

Technical and Bibliographic Notes / Notes techniques et bibliographiques

The Institute has attempted to obtain the best original copy available for filming. Features of this copy which may be bibliographically unique, which may alter any of the images in the reproduction, or which may significantly change the usual method of filming, are checked below.

L'Institut a microfilmé le meilleur exemplaire qu'il lui a été possible de se procurer. Les détails de cet exemplaire qui sont peut-être uniques du point de vue bibliographique, qui peuvent modifier une image reproduite, ou qui peuvent exiger une modification dans la méthode normale de filmage sont indiqués ci-dessous.

Coloured covers/
Couverture de couleur

Covers damaged/
Couverture endommagée

Covers restored and/or laminated/
Couverture restaurée et/ou pelliculée

Cover title missing/
Le titre de couverture manque

Coloured maps/
Cartes géographiques en couleur

Coloured ink (i.e. other than blue or black)/
Encre de couleur (i.e. autre que bleue ou noire)

Coloured plates and/or illustrations/
Planches et/ou illustrations en couleur

Bound with other material/
Relié avec d'autres documents

Tight binding may cause shadows or distortion along interior margin/
La reliure serrée peut causer de l'ombre ou de la distorsion le long de la marge intérieure

Blank leaves added during restoration may appear within the text. Whenever possible, these have been omitted from filming/
Il se peut que certaines pages blanches ajoutées lors d'une restauration apparaissent dans le texte, mais, lorsque cela était possible, ces pages n'ont pas été filmées.

Coloured pages/
Pages de couleur

Pages damaged/
Pages endommagées

Pages restored and/or laminated/
Pages restaurées et/ou pelliculées

Pages discoloured, stained or foxed/
Pages décolorées, tachetées ou piquées

Pages detached/
Pages détachées

Showthrough/
Transparence

Quality of print varies/
Qualité inégale de l'impression

Continuous pagination/
Pagination continue

Includes index(es)/
Comprend un (des) index

Title on header taken from: /
Le titre de l'en-tête provient:

Title page of issue/
Page de titre de la livraison

Caption of issue/
Titre de départ de la livraison

Masthead/
Générique (périodiques) de la livraison

Additional comments: /
Commentaires supplémentaires:

This item is filmed at the reduction ratio checked below /
Ce document est filmé au taux de réduction indiqué ci-dessous.

10X	12X	14X	16X	18X	20X	22X	24X	26X	28X	30X	32X
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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. 10.

NOVEMBER 1, 1899

No. 40

THE CANADIAN CONTRACT RECORD, PUBLISHED EVERY WEDNESDAY

As an Intermediate Edition of the "Canadian Architect and Builder."

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

C. H. MORTIMER PUBLISHING COMPANY
of Toronto, Limited,
Publishers

CONFEDERATION LIFE BUILDING, TORONTO.
Telephone 2362.

Branch Office:
New York Life Insurance Building Montreal,
Bell Telephone 2299.

Advertising Rates on application.

Information solicited from any part of the Dominion regarding contracts open to tender.

Subscribers who may change their address should give prompt notice of same. In doing so, give both old and new address. Notify the publishers of any irregularity in delivery of paper.

To Contractors

The time for receiving tenders for THREE BRICK HOUSES on Ross Street, Toronto, has been extended to 12 o'clock, noon, on SATURDAY, NOVEMBER 4TH, 1899.

GORDON & HELLIWELL, Architects,
Confederation Life Building, Toronto.

TENDERS

Will be received at the office of the undersigned up to five o'clock on THURSDAY, NOVEMBER 2ND, for the various Trades in connection with the erection of a LARGE BUILDING in the City of Toronto.

SYMONS & RAE, Architects,
35 Adelaide Street East, Toronto.



NOTICE TO CONTRACTORS

Tenders for Pavement

Tenders will be received, by registered post only, addressed to the Chairman of the Board of Control, City Hall, Toronto, up to noon on WEDNESDAY, NOVEMBER 2TH, 1899, for the following work:

CEADAR BLOCK PAVEMENT

on Spadina Avenue, from Adelaide to Queen Streets.

Contents of envelopes containing tenders must be plainly marked on the outside.

Conditions and specifications may be seen and forms of tender obtained at the office of the City Engineer.

A deposit, in the form of a marked cheque, payable to the order of the City Treasurer, for the sum of 2 1/2 per cent. on the value of the work tendered for, must accompany each and every tender, otherwise they will not be entertained.

Tenders must bear the bona fide signatures of the contractor and his sureties, or they will be ruled out as informal.

Lowest or any tender not necessarily accepted.

JOHN SHAW (Mayor),
Chairman Board of Control.

City Hall, Toronto, Oct. 26th, 1899.

TENDERS WANTED

Tenders will be received until the 7TH INST. for a BRICK DWELLING to be erected in the east end of this City.

The lowest or any tender not necessarily accepted. The plans and specifications may be seen at the office of

R. J. EDWARDS & WAGNER, Architects,
18 Toronto Street, Toronto.

CONTRACTS OPEN.

CAMDEN EAST, ONT.—A new public school will be built here.

BERLIN, ONT.—A. & C. Boehmer will enlarge their box factory.

SARNIA, ONT.—The town is about to issue debentures for \$10,000.

KEMPTVILLE, ONT.—A. Buchanan intends to erect a brick house.

SUNDERLAND, ONT.—Frank Reynolds purposes erecting a brick barn.

KIRKTON, ONT.—A movement is on foot to erect a \$12,000 flour mill.

ARDEN, ONT.—A site has been purchased for proposed English church.

NEW GERMAN, ONT.—A new house will be built by Mrs. Joseph Bruder.

SYDENHAM, ONT.—The parsonage of the English church is to be remodelled.

HUMBERSTONE, ONT.—It is the intention of Mr. Manby to build a residence.

SOUTH MOUNTAIN, ONT.—The Hornerites are preparing to build a church.

WINDSOR MILLS, QUE.—Waterworks and electric light systems for this town are needed.

EVERTON, ONT.—The congregation of the Disciples church will build a new parsonage.

MELITA, MAN.—T. Bullock & Sons will enlarge their grain elevator and flour warehouse.

DEREHAM CENTRE, ONT.—Geo. Minshall purposes building a new house next summer.

BRANDON, MAN.—The Brandon Brewery Co. will make a large addition to their factory.

MANITOU, MAN.—W. Ross, implement dealer, is about to erect a brick warehouse 25 x 56 feet.

FORT WILLIAM, ONT.—Excavating has commenced for the proposed Ogilvie mill and elevator.

THAMESVILLE, ONT.—The work of erecting a Presbyterian church has been commenced.

BAY BEACH, ONT.—It is reported that the foundation is soon to be commenced for a new hotel.

HARTLAND, N. B.—Tenders for construction of bridge are asked by the secretary, S. S. Miller.

ESQUIMAULT, B. C.—Tenders have been invited for construction of boat slip at H. M. naval yard.

WATFORD, ONT.—It is said that J.

Lawrence & Sons, of Sarnia, intend to erect a saw mill here.

TILBURY, ONT.—The council will shortly issue debentures for construction of granolithic walks.

CORDEN, ONT.—The Methodist congregation purpose building a church next spring, to cost \$6,000.

STOUFFVILLE, ONT.—The sum of \$65,000 has been subscribed towards a pork packing establishment.

THREE RIVERS, QUE.—The St. Maurice passenger bridge at this place was destroyed by fire last week.

LITTLE CURRENT, ONT.—Mr. Tinkis will probably install an acetylene gas plant in the Mansion House.

MALDEN, ONT.—A movement is on foot to erect an R. C. church in the eastern part of the township.

ST. STEPHEN, N. B.—The St. Croix Shoe Factory Co. will build an addition to their works, two storeys, 56 x 32 feet.

BEAUMONT, N.W.T. The Beaumont Mills Co. has been formed here, capital \$4,000, to operate grist and saw mills.

PETROLIA, ONT.—The by-law to grant a franchise to the Carmen Deep Well Gas Co. has been approved by the ratepayers.

SMITH'S FALLS, ONT.—W. R. Ross, architect, is having plans prepared for alterations and additions to his residence.

BRANTFORD, ONT.—The township council held a meeting last week with reference to proposed flood protection works.

WELLAND, ONT.—W. G. Somerville has just commenced the erection of a new building, 55 x 68 feet, with concrete basement.

FONTHILL, ONT.—T. L. Nichols, of Welland, will prepare plans for new dwelling to be built on the Lymburner site.

KAMLOOPS, B.C.—Plans for waterworks system, prepared by Willis Chipman, C. E., of Toronto, have been submitted to council.

BEEBE FLAIN, QUE.—The Stanstead Granite Quarries Co. have commenced the erection of their sheds, which will be 300 x 60 feet.

LINDSAY, ONT.—Robert Bryans has purchased the residence known as Holly Lodge and will make extensive improvements thereto.

GUELPH, ONT.—The government engineer has recommended that a new boiler be placed in the Ontario Agricultural College.

SEVERN BRIDGE, ONT.—Buckham Bros. have purchased a lumber limit in the vicinity of Whitney, and purpose building a saw mill.

NORLAND, ONT.—It is reported that a Lindsay firm has purchased the site at Elliott's Falls and purposes erecting a water power saw mill.

CAMPBELLTON, N.B.—Tenders have just been taken for construction of fish

hatchery at Flatlands. Particulars from Alex. Mowat, this place.

BRIDGETOWN, N.S.—B. Havey has purchased the McCormick store, which he will remodel.

ST. DOMINIQUE DE JONQUIERE, QUE.—The Jonquiere Pulp Company has been incorporated, capital \$40,000, to manufacture pulp, paper, etc.

NANAIMO, B.C.—Berry & Thurston have made a proposition to the council to erect a large boot and shoe factory in return for a bonus of \$3,000.

SYDNEY, C.B.—The foundation for the machine shop of the Dominion Iron & Steel Co. is almost completed. The building will be 500 feet long.

ORANGEVILLE, ONT.—W. L. Walsh, solicitor for the township of East Garafraxa, invites bids up to November 15th for purchase of \$5,000 of debentures.

HINTONBURG, ONT.—The engineer of the township of Nepean has prepared plans for a drain for the property of Thos. Shillington and adjoining land-owners.

HULL, QUE.—Last week the ratepayers defeated the by-law to grant the Pontiac & Pacific Junction Railway Co. a bonus of \$30,000 to establish its workshops here.

BUCKINGHAM, QUE.—The ratepayers have decided to accept the \$5,000 government grant towards the erection of a post-office, but the site has not yet been selected.

ARNPRIOR, ONT.—The Board of Trade has passed a resolution calling upon the council to take steps towards the construction of waterworks and sewerage systems.

WESTMOUNT, QUE.—The by-law authorizing the council to raise a loan of \$250,000 for roads and general improvements was carried by the ratepayers last week.

CALGARY, N.W.T.—Willis Chipman, C.E., of Toronto, has been engaged by the council to prepare plans and specifications for a waterworks system for this town.

GODFRICH, ONT.—The Water and Light Committee of the council recently asked for power to purchase two 100 light transformers and belts for engine and dynamo.

TORONTO JUNCTION, ONT.—The Methodist congregation at Davenport, of which Rev. H. S. Matthews is the pastor, are considering the erection of a new church.

TIVERTON, ONT.—The plans of R. W. Fawcett, architect, of Sarnia, have been accepted for Presbyterian church to be built here; building will be stone and brick, seating capacity 500.

NEWMARKET, ONT.—D. Roche & Co. intend to install 75 additional incandescent lights in their factory.—The Metropolitan Railway Co. purpose building a brick shed here in the spring.

GRAND MERE, QUE.—The Provincial Board of Health has notified the municipality that before waterworks and sewerage systems can be constructed the plans must be submitted to the Board.

CHARLOTTETOWN, P.E.I.—C. B. Chappell, architect, of this place, has prepared plans of a new church building for the Central Christian church. Tenders for the work will be advertised shortly.

PERTH, ONT.—Allan Grant, C. P. P agent here, has purchased the house and lot on Drummond street, opposite St. James church, and purposes making considerable improvements thereto.

ROSSLAND, B.C.—The city council has decided to defer action regarding the sewerage system until next spring, and in the meantime a by-law to provide funds will be submitted to the ratepayers.

QUEBEC, QUE.—James Woods, on behalf of the Harbor Commissioners,

invites offers up to Monday, November 20th, for purchase of the whole or any part of \$200,000 first preference bonds.

NEWCASTLE, N.B.—The council is inviting tenders for the installation of an electric light plant, in accordance with plans submitted by Mr. Duncan, engineer. The plant will likely be operated by water power.

DANVILLE, QUE.—On Monday last the ratepayers of the township of Shipton voted on a by-law to grant a bonus of \$10,000 to A. J. Morrill, of Nicolet Falls, to establish a pulp mill; result not learned.

VANCOUVER, B.C.—The taxpayers of North Vancouver have sanctioned loans of \$70,000 and \$12,000, the former for consolidating the debt of the municipality and the latter to construct a ferry between North Vancouver and this city.

LONGUEUIL, QUE.—The Slater Shoe Co., of Montreal, will probably erect a factory here.—Tenders for erection of school house and dependencies are invited by A. Dupras, secretary treasurer of the municipality, up to November 4th.

MORRIS, MAN. The Morris, Portage & Midland Railway Co. has been organized, to build a railway from Morris to Portage la Prairie and Neepawa. A preliminary survey will likely be made at an early date. Howell & Mathers are solicitors for the company.

PORT COLBORNE, ONT.—A Hamilton syndicate, including H. Carscallen, Q.C., J. C. Myles and P. E. W. Boyd, have made a proposition to the council to erect a blast furnace here, of 200 tons capacity, and to cost \$300,000. They ask for a bonus of \$25,000 and free site.

YARMOUTH, N.S.—The council has decided to engage an expert to report as to the best means of obtaining power for waterworks and lighting purposes.—Mrs. M. P. Cook and Mrs. T. W. Stoneman have purchased the Victoria block and will erect a new building on the site thereof.—Mr. Dodwell, C. E., resident engineer of the Public Works Department, has reported as to the necessary protection works at the mouth of the Chebogue river, and improvements in the channel connecting Eel Lake with Salt Lake.

EDMONTON, N.W.T.—The council is offering a free site and exemption from taxation for the erection of a modern foundry and machine shop.—As the council is considering the construction of a waterworks system, an estimate of the probable cost has been furnished by A. J. Harrison, C.E.

NEW WESTMINSTER, B.C.—It is expected that the new Federal Government building will be commenced at an early date. There is also a probability that a building will be erected next year for a city hall, library and fire hall, while it is not improbable that the Duncan-McColl building may be rebuilt.

CHATHAM, ONT.—The council will hold a special meeting to consider the paving of Colborne street.—The county council will raise \$12,000 by debentures to defray its portion of the cost of building a steel bridge, with stone abutments, at the present site of the Moravian bridge, the total cost of which is to be \$24,000.

BRACEBRIDGE, ONT.—C. H. Mitchell, C.E., of Niagara Falls, has made a report to council concerning the proposal to increase the power for electric lighting purposes. The proposed improvements will give an increase of about 600 horse power, and will cost about \$20,000. The power house will be built at the foot of the falls.

GRAND FORKS, B.C.—Harry Gager purposes establishing a smelter here, and is endeavoring to arrange with J. P. Graves for a site adjacent to the Granby smelter.—It is said that \$30,000 will be expended within the next three months in improving the waterworks and electric

light systems. A new pumping station and a steel tank will be built. B. C. Riblet has been retained as consulting engineer.

VICTORIA, B.C.—Thos. Hooper, architect, has prepared plans for a warehouse and store to be erected on Yates street, for Thos. Earle, M.P., three storeys and basement, 110 x 30 feet, brick and stone. Same architect has completed plans for a large three-storey hotel to be erected by Mr. Earle at Clayoquot.

LEVIS, QUE.—The council is about to construct systems of waterworks, drainage and electric light, and invites competitive plans for same. These plans are to be received by January 1st, 1900, the first prize to be \$1,000 and the second \$500. Particulars may be obtained from Flavien Roy, secretary-treasurer of the municipality.

LONDON, ONT.—The council intends to construct tile sewers on the following streets: Colborne street, King to York; York street, Colborne to Burwell; St. James street, Hellmuth avenue to Richmond street; and on portions of Waterloo street and Helmuth avenue.—A building permit has been granted to Mrs. A. J. Duncan for a two-storey brick venter dwelling on College avenue, cost \$1,700.

WINDSOR, ONT.—The special committee appointed to consider the purchase of a site for a hospital for contagious diseases will recommend that the matter be deferred for one year, and that in the meantime an effort be made to have other municipalities join with Windsor in erecting a large hospital.—Rev. Dr. Flannery will receive tenders up to November 5th for erection of parochial residence for St. Alphonsus church.

LISTOWEL, ONT.—W. E. Binning, architect, wants tenders by November 6th for construction of fireproof vault in town hall. Same architect has prepared plans for Presbyterian church to be erected next season in the village of Kemble, twelve miles north of Owen Sound; tower and basement, walls of red brick and cut stone, electro-glazed windows, acetylene gas lighting. Tenders will be invited shortly.

NIAGARA FALLS, ONT.—T. G. Nichols, architect, has completed plans and invited tenders for an addition to the Y.M.C.A. building.—The town council is considering the proposal of the Niagara Central Railway Co. for the extension of the road and its conversion into an electric line.—A few days ago a party of capitalists and engineers, including F. C. Denniston, civil engineer, of Montreal, and H. C. Symmes, of Toronto, visited the scene of the proposed developments in Queen Victoria Park. It was stated that a staff of surveyors would begin work at once to stake out the route of the proposed canal.

KINGSTON, ONT.—It is said that the Kingston Locomotive & Engine Co. will make a \$50,000 addition to their buildings and plant.—The council has authorized the city clerk to communicate with the county council with a view to securing the construction of a subway beneath the Grand Trunk tracks at Montreal street.—H. P. Smith, architect, is preparing plans for alterations and improvements to Rev. Father Spratt's church on Wolfe Island. A tower and an addition will be built, the work to cost about \$8,000.—W. J. Moore, real estate broker, has received intelligence from American capitalists that they will shortly visit the city with a view to purchasing one of the hotels and remodelling it into a first-class hostelry.—The question of building a new gymnasium was discussed by Queen's Alma Mater Society at a meeting held last week. The building will cost \$6,7000.

MONTREAL, QUE.—Perrault & Lesage, architects, have just taken tenders on three cut stone front houses on Marie Anne street for Louis Beaudry. The

excavation, drainage and masonry contract has been given to Octave Lemay and the brickwork to P. Brunet.—The Phoenix Bridge & Iron Works Co. are said to be considering the question of establishing a factory at some other point.—Mr. Lebeau has asked permission from the council to erect an hotel at the eastern abattoir.—David R. Brown, architect, Canada Life building, has prepared plans for an hotel to be built at St. Agathe by the St. Agathe Hotel Co., of which Mayor R. Prefontaine, ex-Mayor R. Wilson Smith and James Crathern are directors. The building will be frame on stone foundation, 200 x 40 feet, and will be planned so as to provide for additions when necessary; heated by steam and lighted by electricity; estimated cost, \$30,000.

WINNIPEG, MAN.—It is the intention of G. W. Murray, whose planing mill was burned recently, to erect a brick and stone building next year.—The Committee on Works has recommended that the following works be constructed. Cedar block pavement on Bannatyne avenue, cost \$4,550; macadam pavements on Francis street, cost \$2,170; Gertie street, cost \$4,060; lane south of Broadway, cost \$2,500. Tenders will be called for the construction of macadam pavements, and the block paving will be done by day labor.—Arrangements will be completed next month for the construction of 50 miles of the Edmonton district railway.—It is probable that a by-law to raise \$75,000 for the construction of a sub way under the C.P.R. tracks in connection with the proposed hotel will be submitted to the property-owners at the forthcoming municipal elections.

HAMILTON, ONT.—It is the intention of the Canada Life Insurance Co. to have alterations made in the portion of their building recently vacated by the company.—City representatives, in company with engineer Johnston, of the Department of Railways and Canals, Ottawa, a few days ago visited the bridge over the Grand Trunk Railway north of the canal on the high level road. The city desires some important changes made in the grade, and the government engineer seemed impressed with the idea that the present bridge was insufficient for the demands of traffic.—The Hamilton Bridge Works Co. have taken out a permit for erection of frame addition to works, cost \$1,200.—H. P. Heming gives particulars of proposed hotel to be built in Muskoka. Building will contain 250 rooms, will be three storeys high, with large plate glass windows, steel-clad baths, exposed plumbing, steam heating and electric lighting. The construction will be as nearly fireproof as possible.

OTTAWA, ONT.—James Davison, chairman Board of Works, is taking tenders this week for supply of five wooden snow ploughs.—J. C. Dupont, of Dalhousie street, has purchased property on the north side of that street, and next spring will erect a block of seven stores, with large hall above, cost about \$9,000.—Work will be commenced next spring on a large warehouse for James W. Woods. The building will be five storeys, 100 x 33 feet, brick with sandstone facing, metallic ceilings, fireproof fittings and supports, etc. It is intended to have all the manufacturing done in the new building, for which purpose machinery to the value of \$20,000 will be installed.—The St. Lawrence & Ottawa Railway Co. will apply to the Railway Committee of the Privy Council for permission to build a branch line in the township of Gloucester.—Building permits have been granted as follows. J. T. Moxley, brick veneered house, 69 Naclaren street, cost \$2,800; John Bell, house on Mackay street, cost \$900; Wm. Fligg, brick veneered house on Bell street, cost \$800.—E. F. E. Roy, secretary Department of Public Works, invites tenders up to Friday, November 17th, for the construction of a breakwater

at North Bay, Victoria county, N.S. An accepted cheque for \$3,000 must accompany the tender.

TORONTO, ONT.—Mr. J. A. Culverwell returned recently from New York, where he was successful in financing the Burreigh Falls-Peterboro-Lindsay electrical enterprise. Plans of power house and dam have recently been completed by New York hydraulic engineers.—Gordon & Hellwell, architects, invite tenders up to Monday, 4th inst., for erection of three brick houses on Ross street.—Symons & Rae, architects, invite tenders in this issue for erection of a large building.—At Toronto University convocation last week, the question of maintaining the residence was considered. The suggestion was advanced that certain graduates might be willing to provide the \$4,500 necessary to refit the present residence.—The contract for a steam road roller for the city has not yet been awarded.—A. R. Denison, architect, is taking tenders this week for erection of brick residence, corner of Broadview and Withrow avenues.—Mr. T. Eaton has purchased 75 feet of land at the north-west corner of Lowther and Madison avenues, and will erect thereon a residence.—Tenders are invited by Bond & Smith, architects, up to 7th inst., for the erection of a factory at Stouffville for the Stouffville Pork Packing Co.—R. J. Edwards & Wagner, architects, 18 Toronto street, are taking tenders up to 7th inst. for erection of brick dwelling in east end of city.—The contracts for pair of houses on Howland ave. have not yet been awarded, F. H. Heibert, architect.

FIRES.

Saw mill of D. Purinton, Richmond Corner, N.B., burned last week.—Fulton Bros.' saw mill at Fingal, Ont., totally destroyed; loss \$5,000, no insurance.—Large planing mills near Cassel, Ont., owned by John Kaufman.—Kennedy Bros.' evaporating factory at Leamington, Ont., almost totally destroyed. The building was owned by the Molsons Bank.—Central House at Rat Portage, Ont., damaged to the extent of \$3,000.—Windsor Hotel at Port Dalhousie, Ont.; loss on building, \$6,000; owner, Miss B. Duffin.

CONTRACTS AWARDED.

VICTORIA, B.C.—Vernon block. Elford & Smith, contractors, price about \$15,500.

NIAGARA FALLS, ONT.—Residence for A. McKae: Waugh & Robertson, contractors.

WATERLOO, ONT.—Sewers on Queen, Princess and Mary streets. Ed. Durlmel, contractor, \$420.

ALMONTE, ONT.—New depot: Con-

tract said to have been awarded to J. W. Munro, of Pembroke.

MANITOU, MAN.—Piers for iron bridge at La Riviere. Lund & Hasselfield, successful tenderers, \$1,100.

CHATHAM, ONT.—New brewery. Cucksey & Pritchard, successful tenderers, price about \$4,000.

ST. MARYS, ONT.—Electric street lighting: Weir & Weir, successful tenderers for supplying 31 lamps for one year; price, \$43.50 per lamp.

ST. JOHN, N. B.—Willard Kitchen, this city, has been awarded the contract for enlarging the tunnel through Morrissy rock, on the I.C.R., about five miles west of Campbellton.

STRATFORD, ONT.—The contract to supply 627,000 feet of lumber for Whyte Packing Co.'s factory has been awarded to Wm. Gordon, at a figure in the neighborhood of \$12,000.

HAMILTON, ONT.—F. J. Rastrick & Sons, architects, have let to John Mills the contract for the erection of a summer cottage at the Beach for Chas. Lambert. Same architects have let a contract to J. M. Robinson for erection of house and barn on Lottridge street for J. J. Scott.

McManus, Low & McManus, who had the contract for the excavating and concreting necessary for the new works of the Dominion Iron & Steel Company at Sydney, C. B., have given up the contract. Their figures were very low, and the clay proved to be regular 'hard pan.' Their time limit for the completion of the work was short and the weather none too favorable. The company will complete the work themselves, and have now in the vicinity of 1,800 men employed on the site.

A member of the city council of London Ont., several days ago intimated that some of the new cement walks were far from being up to the standard. According to an exchange, the council thereupon appointed a select committee who made an actual test on Richmond street south to determine the proportion of cement used. The entire committee was present, and the test was made with the greatest care and exactness. It was found that one barrel of cement, as used by the Silica-Barytic Company, would lay only 44½ square feet. According to one of the aldermen, the reports from the contractors show that in some cases the contractor had made one barrel of cement cover from 50 to 60 feet on the walks north of Dundas street. The results of the test would indicate that in such cases from 20 to 40 per cent. too little cement had been used.

**Pumping Machinery
Electric Light Engines
Boilers**

Built Specially for Municipalities

**The Smart-Eby
Machine Co.
Limited**

199 Barton Street East, HAMILTON, ONT.

CORRESPONDENCE SOLICITED

CEMENT

We make only one Brand of Portland Cement and it is the Highest Grade. It is used by the Government in Public Works and by the Leading Contractors in the Provinces. Write us for prices of our **SAMSON BRAND**.

The OWEN SOUND PORTLAND CEMENT CO., Limited

OWEN SOUND, ONT.

Engineering Contract Company

Main Office:

EMPIRE BUILDING, 71 BROADWAY, NEW YORK

Canadian Office:

TEMPLE BUILDING, TORONTO, ONT.

HENRY F. DUCK, MANAGER FOR CANADA.

**BRIDGE SUB-STRUCTURES, WATER POWER DAMS, CANAL WORK
and CAISSON FOUNDATION a Specialty**

MARKET CONDITIONS.

The month of October closed with a brisk movement of builders' supplies. The feature of the past week has been an advance at Montreal from 5 to 20 cents per barrel in the price of foreign cement, while Canadian brands have been marked up 30 to 50 cents per barrel. These advances have been made on account of the tight supply. It is said that in Montreal the scarcity of cement is checking business to some extent, and that importers are behind with orders, while Canadian manufacturers are turning down orders every day, their output being sold far ahead. The prospects are that a very small stock will be carried over this winter. An advance of from 5 to 10 per cent. has also been made by Toronto jobbers in the price of black iron pipe. In the United States wire and wire nails have been marked higher during the past week. In paints and oils there is a steady movement. There has been an advance of 2 cents per gallon in linseed oil and a drop of 2 cents per gallon in turpentine.

TENDERING—AND AFTER.

Tendering is one of the contractor's bugbears, as it is often a source of fruitless labour and much expense, or it may involve him in difficulties through no fault of his own. Contractors' difficulties are continually cropping up all over the country as unpleasant reminders of the uncertainties often attending contracts. The practice of accepting the lowest tender is yet too prevalent, without regard to its being below a judicious estimate. More con-

tractors, and especially building contractors, are placed in difficulties by this practice than any other class of trade competition. Even when the "lowest or any tender may not be accepted" is inserted in the "conditions", it is not intended to guard the contractor's interest. That the tendering system is fraught with difficulties to all concerned cannot be denied. Public officials, representative boards, etc., are open to be placed in the unenviable position of being accused of squandering public money if the lowest tender is not accepted; yet accepting an unjustifiably low tender is the most certain way of squandering money. Many such representative bodies are guided as to the just estimate of tenders by their official advisers to meet their specifications of work, etc. If the public would understand that contractors are not special public benefactors, to make presents to them of work without due remuneration, there would be less cause of dissatisfaction. The majority of contracts occupy considerable time, generally extending into years, during which the prices of labour and materials from various unexpected causes may be considerably enhanced beyond all expectation. Such occurrences may exhaust all the usual living profits of the contract. The contractor thus assumes the gratuitous function of the assurance of his patrons to the amount of his profits and losses involved in the contract. The patrons are thus freely absolved from the worries and losses which such occurrences usually involve, and yet the contractor receives no consideration for it. An assurance company for assuming the risks and

losses of this character would charge a valuable percentage. To be prepared for the exigencies of his business, if in large commercial and manufacturing centres, the contractor must occupy and keep up storage, wharfage yards, offices, workshops, etc., according to trades he employs. He must likewise employ and keep continuously a staff of assistants, foremen, skilled craftsmen, etc. He must buy material in large quantities. Timber, hardwoods, etc., require careful watching and constant handling to preserve them from decay, warping, splits, shakes, etc. Contractors who undertake special works requiring special appliances, often of an expensive nature, must be equipped accordingly. The running expenses of a contractor of to-day, independently of the materials and labour bills of his contracts, amount to a very considerable sum. A contractor could not otherwise carry out the large contracts which are daily offered for tenders. We do not here make a point of referring to losses arising out of misunderstandings and possible diversity of personal opinion in construing specifications. Notwithstanding the most carefully drawn descriptions of work and the best intentions on both sides, diversity of opinion is liable to crop up at times. This diversity is most liable to occur when the respective representatives of these sides have not the advantage of the personal experience of each other's standards of work, requirements, etc.

Samuel and Michael Patenaude have registered proprietors of S. Patenaude & Co., plumbers, St. Cunejonde, Que.

ARTIFICIAL STONE PAVEMENTS

SIDEWALKS A SPECIALTY

CORPORATIONS Will do well to consider our work and prices before letting contracts
The Silica Barytic Stone Company
 of Ontario, Limited.

WALTER MILLS, General Manager. Head office: INGERSOLL, ONT.

ORE AND STONE
CRUSHERS
HOISTING MACHINERY
RAILWAY SUPPLIES
BOILERS AND ENGINES
 Prices furnished on application

MARSH & HENTHORN,
 BELLEVILLE, ONT.

Please mention the **CONTRACT RECORD** when corresponding with advertisers.

THE PHOENIX BRIDGE & IRON WORKS

MANUFACTURERS OF STAY BOLTS AND ALL KINDS OF RIVETS

STEEL AND IRON STRUCTURAL AND ARCHITECTURAL WORK

Beams, Channels, Angles and Tees always in stock.

29 to 49 McGill Street,

P.O. Box 393.

MONTREAL

Prices on Application.

THE CADWELL SILEX STONE CO'Y

SILEX STONE WALKS } A SPECIALTY
 CURBINGS }

TO CORPORATIONS.—We can give you the benefit of our ten (10) years' experience in building our Silix Stone Walks.

C. W. Cadwell, Manager, Windsor, Ont.

Portland Cements...

HIGH GRADE GERMAN BRANDS FOR GRANOLITHIC AND ARTIFICIAL STONE SIDEWALKS.

Sewer Pipes, Best English Cements. Best Belgian Cements.
Culvert Pipes, &c. **W. McNALLY & CO.,** Montreal.

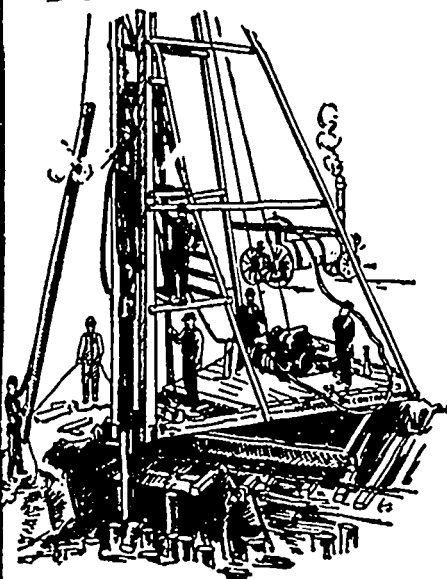
JOSSON CEMENT ..Manufactured at..
NIEL ON RUPPELL

Is the Highest Grade Artificial Portland Cement and the Best for High Class Work. Has been used largely for Government and Municipal Works.

TO BE HAD FROM ALL CANADIAN DEALERS

C. I. de Sola, Manager in Canada .. 180 St. James Street, MONTREAL**MUNICIPAL DEBENTURES BOUGHT****ÆMILIUS JARVIS & CO.** (Toronto Stock Exchange) 32 King St. West, TORONTO

MUNICIPAL ENGINEERS, CONTRACTORS AND MATERIALS



PILE DRIVING

on land or water by Steam Pile Drivers or Drop Hammers.

**Portable Boilers
Hoisting Engines
Pumping Machinery
TO LET**

Bridge Building, Trestle Work, Wharves, Dams, Diving Submarine Work and General Contracting.

WM. HOOD & SON
10 Richmond Sq. - MONTREAL

DEBENTURES BOUGHT

Municipalities saved all possible trouble by applying to

G. A. STIMSON & CO.
Investment Dealers

24 and 26 King St. W. - TORONTO

Paving Granite

Granite Sets for Street Paving. — CURBING cut to any shape ordered. — Fine Rich Colors for Building and Monumental Purposes.

Quarries, St. Philippe d'Argenteuil, P. Q.

Address all communications to

JOS. BRUNET - COTE DES NEIGES, MONTREAL

Please mention the CONTRACT RECORD when corresponding with advertisers.



THIS Preparation is used for the following purposes: Prevention of Dry Rot, Fungus Decay and the attack of White Ant and Termites in Timber, Preservation of Beams, Sills, Flooring, Wainscoting, Shingles, Wood Curbing, Sidewalks, Slat-walks, and Block Pavements. Preparation for sale or Timber treated at Factory, Corner Shaw Street and C. P. R. Track. Circulars sent of Application. Tel. 978.

OFFICE: Molson's Bank Building, Vancouver, B.C.

Tel. 646. P.O. Box 326.

PORTLAND CEMENT

High Grade PORTLAND CEMENT, for Concrete Work of all descriptions, Heavy Masonry, Sidewalks, Etc. EXCLUSIVELY used by the CANADIAN PACIFIC RAILWAY CO. on all their works in British Columbia, also by the DOMINION GOVERNMENT, the MUNICIPAL AUTHORITIES of VANCOUVER and VICTORIA, and by all the leading Contractors in BRITISH COLUMBIA

Manufactured by

THE BRITISH COLUMBIA PORTLAND CEMENT CO.

Prices and Circulars on application.

VANCOUVER, B. C.

W. & F. P. CURRIE & CO.

MONTREAL

Importers of

SEWER PIPES,

CHIMNEY TOPS,

VENT LININGS,

FLUE COVERS,

FIRE BRICKS,

FIRE CLAY,

WHITING.



PORTLAND CEMENTS,

HIGH GRADE ENGLISH

B. S. & Co. "ANCHOR,"

ALSO OTHER BRANDS,

PLASTER OF PARIS,

BORAX,

CHINA CLAY.

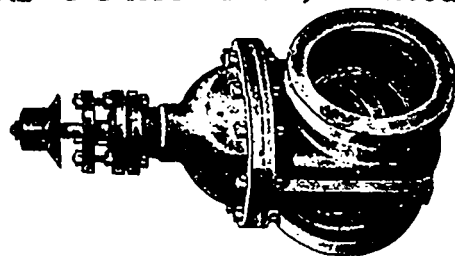
The KERR ENGINE COMPANY, Limited

We Manufacture

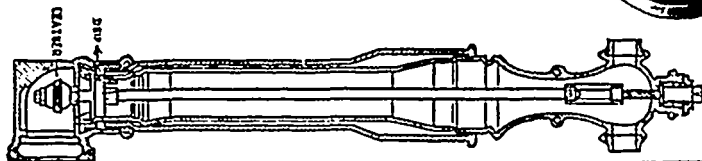
WATERWORKS PUMPS

HYDRANTS AND WATER GATES

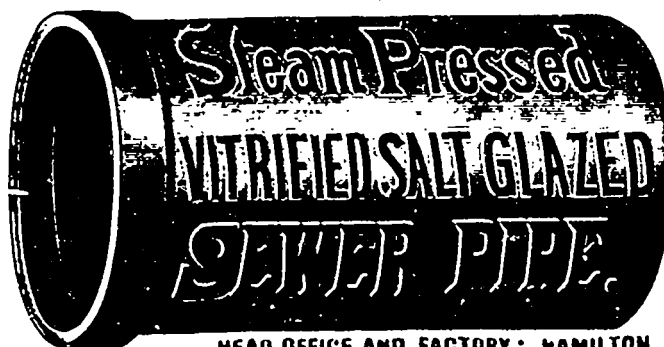
Write for Quotations.



WALKERVILLE, - ONTARIO



THE HAMILTON AND TORONTO SEWER PIPE CO. (LIMITED.)

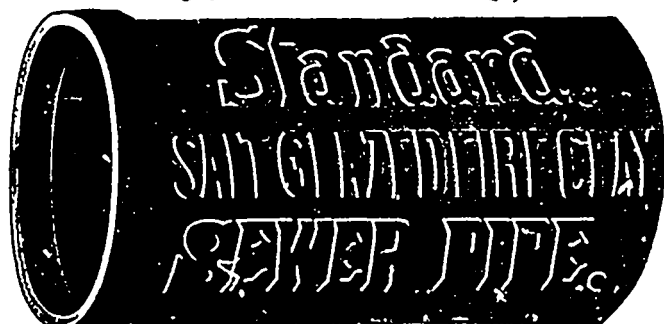


— FOR —
**SEWERS,
CULVERTS
AND
WATER PIPES.
INVERTS
For Brick Sewers**

Write for Discounts

HEAD OFFICE AND FACTORY: HAMILTON, CANADA

THE STANDARD DRAIN PIPE CO. OF ST. JOHNS, P. Q., (LIMITED)



Manufacturers
Salt-Glazed
Vitrified
**SEWER
PIPES**

Double Strength
Railway Culvert Pipes,
Inverts, Vents,

AND ALL KINDS OF FIRE CLAY GOODS

MUNICIPAL DEPARTMENT

TAR MACADAM ROADWAYS.

The city engineer of Hamilton, Ont., has just completed a tar macadam roadway, which it is expected will prove a strong rival of asphalt, and which costs only 75 cents per square yard. In making a tar macadam roadway all earth or other material above the sub-grade must be excavated so as to conform to the level of the sub-grade, which is 12 inches below the finished surface of the roadway. After the sub-grade is formed to the proper number of the road, it must be thoroughly rolled with a steam roller. The first six inches of the pavement is then placed upon the base as in constructing an ordinary macadam roadway, rolled smooth and finished to the proper number of the road. Upon this is placed the tarred stones. The first layer of these, four inches thick, is composed of stones capable of being passed through a two inch ring. On this, again, is placed a layer of stone capable of passing through a three-quarter inch ring, which is well rolled in to fill all the interstices. Before finishing a dressing of screenings is scattered broadcast to be worked in by the traffic.

The stone to be tarred is heated in an iron floor—under which are flues from a fire—until all the moisture is driven out. The material in its heated state is then thoroughly mixed with a sufficient quantity of tar. The tar is first boiled in an iron kettle holding fifty imperial gallons, to which is added a bucket-full of pitch. Eight imperial gallons are added to each cubic yard of the courser material, and ten or twelve to the finer kind of stone.

The process of construction is only pursued during the summer months, and all work is suspended on wet days.

Speaking upon the subject of this new species of roadway, an Ottawa alderman said: "It struck me as being just the style of roadway for this country, and its cost is well within the reach of any street of any pretensions in this city. I cannot, of course, speak of its resisting qualities from below—it does not have the same expensive foundation as asphalt—but it is a model roadway on the surface. For any street other than one upon which the traffic is excessive it is better than asphalt, because it has not the same slippery surface in wet weather, and, I think, is not as inclined to be dusty. It is a mistake to think that the tar-macadam will become soft in summer. The tar only supplies, as does asphalt, the cohesive properties to the pavement. There is only five per cent. of tar in this style of pavement, just as there is only five per cent. of asphalt in the so-called asphalt pavement. The tar, as does asphalt, only serves to fill up the interstices and to shed the water."

CHEAP WATER SUPPLY

Windsor, Ont., may practically have free water before the next twelve or fourteen years have passed over. The water-works system was established in 1874. Since that date more than \$300,000 has been expended upon capital account. This, together with the interest, is being paid off at the rate of \$21,000 per year. The cost of operation and maintenance averages about \$11,000 per annum. This latter, however, is practically provided for by the revenue from hydrant rentals and from water supplied for commercial purposes. The annual payment of \$21,000 continues until 1910, when there will be a reduction of \$2,500. In 1911 another re-

duction of \$5,500 occurs. In 1912 \$9,200 more is clipped off the annual indebtedness, and in 1913 the requirements of the Department will be lessened by another \$1,600, so that in the year 1914 the total amount to be raised will amount to a little less than \$2,200. As the cost of operation and maintenance of the plant will not materially increase during that time (at least not to a greater extent than will be provided for by increased consumption for commercial purposes), and as these may fairly be allowed an expenditure of \$50,000 on capital account for renewals, enlargements and extensions, the revenue to be raised by the imposition of a water rate will be well within \$5,000. This will easily be met by a yearly charge not exceeding \$1 on the average householder. If that will not be virtually a free water supply, such a thing can never be met with.

FIRE PROTECTION IN CITIES.

American cities lead the world in the number of paid firemen, while British cities bring up the rear, and besides, even in exceptional instances, fall far below the per capita fire protection expenditures in other European cities of, or about the same, size. In some British cities or towns, such as Liverpool, Bristol, Bromley, Norwich and Cardiff, the work of extinguishing fires is in the hands of the police, of whom a certain number are trained to do the work of firemen. London's Metropolitan fire brigade shows a roll of about 800 men—a number which Berlin, with about one-quarter of the population, about equals, and Paris doubles. Glasgow, with a population of 800,000 has only 100 firemen; Leeds, 33 for 600,000 people, and Sheffield 22 for 350,000 persons. As to the expenditures, Glasgow and Liverpool spend on their fire departments about \$75,000—ten cents per capita—annually, while Edinburgh, Dublin, Belfast and Salford are equally liberal in proportion to their population. London's yearly expenditure is about \$950,000—something like twenty cents per capita, while Sheffield spends less

than \$10,000 a year; Norwich, with a population of 100,000, only \$750; Preston, with 113,000 people, only \$1,500; and Leeds, less than \$5,000 to protect nearly half a million people and its many big factories.

LEGAL DECISIONS AFFECTING MUNICIPALITIES.

Justice Street gave judgment at Toronto recently in the case of McLean against the city of Ottawa, which is of great importance to municipal corporations. The action was tried at Ottawa, and was to recover damages for injuries sustained by plaintiff when walking north on the east side of Bank street, Ottawa. He slipped upon a small ridge of ice and fell. Judge Street held that defendant had not been shown to have exercised any control or made any claim on the strip of land to the east of the street upon which the ice had accumulated, but that, having regard to the decision in Adams vs. city of Toronto, defendant's liability was the same as if the ice had been upon the pavement within its jurisdiction. However, in view of the circumstances of the case and climatic conditions, the defendant could not be said to have been guilty of gross negligence within the terms of R.S.O., chapter 222, section 606, sub-section 2. The action was therefore dismissed with costs.

A new system of laying Trinidad asphalt was employed by Bellhouse, Dillon & Co. in Ottawa. Instead of the asphalt being spread and rolled directly on the concrete bed, City Engineer Galt says a binder or cushion of about half an inch in thickness is first put on top of the concrete. This consists of coarse gravel soaked and dipped in asphaltum. This is spread evenly and rolled lightly, after which the fine lake asphalt is put on to the thickness of two inches, rolled evenly and made firm. The cushion on top of the concrete prevents any possibility of the asphalt getting wavy or uneven, especially in grades.



"BEAVER" PORTLAND CEMENT

A HIGH GRADE PORTLAND CEMENT

Manufactured by

THE BEAVER PORTLAND CEMENT CO., LIMITED - WORKS: MARLBANK, ONT.

SOLE SALES AGENT:

COMMERCIAL WOOD & CEMENT COMPANY

Canada Life Building, Montreal.

Largest Works in Canada.

Write for Prices.

BELLHOUSE, DILLON & CO., 30 St. Francois Xavier St., Montreal

Sole Agents for the Compagnie Generale des Asphaltes de Franco (Rock Asphalt).

PORTLAND CEMENT NORTH'S CONDOR

Paving and Fire Brick a Specialty

"DYCKERHOFF" and "WHITE CROSS" Brands

NORTH'S "CONDOR" BRAND AWARDED FIRST PRIZE AND GOLD MEDAL AT THE ANTWERP EXHIBITION



"GERMANIA" BRAND

HIGHEST CLASS PORTLAND CEMENT

MCGILL UNIVERSITY TESTS, 1898:

Fineness:—residue on 100 sieve, 4.45%.

Tensile strength: neat: 7 days, 629 lb.

28 " 773 lb.

—OF ALL FIRST CLASS DEALERS.—



"BURHAM" BRAND

THE BEST LONDON PORTLAND CEMENT

As used for the following work: Keewatin Power Co.'s dam at Lake of the Woods; Canada Paper Co.'s dam at Windsor Mills; Government Breakwater, Buffalo; Dry Docks, Brooklyn and League Island; Hudson River Tunnel; and a vast amount of railway work, and mileage of Street Paving throughout Canada and the States.

OF ALL FIRST CLASS DEALERS.

MUNICIPAL ENGINEERS, CONTRACTORS AND MATERIALS

WILLIS CHIPMAN

Hon. Grad. McGill University.
M. Can. Soc. C.E. M. Am. Soc. C.E.
Mem. Am. W.W. Ass'n.

WATERWORKS, SEWERAGE WORKS, GAS
WORKS, ELECTRIC LIGHT AND
POWER PLANTS
Reports, Surveys, Construction, Valuations
103 BAY STREET - TORONTO

RODERICK J. PARKE

Consulting Electrical Engineer

MUNICIPAL ELECTRIC LIGHTING
COMMERCIAL POWER INSTALLATIONS

Isolated Electric Lighting and Power Plants for
Manufactories. Estimates, Specifications, Advice
on Tenders, Valuating.
310 Temple Building - TORONTO, CANADA

W. T. ASHBRIDGE, C.E.

A. M. CAN. SOC. C.E.

609 Temple Building, - TORONTO

Special Attention given to

MUNICIPAL IMPROVEMENTS

Sewerage Works, Water Supply,
Pavements, Concrete Construction, Etc.

J. EMILE VANIER

CIVIL AND HYDRAULIC ENGINEER

(Graduate of the Polytechnic School.)

IMPERIAL BUILDING, MONTREAL

SPECIALTIES -

Waterworks, Sewers, both Steam and Hydraulic
Power Plants, Foundations, Paving, etc.
Valuations made of Waterworks Systems, Arbi-
trations, etc.
Plans and Estimates for Public Buildings.

Please mention the CONTRACT RECORD
when corresponding with advertisers.

ST. LAWRENCE FOUNDRY CO.
OF TORONTO LIMITED
ESTD 1852

ARCHITECTURAL IRON & STEELWORK
MANUFACTURERS OF
FORGINGS & CASTINGS
CAST-IRON GAS, WATER & SEWER PIPES.
SPIKES & BOLTS.
PATTERNS & MODELS.

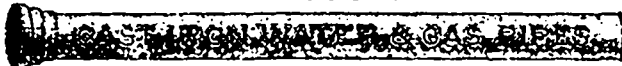
WATER CRANES
INDICATOR VALVE POST
FOOT AND CHECK VALVES
INDICATOR AND
GATE VALVES
2-3 & 4 WAY HYDRANTS

262 TO 268 FRONT ST. EAST. TORONTO.

Montreal Pipe Foundry Co. Ltd.

SUCCESSORS TO
DRUMMOND, McCALL PIPE FOUNDRY CO LTD

MANUFACTURERS OF



OFFICES
CANADA LIFE BUILDING

MONTREAL

LONDONDERRY PIPE FOUNDRY

Cast Iron Water and Gas Pipes, etc.

Londonderry, Nova Scotia

Notice to Contractors

WE can save you money on.....

Granolithic or Crushed Stone

of any size, as we have the most complete plant in
Canada. You will consult your own interests by getting
our prices. We also make a specialty of Slate, Tile,
Granite and all kinds of Stone. Crusher at Jarvis
street wharf

THE POWELL GRANITE & MARBLE CO'Y,
Phone 3440. Office, 482-484 Yonge St., Toronto

PORTLAND CEMENT

For Sidewalks, Pavements, Heavy Masonry and Concrete.

MANUFACTURED BY . . .

Write for Circular
and Prices.

The Rathbun Company
DESERONTO, ONT.

ALEX. GARTSHORE, President. J. G. ALLAN, Secretary and Treasurer. JAS. THOMSON, Vice-President and General Manager.

**THE GARTSHORE-THOMSON PIPE & FOUNDRY CO.
LIMITED.**

Manufacturers of:::



CAST IRON PIPE

3 inches to 60 inches diameter.

For Water, Gas, Culvert and Sewer

Flexible and Flange Pipe,
Special Castings and all kinds of
Waterworks Supplies.

HAMILTON ONT.

WATER WORKS PUMPING MACHINERY

We are prepared to equip Municipal or other Water-Works Plants with Pumping Machinery of the latest and most approved designs. We are the largest manufacturers of Steam and Power Pumps in Canada; they are built in all sizes and capacities, and can be implicitly relied upon wherever used. Several excellent second hand pumps in first class condition for water works service on hand at close prices.

SEND FOR CATALOGUE.

NORTHEY MFG. CO. LIMITED

1015 King Street, Subway, TORONTO, CAN.

INDEX TO ADVERTISEMENTS

In the "Canadian Architect and Builder."

Architects. Ontario Directory....111 Quebec Directory...viii Architectural Sculptors and Carvers. Holbrook & Mollington..... i Architectural Iron Work. Dominion Bridge Co. i Art Woodwork Southampton Mfg. Co. II Artists' Materials. Hearn & Harrison... xi The Art Metropole... III Builders' Supplies. Biemner, Alex. i Montreal Directory... xii O'Neil, Wm..... viii Ontario Lime Association... xii Rice Lewis & Son... IV Toronto Directory... xij Building Stone Dealers. Amherst Red Stone Quarry Co..... x Brodie, James..... x Credit Forks Mining & Mfg. Co..... x Fasey, W. H. x Hood & Son..... vii The Longford Quarry Co..... x Builders' Hardware. Rice Lewis & Son... IV Vokes Hardware Co. xi BRICKS. Beamsville Brick & Terra Cotta Co. vii Toronto Pressed Brick & Terra Cotta Co. v Contractors' Plant and Machinery Rice Lewis & Son... IV Cements. Bremner, Alex. i Commercial Wood & Cement Co..... IV Owen Sound Portland Cement Co..... IV The Rathbun Co. vii Crossed Stairs Cabot, Samuel. IV	Drying Apparatus Cummer & Son Co. 189 Drain Pipe Bremner, Alex. i Hamilton and Toronto Sewer Pipe Co. ix Elevators Fensom, John. I Letch & Turnbull... I Miller Bros & Toml. vi Morse, Williams & Co. xi Embossed Moulding Boynton & Co..... vii Engravers. Can. Photo-Eng Bureau..... viii Folding Partitions. Seaman, Kent & Co. xc9 Sprnger, O. T. xi Fireproofing. Montreal Terra Cotta Lumber Co..... xii Rathbun Co. vii Flag-staffs and Windmills. Gould, Shepley & Muir..... II Grilles and Railings. Dennis Wire & Iron Co. vi Toronto Fence & Ornamental Iron Works. vi Southampton Mfg. Co II Granite Brunet, Jos..... x Brodie, James..... x Stanstead Granite Quarries Co..... x Heating. Boston Blower Co. III Clare Bros & Co..... iv Deminion Radiator Mfg. Co..... i, iii Darling Bros..... 209 General Engin. Co. II Gurney, Tilden Co. ii Jam & Smart Mfg. Co. v Leclard & So. E. IV McClary Mfg Co. v Ormsby & Co., A. B. I Robb Engineering Co. vii Interior Decoration Elliott & Son Company vi	Lime. Ontario Lime Association..... xii Luster Prisms. Luster Prism Co..... x Legal. Denton, Dunn & Boulbee..... III Quinn & Morrison.. III Mantles, Grates, and Tiles. Chas. Rogers & Sons Co..... vi Holbrook & Mollington i Rice Lewis & Son... IV Mail Chutes. The Cutler Mfg. Co.-iii Mortar Colors and Shingle Stains. Cabot, Samuel..... IV Muirhead, Andrew..... i Ornamental Iron Work. Dennis Wire & Iron Co vi Toronto Fence & Ornamental Iron Works. vi Painters. Montreal Directory... xii Toronto Directory... xii Plasterers Hynes, W. J..... 209 Paints & Varnishes Muirhead, Andrew ... i Parquet Floors Elliott & Son Company vi Plate Glass Lyon, N. T..... i The Consolidated Plate Glass Co. ix Toronto Plate Glass Co..... vi Plumbers Montreal Directory... xii Toronto Directory... xii Reflectors Friuk, I. P..... III Roofing Materials Ormsby & Co., A. B. I Metallic Roofing Co. 210	Roofers Campbell & Gilday... xii Duthie & Sons, G.... xii Forbes Roofing Co... xii Nicholson & Co. D. xii Ormsby & Co., A. B. I Reunle & Son, Robt. xii Stewart & Co., W. T. xii Williams & Co., H. xii Nautical Appliances Ideal Mfg. Co..... x The James Morrison Brass Mfg Co ... i Stained and Decorative Glass Bloomfield & Son, Henry..... i Hurwood & Sons, H. i Lyon, N. T. i Leonard, B..... i Mackey Stained Glass Co..... i McKenzie's Stained Glass Works..... i The Robt. McCausland Stained Glass Co..... i Wood & Co..... i Shingles and Sliding Metallic Roofing Co. 210 Ormsby & Co., A. B. I Soil Pipe. Toronto Foundry Co. III School and Church Furniture. Can. Office & School Furniture Co..... viii Gl. be Furniture Co. xi Typewriters. Archib. d, Chas E..... ix Ventilators Boston Blower Co... III Wood & Co..... i Wall Plaster Albert Mfg. Co..... IV Alabastine Co. IV Bremner, Alex..... Wall Paper. Scantlebury, C.B..... vi Wire Lathing The B. Greening Wire Co.,pany..... xi
--	---	--	--

Prices of Building Materials.

PRESSED BRICK, Per M.

TORONTO PRESSED BRICK AND TERRA COTTA WORKS.		
	F.O.B. Milton, Ont.	F.O.B. Montreal.
Red No. 1.....	\$12 50	\$18 00
" 2.....	11 00	16 10
" 3.....	8 00	13 10
Buff No. 1.....	14 50	20 00
" 2.....	13 00	18 50
Brown.....	20 00	25 50
Roman Red.....	18 00	20 50
" Buff.....	30 00	33 50
" Brown.....	35 00	40 50
Hard Building.....	6 00	11 50
" Sewers.....	6 00	11 50
Roofing Tiles, \$20 00 per 1,000, \$23 00 Montreal.		

DON VALLEY PRESSED BRICK WORKS.

DON VALLEY PRESSED BRICK WORKS.		
	F.O.B. Don Valley.	F.O.B. Montreal.
Red A.....	18 00	24 00
Red B.....	15 00	20 00
Red C.....	13 00	17 00
Trojan and Corinthian.....	21 00	28 00
Pompeian.....	22 00	29 00
Athenian and Egyptian.....	25 00	31 00
Tyrian.....	35 00	41 00
Sicilian.....	40 00	45 00
Roman.....	35 00	40 00
Carthaginian.....	40 45	45 00
Ornamental.....	30 00 100 00	30 00 100 00
Common insides.....	6 00	
Hard sewers.....	7 50	
Vitrified sewers, 15ts.....	16 00	22 00
" ands.....	10 00	15 00

COMMON BRICK, Per M.

COMMON BRICK, Per M.		
	F.O.B. Toronto.	F.O.B. Montreal.
Common Walling.....	7 00 8 00	7 50 8 00
Good Facing.....	8 00 9 00	8 50 9 00
Sewer.....	8 00 9 00	8 50 9 00

STONE.

Common Rubble, per ton, delivered.....	10 00	11 00
Large flat Rubble, per ton, delivered.....	14 00	18 00
Foundation Blocks, per c. ft.	30	50
Granite (Stanstead) Ashlar, 6 in. to 12 in., rise oin., per ft.		25
Amherst Red Sandstone, Amherst, N.S., per cub. ft.	1 00	75
Kent Free stone Quarries, Moncton, N.B., per cu. ft.	1 00	95
River John, N. S., brown Freestone, per cu. ft.....	95	95
Port Philip, N. S. Brown Sandstone.....	90	

"Scoria" Paving Blocks, 8" x 3 1/2" x 5".....	55	
"Scoria" Paving Blocks, 8" x 3 1/2" x 4".....	45 00	
Masilton.....	30 00	
Quebec and Vermont rough granite for building purposes, per c. ft. (o. b. quarry)	40	1 00
For ornamental work, cu. ft. Granite paving blocks, 8 in. x 12 in. x 6 in. 2 1/4 in. per M. Grad to curbing stone, 6 in. x 30 in. per lineal foot.....	40	50 00
		70

CREDIT VALLEY STONE.

Rubble, per car of 12 tons.....	7 00	
Brown Coursing, up to 10 in., per sq. yard.....	1 50 to 1 75	
Brown Dimension, per cub. ft.	60	
Grey Coursing, per sq. yard	1 00	
Grey Dimension, per cub. ft.	45	

LONGFORD STONE.

Rubble, per 30 M. car.....	5 00	
Ashlar, per cub. yd.....	2 00	
Dimension, per cub. ft.....	18	

SLATE

SLATE		
	Toronto.	Montreal.
Roofing (W square).....	7 50	20 00
" red.....	8 50	10 00
" purple.....	8 50	7 00 8 00
" unslating green.....	7 50	6 50
" black.....	7 50	25 00
Terra Cotta Tile, per sq.....	22 00	6 80
Ornamental Black Slate Roofing.....		6 80

CEMENT, PORTLAND, etc.

Portland Cements -			
German, per lb.....	2 90 3 10	2 55 2 65	
London.....	2 90 3 00	2 25 2 45	
Newcastle.....	2 70 3 00	1 95 2 10	
" Joseph Bra Portland.....	3 00 3 25	2 70 2 80	
" Dyckerhoff.....	3 05 3 25	2 75 2 90	
North's "Condor".....	4 00 4 10	2 65 2 80	
English, artificial, per bbl.....	2 85 3 00	2 35 2 45	
Belgian, natural, per bbl.....	2 20 2 25	2 00 2 20	
Canadian, artificial.....	2 25 3 00	2 60 2 70	
Roman.....		2 10 2 25	
Parian.....	5 75 5 25	5 75 5 75	
Superfine.....	1 25 7 00	8 25 9 00	
"Karlstadt" (German).....	1 05 1 25	2 75 2 90	
"Germania" (German).....	3 00 3 25	2 75 2 90	
"Rooster" (Belgian).....		2 15 2 20	
"Keyston" (Belgian).....		2 05 2 20	
"A. vil" (Belgian).....		1 95 2 05	
"Burham" (English).....	2 95 3 00	2 25 2 45	
Hydraulic Cements -			
Thorold, per bbl.....	1 50	1 65	
Queenston, ".....	1 50	1 50 1 60	
Napanac, ".....	1 50	1 50	
Hull, ".....	1 50	2 50	
Ontario, ".....	1 25		

Keene's Coarse "Whites".....	5 50	6 00	50 00	5 50
Fire Bricks, Newcastle, per M	30 00	35 00	16 00	21 00
" Scotch.....	30 00	35 00	19 00	21 00
Lime, 100 lbs., Grey.....		25		
" White.....		30		30
Plaster, Calcined, N. B.....		2 00		1 50
" N. S.....		2 00		1 50
Hair, Plasterers', per bag.....	80	1 00		000

HARDWARE.

The following are the quotations to builders for nails at Toronto and Montreal:				
Cut nails, 5d & 6d, per keg	2 10		1 85	
Steel " " " "	2 60		1 95	
CUT NAILS, FENCE AND CUT SPIKES.				
40d, hot cut, per 100 lbs.....	2 60		1 85	
10 to 12d, hot cut.....	2 35		1 95	
8d, 9d, " " " "	2 45		2 00	
6d, 7d, " " " "	2 15		1 75	
4d to 5d, " " " "	2 65		2 25	
3d, " " " "	2 90		2 85	
2d, " " " "	3 25		2 85	
Cut spikes, 10 cents per keg advance.				
Steel Nails, 1cc, per keg extra.				
Wire nails, 3-40 base, 1cc.				

Iron Pipe:

Iron pipe, 1/2 inch, per foot.....	6c.	6c
" " 3/4 " " " "	7	7 1/2
" " 1 " " " "	8 1/2	8 1/2
" " 1 1/4 " " " "	12	12
" " 1 1/2 " " " "	17	17
" " 2 " " " "	24	24
" " 2 1/2 " " " "	30	30
" " 3 " " " "	43	43
Toronto, 65 per cent. discount.		
Montreal, 70 per cent. discount.		

Lead Pipe:

Lead pipe, per lb.....	7c.	25 PER
Waste pipe, per lb.....	7 1/2	cent. dis

Galvanized Iron:

Adam's—Mar's Best and Queen's Head and Opello.		
16 to 24 gauge, per lb.....	4 1/2 c.	4 1/2 c.
26 gauge, " " " "	4 1/2	4 1/2
28 " " " "	5	5 1/2
Gordon Crown—		
16 to 24 gauge, per lb.....	4 1/2	4 1/2
26 gauge, " " " "	4 1/2	4 1/2
28 " " " "	4 1/2	4 1/2
Note.—Cheaper grades about 1/2 c. per lb. less.		

Structural Iron:

Steel Beams, per 100 lbs.....	2 75	2 90
" channels, ".....	2 85	2 90
" angles, ".....	2 50	2 60
" tees, ".....	2 80	2 85
" plates, ".....	2 55	2 60
Sheared steel bridge plate.....		1 90