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WATERFORD, ONT.—The council has decided to construct several thousand feet of cement sidewalks.

ST. CATHARINES, ONT.—The St. Catharines Cold Storage Company will erect a building immediately.

BRADFORD, ONT.—Tenders for building a frame barn are wanted by James A. Wood up to June 3rd.

DALHOUSIE, ONT.—The ratepayers of Balmoral and Colborne have voted money for building new school.

KINGSTON, ONT.—The city engineer has estimated the cost of a sewer on Victoria street at \$7,400.

ROSEBANK, MAN.—Tenders close June 14th for building farmers' elevator. Plans at office of John Malcolm.

COLDWATER, ONT.—The Methodist congregation will either enlarge their church or build a new one.

WINDERMERE, ONT.—It is understood that a Sherbrooke, Que., company will construct a large hotel here.

NANAIMO, B. C.—The council will borrow \$4,000 for the purpose of purchasing a steam fire engine.

SINTALUTA, N. W. T.—The by-law to borrow \$2,500 to build a new school has been carried by the ratepayers.

TORONTO JUNCTION, ONT.—W. L. Joy has commenced the erection of a brick residence, to have slate roof.

THREE RIVERS, QUE.—The Board of Trade is promoting a scheme to build an electric railway to Grand Mere.

PETERBORO, ONT.—The town engineer has been instructed to advertise for tenders for granolithic sidewalks.

PENETANGUISHENE, ONT.—It is said that the owners of the tannery here purpose erecting another tannery.

HANOVER, ONT.—Bids are invited by H. H. Miller up to June 8th for erection of two-storey brick office building.

WALKERTON, ONT.—The members of the Evangelical Association purpose building a new church this summer.

ROSSLAND, B.C.—The Columbia and Western Railway Co. will let contracts immediately for building new depot.

GUELPH, ONT.—W. Frye Colwill, architect, is preparing plans for a detached pressed brick residence for J. F. Dutton.

LONDON, ONT.—The city council has given notice of its intention to construct cement sidewalks on a large number of streets.

ALMONTE, ONT.—The improvements to be made by the Rosamond Woollen Company will include a four-storey addition.

VICTORIA, B. C.—John Teague, architect, has taken tenders on erection of stores, tenements, etc., for F. E. Newberger.

PERTH, ONT.—Wesley James and W. H. James have each purchased property on North street and will erect residences thereon.

FORT WILLIAM, ONT.—No meeting of school trustees has yet been held to decide upon plans for proposed school building.

ST. HENRI, QUE.—The council will likely offer a bonus of \$20,000 to the Montreal Toilet Soap Company to erect a factory here.

NEWMARKET, ONT.—The Wm. Cane & Sons Mfg. Co. will erect a new brick building, 45 x 55 feet, covered with metallic shingles.

FERGUS, ONT.—J. H. Craig, of the Fergus News-Record, invites proposals up to June 10th, for erection of two-storey pressed brick house.

CREEMORE, ONT.—The question of constructing a system of waterworks for the village is under consideration. The cost would be about \$12,000.

LOWER STEWACKE, N. S.—Bids are wanted by June 5th for building new church at Landor, Lower Stewiacke. Plans at post office at Landor.

GREENWOOD CITY, B.C.—On Saturday

last the ratepayers voted on four money by-laws, one being to borrow \$15,000 for street improvements. Result not learned.

ASHCROFT, B.C.—The Ashcroft Water & Light Co. are about to irrigate 6,000 acres of ground. There will be ten miles of large ditching and four miles of main ditch.

GRANBY, QUE.—Bids for the laying of 5,000 lineal feet of 18 and 24 inch tile sewers are invited by J. H. Tompkins, secretary-treasurer to the corporation, up to June 3rd.

FARNHAM, QUE.—E. Audette, secretary-treasurer of the municipality, wants tenders by June 5th for construction of fire and police station and a market building.

LENOXVILLE, QUE.—Satisfactory progress is being made with the collection of funds to renovate the Arts Building of Bishop's college, in memory of the late Robert Hamilton.

WINDSOR, ONT.—The Windsor Bent Goods Co. has been incorporated, to manufacture bent-woods, hubs, spokes, etc. The directors include E. S. Spasheit and J. E. O'Connor.

WELLAND, ONT.—A by-law to raise \$21,000 to build permanent walks, \$8,000 for a town hall, and \$11,000 for a public school, will be submitted to a vote of the ratepayers on June 20th.

FERNIE, B.C.—The Crow's Nest Pass Coal Co. want tenders for the erection of a coal bin, to contain 3,000 tons of coal, and trestle leading to same. Plans at company's office here.

TAVISTOCK, ONT.—H. J. Powell, architect, of Stratford, is preparing plans for a new post-office and bank building for F. Krug.—It is reported that Geo. Fleischhauer will erect a business block.

EAST SELKIRK, MAN.—Sir Wm. Van Horne, of the C.P.R., has invited tenders for the erection of a substantial two-storey residence here, 40 x 90 feet, with stables, cow-sheds and barns covering a space of 300 x 30 feet.

QUEBEC, QUE.—The Harbor Commissioners will ask the government for power to guarantee trade for the Great Northern Railway to the amount of \$200,000 for ten years, in order to assist in the building of the road.

GOBERICH, ONT.—The Water & Light Committee have recommended the purchase of 1,900 feet of No. 6 insulated wire, also of a stoker for one of the boilers, and for leave to consider making an addition to the electric light plant.

MOOSOMIN, N.W.T.—Bids are invited by R. D. McNaughton, chairman School Board, up to Saturday, June 10th, for erection of six-room brick school building, with stone basement, from plans prepared by J. A. Ellis, architect, of Toronto.

WORKINGTON, NFLD.—The Newfoundland Iron Ore Co. invite tenders for the delivery at Old Pelican, Trinity Bay, Newfoundland, of a large quantity of 10 and 12 inch square spruce timber. Address, S. Herbert Williams, superintendent.

NIAGARA FALLS, ONT.—A representative of the firm of Kingsmill, Saunders & Torrance, Toronto, solicitors for the Canada Southern Railway, was in town last week in connection with the probable erection by the railway company of a large hotel at Falls View. It was stated that the hotel would cost \$200,000, and that it would be one of the best on the continent.

CALGARY, N.W.T.—F. M. Rattenbury, architect, of Vancouver, has prepared plans for a stone structure to be built at this place.—The waterworks question is attracting much attention. The Gas & Waterworks Co., whose contract expires in September next, offer to sell their plant to the city for \$110,000, but the council seem inclined to construct an entirely new system, the ratepayers having granted \$90,000 for this purpose.

PORTAGE LA PRAIRIE, MAN.—Members of the town and rural councils have been agitating for a bridge across the Assiniboine river. The town council at a recent meeting agreed to contribute \$5,000 for a wooden bridge or \$6,000 for a steel structure, the government and rural municipalities each to give a like amount.

RENFREW, ONT.—Richard Miller has purchased what is known as the Hazelton corner, with the intention, it is said, of erecting a new building thereon.—Tenders are being taken by the council this week for excavating and filling in for waterworks connections and extensions.—An agreement has not yet been finally reached by the council regarding the purchase of a road roller.

HALIFAX, N. S.—It is announced that the Imperial authorities have decided to construct another fortress, to be located near Herring Cove head. It has also been decided to remodel a large portion of the interior of the York redoubt for new batteries to be placed there.—A suggestion has been made that a building devoted to art and educative purposes be erected to the memory of the late Joseph Howe.—Kelly & Glassey are taking tenders this week on repairs to the Acadian hotel.

BRANTFORD, ONT.—Daniel Whiting, chairman of committee on county public buildings, desires tenders by June 15th for alterations and improvements to the court room in this city, consisting of re-flooring and reseating, removal of gallery, etc. Plans at court house.—A. K. Bunnell invites bids up to June 2nd for building an addition to the Darling street public school, from plans by Geo. W. Hall, architect.

NELSON, B. C.—The city council will call for tenders for sewer pipe to be required in the event of the \$15,000 by-law for sewer purposes being carried by the ratepayers.—A by-law granting a franchise for the erection of gas and coke works has received its second reading in council. The company, which includes W. H. Pearson, J. L. Merryfield, and J. T. Westcott, of Toronto, agree to expend at least \$100,000 on the works.—Plans will shortly be prepared for a new land registry office building, and it is probable that next year a court house will be erected.

ST. JOHN, N. B.—H. H. Mott, architect, has prepared plans for a tenement dwelling to be built by the Halifax Banking Company, on north side of King st. Same architect has prepared plans for a new hotel to be built in North Sydney, C.B., also for converting the marine hospital in this city into a school building, at a cost of \$13,000.—Plans have been completed for warehouse to be built by the Sun Oil Co.—An effort is being made to organize a company here to engage in the manufacture of box shooks and hardwood specialties.—F. J. Harding, agent of the Department of Marine and Fisheries, desires tenders by June 1st for construction of wooden buildings at St. Andrews, to be used as a marine biological station.—Director Smith has suggested that the council borrow \$50,000 for permanent street work, chiefly paving and grading.

HAMILTON, ONT.—By a majority of 111 votes, the ratepayers defeated the by-law to raise \$150,000 for permanent pavements. In view of this, the Board of Works have decided to spend about \$30,000 on the construction of tar-acadam pavements on the following streets: King street, from Bay to Locke; King street, from Wellington to Wentworth; James street, from Hunter to Aberdeen avenue; Barton street, from James street to Ferguson avenue; Barton street, from Wellington to Wentworth; York street, from McNab to Locke.—New tenders will be invited by the Sewers Committee for the supply of a

sludge pump for the sewage disposal works.—The Imperial Vinegar & Pickling Co. have purchased a site at Burlington on which to build a salting establishment.

The city engineer has placed before the Water Committee plans for improvements to the filtering basin, by which he advocates the enlarging of the present basin and the laying of another intake pipe.

VANCOUVER, B.C.—McLennan & McFeely are about to build a warehouse, corner of Hastings and Abbott streets.—Innes, Richards & Akroyd have purchased property on Cordova street on which to build stores.—Plans will shortly be completed for the new Canadian Bank of Commerce building.

WINNIPEG, MAN.—It is announced that the C. P. R. will build a mammoth hotel here this year, President Van Horne having inspected several sites recently.—Walter Chesterton, architect, has taken tenders on a residence at Roslyn Place, Fort Rouge.—Johnston & Stewart, Grain Exchange, are taking tenders this week on erection of three-storey brick warehouse on Main street.—Tenders close on Friday of this week for wiring the municipal buildings for electric light, also for the supply of one 100 h.p. high speed engine, together with shafting, pulleys, bearings, belting, etc., for the electric light plant. Address, C. J. Brown, city clerk.—Col. Ruttan, city engineer, has recommended that improvements be made to the General Hospital, including new basement, cost \$900, and improvements to drainage, cost \$600.—The Committee on Works have recommended that the following work be carried out: Cedar block pavements on lane between Ross and Pacific ave., cost \$1,775, on lane between Elgin and Ross ave., cost \$3,090; sewer on Austin street, cost \$1,350; macadam pavement on Clark street, cost \$3,060, and on Adelaide st., cost \$4,100; sewer on Main street, cost \$6,318, on St. Johns ave., cost \$21,399.50, and on Aiken street, cost \$4,950. Tenders for the above work will be invited.—It is believed that the Dominion government will grant \$50,000 towards the improvement of St. Andrew's rapids.

OTTAWA, ONT.—Surveyors are laying out the proposed board bicycle track at the college grounds. A grand stand, with seating accommodation for 3,000, will also be erected.—Prospects are bright for the construction of the Bank street subway, which is estimated to cost \$51,000.—The water power of the river Ottawa opposite the township of Onslow, comprising the rapids and falls of Les Chutes des Chats, is to be sold by the Quebec government on June 8th. The purchaser must agree to spend \$300,000 on improvements within three years.—The company formed in England to construct the Montreal, Ottawa and Georgian Bay canal has deposited \$200,000 in the Canadian Bank of Commerce in this city, in accordance with the provision of the statute incorporating the company. Mr. McLeod Stewart is the promoter of this scheme.—The city engineer has prepared specifications for the asphalt paving required this year. Work on Sparks and Sussex streets will be commenced immediately.—Contractors will shortly figure on the new geological museum building and the Maria street bridge.—Thos. Ahearn has purchased several lots at Tetreauville. It is understood that a factory will be erected there.—J. M. Cromwell, 27 Sparks street, wants tenders for the mason, carpenter, lath and plaster work on a number of veneered houses.—Building permits were last week issued as follows: Alexander Robertson, brick building on Queen street, cost \$5,000; Duncan Brown, brick veneered house, Gilmour street, cost \$2,000; W. H. York, brick veneered dwelling, Gilmour street, cost \$1,200; E. Gauvreau, brick veneered dwelling, St. Andrew street, cost \$1,000; James Heavey, five

brick veneered dwellings, Nepean street, cost \$6,000.—It is understood that an addition of about 300 feet will be made to the Canada Atlantic Railway workshops. The erection of a building for the making of boilers is also under consideration.

MONTREAL, QUE.—MacVicar & Heriot, architects, are building a Presbyterian church at Lachute, with seating capacity for 800. The block of five houses to be built in Weredale Park for J. B. O'Leary will be semi-detached, and will be done in brick and half timber work.—The Water Committee want tenders by June 13th for the annual supply of coal.—Inspector Champaine has made a report to the above committee regarding the pumping machinery at the high level reservoir. He recommends the addition of a pump of a daily capacity of 5,000,000 gallons, either worked by steam or electricity.—The Dufferin Falls Pulp & Paper Co., in which James Shearer, W. & F. P. Currie, and others, of this city, are interested, purpose establishing extensive pulp mills on the Du Lievre river.—Plans of sewers to be built by the corporation of Granby, Que., are on view at the office of McConnell & Marion, civil engineers, New York Life building.—Jos. Sawyer, architect, 621 St. Antoine street, will call for tenders this week for two stone houses to be erected on Souvenir street for Mr. Ledoux. Same architect has prepared plans for new fire station and market to be erected at West Farnham, Que.—W. E. Doran, architect, 180 St. James street, is about to call for tenders for interior finish and seating of the Catholic High School on Palace street, which is to be completed about September 1st. Same architect is calling for tenders for four houses to be erected on Tupper street for Mr. Collins.—The building inspector has granted a permit for alterations to two dwellings on St. Catherine street, Nos. 2357 and 2365, for A. T. Perrault, cost \$4,000.—H. Bergeron, architect, will build a house on St. Hubert street for the Loeurs de la Providence, to cost \$25,000.—The plans of Cox & Amos, architects, have been accepted for additions and improvements to the Church of St. James the Apostle. The new chancel will be constructed of pressed brick and Ohio sandstone, with marble mosaic flooring.

TORONTO, ONT.—S. G. Curry, architect, wants tenders by Saturday, June 3rd, for erection of factory building on Pearl street.—Gordon & Helliwell, architects, are taking tenders on building.—John Poucher, Arcade, wants tenders for excavating, plastering, plumbing, painting, roofing and galvanizing iron work of four houses on Parliament street.—In the estimates of the Public School Board the sum of \$7,000 is included as the cost of changing the dry closet system recently condemned by Judge McDougall. It is proposed to replace it with the flush system.—An influential deputation will go to Ottawa shortly to urge the government to provide accommodation at the armouries for the artillery and cavalry of the garrison.—A deputation, consisting of Messrs. Clergue, Hamilton and McKay, of Sault Ste. Marie, waited on the Premier last

week and asked for a land grant towards the construction of the first 35 miles of a railway from Sault Ste. Marie to Missanibie.—The Board of Control has referred back the recommendation to purchase the Allen lot on Queen street to enlarge the Cowan ave. fire-hall. The Board has been asked to grant \$10,000 to erect an art building at the Exhibition grounds.—The council has given notice of its intention to construct asphalt roadways on the following streets: James street, Albert to Louisa, cost \$3,430; Spruce street, Parliament to Sumach, cost \$10,500; Crawford street, Queen to bridge, cost \$11,630.—Building permits have been granted as below: Capt. J. P. Beaty, pair two-storey and attic brick houses, Nos. 1550 and 1552 King street west, cost \$5,000; Albert Welsh, two-storey brick warehouse, rear 306 Queen west, cost \$1,800; A. A. McKay, one-storey brick addition to store, 294 Queen street east, cost \$1,000; B. Brick, two-storey brick stable, rear Nos. 137 and 149 Church street, cost \$1,700.—James Gunn, J. M. Smith, A. M. Mackenzie, and others, of this city, have been granted a provincial charter as the San Paulo Railway, Light & Power Co.—F. H. Herbert, architect, invites tenders up to Friday of this week for the carpenter work of factory, stores and dwelling for John Patterson, to be built at the corner of Queen and McCaul street.—Tenders are wanted at 106 Adelaide street west for carpenter work of small house.

FIRES.

Houses at Sault au Recollet, Que., owned by F. X. Turcot, J. D. Beauchamp, Chas. Newman, F. Cote, James Howton, Joseph Paquette and J. M. Peppin; loss \$25,000.—Premises of Pabst Brewing Co., 600 St. Paul street, Montreal, damaged to the extent of \$5,000.—Residence of Robert Carrie in Harwich township, near Chatham, Ont.; loss \$1,500.—Residence of Elias Reamer near St. Catharines, Ont.—A considerable portion of the city of St. John, N.B., was destroyed by fire on the 25th inst., the loss being about \$500,000. Among the burned buildings are the following: Store and warehouses of J. W. McClary Company, store and house occupied by John McCann, W. J. Horncastle's house, Lorne Hotel, D. D. Glasier & Son's offices, Wm. Hayford's residence, Nase & Co.'s large wooden block, containing several stores, Tapley Bros.' offices, Captain Keats' store, warehouse and residence, and Arch. Tapley's residence.—Residences at Etchimin, Que.; loss \$10,000.—Robertson, Lindsay & Co.'s departmental store at St. Thomas, Ont., completely destroyed; loss on building, \$25,000.

CONTRACTS AWARDED.

TARA, ONT.—New school building: A. Gerolamy, contractor, \$5,253.

RENFREW, ONT.—Market building: S. McDougall, contractor, \$796.

PETERBORO', ONT.—For sub-structures of two bridges tenders were received by the town as follows: H. Evans, \$1,707.20 (accepted); R. Sheehy, \$1,752.; G. W. Ranney, \$1,852.; J. E. Hayes, \$1,909.20;

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C. Wynn, \$1,914; James Bogue, \$1,987.20; Martin & Rose, \$2,316; T. E. Wade, \$2,677.

VANCOUVER, B.C.—New wharf. Ironsides, Campbell & Rennie, contractors, \$8,453.

BERLIN, ONT.—Town debentures: G. A. Stimson & Co., of Toronto, purchasers, at \$15,705.

NEWCASTLE, N. B.—Completion of Miss Quigley's residence: Adams & Belyea, of Carlton, contractors.

MOUNT FOREST, ONT.—Cement walks: Guelph Paving Co., successful tenderers, to 1/4 cents per square yard.

WINNIPEG, MAN.—Fence surrounding Dufferin Park: Manitoba Anchor Wire Fence Co., of this city, contractors.

RAT PORTAGE, ONT.—\$95,000 of town debentures: H. J. Webber, of Toronto, purchaser, at 100 3/4 cents per one dollar.

INGERSOLL, ONT.—The corporation has purchased a road roller from the Buffalo Pitts Co.; price, \$2,900 for 12-ton machine.

ST. JOHN, N. B.—Heating J. J. McGaffigan's warehouse: F. C. McManus, contractor; other work will be done by day labor.

NANAIMO, B.C.—The contract for furnishing steam fire engine to the city has been awarded to the Ronald Fire Engine Co., of Brussels, Ont.

NELSON, B.C.—Brick block for Hudson's Bay Co.: Chas. Hillyer, contractor.—Bank of Montreal building (F. M. Rattenbury, architect): Mr. McLarty, contractor.

BROCKVILLE, ONT.—The James Smart Manufacturing Co. have been awarded the following contracts: Hot water heating plant, consisting of three "Perfection" boilers, for St. Francis-Xavier church, this town; "Perfection" hot water boiler for Episcopal rectory here; heating and ventilating school at Drayton by two "Kelsey" warm air generators.

LONDON, ONT.—Contracts for new St. James Presbyterian church have been let as follows: Masonry and brickwork, Everett & Sing; carpenter and joiner work, Jones Bros.; painting, glazing and stained glass, R. Lewis; lath and plastering, John Fern; electric wiring, R. M. Miller & Co.; sheet metal work, Wm. Wyatt & Son; slating, John Whittaker. The building will be red brick, with stone foundation, cost \$19,034. Herbert Matthews is architect.

MONTREAL, QUE.—Contracts for pavements have been let as follows: Asphalt and block repaving on Craig street, Northern Construction & Paving Co., Trinidad asphalt at \$2.25 per square yard; scoria block pavement on Anne street, F. D. Lawrence, \$1.57 per square yard for blocks, and 80 cents for hauling and laying in sand; repairing asphalt on St. James and Notre Dame streets, Sicily Asphalting Co., \$1.50 per yard. The La Prairie Pressed Brick Co. has been awarded the contract for bricks, at \$1.25 per yrd.—Peter Lyall & Sons have been

awarded the contract for mason work on the new Grand Trunk offices. The lower part of the building will be of grey granite from Stanstead Junction, and the balance of Oolitic limestone from Bedford, Indiana. The masonry contract amounts to over \$250,000.—The Bell Telephone Company will erect a building on Mountain street to be used as a warehouse, cost \$25,000, the front to be of pressed brick; architect, W. J. Carmichael; mason, P. Lyall & Sons; carpenter, Jas. Sheater & Co.—Saxe & Archibald, architects, Imperial building, have awarded the stonework contract of a residence on Western ave. for Mr. Stroud to Heggie & Stewart; other trades to be let this week. They have also awarded contract for a residence in Longueuil for K. Elliott to A. Mabe.

TORONTO, ONT.—The tender of W. F. Grant to pave track allowance on King street, from Sherbourne to Simcoe, at city engineer's figures, viz., \$5.70 per lineal foot, has been accepted.—The contract for fire sprinkling system for new city hall has been let to H. S. Vogel Co., of Montreal, at \$19,105. The tender of the Hamilton Bridge Co. has been accepted for the following work: Humber bridge superstructure, \$6,500; Queen street bridge superstructure, \$20,000; new bridge at Eastern ave., on plans approved by the engineer, \$4,400.—The Board of Control last week awarded contracts as follows: Asphalt pavements—lane, first south of Front street, Scott to east terminus, Constructing & Paving Company, \$2,835; Carlton street, Sherbourne to Parliament, Warren-Scharff Company, \$13,378; Front

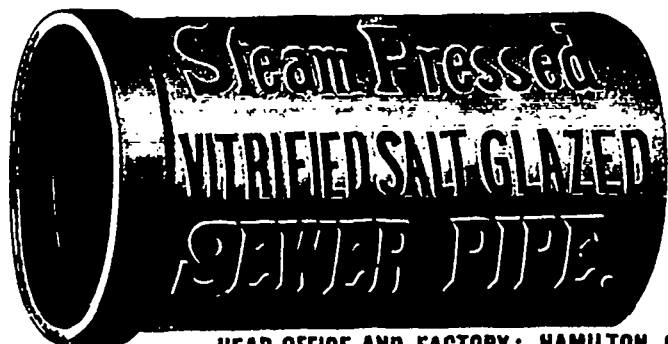
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street, York to Bay, Constructing & Paving Company, \$12,050. Macadam roadways—Front street, Sherbourne to Trinity, Constructing & Paving Company, \$4,577; Front street, George to Sherbourne, J. H. McKnight, \$1,000; Elm street, Yonge to University, city engineer, \$2,636; Gerrard street, Yonge to Jarvis, J. H. McKnight, \$3,150. Brick pavements—Garden ave., Roncesvalles to Sorcauren, James McBean, \$6,483. Scoria block—King street track allowance, Sherbourne to St. acoe, city engineer, \$5.70 per lineal foot. Cedar block pavement—Russell street, St. George to Spadina ave., Dominion Paving & Contracting Company, \$1,515. Concrete sidewalks—St. George street, east side, College to Hoskin ave., Gardner & Company, 65 cents per lineal foot; Huron street, Bloor to Prince Arthur ave., city engineer, 90 cents per lineal foot. Sewers—Queen street east, Knox street to 500 feet east, J. H. McKnight, \$673

BIDS.

OTTAWA, ONT.—In connection with the new pumping apparatus, the city engineer has recommended the acceptance of the tender of the Jenckes Machine Co., of Sherbrooke, for water wheels, and that of the Kerr Engine Co., of Walkerville, for pumping machinery. In the CONTRACT RECORD last week the tender of the Kerr Engine Co. for pumping machinery of 8,000,000 gallons capacity was given as \$32,905. This should have read \$22,905.

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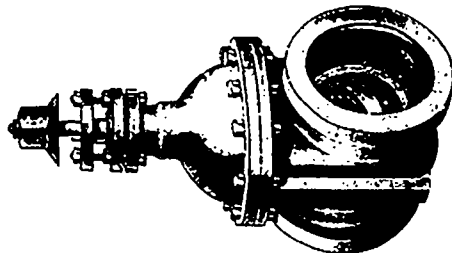
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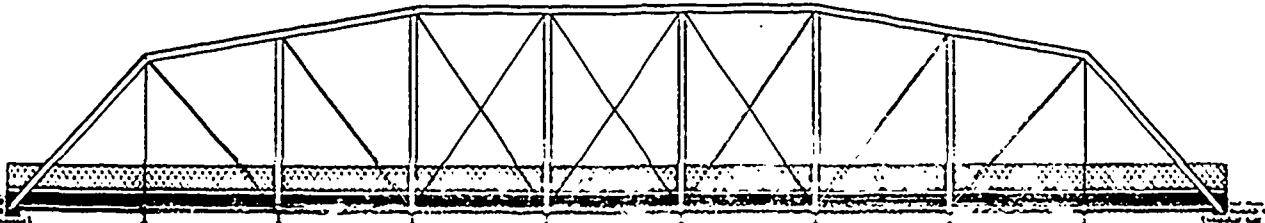
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STEEL ROOFS and Every Description of STEEL LATTICE and GIRDER WORK
Beams, Channels, Angles and Tees always in stock. Estimates Furnished on Application.

MUNICIPAL DEPARTMENT

PORTLAND CEMENT.

(Continued from last issue.)

In choosing cement for construction preference is given to that factory whose cement, all other qualities being equal, gives the greatest resistance to rupture after seven days tested pure. Pure cement after seven days must, when tested by rupture, bear a strain of not less than 21 to 25 kilograms on the square centimetre.

In preparing samples out of pure cement, water in proportion of one-third of the weight of cement is added, i.e., when the process by absorption is used. Samples intended for testing must remain exposed to the open air during the first twenty-four hours after they are made, and then be kept in water till the moment of being tested. At each stage (seven and twenty-eight days) of the experiment, ten briquettes must be broken when testing cement of an unknown firm or brand for the first time; for cement of a known brand at least five briquettes are necessary. When the normality of a cement is determined in a laboratory, then simultaneously with the test after twenty-eight days, a test of the mortar after seven days must also be made and the ratio of the two determined. It is necessary to know this ratio when making quick control tests. Mortar consisting of one part cement and three parts of normal sand must have a tensile strength after twenty-eight days of 8 kilograms on the square centimetre, or, after seven days, of not less than 5 kilograms to the square centimetre.

7. All the tests enumerated in the preceding rules determine the normality of a given brand. For cement of a known brand, in order to save time (especially when tests are necessary at the location

of constructions), control tests are allowed to determine (a) the time of setting; (b) the property of briquettes made from pure cement to remain free from cracks and warping during seven days; (c) the fineness of the grain; (d) the resistance to rupture after seven days of pure cements and mixtures with sand. The resistance of a mortar composed of 1 part of cement to three parts of normal sand, seven days after being mixed, must in no case be less than 6 kilograms per square centimetre. Should the cement respond to all requirements from a to d, excepting d, then the tests may be adjourned for twenty eight days, when the cement must undergo all the tests provided for in rule 6.

LEGAL DECISIONS AFFECTING MUNICIPALITIES.

MILLIGAN v. CORPORATION OF TOWN OF SARNIA.— Judgment in action tried at Sarnia, brought by owners of land on Wellington St., Sarnia, for damages caused by the flooding of the cellars in their houses owing to non-repair of the street sewer, and for a mandamus to compel repair and for declaration as to plaintiffs' rights. Held, that the defendants had power to do the work of laying tile sewer in substitution for the present box drain by way of local improvement, and to do so by day work instead of contract. Held, also, that an injunction should not be granted, there being no reason to suppose that the work would be delayed; on the contrary, the only delay so far being occasioned by the plaintiffs themselves. Held, also, that damages (in the absence of evidence, only nominal) had been sustained by eight of the plaintiffs owing to the defective condition of the box drain, which it was defendants' duty to repair or to notify the plaintiffs that their license to use it was terminated so as to enable them to shut off connection with their cellars.

Wilshire (plaintiff in the Superior Court), appellant, and the Town of St. Louis, defendant, and the Montreal Water & Power Company (intervening, and defendant in warranty in Superior Court), respondent. The appeal was from a

judgment of the Court of Review, which reversed a judgment of the Superior Court. The appellant is a florist, maintaining conservatories in St. Louis, and his action was brought against the corporation to recover \$4,225 damages which he alleged he had suffered by the almost total ruin of his plants and flowers, owing to the failure of the water supply. He alleged that in 1891 the corporation of St. Louis du Mile End entered into a contract with a company for a supply of water to the village, and granted the company the exclusive right of maintaining and operating a water system for twenty-five years. The appellant alleged that, relying upon the representation of the corporation that a sufficient supply of water would be furnished to him, he extended his greenhouses, but owing to the deficient supply of water, he had suffered heavy loss. The Montreal Water & Power Company intervened and took up the defence of the case, alleging that no lien de droit existed between appellant and the corporation of St. Louis, and that if appellant had any right of action it was against the company, not against the village of St. Louis. The first court maintained the action and assessed the damages at \$2,500. The Court of Review reversed this judgment and dismissed the action on the ground that there was no lien de droit between plaintiff and the corporation of the village under the circumstances. This judgment was maintained by the Court of Appeal.

The city council of Victoria, B.C. has chosen Mr. C. H. Topp, of Victoria, B.C., as city engineer.

Mr. J. W. Shackleton has been appointed city engineer of Chatham, Ont., as successor to Mr. C. H. Topp.

T. A. S. Hay, C. E., has been appointed Town Engineer and Public Works Superintendent for the town of Peterboro, at a salary of \$1,200 a year.

Mr. P. W. St George, City Surveyor of Montreal, recently resigned in consequence of too much interference by aldermen in the work of his department.

ARTIFICIAL STONE PAVEMENTS

SIDEWALKS A SPECIALTY

CORPORATIONS Will do well to consider our work and prices before letting contracts

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



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HIGHEST CLASS PORTLAND CEMENT

McGILL UNIVERSITY TESTS, 1898:

Fineness:—residue on 100 sieve, 4.45%.
Tensile strength: neat: 7 days, 629 lb.
" " " 28 " 773 lb.

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THE BEST LONDON PORTLAND CEMENT

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

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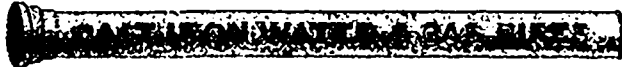
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Special Castings and all kinds of
Waterworks Supplies.



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3 inches to 60 inches diameter.

For Water, Gas, Culvert and Sewer

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TORONTO PRESSED BRICK AND TERRA COTTA WORKS

	F.O.B. Milton, Ont.	F.O.B. Montreal.
Red No. 1	\$12 50	\$18 00
" 2	11 00	16 10
" 3	5 00	3 10
Buff No. 1	14 50	20 00
" 2	13 50	8 50
Brown	20 00	25 50
Roman Red	21 00	30 50
" Buff	18 00	33 50
" Brown	35 00	40 50
Hard Building	6 00	11 50
" Sewers	6 00	11 50
Roofing Tiles, \$20 00 per 1,000, \$25 00 Montreal.		

DON VALLEY PRESSED BRICK WORKS.

	F.O.B. Don Valley.	F.O.B. Montreal.
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Red B	16 00	20 00
Red C	13 00	17 00
Trejan and Co Italian	21 00	5 00
Pompeian	22 00	29 00
Athenian and Egyptian	25 00	31 00
Tyrian	5 00	41 00
Sicilian	40 00	45 00
Roman	35 00	40 00
Carthaginian	40 45	45 00
Ornamental	50 00 100 00	50 00 10 00
Common insides	6 00	
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Vitrified pavers, 1st	16 00	22 00
" 2nds	11 00	15 00

COMMON BRICK, Per M.

	F.O.B. Toronto.	F.O.B. Montreal.
Common Walling	7 00 8 00	7 50 8 00
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Common Rubble, per ton, delivered	10 00	11 00
Large flat Rubble, per ton, delivered	14 00	18 00
Foundation Blocks, per c. ft.	30	50
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Amherst Red Sandstone, Amherst, N.S., per cub. ft.	1 10	75
Kent Free stone Quarriet, Moncton, N.B., per cu. ft.	1 00	95
River John, N. S., brown Freestone, per cu. ft.	95	95
"Scoria" Paving Blocks, 8" x 3 1/2" x 5"	55	

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54 00	
30 00	
40	1 00
40	
50 00	
70	

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Rubble, per car of 15 tons... 1st sup. yard.	1 1/2 1 75
Brown Dimension, per cub. ft.	60
Grey Coursing, per sup. yard	1 00
Grey Dimension, per cub. ft.	45

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Rubble, per 30 M. car	50 00
Ashlar, per cub. yd.	20 00
Dimension, per cub. ft.	18

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	Toronto.	Montreal.
Raft, 2 (1/2 square).		
" red.	17 50	20 00
" purple	8 50	10 00
" untanding green	8 50	7 00 8 00
" black	7 50	6 50
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Portland Cement -			
German, per bl.	2 90	3 10	2 55 2 65
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" Joseph's Bra Portland	3 05	3 25	2 70 2 80
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English, artificial, per bbl.	2 85	3 00	2 35 2 45
Belgian, natural, per bbl.	2 50	2 75	2 00 2 20
Canadian, artificial,	2 85	3 00	2 60 2 70
Roman			2 0 2 25
Parian	5 25	5 25	5 75 5 75
Superfine	1 25	7 50	8 45 9 00
" Karlstadt" (German)	3 05	3 25	2 75 2 90
" Germania" (German)	3 25	3 25	2 75 2 90
" Rooster" (Belgian)	2 15	2 20	2 15 2 20
" Key-stone" (Belgian)	2 15	2 20	2 15 2 20
" Anvil" (Belgian)	1 95	2 05	
" Burham" (English)	2 95	3 00	2 25 2 45
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Thorold, per bbl.	1 50		1 65
Queenston,	1 50	1 50	1 60
Napanee,	1 50		1 50
Hull,	1 50		1 50
Ontario,	1 25		

Toronto. Montreal.

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" Scotch	30 00	35 00	19 00	21 00
Lime, 100 lb., Grey			25	
" White			30	
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" N. S.			2 00	
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The following are the quotations to builders for material at Toronto and Montreal:

Cut nails, 50d & 60d, per keg	1 80
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CUT NAILS, FENCE AND CUT SPIKES.

40d, hot cut, per 100 lbs	1 85
10 to 12d, hot cut	1 95
8d, 9d, " "	2 00
6d, 7d, " "	2 15
4d to 5d, " "	2 25
3d, " "	2 85
2d, " "	2 85

Cut spike, 10 cents per keg advance.
Steel Nails, 1c. per keg extra.
Wire nails, 25c base price.

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Iron pipe, 1/2 inch, per foot.	6c.
" " 3/4 " " "	7
" " 1 " " "	8 1/2
" " 1 1/4 " " "	12
" " 1 1/2 " " "	17
" " 2 " " "	24
" " 2 1/2 " " "	30
" " 3 " " "	43

Toronto, 65 per cent. discount.
Montreal, 70 per cent. discount.

Lead Pipe:

Lead pipe, per lb.	7c.
Waste pipe, per lb.	7 1/2 c.

Galvanized Iron:

Adam's-Mar's Best and Queen's Head and Opello:	
16 to 24 gauge, per lb.	4 1/2 c.
26 gauge, " "	4 1/2 c.
28 " " "	5
30 " " "	5 1/2
Gordon Crown—	
16 to 24 gauge, per lb.	4 1/2 c.
26 gauge, " "	4 1/2 c.
28 " " "	4 1/2 c.
30 " " "	5

Note.—Cheaper grades about 1/2 c. per lb. less.

Structural Iron:

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