Technical and Bibliographic Notes / Notes techniques et bibliographiques

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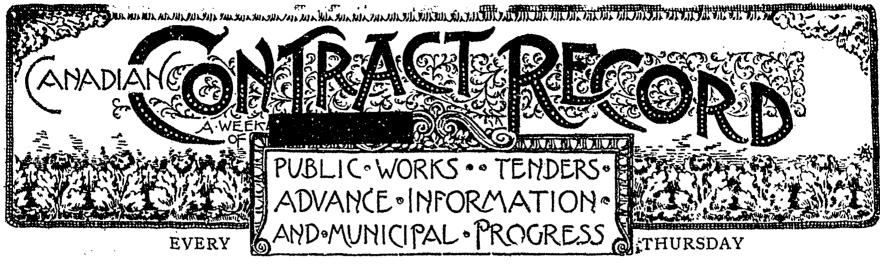
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THIS PAPER REACHES EVERY WEEK THE TOWN AND CITY CLERKS, TOWN AND CITY ENGINEERS, COUNTY CLERKS AND COUNTY ENGINEERS THROUGHOUT CANADA.

Vol. 5.

Toronto and Montreal, Canada, April 27, 1893.

No. 10

ميبة ونأ

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THE CANADIAN CONTRACT RECORD.

PUBLISHED EVERY THURSDAY Intermediate Edition of the "Canadian Architect and Builder."

Subscription price of "Canadian Architect and Builder" fincluding "Canadian Contract Record"), Super annum, payable in advance.

Q. H. MORTIMER, Publisher,

CONFEDERATION LIFE BUILDING, TORONTO, Telephone 2262.
64 Temple Building, Montreal.
Bell Telephone 2299.

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

ADVERTISING RATES ON APPLICATION.

At its Convention held in Toronto, Nov. 30 and 21, 1889, the Untario Association of Architects signified its approval of the OANADIAN CONTRACT RECORD, and pleaged its members to use this journal as their medium of communication with contractors with respect to advertisements for Tenders.

their modium of communication with contractors with respect to advertisements for Tenders.

The following resolution was unantmously adopted at the First Annual Secting of the Frontier of Quebec Association of Architects, held in Montreal, dot. 10th and 11th, 12BD: "Moved by M. Perrault, seconded by K. Perrault, seconded by F. Dundons, that we the Architects of the Provinces of Quebec now assembled in Convention being satisfied that the ANADIAN DONTRAUT RECORD affords us a direct communication with the Contractors,—Resolved, that we pleage our support to it by using its columns when calling for Tenders."

Subscribers who may change their address should give proupt notice of same. In doing we give both old and new address. Notify the publisher of any irregularity in delivary of pater.

BARTER AND EXCHANGE.

This department has been opened for the speedy barter and exchange of second-hand plant or reasonate or small foliate or second-hand materials by builders and others not regularly engaged in the sale of such articles. Advertisements other chan those of the above description will not be inserted.

RATES—12 words and under, 15 cents; each additional word, 1 cent (three figures count one words; on two or more suissequent insertions a discount of 10 per cent, will be allowed. Not more than four insertions of an advertisement can be granted.

Replies to advertisements may be addressed to a box at this effect, in which case notessary stamps must be sent for revealing raplies. Advertisements for this department must be prepaid.

TO DRAUGHTSMEN.—About 24 quires of Whatman's Drawing Paper for sale (Imperial size), only 56 for the lot. Box 131 at this

TENDERS

will be received up till May 3rd from all trades for the erection of a factory on Liberty Street. ans and particulars a

G. M. MILLER'S office 18 King St. East, Totonto.

TENDERS WANTED.

Tenders will be received by the undersigned up to SATURDAY NOON, MAY 67H, 1893, for supplying

Cast-Iron Pipe for a Submerged Main.

Plate and specifications may be seen at the office of this paper. Each tender must be accompanied by a marked cheque or each deposite on a tender of the control.

The lowest or any tender not necessarily ac-

cepted. THOS. F. McGUIGAN, City Clork. Vancouver, B.C., March 36th, 1893.

TENDERS WANTED.

Tenders will be received at the office of the undersigned until SATURDAY, MAY 6711, 1893, for masonry and brickwork, plumbing and bot water heating, &c., and tinsmith's work required in Additions and Alterations to a Residence on Mattland street. Pluns, &c., can be seen on and after May 18t. The lowest or any tender will not necessarily be accounted. after May 1st. The town...
necessarily be accepted.
POST & HOLMES, Architects,
Manning Arcade, Torento,



Notice to Contractors TENDERS FOR PAVEMENTS

Tenders will be received by registered post, addressed to the City Engineer, Teronto, up to 27 o clock, noon, on SATURDAY, APRIL 22ND, 1893, for the construction of the following

avements, on Track Allowances:

Front Street, from Church to Frederick Street,

concrete.

York Street, from Front to Queen Streets, as phalt with toothing.

Gernard Street, from Parlament to River Streets, vitrified brick or cedar with grantte toothing. Queen Street, from Yonge Street to River Don, asphalt with toothing.

Winchester Street, from Parliament to Sumach Streets, vitrified brick or cedar with granite toothing.

toothing.

toothing.

Dunder Street, from Queen to Arthur Streets, asphalt with toothing.

Parliament Street, from Queen to Gerrard Streets, asphalt with toothing.

Parliament Street, from Cartion to Winchester Streets, asphalt with toothing.

Carlion Street, from Yonge to Parliament Streets, actualt with toothing.

asphalt with toothing.

College Street, from Yonge to McCaul Streets, asphalt with toothing.

Bathurst Street, from King to Queen Streets, vitrified brick or cedar with granute toothing.

withhed brick or cedar with granute toothing.

Specifications may be seen, and forms of tender obtained on and after April 18th, 1893, 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 5 per cent, on the value of the work tendered for under \$1,000, and \$2\text{ per cent, on the value of the work over that amount, must accompany each and every tender, otherwise it will not be entertained.

All tenders must bear the bona fide sign arrange.

All tenders must bear the bona fide signatures of the contractor and his sureties (see specifications), or they will be ruled out as informal. The Committee do not bind themselves to ac-

cept the lowest of any tender.

DANIEL LAMB. Chairman of Committee on W. Committee Rooms, Toronto, April 12, 1893. Works

NOTICE TO CONTRACTORS.

Tenders for Pavements on Track Allowances Postponed.

Notice is hereby given that the time for receiving tenders for the construction of pavements on

the TRAOK ALLOWANCES, is postponed from Sazurday, 22nd of April, to Saturday, 23th of April, 1802. At 11 O'clock A. m. DANIEL LAMB.

Chairman Committee on Works.
Committee Rooms, Toronto, April 18th, 1893.



Notice to Contractors

TENDERS FOR

PORTLAND GEMENT

Tenders will be received by registered post, addressed to the City Engineer, Toronto, up to eleven o'clock n.m. on SATURDAY, APRIL 20TH, 1893, for the supply of Portland cement required by the Worns Department for the year ending April 30th, 1894.

Specifications may be seen, and forms of ten tier obtained, on and after Saturday, April 22nd, 1893, at the office of the City Engineer.

A deposit in the form of a marked cheque, paynole to the order of the City Treasurer, for the sum of 5 per cent, on the value of the material tendered for under \$1.000, and 2 per cent, on the value of the material tendered for under \$1.000, and 2 per cent, on the value of the material tendered for over that amount, must accompany each and every tender, otherwise it will not be entertained.

All tenders must bear the bona fide signatures of the contractor and his sureties (see specifications) or they will be ruled out as informal.

The committee on the language of the lowest or any tender.

DANIEL LAMB,

DANIEL LAMB Chairman Committee on Works. Committee Rooms, Toronto, April 19, 1893.

TENDERS WANTED

FOR SIDEWALK MATERIAL

Sealed tenders, addressed to the undersigned by registered mail, will be received up to 6 o'clock p.m. on MONDAY, MAY 187, 1893, for supplying the following materials, viz.:

37,000 feet, more or less, of 424 ceds recentling 2 and 16 feet long, 210,000 feet, more or less, of 2 inch of pine blank, 10 or 12 inches wide and 12 and 16 feet

long, gang sawed.
30 kegs, more or less, of 5 inch nails.

For augs, more or less, or 5 men mais.

The whole of the plank and seartling to be free from rot, shake and large krots, and to pass inspection by the Town Engineer, and to be delivered as required at Toronto Junction on ears, or where required by the Town Engineer within the Corporation, in lots of not less than one car at one time.

Corporation, in lots of not less than one car at one time.

Tenders must state the price per thousand feer of plank and seantling separately.

Tenders must state the price per keg of ordinary cut nails and also sidewalk wire nails. Samples of nails to be submitted.

I enders must be accompanied by a marked cheque equal to 5 per cent, of the contract price. Security to the amount of 20 per cent of the contract price will be required for the proper fulfilment of the cootract.

The Council reserves the right to increase or diminish the above quantities at any time to the extent of 30 per cent.

The lowest or any tender not necessarily accepted.

cepted.
Tenders will not be considered unless made on forms supplied by the Town Clerk and s greed with the neural signatures of tenderers and sureues. All tenders to be, marked "Tender for Side-

walk Muterial."
ROBT. J. LEIGH, Town Clerk.
Toronto Junction, April 20th, 1893.

TENDERS WANTED.

Tenders will be received at the office of the undersigned until FRIDAY, MAY 5711 1893, for the erection of a Brick Residence on Victoria Park; red pressed brick, cutstone, and hot water heating. The lowest or any tender will not necessarily be accepted.

MOORE & HENRY

Albion But

TO CONTRACTORS.

Bulk tenders wanted up 10 5 0 day, 3rd blay, for rebuilding, alt one of the first ing the Crosby Hotel into a Clu thouse. The lowest or any tender not nece Plans may be seen at the office of G. W. KING, Arch Room 11, 94 21' S. F.

to contracture.

Tenders will be received by the way to FRIDAY.MAY-5711, at 6 p.m., to works required to extensive Alterations to St. James Episcopal Ch. Plans and specifications prepared by Goundlock, Architect, Lun.

and all information obtained at C. M. FOLEY on After

The lowest or any tender no cut Dr cepted.

TO CONTRACTORS

Tendeas will be received by up to SATURDAY, MAY off the noon, for the several trades required to the tion and completion of a PRE SED PRU CRESIDENCE on the corner of a recommendation and

Plans and specifications may 1 for after Monday, May 157, and all for tained at the offices of the archive GEO, W. GOU'INLOC

The lowest or any tender

To Sewer Contractors

The Iown of Berlin, One, invites tenders for the construct on of about

5,000 FEET OF PIPE SEWERS.

the town turnshing materials. Plant and specifications may be seen at the Town Engineer's office on and after May 1st. Tendera to be in not tater than May 8th, 1893.

J. M. STAEBLER.

age Commutee. Chairman Sewer

HERBERT J. BOWMAN, Town Engineer,

WATERWORKS PLANT FOR SALE.

For sale, a waterworks plant consisting of two sets of pumping engines in first class order and can be seen at the Parkdale Pumping Station, Toront - the set of all million gain, capacity with fig which, atean a plinder to inches, and as not stroke, gun metal plangers inches diameter and 18 inch stroke, and one set of 1,200,000 gails, capacity, stram cylinder 12 inches and 18 inch stroke, also trokes and 19 inch stroke, also two boilers, a feet diameter, and 25 feet long. The reason for disposing of those is in coines quenter of Parkdele, a suburb, being annexed to the City of Toronto. These are an good as new, and can be purchased at a large induction on cost price, also 1, susfects of 6 noth, and 500 feet of tainch, Ward joint flavible intake pipe. Apply to John Laxton, 245. Queen st. West, Toronto.

CONTRACTS OPEN.

EGANVILLE, ONT .-- A new Methodist-church is to be erected here.

NIAGARA FALLS, ONT.-Mr. W. G. Henry will enlarge his hotel.

RIDGETOWN, ONT.—The Lake Eric & Detroit River railway will erect a handsome new depot

ere. BRANTFORD, ONT.—The Public School Board ill erect a new school building, at a cost of

KINGSTON, ONT.—Tenders for the erection of the new wing to the general hospital will be in-vited in a few days.

HALIFAX, N. S.—Tenders will be called immediately for lighting the-city, the contract to be for a term of three years,

GUELPH. ONT.—The critizens are talking of offering to the Government the old cemetery ground as a site for a drill shed.

CARLTON PLACE, ONT.—A committee of the Town Council has reported \$20,000 as the amount required for the erection of a new town

NANAIMO, B. C.—The construction of an electric tramway between this place, Northfield and Wellington is talked of. Ex-Mayor Hilbern is promoting the scheme.

LAKE MEGANTIC, QUE. — Mr. Geo. M. Stearns, is desirous-of-communicating with a constractor willing to undertake the construction of 1½ miles of roadbed at this place.

Of 15 miles of roadiness as this peace.

BERLIN, ONT.—The corporation will invite tenders in the course of a few weeks for the construction of 10,000 feet of pipe sewers, in addition to those advertised in our present issue.

ST. THOMAS, ONT.—On the 20th of May by-laws will be voted upon by the ratepayers to rause \$15,000 to build a new sewer outlet, and \$2,782 to turn the present markets into stall markets.

FORT ARTHUR, ONT,—Tenders are now being asked for the building of the Port Arthur electric street railway to West Fort-William. The road is to be completed and in running order by July

YORK MILLS, ONT—The ratepayers of School Section No. 3, at a meeting held last week, decided to erect a new two stery trick, achool building on the site of the old school, the cost not to exceed Tlansaum of \$5,000.

THE SUM OF \$5,000.

57 REPROVER, QUE Is it rumored that arrangements—are house made between the school conversationers of the municipalities of Barford and thon to ereot a high school building at an expense of \$5,000.

expr is of \$5,000.

Civernal Court Planders are invited for building in brick addition to the Planet office.—Mr. Ruiley, auchitect, has been instructed to prepare plans for the proposed new Collegiate Institute at Nightar Falls.

GALTY ONT:—The passing yers will be asked to your winther sum of \$5,000 for the extension of the sweeterworks system.—Plans for alterations and additions to W. Mr. G. M. Miller, of 18 King strict c., Tanonto.

String wy Our Mesers Parking & Marren.

SUDMER'S ORT Messes. Perkins & Warren will recover tenders until the 15th of May for the erection of a solid brick in free story hotel in this town, also for the heating of the same by steam or hot water? The plant were prepared by Mr. J. W. Kenney, surchisent, of Collingwood, and may be seen at the National hotel, Sudbury.

may be seen at the National hotel, Sudbury.

HULL, GUE.—Considerable improvements are to be made to the E. BerEddy Co.'s paper mills. The large paper warebouse will shortly be turned into a paper mill, which will be equipped with machinery of the latest design, and C. P. R. engineers have lately surveyed the land with a view of extending the railroad to the company's mills.

mills.

BOWMANVILLE, ONT.—Mr. John B. Martyn has bought the remaining buildings, plant and grounds formerly owned by the Upper Canada Furniture company, whose factory was burned last year and a new company will be formed which will commence operations in the direction of rebuilding the factory. The town will apply to the Ontario Government for authority to grant the company financial assistance

LONDON, ONT.—Messrs, McBride, Jones & Farncombe, architects, arg Dundas street, invite tenders until the 29th inst. for the erection of the following buildings: Brick residence, corner Duffern avenue and Waterloostreet; brick store Dunern avenue and waternous reet; brick store in Pottersburg; brick additions and alterations to store on Dundas street. The above firm have also invited tenders for the erection of a brick rectory for St. George's church, to be located in London West.

WINNIPEG, MAN.—Mr. McCowan, architect, is preparing plans for a new church to be erected by the Presbyterians of Morris, to cost 32,000. It will be heated by hot air and seated with opera chairs, to the number of 200.—G. H. West Chairman Committee on Works, will receive tenders until the 11th of May for the construction of a 2000 on River avenue. Tenders are being called for the erection of a solid brick block on the north west corner of Arthur and McDermott streets, to be fitted up for a printing establishment for the Stovel Printing Company. It will be three stories high and will cost \$9,000.

MONTARAL, OUE.—The commissioners in the WINNIEG-MAN .- Mr. McCowan, architect

MONTREAL, QUE.—The commissioners in the St. James street widening case have completed

their report placing the value of property to be expropriated at 3340,000—A sub committee of the Finance Committee held a meeting on Saturaday last to consider the extension of the Bonsecour market but no definite decision was reached. coar market but no definite decision was reached.
The proposed extension will depend largely on
the action of the Canadian Pacific Railway company, which, it is expected, will enlarge the Dalhousic Square station by extending it as far west
as Bons-cours church. The area of the land to be expropriated is about 31,000 feet.

STRATFORD, ONT.—David G. Baxter, architect, is preparing plans for the following buildings: Presbyterian parsonage at Hespeler, having hot air, plumbing, mantels, etc., cost 32, 500; red brick and cut stone residence for Rev. Panton, this city, with hot air, plumbing, mantels, etc., cost 32,800; addition to residence for Mrs. J. R. Kilburn, cost effect stable and once hours for the \$2.800; addition to residence for Mrs. J. R. Kil-burn, cost \$\$00; stable and coach house for Dr. D. M. Fraser, cost \$1,200; repairs to St. Joseph's church, cost \$200; additions to residence of Rev. Dr. Kilroy, cost \$400; chapel and school room at Loretto convent, cost \$2,000; fitting up a store for McKee Wilson, cost \$800, Tenders for the above work will be received up to the 3rd

store for McKee Wilson, cost \$800, Tenders for the above work will be received up to the 3rd of May.

Ottawa, Ont.—The post-office department has lately felt the necessity of increased accommodation, owing to the development of the country and an officer of the department has gone carefully into the matter and reported in favor of the erection of a new department building on the site immediately in front of the present port-office lying between Dufferin and Sappers bridges, and extending over the Rideau canal to the junction of Sparks and Wellington streets. The project is to build a granite arch-over the canal, and to erect upon this site a building designed to meet the requirements of the post-office department, the ground floor being utilized as the city post-office. The Postmaster General is considering the question and will bring the matter before his colleagues.—E. F. E. Roy, Secretary Department of Public Works, will receive tenders—until the 9th of May for the erection of Quarantine buildings at Lawlor's Island, Halifax, N. S. Plans may be seen at the above department—in this city and at the office of C. E. W. Dodwell, resident engineer, Halifax.

HAMILTON, ONT.—Mr. W. A. Edwards,

dein engineer, Halifax.

HAMILTON, ONT,—Mr. W. A. Edwards, architect, will receive tenders until the 30th inst. for the erection of a Baptist church on Victoria avenue north.—Local architects are said to be preparing plans for the new Collegiate Institute building to be erected on the O'Relly property, with the expectation that the Board of Education will invite competitive designs.—The proposed improvements at Centenary Methodist church are estimated to cost 350,000.—The old stores of Thos. C. Watkins on King street will be pulled down in a few days to make room for the building of the last section of his new premises.—The Finance Committee has passed a resolution that the sewers committee he authorized to build a the sewers committee be authorized to build a sewer on Bold steeet, from Locke street to Hess sewer on Bold steeet, from Locke street to Hess street and thence to Rob noon street, at a cost of \$12,800.—Building permits have been granted as follows: H. H. Hurd, two story brick dwelling on Bay street, between Hannah and Herkimer streets, cost \$6,000; Gurney, Tilden Co., stone addition to their moulding shop on King William Street, cost \$2,500; John F. Milne, brick addition to Burrow. Stewart & Milne's foundry, cost \$6,000; W. R. Robson, two story brick dwelling on Locke street, between York and Barton streets, cost \$1,500; James Cook, brick dwelling on Stanley avenue, cost \$1,100.

TORONTO, ONT.—The City Council has decid-

streets, cost \$1.500; James Cook, brick dwelling on Stanley avenue, cost \$1.100.

TORONTO, ONT.—The City Council has decided to make the necessary changes in the east swing of the City Hall so as to provide extuaroom for the city solicitor's office. The cost of the work will be about \$1.000.—The council has adopted the recommendation of the City Engineer to repair the old pumping engines, at a cost of \$7.400.—Extensive alterations and additions are to be made to the premises situated at the north-cast corner of Wellington and Jordan streets. Mr. J. McBean of 1 Toronto street will prepare the pians.—We learn that the building on the south side of King street now occupied by Messrs. Michie & Co. is to be pulled down to make room for a new structure, which will extend from King street to Melinda street, a depth of 170 feet, and having frontage of 30 feet on each street. It will be four storeys high and have a fine basement, giving floor space of upwards of \$5,000 square feet. The building will be constructed of red brick with brown stone facings, and will be fitted up and equipped with erry premises and is to be completed in November,—The City Council has granted permission to the Industrial Exhibition Association to mortgage their buildsoon as the time can move to temporary premises and is to be completed in November,—The City Council has granted permission to the Industrial Exhibition Association to mortgage their buildings on the grounds for the purpose of raising funds with which to erect new buildings required, such as sheds, stables, etc.—Mr. M. Baldwin, Harbor Master, invites tenders until the 18th of May, for covering the sides and roof of the elevator at the Queon's wharf with galvanized iron, also for dredging the harbor during the year. Specifications may be seen at the office of the Harbor Master, in the Board of Trade Building.—Building permits have been granted as follows: H. A. Massey bk. music hall and store. s. w. or. Shuter and Victoria six, cost 500,000; Sir J. L. Robinson, bk. additions and alterations to stores, n. e. cor. Wellington and Jordan six. cost \$50,000.—Mr. G. M. Miller, of 18-King st. E. is still open to receive tenders for the several

trades in erecting the music hall as advertised last work.

FIRES.

The residence of Thomas Hastings, 337 Leslie street, Foronto, was damaged by fire to the extent of \$1,000.—The establishment of Messrs, Mongenais & Bowin, plate glass manufacturers, on St. Paul street, Montreal; was discovered to be on fire on Sunday morning; and was badly damaged, together with the adjoining premises of Messrs, Racine & Co., dry-goods merchants. The loss is estimated at \$78,000, which is mostly covered by insurance.—The residence of Mr. Fred Wilson, on the Lake Shore road near St. Catharines, was completely destroyed by fire last week. Nearly all the furniture was saved. The house was worth \$3,500; insurance \$1,600—Joanist *3pianng mill sash factoryfat Buckingham, Que., have been completely destroyed by fire.—The residence of Mr. Toussaint Deslauriers, at Ste. Jose, Que., was burned to the ground on Monday night, loss \$7,000.—Messrs. Trotter Bros. warehouse on Grey Nun street, Montreal, was damaged by fire textland fast the strent of \$3,000.—The retail hardware store of James Robertson & Co., on Main street, Winniper, was damaged by fire last week to the extent of \$3,000. The retail hardware store of James Robertson & Co., on Main street, Winniper, was damaged by fire last week to the extent of \$3,000. The building is Edward Maher, furniture; R. Watkins, barber; W. Bassett, butcher shop and dwelling; Ell Beaund, bardware. The block was owned by G. M. Gibson.—Trinity College school at Port Hope, Ont., was denarged by fire on Monday last to the extent of \$3,000. The building was owned by Mr. W. I. Idsardi, and was insured for \$3,500.—Four houses on Gladstone avenue. Toronto, owned by Mr. W. I. Idsardi, and was insured for \$3,500.—Four houses on Gladstone avenue. Toronto, owned by Mr. W. I. Idsardi, and was insured for \$3,500.—Four houses on destroyed, some of the building and develling; Church and parsonage and Paton's store and dwelling. The total-loss of property is said to be about \$300,000, Messrs. Burton Bros. being the heaviest losers.

CONTRACTS AWARDED.
STRATPORD, ONT.—D. G. Baxter, architect, has awarded the contract for the erection of the Mayer's block to Mr. E. A. Cawsey, of St. Mary's.

Mayer's block to Mr. E. A. Cawsey, of St. Mary's.
WOODSTOCK, ONT.—It is said that the contract for furnishing the new C. P. R. Hotel at Quebee has been secured by the Hay. Furniture Co., of this place. The price is in the neighborhood of \$45,000.
VICTORIA, B. C.—The contract for building the Nelson & Fort Sheppard Railway has been let to Peter Larson, the well known Great Northern contractor, at a sum of \$800,000. Work will begin simultaneously at both ends.

begin simultaneously at both ends.

Toronto, Ont.—It is understood that the contract for the completion of Messrs. Ellioit & Neelon's contract of the new city and county buildings will be awarded to Messrs. Brown & Love, of this city, and that the contract price is in the neighborhood of \$505,000, although no definite decision has as yet been made public. The architect has stated that a report will be presented during the present week.

sented during toe present week.
the erection of a church in the parish of Grand
Rivière, Gaspé, to be framework on stone foundations, shingle roof, steephe with galvanized iron
roof, etc., altars, pews, but no inside decoration,
price \$1,550; to Jos. St. Hilaure, of St. Romuald,
for the woodwork, painting, carving, gilding, etc.,
for the inside decoration of the church of St.
Apolinaire, Lotbinere, Rev. C. N. Paquet,
curate, price \$6,500.

COURTERAL, QUE.—Mr. R. Parker, has been awarded the contract by Messrs. Armstrong & Cook for the construction of sewers at Montreal Junction.—Messrs. Taylor & Gordon, architects, have awarded contracts as follows: for the erociton of the Bank of Toronto, in this city: mason: Wighton & Morrison; brickwork, A. Cowan; carpenter work, Simpson & Peel; plumbing, McRea and Watson; roofing. E. Chanteloup; marble and Tiles; R. Reid; painting and glazing, Geo, S. Kimber; plastering, John McLean; cast and wrought iron. E. Chanteloup; elevators, Lomer & Roes. (the Oris); vaults and doors, J. & J. Taylor; carving, Holbrook & Mollington; steel beams, columns &c. Dominion Bridge Co. QUESEC, QUE.—David Ouellet, architect, has

QUEBEC, QUE.—David Ouellet, architect, has awarded a contract for the erection of a new onwent, to be built at Quebec, on Grand Aliee, the property of the nuns, "Franciscaines." The vent, to be built at Quebec. on Grand Allée, the property of the nuns, "Franciscaines." The building is to be 60' x 35', four stories high, stone and brick, galvanized iron roof, hot water heating apparatus. water closest, bath, etc. M. F. Marois, masony, \$5,000; M. E. S. Pierre, carpenter work, \$5,500; M. O. Picard, plumbing and heating, \$1,100; M. M. Gautier & Frères, painting, \$950.—The same architect has awarded contracts as follows: to Thos. Bernier, of Cap. St. Ignace, for the woodwork, painting and gildling, of the inside decoration of the church of St. Eugène 1slet, Rev. Mess. 'Ad. Michaud, curate, price \$6,500; to Alf. Matte, of Rimouski, for DATA FOR STEAM FITTERS.

A gallon of water contains 23t cubic inches and weighs 81/2 pounds.

The friction of water in pipes is as the square of the velocity. If the velocity is doubled the friction is increased four times.

The capacity of pipes is as the square of their diameters; doubling the diameter of The increases its capacity four times.

The height of a column of fresh water, equal to a pressure of one pound per square inch, is 2.31 feet, making no allow-

ance for friction, which, if taken into account, would make the height 2 feet only. For facility of computation, the weight of a cubic foot of water is taken at 1000 ounces and 6.25 pounds, 1000 divided by 16 (16 ounces=1 pounds) gives 62½

At a temperature of 212° the weight of a cubic foot of water is 59.675 pounds. Below 39 its density decreases, at first

very slow, but progresses rapidly to the point of congelation, the weight of a cubic foot of ice being but 57.25 pounds. Water is a very bad conductor of heat. The metals are good conductors.

Conduction consists in each particle taking up the motion of its neighbor and passing it on.

By convection we mean the passage of heat from one portion of the fluid to another by a transfer of the particles

The temperature of steam is always the same as that of the water from which rises.

MUNIGIPAL DEPARTMENT.

LEGAL DECISIONS AFFECTING MUNICIPALITIES.

WATER COMMISSIONERS OF THE TOWN OF WINDSOR V. CANADA SOUTHERN RAILWAY CO.—Judgment on an appeal by the defendants from the judgment of the county court of the county of Essex in favor of the plaintiffs in an action to recover \$200 in respect of water rates inposed upon the defendants as owners of certain real property in the town of Wind-sor, formerly in the township of Sandwich West. The defence set up that the rate West. The defence set up that the rate had been imposed by the plaintiffs without regard to any special advantage or benefit to be derived by the defendants from the water service; that it was, if legal a tax, and as such a charge, unless paid, upon the lands, and that under a by-law of the township of Sandwich West the lands in question were exempt from taxation, and were therefore not subject to these rates. Appeal dismissed with costs.

REG EX REL PERCY V. WORTH.— Judgment on appeal by the defendant from an order of the master of chambers in a quo warranto proceeding under the municipal act unseating the defendant as deputy reeve of the town of Bowmanville, vacating the office and ordering a new election. The first ground of the appeal was that the relator did not show any in terest to entitle him to be heard complaining of the election. By sec. 187 of the municipal act, 55 Vic., ch. 42' the relator must be a person who has voted or tendered his vote or a candidate at the elec-tion. The relator here merely described himself in his relation as "a voter," but did not say that he had voted, tendered his vote or been a candidate at the election. It appeared, however, by affidavit, that the relator was a candidate contended that there was no jurisdiction unless the relator's status were shown by his relation, and that there was no power to amend, citing Reg. ex rel., Chauncey v. buildings, 12.P. R., 404. The second ground of appeal was that there was no reason for unseating the respondent. There were three candidates at the election: Percy, Boyle and Worth (the defendant). Percy re-ceived the largest number of votes, Boyle was next and Worth last. Percy dis-claimed under sec. 204, and Boyle then became entitled to the seat. Boyle also disclaimed before the day for taking office came round, and Worth took the seat and declaration of the office. The master held that Boyle could not disclaim, not having been elected. The defendant contended

MUNICIPAL ENGINEERS, CONTRACTORS, AND MATERIALS.

that he was entitled to hold the seat upon the true construction of sec. 203 of the act. As to the first point, the learned judge holds that the relator should be allowed to an end his relation under rule 444. As to the second point, the learned judge remarked that the que non turns upon the meaning to be placed upon the words, "person elected", in sec. 203 and "election in sect 205, and is of opinion that every person becoming entitled to the office of reeve, deputy reeve, etc., otherwise than under sec. 186 is to be regarded as "elected" to the office, and the process by which be becomes entitled to it as an by which he becomes entitled to it as an election. As soon as it is conceded that the person becoming entitled to a sear by the resignation of the candidate who received the largest number of votes may be attacked under sec. 187 and may claim under sec. 200, then it follows from the words of sec 204 that upon his dis-claimer the candidate next to him becomes entitled to the seat, because sec. 204 applies not only to disclaimers under sec. 303, but also to those under sec. 200. The relator is in this dilemma. If the respondent holds or claims the seat by virtue of an election, and is a person elected to it, then the construction of secs, 203 and 204 necessarily entitles him to the seat and if he does not hold the seat by election, then the act does not authorize an attack upon him by notice of motion at all. Appeal allowed and motion of relator dismissed with costs.

Town of Barrie v. Wilmouth. Judgment on appeal by the plaintiffs and their solicitors from an order of Galt, C. J., affirming an order of the local judge at Barrie striking out the name of the town of Barrie as a party plaintiff to the action and ordering the solicitors to pay costs of the application. Action to restrain the infringement of a livery by-law of the municipality. The proceedings were taken for the benefit of the plaintiff Cooke, who had complained of the breach of the by-law as a nuisance and executed a bond indemnifying the corporation against costs of the action. The mayor of the town did not give a certificate under seal authorizing Town of Barrie v. WLYMOUTH. not give a certificate under seal authorizing the issue of the writ, though directed to do so by a resolution of the Municipal Council. The defendants took the objection that the solicitors for the plaintiffs had not been formally retained by the corporation and had no authority to act, and this connection was sustained by the local judge, and, on appeal, by Galt, C. J. Or-der varied by making the plaintiffs other than the town of Barrie liable for the costs. Appeal other wise dismissed with

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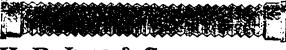
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Quebec and Vermont granite for building	g pur-				
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Rocfing (\$ square).

" red....
" purple...
" untading green
black...

unhading green | 0.50 |
black | 8 co |
Terra Cotta Tile, per \$9... | 22 co |
Ornamental Black Slate Roofing. | 8 co |
PAINTS. (I* cil. ♦ lb. |
White lead, Cas., per 100 lbs. 6 25 6 50 |
rinc, Can., | | 650 7 50 |
Red lead, Eng. | 5% 6½ |
venetian, per 100 lbs. | 160 175 |
venetian, per 100 lbs. | 100 175 |
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Vermillion. | 90 100 |
Vellow ochrome. | 5 10 |
Yellow chrome. | 25 20 |
Green, chrome. | 7 12 |
Paris. | 25 40 |

SLATE.

Tor	onto. Montr	eal.		Terente.	Montreal.
Black, lamp I	5 25 12	25	3d to 5d cold cut, not polished		
Blue, ultramaring	g g Ó 12	25 18	or blued, per 100 lbs	90	90
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Calcined plaster, per barrel		1 70	34 " " " "	1 75	75
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Lime, Per Barrel, Grey White	40		3 inch, per 103 lbs.	85	85
Plaster, Calcined, N. B	\$5 200		2½ and 2½ " " "	1 00	100
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Hair, Plasterers', per bag 80			1% and 1% " "	I 35	1 35
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or blued, per 100 lbs	50	50	Sheared steel bridge plate	2 25	2 35
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