

CANADIAN CONTRACT RECORD

A WEEKLY JOURNAL
OF PUBLIC WORKS AND TENDERS

ADVANCE INFORMATION
AND MUNICIPAL PROGRESS

EVERY WEDNESDAY

The 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 Hues throughout Canada.

Vol. 13.

MARCH 5, 1902

No. 5

THE CANADIAN CONTRACT RECORD, PUBLISHED EVERY WEDNESDAY

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London Water Works.

Sealed tenders will be received at the Water Works Office, London, Ont., up to 4 p.m., MONDAY, MARCH 17TH, for furnishing and erecting of

*Two Turbine Water Wheels,
Two Duplex Power Pumps,*

of a capacity of 3,500,000 gals., Imperial, in twenty-four hours, against a head of two hundred and forty feet.

Further information may be obtained at Moore & Henry's office, Albion Building, London, Ont.

Lowest or any tender not necessarily accepted.
WM. JONES, Chairman. JOHN M. MOORE, Engineer and Supt.

TENDERS

for 10,000 to 15,000
Barrels of

CEMENT

Sealed tenders, addressed to the Chairman of the Committee on Works, for the supply of from 10,000 to 15,000 barrels of cement, will be received at the office of the undersigned up to 8.30 p.m., on

Thursday, March 20th.

Specifications and forms of tender may be obtained at the office of H. N. Rutan, City Engineer, Winnipeg, Manitoba, Canada.

Each tender must be accompanied by an accepted cheque or cash deposit for the sum called for in the form of tender supplied, which will be subject to forfeiture in case of failure on the part of the contractor to enter into a written contract if called upon to do so. If an accepted cheque be submitted it must be payable at par in Winnipeg or be for an amount sufficient to cover exchange over the sum called for in the form of tender supplied.

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

C. J. BROWN,
City Clerk.
City Clerk's Office,
Winnipeg, Feb'y 25th, 1902.

Tenders Wanted

Tenders will be received for all trades up to noon, SATURDAY, MARCH 8TH, for alterations and additions to Haverhill Ladies' College, Toronto.

G. M. MILLER & CO., Architect.
Corner Yonge and Colborne streets, Toronto.



Notice to Contractors

St. Lawrence Market Improvements

Tenders, addressed to the undersigned, will be received by registered post only up to noon on Wednesday, March 19, 1902,

for the steel hangers, benches and shelves required for stalls in the new southern portion of St. Lawrence market.

Contents of envelopes containing tenders must be plainly marked on the outside. Specifications and drawings may be seen, and form of tender obtained at the office of the City Engineer.

The usual conditions pertaining to tendering as prescribed by City by-law, must be strictly observed or the tenders will not be entertained. The lowest or any tender not necessarily accepted.

OLIVER A. HOWLAND, (Mayor),
Chairman Board of Control.
City Hall, Toronto, March 3rd, 1902.



To Contractors, Etc.

Tenders for New Manufacturers' Building at Exhibition Grounds.

Separate tenders addressed to the undersigned will be received through registered post only up to noon on

FRIDAY, MARCH 7th,

for the following works required in the erection and completion of the new Manufacturers' building on the Toronto Exhibition grounds.

Masonry, carpenter work, lathing and plastering, "smith's" work, painting and glazing, roofing, structural steel and iron work and iron foundry work.

Plans and specifications can be seen and all information, together with form of tender, obtained at the office of Coquillock & Baker, architects, Temple Building, Bay street.

Tenders must be accompanied by a marked cheque, payable to the order of the City Treasurer, or a cash deposit equal to five per cent. on tenders up to \$1,000, and two and one-half per cent. on tenders over that amount.

Should any party whose tender is accepted fail to execute the necessary contracts and bonds, and give satisfactory security for the due fulfilment of the contract, the deposit accompanying the tender will be forfeited to the city.

The lowest or any tender not necessarily accepted. The deposits of unsuccessful tenderers will be returned.

O. A. HOWLAND (Mayor),
Chairman Board of Control.
City Hall, Toronto, February 25th, 1902.

TENDERS WANTED

Tenders will be received at the clerk's office, Seaford, until APRIL 2ND, NEXT, for the construction of certain drains within the Municipality Plans and Specifications to be seen at the clerk's office.

The lowest or any tender not necessarily accepted.

WM. R. LLIOTT,
Clerk.

Dated Feb. 22nd. 1902.

TENDERS

For the erection of an Addition to the Dental College Building, Toronto, will be received until SATURDAY, 8TH MARCH, 1902, addressed to the undersigned and endorsed "Tenders for Dental College."

Plans and specifications may be seen at the office of the Architect, David B. Dick, 17 Toronto Street, Toronto.

The lowest or any tender will not necessarily be accepted.

J. B. WILLMOTT,
Secretary R. C. D.S.,
96 College Street, Toronto.

CONTRACT OPEN.

SANDWICH, ONT.—Berry Bros. will erect a new factory this spring.

MERRICKVILLE, ONT.—Plans for a new town hall are under consideration.

AMHERST, N. S.—Rhodes, Curry & Co. will make extensive additions to their plant.

HUNTSVILLE, ONT.—R. McLaughlan intends building new brick hotel this summer.

DUNDAS, ONT.—John Maw has purchased sites on which to build two dwellings.

EGLINGTON, ONT.—Mayor Fisher purposes erecting a brick residence on Roehampton ave.

CHATHAM, ONT.—The Woodburn-Sarven Wheel Co. have fixed upon a site for their new factory.

ACTION, ONT.—The installation of a condenser in the power house, at cost of \$400, has been recommended.

STONE CREEK, ONT.—Steps are being taken to erect a new Methodist church. Particulars from J. G. Nash.

WINDSOR, ONT.—The Water Commissioners have decided to ask for tenders for new boiler for pumping station.

MACGREGOR, MAN.—The ratepayers will vote on a by-law on March 27th to raise \$5,000 for a new school building.

FORESTVILLE, ONT.—Arthur Jones wants tenders by 17th inst. for construction of bridge over Burnham creek.

WATERLOO, ONT.—Tenders close 8th inst. for erection of Mennonite church. Plans by Charles Mookg, architect.

CAMPBELLTON, N. B.—The Government will be petitioned to erect a modern post office and customs building in this town.

WEST HORNE, ONT.—P. J. Lindenman invites bids up to 13th inst. for erection of two storey brick block, 36 x 85 feet.

WALKERVILLE, ONT.—The Walkerville Match Co. have decided to rebuild their factory on the old foundation.

GUELPH, ONT.—A by-law will be submitted to the ratepayers on March 27th to provide funds for construction of a sewerage system.

HALIFAX, N.S.—The congregation of Charles street church have decided to build a new brick church and Sunday school building.

AILSA CRAIG, ONT.—The council purpose laying granolithic sidewalks this year, and will likely purchase a portable concrete mixer.

CORNWALL, ONT.—An engineer will be appointed to prepare plans for steam and electric power for waterworks purposes.

WOODSTOCK, N. B.—The Dominion Government is asking for tenders up to 15th inst. for erection of armoury at this place.

ARNPRIOR, ONT.—J. F. Brown, architect, Toronto, has prepared plans for a Baptist church at this place, seating capacity 400, cost \$5,000.

NIAGARA FALLS SOUTH, ONT.—The Lunby's Lane Electric Light, Gas & Water Co. have asked the village for a franchise for a waterworks system.

NEWMARKET, ONT.—Tenders are invited for erection of brick residence for L. G. Jackson.—U. Marsh will build a residence this summer.

IROQUOIS, ONT.—Allan McInnis, municipal clerk, invites bids up to April 1st for the purchase of \$12,000 debentures issued for the purpose of constructing an electric light plant.

SYDNEY MINES, N.S.—The Nova Scotia Steel & Coal Co. have submitted to the council a proposition for the establishment of blast furnaces and waterworks and electric light systems.

BROCKVILLE, ONT.—The council of united counties of Leeds and Grenville have passed a by-law providing for the raising of \$150,000 by the issue of debentures for road improvements.

TORONTO JUNCTION, ONT.—The council has instructed the chief electrician to prepare specifications of what is needed to install a complete plant for lighting and power purposes.

SHERBROOKE, QUE.—It is expected that the erection of the proposed city hall will be commenced in April.—It is understood that the Jenckes Machine Co. will enlarge their works.

ST. MARY'S, ONT.—James McLaren will build a residence on Widdier street.—J. H. Carter and others who propose building a cereal mill here have asked for a fixed assessment valuation.

MONCTON, N. B.—D. Pottinger, manager Intercolonial Railway, wants tenders by 12th inst. for construction of concrete foundation and framed building for coal handling plant at this place.

ST. GEORGE, N. B.—A party of Boston gentlemen are about to purchase a tract of land at the head of Lake Utopia, the intention being to build a large club house and several cottages this spring.

BRANDON, MAN.—The plans of W. A. Elliott, architect, of this place, have been accepted for brick school of four rooms to be built at Rapid City, and for the Hillview church north of Oak Lake.

BERLIN, ONT.—W. L. Ogilvie, architect of the Public Works Department, Ottawa, made an inspection of the post office and customs house here with a

view to recommending needed improvements.

VICTORIA, B. C.—The Streets and Sewers Committee of the City Council will recommend the construction of a steel bridge to replace the Point Ellice bridge, and that plans be prepared and tenders invited immediately.—Mr. Hooper, architect, has prepared plans for two-storey brick residence and stable and a driveway on Fort street for A. E. Kent.—Allison & Paul, of the Paisley Dye Works, will erect a new building on Fort street.

ST. JOHN, N. B.—The city council have decided to raise the dam at the Silver Falls pumping station and to make other improvements, at a cost of \$6,500.—Over \$43,000 has been subscribed towards the proposed Y. M. C. A. building.

PALMERSTON, ONT.—M. M. Woodbridge has submitted a proposition to the council to establish a chair factory here.—H. F. C. Pett, of Walkerton, has asked for a loan of \$10,000 to assist in the erection of a biscuit and confectionery factory in this town.

VANCOUVER, B. C.—F. C. Hawkins is arranging for the building of a railway line from Dawson to Eldorado creek.—Plans are being prepared by G. W. Grant, architect, for a three-storey brick and stone building for D. B. Stevens, of Toronto, to be erected on Hastings street.

LONDON, ONT.—H. C. McBride, architect, is preparing plans for the following buildings: Two-storey dwelling house on Albert street; alterations to two store fronts on Dundas street for John Coote; store and office building on Dundas street; two-storey dwelling house in Tilsonburg.

NORTH SYDNEY, N. S.—The Cape Breton Silica Company has bonded the Indian Beach property with a view to the erection of works there. The plant, which will be capable of turning out 3,000 bricks per hour, will cost \$50,000. Diram Bonkin is president of the company.

PETERBOROUGH, ONT.—Plans are being prepared for the power house to be built at Burleigh Falls by the Central Ontario Power Co., of which J. A. Culverwell is managing director.—Bids are invited by S. R. Armstrong, town clerk, up to March 27th, for purchase of \$230,000 thirty year debentures, 3½ per cent. interest, payable half-yearly.

QUEBEC, QUE.—Mr. McKenzie, M. P., of Richmond, has introduced a bill in the local legislature authorizing the construction of a bridge across the St. Francis river between the municipalities of Richmond and Melbourne.—The promoters of the proposed new theatre have instructed W. S. Painter, architect, to proceed with the preparation of plans, which will likely be completed by May 1st. Hon. S. N. Parent and Hon. John Sharples are directors.—At a meeting of the Harbor Commissioners last week, Mr. St. George Boswell, C. E., submitted plans for the proposed improvements, and it is likely that they will be adopted by the Government.

SAULT STE. MARIE, ONT.—William O'Brien will build a \$30,000 block east of the Grandview hotel.—J. Thomson is preparing plans for an office building to be built by R. H. Carney.—Thomas Jean will build a residence, to cost \$1,200.—W. Murdock and K. Wright have had plans prepared for proposed dwellings.—It is said that preparations are advancing for the commencement of the second power canal for the Lake

Superior Power Co., and that tenders will be invited shortly.

SARNIA, ONT.—R. W. Fawcett, architect, has prepared plans and invited tenders for additions to foundry and machine shops of T. Doherty & Co., to be 40 x 40 feet, also for addition, 31 x 31 feet, to main building, and 24 x 90 feet to warehouse.—The Sarnia Gas & Electric Light Co. are having plans prepared for an addition to their power house, 48 x 47 feet, and will install one 2,000 light alternator, one street railway generator, and one 450 h. p. cross-compound engine.

SYDNEY, N. S.—Samford Shaver is about to build a business block, three storeys, 35 x 90 feet, of brick, with red sandstone front, steam heating, electric wiring, cost \$18,000.—Neil Ferguson will erect a two-storey building, 40 x 80 feet, pressed brick with stone trimmings, hot water heating, cost \$5,000. Falconer & Magoon are architects of the above buildings and are also designing a two-storey building for Michael Bates.—The Cape Breton Railway Co. are applying to the Government for a bonus for a further 100 miles of railway to Arichat and Mira Bridge, with a bridge crossing the Bras d'Or Lakes, the latter to cost \$185,000.

HAMILTON, ONT.—The Federal Life Assurance Co. have completed the purchase of the property at corner of Main and James streets, and it is understood will erect a fine building thereon.—The club building to be built at Credit Forks by the Caledon Mountain Trout Co. will cost about \$15,000. Plans for same have been prepared by William & Walter Stewart, architects, this city, and tenders close noon of 12th inst.—The purchase of a trenching machine, at a cost of \$1,500, is under consideration by the Sewers Committee.—It is said that an addition will be built this year to the city hospital.—Building permits have been granted as follows: A. W. Peene, four dwellings on Hannah street, for William Morris, cost \$4,000, also alterations to premises, 319-323 East Barton street, for McGregor & Parke, cost \$16,000; J. M. White, alterations for New Osborne Hotel, cost \$2,000; Trustees Eiskine Presbyterian church, alterations, cost \$1,000.

WINNIPEG, MAN.—The D. W. Bole Drug Co. are having plans prepared for a warehouse to be built on Princess street, adjoining the Oddfellow's block.—George Browne, architect, has prepared plans and will shortly invite tenders for a square of buildings to be erected on the corner of Main street and Broadway for Lord Strathcona. The building will be 200 x 150 feet.—The Winnipeg River Power Company has applied to the Provincial Legislature for incorporation.—John Arbuthnot, lumberdealer, will build a planing mill.—Local contractors are figuring on the plans for the new C. P. R. hotel to be built in Banff, N.W.T. The city council has given notice of the intention to construct a sewer on Jarvis avenue, from Charles street to Salter street, cost \$3,157.—Tenders close 20th inst. for supplying the city with from 10,000 to 15,000 barrels of cement.—S. Frank Peters, architect, is preparing plans for a four-storey brick and stone warehouse to be built by the Fairchild Co. north of the C. P. R. freight sheds.

OTTAWA, ONT.—Incorporation has been granted to the Atlantic Pulp & Paper Co., capital \$63,000,000, to build saw and pulp mills on the north side of the Bay of Chaleur, in the county of Bonaventure, Que. W. C. Edwards, M. P., of this city, and C. H. Waterous, of Brantford, are directors of the company.—George Roe, manager of the Baldwin Iron Works, has purchased two lots on Bridge street which will likely be used for an addition to the works.—The

city engineer has submitted an estimate placing the cost of widening the Somerset bridge at \$9,000.—The River St. Clair Railway, Bridge and Tunnel Company and the Canada & Michigan Bridge & Tunnel Co., which propose building bridges across the Detroit river, are seeking an extension of time in which to commence their undertakings.—F. Gelinas, secretary Department of Public Works, invites tenders up to March 15th for construction of armory at Woodstock, N. B., and until March 20th for construction of a custom house at Halifax, N. S., and a post office at Guysborough, N. S.—The Minister of Public Works has stated that plans for the Royal Mint to be built in this city have been submitted to the Imperial authorities for approval. The building will be located on Nepean Point, and will cost about \$400,000.—James Davidson, chairman Board of Works, will receive tenders up to 12th inst. for annual supplies, including hardware, curbing, cement, vitrified clay pipe, brick, etc.—Robert Hastey, chairman Waterworks Committee, wants tenders by 11th inst. for annual supplies for waterworks, including lead pipe, brass goods, hydrants, valves, castings, cast iron pipe, etc.

MONTREAL, QUE.—David Seath, secretary Harbor Commissioners, wants tenders by noon of 7th inst. for furnishing 2000 piles 60 feet long and 9 inches in diameter at the small end, of white pine, red pine, tamarac, spruce or elm.—A new town hall is to be built in the municipality of St. Louis du Mile End, to be of Canadian cut stone and to cost \$50,000.—A deputation from the Boys' Home have requested the assistance of the Protestant Ministerial Association in securing the erection of a modern reformatory for the province.—Chief Benoit, of the fire department, has submitted a report to the city council in which he recommends the following improvements: New central fire station, cost \$30,000; two new fire steamers, \$7,500 each; improvements to No. 3 station, Wellington street, \$1,500; new truss ladder, \$3,000; hose, \$800.—Taylor & Gordon, architects, are preparing plans for the reconstruction of the building of the North British & Mercantile Insurance Co. at corner of St. Francis Xavier and Hospital streets. It is intended to add two storeys to the present building and to entirely remodel the interior. The upper portion will be made into offices.—The Wire and Cable Company have decided to erect a large office and storage building in rear of their factory and facing on Guy street.—Several property holders in Verdun have given property on which it is proposed to construct a fine driveway.—The deputation which went to Ottawa last week believe that the Government will build the bridge asked for over the canal at Atwater avenue.—L. O. David, city clerk, invites tenders up to Thursday, 13th inst., for the supply of the following materials required during the year: Lumber, cement, brick, vitrified clay, pipes and inverts, hardware, spikes, iron castings, oils, paints, river sand, coal tar, etc.

TORONTO, ONT.—The New Ontario Colonization Association have been granted leave to erect a \$3,500 building on the exhibition grounds.—The Private Bills Committee of the Ontario Legislature have passed a bill to confer power on the Estate of the late John Bacon to invest \$50,000 of the estate in houses, to be built on vacant lots on Elgin avenue, Walmer road, and elsewhere in the city.—J. F. Brown, architect, Board of Trade

building, has prepared plans for a Baptist church to be built at Arrnprior, Ont.—It is said that over twenty business place and residences will be erected in North Toronto this year.—Hon. Richard Harcourt will ask the Legislature to ratify an order-in-council appropriating \$125,000 for the erection of a building to be used for the purposes of the medical faculty and department of physiology of the University of Toronto.—G. M. Miller & Co., architects, are asking for tenders up to 8th inst. for alterations and additions to the Havergal Ladies' College, Jarvis street.—Plans have been prepared for a new coal storage warehouse to be built on the lake front, east of the new market, to be of stone, brick, iron and concrete.—Tenders for the new manufacturers' building on the exhibition grounds are invited by the city up to Friday, 7th inst. Plans at office of Gouinlock & Baker, architects, Temple Building.—The council has given notice of the intention to construct the following works: Asphalt pavement on Maynard ave., from King street to Leopold street, cost \$3,525; macadam roadway on Albany avenue, from Wells to Dupont streets, cost, \$4,930; on O'Hara ave., for a distance of 150 feet, cost \$530; and on Logan avenue, from Queen to Gerrard streets, cost \$13,120.—The city engineer has reported

that a bridge for street cars and pedestrians only over the tracks at the foot of Yonge street will cost \$60,000. He urges that the council submit a by-law to the ratepayers to provide money to erect a station for the disposal of all sewage.—The following local improvement works are recommended: Brick pavement on York street, from King to Pearl, cost \$2,010; macadam pavement on York street, south of Front street, cost \$2,640; concrete sidewalks on Huron street, east side, Bernard avenue to Dupont, cost \$726; Spadina road, east side, Bernard avenue to Dupont street, cost \$728; Front street, south side, from Lorne street to 311 feet west, cost \$298.—Building permits have been granted as follows: J. T. Madill, two-storey detached brick dwelling, 33 Summerhill avenue, cost \$2,000; Charles Parker, pair semi-detached, two-storey and attic brick dwelling, 11 Bernard ave., cost \$6,500; W. Keeler, two-storey and attic dwelling, 96 Givens street, and alterations to dwelling at 94 Givens street, cost \$2,000; William and J. G. Greey, brick addition to warehouse, 57 Front street east, cost \$800; J. S. Montgomery, pair semi-detached dwellings, Euclid avenue, near College street, cost \$6,000; J. Westcott, five attached two-storey brick stores, corner Queen and Fuller streets, cost \$4,000;

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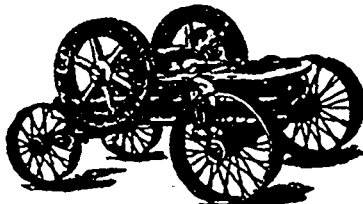
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MUNICIPAL DEBENTURES BOUGHT

EMILIUS JARVIS & CO. (Toronto Stock Exchange) 19-21 King St. West, TORONTO, Ont.

A. J. Moody, two storey brick and rough cast dwelling, 198 Hamilton street, cost \$1,000; W. H. Smith, one-storey brick horse sales ring, corner Nelson and Simcoe streets, cost \$6,000; Henry Davies, two-storey brick dwelling, 248 Major street, cost \$2,000; E. S. Rupert, two-storey brick dwelling, west side Wells street, near Howland avenue, cost \$3,500; E. Philips, two-storey brick dwelling, west side Manning avenue, north of Bloor street, cost \$2,000.

FIRES.

Planing mill of the Dunnville Planing Co., Dunnville, Ont., totalled destroyed; loss \$5,000. — A printing plant at Mitchell, Ont., owned by W. R. Davis, damaged to extent of \$2,000.—Union Loan Building, 28 Toronto street, Toronto, partially destroyed; loss \$30,000. The building is owned by the Toronto Mortgage Co.—Acetylene gas plant at Carberry, Man.; loss \$7,000.—Large brick buildings of the New Hamburg Mfg. Co., at New Hamburg, Ont., almost completely destroyed. The buildings belonged to Henry Bredrecht, and the loss is estimated at \$25,000.

CONTRACTS AWARDED.

ST. CATHARINES, ONT.—Brick block for Wood Bros.: Newman Bros., contractors.

BAYFIELD, ONT.—New Presbyterian church: Buchanan & Lawson, Goderich, contractors.

LANARK, ONT.—Congregational church: George Bradford, Almonte, contractor for mason work.

ST. JOHN, N. B.—Heating immigration building at Sand Point by hot water: R. E. Fitzgerald, contractor.

WIARTON, ONT.—Dwelling and store for George Kempf: Masonry, Mr. Robertson; carpenter work, Bell & Glover.

KINGSTON, ONT.—The Canadian Locomotive Works have received contract for four locomotives for the Algoma Central Railroad.

GIBSON, N.B.—Simmons & Burpee, this place have been awarded the con-

tract for building the Caraqueet wharf; price about \$60,000.

PORT ARTHUR, ONT.—Vigars & Co. have closed a contract for a new passenger and freight dock for the Canadian Northern Railway, to cost \$40,000.

TORONTO, ONT.—The following

are the lowest tenders for new exhibit on dairy building: Masonry, Witchel & Son, \$2,827; carpentering, Medlar & Arnot, \$5,696; plastering, Edge & Son \$2,795; painting, C. Davis & Co., \$840; plumbing, John Ritchie & Co., \$110; ironwork, A. Matthews, \$1,925; electric wiring, Macdonald & Wilson, \$112.

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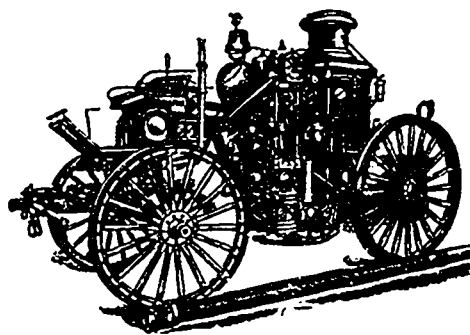
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OWEN SOUND, ONT.—Buildings for McQuay Tanning Co. Stone, W. Mawhinney; stonework, R. B. French; lumber, John Harrison & Sons Co.—Alex. Green has secured contract for carpenter work, painting, and plastering of new Balmy Beach hotel. The tenders for plumbing and electric lighting are still under consideration.

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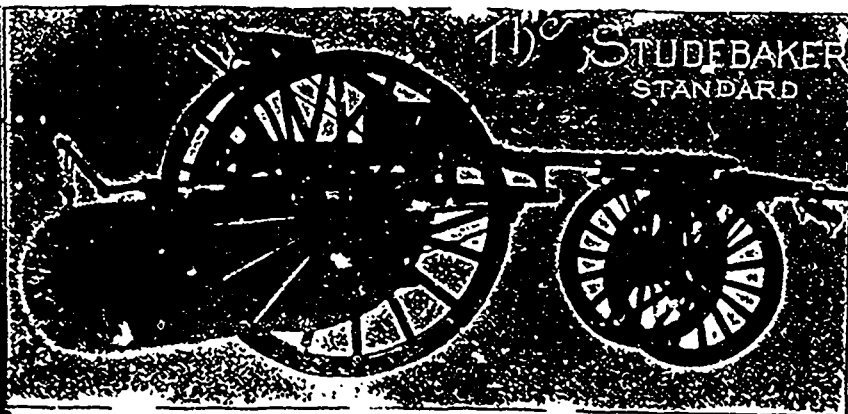
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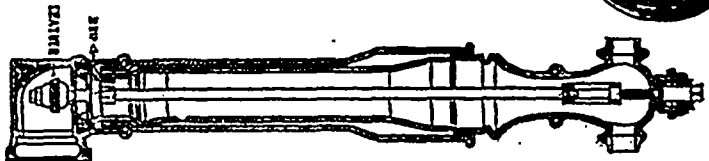
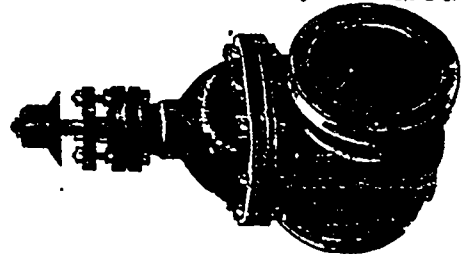
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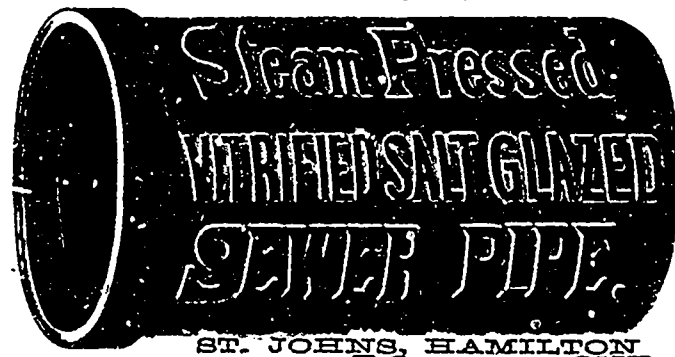
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OIL IN STREET CONSTRUCTION.*

The oiling of roads has passed the experimental stage as far as its utility is concerned, for that is admitted on all sides. It is now a question of the best methods, and the best appliances. There has also been an important development and advance in its use. Oil was first used on roads, and that only two or three years ago, with the idea of laying dust, and with that idea alone, a company was formed a few years ago called Dustless Roads Company. We did our first oiling in San Bernardino County, by contract with this company. At that time, all that was attempted to be done was to make the dust heavy, by mixing it with a small quantity of oil, so that it would not rise. We have gone beyond this idea, and now use oil as an important element in making a permanent road-bed, having a good wearing surface, smooth and firm, free from dust during the summer, and without mud in the winter. While we do not claim exclusive discoveries in San Bernardino County, we have worked and experimented along this line, during the last three years, with a very fair measure of success.

The foundation of the Chino streets is loose sand and sandy loam, the sand predominating. This was graded and covered with a surfacing material, which we obtained from the Chino Hills, a disintegrated oil sandstone, with sufficient clay in its composition to cement the grit and make it pack hard and firm, when worked up with water and rolled.

This gave us, probably, the best results which we have obtained. This surfacing material is a natural absorbent of oil. It is mostly silicious in composition and gives good wear. It has sufficient cementing qualities to keep it solidly compacted together; and the oil makes with it an elastic surface that is firm and smooth, and requires the third year of its life but little attention to keep it in repair. The quantity of oil used was nearly as follows; First season, 120 barrels to the mile on a basis of 18 feet width of application; second season, 70 to 80 barrels per mile; third season, 25 to 30 barrels per mile.

In 1899, when we commenced using oil, we would have considered applying it to a surface of loose sand of considerable depth a mere waste of material. But the possibilities of oil have kept growing upon us, until now we almost look upon it as the great panacea for all the ills to which roads are subject. On this sand we now put two heavy applications of 100 barrels per mile each, 12 feet wide. Over a road made in this way much hay is hauled; and the farmers told me, before it had become as firm as it is now, that they hauled with more ease, double the weight of hay, with the same stock that they

used to haul over the loose sand. Next season we can make a good road of it on the foundation now secured.

The hardest proposition we have is to make an oiled road on a tight clay surface. The clay will not absorb the oil to any appreciable extent; and the fine clay dust will not mix well with it, but will ball up and carry off. After the oil is put on the first wagon that is driven over it is liable to roll up these flakes in places and carry them off. Here the sanding process of which I will speak further on, comes in with good advantage, by which a good wearing surface can be built up on the adobe as a foundation, and satisfactory results obtained, something as an asphalt pavement is built up on a previously prepared foundation.

Oil on roads, besides adding to make a wearing surface, preserves the roadbed. It follows, therefore, that the road-bed should be carefully prepared, well-graded and shaped, and the surface smoothed and packed, as firmly as the material of which it is composed will permit, before the oil is applied. We therefore do our grading during the early part of winter, that the roadbed may have the benefit of the winter rains, and become packed from travel as well as from thorough rolling. We roll after it has become moistened through. Then in the spring, while still moist, we go over it with a blade grader or smoother or both, and dress up the surface, crowning it as desired; and as soon thereafter as the surface is dry and the weather is settled and warm, the oil is

applied; as much in quantity as the material will absorb and mix with. This has reference to a road never oiled before.

It may be desired to put oil on a road that is not in very good shape as to grade and smoothness of surface. It is not recommended to apply oil to such a road, but circumstances may make it seem desirable. In such a road there may be chuck-holes full of dust. To oil it, we go over the holes first: scraping out the dust, filling them nearly full of oil, and then with hoe and rake, work in the dust, together with sharp sand and fine gravel, which are thrown in from a wagon drawn alongside, until the holes are filled from bottom up with oil, dirt and gravel, thoroughly mixed together. When all the holes are filled, we apply a coat of oil to the whole surface of the road. Should the road be very uneven, however, and full of holes, we prefer to haul on gravel, of a kind that will pack, and fill up the holes and uneven places, saturate with water and roll, before applying oil. Should the surface of a road be worked up to a considerable depth of dust, if it is of a nature to pack with water and compression, we drench it thoroughly and roll. But if it will not so pack, being of too sandy a nature, we pour on the oil, attempting to saturate all loose material to the firmer stratum below. The only rule we have as to quantity of oil to be applied is to put on sufficient to saturate all of the loose covering of the road, and secure some penetration into the firm road-bed beneath.

(To be Continued.)

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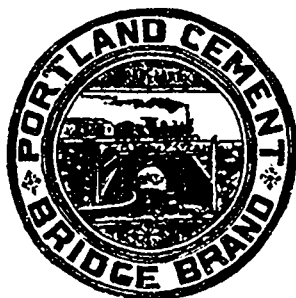
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*Abstract of a paper read before the League of California Municipalities by Mr. T. F. White, Chico, Cal.

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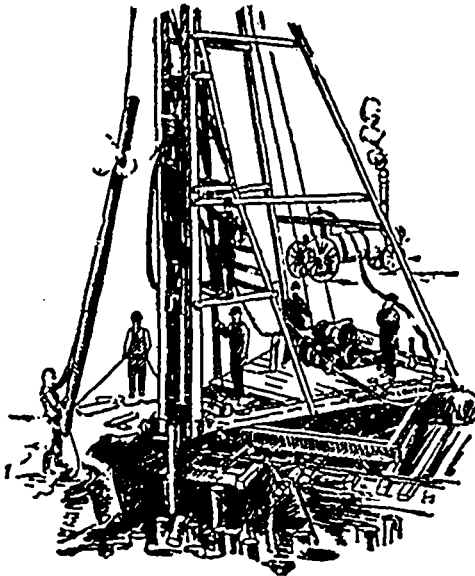
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Large index table listing various construction-related categories such as Architects, Contractors' Plant and Machinery, Cement, etc., with associated company names and page numbers.

Table for BEAMSVILLE, MONTREAL listing prices for various types of Portland Cement.

Table for STONE listing prices for various types of stone like Common Rubble, Granite, etc.

Table for ARCHITECTURAL FURNISHINGS listing prices for various decorative items.

Table for CREDIT VALLEY STONE listing prices for different types of stone.

Table for SLATE listing prices for various types of slate roofing.

Table for CEMENT, LIME, etc. listing prices for various construction materials.

Table for ARCHITECTURAL FURNISHINGS listing prices for various decorative items.

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