \$10,000 laundry building on the corner of Cooke and St. Paul streets. Mr. McComber is solicitor for the company.—Vigars & Co. have made a request for the lease of certain property as a mill site.—It is said that the Canadian Pacific Railway intend to further increase their elevator capacity next spring.

**PRESCOTT, ONT.**—The Dominion Government have purchased the premises of the defunct Prescott Brewing & Malting Co., part of which will be used as machine shops and store rooms, but other buildings will be erected, as it is the intention to remove the gas buoy works from Morrisburg to this place. A large pier, breakwater and dry dock will be constructed.

**WOODSTOCK, ONT.**—It is said that the Canada Furniture Manufacturers, Limited, will erect a new factory here for the manufacture of furniture for export. Steps have been taken to form a building association with the object of erecting a large number of houses for the workmen employed by the above named company.

**ST. JOHN, N.B.**—Architect Mitchell has been asked by Rev. H. H. Gillies to prepare plans for a new Anglican church at the head of the Washademoak.—Mr. McLean, naval architect, of New York, has completed plans for the new steamer for this city, and tenders for building same will be invited within a few days. The steamer will be 140 feet in length and will contain modern equipment, including an electric light plant.

**WINNIPEG, MAN.**—The Railway Committee of the Privy Council have approved of the application of the Canadian Pacific Railway for authority to construct a branch from Fonseca street southerly parallel to Princess street.—The city council have decided to submit a by-law to the ratepayers to raise \$1,000,000 to develop the Assiniboine water power and to establish a municipal gas plant.—The congregation of St. Luke's church have decided to build a new edifice. Rev. T. W. Savery is pastor.

**ROSSLAND, B. C.**—The Rossland Power Company's concentrator near Trail will be on an extensive scale. The plant will consist of two principal structures, a concentrator 186 feet long, 60 feet wide and 90 feet high, and a tailings building 109 feet long, 72 feet wide and 60 feet high.—The Rossland Power Co. have obtained approval of their scheme to generate power. The

cost of the plant is estimated at \$100,000. The work is to be commenced by December 5th.

**VICTORIA, B.C.**—A party of eastern capitalists have bonded all the Crown land from Cape Beale to Saritas Bay, on the south shores of Barclay Sound. They contemplate building saw and pulp mills, also a tram railroad from Saritas to Duncans, to be operated by electricity. A water power at Saritas will be developed.—J. E. Marks has purchased a lot on Stanley avenue on which he will build a fine residence.—A committee has recommended an appropriation of \$10,000 for sewer extension.

**HAMILTON, ONT.**—The Hamilton Brass Mfg. Co., whose factory was destroyed last week, will likely rebuild at once.—The Sewers Committee has been authorized to advertise for tenders for construction of pipe sewers on Sherman avenue and John street north.—Edward Carlton has been granted a building permit for four brick dwellings on Sanford avenue, between Wilson and Cannon streets, to cost \$4,500.—President Myles, of the Hamilton, Grimsby and Beamsville Railway, states that the extension of the road to St. Catharines will not be undertaken for some time.

**MONTREAL, QUE.**—The Police Committee desire the council to build a number of new police stations.—The council of Delorimier have decided to finish the large hall in the upper part of the new municipal building and to have it heated by hot water radiators.—The following building permits have been granted: S. Parent, two-storey building, Poukart street, cost \$1,800; L. T. Masson, two-storey building, Brant lane, cost \$2,700; Mrs. Desgeorges, three-storey building, Laval avenue, cost \$6,000; H. O'Brien, two-storey building, corner Laprairie and Manufacturer streets, cost \$4,800; Doclos & Roch, two-storey building, Cuvillier street, cost \$1,600.

**OTTAWA, ONT.**—The organization of the Canadian Telephone & Telegraph Company has been completed and a deposit of \$25,000 placed with the Government. Charles Robinson, of Scranton, Pa., is president and Robert Bickerdike, M.P., Montreal, first vice-president.—The Dominion Government have purchased the Stewart property, bounded by Elgin, O'Connor, McLeod, and Argyle avenue, as a site for new geological museum. The plans for the building are being prepared and it is expected that tenders for erection will be invited at an early date.—The trustees of St. Luke's Church, burned last week, have not yet decided whether to rebuild on the same site or on a new site at the corner of Bell and Somerset streets.—The Minister of Militia has concurred in Lord Dundonald's recommendation for the purchase of a site near Kazabazua, Que., upon which to locate the proposed training militia camp. A permanent barracks will be erected on the Danford Lake, and the C.P.R. will construct a

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branch railway from Kazabazna to the proposed barracks, a distance of three miles.—The following building permits have recently been granted: George Kingsbury, frame dwelling, Victoria avenue, cost \$2,500; Robert McGregor, brick veneer dwelling, Maria street, cost \$2,000; J. P. MacLaren, brick warehouse, Sparks street, cost \$5,000; Fred Gougeon, brick veneer dwelling, Sussex street, cost \$3,700; Edward Palen, brick veneer dwelling, O'Connor street, cost \$2,500.

TORONTO, ONT.—The Manning Estate will, it is reported, add two stories to the Manning Arcade, install new elevators and otherwise improve the building.—Bond & Smith, architects, 160 Bay street, are this week taking tenders on a residence on Walmer Road.—R. M. Wallace, 15 Ann street, has just taken tenders on brickwork of a pair of houses on Havelock street.—Charles L. Bailey, Canadian representative of Wm. Jessop & Sons, steel manufacturers, Sheffield, England, has written to the council asking what inducements would be offered the company to locate in this city a Canadian plant that would employ at least 2,000 men.—The National Sanitarium Association have obtained options on several sites on which to build a free dispensary for outdoor consumptive patients.

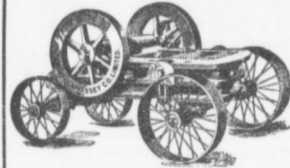
—Ald. Sheppard and the City Engineer have been deputed to ascertain the cost of a small asphalt plant for repairing purposes, also of a large plant for new pavement work.—C. C. Van Every states that plans have been prepared for a large summer hotel to be built on Ward's Island, the building and surrounding improvements to cost in the neighborhood of half a million dollars. United States capitalists are said to be behind the scheme.—President Loudon has recommended that the proposed women's residence in connection with Toronto University be built on the vacant lot to the west of Mr. Campbell's residence on Bloor street.—The Board of Control will recommend to Council that the sum of \$25,000 be placed in next year's estimates for the purchase of water meters.—It is expected that work on the extension of the Scarborough Electric Railway on the Kingston Road from the Halfway House to Highland Creek will be commenced at an early date.—It is reported that Cornelius Shields, late of the Consolidated Lake Superior Co., is now in Newfoundland in connection with the proposed establishment there by Henry M. Whitney of a large pulp mill.—Tenders are invited by the Board of Control up to December 8th for annual supplies, including lumber, cement, paving brick, cast iron pipe, brass and bronze castings, lead pipe, valves, special castings, lubricating oils, etc.—Building permits have been granted as follows: D. Crane, two two-storey and attic brick and stone dwellings, east side Spadina road, cost \$8,000; W. G. Tace, two and a half-storey brick dwelling, west side Havelock street, near Bloor, cost \$2,800; M. H. Irish, two-storey and attic brick residence, 16-18 Chestnut Park road, Rosedale, cost \$7,000; T. J. Madill, brick dwelling, Summerhill avenue, near Yonge street, cost \$2,500; Margaret Barrett, pair brick and stone dwellings, east side Markham street, near Ulster, cost \$7,000; Toronto Co-Operative Carpenters and Builders, pair brick veneered buildings, north side Hogarth street, cost \$3,600; R. C. Vaughan, pair brick and stone dwellings, Shaw street, cost \$6,000; Dunkley Bros., pair brick and stone dwellings, Lansdowne avenue, cost \$5,600; J. W. Plewes, pair two-storey and attic brick and stone dwellings, 193-195 Cottingham street, cost \$4,400; Charles Mouldy & Co., two two-storey brick dwellings, 184-186 Campbell avenue, cost \$3,000; R. Saunders, two-storey brick and stone

dwelling, Delaware avenue, cost \$3,500; Trustees St. Jude's church, alterations to church, Roncesvalles avenue, cost \$2,500; M. B. Vandervoort, two-storey frame and brick dwelling, 45 Waverley road, cost \$1,000, also three two-storey brick dwellings, 882-886 Palmerston avenue, cost \$4,500; L. C. Sheppard, pair two and a half-storey brick dwellings, 39 Tranby avenue, cost \$3,200; Thomas Burry, pair brick, frame and plaster dwellings, Hogarth avenue, cost \$1,000; H. Greisman, three two-storey brick dwellings, 12-16 Armoury street, cost \$3,000; L. C. Sheppard, two pairs two and a half-storey brick dwellings, Rathnally avenue, cost \$6,400, and pair two and a half-storey brick dwellings, Cottingham street, cost \$3,200; R. H. Morehouse, pair brick dwellings, First avenue, cost \$4,000; E. Wilfong, pair dwellings, 252-254 Broadview avenue, cost \$2,000; J. Kelly, brick residence, Maple avenue, cost \$6,500; Wickett Bros., pair two-storey brick dwellings, corner Sumach and Amelia streets, cost \$3,500; N. W. Rowell, K. C., two-storey and attic brick and stone dwelling, Crescent road, cost \$10,000; M. Kelly, two-storey and attic brick resi-

dence, Maple avenue, cost \$6,000; J. N. Smith, two-storey brick and stone residence, Roxborough street, cost \$5,000.

C.W. Ross, electrical supplies, Quebec, Que., is reported to have assigned.

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## FIRES.

Building of the Hamilton Brass Works at Hamilton, Ont., almost totally destroyed; loss \$30,000.—Commercial Hotel owned by Frank McInerney and store and dwelling owned by Edward McInerney at Rexton, N.B., totally destroyed.—Gas elevator at Ruscombe, N.W.T., owned by H. B. Knister.—St. Luke's Anglican church, corner Somerset and Bell streets, Ottawa, almost totally destroyed; loss \$8,000.—Boot and shoe factory of Laniel & Co. at Maisonneuve, Que., completely consumed; loss \$50,000.

## CONTRACTS AWARDED.

COLLINGWOOD, ONT.—Alterations to Bank of Commerce building; Bryan Mfg. Co., contractors.

NIAGARA FALLS, ONT.—Sewers on Epworth Circle, Clarke avenue and Park street; Sheppard & Co., successful tenderers, \$5,500.50.

GODERICH, ONT.—The contract for heating the Huron House with steam has been given to Charles Lea. About 40 radiators will be required.

ST. JOHN, N.B.—Improvements to the Canada Life Insurance Co. building on Prince William street; Masonry, R. A. Corbett; carpentry, Andrew Myles.

VANCOUVER, B. C.—Alterations to the Thompson-Ogle block on Hastings street; Parr & Fee, architects; Thomas Hunter, general contractor. Darling Bros. will supply the elevator and W. Ralph the heating apparatus.

SAULT STE. MARIE, ONT.—The contract for new public building here has

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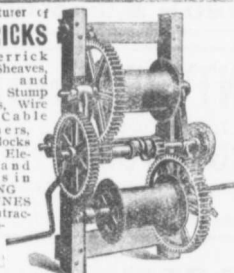
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been awarded to McPhail, McCarthy & Kenneth Wright at \$54,000.—Hickler Bros., of this place, have been awarded the contract for dredging the upper entrance to the Canadian canal.

BROCKVILLE, ONT.—William White and J. G. Chapman secured the contract for new buildings for the Cossitt Mfg. Co. at \$7,712, exclusive of plumbing, roofing and steam fitting. The James Smart Mfg. Co. have secured contracts for warming and ventilating the public school at Southampton and Knox church at E.ora, Ont., with Kelsey warm air generators.

TORONTO, ONT.—Two-storey bakery for W. H. Snell, East Toronto; Seilers Bros. contractors.—Tenders have been accepted as follows for new fire hall on Berkeley street: Carpenter work, Wilson, Gearing & Co., \$9,328; painting, S. J. Barbridge, \$699; plastering, John M. Gander, \$1,050; roofing and galvanized iron work, A. B. Ormsby & Co., \$1,014; plumbing and heating, Toronto Furnace & Drainage Co., \$4,174; steel work, Dominion Bridge Co., \$2,916; electric

wiring, James Morrison Co., \$275; glass tiling, Toronto Plate Glass Importing Co., \$266; masonry, Holtby & Co., \$13,533. The work will be carried out under the supervision of A. F. Wickson, architect.—Sewer tenders have been accepted as follows: Natalie street, E. Axtewthy, \$619; Dan Esplanade, City Engineer, \$374.—Fred Armstrong has been awarded the contract for plumbing work at Yonge street fire hall.

## UNITED STATES CEMENT IMPORTS.

Figures published by the Cement and Engineering News show that the importations of cement into the United States have this year been much larger than in 1902. For the eight months ending August 31st there were imported 696,138,524 pounds, as compared with 300,856,595 pounds in the corresponding period of 1902. Of the quantity imported this year Germany supplied 408,018,374 pounds, or nearly three-fifths of the total. Belgium comes next with 245,324,337 pounds, followed by the United Kingdom with 25,255,545 pounds.

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**STEEL VS. IRON PIPE.**

In a report on new inventions and processes in Europe, Consul-General Oliver J. D. Hughes, of Coburg, Germany, says: The frequent cases of land subsidence, especially pronounced during heavy rains, and more or less experienced where extensive coal mining has been carried out, has once more brought to the front the great advantage of steel over iron pipe. The latter has long been universally used, largely because of its cheapness and of the simplicity with which water tightness and gas tightness have been insured. Experience has shown that leakages, if not also breakages, may result from the settlement of the surrounding earth, hence the adoption of steel pipe

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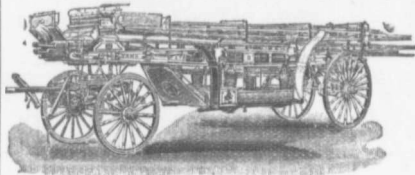
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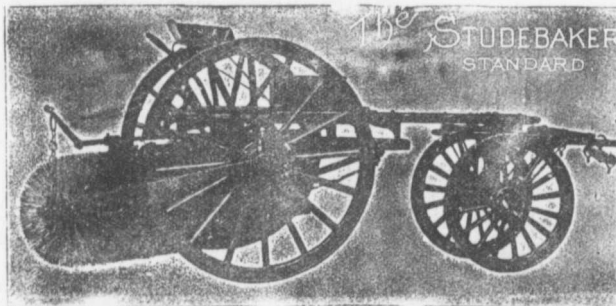
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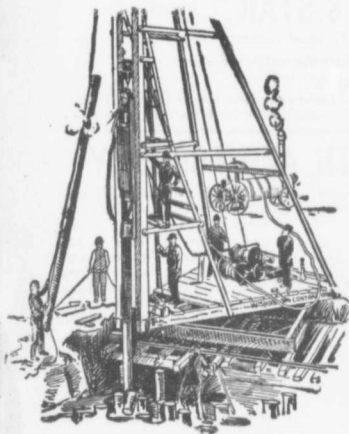
**Geo. Heaman, Mnfr., London, Ont.**

has become a matter almost of expediency rather than of choice, notably in the case of the producer gas distribution scheme throughout the honeycombed district of South Staffordshire in England. The most important first application, however, was in connection with the line of piping for Coolgardie water supply in Australia, which extended for 300 miles inland. In that case, one of the considerations was the lighter weight and facility of trans-

port provided by the steel pipe as compared with the thick cast iron conduits. The experience gained has been all in favor of an extension of the system of steel piping, but the producing capabilities of the country have scarcely been adequate. The only technical difficulty is the forming of the longitudinal joints of the plates forming the pipe and the design of a suitable coupling connection. But the problem has been solved in connection with

the Coolgardie scheme and the South Staffordshire gas supply, and it is interesting to note that a large Glasgow concern intend to manufacture pipe up to 48 inches in diameter.

The entire plant of the Ontario Portland Cement Company at Blue Lake, near Branford, Ont., is expected to be in operation before the end of this month.



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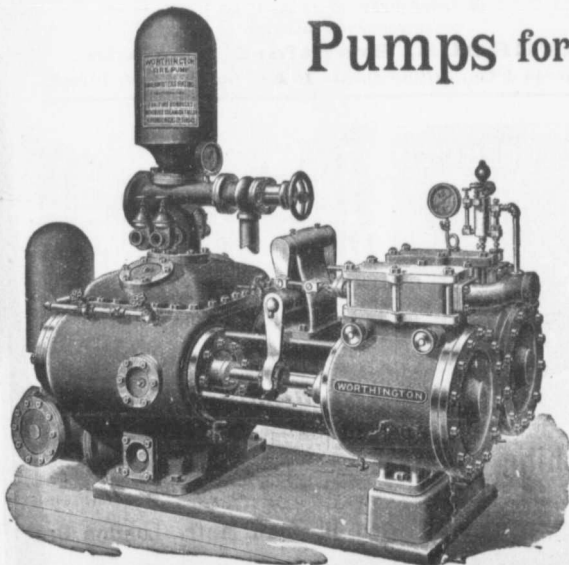
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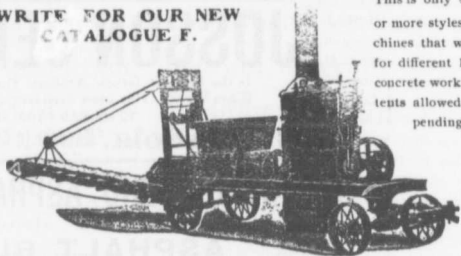
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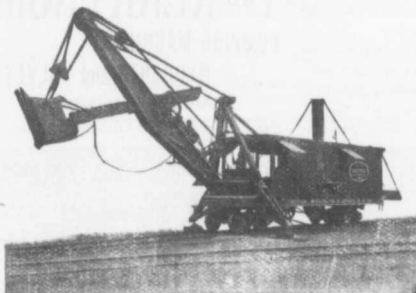
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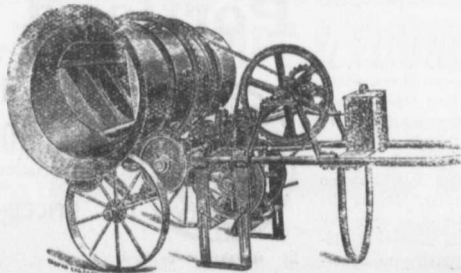
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### OLD FIRE ENGINES.

MONTREAL, 30th October, 1903.

Editor CONTRACT RECORD:

DEAR SIR,—In your issue of October 28th, 1903, you have an article in connection with a fire engine in the village of Buchanan, five miles west of Niles, Michigan, U.S.A., which is over 100 years old. R.H. Buchanan & Company, this city, sold one two years ago that was made in London, England, in 1760, and as good as new today; and they have one that was used at the big fire in London in 1666 and a complete set of copper plate engravings of fires in 1630 and engines used for the same, the property of

Yours very truly,  
WILLIAM PERRY,  
Hydraulic Engineer.

### GLASS PAVING BRICK.

The Garchey glass paving blocks laid down in Lyons, France, recently, according to a French mechanical journal, appear to wear very well, only a few having become chipped. The blocks have a superficial area of about 64 inches, the face being divided into sixteen squares by cross furrows so as to prevent percolation, and are stated to be more durable than granite, whilst cleaner than wood blocks or asphalt. A large factory has been erected near Lyons for the production of these blocks, as well as plain and ornamental blocks for building purposes.

This glass stone is made from bottle glass and window glass cullet, is crushed in a mill, sifted, and slowly heated for an hour in cast-iron molds, to devitrify the glass and convert it into a very viscid, pasty mass, which is then heated for a few minutes in a furnace at 1,300 degrees C., and pressed by hydraulic power. According to the color or fineness of the materials, the appearance of various kinds of stone can be imitated. From official tests it appears that the glass stone will resist a pressure of 2,023 kilos. per square em., whereas granite will not stand more than 650 kilos. pressure. It also (says J. Heurivaux in Le Ceramique) withstands the action of cold, sample plates cooled to twenty degrees below zero resisting a pressure of 2,028 kilos. per square em. In point of resistance to attrition, the new product is found to be superior to St. Raphael porphyry, and twice as good as Comblanchien building stone. A 4.2 kilos. weight falling from a height of 1 metre effected the fracture of the blocks after twenty-two blows, whilst similar blocks made from blast furnace slag and Cherbourg quartzite were broken at the nineteenth blow. The tensile strength is 15.3 kilos., blocks measuring 50x33 em. requiring a force of 25,000 kilos. to tear them asunder. Among the advantages claimed for glass stone for building purposes are its non-porosity, insulating power, insusceptibility to atmos-

pheric and other influences, cheapness and hardness, the latter being so great as to necessitate the tempering in mercury of the cutting tools used in working the stone. As a street paving material it is able to stand any vibration of traffic, is easy to clean and hygienic, whilst "the pavement does not become slippery."

### BULK OF BROKEN STONE.

In the Government district of Wiesbaden some interesting experiments have been made, showing the increase in bulk

of various kinds of stone after being crushed for road metal. Stone in pieces varying from 4 to 12 inches in length was broken by hand to sizes varying from 1½ to 1¼ inches. The average increase in bulk of the six kinds of stone used in these experiments was found to be over 11 per cent.

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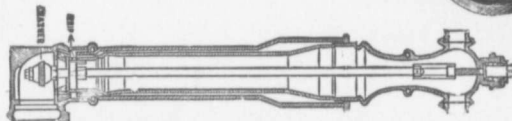
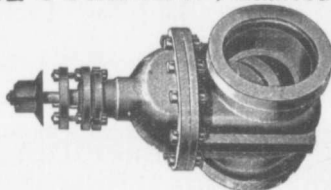
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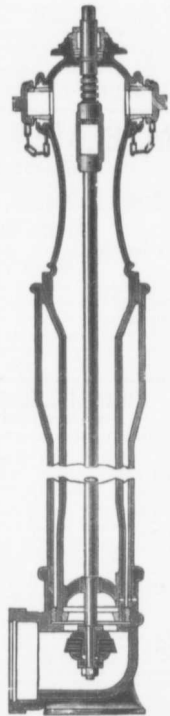
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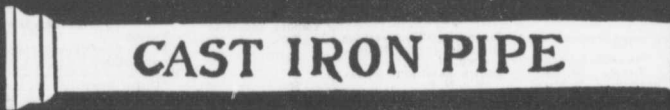
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" No. 2	20 00	25 50
" No. 3	18 00	23 50
" No. 4	15 00	20 50
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Couriers, 4 to 6 in. bed f. o. b. St. Mary's, per cord	4 00	3 00	Cathedral	1 35	2 50
Feeding, 2 1/2 to 3 in. wide, 6 in. thick, per running foot	70		"White Cross"	2 15	2 20
Bridge Stone, 10 to 13 in. thick, f. o. b. St. Mary's, per cord	4 00	3 00	Atlas	2 25	2 35
Granite (Laurentian Pink) Ashlar, 6 to 2 in., rise 9 in., per c. ft.	6 00	9 00	Hammer		1 80
Dimension Stock Granite (Laurentian Pink) for building purposes, per c. ft., f. o. b. quarries			Sampson		1 80
Do., for polishing purposes, up to 2 tons weight, per cubic foot			Red Cross Brand		1 90
			Waterloo		2 20
			Rave's 396 lb. bibl.		2 55
			Leite Bros.		2 50
			White Star	2 25	2 55
			White Star	1 90	2 00
			Canada's		2 10
			Star Brand		2 10
			Invisible		2 00
			Ensign	1 90	2 20
			Citadel		2 00
			Trowel		1 75
			Samson Brand		2 00
			Magnat		2 05
			Monarch		2 10
			Hercules		2 30
			Lion Brand		2 20
			Imperial		2 10
			Aloha Brand		2 00
			Alsen's		2 50
			English, in bibl., 375 lbs.		2 25
			" cotton sacks, 250 net		2 20
			" open bags		2 10
			Keene's Superfine "Whites"	10 00	12 00
			Keene's Coarse "Whites"	6 50	7 00
			Fire Bricks, Newcastle, per M	27 00	32 00
			" Scotch	28 00	33 00
			Plaster, Calcined, N. B.		3 00
			" " N. S.		2 85