This paper reaches every week the Town and City Clerks, Town and City Envineers, County Clerks and County Engineers, Purchasers of Municipal Debentures and leading Contractors in all lines throughout Canada.

VOL. 12.

#### **OCTOBER 2, 1901**

No. 35

#### THE CANADIAN CONTRACT RECORD,

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

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

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#### TO ARCHITECTS

ARCHITECTURAL DRAUGHTSMAN DESIRES A POSITION. Address Box 90, Contract Record.

#### Wanted

Architectural Student. Must have good educa-tion and some aptitude for the profession.

GORDON & HELLIWELL

Confederation Life Building

#### CONTRACTING MANUFACTURERS

A young man with good education and address desires employment with a contracting manufacturing firm where there wont, be opportunity to advance. Understands shipping and freighting of merchandise and material, and has done some travelling. Apply llox 38, CONTRACT RECORD.

### PUMPS AND WATER WHEELS FOR SALE

1 right and 1 left hand 48 inch Leffel Water Wheels
2 No. 6 Rotary lumps with large air chamber shafting, gearing and boxes complete
1 large Escapt Valve and connecting pipes. See The above are in good condition and will be sold cheap. For further particulars apply to

J. W. SANDERS, Town Clerk.

Port Hope, 25th Sept., 1901.

### COAL TAR FOR SALE

Would Contract to Supply Year's Output.

APPLY TO

Stratford Gas Co. STRATFORD, ONT.

#### To Excavators.

Tenders for removing trees, fences, etc. and explanding on a moves dy Avenue will be received by the undersigned up to s.p.m., Friday, October 4th.

GOUNLOCK & BAKER, Architects, 714 Temple Building, Toronto.

### TENDERS WANTED

#### HOUSE OF REFUCE

Scaled tenders will be received by the under-signed until TUESDAY NOON, OUTOHLE STA-LOOL, for the erection of a House of Refuge for the County of Ontario Plans and specifications may be seen at the offices of the architects, G M Miller & Co. 50 Young street, Toronto; of James Carnegie, Chairman of the Building Committee. Fort Perry, and of the County Clerk, Whitby. The lowest or any tender not necessarily ac-cepted.

JNO E FAREWELL. County Clerk, Whitby.

#### TENDERS FOR A BRIDGE

#### Township of Harwich

Tenders will be received by the undersigned up to FRIDAY, OCTOBER 23711, 1901, inclusive, for the construction of a

#### Steel Pile Trestle Bridge,

75 feet long, in a spains of 25 feet each according to plans and specifications by W. to Mexicorge, c.L., of Chatham, out., over Meering is Served. In the Township of Harwich.

Plans and specifications may be seen at the Clerk soffice in Blenheim, or may be obtained by writing to the clerk.

The lowest of any tender not necessarily accepted.

GEO M. BAIRD, Township Clerk, Blenheim, Ont.



Scaled tenders addressed to the undersigned and endorsed. Tender for Heating apparatus, Windsor, Ont.," will be received at this office until FRIDAY, OCTOBER 470, "aclusively, for the supplying and placing in position of a heating apparatus at the Drill Hall, Windsor, Ont. according to plans and specification to be seen at the Department of Public Works, cuttawa and at the office of Charles smith Clerk of Works, Windsor, Ont.

Tenders will not be considered unless made on the form upflied, and signed with the actual signatures of tenderers.

An accepted chapte on a chartered bank payable to the order of the Minister of Public Work, equal to the order of the Minister of Public Work, equal to the order of the Minister of Public Work, equal to the part of coline the contract of fail to a upder the wirk contracted for, and will be returned in case of non-acceptance of tender.

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

lawest or any tender.

By order,

Department of Public Works.

FRED, GELINAS,

Serretary.

Ottawa, September 17th, 1901. Newspapers inserting this advertisement without authority from the Department will not be faild for it.

#### Tenders for Cast Iron Water Pipe, Special Castings, Hydrants and Valves.

Scored tenders, addressed to Chairman 1 ire, Water and Light Committee, for the supply of a quantity of cast from Water Pipe, with special cassings, Hydrauts and Valves, will be received at the office of the und signed up to 12 o'clock

#### Friday. October 4, 1901

Specifications and forms of tender may be obtained at the office of Col. II. N. Ruttan, City Engineer, Winnipeg Canada.

Lach tender must be accompanied by accepted cheque or cash deposit for the sum called for in form of tender supplied, which will be subject to informed tender supplied, which will be subject to infortence in case of failure to enter into a written contract with approved sureties if called upon to do so.

The city reserves the right to reject any or all tenders or to accept any bid which appears advantageous to the City of Winnipeg.

C. I. BROWN.

City Clerk's Office, Winnipeg, Sept. 18, 1901.

C. J. BROWN, City Clerk.

## Corporation of Three Rivers City

Scaled tenders will be received at the office of the undersigned until 40% look p.m., MONDAY, THE TWENTY-FIRST (128T) DAY OF OCTOBER NEAT, for the purchase of Debentures of the following denominations—st. Marine Bridge founds, (to the amount or one hundred and twenty five thousand dollars (\$22,000). Drainage Bonds, (to the amount of twenty-five thousand dollars (\$25,000). Taving Bonds, to the amount of twenty-five thousand dollars (\$25,000). Taving Bonds, to the amount of twenty-five thousand dollars (\$25,000), and collars (\$10,000), and searing interest at the rate of three and a half per cent (12 per per minim) payable semi-annually.

L. T. DESAULNIERS,

L. T. DESAULNIERS, Sec.-Treas Thece Rivers Corporation.

City Hall, Three Rivers, 2sth Sept., 1991.

#### DATE OF PUBLICATION

Architect, engineers, municipal authorities and others are reminded that the CONTRACT RECORD is printed every Tuesday afternoon, and that advertisements should reach the office of publication not later than 2 o'clock p.m. on that day to insure insertion in the issue of the current week. Advertisements are frequently received too late for insertion, to avoid which special attention is directed to this announcement.

Gillespie & Grier, planing mill, Parry 2 Sound, Ont., are announced to have as. in signed to F. R. Powell. mul

Carroll Bros., plumbers, and Josephine Charlebois, contractor, Montreal, have ril filed consent of assigment.

#### CONTRACTS OPEN.

EDMONTON, N. W. T.—M. Leclerc is building a new residence

WESTMOUNT, QUE. - James Elliott has purch used property on Greene avenue.

OWEN SOUND, ONT.—Steps will be taken at once to lay additional cement sidewalks.

SARNIA, ONT.—William C. Dillion has purchased property on which he will erect a brick block.

RIDGETOWN, ONT.—It is reported that Howard township will erect a township hall, at a cost of \$5,000.

DUNNVILLE, ONT.—The Ontatio Beet Sugar Co. are considering the erection of a factory at this place.

MARMORA, ONT.—It is the intention of The Pearce Company to install stave and heading machinery.

KINGSBURY, QUE.—Tenders are invited by George Lyster up to 8th inst. for building addition to school house.

DIGBY, N. S.—Land has been purchased here for a new summer hotel, to be built in time for next year's business.

GALT, ONT.—The Board of Trade has endorsed the proposal for the establishment of a beet sugar factory in this town.

RICHIBUCTO, N. B.—The Government has selected a site on Water street for the proposed post office and custom house.

RAYSIDE, ONT.—W. H. Sutherland is asking for tenders up to October 5th for construction of the Bott drain, in West Zorra.

EHNISKILLEN, ONT. — Tenders are invited by William McDonnell, up to October 5th, for purchase of \$604 5 per cent. debentures.

KINGSTON, ONT.—It is possible that a petition may be presented to the C. P. R. asking that company to build a summer hotel here.

ORILLIA, ONT.—The civic authorities are looking into the question of the most smulble sewerage system to be constructed for the town.

LINDSAY, ONT.—Victoria county proposes to take advantage of the Government appropriation for building roads throughout the province.

1ROQUOIS, ONT.—The ratepayers yesterday voted on a by-law to raise \$12,000 for installation of electric light plant. Result not learned.

ST. THOMAS, ONT.—The Port Stanley Gravel Road Co. will build a new bridge to replace the one north of Rudolph & Begg's brewery.

VICTORIA, B. C—The Provincial Lands and Works Department are this week taking tenders for the erection of a Government office at Albern.

POINT EDWARD, ONT.—1. is said that the Grand Trunk Radway Co. will begun at once to build a steel elevator to replace the one burned last week.

SOUTHAMPTON, ONT.—The bylaw to raise \$16,000 for construction of system of waterworks will be submitted to the ratepayers on October 14th.

GLACE BAY, N. S.—Tenders for heating, ventilating and plumbing new hospital are invited up to 5th inst. Plans at the office of Hopson Bros., Sydney.

TORONTO JUNCTION, ONT.—
J. A. Ellis, architect, has prepared plans for a large residence to be built on High Park avenue by Mr. McConnell, engin-

NEW WESTMINSTER, B. C.—The Pacific Coast Lumber Co. have applied for a lease of certain water lots on which to build a large saw mill.—It is expected that construction work will begin immed-

iately on the new railway line between this city and Vancouver, to connect with the Great Northern.

LEVIS, QUE—The Mayor has received a communication from an English syndicate of capitalists regarding the construction of a waterworks system here.

BROCKVILLE, ONT.—B. Dillon, architect, invites tenders up to 3rd inst. for erection of snimmer residence near Jones' Falls, Ont., for A. L. Fenessy, of New York City.

GEORGETOWN, ONT.—The ratepayers will this month vote on a by-law to grant a bonus of \$10,000 to Arnold Bros., leather goods manufacturers, who wish to locate here.

RODNEY, ONT.—The township of Aldborough invites offers up to October 1st for purchase of abou. \$11,000 4 per cent. debentures, Particulars from E.A. Hugill, township clerk.

ELORA, ONT.—The ratepayers will ask the council to submit a by-law to grant a bonus of \$25,000 to Mr. Mundell to enable him to account the Bun property and build an addition to his factory.

HINTONBURG, ONT.—It is probable that an addition will be built to the Methodist Church.—In connection with the agitation for municipal ownership of electric lightning, it is stated that a plant could be installed at a cost of \$4,000.

PORT HOPE, ONT.—The Nicholson File Co, of Providence, have purchased the works of the Globe File Mfg Co. It is the intention of the purchasers to increase the present plant in the event of exemption from taxation being granted by the council.

ST. JOHN, N. B.—Plans have been prepared by F. N. Brodie, architect, for a double tenement house to be built by James Sproule.—Russell Sage, of New York, has purchased the South Shore Rulway between this city and S. Stephen and will put it in running order.

QUEBEC, QUE.—It is likely that Witham McLimont & Son, wholesale dry goods merchants, will build a new store in Lower Town.—It is reported that American capitalists are forming a junt stock company to build a new palace hotel here, in the viciaity of the Plains of Abraham.

HAMILTON, ONT.—A. W. Pecne, architect, is taking tenders from some trades for another large addition to the factory of F. W. Fearman & Co.—Thomas Reid has been granted a permit for a brick dwelling house on Shermin avenue, between Cannon and Birton streets, to cost \$900.

HULL, QUE. — The Consolidated Fhosphate Co., of Toronto, propose building a factory here for the manufacture of fertilizers, the machinery of which would cost about \$40,000.—John Kennedy, C. E., of Montreal, has been engaged to advise regarding the work under way on the water works system.

SYDNEY, N. S.—The Dominion Iron & Steel Co. invites tenders up to

October 20th tor quarrying, crushing and delivering f.o.b. vessels or cars about 300,000 tons of stone per year, to be tiken from the quarties at Marbie Mountain and George's River. Work to begin November 1st. A bond of \$10,000 must accomp.any each tender.

COLLINGWOOD, ONT. — Thomas Gibson has decided to erect a brick residence on the corner of Pine and Fourth streets.—E. S. Brown is taking tenders on brick addition to his store.—The council has given notice of its intention to construct cement sidewalks to cost \$5,346.—Mr. Goodmurphy intends to erect a residence on Cedar street.

LONDON, ONT.—The Canadian Pacific Railway intend erecting a handsome office building on Trafalgar Square. The plans, prepared by Bruce Price, architect, of New York, are now awaiting the approval of Mr. Shaughnessy.—John Collins is building a frame cottage on Blackfriars street.—Herbert Matthews, architect, is calling for tenders for a new residence on A'bert street for J. W. Westervelt; also a new residence in South London for L. Jeffery.—T. H. Haskett, of Princess avenue, is building a brick cottage on Oxford steeet.

MONTREAL.-It is said that the Minister of Public Works has refused to sanction the plans accepted by the Harbor Commissioners for proposed million bushel elevator, the contract for which was given to J. A. Jamieson. It seems that the contractor's idea is to build it of composite material, whereas an all-steel elevator is demanded by the Govern-ment.—The municipality of St. Louis is ment.again discussing the question of a bonus of \$16,000 to N.O. Grophe & Co. to establish a cigar factory.—The South Shore Rulway Co. is about to issue bonds to be applied to equipping and reballasting the road, erecting new stations and purch ising rolling stock.—Hutchison & Taylor, architec s, are letting contracts for the new building for the Point St. Charles Railway Association.—The accommodation at the Y.M.C.A. is inadequate, and steps may be taken at an early date to erect a new building. R. E. T. Pringle, F. H. Leonard, jr., E.E. Ciry, and others, of this city, have been incorporated as the Ampere Étectric Manufacturing Co., to manufacture electrical apparatus and to engage in the development of electric energy.

OTTAWA, ONT.—G. Gelanis, secretary Department of Public Works, invites tenders up to Friday, 4th inst., for installing heating apparatus in drili hall at Windsor. Plans at above Department and at office of Charles Smith, clerk of works, Windsor.—A new Hebrew synagogue to replace the one on Murray street will be built in the Sandy Hill district. It is to be completed by the end of next year.—Roland Miller, of Montreal, and V. H. Lyon and others, of this city, have been incorporated under the name of the Canadian Power Co., with a capital stock of \$25,000.—Beilding permits have been granted as follows: American Bink Note Co., raising present building two storeys and erecting store

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THE PATERSON MANE'C CO., LIMITED TORONTO MUNTREAL ST. JOHN HALIFAX

The state of the s

th Marie

house 2 Wellington st., cost \$25,000; Ottawa & New York Railway Co., addition to workshops Nicholas street west, cost \$4,000; T. Lemay, alterations and addition to warehouse 1 Murray st., cost \$3,500; James Usher, two brick veneered dwellings 31 Queen st., cost \$2,400; W. H. Lester, brick veneered dwellings 21 Second ave., cost \$1,200; James Whyte, brick veneered dwellings 1 James st., cost \$1,100; Dr. J. L. Chabot, brick dwellings, Theodorest., cost \$6,000; Ald. D. Storey, addition to store 19 Bank st., cost \$1,500.—Tenders close October 11th, at the Department of Public Works, for installation of heating apparatus in drill hall at Brockville, Ont.

VANCOUVER, B. C .- The Chinese Empire Reform Association have decided to erect a building at the corner of Carroll and Dupont streets, to be of brick and stone, and to cost about \$20,000. It will be used as a Home.—The Stave Lake Power Co.'s negotiations with eas' ern capitalists, for the financing of the proposition, has been completed. The money for development is being furnished by Stone & Webster, of Boston, and work will begin at once in connection with the installation of the plant. Power, will be transmitted to Vancouver and New Westminster. The cost of the work is estimated at \$05,0000, including \$280,000 for a tunnel two miles in length, dam, etc., and \$385,000 for generating plant and pole line.—W. R. Wilson, architect, has prepared plans for a threestorey annex to the business premises of E. G. Prior & Co. It will be of brick, 60 x 60 feet.—A Pugent Sound lumberman has chosen a site here on which to build a shingle mill.—William Blackmore & Son, architects, are this week taking tenders for erection of two residences for R. Robinson.-Mr. Grant, architect, is preparing the working drawings for the proposed Carnegie library, and tenders for construction will be invited within a few days.—The Chinese Reform Association have had plans prepared for a large business block to be built in this city, to cost about \$12,000.—The Vancouver cost about \$12,000.—The Vancouver Engineering Works, of which George Walkem is manager, will build a new shop and probably add a foundry. The company may also engage in ship-build-

WINNIPEG, MAN.—Tenders have just been taken by the city for the erection of a crematory building.—The following works have been authorized by the city council: Sewers—Nassau street, Spadina avenue to Gertrude avenue, cost \$4,065; Henry avenue, cost \$5,100; Corydon avenue, from Prembina street to C. N. Railway track, cost \$1,320; Wellington Crescent, from River avenue to Spadina avenue, cost \$1,625; River avenue, from Syndicate to Ruchel street, cost \$1,425; Sherbrooke street, from Notice Dame to Sargent, cost \$3,050; McMicken street, from Sargent to Notre Dame avenue, cost, \$2,770; portions of Shurman street, Alexandra avenue and Yante street, cost \$6,500; Jarvis avenue, Charles to King street, cost \$2,360. Macadam pavements— King street, from Point Douglas to Flora avenue, cost

**\$**6,780 ; Pembina street, Corydon avenue to Arnold street, cost \$11,750; Jarvis avenue, Main street to Hallet street, and a portion of Hallett street, cost \$5,390. Asphalt pavements - Notre Dame avenue, from Portage avenue to Charlotte street, cost \$21,050; Assimbome avenue, Donald to Main street, cost \$21,385; Balmoral street, Qu'Appelle avenue to Portage avenue, cost \$7,510.— The building at present occupied by the Lake of the Woods Milling Co., corner James and Main streets, has been purchased by a Brantford gentleman, who will remodel it.—A Chicago syndicate, represented by H. Burkholder, purposes building a seven storey apartment house in this city, at a cost of \$200,000. Plans for same have been prepared by Ernest Kennedy, architect, of Minneapolis, and provide for a seven storey fireproof building, 200 x 120 feet, containing 60 suites of from 51x to seven rooms, and 40 bachelor suites of from two to three rooms. site selected is at the corner of Smith and Ellice streets.

TORONTO, ONT. — Fred Kent, of the firm of Ambrose Kent & Sons, proposes to erect a residence, probably in Rosedale. — Hon. George E. Foster, ex - Minister of Finance, has purchased a lot on the west side of University avenue, between Caer Howell and Orde streets, and will begin at once the erection of a large high-class flat house similar to the one on St. George street.—President Herriman, of Lindsny, in his address at the Conference of Charities and Corrections last week, advocated the erection in Algonquin Park of a sanitorium for consumptives.—
The residents on Wardell street are about to petition for a new pavement.—
The works committee of the city council have recommended an expenditure of \$7,000 in the reconstruction of the western garbage crematory.—Charles B.

Jennings, of the Imperial Varnish Company, has purchased land on Howard avenue and intends building a residence next spring. A. E. Ames & Co. have purchased the block on the cast side of Jordan street, from King to Melinda streets. It is expected that a large building will be erected on the property.—Herbert G. Paull, architect, has commenced the erection of a large pair of residences on Bathurst street, and is preparing plans for a large refreshment pavilion and offices near High Park, including residence and ball room, boat house, etc., with about 400 feet run of 8 feet wide verandas. The whole of the establishment is to be covered with metal inside and outside. Foundation to be on piles and concrete and floors to be of hardwood. The building is to be erected on the lake shore this fall, and most of the work will be done by day labor.—Building permits have been granted as follows: John E. Hoare, two-story brick residence, 69 Howland avenue, cost \$3,500; James Dempster, two-story brick bakery, on Dundas street, near Ossington avenue, cost \$2,000; Lewis Brown, two-story detached brick residence, north side Eastern avenue, cost \$1,800; A. Horton, three pair two-story and attic brick dwellings, north of Howard street, east of Glen Road, cost \$1,800; C. J. Gibson, architect); Jane McMartin, two-story brick store and dwelling, Dupont street, corner Bathurst, cost \$2,500; Matsey-Harris Co., one-story brick storage warehouse, south side King street, near Crawford street, cost \$1,100, also three-story brick store and dwelling, the process \$1,500 (Mr. Davis, architect, R. G. Kennedy & Son, contractors); Martin Mc-Kee, two two-store detached rough cast dwellings, north side Boultbee avenue, near Jones avenue, cost \$1,000.

# Good Roads Machinery Co. (Limited.)

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"CHAMPION" Rock Crushers, Road Rollers, Road Graders, Road Plows Macadam Spreading Wagons, Street Mud Cleaners, Wheel & Drag Scrapers.

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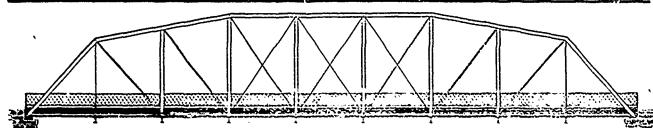
Trolley Pole Brackets; Electric Light Arms; Prison and Jail Cells. Fire Escapes Automatic Fire Shutters and Doors; Iron Sidewalk Doors, Etc.

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The Hamilton Bridge Works Co., Limited, Hamilton, Canada STEEL RAILWAY and HIGHWAY BRIDGES STEEL ROOFS and Every Description of STEEL LATTICE and GIRDER WORK BEAMS, CHANNELS, ANGLES and TRES always in stock

#### FIRES.

Residence at Carleton Place, Ont., owned by Jos. Lahair—Brass foundry of Chadwick Bros., on King street east, Hamilton, damaged to the extent of \$10,000.—Residence of H. M. Whitney at Sydney, N.S., totally destroyed; loss \$20,000.—Balmoral Hotel at Britannia, Ont., leased by C. Mead, burned last week. The building was owned by Geo. Perkins.—Residence at Moose law, N. Perkins.—Residenc at Moose Jaw, N. W.T., owned by H. C. Massey.—A number of buildings in the village of Victoria Beach, near Digby, N.S., were destroyeb dy fire last week.

#### CONTRACTS AWARDED.

SACKVILLE, N. B.-Richardson & Bucke have the contract for erecting as building for Capt. Pe.er Hanson.

BRAESILE, ONT .- The contract for Presbyterianc hurch has been let to W. Rudd; C. J. Gibson, Toronto, architect

COLLINGWOOD, ONT .- N. Smart has awarded the contract for building a new brick cased residence to J. Peterman.

QUEBEC, QUE .- The city council has let the contract for supply of water pipes to the Mortreal Pipe Foundry Co.

HAMILTON ONT.—The contract, for brickwork on F. W. Fearman & Co.'s factory addition has been given to George Webb.

PICTOU, N.S.—Willard Kitchen, of Fredericton, has secured the contract for new warf and freight shed at this place for the I.C.R.

NIAGARA FALLS, ONT.—The Canadian Niagara Power Co. have let the contract for tunnel and portal to A. C. Douglas. The price is over \$500,000.

ALWAYS IN STOCK

# PIG LEAD, PIG TIN AND SOLDER

Syracuse Smelting Works, Montreal, P.Q.

The tunnel will be 2,200 feet in length and 19 x 21 feet in diameter.

ROCKLAND, ONT .- J. P. McLaren, architect, of Ottawn, has awarded the contract for completing Presbyterian church to Guiroux Dailey.

OWEN SOUND, ONT .- The tender of A. W. Harrison, of Toronto, has been accepted for purchase of \$46,216.32, debentures at price of \$46,653 and accrued interest.

COATICOOK, QUE.--Mr. Shurtleff, of this place, has secured a contract to erect a building at Asbestos for the New York Asbestic Co., to cost about \$18,000.

PAISLEY, ONT .- Greenock township council has accepted the following tenders for bridge across Teeswater at Pinkerton : Superstructure, Hunter Bros. Bridge Co., Kincardine, \$1,235; concrete abut-ment, Adam Knox and William Welsford,

ST. JOHN, N. 3.—The tender of S. B. Lordly for supply of desks for Carleton

school building has been accepted .-Cushing & Co. are converting the Miller & Woodman saw mill into a box factory.
The contractors are: Power house and engine, B. Mooney & Sons; machinery, Fleming & Co.

LISTOWEL, ONT.—Horn & Calder are the successful tenders for the erection are the successful tenders for the erection of a new factory for the Canadian Bent Chair Co., to be 52 x 58 feet, three storeys, with two storey boiler house 34 x 36 feet. The sub-contractors are: Brickwork, George Frit; stone work, Kritzer Bros.; painting and roofing, J Seburger; plumbing, D. Boyer.

MONTREAL OUE.

MONTREAL, QUE. — Perrault & Lesage, architects, have accepted the following tenders for the erection of a seven story office building, 71-71A St. James street: Roofing, Bernier Freres; plaster-ing, N. Contant; painting and glazing, D. Belange; plumbing, D. Ouimet; heating, Joseph Lamarche; tinsmithing, I. Leclerc Fils; zinc ceiling, Pedlar



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we have several excellent second hand pumps in first-class condition for water works services at closo prices. Send for Catalogues.

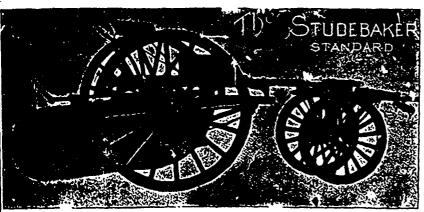
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# The Canadian Bridge Co., Limited WALKERVILLE, ONT.

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Locomotive Turn Tables, Roofs, Steel Buildings and Structural Iron Work of all descriptions.



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Because no sweeper so effectually does the work for which it is designed as "The Studebaker."
It Sweeps Clean. No sweeper is constructed with the same degree of care and mechanical precision.
It Wears Well. "The Studebaker" has the smallest possible number of working parts, and has less ring than any other sweeper made. It is free from unnecessary complications. With reasonable care it not get out of order. Send for complete descriptive catalogue.



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IMPROVED VERYICAL SPRAY

Geo. Heaman, Mnfr., London, Ont,

Metal Roofing Co.; elevators, Fensom Elevator Works; electric wiring, Canada Electric Co.

NELSON, B.C .-- Contracts have been let as follows for construction of the British Columbia Southern road to connect with the Great Northern branch line north from Jennings, Mont., to the Inter-national boundary: First six miles, all steam shovel work, to Twohey Bros., of Spokane; second section, Burns & Chapman; third section, from Elk river to Elko, six miles, to Poupore & McVeigh; fourth section, three miles, steam shovel work, to Grant & Smith; fifth section, two and one-haif miles of rock work, to J. G. McLean, of Seattle; sixth section, two miles of rock work, to W. G. McLean, of Nelson; seventh section, two and one-half miles of rock work, to Foss & McDonald, of Slocan; eighth section, five miles, Breckenridge & Lund. The oalance is being located.

LONDON, ONT.—The Public Library Board have awarded the following contracts for alterations to the library: Mason and brickwork, Simpson & Murmason and brickwork, Simpson & Intrap.
ray, \$1,577; carpenter work, Jno. Purdom, \$1,105; plastering, R. Gash, \$133;
painting, Geo. Howe, \$240; galvanized iron, H. J. Boyd, \$125; felt roofing, Geo. Roughley, \$95; plumbing, F. R. Leigh, \$124.—Robert Black has awarded the following contracts for a new residence on Queens avenue: Mason and brickwork, Martyn & Hammett; carpenter work; L. H. Martyn; plastering, J. Calhoun; painting and glazing, Pace & Fitzgerald; wiring, Electrical Construction Co.; plumbing, Smith Bros.—L. H. Martyn has been awarded the contract for extensive alterations to the Centennial for extensive alterations to the Centennial Methodist Church.

TORONTO, ONT .- The Board of Control last week accepted the following tenders: Asphalt pavements—College street, Spadina to Bathurst, \$31,765, and

OWNSHIP DEBENTURES

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Engineer. Brick privement - May street, \$2,399, to A. Chimberlam; Hayden street, Yonge to Church, \$2,200, and Balmuto street, Bloor to Czar, \$1,900, to J. H. McKnight.

#### REAL ESTATE TRANSFERS.

The following recent transfers of vacant property in Toronto have been registered: Canada Permanent and Western Canada Mortgage Corporation to John Walker, 34 x 129, west side Bathurst street, being lots 3 and 4, plan 1,125; assessed at \$850.

David Falconer to James Demp ter, 4.6 x 100, north side Dundas street, being lots 8 and 9 and part lot 10, plan 6.7; assessed at \$1.090.

John M. Clark to Luke A. Smith 38.6 x

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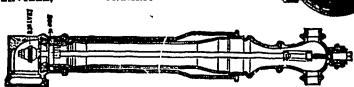
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127, east side St. Clarence avenue, being part lots 15 and 17 and lot 16, plan 1,030; assessed at \$270.

Walter S. Lee and Charles E. Lee to Alfred Gardiner, 40 x 88, north side lake shore, east of Lee avenue, being part block A, plan 560; assessed at \$400

Wm. C. Slaney to Jeanme Nesbitt, 90 x 119, south side Langley avenue, being lot 28 and west half 27, plan 505; assessed at \$1,170.

Jeannie Nesbitt to Wm. J. Hewitt, 45 x 119, south side Langley avenue, being westerly part lot 28, plan 505; assessed at \$585.

John Hoskin to Harriet S. Addison, 62.2 x 270, south side to Castle Frank crescent, being part lot five, plan 686; assessed at Station

City of Toronto to Annie Dainty, 25 x 127, west side Manning avenue, being let 60, plan 680; assessed at \$175.

Annie L. Thompson to Samuel Frenkel, 53 x 51.9, south side Wellington place, being part lot 12, section A of the military reserve; assessed at \$159.

Mayor and Treasurer of city of Toronto to Agnes Jardine, 9 x 106, east side Mc-Caul street, being part of park lot 13, assessed at \$405.

William M. Macpherson et al, trustees of McMaster estate, to Wm. II. Hutchinson, 55 x 145 south side Crescent road, being part lot 11, plan 204 E, assessed at \$1,650.

#### RULES FOR MIXING CEMENT MORTAR.

One of the very common mistakes in mixing a cement mortar is the amount of water that is used. This is caused by the fact that no fixed rules can be laid down for the amount of water to be used. Very generally too much water is added, which will make the cement porous when it has dried, for all the water that is in excess of the necessary amount will evaporate and

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leave air spaces which weaken the holding power of the cement very materially.

The following rules have been laid down as giving good results: 1. Fine sand mortar requires a little more water in making it up than coarse sand; 2. Sand composed of porous material requires more water than other sand; 3. As the proportion of sand to cement is increased, the proportion of water to cement should also be increased.

These three rules give a general idea as to the amount of water required, if remembered, that the consistency of the mortar should be such that when tamped down a perceptible film of water, possibly only a dampness, should be noticed on the surface.

The idea in mixing water with cement is to bring the particles into closer contact and to supply the water by means of which hydration takes place. In adding too much water, the cement is injured, both as to its setting powers and its ultimate strength.

In making concrete it is often found very difficult to make the mixture homegeneous, for the reason that too much water has been added to the mortar. The latter becomes too liquid and settles down through the crushed stone, leaving them without any binding material.

The temperature of the water has a very important bearing on the amount that is used. It is well known that the higher the temperature of the water, the more rapid the setting, consequently the cement seems to become plastic before sufficient water has been added. The kind of water also has some connection with the amount to be used, less saline water being required than ordinary water, to produce the same consistency.

The amount of water required for any new or special work should always be determined by experiment and then the mortar made up with measured quantities of water. After the eye becomes accustomed to the appearance of the mixture, a hose can be used, but the amount o water must always be carefully watched

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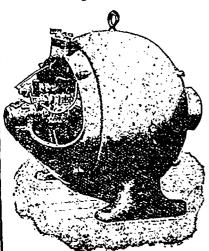
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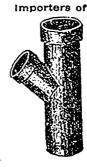
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FRENCH PRACTICE IN THE MANU-FACTURE OF CAST-IRON PIPES.\*

\*This industry has developed by leaps and bounds during the last few years, and much of its success is no doubt due to the very practical and workmanlike methods adopted by the French engineers and ironfounders.

France is now a competitor in both our foreign and home markets, and having the advantage of such shipping ports as Antwerp, Hamburg, Le Havre, &c., where the lowest freights are obtainable, is securing a share of a department of trade which was originally entirely in our own hands.

The Engineer of February 23, 1901, contains a paragraph on this subject, of which the following is a summary, viz:— "In 1685 the first service of cast-iron pipes was laid at Versailles, France, and it was not until 1746, sixty-one years afterwards, that Londonhas its first service of cast-iron pipe; still later Glasgow received its service of water through an iron main. The French engineers confined themselves to pipes and a special damped joints, the same as are used at the present time, and it was not until 1800 that the practice of socket and spigot joints, with a groove for lead, was recognised as efficient."

Unlike the American pipefounders, the French founder is an ironmaster, and is fully alive to the advantage of obtaining a complete analytical knowledge of the iron used. Naturally this study has its reward, and by close application to experiments and the mixing of the different grades of pig-iron, a result is obtained which secures castings of the first quality, being dense, tough and of a close-grained nature. In order to secure uniformity in mixing the various grades of iron, French mamiacturers are particularly careful in seeing that the right quantities of each grade of pig-iron are placed in the trolley before entering the cupola, an examination is then made by the chemist, who signs for the accuracy of the mixture and allows the trolley to pass to the capola.

Casting pipes vertically is the only method accepted by the home transporters even in the case of such small diameters as 40 mm., 50 mm. and 75 mm. (respect-

\*A paper read by Mr. A. G. Cloake at the meeting of the Association of Waterworks Engineers.

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ively 1½ inch, 2 inches and 3 inches), a practice which is not, the author believes, followed in any other country. It is, of course, needless to point out to the members of this Association the superiority of vertically east papes over those east on the slope, not only as regards strength, but also in respect of deterioration.

The pits of these pipes are built both circular and rectangular, and measure respectively from 30 feet to 40 feet diameter and 25 feet by 20 feet, with a depth of 16 feet. This depth is necessary because of the standard lengths of pipes, from 9 inches diameter and upwards, which are usually made to lay 4 metres (13 feet 2 inches), socket to socket.

The cores are made in one piece of hav or straw bands wound on a steel tube, afterwards worked up with sand, by machinery, which considerably expedites the manufacture and insures accuracy. The core ovens are adjacent to the pits.

The system of straining the molten metal adopted by the Societe Metaliurgique d'Aubrives et Villerupt is that devised by the menaging director, M. Jacquemart. This permits of the socket being cast upwards, with a feeding head from 8 inches to 12 inches above the socket, according to the size. This is according to the size is a size of the socket being cast upwards, with a feeding head from 8 inches to 12 inches above the socket, according to the size of the size

dross or sullage to pass, such impurities collecting at the top of the feeding head, 8 inches or 10 inches above the socket, and when the pipe is cold they can be struck off with a hammer. Under this system the spikot ends are rendered very dense, owing to their solidifying under pressure, and truly cylindrical and concentric castings are also obtained.

The usual English practice in filling the moules is to pour the metal direct from the ladle through gates or holes made in the mould, which are liable to get extended, and thus allow dross to pass, and the socket, if at the bottom, gets the first rush of the impurities. It is true that the metal is usually skimmed at the top, but this by no means prevents sullage and dross getting down into the casting, and a straining process is therefore indispensable to secure a clean and true casting.

(To be continued.)

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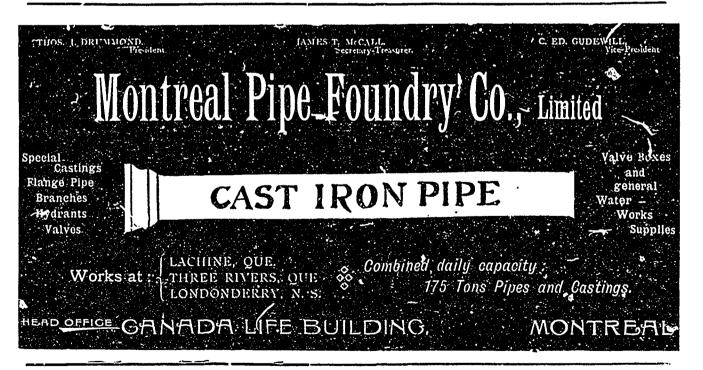
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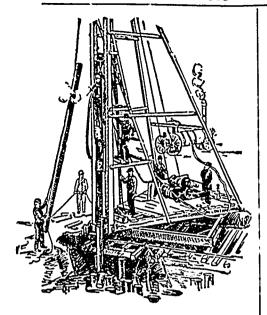
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Coiv	Frederick G Todd 111	William & Co., H xvi			
	Peamsville, Montreal.	SLATE.			
Baft Pecileis		Recting (# square).			
" No. 1	180) 27 (0	ıı red			
Moulded and Ornamental B	ic fram \$3 to Sto per C				
Komya Ked (2116 13 X 4 X 1 X	2 2 5 00 22 50 2 111. 12 12 12 13 50				
Brewn Vitrified Pavin, Bric. No.	24.00 20.60	n purple			
" " NS. 2	15 00 20 50	plack			
Sewer Roofise Tile	650 1700	Tena Cotta Tile per sq Orgamental Black Slate Roo			
		CEMENT,			
STO	YK.	Portland Cements -			
	Manuala 324	"Josson "Brand Portlan North's "Condor			
	Toronto. Montreal.	Alsen's, (German)			
Commen Rubble, per touse,		Alsen's (German) "Karlstadt" (German) English, artificial, per bl Beleian natural, per bbl. Rathbun's Star, per bbl.			
deliveredLarge flat Rubble, per toise, delivered	12 00 11 00	Belgian natural, per bbl.			
delivered	14 00 18 00	Rathbun's Star, per bbl			

Glass Co 11	Geo. W. Reed & Co 11
Glass Co 11 Toronto Plate Glass Co	Valves
Plumbers	Jenkins Bros IV Robt. Mitchell Co. vi
Montreal Mirector: xvi	Wall Plaster
Toronto Directory avi	Albert Mfg. Co xr
Roofers Campbell & Gilday xvi	Bradshaw, W.A. x Windsor Plaster Co. xiv
	Wire Lathing
110110124 16 4 6	The B. Greening Wire
Forbes Rotting Co. xvi Nicholson & C., D. xvi scanit & S. n. Robt xvi Ormsby & Co. A. B. 1	Company ziv Metallic Poofing Co 42
Omsby & Co. A B. I	Window Cord.
Stewart & Ce. W.T. xvi	Samson Cordage
William: & Co., H xvi	Werks 2i
SLATE.	Toronto. Montreal
Recting (V square).	
ıı red	17 50 200
	Toronto Monteni
n purple	Toronto. Montreal
ding gree	. 85° 10 ω :n 850 7 ∞ 1α
Tella Cotta Tile per sq Organical Black Slate Roo	750 feB
Organicatal Black Slate Roc	ofing 880 étal
CEMENT,	LIME, etc.
Portland Cements -	
"Josson "Brand Portlar North's "Condor	nd. 305 325 276 2k 295 310 250 26
North's "Condor Alsen's (German)	295 310 250 16 300 315 260 17
Alsen's, (German) "Karlstadt" (German) English, artificial, per b	285 305 255 275 bl 285 305 225 242
Keleian natural uer bbl.	2 (0.315
Beaver.	
Ensign.	190 2 30
Domen 11	2 50 2 20 225 5 25 5 25 5 75 5 75
Parian Keene Superfine "White	525 525 575 575 es 100 1200 9 60 10 fo
Parian Keene Superfine "White Keenes Coarse "White Raere! Belgian, 306 lb. l	1 13 00 8 10 8 50 6 to
Raere! : Belgian, 396 lb. l Levie 1 ros.	2 20 125 2 25 5 25 5 75 575 575 2 2 3 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
Fire Bricks, Newcastle, per Scotch	M 3000 3500 1600 21.4
Lime, too lbs., Grey	30 35 37 30 35 37
Plaster, Calcined, N. B	35 39 200 15
II air, Plasterers', per bag.	. 200 10
	· 1
	AL VARNISHES.
THE INTERIAL VARNISH (Highe	AND COLOR CO, LIMITEL of grade)
• •	
(Cans free.	Kai Kai Kai Kai Kai Kai Kai
	In S Kal Per Kall In 1 Kall Per Gal In 1/2 Kal Per Gal Per Kall
Exterior weather body	## #5 #5 #5 #5 ##2 482112 722212.
Exterior weating body. Exterior rubbing Elasto ia Feory Exame ine. Cryx ali e Yachine Architectural Coach. Gantinn floor faish	. 350 375 385 4 × 466
litasto sa	. 350 375 385 474 462 500 525 535 571 614
Crys ali e	450 475 485 522 5 9
Architectural Coach	. 150 175 185 370 1
G anitins floor finish Architectura. flatting	250 275 285 310 16 200 225 235 270 34
and a manufacture of the course	

	Toronto.	Montreal,
Common Rubble, per toise,		
delinered		
delivered	12 00	11 00
delivered		
Coundaries Dischauses (c	14 00	18 00
Foundation Blocks, per c. ft.	30	50
Granite (Stanstead) Ashlar, 6		_
in to 12 in , rise of n , per ft. Amherst Red Sandstone		25
Amherst. N.S., per cub. ft.	1 00	75
Sackville, N B., brownstone	85	75
Masillon Starstead granite paving	30 00	
ota stead granite paving		
DIOCKS, & ID. C 12 ID. XO ID.		
x4% in. per M		50 00
Grante curbing stone, 6 in.x		
20 in. per lineal foot		70
Brc. uc e Olive Freest ne.		
Olive Carelstone (Indiantown, N	.IL) 85	70
Brown (Sackville, N.1	\$ ) 85	70
Most red sandstone, per eu. ft		So (5
Black Parture buff stone, per et	1. 11,	જ
Nova Scotia blue grey, per cu.	11	(5
	F.O. B	. Halifax.
Dimension stock granite for be	aild.	
ing purposes, per cubic foot		\$0.45
Do., for polishing purposes, up	10 2	4-43
tons weight, per cubic foot		1 00
Paving sets, per thousand block		(000
a mind agont the spagnage of the		1,000
<b>Change 21.11 m</b>		

#### CREDIT VALLEY STONE.

	F.O.B	Quarries.
Rubble, per ton		50
per sun. yard		2 00
Brown Dimension, per cub.ft Grev Coursing, per sun, yard		65 2 25
Grey Coursing, per sup. yard Grey Dimension, per cub. ft.		45