

Technical and Bibliographic Notes / Notes techniques et bibliographiques

The Institute has attempted to obtain the best original copy available for filming. Features of this copy which may be bibliographically unique, which may alter any of the images in the reproduction, or which may significantly change the usual method of filming, are checked below.

L'Institut a microfilmé le meilleur exemplaire qu'il lui a été possible de se procurer. Les détails de cet exemplaire qui sont peut-être uniques du point de vue bibliographique, qui peuvent modifier une image reproduite, ou qui peuvent exiger une modification dans la méthode normale de filmage sont indiqués ci-dessous.

Coloured covers/
Couverture de couleur

Covers damaged/
Couverture endommagée

Covers restored and/or laminated/
Couverture restaurée et/ou pelliculée

Cover title missing/
Le titre de couverture manque

Coloured maps/
Cartes géographiques en couleur

Coloured ink (i.e. other than blue or black)/
Encre de couleur (i.e. autre que bleue ou noire)

Coloured plates and/or illustrations/
Planches et/ou illustrations en couleur

Bound with other material/
Relié avec d'autres documents

Tight binding may cause shadows or distortion
along interior margin/
La reliure serrée peut causer de l'ombre ou de la
distorsion le long de la marge intérieure

Blank leaves added during restoration may appear
within the text. Whenever possible, these have
been omitted from filming/
Il se peut que certaines pages blanches ajoutées
lors d'une restauration apparaissent dans le texte,
mais, lorsque cela était possible, ces pages n'ont
pas été filmées.

Additional comments:/
Commentaires supplémentaires:

Coloured pages/
Pages de couleur

Pages damaged/
Pages endommagées

Pages restored and/or laminated/
Pages restaurées et/ou pelliculées

Pages discoloured, stained or foxed/
Pages décolorées, tachetées ou piquées

Pages detached/
Pages détachées

Showthrough/
Transparence

Quality of print varies/
Qualité inégale de l'impression

Continuous pagination/
Pagination continue

Includes index(es)/
Comprend un (des) index

Title on header taken from:/
Le titre de l'en-tête provient:

Title page of issue/
Page de titre de la livraison

Caption of issue/
Titre de départ de la livraison

Masthead/
Générique (périodiques) de la livraison

This item is filmed at the reduction ratio checked below/
Ce document est filmé au taux de réduction indiqué ci-dessous.

10X	12X	14X	16X	18X	20X	22X	24X	26X	28X	30X	32X
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

THE Canadian Contract Record

A Weekly Journal of Advance Information and Public Works.

Vol. 1.

Toronto and Montreal, Canada, July 19, 1890.

No. 23

THE CANADIAN CONTRACT RECORD,

*A Weekly Journal of Advance Information
and Public Works.*

PUBLISHED EVERY SATURDAY

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

Subscription Price of "Canadian Architect and Builder" (including "Canadian Contract Record") \$2 per annum, payable in advance.

C. H. MORTIMER, Publisher.

14 KING ST. WEST, TORONTO, CANADA

Temple Building, - Montreal.

Telephone 2362.
Bell Telephone 2249.

The purpose of this journal is to supply Contractors, Manufacturers and Dealers throughout Canada, with advance information regarding contracts open to tender, and to furnish Architects, Municipal and other Corporations with a direct medium of communication with Contractors.

Information from any part of the Dominion regarding contracts open to tender will be gratefully received.

ADVERTISING RATES ON APPLICATION.

At its Convention held in Toronto, Nov. 20 and 21, 1889, the Ontario Association of Architects signified its approval of the CANADIAN CONTRACT RECORD, and pledged its members to use this journal as their medium of communication with contractors with respect to advertisements for Tenders.

The publisher of the "Canadian Contract Record" desires to ensure the regular and prompt delivery of this Journal to every subscriber, and requests that any cause of complaint in this particular be reported at once to the office of publication. Subscribers who may change their address should also give prompt notice of same, and in doing so, should give both old and new address.

A NOVEL WROUGHT IRON CHIMNEY.

The following are particulars of a wrought-iron factory chimney, of a somewhat novel description, which has been built at Creusot. The total height is 279 feet, the diameter 23 feet at the base and 7 feet 6 inches at the top, the total weight being 80 tons, exclusive of masonry foundations. The latter are carried 3 feet 3 inches above the ground, and weigh about 300 tons. The shaft was built in successive rings, each 4 feet 1 inch high, the thickness varying from 9-16 inch at the base to $\frac{1}{4}$ inch at the top. The nine lower rings were formed of eight plates each, the upper ones of four plates each. The base was encircled by a massive angle iron bolted to the foundation. The eight lower rings were lined with firebrick. The erection of the chimney occupied 70 days, including taking down the flying scaffold. The latter was of a somewhat novel character. It consisted of a central wrought-iron tube 7 inches in diameter, and provided at the bottom with four wooden cross-bars or arms, so clamped that their length could be adjusted to suit the varying diameter of the chimney, and carrying the internal platform. These arms rested on angle brackets refitted to the interior of the plates. The upper part of the central tube carried four cross arms or jibs, each consisting of a pair of timbers stiffened by raking struts from the central tube. From their outer ends was slung the exterior circular platform. The latter consisted of a pair of angle iron rings, to the outer part of which was riveted a plate iron fence, while the inner was provided with T-iron stanchions. Radial bearing timbers, resting on these rings, and adjustable endwise to suit the varying diameter of the chimney, carried the platform, an annular space being left just sufficient for hoisting the plates. The latter operation was effected by a rope passing over an adjustable pulley fixed to each jib in turn, and carried down a central tube to a snatch block fixed at the bottom of the chimney. As each successive ring was riveted up, two pairs of bars were laid across, by which the scaffold was slung by four jack screws furnished with ratchet collars, and thus raised high enough to take a bearing, on the next set of angle brackets. The complete scaffold weighed about four tons and the heaviest plate about 8 cwt. The total cost without foundations, was about \$8,000. *Engineering News.*

1890							1890							1890						
Jan.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	Jan.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.	Jan.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	6	7
8	9	10	11	12	13	14	8	9	10	11	12	13	14	8	9	10	11	12	13	14
15	16	17	18	19	20	21	15	16	17	18	19	20	21	15	16	17	18	19	20	21
22	23	24	25	26	27	28	22	23	24	25	26	27	28	22	23	24	25	26	27	28
29	30	31					29	30	31					29	30	31				



CONTRACTS OPEN.

- CALEDONIA, ONT.—A new Presbyterian manse is to be erected.
- EAST TORONTO. The council ask tenders for graveling Beach avenue.
- QUEBEC. — Mr. Chas. Baillairge, City Engineer, is about to erect a residence here.
- MADOC, ONT. - The citizens are agitating the question of the erection of a new post office.
- BRANTFORD, ONT. Tenders for the erection of the new public school will be received until Monday, 21st inst.
- VICTORIA, B. C. — Plans have been prepared by Mr. J. Hooper for a handsome residence for Mr. J. Dougall.
- WOODSTOCK, ONT. — Messrs. Cuthbertson & Fowler have prepared plans for the new school houses at Ayr and Drumbo.
- HALIFAX, N. S. A syndicate of capitalists are perfecting arrangements for the erection of a first-class hotel in the central part of the city.
- LONDON, ONT. — At a meeting of the Building Committee of St. Paul's Cathedral held on the 14th inst., it was decided to proceed at once with the work of remodelling and extending the church.
- WINDSOR, ONT. — Tenders are wanted for the construction of the electric lighting plant to consist of three fifty-light arc dynamos, with 2,000 candle power each, together with all machinery, including boiler, steam engine and steam pump. The work must be completed by September 13.
- HAMILTON, ONT. — The plans have been prepared for the proposed building for the Royal Templars of Temperance, but a suitable site has not yet been found. — The management of the general hospital have suggested to the City Council the advisability of erecting a new maternity wing to that institution.
- LEAMINGTON, ONT. — The Secretary of the Public School Board will receive tenders until noon on July 31st for the erection of an eight-room school. Contractors to give estimates with and without the old building included, as a rebate, and with either a slated or shingled roof. Plans and specifications can be seen at the Leamington post office.
- KINGSTON, ONT. The Council has passed a by law which will be submitted for approval to the people, authorizing the erection of a fire-hall in the upper portion of the city. The Board of Trade urges the Government to erect grain elevators at this point. Queen's College Missionary Association will erect a new mission church. The council gives notice of its intention to construct a sewer on Brock street at an estimated cost of \$2,560.
- TORONTO, ONT. City Engineer Jennings is preparing plans for the reconstruction of the Yonge street sewer, from Anne street to Bloor street, and of the Queen street sewer, from John street to Beverley street. — The purchase of the old asylum water works property at the foot of Strachan avenue has been recommended as the site for a garbage crematory. Tenders accompanied by plans and specifications are wanted by the Markets and License Committee of the City Council for improving the heating arrangements at the jail. The Council at its last meeting resolved to proceed with the erection of the Dundas street bridge, but an injunction has been applied for to restrain them from doing so. — The following building permits have

been granted Henry F Thomson, pair 2 storey and attic bk. dwellings, Tranby ave., cost \$5,500; R. G. Kirby, pair 2 storey and attic bk. dwellings, Davenport Road, west of Avenue Road, cost \$3,500; Toronto mission union, one storey bk. mission hall, Mission ave., and alterations to Aged Women's Home, 221 and 223 Elizabeth st., cost \$6,000; Geo. Ringham, two 1 storey and mansard houses, south side Walter st., cost \$1,500; J. W. Barbour, 2 storey bk. dwelling, Concord ave., cost \$1,600.

MONTREAL, QUE.—The Roads Committee has reported in favor of the erection of a bridge on St. Catherine street east, across the C. P. R., at an estimated cost of \$90,000.—A new post office is to be erected at St. Henri, and the Public Works department will soon call for tenders for the work.—The old Methodist Church at the corner of Seigneurs and Notre Dame Sts. has been purchased by Messrs. Laporte & Martin and will be converted into stores.—The Minister of Public Works has given orders for the survey of the ship channel between Cap Charles and Pointe aux Trembleaux to be proceeded with at once.—By-laws empowering the Council of Cote St. Antoine to borrow \$350,000 for the construction of a sewerage system, and \$100,000 for water-works will be submitted to a vote of the ratepayers on Monday, the 21st inst.—The following building permits have been granted: S. Landry, two 1-storey stone dwellings, 198 Visitation St., cost \$2,000 each; Gustave Rolland, stone dwelling, 432 Dorchester St., cost \$8,000; Mr. Loiseau, 2½-storey stone dwelling, 352 Amherst St., cost \$2,000; Estate John Ogilow, two stone shops, St. James St., corner Roy Lane, cost \$3,000; Ph. & Kas. Gravel, four 2-storey stone dwellings, St. Gabriel of Montreal, cost \$1,500, H. Lesage, 2½-storey stone dwelling, cost \$2,800; C. St. John, architect; Telephone Valade, two 2½-storey stone dwellings, cost \$2,000 each; A. Lafrance, four 2½-storey stone dwellings, corner St. Catherine and Davidson Sts., cost \$2,100 each; H. Contris, two 3-storey stone dwellings, cost \$4,000 each; Regis Pese, two 2½-storey dwellings, 739 Napoleon St., cost \$1,500 each; G. C. Baril, 2-storey wood and brick dwellings, 163 to 167 Descry St., cost \$1,200, Elz. Rousseau, two 2½-storey stone dwellings, Darling St., cost \$2,100 each; S. D. Vallieres, two 3-storey stone dwellings, 21 to 25 St. Lawrence St., cost \$2,500 each; A. Lafortune, 2½ storey stone dwellings, 35 to 37 Frontenac St., cost \$2,000 each.

CONTRACTS AWARDED

FERGUS, ONT.—The Council has awarded the contract for the iron bridge across the Grand river at St. David street to the Peterboro Bridge Works for \$1,920.60.

LONDON, ONT.—Mr. F. W. Schwendiman, Drayton, Ont., has been awarded a contract in connection with the Asylum improvements, amounting to between \$8,000 and \$9,000.—The Bennet Furnishing Co., of London, Ont., have been awarded the contract for seating St. Michael's Cathedral, Toronto.

KINGSTON, ONT.—Contracts for repairs to public school buildings have been awarded to the following contractors: Carpentering—Cataragui school, S. Jenkins; Williamsville school, S. Chapman; Louise school, B. Asseltine; Queen street school, S. Chapman. Painting and kalsomining—Cataragui school, John Laird; Queen street school, Williamsville and Frontenac schools, T. H. McMahon. Tinsmithing—Nugent & Taylor.

MONTREAL, QUE.—The following contracts for iron work have been awarded Messrs. Ives & Co.:—Cast iron work and stairs for Sun Life building, R. Findlay, architect; ornamental wrought iron work, Young Men's Christian Association, Messrs Fuller & Wheeler, Albany, architects; office building, Ottawa, Messrs. Arnoldi & Calderon, architects; Victoria Hospital, H. Saxon Snell & Sons, architects, London, Eng.; Workman & Macdonald buildings, McGill University, Taylor & Gordon, architects, Montreal; residence for James Ross, Bruce Price, architect, New York; special castings for waterworks department, Montreal.—Contracts for the construction of sewers have been awarded as follows: John Parker, Roy street, from St. Hubert to Berri, \$6.90, rock excavation, \$4, Berri street, from Mary Ann to Mount Royal, cross section A. \$3.50, and cross section B \$3.50; excavation, \$6.70, M. F. Sheridan, Panet street, south of Lagau-chetiere, to St. Rose, \$7.25, Bleury street, from Lagau-chetiere to Dorchester, \$7.24; Dorchester street, from St. Lawrence to Dominique, \$7.75; rock excavations, \$4.—The following were found by the Roads Committee to be the lowest tenders for street pavements: Supply tamarac blocks—St. Catherine street, between De Lorimier ave. and Panet street—Bastien & Valiquette, \$1.60, and James Cochrane, \$1.75, laying \$2.35 and \$2.40 respectively, St. Catherine street, between Amherst and St. Andre streets—Bastien & Valiquette, \$1.66, and James Cochrane, \$1.75; laying, \$2.35 and \$2.45 respectively; St. Catherine street, between University and Peel—James Cochrane, \$1.75, and Bastien & Valiquette, \$2, laying, \$2.40 and \$2.48 respectively; Dorchester street, between Peel and Fort streets—Only tender was from Bastien & Valiquette, Papineau road, between Papineau square and St. Catherine street—only tender was from Bastien & Valiquette; Windsor street, between St. James and St. Antoine streets—James Cochrane, \$1.75, laying, \$2.40, St. Lawrence street, between Craig and Lagau-chetiere streets—Bastien & Valiquette, \$1.60; laying, \$2.35; St. Gabriel street, between Notre Dame and St. Paul streets—James Cochrane, \$1.75; Bastien & Valiquette, \$1.75, laying, \$2.50 and \$2.58 respectively. Tenders for asphalt were opened as under: Notre Dame street, between Parthenais and Frontenac streets—Val de Travers, Montreal Roofing company, \$4.18;

Sicilian rock asphalt, James Cochrane, \$3.96, Trinidad asphalt, Warren-Scharf company, \$2.98. The tenders of these contractors for excavating, moving and grading the street railway trucks were respectively 86, 79 and 65 cents; Fortification lane, between Victoria square and St. Francois Xavier street—Val de Travers, Montreal Roofing company, \$4.35; Trinidad asphalt, Warren-Scharf company, \$2.98; Sicilian rock asphalt, James Cochrane, \$3.89, Fortification lane, between Place d'Armes hill and St. Gabriel street—Val de Travers, Montreal Roofing company, \$4.33, Trinidad asphalt, Warren-Scharf company, \$2.98, Sicilian rock asphalt, James Cochrane, \$3.89, Windsor street, between Osborne and Dorchester streets—Val de Travers, Montreal Roofing Company, \$4.25, Trinidad asphalt, Warren-Scharf company, \$2.98; Sicilian rock asphalt, \$3.97; Mountain street, between Dorchester and Sherbrooke streets—Val de Travers, Montreal Roofing Co., \$4.21, Trinidad asphalt, Warren-Scharf Company, \$2.98; Sicilian rock asphalt, James Cochrane, \$3.97, Peel street, between Dorchester and St. Catherine streets—Val de Travers, Montreal Roofing Co., \$4.23; Trinidad asphalt, Warren-Scharf company, \$2.98, Sicilian asphalt, James Cochrane, \$3.97; St. Peter street, between Notre Dame and St. Paul streets—Val de Travers, Montreal Roofing Company \$4.35; Trinidad asphalt, Warren-Scharf Company, \$2.98; Sicilian asphalt, James Cochrane, \$3.98; St. Vincent street, from St. Paul southward—Val de Travers, Montreal Roofing Company, \$4.40, Trinidad asphalt, Warren-Scharf Company, \$2.98, Sicilian rock asphalt, \$3.99, St. Therese street, between St. Vincent and St. Gabriel streets—Val de Travers, Montreal Roofing Co., \$4.40; Trinidad asphalt, Warren-Scharf Company, \$2.98; Sicilian rock asphalt, Joseph Cochrane, \$3.99; St. George street, between Craig street and Fortification lane—Val de Travers, Montreal Roofing Company, \$4.45; Trinidad asphalt, Warren-Scharf Company, \$2.98; Sicilian rock asphalt, James Cochrane, \$3.99.—It was decided that the three streets open for competition, Notre Dame, St. Vincent and Fortification lane, be laid with Trinidad asphalt, on a ten years' guarantee, at \$3.43, and that the remainder be laid with Sicilian asphalt, also on a ten years' guarantee, at the prices given in the tenders of Mr. Cochrane.—The contract for chainstone for the streets to be paved with asphalt was given as under: Limestone to Desormier Bros., and granite to James Cochrane.—Tenders were opened for block-stone paving as follows:—Windsor street, between St. Antoine and Osborne, supply, granite blocks, Bastien & Valiquette, \$2.50; F. D. Lawrence, \$2.32½, F. H. McKenna, \$2.40; James Cochrane, \$2.30. The same persons tendered for the laying, respectively, as follows.—Flagstone crossings, \$2.29, \$1.99, \$2.26, and \$2.20; block-stone pavements, \$2.29, \$2.26, \$2.26, \$2.20; curbstone, 40 cents, 38 cents, 36 cents, 41 cents; Mr. Cochrane's tender was accepted; St. Patrick street, between Wellington and Conde:—Supply: Granite blocks, James Cochrane, \$1.98½; granite curbstone, straight, 85 cents and curved, 95 cents. Granite blocks, F. D. Lawrence, \$2.07; porphyry blocks, \$2.29. For the laying the tenders were, flagstone crossings, James Cochrane, \$2.20, and F. D. Lawrence, \$1.99; block-stone pavement, Cochrane, \$2.20, and Lawrence \$2.26; curbstone, Cochrane, 42 cents, and Lawrence 38 cents; it was decided to give 3,400 yards to Mr. Cochrane and the remainder to Mr. Lawrence, so that the latter could put down Belgian blocks and thus give the stone a trial; St. Lambert hill, between Craig and St. James streets—Supply: Granite blocks, Bastien & Valiquette, \$3.35; F. D. Lawrence, \$3.06; James Cochrane, \$2.98; F. H. McKenna, \$3.10. For the laying the tenders of the same contractors were respectively as under:—Flagstone crossings, \$2.29, \$1.99, \$2.20, and \$2.25; block-stone pavement, \$6.29, \$2.26½, \$2.20 and \$2.25; curbstone, 40, 38, 41 and 35 cents, Place d'Armes hill, between Craig and St. James streets—Supply: Granite blocks, F. H. McKenna, \$3.10; Bastien & Valiquette, \$3.35, F. D. Lawrence, \$3.06; James Cochrane, \$2.98. For the laying the same contractors' tenders were respectively as under. Flagstone crossings, \$2.25, \$2.29, \$1.99 and \$2.20; block-stone pavement, \$2.25, \$2.29, \$2.61½ and \$2.20, curbstone, 36, 40, 38 and 41 cents; the tender of Mr. Cochrane was accepted; Lacroix street, between Craig and Notre Dame streets—Supply: Granite blocks, James Cochrane, \$2.36; Bastien & Valiquette, \$2.50; F. H. McKenna, \$2.29; F. D. Lawrence, \$2.32½. For the laying the same contractors' tenders were respectively, flagstone crossings, \$2.20, \$2.29, \$2.15 and \$1.99, block-stone pavement, \$2.20, \$2.29, \$2.15 and \$2.26½, curbstone, 41, 40, 36 and 38 cents; contract given to Mr. McKenna; Notre Dame street, between DeLorimier avenue and Parthenais street—Supply: Granite blocks, F. D. Lawrence, \$2.32½, James Cochrane, \$2.36; Bastien & Valiquette, \$2.50; F. H. McKenna, \$2.29. For the laying the same contractors' tenders were respectively, flagstone crossings, \$1.99, \$2.20, \$2.29 and 2.15; blockstone pavement, \$2.26, \$2.20, \$2.29 and \$2.15; curbstone, 38, 25, 40 and 18 cents. Mr. McKenna's contract was accepted. Barrack street, between Commissioners and Notre Dame streets—Supply: Granite blocks, James Cochrane, \$3.03; Bastien & Valiquette, \$3.35; F. H. McKenna, \$2.95; F. D. Lawrence, \$3.16. For the laying the same contractors' tenders were respectively, flagstone crossings, \$2.20, \$2.29, \$2.15 and \$1.99; blockstone pavement, \$2.20, \$2.29, \$2.15 and \$2.26½, curbstone, 41, 40, 36, 38 cents. Mr. McKenna's tender accepted. The council has decided to refer the contracts for street paving to the Finance Committee for further consideration. There is much dissatisfaction expressed with the figures, and the limited number of tenderers. It is alleged that an understanding existed between the tenderers. It is suggested that new tenders be called for.

The relative merits of bricks and stone as materials for cellar walls and foundations have recently been the subject of considerable newspaper discussion here.

With respect to the strength of these materials, there is little if any room for preference. A well-built hard brick foundation wall will sustain any superstructure that can be placed upon it. And the same may be said of first-class stone foundation. The only drawback to the latter in this vicinity is the difficulty which has heretofore prevailed of quarrying stone suitably shaped to make a good bed and bond. If the stones placed in such walls are angular in shape they are rather a source of weakness than strength to the structure. Another reason for the disfavor with which stone foundations have been regarded has been the carelessness of the masons in laying and filling in with stones of all shapes and too much mortar. But it is undoubtedly possible to get suitable stone here and labor to lay it so that foundations which can not be surpassed may be made of that material.

As to the exclusion of moisture, where both kinds of walls are well laid, there is no advantage between brick and stone. If the brick is laid in first-class cement and solidly flushed joints, no water can pass, and good stone wall is equally impervious to moisture, the only problem in this respect being one of honest workmanship.

HOW TO BREAK BOWLERS.

A western correspondent of the *Scientific American* gives the following as his method of breaking large bowlders:

"Some ten years ago I superintended the sinking of a large well in which we got great quantities of very hard granite bowlders, varying from 100 pounds to 150 pounds in weight. The heaviest sledge we had brought to bear on them by a powerful man had little or no effect on them, but we broke them easily by means of giant powder without drilling holes into them. We placed from one to eight sticks of seven-eight giant on a bowlder, according to the size, and put a shovelful of moist earth on the powder, just to keep it in position, fired the charge and never failed to break our bowlder. If the pieces were too large to handle, and would not yield to the sledge, we repeated the operation until they were small enough."

COMPETENT DRAUGHTSMAN

Having spare time at his disposal, is prepared to make plans and tracings. Terms moderate. Apply

"X. Y. Z."

Montreal office of the CANADIAN ARCHITECT AND BUILDER, 62 Temple Building.

TENDERS

Will be received up to noon on Saturday, 26th inst., for the various works required in the erection of a Residence for Dr. T. Norton, Shelburne. Plans, etc., can be seen at the Doctor's office. The lowest or any tender not necessarily accepted.

J. A. ELLIS, Architect, Dundas Chambers, West Toronto Junction.

TENDERS

Will be received at the office of the undersigned, where plans and specifications may be seen, on or before FRIDAY, JULY 27TH, at 12 o'clock noon, for a brick school building at Swansea for West Toronto Junction Public School Board. No tender necessarily accepted.

J. A. ELLIS, Architect, Room 7, Dundas Chambers, West Toronto Junction.



NOTICE TO CONTRACTORS.

Tenders will be received by registered post, addressed to the City Engineer, up to noon on Tuesday, the 29th of July inst., for the supply of the following quantities of

PAVING MATERIAL

to be used for the paving of King street west — Four hundred thousand (400,000) feet, b. m., of four-inch tamarac planks, sound and free from defects, in widths varying from eight inches to twelve inches.

Six thousand lineal feet of six-inch stone kerbing, in lengths not less than four feet and two feet six inches deep, to be of Medina sandstone, or stone of equal quality, the face of stone to be dressed twelve inches deep, and back of stone six inches deep.

One hundred and fifty lineal feet of six-inch stone circular kerbing, similar quality to above, nine feet six inches radius, in lengths not less than three feet, and dressed as above.

Stone flags four inches thick, eight feet long by not less than four feet wide, sufficient to lay a total length of 1,720 feet.

All material to be delivered at the King street subway.

Plans can be seen, quantities and forms of tender obtained on and after July 22nd inst., at the City Engineer's office.

A deposit in the form of a marked cheque, payable to the order of the City Treasurer, for the sum of 5 per cent. on the value of the work tendered for under \$1,000, and 2½ per cent. over that amount must accompany each and every tender. Otherwise it will not be entertained. All tenders must bear the bona fide signatures of the contractors and his sureties (see specifications), or they will be ruled out as informal.

The committee do not bind themselves to accept the lowest or any tender.

JOHN SHAW,

Chairman Committee on Works. Committee Rooms, Toronto, July 18, 1890.



NOTICE TO CONTRACTORS.

Tenders will be received by registered post, addressed to the City Engineer, up to noon on TUESDAY, JULY 29TH, 1890, for the following works:

CEDAR BLOCK PAVEMENTS.

Dunbar Road, from Elm avenue to Hill street; Hamburg avenue, from Bloor street to Union street;

Palmerston avenue, from Bloor street to railway tracks;

Sydenham lane, from Sydenham street to south terminus;

Grafton avenue, from Roncesvalles avenue to east terminus;

Brunswick Place, from Walmer road to Brunswick avenue;

Palmerston avenue, from College street to a point 600 feet north, on concrete foundation, and with stone kerbs.

ASPHALT PAVEMENT

on Palmerston avenue, from College street to a point 600 feet north, with stone kerbs.

Plans can be seen, quantities and forms of tender obtained on and after July 22nd inst., at the City Engineer's office.

A deposit in the form of a marked cheque, payable to the order of the City Treasurer, for the sum of 5 per cent. on the value of the work tendered for under \$1,000, and 2½ per cent. over that amount, must accompany each and every tender, otherwise it will not be entertained. All tenders must bear the bona fide signatures of the contractor and his sureties (see specifications) or they will be ruled out as informal.

The committee do not bind themselves to accept the lowest or any tender.

NOTICE TO PROPERTY OWNERS.

Property owners on the above named streets are hereby notified, by order of the City Engineer, that unless private drain connections, water and gas services, where required, are made before the construction of the pavements, a charge of \$2.50 per square yard of surface to be broken will be made if permission be asked to lay them in afterwards.

JOHN SHAW,

Chairman Committee on Works. Committee Rooms, July 18, 1890.

Prices of Building Materials.

LUMBER.

CAR OR CARGO LOTS.	
1½ and thicker clear picks, Am. ins.	\$30 00 @ 38 00
1½ and thicker, three uppers, Am. ins.	37 00
1½ and thicker, pickings, Am. ins.	18 00
1 x 10 and 12 dressing and better.	15 00 14 00
1 x 10 and 12 mill run.	14 00 16 00
1 x 10 and 12 dressing.	13 00 13 00
1 x 10 and 12 common.	10 00 11 00
1 x 10 and 12 spruce culls.	28 00 30 00
1 x 10 and 12 maple culls.	18 00 20 00
1 inch clear and picks.	14 00 15 00
1 inch dressing and better.	11 00 12 00
1 inch siding, mill run.	8 00 9 00
1 inch siding, common.	14 00 15 00
1 inch siding, ship culls.	10 00 11 00
1 inch siding, mill culls.	8 00 9 00
Cull scantling.	22 00 25 00
1½ and thicker cutting up plank.	14 00 15 00
1 inch strips, 4 in. to 8 in. mill run.	11 00 12 00
1 inch strips, common.	14 00 15 00
1½ inch flooring.	14 00 16 00
1½ inch flooring.	2 30 @ 2 35
XXX shingles, sawn.	1 30
XX shingles, sawn.	6 00
Eastlake galvanized steel shingles, 24 W. G., per square.	5 50
Eastlake galvanized steel shingles, 26 W. G., per square.	4 00
Eastlake painted steel shingles, per sq.	6 00
Round pointed galvanized steel shingles, per sq.	4 25
Round pointed painted steel shingles, per sq.	4 00
Round pointed, unpainted, Terne tin shingles, per sq.	5 00
Manitoba galvanized steel siding, per square.	3 50
Manitoba painted steel siding, per sq.	3 50
Painted sheet steel pressed brick.	3 50
Painted crimped steel sheeting.	3 40
Price of Copper shingles according to weight.	

YARD QUOTATIONS.

Mill cull boards and scantling.	10 00
Shipping cull boards, promiscuous widths.	13 00
Shipping cull boards, stocks.	14 00
Hemlock cantling and joist up to 16 ft.	11 00 12 00
" " " " 18 "	12 00 13 00
" " " " 20 "	13 00 14 00
Scantling and joist, up to 16 ft.	14 00
" " " " 18 ft.	15 00
" " " " 20 ft.	17 00
" " " " 22 ft.	19 00
" " " " 24 ft.	21 00
" " " " 26 ft.	23 00
" " " " 28 ft.	25 00
" " " " 30 ft.	27 00
" " " " 32 ft.	29 50
" " " " 34 ft.	31 00
" " " " 36 ft.	33 00
" " " " 38 ft.	35 00
" " " " 40 to 44 ft.	25 00 26 00
Cutting up planks, 1½ and thicker, dry board.	18 00 22 00
Cedar for block paving, per cord.	5 00
Cedar for Kerbing, 4 x 14, per M.	14 00

B. M.	
1½ inch flooring, dressed, F. M.	28 00 32 00
1½ inch flooring rough, B. M.	18 00 22 00
1½ " " dressed, F. M.	25 00 28 00
1½ " " undressed, B. M.	18 00 19 00
" " dressed.	18 00 22 00
" " undressed.	12 00 15 00
Beaded sheeting, dressed.	22 00 35 00
Clapboarding, dressed.	12 00
XXX sawn shingles, per M, 16 in.	2 65 2 75
Sawn lath.	2 00 2 20
Red oak.	30 00 40 00
White.	35 00 45 00
Basswood, No. 1 and 2.	18 00 20 05
Cherry, No. 1 and 2.	70 00 70 00
White ash, No. 1 and 2.	25 00 25 00
Black ash, No. 1 and 2.	20 00 30 00
Dressing stocks.	16 00 22 00
Picks, American inspection.	40 00
Three uppers, American inspection.	50 00

BRICK—M

Common Walling.	7 50
Good Facing.	9 00
Sewer.	8 50 9 00
Pressed Brick:	
Plain brick, f. o. b. at Milton, per M.	\$15 00
" " 2nd quality, per M.	13 00
" " 3rd " " " "	10 00
Hard Building.	8 00
Moulded and Ornamental, per 100.	\$3 to 10 00
First quality, f. o. b. at Campbellville, per M.	16 00
2nd " " " "	13 00
Ornamental, per 100.	\$3 to 10 00
Tiles.	24 00

Stono.	
Common Rubble, Per Tons, delivered	14 00
Large flat " "	18 00
Foundation Blocks, " Cubic Foot	35
Slate: Roofing (per square).	
" red.	16 00
" purple.	9 00
" untinting green.	9 00
" black slate.	7 50
Terra Cotta Tile, per sq.	25 00
Ornamental Black Slate Roofing	8 00

Sand:	
Per Load of 1½ Cubic Yards.	1 25

PAINTS. (In oil, per lb.)	
White lead, Can.	6 25 6 50
" zinc, Can.	6 50 7 50
Red lead, Eng.	5 50 6 50
" venetian.	1 60 1 75
" vermilion.	90 1 00
" Indian, Eng.	10 12
Yellow ochre.	5 10
Yellow chrome.	15 20
Green, chrome.	7 12
" Paris.	85 40

Table listing various materials and their prices, including Black lamp, Blue, ultramarine, Oil, linseed, raw, Putty, Whiting, Paris white Eng., dry, Litharge, Am., Sienna, burnt, Umber, CEMENT, LIME, etc., Lime, Per Barrel of 2 bushels, Grey, White, Plaster, Calcined, New Brunswick, Nova Scotia, Hair, Plasterers', per bag, Cement, Portland, per bbl., Thorold, Queenston, Napanec, Hull, HARDWARE, Cut Nails, American Pattern, Canadian Pattern, Steel nails, Finishing nails, MONTREAL PRICES, Lumber, etc., Ash, Birch, Basswood, Walnut, Butternut, Cedar, Cherry, Elm, Maple, Oak, Pine, Shipping Culls, Mill Culls, Lath, Spruce, Shingles, Cement, etc., Portland Cement, Roman, Fire Bricks, Cut Nails, Hot-cut Am. or Can. pattern, Patents, etc., White Lead, Venetian Red, yellow Ochre, French, Whiting, London, washed, Paris, Oils, Linseed, Olive, extra, pts., Spirits turpentine.

Table listing various trades and their representatives, including ARCHITECTURAL IRON WORK, Barnum Wire & Iron Works, B. Greening Wire Co., Dennis, R., Ives & Co., H. R., Toronto Drop Forge Co., Whitefield, John, BRASS WORKS, Mitchell & Co., Robt., BRICKS (PRESSED), Hynes Terra Cotta & Brick Co., Savage, R. D., Toronto Pressed Brick & Terra Cotta Co., The Ontario Terra Cotta, Brick & Sewer Pipe Co., BUILDERS' SUPPLIES, Adamant Mfg. Co., Hall & Son, McNally & Co., Rathbun Co., BUILDING STONE DEALERS, Britnell & Co., Bristol Bros., Gillespie & Brooks, Lyall, Peter, Rathbun Co., Savage, R. D., The Adjuda Quarry Co., Vokes Malcolm Stone Co., BUILDERS' HARDWARE, Aikenhead & Crombie, Byam Mfg. Co., Rice Lewis & Son., CEMENTS, Adamant Mfg. Co., McNally & Co., Wm., Maguire, William, McKae & Co., Rathbun Co., Savage, R. D., Terry, Edward, Wright & Sons, C. B., CHIMNEY TOPPING, Hansen, Harald M., CHURCH AND SCHOOL FURNITURE, Bennet Furnishing Co., Canadian Office & School Furniture Co., Pennington & Baker, CONTRACTORS AND BUILDERS, Davidson & Kelly, Davis, H., Davie, George, Dearing, Geo., Hood & Co., H., Grant & Goddard, Halls, Wm., Hancock, Thomas, Hannah Bros., Humphrey, T. R., Lyall, Peter, Marshall, John, Mortimore, Geo. T., Moss, Wm., Pudliff, Wm., Redmond, Joseph, Stevens, Chas. H., Thomas & Howell, Webb, John E., CUT STONE CONTRACTORS, Armstrong Bros., Hibbard, H. & T., Isaac Brothers, Johnson & Son, Wm., Oakley & Holmes, ELECTRIC BELLS, Canadian Electric Mfg. Co., ELEVATORS, Ives & Co., H. R., Leach & Turnbull, Miller Bros. & Toms, ENGRAVERS, Armstrong Photo-Eng. Co., Canadian Photo-Eng. Bureau, Kramer, W. J., Laidlaw, R., Toronto Engraving Co., Wisenian, James L., GALVANIZED IRON WORKS, Douglas Bros., Douglas & Haines, Douglas & Co., John, Baird Bros., Hedges & Lanlin, Ormsby, A. B., Tucker & Dillon, GRATES AND TILES, Earl & Co., Edward, Holbrook & Mollington, Rice Lewis & Son, Scott & Son, Wm., HEATING, Burrow Stewart & Milne, Clare Bros. & Co., Howard Furnace Co., King & Son, Warden, McClary Mfg. Co., McDougall & Co., R., Ormsby, A. B., Sellers & Co., C., Toronto Radiator Mfg Co., Waterous Engine Works.

Table listing various trades and their representatives, including GLASS BENDING, Poletto, T., IRON PIPE, Ives & Co., H. R., L.R.GAL., Denton & Dods, MANTELS AND OVERMANTELS, Earl & Co., Edward, Wright & Co., Scott & Son, Wm., METALLIC LATH, B. Greening Wire Co., MINERAL WOOL, Gast & Atchison, Savage, R. D., ORNAMENTAL PLASTERERS, Baker, J. D., Hynes Terra Cotta & Brick Co., Whetter, Henry R., Wright, Jas., PAINTERS, Dill & O'Hearn, Dunham, Frank T., Gilmore & Casey, Hatch, W. J., Poletto, T., Taylor, W. J., PAINTS, VARNISHES, &C., Cottingham, Walter H., Muirhead, Andrew, PAVING, Excelsior Pavement Co., Forsyth, Robert, Gardner & Co., A., Durox Cement Concrete Pavement Co., The Colman-Hamilton Co., PLASTERERS, Dayton, William H., Fox, R. B., Hynes, W. J., Magill, E. T., Watson Bros., PLATE GLASS, Lyon, N. T., McCausland & Son, Toronto Plate Glass Importing Co., PLUMBERS, Bennett & Wright, PLUMBING SUPPLIES, Booth & Son, Higman, O., Malcolm, W. B., Mitchell & Co., Robert, ROOFING MATERIALS, Can. Galvanizing & Steel Roofing Co., Merchant & Co., Metallic Roofing Co., ROOFERS, Baird Bros., Duthie & Sons, G., Forbes, Duncan, Hutson, W. D., Metallic Roofing Co., Ormsby, A. B., Rennie & Son, R., Sautler, Wm., Shales, John H., Stewart, W. T., The Parmalee Roofing & Paving Co., Toronto Roofing Co., Williams & Co., H., SAFES, Kimball, S., SANITARY APPLIANCES, Booth & Son, Earl & Co., Edward, Higman, O., Ives & Co., H. R., Malcolm, W. B., SEWER PIPE, Hamilton and Toronto Sewer Pipe Co., McNally & Co., W., McKae & Co., Terry, Edward, The Ontario Terra Cotta Pressed Brick & Sewer Pipe Co., The Colman-Hamilton Co., SLIDING BLINDS, Clatworthy, Geo., Savage, R. D., STAINED AND DECORATIVE GLASS, Castle & Son, Dominion Stained Glass Co., W. C. Barnes, Son & Gilson, Elliott & Son, Grimson, G. & J. E., Longhurst & Co., H., Lyon, N. T., McCausland & Son, Spence & Son, J. C., The Bell Art Stained Glass Works, TERRA COTTA, The Hynes Terra Cotta & Brick Co., Toronto Pressed Brick & Terra Cotta Co., The Ontario Terra Cotta, Brick & Sewer Pipe Co., TERRA COTTA LUMBER, Rathbun Co., WALL PAPER AND CEILING DECORATIONS, Elliott & Son, Staunton & Co., M.

INDEX TO ADVERTISEMENTS

Table listing advertisements and their page numbers: ADAMANT WALL PLASTER, Adamant Mfg. Co., ARCHITECTS, Directory, ARCHITECTURAL SCULPTORS AND CARVERS, Beaumont, H., Carnovsky, B. H., Gullet, F. B., Hicks, W. Stevens, Holbrook & Mollington, Johnson & Son, Wm., Mowbray, Thos., Turner Frederic, Young & Collins, ART FURNITURE, Scott & Son, W., Wright & Co.

Table listing advertisements and their page numbers: ARCHITECTURAL IRON WORK, Barnum Wire & Iron Works, B. Greening Wire Co., Dennis, R., Ives & Co., H. R., Toronto Drop Forge Co., Whitefield, John, BRASS WORKS, Mitchell & Co., Robt., BRICKS (PRESSED), Hynes Terra Cotta & Brick Co., Savage, R. D., Toronto Pressed Brick & Terra Cotta Co., The Ontario Terra Cotta, Brick & Sewer Pipe Co., BUILDERS' SUPPLIES, Adamant Mfg. Co., Hall & Son, McNally & Co., Rathbun Co., BUILDING STONE DEALERS, Britnell & Co., Bristol Bros., Gillespie & Brooks, Lyall, Peter, Rathbun Co., Savage, R. D., The Adjuda Quarry Co., Vokes Malcolm Stone Co., BUILDERS' HARDWARE, Aikenhead & Crombie, Byam Mfg. Co., Rice Lewis & Son., CEMENTS, Adamant Mfg. Co., McNally & Co., Wm., Maguire, William, McKae & Co., Rathbun Co., Savage, R. D., Terry, Edward, Wright & Sons, C. B., CHIMNEY TOPPING, Hansen, Harald M., CHURCH AND SCHOOL FURNITURE, Bennet Furnishing Co., Canadian Office & School Furniture Co., Pennington & Baker, CONTRACTORS AND BUILDERS, Davidson & Kelly, Davis, H., Davie, George, Dearing, Geo., Hood & Co., H., Grant & Goddard, Halls, Wm., Hancock, Thomas, Hannah Bros., Humphrey, T. R., Lyall, Peter, Marshall, John, Mortimore, Geo. T., Moss, Wm., Pudliff, Wm., Redmond, Joseph, Stevens, Chas. H., Thomas & Howell, Webb, John E., CUT STONE CONTRACTORS, Armstrong Bros., Hibbard, H. & T., Isaac Brothers, Johnson & Son, Wm., Oakley & Holmes, ELECTRIC BELLS, Canadian Electric Mfg. Co., ELEVATORS, Ives & Co., H. R., Leach & Turnbull, Miller Bros. & Toms, ENGRAVERS, Armstrong Photo-Eng. Co., Canadian Photo-Eng. Bureau, Kramer, W. J., Laidlaw, R., Toronto Engraving Co., Wisenian, James L., GALVANIZED IRON WORKS, Douglas Bros., Douglas & Haines, Douglas & Co., John, Baird Bros., Hedges & Lanlin, Ormsby, A. B., Tucker & Dillon, GRATES AND TILES, Earl & Co., Edward, Holbrook & Mollington, Rice Lewis & Son, Scott & Son, Wm., HEATING, Burrow Stewart & Milne, Clare Bros. & Co., Howard Furnace Co., King & Son, Warden, McClary Mfg. Co., McDougall & Co., R., Ormsby, A. B., Sellers & Co., C., Toronto Radiator Mfg Co., Waterous Engine Works.

Table listing advertisements and their page numbers: GLASS BENDING, Poletto, T., IRON PIPE, Ives & Co., H. R., L.R.GAL., Denton & Dods, MANTELS AND OVERMANTELS, Earl & Co., Edward, Wright & Co., Scott & Son, Wm., METALLIC LATH, B. Greening Wire Co., MINERAL WOOL, Gast & Atchison, Savage, R. D., ORNAMENTAL PLASTERERS, Baker, J. D., Hynes Terra Cotta & Brick Co., Whetter, Henry R., Wright, Jas., PAINTERS, Dill & O'Hearn, Dunham, Frank T., Gilmore & Casey, Hatch, W. J., Poletto, T., Taylor, W. J., PAINTS, VARNISHES, &C., Cottingham, Walter H., Muirhead, Andrew, PAVING, Excelsior Pavement Co., Forsyth, Robert, Gardner & Co., A., Durox Cement Concrete Pavement Co., The Colman-Hamilton Co., PLASTERERS, Dayton, William H., Fox, R. B., Hynes, W. J., Magill, E. T., Watson Bros., PLATE GLASS, Lyon, N. T., McCausland & Son, Toronto Plate Glass Importing Co., PLUMBERS, Bennett & Wright, PLUMBING SUPPLIES, Booth & Son, Higman, O., Malcolm, W. B., Mitchell & Co., Robert, ROOFING MATERIALS, Can. Galvanizing & Steel Roofing Co., Merchant & Co., Metallic Roofing Co., ROOFERS, Baird Bros., Duthie & Sons, G., Forbes, Duncan, Hutson, W. D., Metallic Roofing Co., Ormsby, A. B., Rennie & Son, R., Sautler, Wm., Shales, John H., Stewart, W. T., The Parmalee Roofing & Paving Co., Toronto Roofing Co., Williams & Co., H., SAFES, Kimball, S., SANITARY APPLIANCES, Booth & Son, Earl & Co., Edward, Higman, O., Ives & Co., H. R., Malcolm, W. B., SEWER PIPE, Hamilton and Toronto Sewer Pipe Co., McNally & Co., W., McKae & Co., Terry, Edward, The Ontario Terra Cotta Pressed Brick & Sewer Pipe Co., The Colman-Hamilton Co., SLIDING BLINDS, Clatworthy, Geo., Savage, R. D., STAINED AND DECORATIVE GLASS, Castle & Son, Dominion Stained Glass Co., W. C. Barnes, Son & Gilson, Elliott & Son, Grimson, G. & J. E., Longhurst & Co., H., Lyon, N. T., McCausland & Son, Spence & Son, J. C., The Bell Art Stained Glass Works, TERRA COTTA, The Hynes Terra Cotta & Brick Co., Toronto Pressed Brick & Terra Cotta Co., The Ontario Terra Cotta, Brick & Sewer Pipe Co., TERRA COTTA LUMBER, Rathbun Co., WALL PAPER AND CEILING DECORATIONS, Elliott & Son, Staunton & Co., M.