CANADIAN **Contract Record**

A Weekly Journal of Public Works, Tenders, Advance Information and Municipal Progress

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. 15.

TORONTO AND MONTREAL. MARCH 2. 1004

THE CANADIAN CONTRACT RECORD PUBLISHED EVERY WEDNESDAY

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Pitus and tender outsame forms of tender outsame City Engineer, on and after Saturosy, ath, 1904. The usual conditions relating to tendering, as prescribed by City By-Law, must be stilly com-plied with, or the tenders will not be entertained. The lowest or any tender not not necessarily accepted. THOS URQUIHART (Mayor) Chairman of Board of Control.

FOR SALE

Steam Road Roller, Kelly-Beckett pattern, wood burner, weight about 14 tons, in service-able condition. For further information apply City Engineer, Kingston, Ont.

To Contractors

Sealed tenders, addressed to the undersigned, will be received until noon on MONAY, THE 47H INST., for all trades required in the erce-tion of a large addition to St. John's Industrial School, Blantyre Park, Kast Toronto. Plana, etc., can be seen on and after Monday, Contractors will be required to a

the jth inst. Contractors will be required to give with ten-ders the names of two responsible sureties. The lowest or any tender not necessarily ac-cented cepted

ARTHUR W. HOLMES, Architect, IO Bloor Street East, Toronto.

CONTRACTS OPEN.

SEAFORTH, ONT. - Harry Edge intends building a new residence.

DEPOT HARBOR, ONT. - The Presbyterian congregation have decided to build a new church.

BRACONDALE, ONT.-The School Board have purchased a site on which to build a six roomed school.

STRATFORD, ONT.-The Stratford Improvement Company will build over thirty residences this year.

NORTH TORONTO, ONT. — The question of remodelling the electric light plant is under consideration.

MINNEDOSA, MAN. - W. H. Harvey, of B andon, is considering the building of a flour and grist mill here.

ST. THOMAS, ONT.—An effort is being made to raise \$10,000 for alterations and repairs to A'ma College in this city.

EMERSON, MAN.-It is said that a company of Minnesota lumbermen are about to build a large planing mill here.

RED DEER, N. W. T. - George Beatty, proprietor of the Alberta Hotel, will build a three-storey brick veneer N. W. T. - George addition.

DUBLIN, ONT. - Tenders will be received by Bernard O'Connell up to 10th inst. for erection of addition to school house.

GRAND FALLS, N. B .- The town is asking the Legislature for a bill author-izing the construction of a waterworks system.

WINDSOR, ONT.-A site has been chosen for the new Roman Catholic church to be built in this city, estimated to cost \$31,000.

DORCHESTER, N.B. - S. Edgar Wilson, county secretary, has just taken tenders on heating and plumbing at the court house.

VILLERAY, QUE .- The ratepayers have defeated the by-law to assist the St. Lawrence Clothing Company in making

No. 3.

ALBERNI, B. C .- W. S. Gore, of Victoria, is taking tenders up to 2nd inst. for erection of a school house at New Alberni

CARLETON PLACE, ONT-A. W. Bell, J. R. McDiarmid and T. C. Maguire are about to begin the erection of three

are about to begin the erection of three splendid business blocks. KEEWATIN, ONT.—The Keewatin Railway Company are asking for an ex-tension of time for the commencement of their proposed railway.

ST. ANDREWS, N. B.—It is re-ported that the C. P. R. have in contem-plation the erection of several cottages north of the A onquin Hotel.

CHATHAM, ONT.-The Chatham Mineral Water Co. have decided to erect a modern hotel. Dr. W. R. Hall is president of the company.

PRINCE ALBERT, N. W. T.-Bids received by C. O. Davidson, Secretary-Tressurer, up to April 2nd for the pur-chase of \$7,000 town debentures.

MOOSE JAW, N. W. T.-A by-law will be submitted to the ratepayers to raise \$10,000 by debentures for building a city hall, fire hall and market building.

NEWCASTLE, N.B .- Voting on the by-law to loan \$20,000 to Anderson Bros. to establish a furniture factory here, took place on Monday last. Result not learned.

RIMOUSKI, QUE. -- Tenders for erection of station and freight house for the Intercolonial Railway will be received by the general manager at Moncton up to 8 h inst.

BRANDON, MAN .- The Brandon Club have purchased a site on which they will erect a two-storey brick and stone build ng to cost \$12,000, from plans by Architect Marshall.

TRURO, N. S.-A public vote taken last week gave a majority in favor of a new s hool building, while the proposi-tion to borrow \$6,200 for sewerage extension was defeated.

PARRY SOUND, ONT.-Plans for the new dock to be built here by the Dominion Government are in course of preparation and tenders for the work will be invited very shortly.

be invited very shortly. EAST TORONTO, ONT.—The by-law grasting certain concessions to the Globe Manufacturing Co., of Walkerville, to establish a factory here, was carried by a large majority last week.

GODERICH, ON F.-As soon as the necessary surveys can be made, oins will be piepared by the Public Works Department at Ottawa for the break-water to be built in the harbor here.

ST. CUNEGONDE, QUE. - The parishoners have decided to rebuild the R. C. church here, at an estimated cost

of \$150,000, work to be commenced as soon as pecessary arrangements can be made.

HUNTINGDON, QUE.-Mr. Hibbard, of Utica, N.Y., has prepared plans for the new St. Andrew's Presbyterian church to be built in this village, to be 80 x 103 feet. Particulars from A. Philps, secretary of building committee.

ST. MARY'S, ONT.--A local architect is preparing plans for a new building for the Molson's Bank, also for a factory to costs about \$22,000 to be built by the St. Mary's Footwear Co., a new corporation with a capital of \$50,000.

• OWEN SOUND, ONT.—The new Y.M.C.A. building to be built at corner of Scrope and Division streets is expected to cost \$20,000.—It is likely that early steps will be taken to install improved heating systems in the public buildings.

BARRE, ONT.—E.T. Tyrer, Chairman Fire and Police Committee, will receive tenders up to 16th inst. for erection of a new police court, council chamber, lock-up and stables and for alterations and improvements to the fire hall building. Plans by Thomas Kennedy, architect.

EDMONTON, N.W.T.—The revised street railway agreement between the town and W. G. Tretheway, of Montreal, has been approved by the council and will be submitted to the ratepayers March toth. It provides for the buildtug of nine miles of railway.

AMHERST, N.S.—The Fundy Coal Co., Limited, have completed plans for an up-to-date plant with improved mining machinery, the coal-cutting machinery and hauling apparatus to be operated by electricity. Harry F. Huestis, of Providence, R.I., is president of the company.

HUNTSVILLE, ONT. — Robert Bacon wants tenders by 9th inst. for erection of brick school house in S.S. No.3, Brunel.—The Town Council will probably be asked to provide \$20,000 for a new twelve-roomed school, instead of \$8,000 for a four-roomed school as originally proposed.

BRIDGEWATER, N.S.-W.H.Grant, manager of construction, will receive tenders up to 15th inst., for erection of a telegraph line between Mohone and Halifax, about 70 miles, and between Bridgewater and Liverpool, about 30 miles, on the line of the Halifax and Southwestern Railway.

QUEBEC, QUE. — H. A. Pacaud, banker, of St. Peter street, is having plans prepared for the erection of thirty modern dwellings in this city. He has just purchased the double house at 11 and 13 Haldemand Hill, which he inter.ds converting into a modern residence.

ST. CATHARINES, ONT.-L. K. ones, Secretary Department Ralways and Canals, Ottawa, desires tenders by March 10th for construction of a supply weir at Allanburg. Plans at the office of the superintending engineer of the Welland Canal, this city.- The city has applied to the Ontario Legislature for permission to apply \$150,000 raised for the development of water power at DeCew Fills and other purposes, to the construction of a high level bridge and the purchase of stock in an electric railway.

MONCTON, N. B.—D. Pottinger, manager Intercolonial Railway, will receive tenders up to 14th inst. for double tracking between Bedford Brdge and Windsor Junction; until March 4th for construction of a transfer shed at Moncton; until March 15th for straightening main line at Curtis Creek, 6, 146 feet, also for connection between main line and Hillsboro River Bridge at Charlottetown, 2233 feet.

VANCOUVER, B. C.—Grant & Henderson, architects, are preparing plans for four-storey brick and stone hotel to be built on the corner of Abbott and Hastings streets, to contain 100 rooms.-The city 1s about to advertise for tenders for supply of sewer pipes.—The Northern Lumber Co, have made application to the city for foreshore rights on False Creek.

STE. CUNEGONDE, QUE. – Plans prepared jointly by C. Dufort and Alfred Piche, architects, have been accepted by the Council for the new city ball to be built here. Provision has been made for post office, fire and police stations, council chamber and municipal offices, cost \$50,000, work to be commenced in the spring.

CALGARY, N. W. T.-Bow River Lodge A. F. & A. M. are about to erect a three-storey and basement building on Stephen avenue, estimated cost \$35,000. -A by-law to provide \$75,000 for the erection of a city hall has been given its first reading in council.-The J. H. Ashdown Co. have purchased a site on Northcete Avenue on which to build a residence for their manager, Mr. Lawrence.-D. Carter has sold several lots for building purposes.-James Smart, Chief Fire Department, has recommended the purchase of a double Gogallon chemical and hose waggon.-The new buildings to be built in Calgary this year will include three churches, a \$70,000 school, several business blocks, two banks, one or more hoits, new C. P. R. station and general offices, and possibly a new city hole.

ST. JOHN, N. B .- The Canadian Pacific Railway will spend about \$600,-ooo on the eastern division this year. On the Brownsville and Moorehead sections the present 60-bound rails will be replaced by 80-pound rails. Twenty-nine new bridges and culvetts will be built, ten on the main line and nineteen on the branch line, cost \$140,000. Im provements to be made to stations and other buildings will cost \$55,000.-J. S. Armstrong has applied for the incorporafrom Hampton to St. John and from St. John to Gagetown.—The School Trustees are considering th · erection of a school building on the corner of Wentorth and St. James streets. -A site on John street, Carleton, has been securworth SI ed for the detention house to be built by the Dominion Government, 40 by 103 feet, three stories, cost \$30,000.-for the new drill shed have been re Pian heen returned to the Public Works Department at Ottawa for slight alterations, after which tenders will be invited.

OTTAWA, ONT .- Plans for the restoration of Ottawa University are being It is expected that work on considered. It is expected that work on the main building, which will cost about \$125,000, will be commenced in the spring.-William and John Kennedy, considered. hydraulic engineers, Montreal, are work ing on plans to overcome the anchor ice difficulty of power plants. It is stated that they will recommend the rebuilding of the present large dam above the Chau diere Fails or the construction of an en-tirely new one, —American capitalists are reported to be looking after the Clemow property as a site for a large hotel. H. M. Wright, for some time connected with the Hotel Cecil, London, Eng., has been ap-pointed manager of the C dedonia Springs Hotel, to which extensive improvements and additions are to be made.-It is is possible that the additions proposed to be made to the Archibald, Eigin and Creighton street schools will not be carried out this year, as a special committee has decided not to recommend the board to

ask for a debenture to cover the proposed

work

MONTREAL, QUE .- The improvelanin ments recommended by Mr. waterworks superintendent, include the installation of a new pump and steam boilers in the low level station, the placing of from 1,000 to 1,500 new hydrants, on ing R. of new main pipes, etc.—The R. Telegraph Company purpose Montreal and Quebec. — The Water Committee have asked the Finance Com mittee to vote the sum of \$75,000 to purchase a 12, 000,000 gallon pump. -L. O. David, City Clerk, will receive tenders up to 3rd inst. for supply of 5,000 feet of cotton fire hose, 50 salvage covers, 50 fire alarm boxes, and for repairs and improve-ments to No. 8 aerial ladder.—A special committee will submit to the City Coun-cil a recommendation that the sum of \$1,250,000 be borrowed for the purpo of constructing an underground conduit for electric wires.

TORONTO, ONT .- Plans have been repared for the new building to be built by the Ontario Government at the Indus trial School, Mimico, and tenders for the work will be invited at once. The build-ing will cost about \$15,000.—A deputa-tion from Toronto University last week asked the Ontario Government for a grant for the erection of a new physics building. It is understood that from \$100,000 to \$150,000 will be required. -A freehold property on King street Bathurst street, 130 by 100 feet, has been purchased for a factory site.—In connec-tion with the projected extension of their plant, the Consumers Gas Company in-tend erecting a new gas-bolder to cost about \$500,000.-C. W. Postlethwaite, Harbor Master, desires tenders by 15th Harbor Master, desires tenders by 15th inst. for the dredging required in the harbor this year. — The Toronto and Mimico Electric Railway Co. will begin work in the spring on the extension of their inne to Lorne Park, a distance of about eleven miles.—The South African Memorial Association have decided to constant a state at the state of Constant and the second state of the state of the state of the state state of the state of the state of the state of the state state of the state erect a large equestrian statue in Queen's Park, at a cost of about \$30,000.—The Industrial Exhibition Board have decided to have plans prepared at once for an arena for the judging of stock.—The Toronto & Niagara Power Co. propose to use steel poles, some 50 feet high distances of 400 feet, to carry their tr at trans ine from Niagara Falls to -The Board of Control will remission line Toronto. ceive tenders up to 8th inst for construc-tion of brick, asphalt and tar macadam pavements and concrete sidewalks. Building permits have been granted as follows J. H. Hamlyn, two pairs frame and J. H. Hamlyn, two pairs frame and rough-cast dwellings, Dovercourt road, near Shanley street, cost \$4,000; Gutta Percha & Rubber Co., one-storey coal storage bunk, timber and corrugated iron, C.P.R. siding, between O'Hara and West Lodge avenues, cost \$8,400.

WINNIPEG, MAN.-S. Hooper, architect, is preparing plans for alterations to the Alexandria Block, Emerson; stone tect. foundation, steam heating. The same architect is preparing plans for a Presbyterian church at Seikirk, stone and brick, seating capacity 350.-A. & W. Melville, architects, have prepared plans for new carriage works on Ross avenue for Ed. Boyce, five stories, 44 by 110 feet .-- W. B. Lat has prepared plans for the new Sons of England Hall, which will be too by 33 feet, three stories and basement, of pressbrick and cut stone, metal ceilings, ed steam heating, cost \$30,000. Same arch tect has prepared plans for new Land Titles Office to be built at Boissevain and for a ten-roomed residence at Minnedosa for Edward Hole .- Hugh Mc-Cowan, architect, has prepared plans for

March 2, 1904

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The S Snecial B of Sidew tions, etc 763-76 a town hall -J. H. G. tenders up five-storey Trade will p ment to e customs h asphalt pay ena stre Henry aver contemplat the depot, building an Telephone tensive add equipment be will a new su sive unde and seve distance Plans hav Griffith, a house to b W. G. F stories, co plans for a cess street considere sale dry g Whitla C -The In build a Main an ported th Haskell been acce built in 3,000, 00

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\$10,000. & Smith Catherin extent of A. Boas lams ne --Warel Glace 1 destroye Menzie turers of damage sor Hot. Mrs. G E. Bon N. B., d

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ONT .- New brick Watford, school : Henry contractor.

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ALVINSTON, ONT .- New mill for Alvinston Flax Company: John Brown, contractor.

FORT FRANCIS, ONT.-Building for J. C. Scot: Wastell & Lucas, con--Building trac

NORWOOD, MAN. - Methodist church, corner Marion and Tache streets: A. B. Ibbetson, contractor.

FREDERICTON, N. B. — Building Thorne Brook bridge at Havelock: C. J. B. Simmons, of this city, contractor.

HAMILTON, ONT. — Supply of cement for city: Atlas Company, New York, successful tenderers, \$1.65% a barrel.

CALGARY, N.W.T.-Reconstruction of the Norman block and Normandie theatre for Senator Lougheed: F. Fairey, contractor, cost about \$40,000.

BRANDON, MAN. – New Baptist church: Stone work, Fred Trent, Bran-don; other trades, A. McBain, Winnipeg, W. A. Elliott is architect. Estimated

W. A. Ellout is architect. The second sec

DUNDAS, ONT .- Improvements to DUNDAS, ONT.-Improvements to Baptist church: Seating, Valley City Seating Company, Dundas; woodwork, John Ford; decorating, J. C. Patterson, windows, Hobbs Manufacturing Com-pany, London; ceilings, Preston Metal Siding Company. SEAFORTH, ONT.-Tuckersmith Council have awarded the following con-tracts: Concrete abuments for the

tracts: Concrete abutments for the Horton and Turner bridges, Nagle & the THE CREY AND BRUCE PORTLAND

CEMENT COMPANY Shallow Lake, Limited

HERGULES" PORTLAND CEMENT

ry finely ground. Unsurpassed for Side a, Floors and all work requiring the test Grade of Portland Cement. For prices

A. D. CREASOR, Sec'y-Treas. Head Office, Owen Sound, Ont.

BRAND OF

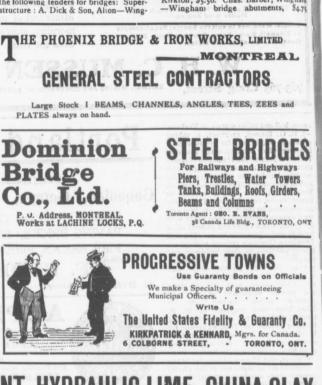
Manufacturers of

Looby, of Dublin, \$4.12½ per cubic yard; abutments for the Fotheringham and Rouatt bridges, F. Gutteridge, Seaforth, \$4.25 per cubic yard; steel superstruc-\$4.25 per cubic yard; stee tures, Hill & Co., Mitchell.

WINNIPEG, MAN. — Methodist church, corner Maryland and Sargeant streets: Carpentry, John Farquhar; painting, Douglas Panting Co.; sheet from work, Douglas Bros; electric fittings, E. S. Harvan, Co. — The Cempent Build. E. S. Harrison Co.-The Cement Build-ing Block Co. have secured the contract to upply material for McColl Bros. & Co.'s large warehouse on Henry avenue.

GODERICH, ONT. - The County Council have received and acted upon the following tenders for bridges: Super-structure : A. Dick & Son, Alton-Wingham bridge, \$1,280; Howick and Grey \$1,280; Kirkton, \$950. Hamilten Bridge Co.-Westfield bridge, \$5,783; W nkban bridge, \$1,687; Howick and Grey, \$1,687; Kirkton bridge, \$725 (accepted). Hunter Bridge Co., Kincardine - Westfield bridge, \$4,980 (accepted): Wingham bridge, \$1,075 (accepted): Howick and Grey bridge, \$1,075 (accepted): Kirkton bridge, \$1,365; Kirkton bridge, \$83, Abutments: Frank Gutteridge, Seaforth -Westfield bridge, centre abutment, per cubic yard, \$5,50 (accepted); Wingham bridge, \$4,75; Howick and Grey, \$5; Kirkton, \$5,50. Chas. Barber, Wingham -Wingham bridge abutments, \$4,75 ham bridge, \$1,280; Howick and Grey

March 2, 1904





Sole Agent for U.K. and Colonies for Oldest Continental Works

Supplying to Contracts on the Principal Railways, Large Sewage and Sea Defence Works, etc., in England. Will be Pleased to Quote to the Wholesale Trade Only.

CORRESPONDENCE INVITED FOR CONTROL OF BRANDS



March 2, ccepted);

\$4.75 (accep ---Westfield

ments, per c posed addi tenders wer Cooper, of Stevens & McKenzie, London, is MONTR Contagious brooke stre tenderer, \$ missioners tenders for Peck Rollin L. F iron. iron, Peck Caverhill, iron, B. steel, ordin pany; mach & Co.; pr wharf spik nails, Mon washers, carriage t pany ; gas pipe fitting

pany; pipe brass and Bros.; iron

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Manufacturer LERRICKS

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March 2, 1904

accepted); Howick and Grey abutments, \$4.75 (accepted). Frank Nagle, Hullett -Westfield bridge complete for all abut---westheid bridge complete for all abut-ments, per cubic yard, \$5,85,...For pro-posed additions to House of Refuge tenders were received as follows: S. S. Cooper, of Clinton, \$9,000 (accepted); Stevens & Sterling, \$9,500; Thomas McKenzie, \$10,696. H. C. McBride, of London, is architect.

MONTREAL, QUE. - Erection of Contagious Diseases Hospital on Sher-brooke street : Ald. Payette, successful tenderer, \$180,000.—The Harbor Comtenderer, \$180,000,-The Harbor Com-missioners have accepted the following tenders for supplies: Large bar steel, Peck Rolling Mills; ordinary Canadian iron, L. H. Herbert; refined Canadian iron, Peck Rolling Mills; Norway iron, Caverhill, Learmont & Co.; Lowmoor iron, B. J. Coghin & Co.; machinery steel ordinary. Edward Cauncouk Comiron, b. J. Cognin & Co.; machinery steel, ordinary, Edward Cavinagh Com-pany; machinery steel, bert, B. J. Coghlin & Co.; pressed spikes, L. H. Herbert; wharf spikes, Peck Rolling Mills; cut nails, Montreal Rolling Mills; inits and washers, Cavenbill, Learmont & Co.; carriage block Letang, Hardmark Com. washers, Caverbill, Learmont & Co.; carriage bolts, Letang Hardware Com-pany; gas pipes, Fairbanks Company; pipe fittings, malleable, Fairbanks Com-pany; pipe fitting-, cast, Samuel Fisher; brass and bronze castings, Rubinstein Bros.; iron castings, Pascal Amesse; pine

CANADIAN CONTRACT RECORD

William Sclater Company; coal pitch, William Sclater Company; coal oil, William Sclater Comoany; castor oil, Henry Dobell & Co.; tallow, Darling & Brady; boiled linseed oil, W. E. Dickson; turpentine, Letang Hardware Company; white lead, Montreal Rolling Mills Com-pany; manilla rope, Edinburgh Roper and Sail Cloth Company; sal soda, Henry Dobell & Co.; concentrated lye, Darling & Bradu pitch. & Brady.

NOTES.

W. F. VanEuskirk, of Rossland, B. C., has been appointed City Engineer of Brandon, Man.

Premier Murray has introduced in the Nova Scotia legislature a bill providing for the superanuation of Dr. Martin Murphy, provincial engineer. The superanuation is not to exceed \$2,000 and the retirement is to date from May 1st. Dr. Murphy, two years ago, was honored by being elected president of the Canadian Society of Civil Engineers.

Water Washed Sand



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NEW COMPANIES.

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E. Van Allen & Co., Limited, Hamilton, Ont., incorporated, to manufacture textile Provisional directors, E. fabrics, etc. Van Allen, Wm. Southam, Chas. S. Scott and George L. Staunton.

Brantford Hosiery Company, Limited, Brantford, Ont., incorporated, capital \$75,000, to manufacture knitted hosiery and underwear. Directors, Frank Cock-shutt, R. J. Strauss, John H. Hines.

Hamilton ndon & Lake Eric Ralway Company, seeking incorporation, to con-struct railways between Hamilton and London and through the townships of Townsend and Wingham. Watson, Smoke & Smith, Toronto, solicitors.

Enoch James Roofing Company, Lim-ited, Montreal, incorporated, capital \$50,-000, to manufacture a patent roofing and do a general roofing business. Incorpor-ators, Enoch James, A. G. F. Ross and others

Canadian Traction & Power Company, Montreal, seeking incorporation, to con-struct a railway from Montreal to Ottawa. Lewis Boyer, Montreal, solicitor for applicants.

cants. Montreal Carriage Leather Co., St-Henri, Que., incorporated, capital \$2507, 000, to carry on business of merchants and manufacturers and dealers in carriage and other leathers. Incorporators, J. A. Stevenson, Wm. T. Silverson, and others. of Montreal.

Macdonell Construction Co., Limited, Montreal, incorporated, capital \$500,000, general contractors. Incorporators, J. A-Macdonell, contractor, of Fernie, B. C., Hugh A. Burbidge, of Ottawa, and others.

Crawford Double Rope Aerial Tramway Crawford Double Kope Aerial Framway System, Limited, Nelson, B. C., incor-porated, capital \$10,000, to acquire pat-ents and to manufacture aerial tramway traction rope clip, automatic bucket load-er and other apparatus. E. F. Crawford, B. C. Travis, William F. Perry, of Nelson, D. C. B. C.

Spruce Creek Power Company, Limited, incorporated by British Columbia Govern-ment, capital \$150,000, to develop water powers and generate electricity.

Vancouver Clear Cedar Mill Co., Limited Vancouver, B. C., incorporated, capit-ed Vancouver, B. C., incorporated, capit-al \$25,000, to conduct a saw-milling bus-iness. A. B. Betts, A. C. Davidson, Harold Urquhart, of Vancouver.



The Hamilton Bridge Works Company, Limited HAMILTON, CANADA

NOTICE

Owing to the tremendous accumulation of snow, it is alsogether likely that heavy floods will occur when soft weather comes in the spring. Even with ordinary conditions, many bridges are carried away by floods, and therefore, under the conditions that may be reasonably expected to govern the coming spring, it is likely that many bridges, that have stood through the floods of previous years, will be lost this year. We have provided for such a state of affairs and have put into stock about 3000 tons of steel, suitable for bridges of all kinds, and are prepared to furnish spans from standard lengths in the shortest possible time. Kindly keep this in mind, and if your municipality should require any bridges, communicate with us by telegraph or letter and we will give the matter our promot attention. letter and we will give the matter our prompt attention.

HIGHWAY BRIDGES A SPECIALTY Large Stock I BEAMS, CHANNELS, ANGLES and PLATES **CENERAL STEEL CONTRACTORS** always on hand.



BUSINESS NOTES.

The Laval Electric Company, Montreal, is applying for incorporation. Rochon & Paquette, contractors, Mon-

treal, have dissolved. Joseph St. Jean dit Lagarde has registered proprietor of the business of St. Jean & Fils, contractors, Montreal.

Daniel Dow, proprietor of the Grand

Forks Foundry & Machine Shop, Grand Forks, N. D., has established a branch in Winnipeg, where he will manufacture all kinks of architectural iron work.

The Enoch James Roofing Company, Limited, has been incorporated, to acquire from Enoch James, of Montreal, the patents issued to him by the Dominion Government for a roofing process and to do a general business as roofers, sheet metal workers, manufacturers of James' patent roofing, etc.

March 2, 1904

J. A. McCrae, of Niagara Falls, and John Ross, of Toronto, railway contractors, have opened offices in Woodstock, Ont., as headquarters while they are engaged in double-tracking the Grand Trunk Railway between London and Paris.



Installed

Steam, Hydraulic, Electric, Gasoline, Air Lift and Automatic Rams.

Steam Boilers and Filters

The John McDougall CALEDONIAN IRON WORKS CO., LINITED

MONTREAL, P.O.



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CANADIAN CONTRACT RECORD



SEWAGE DISPOSAL AT PROVINCIAL GAOL, VICTORIA, B.C. (Concluded.)

AERATING TROUGH-The trough is a box of No. 26 galvanized iron, provided with slits in the bottom and end, set 15 inches above the conductor, and fed by the 6 inch pipe before mentioned.

CONDUCTOR-The conductor is a level concrete trough, of which a cross section is shown on the drawing, and has ample capacity for one discharge of the flush tank. It is provided with eleven tapering outlets, furnished with stops so as to divert the flow to such distribution channels as require irrigation. The tanks and catch pits are provided with plank covers.

DISTRIBUTION CHANNELS - Owing to some misapprehension, the channels were not placed as shown on the drawing, but small gutters were cut below the general surface of the ground. It is, however, intended to carry out the original plan this year after the removal of the crops.

AREA IRRIGATED -Before the sewage was turned upon the land, about a quarter of an acre was thoroughly dug, and the sewage has generally been applied to this area, though occasionally diverted to an adjacent piece under cultivation.

RESULTS-It is thought that the forego ing description, with the drawing, will convey a clear idea of the method adopted, and it only remains to mention the results obtained. It is to be regretted that the degree of purification attained cannot be stated, as no analysis has been made either of its influent or effluent. The sewage was first turned into the tank on the 20th December, 1901.

All sewer gas has been completely cut off between the catch pit and the goal, and there is a marked improvement in the sanitary condition of the building. The surface scum in the septic tank was of very slow growth ; indeed the tank was working fully six months before a complete coating was formed. During that period the effluent was very turbid and somewhat offensive. Since then there has been a marked improvement. Though not absolutely clear, it is inoffensive, except when confined for some hours in the conductor. The surface in the septic tank in May, 1903, was completely covered with a coating about two feet thick, from which no offensive odors arise.

On the 18th May, 1903, a sludge pump was placed in position in case there should prove to be a considerable amount of sludge deposited during the eighteen months' work of the tank. In that period from 650,000 to 800,000 gallons of sewage must have passed through the tank. The pump has a 21/2" suction reaching to 81/4" above the bottom of the tank. On starting it, no sludge deposit was found at that depth, the discharge being precisely similar to that of the catch pit. The pump was placed in position, so that, in the event of the tank area available for liquid sewage becoming restricted, it would always be possible to remove a few yards of sludge without disturbing the surface scum and with the least possible trouble and annoyance.

The character of the soil, which, as before stated, was an unproductive clay, appears to be much improved. Sweet

corn, peas, cabbages, beets, carrots and leeks have been raised of excellent quality and it appears not improbable in the future that the value of the crop might equal the interest and sinking fund for the original outlay.

outlay. The cost of the whole plant—common labor being furnished by the prisoners— has been as follows, and includes tearing up and replacing the old sewers and trench-ing, about 150 feet of which was in rock : Lumber and Haulage......\$50 78 Cement (32 barrels at §3.50).. 112 00 Haulage of Cement, Shingle and Sand.........52 55

JOHN GALT, C.E.&M.E. CONSULTING ENGINEER and EXPERT National Trust Building Toronto 20 King Street Rast Toronto Specialties-Water Supply and Sewerage.



March 2, 1004

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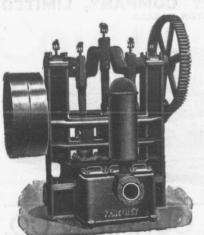
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