

CANADIAN CONTRACT RECORD

A WEEKLY JOURNAL OF
PUBLIC WORKS • TENDERS • ADVANCE INFORMATION • ANY MUNICIPAL PROGRESS

EVERY WEDNESDAY

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

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FEBRUARY 20, 1901

No. 3

THE CANADIAN CONTRACT RECORD, PUBLISHED EVERY WEDNESDAY

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TENDERS WANTED

For the supplying of materials for, and the construction of, a steel trestle and trestle approach to a bridge across the River Thames in the County of Kent, at the Town line of Harwich and its ward Townships.

Length, about 130 feet in four spans with a clear roadway of 16 feet.

Concrete abutment. Concrete base to each trestle. Specifications and plan prepared by W. G. McGeorge are at the office of the County Clerk at Chatham.

Tenders for concrete and superstructure separately or as a whole.

No tender necessarily accepted.

Tenders to be accompanied by a marked cheque for one hundred dollars as a guarantee of good faith, and to be in my hand, or in Chatham post office on the 8th DAY OF MARCH, 1901.

Cheque of unsuccessful applicant will be returned.

J. C. FLEMING,

Clerk County of Kent.

PROVINCIAL DEBENTURES

Sealed Tenders marked "Tenders for Debentures," and addressed to the Receiver-General of New Brunswick, at Fredericton, will be received at this office until WEDNESDAY, THE TWENTY-SEVENTH DAY OF FEBRUARY, next, at 5 o'clock p.m., for the purchase of the whole or part of the following Provincial Debentures:

\$100,000 in three per cent. Debentures, 40 years to run, in denominations of \$50 each, dated 1st January, 1901, with half-yearly coupons attached, issued under authority of Act of Assembly, 19 Vic., Cap. 3, "An Act further to provide for the Erection of Permanent Bridges."

The above debentures will be delivered, and the funds therefor payable at the Receiver-General's Office, at Fredericton, within one month after acceptance of tender.

The highest or any tender not necessarily accepted. The sum of 2½ per cent. on the amount of the accepted tender must be deposited with the Receiver-General within three days after receipt of notice of acceptance.

All tenders and communications to be strictly confidential.

The Act under which these Debentures are issued, contains no provision for optional redemption before expiration of 40 years.

Further information relating to these debentures, if required, will be furnished on application to the Receiver-General.

L. J. TWEEDIE,

Provincial Secretary and Receiver-General's Office,
Fredericton, 5th February, 1901.

SITUATION WANTED

Architectural Draughtsman desires situation, young man; references.

N. MOFFATT,
Renfrew, Ont.

Debentures For Sale

Sealed Tenders, marked "Tender for Debentures," will be received by the undersigned up to noon on WEDNESDAY, FEBRUARY 27TH, 1901, for Local Improvement Debentures of the Town of Lindsay, aggregating \$22,000.00 (\$10,000.00 repayable in ten years and \$12,000.00 repayable in twenty years), all at four per cent. in equal instalments of principal and interest.

No tender necessarily accepted.

F. KNOWLSON,
Town Treasurer.

Lindsay, February 8th, 1901.

NOTICE TO CONTRACTORS

The Board of Works of the City of Brantford will receive up to twelve o'clock, noon, (TUESDAY), 11th TWENTY-EIGHTH DAY OF FEBRUARY, 1901, tenders for a

15-Ton Road Roller

Contractors to supply full specifications and photographs of their respective rollers, to be delivered on the streets of Brantford not later than First day of May, 1901.

The lowest or any tender not necessarily accepted. Tenders to be addressed to Robert Hall, Esq., Chairman of Board of Works, in care of H. F. Leonard, Esq., City Clerk, and marked "Tenders for Road Roller."

H. F. LEONARD,
City Clerk.

CONTRACTS OPEN.

WATFORD, ONT.—The G.T.R. will build a new station here.

LACOMBE, N.W.T.—T. Cummings is about to build a residence.

DEVIZES, ONT.—W. Dawson will build a residence this spring.

HANSFORD, N. S.—A large barrel mill will be built here this season.

TILBURY, ONT.—George Chalmers purposes building a new residence.

MCGREGOR, ONT.—Steps are being taken to build a new R. C. church here.

CALGARY, N.W.T.—A motion has been introduced in council to borrow \$30,000.

GORDON BAY, ONT.—James Barner will shortly commence to rebuild his saw-mill.

STAYNER, ONT.—The Government will be asked to build a new postoffice here.

FONTHILL, ONT. The council will likely take steps to purchase a fire engine.

MILLTOWN, N. B.—The E. B. Eddy Co., of Hull, may start a match factory here.

DAVISVILLE, ONT.—S. Dingle purposes building two dwellings on Yonge street.

SHERKSTON, ONT. It is the intention

of F. Bearss to erect a residence next summer.

TORONTO JUNCTION, ONT.—Mr. Ellis, chief magistrate, purposes erecting a residence.

WOODSTOCK, ONT.—Work is expected to commence in the spring on the Y.M.C.A. building.

CARBERRY, MAN.—Murphy, Brown & Co., hardware merchants, will erect a business block.

THORNHILL, ONT.—J. Shutters wants tenders for painting, kalsomining and papering Methodist church.

ORILLIA, ONT.—It is proposed to form a stock company here to build a large hockey rink, to cost \$3,000.

COLLINGWOOD, ONT.—The Cramp Ontario Steel Co. are about to let contract for cr. work for docks here.

PORTAGE LA PRAIRIE, MAN.—It is understood to be the intention of R. P. Campbell to erect a brick block.

BRANTFORD, ONT.—The plans for suitable building for the Y.W.C.A. have been prepared by G. W. Hail, architect.

PORT DOVER, ONT.—A by-law granting a bonus of \$10,000 to the Canadian Steam Carriage Co. has been carried.

LAKE MEGANTIC, QUE.—The ratepayers have defeated the by-law to borrow \$36,000 for waterworks and sewerage.

CAMPBELLTON, N. B.—D. McIntyre invites tenders up to the 22nd inst. for erection of brick veneer manse at Largie, Dunwick.

HUNTSVILLE, ONT.—The council will petition the Dominion government to erect a new bridge over the Muskoka river.

THREE RIVERS, QUE.—A large deputation from this city have asked the Dominion government to build extensive docks here.

BARRIE, ONT.—The county council has appointed a committee to repair or rebuild the bridge over Wye river at Wyebridge.

GODERICH, ONT.—The trustees of S.S. No. 10, Hullet and Goderich township, are asking for tenders for erection of brick school.

BOLSOVER, ONT.—Bids are invited by H. Fottitt up to 26th inst. for building brick school house with basement in S. J. No. 5, Eldon.

FITZROY HARBOR, ONT.—A company is considering the development of the water power of the Chats Rapids. G. Kidd, M.P.P., is interested.

BELMONT, MAN.—The ratepayers have decided to build a new school house. Plans for a two storey four-room building will be obtained at once.

INGERSOLL, ONT. A committee has been appointed to secure a site for proposed hospital. Particulars from Rev. Jas. Grant or Justus Miller.

WHITBY, ONT.—The president of the Board of Trade, in his annual address:

refers to the necessity of immediately constructing a waterworks system.

SYDNEY, N.S.—The church of England congregation have decided to build a new stone church, John Vooght having promised a liberal subscription.

NORTH TORONTO, ONT.—The council will this week locate the site for reservoir and pump house for waterworks system; R. E. Speakman, engineer in charge.

MADOC, ONT.—Frank Pearce has decided to commence in the spring the erection of a modern residence, from plans prepared by an American architect.

CHARLOTTETOWN, P.E.I.—It is the intention of the Provincial Government to construct a steel bridge over the North river, to be 600 feet in length, cost about \$80,000.

CHATHAM, N.B.—The Steam Navigation Co. have instructed President Burchill to call for tenders for building a steamboat 110 feet in length and 9 feet in depth.

QUEBEC, QUE.—Clinton Wilson, representing New York capitalists, is said to have completed arrangements for the erection of a theatre building on the Academy site.

HANOVER, ONT.—The town will give a loan of \$25,000 to the Knechtel Furniture Co. to assist them in rebuilding their factory, and will also spend \$20,000 on a waterworks system.

LISTOWEL, ONT.—A by-law to grant a loan of \$10,000 to assist Wm. Hess in establishing a chair factory in this town will be submitted to a vote of the rate-payers on March 11th.

LINDSAY, ONT.—The Board of Trade are taking steps to secure the erection of a large summer hotel, costing \$50,000, at Sturgeon Point. For information write R. G. Matchett, this town.

POINTE ST. CHARLES, QUE.—At a meeting held last week a committee was appointed to wait upon the council in reference to subways and to request the G.T.R. to build a new station here.

VICTORIA, B.C.—A motion has been introduced in council that the city engineer secure information regarding the best sewerage system, with a view to completing the system in this city.

HAMILTON, ONT.—The sewers committee will ask the council for an appropriation of \$21,300 for the Catherine street sewer, \$10,810 for the Birch ave. sewer, and \$6,320 for general work.

FORT COULONGE, QUE.—A deputation has asked the Dominion Government for an appropriation of \$40,000 to aid in the construction of an interprovincial bridge between this place and Gore Point.

NANAIMO, B.C.—Dennis Harris, C.E., has prepared plans for the proposed bridge at Extension ravine; estimated cost, \$6,000.—James Kelly, architect, has just taken tenders for an addition to the Union Brewery.

CHATHAM, ONT.—The Dominion Government will be asked to dredge the Thames river at this place.—D. McLachlan & Co., of the Canada Business College, have asked the council for a loan of \$12,000 to assist in erecting a college building.

ST. CATHARINES, ONT.—Representatives of the St. Catharines Street Railway Co., Niagara, St. Catharines & Toronto Railway Co., and the city council held a conference last week regarding the erection of a new bridge on Queens-street estimated to cost about \$6,000. An adjournment was made for one week.

FREDERICTON, N.B.—C. H. LaBilloy, Commissioner of Public Works, invites tenders up to March 4th for rebuilding the North Tay Creek bridge, York county, the Murray bridge across North river, Westmoreland county, and

Hoar's bridge across same river, also for masonry substructure and approaches for Oak Bay bridge, Charlotte county.

BRANDON, MAN.—Plans have been prepared by W. H. Shillinglaw, architect, for store building on Rosser avenue for N. Atton & Kelly, two story and basement, heating, plumbing; cost \$4,000.—Tenders will shortly be called for stained glass, seating and steam heating for Presbyterian church. W. H. Shillinglaw, architect.

ST. JOHN, N.B.—It is expected that the Government will build a new drill shed here.—Charles Burrill, of Weymouth, N.S., and B. F. Pearson, of Halifax, were in the city last week in connection with the purchase of the Knight lumber property at Musquash for pulp mill purposes. It is reported that the construction of the mill will be commenced early in the spring.

GUELPH, ONT.—The Bell Organ & Piano Co. are in need of increased accommodation.—The building of a new school in the west end of the city is being advocated.—The trustees of the estate of the late H. A. Massey, Toronto, have made a proposition to the Ontario Government to erect a library building and convocation hall at the Agricultural college in this city, at a cost of \$40,000. The Government is asked to erect a new building for the laboratories and museum.

OWEN SOUND, ONT.—The National Portland Cement Co. is being formed, to establish cement works in Grey county. R. H. McWilliams, of this city, and P. W. Stanhope, of Toronto, are interested.—Rev. F. X. Granother has just taken tenders for completion of sanctuary in St. Mary's church.

WINNIPEG, MAN.—The School Board will shortly call for tenders for addition of four class rooms and an assembly hall to Albert school, from plans prepared by H. McGowan, architect.—It is reported that Mackenzie, Maun & Co. will probably reject all tenders put in for the masonry work of the new bridge over the Rainy river, and do the work by day labor.—The congregation of St. Stephen's church have decided to build a new edifice. Particulars from Prof. Hart.

HALIFAX, N.S.—A special committee has been appointed by the council to select a site for a power house for a civic electric light plant.—Capt. A. B. Wolvin, of Duluth, and other representatives of the American Ship-building Co., have arranged to establish a ship-building plant in this city.—Plans of pile wharf to be built by the Dominion Government at Eskasoni are on view at office of C. E. W. Dodwell, resident engineer, this city.—The Halifax Tramway Co. are about to make extensions.

LONDON, ONT.—H. McBride, architect, is this week taking tenders for erection of a brick stable for Sanitary Dairy Company.—Line, McDonald & Co. contemplate making an addition to their factory on Clarence street.—H. C. McBride, architect, is preparing plans for house in South London.—Herbert Matthews, architect, is getting out plans for two new houses to be built on Adelaide street, East London.—Herbert Matthews, architect, wants tenders by 28th inst. for erection of two dwellings, corner Queen's avenue and Adelaide street, for V. Cronyn.—The council will likely take up the question of the purchase of a chemical fire engine.

KINGSTON, ONT.—H. P. Smith, architect, has just taken tenders for clearing site and excavating for a new building, corner Bagot and Brock streets, for the Clarified Milk Company.—The city may purchase a street cleaner.—The city engineer has been instructed to invite tenders for annual supply of lumber, hardware, etc.—Arthur Ellis, architect, has taken orders for erection of residence

on Union street.—It is reported that the plans of Symons & Rae, architects, of Toronto, have been accepted for the new buildings for Queen's University, and that Power & Son, of this city, will act as superintendents and consulting architects. The buildings will cost about \$70,000.

VANCOUVER, B.C.—It is probable that architects will be invited to submit plans for a new hospital building.—C. A. Gordon, of the firm of James Robertson & Co., will build a large warehouse adjoining the Brackman-Ker warehouse on Hastings street, and William Braid & Co. will erect a similar building on adjoining property. The two buildings will be four stories, stone fronts, cost \$50,000.—It is reported that F. M. Rattenbury will have charge of proposed improvements to the C. P. R. hotel in this city.—Evans, Coleman & Evans have purchased a marble quarry near Sumas, Wash., and intend to establish cement works. The works will be located on the Canadian side and will cost \$200,000.

MONTREAL, QUE.—The Union des Abattoirs have made a proposition to the council to build an abattoir at Point St. Charles, to cost \$100,000. M. Ducharme is president of the company.—The Protestant High School Board are considering the erection of a new senior school.—Building permits have been issued as follows: Nap. Deslauriers, two three story houses, 366 St. Dennis street, cost \$4,500 each; E. Taugus, warehouse, 242 Island street, cost \$1,000; Joseph and Ed. Latreille, three two story houses, Bienville street, cost \$2,000 each, also three two story houses, Massue street, cost \$2,000 each; J. S. Lamarche, two two story houses, Bayer street, cost \$1,800 each; Jos. Daniel, six two story houses, Berrie street, cost \$2,000 each; J. A. Bouin, four story house, 176 Hubert street, cost \$1,150.

OTTAWA, ONT.—R. B. Whyte proposes erecting a four story building on the property now occupied by H. H. Brennan, wholesale grocer.—A three story building will be erected in the spring on the site of McKinley & Northwood's store.—M. C. Edey, architect, is this week taking tenders for club house to be built at Aylmer for Victoria Yacht Club.—Jos. R. Roy, Acting Secretary Department of Public Works, invites tenders up to March 1st for construction of pile wharf at Eskasoni, Cape Breton County, N. S. Plans at above department.—Tenders for the construction of a wharf at Coles Point, Westmoreland county, N.B., are invited by the Government up to March 8th. Cheque for \$4,000 to accompany tender.—Tenders are invited by the Department of Public Works up to March 1st for construction of bank protection at Point Wolfe, Albert county, N.B. Plans at above department, on application to postmaster at Point Wolfe, C. E. W. Dodwell at Halifax, and E. T. P. Shewen at St. John.—Plans are being prepared for a large three story stone addition to the Rideau street convent, to include dormitories, studio, drawing room, dining hall and private rooms.

MONTREAL, QUE.—The Harbor Commissioners have decided to carry to completion this year the building of the whole flood protection wall and the widening of Common and Commissioners streets.—L. O. David, city clerk, invites tenders up to noon of 21st inst. for supply of curb stone required during the year, also of 2,000 feet of double jacket fire hose, with couplings, and 50 salvage covers.—The city surveyor has prepared a plan of the streets in need of paving. Cost is estimated at \$2,500,000, and includes: Commissioner street, from Berri to McGill, \$146,000; St. James to western city limits, \$58,000; St. Antoine, from St. James to city limits, \$78,000; St. Cather-

inc. from Fort street to western limits, \$83,000; Ontario, from eastern limits to Pineau street, and from St. Lawrence to Bleury, \$177,000; St. Denis, from Duluth avenue to C. P. R. tracks, \$124,000; Rachel, from Frontenac to Park avenue, \$116,000; Dorchester street, part not paved, \$78,000; Lagachetiere, Bleury to Windsor, \$40,000.

TORONTO, ONT.—S. H. Townsend, architect, is preparing plans for a residence to be built at Sherbrooke, Que.—A. W. Holmes, architect, 170 Spadina avenue, is preparing plans for a brick and stone R. C. church at Cardwell, Ont., cost \$6,000, also for one at Brock, cost about \$4,000.—The Toronto Electric Light Co. are considering the question of opening an office in the business section of the city, and may purchase Temperance Hall for the purpose.—Plans are being prepared for rebuilding and remodelling the premises at 86 Yonge street for J. W. T. Fairweather & Co.—The St. Mary's Catholic and Athletic Association will erect a \$20,000 club house, corner of Bathurst street and Macdonell square.—E. J. Lennox, architect, has invited tenders for a warehouse to be built on Wellington street west, cost \$45,000, and will let the contract this week for club house for Queen City Yacht Club. He is also preparing plans for two residences to be built in the east end.—H. G. Paull, architect, is about to invite tenders for two houses on Lippincott street and for two pair of residences at Balm Beach. Same architect is preparing plans for a two-storey brick block, corner Huron and Sullivan streets, for S. King, for which tenders will shortly be invited.—A sub-committee of the Public School Board has recommended that a new school be built to relieve the overcrowding in Hamilton street and Bolton avenue schools, that Borden, Huron, McCaul, Dewson, Essex, Dovercourt road and Queen Victoria schools be enlarged, and that additional rooms be built to Withrow avenue and Kew Beach schools.—The Ontario Wind Engine & Pump Co. will immediately build a four storey addition to their factory on Atlantic avenue.—It is expected that the city engineer will shortly submit to council a complete report on the question of sewage disposal for this city.—The Board of Control will probably recommend to council the erection of a fire hall on the Cowan avenue property and another in the neighborhood of York and Wellington streets.—The city engineer, in his fortnightly report, recommends the following works: Dovercourt road, cedar block pavement, Churchill avenue to College street, cost \$2080; Metcalf street, asphalt pavement, 19 feet, Winchester to Carlton, cost \$3790; Lombard street, brick pavement, 40 feet, Church to Jarvis, cost \$7155; Huron street, brick pavement, Phoebe to Grange avenue, cost \$6460. Cement concrete sidewalks—Prospect street, north side, Rose avenue to Prospect street, cost \$531; Ontario street, west side, Carlton to Wellesley, cost \$903; Crawford street, west side, Arthur to College, cost \$1624; Prospect street, south side, Rose avenue to Ontario street, cost \$516; Prospect street, south side, Parliament street to Rose avenue, cost \$308.—Building permits have been granted as follows: A. W. Carrick, addition to factory, Temperance street, near Bay, cost \$4,000; Public School Board, school on Withrow avenue, cost \$11,500; Geo. Gooderham, alterations to brick dwellings, 440 to 448 Front street east, cost \$3,500.—It is understood that a syndicate is being formed in the city for the purpose of erecting 150 houses of moderate cost. It is also rumored that a loan company will build three costly houses on a street running into High Park.

F. Dufresne, contractor, Montreal, is reported to have assigned.

FIRES.

The Baker block at Deseronto, Ont., occupied by J. J. Kerr, dry goods, Hall & Stuart, tailors, and H. Kellar, saddlery; total loss.—Boliver's saw mill at Baker's Settlement, Lunenburg county, N. S.—Tenement house at Belleville, Ont., owned by Thomas Wills.—Sash and door factory of James Sparling at Meaford, Ont.; loss \$6000, insurance \$2700.—Presbyterian church at Georgetown, Ont., damaged to extent of \$6000.—Residence of Judge Constantineau and law office of C. Larose at L'Original, Ont., totally destroyed.—Shingle mill of John Collins at Honora, Ont.

CONTRACTS AWARDED.

MCADAM JUNCTION, N.B.—The C. P. R. have let contract for erection of new station here, of granite, 130x30 feet, two stories.

LARDO, B. C.—James McDonald, of Nelson, has secured the contract for construction of slip and wharf here for the C.P.R.; estimated cost, \$12,000.

BRANDON, MAN.—The contract for Presbyterian church has been let to John Forbes; contract price, \$23,943. Work will begin at once. W. H. Shillinglaw, architect.

ST. CATHARINES, ONT.—The tender of Joseph Battle, of Thorold, has been accepted for rebuilding a portion of the stone wall on lock 24 of the Welland canal; estimated cost of work, \$16,000.

SUMMERSIDE, P. E. I.—The contract for breakwater here has been given to McDonald & Moffatt, at \$55,000. Other tenderers: Reid & Archibald, \$74,490; R. R. Holman, \$75,000; R. C. McLeod, \$84,000; Mr. Birmingham, \$104,000.

KINGSTON, ONT.—Arthur Ellis, architect, has accepted the following tenders for a residence on Union street for John Marshall: Masonry, Douglas & McIlquham; carpentering, W. J. Chapman; hot water heating and plumbing, Joseph Jamieson; painting, glazing, etc., John Laird.

QUEBEC, QUE.—Peachy & Dussault, architects, have let contracts as follows for alterations to store property on St. John street for P. J. Cote: Emile Cote, masonry; L. Boivin, carpenter and joiner work; Vandry & Matte, plumbing, heating, etc.; J. Gauthier & Frere, glazing and painting.—The contract for erection of church at Ste. Felicien, Lake St. John district, has been let to H. Morn.

LONDON, ONT.—George Craddock, architect, has accepted the following tenders for building two houses on William street for Robert Angus: Mason and brick work, John Bryan; carpenter work, S. M. Gordier; plaster, Alex. Stewart; plumbing and gas fitting, F. C. Hunt.—Moore & Henry, architects, have let the contract for fixtures in Masonic rooms and in Bank of British North America to the Canadian Office & School Furniture Co., of Preston.—The contract for plumbing in

residence of W. R. Hobbs has been secured by Thomas L. Partridge.

HAMILTON, ONT.—The Canadian Sewer Pipe Co. have secured the contract from the city for sewer pipe. Their prices are as follows: 4 inch pipes 4 cents, junctions 20 cents, elbows 14 cents, traps 60 cents, stops 4 cents; 6 inch 6 cents, junctions 30 cents, elbows 30 cents, traps 90 cents, stops 5 cents; 9 inch 13½ cents, junctions 62 cents, elbows 58 cents, traps \$1.75; 12-inch 22 cents, junctions 95 cents, elbows 50 cents; 15 inch 35 cents, junctions \$1.60, elbows \$1.19; 30 inch \$2.70, junctions \$13.50; 24-inch 95 cents, junctions \$1; 18-inch 47 cents, junctions \$2, elbows \$1.62; 36-inch \$3.25, junctions \$18.

VICTORIA, B.C.—The following tenders were received by the city for supply of water pipe: Robert Ward & Co., 12 inch pipe, \$51.25 per ton of 2,240 lbs, 6 inch and 4 inch, \$55.20 per ton; Canada Foundry Co., Vancouver, 4 inch, \$54, larger sizes, \$53; Jas. Robertson & Co., Vancouver, 4, 6, 12 inch, \$46.40, including wharfage; Railway & Steel Supply Co., Portland, Ore., 6 inch and 12 inch, \$35.84, 4 inch, \$36.96, exclusive of duty and wharfage; Marine Iron Works, Victoria, 12, 6 and 4 inch, \$50.25; Boyd, Burns & Co., Vancouver, 12, 6 and 4 inch, \$44.74; Oregon Steel Co., Portland, 12, 6 and 4 inch, \$48.32, duty paid; Walter S. Fraser, Victoria, 12 and 6 inch, \$47.76; 4 inch, \$48.83; Geo. A. Walkem, Vancouver, 12, 6 and 4 inch, \$48.70.

FREDERICTON, N. B.—The public works department have awarded the following contracts for bridges: For rebuilding Gilchrist bridge, parish of Northfield, Sunbury county, to Enoch Welton, of Queens; re-building Gealy bridge, Petersville, Queens county, to John McKee, of Queens; Cold Branch Stream bridge, near coal mines, Welsford, Kent county, to L. J. Walker, of Harcourt; re-building South Branch Oromocto bridge to Joseph Noble, Kusiagomiss, Sunbury; re-building McGregor bridge, Finger Board bridge and Cottage bridge, parish of Dalhousie, to John Goulet, Charlo Station; re-building Dunbar bridge, York county, to M. Reardon, Kingsclear; re-building Sullivan bridge across Waweige river, Charlotte county, to Gilman & Alvin.

THE DOMINION ESTIMATES.

The estimates of the Dominion Government for this year presented to the House last week, include the following items:

RAILWAYS.

Intercolonial Railway.—Steel rails and fastenings, \$500,000; to complete highway bridge at Rocky Lake, \$3,000; to build new and enlarge old engine houses, \$75,000; to increase the accommodation at Sydney, \$100,000; to increase the accommodation at Halifax, \$50,000; to strengthen bridges, \$100,000; to increase accommodation at Levis, \$40,000; to dredge and blast rock at Halifax, \$10,000; to increase accommodation at St. John, \$100,000; to provide additional sidings along line, \$100,000; to provide increased facilities along

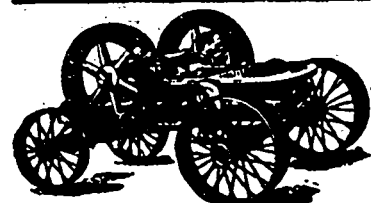
Good Roads Machinery Co. (Registered)

JOHN CHALLEN, Manager, HAMILTON, ONT.

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

Now introduced in every Province of Canada.

Send for Twentieth Century Catalogue.



STONE Crushers, Stone Spreading Wagons, Wheelers and Drag Scrapers, Plows, Steam and Horse Rollers, Road Graders, &c.

SAWYER & MASSEY COMPANY, Limited - Hamilton, Canada

line, \$50,000; to extend car shop at Moncton, \$25,000; to provide new superstructure for 6 spans Miramichi bridge, \$72,000; rolling stock, \$2,000,000.

Prince Edward Island Railway.—To increase length of sidings, \$5,000; to straighten line near Blue Shank, \$10,000; to provide and lay steel rail and fastenings, \$6,000; to provide machinery, \$5,000; Murray Harbor branch and Hillsboro' bridge, \$450,000.

CANALS.

Sault Ste. Marie canal, to deepen and widen entrance, \$100,000; Trent canal, construction, \$475,000; Soulages canal, construction and equipment, \$100,000; Lake St. Louis, hydrographic survey of lake, \$6,000; Lake St. Francis, removing shoals, \$15,000; Cornwall canal, enlargement, \$110,000; Farran's Point canal, enlargement, \$10,000; Rapide Plat canal, enlargement, \$75,000; Galops canal enlargement, \$330,000; North channel, forming, \$30,000.

Rideau canal.—To rebuild long bridge at Manotick, with steel superstructure, \$5,000; to rebuild masonry waste weir at Kingston Mills lock station, \$3,000; to provide new boiler for dredge Rideau, \$900.

Welland canal.—To remodel regulating weirs, valves and gates of the old lock at Port Colborne, \$10,000; to execute heavy repairs, \$30,000.

Lachine canal.—To renew masonry wall, basin No. 2, \$5,000.

Chambly canal.—To rebuild culvert at Little River Iroquois, \$10,000.

St. Ours lock.—To rebuild 2 piers above dam, \$1,300; to rebuild two pairs of lock gates, \$4,500.

Trent canal.—To build 4 sluices in dam at Healey's Falls, \$5,000; to rebuild new lock gates at Hastings, \$1,500; to rebuild dam at Peterboro', \$12,000; to dredge shoals in Trent and Otonabee river, \$4,000; to provide buoys for channel between Peterboro' and Lakefield, \$1,200.

St. Peters' canal.—To renew crib retaining wall, &c., \$2,000.

PUBLIC BUILDINGS.

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painting, etc., outside works including Eastern Block ironwork and, re-leading windows of Parliament building and library, \$7,000; Picton public building, \$8,000; St. Thomas drill hall and armoury, \$24,000; Sarnia public building, \$30,000; Toronto Dominion buildings, improvements, renewals, repairs, etc., \$4,000; Windsor drill hall, \$50,000; Woodstock public buildings, \$6,000.

Quebec.—Buckingham public building, \$7,000; Dominion public buildings, renewals, improvements, repairs, etc., \$12,000; Drummondville public building, \$9,000; Granby public building, \$12,000; Gross Isle Quarantine Station, \$10,000; Hochelaga post office, \$25,000; Hull post office, reconstruction, \$11,000; Levis cattle quarantine station, renewals,

improvements, repairs, etc., \$2,000; Montreal public buildings, improvements, alterations, repairs, &c., \$3,000; Quebec cartridge factory, rolling mill, \$5,000; Quebec Immigrant buildings on Louise embankment and break water, and Queens wharf buildings, \$1,000; Victoriaville public building, \$4,000.

British Columbia.—Dominion public build
(Continued on page 6.)

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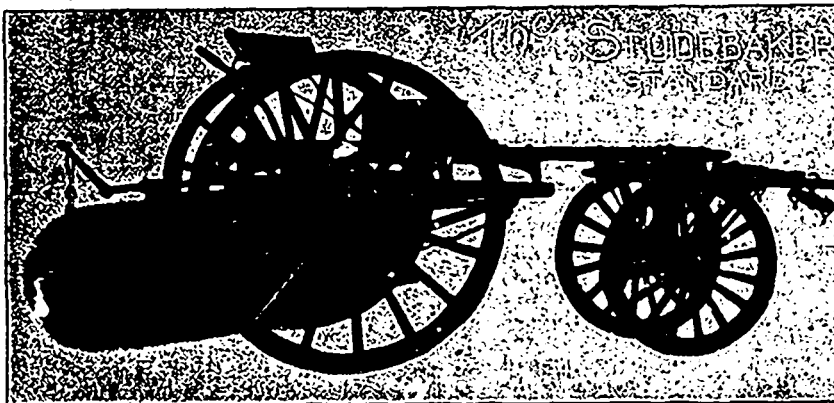


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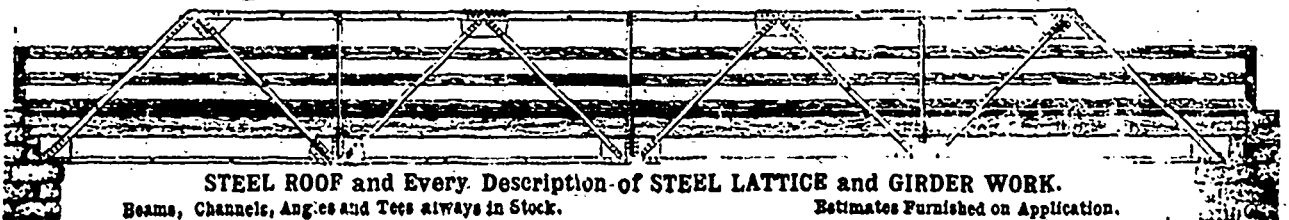
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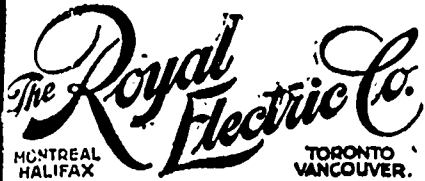
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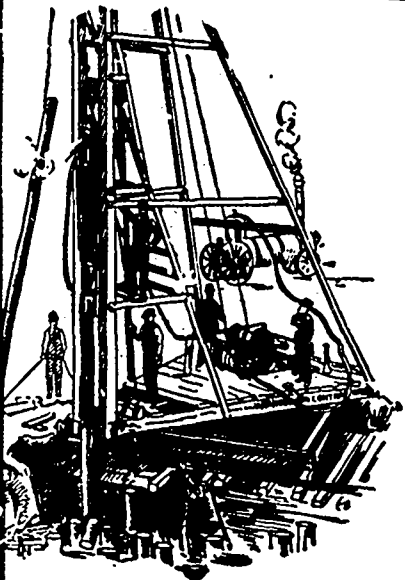
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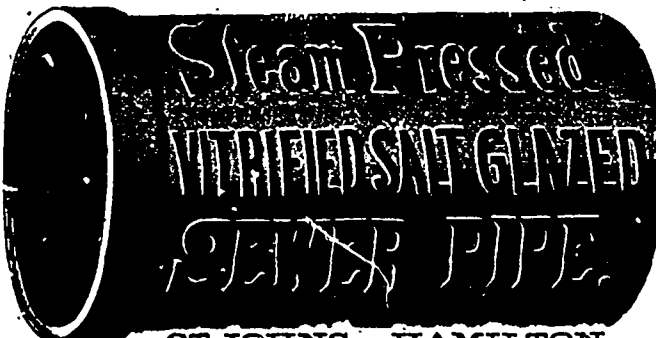
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New Brunswick.—St. John Dominion public buildings, improvements, alterations, renewals, repairs, etc., \$7,000; St. John immigration building, \$11,000.

North-west Territories.—Court house, lock-up and police accommodation, \$7,000; Dominion public buildings, renewals, improvements, repairs, etc., \$4,000; Edmonton (Strathcona) immigrant building, \$1,500.

Manitoba.—Dominion public buildings, improvements, repairs, etc., \$5,000.

(To be continued next week.)

BLASTING.

To lower the cartridge by the fuse or wires is apt to loosen the cap, and thus an air cushion will be formed below it, reducing the power of the explosion. Carelessness in regard to this simple detail is one of the commonest causes of waste in the use of dynamite. The primer must never be compressed or rammed upon the charge. The "tamping" is now put in. Many writers advocate the use of sand or water with dynamite in holes inclining downwards. The most experienced blasters, however, state very positively that better results are always obtained by using the same clay tamping as is required with black powder. Tamping should be absolutely free from gritty particles. The best material is clay, damp enough to merely retain its form when compressed into a ball in the hand. Pellets of this should be dropped into the hole and very lightly compressed with a wooden rammer until about six inches of the hole above the charge has been filled. From this point to the top the tamping may be more firmly compressed, but not rammed.

CHARGING HOLES WITH BLACK POWDER.

After removing the sludge, dry the hole with a wisp of hay, or a rag, or cotton waste, fastened to the end of a rod. Now pour in the powder through a copper or tin funnel with a long stem, so that the powder will reach the bottom of the hole without touching its sides above the limit of the charge. If the hole is horizontal a long scoop may be used, filled with powder, which at the end of the hole is turned round to deposit the charge. For either horizontal holes, or those inclined

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upwards, the powder may be put into small paper bags and closely pressed into the end. For wet holes waterproof cartridges must be made, as explained in Chapter 11. The fuse is now put into place, and in the case of holes filled with powder in bags the last bag should have the fuse tied into it. Dry clay is now pressed over the charge, followed by the ordinary damp clay tamping, pressed firmly for three inches, after which it may be rammed by tapping the end of the tamping stick with a hammer. In holes one inch in diameter the charge will not blow out 7 inches of good tamping. With a diameter of two inches, 18 inches of tamping will not blow out. With a diameter of three inches, 20 inches of tamping will not blow out. These are the lowest limits admissible. An excess should always be given. The amount of the charge has nothing to do with it. The determining factor is the diameter of the hole. "Expansion tamping," so called, is employed with black powder when it is desired to cause its action to be retarded so as to split the rock along lines of weakness without shattering. It is consequently of value in quarrying. This consists in filling several inches of the hole above the charge with hay, straw, or tow, after which several inches of damp clay tamping are lightly compressed upon it, followed by firmly compressed tamping to the top. By "reaming" the holes so that a V notch is cut on each side the entire length of the hole, making the angles of all the V notches lie in a straight line,

as shown in Fig. 3, a perfectly homogeneous rock may be split with extreme accuracy in any direction, using expansion tamping. Very small charges, of one to three ounces, will do astonishingly effective work under such circumstances. This is the Knox system. The use of the "needle" or "pricker" is so undesirable that no description of it will be given. The "barrel," or tube, may be used where the hole is wet. A copper tube is slipped over a wire, and the two are inserted together into the hole; the tamping is compressed around the tube, and the wire is then withdrawn, being replaced by the fuse. The tube is recovered after the blast. For electric firing of black powder low power fulminating caps are employed. It is erroneously stated by many that the power of the black powder is increased by the use of the fulminating cap, i. e., that it is detonated. Under special conditions it is claimed that gunpowder can be detonated, but it is even questionable whether true detonation is accomplished when the gunpowder has absorbed some nitroglycerine, though apparently in the Judson powder this result is reached. Consequently there is no advantage in the use of strong detonators with common black powder.

(Continued next week.)

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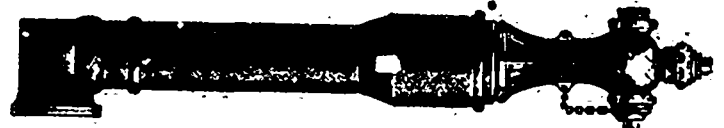
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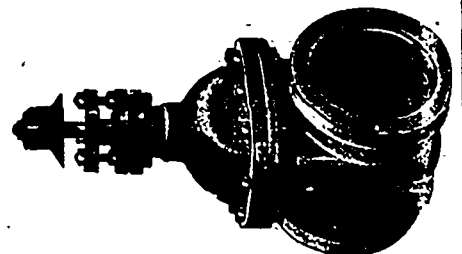
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