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# CANADIAN CONTRACT RECORD

A WEEKLY JOURNAL OF PUBLIC WORKS, TENDERS, ADVANCE INFORMATION AND MUNICIPAL PROGRESS

EVERY WEDNESDAY

*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. 11. FEBRUARY 21, 1900 No. 4

**THE CANADIAN CONTRACT RECORD,**  
PUBLISHED EVERY WEDNESDAY

As an Intermediate Edition of the "Canadian Architect and Builder."

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

Subscribers who may change their address should give prompt notice of same. In doing so, give both old and new address. Notify the publishers of any irregularity in delivery of paper.

**A GREAT BARGAIN**  
FOR WATERWORKS CONTRACTORS

The undersigned have a quantity of First-Class new Hydrants and Valves for Waterworks to dispose of at specially low prices. Correspondence solicited.

**MECHANICS SUPPLY CO.**  
96 St. Peter Street,  
Quebec, Que.

**TENDERS**

Separate tenders will be received until WEDNESDAY, 28TH INST., on Mason Work, Carpenter Work, Painting, Roofing, Sheet Metal, and Concrete Floor for a Laundry Building in rear of 260 Brunswick Ave.

No tender necessarily accepted.  
Plans, &c., at office of  
**HENRY SIMPSON, Architect,**  
9½ Adelaide Street East, Toronto.

**London Water-Works**

**TENDERS FOR LEAD PIPE**

Scaled tenders will be received at Moore & Henry's office, Albion Building, up to 4 p.m., MONDAY, MARCH 5TH, for furnishing and delivering 25 tons half-inch Lead Pipe, 6 lbs. per yard; 5 tons three-quarter inch Lead Pipe, 10 lbs. per yard; to be delivered in car lots as may be directed; first car May 1st. Lowest or any tender not necessarily accepted.

**WM. JONES,** Chairman.  
**JOHN M. MOORE,** Eng. and Supt.

**Tenders Wanted**

Tenders will be received by the undersigned up to noon of SATURDAY, MARCH 3RD, 1900, for the erection of a

**Steel Highway Bridge and Stone Abutments**

for the same in the Township of East Zorra. Abutments to be faced with quarry stone, about 13 feet in height, and of sufficient width to carry a bridge 14 feet wide. Length of bridge to be 60 feet. Tenders to be accompanied by plans and short specification of either abutments or bridge. Abutments to be completed on or before August 1st, 1900, and bridge two weeks later. The lowest or any other offer not necessarily accepted. Tenders will be opened and contract awarded, if satisfactory, on the above date, at the Royal Hotel, Woodstock, at 2 p.m. Mark envelope "Tender for Bridge," and address,

**JAMES ANDERSON,**  
Clerk East Zorra, South Zorra P.O., Ont.

**Cement Walks**

Tenders for the construction of Cement Walks will be received at this office up to 5 o'clock on

**THURSDAY, 1ST MARCH.**

Specifications and form of tenders on application to  
**A. O. GRAYDON,**  
City Engineer,  
London, Ont.

**TENDERS WANTED**

Whole tenders for the erection and completion of the House of Refuge of the County of Essex will be received up to and including SATURDAY, MARCH 17TH, 1900, by Mr. Geo. F. Cronk, Chairman of the Building Committee at Leamington. Plans and specifications may be seen at the office of A. G. Baker, Leamington, Ont., and at the office of H. J. Powell, Stratford, Ont.

Separate tenders for both Steam and Hot Water will be required.

The lowest or any tender not necessarily accepted.

A marked cheque for 2½% of the amount of the contract must accompany each tender, such cheque will be returned to the unsuccessful tenderers.

Successful tenderer will be required to give good and sufficient bonds for the due performance of the work.

**H. J. POWELL, Architect.**

**CONTRACTS OPEN.**

**PHOENIX, B. C.**—P. Benson will erect an hotel here.

**SUSSEX, N. B.**—Miller Bros. intend erecting a new building.

**WRIGHTVILLE, QUE.**—A new school house will be built here.

**DURHAM, ONT.**—The Presbyterian church is to be enlarged.

**SOLMESVILLE, ONT.**—Henry Black intends building a residence.

**NORTH BAY, ONT.**—Purvis Bros. will erect a large hardware store.

**PORT COLBORNE, ONT.**—Keeley Bros. purpose building a residence.

**EAST BRANCH, ONT.**—Chas. Wooliver is preparing to build a residence.

**DAUPHIN, MAN.**—Several business blocks and residences are projected.

**WATFORD, ONT.**—John Mathews has purchased property on which to build.

**CHATHAM, N. B.**—The Chatham Electric Light Co. is seeking incorporation.

**TIVERTON, ONT.**—Tenders have been taken for erection of Presbyterian church.


**GRAND FORKS, B. C.**—A combined fire and city hall will be commenced shortly.

**MIDLAND, ONT.**—Wilson & Humphrey are preparing to build new livery stables.

**EVERTON, ONT.**—The Methodists have purchased a site on which to erect a new church.

**ST. JOHN, N. B.**—A fire engine and ladder truck will be purchased by the council.

**SHELburne, ONT.**—Wright & McKinley, of Seaforth, are negotiating for the



SEALED TENDERS addressed to the undersigned, and endorsed "Tender for Heating Apparatus, Court House, Medicine Hat, Assa. West," will be received at this office until WEDNESDAY, 28TH INST., for the supplying and placing in position of a Heating Apparatus for the Court House at Medicine Hat, Assa. West., according to plans and specifications to be seen at the Department of Public Works, Ottawa, at the office of the Clerk of Works at the Court House, Medicine Hat, Assa. West., and at the office of Mr. D. Smith, Clerk of Works, Winnipeg.

Tenders will not be considered unless made on the forms supplied and signed with the actual signatures of tenderers.


An accepted bank cheque, payable to the Minister of Public Works, equal to ten per cent (10 p.c.) of the amount of the tender, must accompany each tender. The cheque will be forfeited if the party decline the contract or fail to complete the work contracted for, and will be returned in case of non-acceptance of tender.

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

By order,  
**J. R. ROY,**  
Acting Secretary.

Department of Public Works,  
Ottawa, 3rd February, 1900.

Newspapers inserting this advertisement without authority from the Department will not be paid for it.



SEALED TENDERS addressed to the undersigned, and endorsed "Tender for Heating Apparatus, Drill Hall, Kingston, Ont.," will be received at this office until WEDNESDAY, 21ST FEBRUARY, 1900, for the supplying and placing in position of a heating apparatus for the Drill Hall at Kingston, Ont., according to plans and specification to be seen at the Department of Public Works, Ottawa, and at the office of the Clerk of Works at the Drill Hall, Kingston.

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

An accepted bank cheque, payable to the order of the Minister of Public Works, equal to ten per cent (10 p.c.) of the amount of the tender, must accompany each tender. The cheque will be forfeited if the party decline the contract or fail to complete the work contracted for, and will be returned in case of non-acceptance of tender.

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

By order,  
**JOS. R. ROY,**  
Acting Secretary.

Department of Public Works,  
Ottawa, February 6th, 1900.

Newspapers inserting this advertisement without authority from the Department will not be paid for it.

purchase of the electric light plant here, and, if successful, will increase its capacity.

**TADOUSSAC, QUE.**—A waterworks system for this place will shortly be constructed.

**PERTH, ONT.**—A warehouse will be built this spring on Herriot street by T. A. Code.

**LITTLE CURRENT, ONT.**—Wm. McMinn will build a large addition to the Queen's hotel.

**UXBRIDGE, ONT.**—Mr. Small has made a proposition to the council to extend his piano factory.

**SOUTH WOODSLEE, ONT.**—A movement is on foot to erect a new school building here.

**GALT, ONT.**—The question of a sewerage system may be taken up by council at an early date.

**MOOSE JAW, N. W. T.**—The raising of \$75,000 to be spent in local improvements is under consideration.

**DUTTON, ONT.**—The Baptist church will be remodelled, at cost of \$2,000; Rev. R. Scott, pastor.

**BERLIN, ONT.**—Mr. Knechtel, architect, has been instructed to prepare plans for alterations to gaol.

**KILLARNEY, MAN.**—H. R. Irvin wants tenders by March 1st for erection of Methodist church, 56 x 60 feet.

**FORT ERIE, ONT.**—The question of constructing a waterworks system may be considered at an early date.

**FORT WILLIAM, ONT.**—The C.P.R. intend building an elevator at this place, although perhaps not until next year.

**COATICOOK, QUE.**—The Cascade Co. have been granted exemption from taxation conditional upon erecting new buildings.

**MARTINTOWN, ONT.**—A. J. Urquhart wants bids by March 1st for building frame school house in S. S. No. 15, Cornwall township.

**SMITH'S FALLS, ONT.**—It is reported that M. Healy will erect a first-class hotel and opera house, corner Beckwith and Russell streets.

**PARRY SOUND, ONT.**—Plans will be prepared at once by Henry Simpson, architect, of Toronto, for new Presbyterian church in this town.

**ST. CATHARINES, ONT.**—Quinn Bros. invite tenders up to 21st inst. for three-story brick addition to Russel House; W. B. Allan, architect.

**EDMONTON, N. W. T.**—Legislation will be sought to permit the corporation to borrow money to construct waterworks and sewerage systems.

**THAMESVILLE, ONT.**—Rev. J. McInnis, this place, will receive tenders up to March 5th for erection of Presbyterian church at Turin. Plans at the manse.

**OWEN SOUND, ONT.**—A deputation from this place have requested the Minister of Public Works to extend the piling on the west side of the harbor.

**WINDSOR, ONT.**—Tenders are invited up to 27th inst. for new galvanized iron roof for electric light station. Address R. Thorn, chairman Light Committee.

**WIARTON, ONT.**—The Provincial Board of Health have approved of the waterworks plans, subject to the condition that the pipe be relaid and increased in size.

**HULL, QUE.**—Two of the public schools will be enlarged next summer.—The city council have decided to proceed with the repairs to Gauneau bridge, cost \$2,000.

**ST. BONIFACE, MAN.**—Councillor H. Lavoie will introduce a by-law in council to provide for the construction of a traffic bridge across the Red river between Winnipeg and St. Boniface.—J. H. Hargraves has been appointed town engineer.

**BUCKINGHAM, QUE.**—Mr. Lapierre will probably erect a large residence this spring.—J. P. Lahaie, mayor, will receive offers up to March 1st for purchase of \$7,500 debentures.

**BATHURST, N. B.**—The Bathurst Power Co. is seeking incorporation, to build dams and install electric and steam plants on the Nepisquit and Telegouche rivers.

**FERNIE, B. C.**—The Crow's Nest Pass Electric Light & Power Co. is seeking incorporation, to develop water powers and supply electric light and power in this vicinity.

**KINGSTON, ONT.**—The plans of Henry Smith, architect, have been accepted for enlargement of Rev. Father Spratt's church on Wolfe island; estimated cost, \$10,000.

**WELLAND, ONT.**—It is possible that the plans submitted for new school building will be modified so as to bring the cost as near as possible to the appropriation granted.

**WOODSTOCK, ONT.**—At meeting of Board of Works held last week the paving of Dundas street was discussed. The feeling was in favor of macadam pavement at cost of \$7,000.

**HESPELER, ONT.**—The question of renewing the electric lighting contract has been taken up by the village council. It has been suggested that an incandescent plant should be put in.

**MOLESWORTH, ONT.**—S. E. Smith, road commissioner, invites bids up to 28th inst. for construction of truss bridge, of cedar, to replace Edwardsville bridge. Plans at Standard office, Listowel.

**INGERSOLL, ONT.**—A deputation has requested the Dominion Government authorities to place a large clock in tower of new post office.—A. J. Clark & Son will build a warehouse on King street.

**NEW WESTMINSTER, B. C.**—Capitalists from Toronto and Ottawa will establish a patent fuel industry here, under the name of the Canadian and British Columbia Patent Fuel Co.; capital \$100,000.

**STRATHCONA, N. W. T.**—Architects are invited to submit plans for a brick school, six rooms and basement, hot air furnaces, seating capacity for 350. Address A. C. Rutherford, this place.

**PORT HAWKESBURY, C. B.**—The Canso & Louisburg Railway Co. invite offers for furnishing all or part of 200,000 sleepers and 3,300 telegraph poles, to be delivered before July 1st, along the south coast of Cape Breton.

**LISTOWEL, ONT.**—Tenders are asked by W. E. Binning, architect, up to March 5th, for erection of Methodist church at Moorefield.—Voting on the by-law to grant a bonus of \$10,000 to the Listowel Furniture Co. will take place on March 12th.

**ARNPRIOR, ONT.**—At last council meeting a committee was appointed to secure information regarding cost of constructing a waterworks system.—The Episcopalians of Galetta have been presented with a site on which to erect a church.

**BRANTFORD, ONT.**—It is understood that the corporation will purchase a new road roller.—Negotiations are in progress to secure the establishment here of a manufactory of electrical apparatus, the headquarters of the company being in the United States.

**ST. MARYS, ONT.**—A special committee appointed to visit other municipalities have recommended that the corporation control its own lighting by purchasing the present plant, building an addition to the power house, and installing new machinery.

**STRATFORD, ONT.**—E. H. Eidt, chairman Board of Works, will receive tenders up to Saturday, 24th inst., for construction

of 25 foot span bridge, with trestle abutments, on road between city and township of North Easthope. Plans at office of city engineer.

**LEAMINGTON, ONT.**—Kennedy Bros. will rebuild their evaporating factory this spring.—It is likely that a four-room addition to the public school will be built.—An architect was here last week in connection with preparation of plans for proposed House of Refuge.

**PETROLIA, ONT.**—Debentures will be issued for the purpose of building granolithic walks.—The county council have voted \$1,600 to replace the Postil bridge, on the Moore and Enniskillen town line, with a steel bridge 90 feet long, with cedar abutments; J. G. Jones, engineer.

**VICTORIA, B. C.**—P. C. Macgregor intends to erect a two story brick and stone building, corner Broad and View streets. Plans for this building have been prepared by A. C. Ewart.—The board of school trustees have asked the council to submit a by-law to the ratepayers to raise \$80,000 for building new schools.

**RAT PORTAGE, ONT.**—The town clerk has been authorized to invite bids up to March 22nd for purchase of \$89,000 of debentures.—The owners of the Gold Panner Mining Co. purpose developing a water power and operating their plant by electricity.—J. K. Brydon will build a brick block adjoining the Citizens' Electric Co.'s building.

**COLLINGWOOD, ONT.**—F. T. Hodgson, architect, is preparing plans and specifications for a large hotel to be built in town. The building is to be of brick, three storeys and basement, and is to be fitted throughout with all modern hotel appliances, including steam heating, laundry, electric appliances, etc. The building will be situated on the main street, near the central part of the town.

**SYDNEY, C. B.**—A. J. Moxham, manager of the Dominion Iron and Steel Co., intends building a new residence near Colby, to cost about \$30,000.—The Dominion Iron & Steel Co. will put in a system of sewerage at Ashby. The plans are in the hands of Waring, Chapman & Farquhar, of New York. It is understood the company intend building a large number of houses at Ashby this season.

**CHARLOTTETOWN, P. E. I.**—It is reported that the Dominion Government will be asked to vote \$400,000 towards building a bridge over the Hillsboro river, near this place.—C. B. Chappell, architect, has prepared plans and is taking tenders for the following: Residences for Messrs. Geo. Stanley and Geo. Robinson, this place; condensed milk factory for J. B. Ratcliffe, to be erected in the State of Pennsylvania, U. S. A.; stone building, of brick and stone, 43 x 100 feet, three storeys, for Prowse Bros., Sydney, C. B.

**HALIFAX, N. S.**—An effort is being made to form a syndicate to establish iron and steel works at North Sydney, C. B. John F. Stairs, of this city, and Graham Fraser, of the Nova Scotia Steel Co., New Glasgow, are interested.—The electric light committee of the council last week visited available sites for establishment of power house for municipal electric light plant.—Herbert E. Gates, architect, this city, has prepared plans for a large residence at Dartmouth, N. S., for Edwin J. H. Pauley. Same architect has plans on the boards for two school-houses, a church and a parochial hall.

**LINDSAY, ONT.**—W. A. White, architect, has prepared plans for proposed dwelling for Wm. Cornell, lot 13, con. 4, Ops.—Among the new buildings to be erected in this vicinity are the following: Addition to residence of Dr. Vrooman; Methodist church at Cartwright; brick veneered residences for James Billett, of Veralum; Chas. Millage, of Fenelon township; Wesley Sloane, of Mariposa; Edward Montgomery, of Cartwright town-

ship; Wm. Cornell, of Ops township; John Rodman, of Mariposa South; Thos. Christian, of Fenelon township; John Rutherford, Emily township.

WINNIPEG, MAN.—Alterations to the old Dufferin school, including a stone foundation, cost \$2,600, have been recommended.—The Suburban Park Railway Co. will ask for authority to extend their lines to a point within the city.—Local contractors have been notified that plans of the new C. P. R. hotel and station will shortly be ready to figure on.—The president of the Board of Trade, in his annual address, stated that 200 miles of telephone line would be constructed during the coming season, connecting Winnipeg with Portage la Prairie, Brandon, Neepawa, and other points.—E. F. Hutchings intends erecting a factory on Market street.

HAMILTON, ONT.—The Sewers Committee have decided to construct this year 72 sewers, aggregating 66,800 feet, as local improvements. Voting on the by-law to raise \$20,000 for waterworks improvements will take place on March 14th.—Building permits have been granted as follows: E. B. Patterson, three two-story brick dwellings, corner Hughson and Robert streets, for Robert Kirkpatrick, cost \$3,000, and alterations to Hamilton Electric Light & Power Company's offices, cost \$2,000; W. & W. Stewart, brick dwelling on Brant avenue, for A. Zimmerman, cost \$1,300.—The hotel to be built at Lake Rosseau by Hamilton capitalists will be four stories, with 250 bed rooms, electric lighting and extensive system of bath rooms; estimated cost, \$250,000. Samuel Barker and B. E. Charlton are directors.

LONDON, ONT.—The Finance Committee of the Public Library Board have decided to erect an addition to the building, to cost \$5,000.—The members of the Memorial church have decided to raise \$10,000 to make repairs and improvements, including new furnaces and roof for the school house, new ceiling in chancel, increased seating in church and school house and better lighting. Mr. Luscombe is church warden.—Deputations last week requested the Middlesex county council to erect a bridge over the Thames at the Giles site and another a short distance south of Glencoe. The Road Committee will consider the requests.—S. Gillies, 654 King street, is building a dwelling on King street.—John M. Moore will receive tenders up to March 5th for supply of 25 tons half inch and 5 tons three-quarter inch lead pipe.

VANCOUVER, B. C.—Wm. Braid will erect block of warehouses on Hastings street, 100 x 80 feet, two stories, brick and stone.—T. F. McQuigan, city clerk, invites tenders up to 28th inst. for supply of lead pipe, pig lead and brass cocks.—R. M. Fripp, F.R.I.B.A., has prepared plans for enlargement of St. James church, cost \$2,500.—S. Sherdahl will build a block, of pressed brick with stone trimmings, 66x32 feet, three stories, containing stores on ground floor, 52 rooms for hotel purposes on second floor, and offices for the Mainland Cigar Co. on third floor.—Tenders for erection of three-story brick building for J. B. Lovell are invited by W. T. Whiteway, architect, up to March 3rd.—Parr & Fee, architects, have taken tenders for building residence for R. A. Harwood.—R. M. Fripp, F.R.I.B.A., has prepared plans for a small church (English) at Abbotsford, B. C., a house on Alberni street, one on Howe and a third on Nelson, and boarding house on Powell street.

TORONTO, ONT.—F. H. Herbert, architect, wants tenders by 5 p. m. of 23rd inst. for all trades excepting carpenter work required in erection of pair of residences on Huron street.—J. Francis

Brown, architect, invites tenders for erection of residence on Crescent road.—Tenders are wanted for excavating, plumbing, heating, painting and plastering. Plans may be seen at 31 Leonard avenue.—Dr. Sheard will make a report to the local Board of Health regarding a site for permanent smallpox hospital.—The Board of Health will recommend the construction of a sewer on Columbus avenue.—At last meeting of East Toronto council figures were submitted of the cost of installing an electric light plant.—Plans of wharf to be built by the Dominion Government at Hawkestone are on view at the office of H. A. Gray, C. E., Confederation Life Building; tenders close March 8th.—The congregation of St. Paul's Anglican church, Bloor street east, are considering the question of enlarging the church.—The congregation of Knox Presbyterian church, at a meeting held last week, voted in favor of selling the present property and building a new church on another site.—Building permits have been granted as follows: T. J. Donald, two story stone and brick dwelling on Simpson ave., cost \$1,000; Wm. Hall, two story brick dwelling, n. side Marion street, near Roncesvalles ave., cost \$2,300.

MONTREAL, QUE.—Ald. Chevalier has asked the Roads Committee for improvements in St. James South, including the asphalt paving of Visitation street, between St. Catharine and Dorchester.—The chief of the department has recommended that no stations be built to replace No. 5 on St. Catharine street, No. 9 at Point St. Charles, and the central station on Craig street.—Ald. Turner has given notice of motion to grant from \$5,000 to \$10,000 for purchase of municipal asphalt plant.—Some of the aldermen favor a subway at Shearer street, which they estimate would cost \$6,000.—Maxwell & Shattuck, architects, are preparing the plans for the new C. P. R. Telegraph building; it will be 65 x 45 feet and about six stories high.—The Connors Syndicate are about to let the contract for piling for the elevator; 2,620 piles will be required, while the contract for the freight warehouse will be even more extensive. The plans for the elevator will be completed shortly, and then the contract for iron and steel will be let.—Alterations are to be made to the Board of Trade building, with a view to providing increased accommodation. The gallery overlooking Exchange Hall and the large warerooms situated on the first floor in the west wing will be turned into offices.

OTTAWA, ONT.—Chas. Macnab, clerk of Carlton county, invites tenders up to noon, March 14th, for construction of bridge over Carp river, on town line between Huntley and Fitzroy.—J. R. Roy, acting secretary Department of Public Works, invites tenders up to March 8th for construction of wharf at Hawkestone, Simcoe county. Plans on application to H. A. Gray, Confederation Life Building, Toronto, postmaster at Hawkestone, and at above department; cheque for \$300 to accompany tender.—The corporation desires tenders by March 14th for supply of hardware, castings, vitrified clay pipe, brick, sand, cement, etc.—Hose waggons will be purchased for Nos. 7 and 8 fire stations.—A company is seeking incorporation to construct a railway from Batchewana Bay, Lake Superior, to the C. P. R. crossing and to a point on James Bay, near the mouth of the Albany river.—The plans have been completed for an observatory on Parliament Hill, for which \$16,000 has been granted by parliament.—Application will be made to the provincial legislature for power to raise \$30,000 by debentures to change the route of the main sewer.—The Board of Works has recommended the purchase of another street scraper.—The city engineering department has completed plans for system of drainage for the Glebe. There will be

eight miles of sewer main, running from 3 feet 5 inches to 12 inches; estimated cost, \$60,000.—The Ottawa Electric Railway Co. will install a waterworks system at Britannia Bay. The company will also build an observatory building.

### FIRES.

Electric light plant at Huttonville, Ont., used for lighting the town of Brampton, four miles distant; insurance \$3,000; Ogilvie Bros.' mills at Wentworth, N. S., consisting of grist, saw and carding mills, operated by water power; residence and store of Sullivan & Son at Northesk, N. B., totally destroyed; chop mill of the Flaville Milling Co. at Lindsay, Ont.; cordovan tannery at Milton, Ont., damaged to extent of \$3,000; residence of C. H. Garrison on seventh con. of Sydney, near Belleville.

### CONTRACTS AWARDED.

WATERLOO, QUE.—Tower for St. Luke's church; Geo. Wallace, contractor, \$1,200.

PORT COLBORNE, ONT.—Residence for S. J. Hopkins; Augustine & Son, contractors.

DARTMOUTH, N. S.—Residence for E. J. H. Pauley; H. E. Gutes, architect; Misener & Merson, contractors.

OTTAWA, ONT.—800 tons of syenite stone for Ottawa Improvement Commission; T. S. Kirby, successful tenderer.

DUBLIN, ONT.—New R. C. Church: Davids & Ezerman, of Mitchell, successful tenderers at \$7,500, glass, stone, sand and brick to be furnished.

COLLINGWOOD.—The contract to build the wharf for the Collingwood Meat Co. has been awarded to Robert Burdett for a sum exceeding \$6,000. Work commences at once.

BERLIN, ONT.—Factory for Berlin Glue Co.: Stone and mason work, Casper Braun. Building will be 314 feet x 89 feet, stone foundation, two stories and basement, with boiler house 30 feet square.

DUNDAS, ONT.—Alterations to Methodist church; Chas. Mills, of Hamilton, architect; woodwork, J. H. Bowman & Co.; brickwork, H. Palmer; decorations, Evans, of Toronto; tin work, John E. Riddle, Hamilton; plumbing, James Stewart, Hamilton.

WINNIPEG, MAN.—The Manitoba Plumbing Company are putting two No. 8 star boilers in Stewart Tupper's residence, two No. 6 Star boilers in St. Mary's church, one No. 7 in Miller, Morse & Co.'s wholesale hardware store, and one No. 9 in a hospital in this city.

GEORGETOWN, ONT.—The township council received tenders as follows for construction of Glenwilliams bridge: Geo. C. Bulmer, E'mira, \$1,323; R. H. Hill, Toronto, \$1,759; Jos. E. Bate, Scotch Block, \$1,587; Smeaton & Patterson, Inglewood, \$1,259; Thos. Irving, Guelph, \$1,404; F. Near, Ballinafad, \$1,440; B. Bear & Sons, Glenwilliams, \$1,050 (accepted).

MIDLAND, ONT.—Nine tenders were received for addition to west ward school, as follows: Complete building—J. R. Eaton, \$5,627; Robt. Irwin, \$4,625; J. S. Davenport, \$4,115. Stone work, brickwork, plastering, excavating, etc.—Wesley Cline, \$1,972; Bath Bros., \$1,665; J. M. Wallace, \$1,815. Woodwork—Robt. Irwin, \$2,425. Painting—Jas. Kitchen, \$280; E. H. Nicholls, \$350. Bulk tender of James Davenport has been accepted.

TORONTO, ONT.—The tender of Gardner & Co. for concrete sidewalks has been accepted as follows: Huntley street 50 cents, Bedford road 62 cents, Major street 59 cents, King street west \$1.79, Spadina avenue 70 cents, Washington avenue 55 cents, Beverley street 60 cents, Russell street 70 cents. W. R. Payne got Queen st. west at \$2.44 per lineal foot.—Tenders for

500 toise of stone were accepted as follows: Joseph Williams, delivered at waterworks dock, \$8; E. & R. Golding, at city dock, \$7.90 per toise.

MONTREAL, QUE.—The Road Committee has accepted the following tenders for supplies: Oils—Auguste Couillard and Ramsay & Son; Spikes—Caverhill & Learmont; Brick—Charles Shepherd; Cement—Bellhouse, Dillon & Co., 63c per cwt., for Brooke and Shoebridge cement; Iron castings—Pascal Amesse and Garth & Co.; Curbstone—Isaie Desormeau; Flagstone and crossings—F. D. Lawrence; Lumber—T. Prefontaine & Co., white pine; J. & B. Grier and Shearer, Brown & Co., tamarac floats; J. T. Marchand, spruce; E. H. Lemay, yellow pine; Tamarac plank—J. T. Marchand & Co.; Creosote, cotton waste, oakum axle grease—James Wilson & Co.; Dualine detonators and fuses—Hamilton Powder Company; Rubber hand hose and lace leather—Frothingham & Workman; Coal tar, creosote and pitch.—The Paterson Manufacturing Co.

PLANS FOR BRIDGE IN AUSTRALIA.

The following additional particulars have been received regarding the proposed bridge to be built by the New South Wales government connecting the northern and southern shores of Sydney harbor: Two prizes are offered, one of £1,000 and another of £500, open to all the world, for the most suitable designs, to be received by August 1st, 1900. The designs must provide for two footways each 10 feet wide, two roadways each 20 feet wide or one roadway 40 feet wide, also for a width of 24 feet in the clear for a double line of railway. It is considered that the bridge should be a single tier bridge, but designs showing either the footways or the roadway, or both, overhead, may be submitted, and will receive consideration. The bridge must consist of a single span, and a clear headway of 180 feet above high water, for at least the middle 600 feet of its length, must be provided. The structure must be designed to carry a live load of 130 lb. per superficial foot of roadway and footpath, and every part of the roadway is to be capable of carrying a moving load of 30 tons on two pairs of wheels, and for a train on each line of railway consisting of three of the heaviest class of engine and tender in steam, followed by loaded trucks. The engines and tenders to be taken as weighing 110 tons, with a length of 55 feet; and an axle load on drivers of 18 tons, the distributed load due to the loaded trucks to be taken as 1½ tons per lineal foot.

Sanders and Powers, planing mill and contractors, are commencing business at St. Thomas, Ont.

Gagnor & Caron have been appointed curators of the estate of Clafond & Co., contractors, Montreal.

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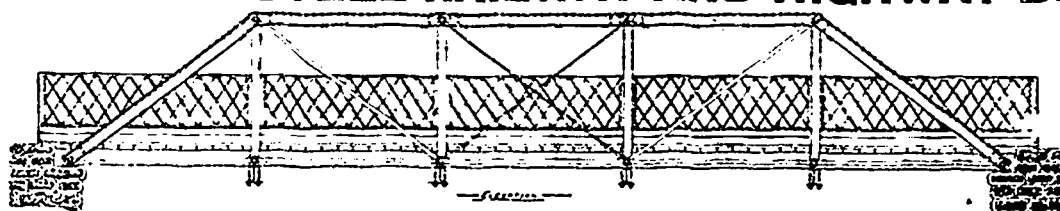
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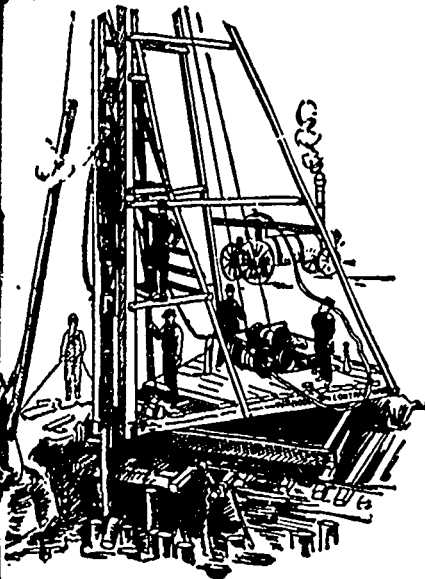


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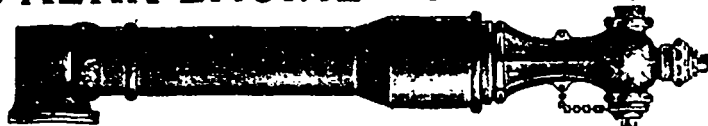
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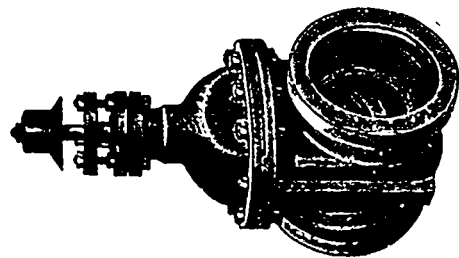
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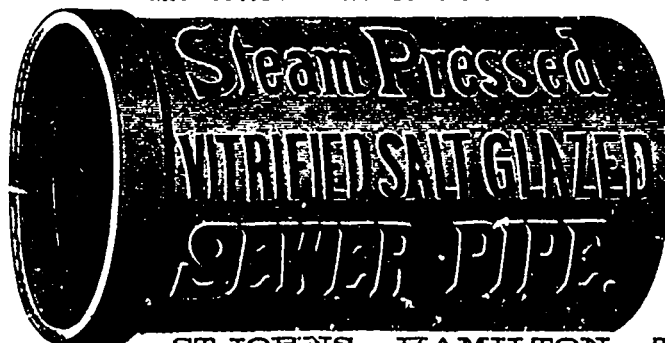
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# MUNICIPAL DEPARTMENT

## CREOSOTED WOOD BLOCK PAVEMENTS.\*

Before, and when, I became a member of the Board of Public Works a number of years ago we often had property owners say, "Why can't we have such wood pavements as we see in Paris, London and other European cities? They seem to be so much cleaner and quieter than asphalt or stone." They insisted that there was a fine dust, a glare, a noise and heat that were positive discomforts, which they could escape to a great extent if they could have a wood pavement, and if we could give them a durable wood pavement they wanted it, and many wanted the wood without conditions, and many petitions for it were presented.

A careful study of wood pavements in this country and Europe followed. There can be no doubt that the consensus of opinion in this country is that the wood block pavement as commonly known has not been a success. It seems strange that the glaring defects—one might almost say the kindergarten defects—of those pavements had not been noted and eliminated, but they were not, and millions of square yards of wooden block pavement have been laid and are yet being laid, the only foundation for which is plank laid on sand. The blocks were cut from round, green cedar posts, with the sapwood left on, and in some instances the bark. These blocks, without further preparation, were laid on boards, some gravel tamped into the joints and covered with coal tar. It would seem almost absurd to call such a structure a pavement. In saying this, I am not forgetting the Nicholson pavement, the principal defect of which was the lack of suitable wood. It seems to me that all the ingenuity and inventive genius of that time was exercised along the line of discovering some odd or novel way to cut and lay the blocks, or to bind and lock them together. As far as I have been able to discover, these things were of little avail. The cardinal defects were:

First. Failure to select wood with sufficient strength and toughness to withstand the loads and abrasion, and

Second. The total absence of any attempt to create conditions to prevent the rotting of the blocks.

Just why it was considered necessary to select white pine and cedar when the country abounded in the harder and stronger woods it would be difficult to conjecture, but the fact remains.

And why no adequate effort was made

\* Paper read before the American Society for Municipal Improvements by M. A. Downing, President Board of Public Works, of Indianapolis, Ind.

to properly season and treat the wood I leave to engineers to answer. It may have been because it was a new field and explorers are scarce. Certain it is that if any architect had attempted to build a house of such material treated in the same way he would have been severely criticized by his professional brethren, to say the least.

As a result of our studies of wood pavements, we decided to require the concrete foundation in every instance. We first laid Washington red cedar, rectangular blocks without treatment of any kind. This wood was very soft and porous. It was practically the Nicholson pavement. The blocks were laid close together on a 1 in. cushion of sand over the concrete. Two heavy traffic resident streets were laid in this way and they are now in their fifth year; both are considerably worn on account of the softness of the blocks, while

here and there rotted blocks are visible. Washington red cedar was still in the specifications when I became a member of the Board of Public Works. A provision was inserted providing for creosoting, but the specifications were indefinite. The following spring and summer, 1896, four streets were paved with creosoted (about three pounds of oil to the cubic foot of wood) Washington red cedar. These blocks were 4 in. wide and 5 in. with the grain of the wood. The blocks were laid in rows at an angle of 45° with the curb. All of these pavements are in excellent condition at this time, and on parts of them the traffic is heavy. No provision was made for expansion, the blocks were driven as close together as could be with a sledge and the joints filled as far as could be with paving pitch. We have had some trouble caused by the blocks bulging. Most of this was where the blocks were not creosoted; in a few cases blocks bulged on other streets, but nothing serious.

(To be Continued.)



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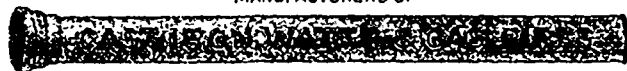
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Trojan and Corinthian.....	21.00	28.00	
Pompeian.....	22.00	29.00	
Athenian and Egyptian.....	25.00	31.00	
Tyrian.....	35.00	41.00	
Sicilian.....	40.00	45.00	
Roman.....	35.00	40.00	
Carthaginian.....	40.45	45.00	
Ornamental.....	50.00 100.00	30.00 100.00	
Common insides.....	6.00		
Hard sewers.....	7.50		
Vitrified pavers, 12 1/2.....	16.00	22.00	
" and.....	10.00	15.00	

### COMMON BRICK, Per M.

	F.O.B.	F.O.B.	
	Toronto.	Montreal.	
Common Walling.....	7.00 8.00	7.50 8.00	
Good Facing.....	8.00 9.00	8.50	
Sewer.....	8.00 9.00	8.50 0.00	

### STONE.

Common Rubble, per ton, delivered.....	10.00	11.00	
Large flat Rubble, per ton, delivered.....	14.00	18.00	
Foundation Blocks, per cu. ft.....	30	50	
Granite (Stanstead) Ashlar, 6 in. to 12 in., rise on, per ft. Amherst Red Sandstone, Amherst, N.S., per cu. ft. Kent Free stone Quarries, Moncton, N.B., per cu. ft. River John, N.S. brown Freestone, per cu. ft.....	1.00	75	1.00 95
Port Phillip, N.S. Brown Sandstone.....	95	95	

"Scoria" Paving Blocks, 8" x 3 1/2" x 5".....	55	
"Scoria" Paving Blocks, 8" x 3 1/2" x 4".....	45.00	
Masilion.....	30.00	
Quebec and Vermont rough granite for building purposes, per c.ft. f.o.b. quarry	40	1.00
For ornamental work, cu. ft.	40	
Granite paving blocks, 8 in. t. 12 in. x 6 in. x 3 1/2 in. per M.		50.00
Granite curbing stone, 6 in. x 20 in. per lineal foot.....		70

### CREDIT VALLEY STONE.

Rubble, per car of 12 tons.....		7.00
Brown Coursing, up to 10 in., per sup. yard.....	1.50 to 1.75	
Brown Dimension, per cub. ft.	60	
Grey Coursing, per sup. yard	1.00	
Grey Dimension, per cub. ft.	45	

### F.O.B. Quarries.

Rubble, per 30 M. car.....	5.00	
Ashlar, per cub. yd.....	2.00	
Dimension, per cub. ft.....	18	

### SLATE.

	Toronto.	Montreal.
Roofing (per square).		
" red.....	17.50	20.00
" purple.....	8.50	10.00
" unslating green.....	8.50	7.00 8.00
" black.....	7.50	6.50
Terra Cotta Tile, per sq.....	20.00	25.00
Ornamental Black Slate Roofing.....	8.80	6.80

### CEMENT, LIME, etc.

Portland Cements—			
German per bbl.....	2.90 3.10	2.55 2.65	
London.....	2.95 3.00	2.25 2.45	
Newcastle.....	2.70 3.00	1.95 2.10	
"Toscon" Brand Portland.....	3.95 3.25	2.70 2.80	
"Dyckerhoff.....	3.05 3.25	2.75 2.80	
North's "Condor.....	2.95 3.10	2.65 2.45	
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.....	2.90 2.25	2.30 2.25	
Brian.....	5.25 5.25	5.75 5.75	
Keene Superfine "Whites", 71 to 120.....	8.00 8.50	8.50 10.00	
Keene's Coarse "Whites".....	8.00 8.50	8.50 9.00	
"Karlstadt" (German).....	3.05 3.25	2.75 2.90	
"Germania" (German).....	3.05 3.25	2.75 2.90	
"Rooster" (Belgian).....	2.45 2.20	2.45 2.20	
"Keystone" (Belgian).....	2.95 2.20	2.95 2.20	
"Anvil" (Belgian).....	2.95 2.05	2.95 2.05	
"Butham" (English).....	2.95 3.00	2.25 2.45	
Hydraulic Cements—			
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.
Fire Bricks, Newcastle, per M	30.00 35.00 16.00 21.00	
" " Scotch.....	30.00 35.00 19.00 21.00	
Lime, 100 lbs., Grey.....	25	
" " White.....	30	
Plaster, Calcined, N. B.....	2.00	1.50
" " N. S.....	2.00	1.50
Hair, Plasterer's, per bag.....	80	1.00 0.00

### HARDWARE.

The following are the quotations to builders for nail at Toronto and Montreal:

Cut nails, 50d & 60d, per keg	2.65	2.65
Steel " " " "	2.75	2.75

CUT NAILS, FENCE AND CUT SPIKES.

40d, hot cut, per 100 lbs.....	2.65	2.65
10 to 12d, hot cut.....	2.75	2.75
8d, 9d, " ".....	2.80	2.80
6d, 7d, " ".....	2.95	2.95
4d to 5d, " ".....	3.05	3.05
3d, " ".....	3.30	3.30
2d, " ".....	3.65	3.65

Cut spikes, 10 cents per keg advance.  
Steel Nails, 10c. per keg extra.  
Wire nails, 3-40 base price.

### Iron Pipe:

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

### Lead Pipe:

Lead pipe, per lb.....	7c.	25 per cent. d.
Waste pipe, per lb.....	7 1/2c.	

### Galvanized Iron:

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

Note.—Cheaper grades about 1/4c. per lb. less.

### Structural Iron:

Steel Beams, per 100 lbs.....	2.75	
" channels, ".....	2.85	
" angles, ".....	2.50	
" toes, ".....	2.80	
" plates, ".....	2.55	
Sheared steel bridge plate.....		