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# CANADIAN CONTRACT RECORD

A Weekly Journal of Advance Information and Public Works.

ITS PURPOSE: TO SUPPLY TO CONTRACTORS ADVANCE INFORMATION RESPECTING CONTRACTS OPEN TO TENDER, AND TO ARCHITECTS, ENGINEERS, MUNICIPAL AND OTHER CORPORATIONS, A DIRECT MEDIUM OF COMMUNICATION WITH CONTRACTORS

ITS MERRIT: ECONOMICAL AND EFFECTIVE SERVICE.

Vol. 2.

Toronto and Montreal, Canada, December 19, 1891.

No. 45

## 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.  
Telephone 2362.

64 Temple Building, Montreal.  
Bell Telephone 2299.

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

### 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 following resolution was unanimously adopted at the First Annual Meeting of the Province of Quebec Association of Architects, held in Montreal, Oct. 10th and 11th, 1890: "Moved by M. Perrault, seconded by A. F. Dunlop, that we the Architects of the Province of Quebec now assembled in Convention being satisfied that the CANADIAN CONTRACT RECORD affords us a direct communication with the Contractors, Resolved, that we pledge our support to it by using its columns when calling for Tenders."

The publisher 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.

## To Gasfitters & Plumbers

Sealed tenders addressed to the undersigned for supplying and fixing the

Gas Piping, Water Mains and Appliances for Fire Protection, and Wires for Electric Light,

for the Oxford County Court House, will be received up till the

28TH DECEMBER INSTANT.

Plans and specifications can be seen and information obtained from the Architects, Messrs. Cuthbertson & Fowler, at their office in Woodstock.

JAMES WHITE,  
County Clerk.

Woodstock, December 1st, 1891

## TO CONTRACTORS

Sealed tenders, separate or in bulk, will be received by the undersigned up to 11 o'clock noon on Tuesday, 29th inst., 1891, for the masonry, carpenter and joiner's work, slating, lathing and plastering, painting, heating and ventilation and leaded stained glass windows required in the erection and completion of a brick church edifice at Glencoe.

Plans and specifications can be seen at the Methodist parsonage, Glencoe, also at the office of M. I. Buff, architect, Richmond street, London. The lowest or any tender not necessarily accepted.

Rev. W. W. EDWARDS,  
Cor. Secretary



## Notice to Contractors

Tenders will be received by registered post addressed to the City Engineer, Toronto, up till 11 o'clock a.m., of the 29TH DAY OF DECEMBER, for the supply of

## Sewer Pipes and Wrought and Cast Iron Work

FOR THE YEAR ENDING DECEMBER 31ST, 1892.

Specifications and forms of tender can be obtained at the office of the City Engineer on and after the 14th day of December, 1891.

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 specification), 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, Dec. 8th, 1891.



## NOTICE TO CONTRACTORS.

Tenders will be received by registered post, addressed to the City Engineer, Toronto, up to 11 o'clock a.m. on TUESDAY, DECEMBER 29TH, 1891, for the construction of

### A CEDAR BLOCK PAVEMENT

On Ossington Avenue, from Bloor street to the C. P. Railway tracks.

Plans can be seen and forms of tender obtained at the City Engineer's office on and after the 23rd day of December, 1891.

A deposit in the form of a marked cheque, payable to the order of the City Treasurer, for the sum of 2½ per cent. on the value of the work tendered for, 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.

JOHN SHAW,  
Chairman, Committee on Works.

Committee Room, Toronto, Dec. 15, 1891.

## TO CONTRACTORS

Sealed tenders addressed to the undersigned will be received until

Thursday, 24th December, 1891,

for the grading and other work required in building a Branch Line from the Boston and Maine Railroad to our quarries, a distance of two and one-eighth (2¼) miles.

Plans and specifications can be seen at our office, Berbe Plain, P. Q., after Thursday, the 10th inst.

The lowest or any tender not necessarily accepted.

THE MOIR GRANITE CO.,  
Geo. H. House, Sec.-Treas.



## NOTICE TO CONTRACTORS.

Tenders for the Annual Supplies for 1892.

Tenders will be received by registered post, addressed to the City Engineer, Toronto, up to 11 o'clock a.m. on TUESDAY, DECEMBER 29TH, 1891, for the following supplies for the year ending December 31st, 1892:—

COBBLE STONE,  
MACADAM,  
TAMARAC BLOCKS,  
LUMBER,  
SAND AND GRAVEL,  
LOAM,  
CEDAR POSTS,  
CEDAR KERBING,  
SPIKES AND NAILS.

Forms of tender obtained on and after December 22nd, 1891, at the office of the City Engineer.

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.

JOHN SHAW,  
Chairman Committee on Works.  
Committee Room, Toronto, Dec. 18th, 1891.

The earliest windows were probably those of the Saxons. In Germany according to Tacitus, their houses were, in the first century, built of rude, unshapen timbers, some parts being coated with a kind of plaster. All the houses were detached for security against fire. From a manuscript in the Cotton collection, marked "Cleopatra, C. VIII," which Strutt refers to the latter part of the ninth century, the author reproduces a representation of an Anglo-Saxon house, probably built of wood, the stories not overhanging as they do in Norman structures. The windows are rectangular, and apparently about the same proportionate width and height as our modern sash windows. From the absence of mullions and transoms, we may infer that there was no glass, although glazing had already been introduced into England, having according to William of Malmesbury, been brought from Rome by Benedict Biscop in A. D. 668.

## CONTRACTS OPEN.

**MILTON, ONT.**—The old Knox church is to be converted into a drill shed and armory.

**KINGSTON, ONT.**—Several new cottages are to be built this winter at Thousand Island Park.

**NAPANEE, ONT.**—A new residence is to be erected for the caretaker of the jail, at a cost of \$1,600.

**CARLTON PLACE, ONT.**—The Church of England congregation will erect a \$2,000 rectory next spring.

**PRINCE ALBERT, N. W. T.**—Tenders are invited for the erection of a new town hall. The building is to cost \$10,000.

**STAMFORD, QUE.**—At a joint meeting of the Council and High School Board, it was decided to put the school in better condition.

**STRATFORD, ONT.**—Alex. Hepburn, architect, is calling for tenders for the erection of a brick church. Tenders received until 8th January, 1892.

**PORT COLBORNE, ONT.**—A glass company is being organized with a capital stock of \$100,000. Buildings and furnaces are to be erected at a cost of \$12,000.

**HALIFAX, N. S.**—The City Council have decided upon the construction of sewers on Jubilee road and Louisburg street, at an estimated cost of \$12,000.

**KINGSVILLE, ONT.**—Plans are being prepared by Mr. Maycock for a residence for Mr. Curtis Green. Work will be commenced in the spring. Cost \$3,000.

**MARKHAM, ONT.**—The High School Board have decided on building a new school. The plans are being prepared by Mr. Whitehead, architect, Toronto.

**MONCTON, N. B.**—On Saturday last a gale blew down three spans of a bridge connecting Albert and Westmoreland Counties. The bridge cost \$6,000 and is 1,660 feet long.

**PORT ARTHUR, ONT.**—The Belgian Bank recently purchased the Antihokan iron range. During the coming year they will build a railway through the district, and construct rolling mills and furnaces.

**OWEN SOUND, ONT.**—The Hurd-Brandon Mfg. Co. have written the council asking what inducements they will offer them to establish a factory in the town. The company would erect a building to cost \$20,000.

**RIGAND, QUE.**—J. N. Lifebore, Sec. Treas., will receive tenders until 8 p.m. of the 22nd day of December for the construction of a gravity system of water works. Plans at office of J. Emile Vanter, 107 St. James St., Montreal.

**WINNIPEG, MAN.**—Mr. Garden, C.P.R. engineer, has recently been engaged in making survey and preparing estimates for the erection of new steel bridges to take the place of the temporary ones now in use between Donald and Golden, B. C.

**BROCKVILLE, ONT.**—On the 4th of January the ratepayers will vote on a by-law to grant a bonus of \$50,000 to the Brockville Carriage Co. for the establishment of works in this town. The agreement states that the company shall erect a substantial brick store building to cost not less than \$30,000.

**VANCOUVER, B. C.**—Messrs. Robertson & Hackett, builders and contractors, have purchased the two lots adjoining their sash and door factory on Seymour St., and intend to erect new buildings thereon. Tenders are now being called for the excavation of the addition to the Vancouver hotel. Building will commence in the spring.

**HAMILTON, ONT.**—Building permits have been granted as follows: E. Lindner, six 2-story bk. dwellings, Wilson St., between Cathcart and Wellington Sts., cost \$0,000; Wm. Peebles, 2-story bk. dwelling, Cannon St., between Emerald and Tisdale Sts., cost \$1,100; H. Griffin, four 2-story bk. dwellings, Tiffany St., between Barton and Stuart Sts., cost \$2,000.

**ST. JOHN, N.B.**—Tenders will be received by the Department of Public Works until Monday, the 11th day of January, 1892, for all work in connection with the proposed extension of South Rodney wharf, including dredging and building of wharf and warehouses. Plans at office of Hurd Peters, C. E.—The bolt and nut works company have decided to rebuild their works at once.

**SHERBROOKE, QUE.**—Mr. Wm. Griffith, Sec. Treas., will receive tenders until the 29th inst. for the supply of the following quantities of lumber: 29,000 ft. 2 in. spruce plank, 4 ft. long, B. M.; 28,700 ft. 2 in. spruce plank, 5 ft. long; 10,000 ft. 2 in. spruce plank, 6 ft. long; 5,000 ft. 2 in. spruce plank, 15 ft. long; 5,000 ft. 2 in. spruce plank, 16 ft. long; 21,000 ft. 3 in. spruce plank, 25 ft. long; 9,000 ft. 3 in. hemlock plank 15 ft. long; 27,000 ft. 5 x 5 hemlock joists not less than 12 ft. long.

**OTTAWA, ONT.**—The time for the reception of tenders for the erection of a post office at Petrolia has been extended until Tuesday, 29th inst.—The Government has appropriated the sum of \$25,000 for the establishment of a fish hatchery in the vicinity of Clayton, Ont.—The ratepayers will vote on a by-law on the 4th of January to grant the sum of \$25,000 for the following purposes: Rebuilding a bridge across the Rideau river near the site of Cummings' bridge, \$15,000, improvements on Wellington street, at Pooley's bridge, \$8,000; improvements on Sparks street, at Christ church, \$2,000.—A company will apply for incorporation at the next session of Parliament to build a railway from Carp to Sharbot Lake, passing through Almonte and Lanark. The distance is about 50 miles.—Drains are to be constructed on Victoria avenue, Queen and Albert streets.—The Railways and Canals Department will shortly call for tenders for the construction of the first three sections of the new Soulanges canal.

**MONTREAL, QUE.**—Plans are now ready for the opening of Rouville street, from Darling to St. Germain streets. The street is to be sixty feet wide.—The council are considering the widening of Guy street, between Dorchester and Notre Dame streets.—Mr. W. Hardie, has granted a piece of land to the Montreal Presbytery on which to erect a new Presbyterian church for Montreal South and Longueuil.—The Harbor Commissioners will receive tenders until the 5th day of January for supplying the following plant, two light locomotives, either for steam or electricity; fifty small car trucks; light rails for two and one-half miles of track; machinery for one pile driver. They will also receive tenders until the 29th inst. for the supply of 250,000 feet B. M. of hemlock plank.—Building permits have been granted as follows: John E. Chaffersone, 3-story bk. and stone dwelling, St. Catherine st., G. Simard architect; mason, M. Glarneau; Allard & Co., carpenters; cost \$4,000; Frs. Deslonchamps, 3-story bk. and stone dwelling, Amherst st., cost \$1,300; John Hays, 2-story bk. and stone dwelling, Bourgeois st., John Galloway, builder; A. Adeline, three 2-story bk. and stone dwellings, corner St. Catherine and Charlevoix sts., J. H. Bernard, architect; cost \$5,400; M. B. Odell, 2-story bk. and stone dwelling, Coleraine st., cost \$2,000; G. H. Robinson, two 2-story bk. and stone dwellings, Crescent st., cost \$14,000. The C. P. R. will expend \$360,000 in improving the line between Montreal and Quebec in the direction of increased station accommodation, sidings, and the substitution of iron for wooden bridges, and to build grain elevators at Quebec and Three Rivers.

**TORONTO, ONT.**—The Markets and License Committee will ask the city council for an appropriation of \$1,500 for leveling the additional property of the western cattle market. A sewer will also be constructed to drain the land.—Wm. Roaf, Hon. Secretary Collegiate Institute Board, will receive tenders until noon of Monday, 21st inst., for the supply of blinds for their new building on Harbor street.—The City Engineer has recommended the construction of the following works: The extension of the Parliament street

sewer 312 feet into the bay, at an approximate cost of \$4,000; the construction of a 12-foot cement concrete sidewalk on the east side of Bay street, from King to Wellington street, and from King street to Adelaide street, cost \$3,570; the construction of a 30-foot square tannery pavement, on a concrete foundation, with stone kerbing, on Roxborough avenue, from Yonge street to a point 1,339 feet westerly, at a cost of \$15,000.—Prof. Loudon has asked the Water Works Committee that a better supply of water be provided at Toronto University by the construction of a 12-inch main from Bloor street down Avenue road to the Parliament Buildings, at a cost of \$2,000.—Mr. W. Clyma, 4 Wallace avenue, wants tenders for brickwork addition to factory and concrete cellar on Sherbourne street.—Hon. C. H. Tupper, accompanied by Col. Anderson, chief engineer of the Department of Marine, recently inspected the site offered by the university authorities on Hoskin avenue for the removal of the observatory.—Building permits have been granted as follows: Chas. Plant, one pr. s. d. 2-story and attic bk. dwellings, south side Langley Ave., cost \$3,600; Josiah Blackwell, three det. 2-story and attic bk. dwellings, south side Walker Ave., cost \$1,500; Geo. Marshall, one pr. s. d. 2-story bk. dwellings, west side Manning Ave., cost \$2,000; Geo. A. Cox, alterations to building north-west corner King and Victoria Sts., also two 1-story bk. offices on Victoria St., cost \$1,600; Wm. Belshaw, five 2-story bk. front dwellings, south side Wilton Ave., east of Sackville St., also twelve houses in rear, cost \$19,500.—E. Sexton is excavating for eight stores with dwellings on the corner of College St. and Brunswick Ave., cost \$40,000, also for four cut stone front pressed-brick dwellings, north of College on Brunswick Ave., cost \$20,000. Contract not yet awarded.—Wm. Mitchell is excavating for one detached and one pair semi-detached dwellings on north-west cor. Euclid Ave. and Lennox St., cost \$4,000 each. Contract not let.

## FIRES.

The following buildings were destroyed by fire at Moose Jaw, N.W.T., on the 12th inst.: T. B. Baker, Foley block; Mrs. McFall millinery; Jackman & McVannet, hotel; Felix Plants, general store; W. McBride, boots and shoes; J. McCauley, jeweller; Mr. Tilden, residence and bakery; W. W. Bole, drugs and stationary; W. Doran, harness and saddlery; T. E. Williams, Queen's hotel; P. Catter, barber; James Hood, boots and shoes; G. M. Annable, storeroom, O. Fields, billiard room.—The Calgary, Edmonton railway storeroom at Calgary, N.W.T., was burned on the 12th inst. Loss \$5,000.—The Neelung hotel at West Fort William, Ont., was destroyed by fire on the 13th inst. It was owned by the C. P. R. Co.—The Michigan Central railroad depot at Petrolia, Ont., was burned on the 16th inst.—The Kingston Gas Co.'s works at Kingston, Ont., were damaged to the extent of \$9,000 on the 16th inst.—A row of houses erected a short time ago at the mouth of the Humber river near Toronto were destroyed by fire on Wednesday last. The buildings were owned by Mr. West. Loss \$10,000.

## CONTRACTS AWARDED.

**OAKVILLE, ONT.**—The Ball Electric Light Co. have the contract for the plant here.

**HAMILTON, ONT.**—Wm. Metson has been awarded the contract for improvements to the Court House.

**GUELPH, ONT.**—The Silica Barytic Stone Co. have the contract to construct floors in Huether's brewery, Waterloo.

**QUEBEC, QUE.**—The C. P. R. have awarded the contract to Messrs. Peters & Sons for the erection of their proposed hotel.

**STRATFORD, ONT.**—Mr. W. J. Morrison, of the Fort Wayne Electric Company, has the contract to put in an incandescent plant for the Stratford company.

**OTTAWA, ONT.**—Messrs. Henry & Smith are the successful tenderers for the deepening of the

canal next the old Bywash and the building of a new dry dock.—Contracts for the erection of St. Joseph's Church, have been awarded as follows: Masonry and brickwork, Turcot & Martineau; balance of work, Payette & Goelbout; W. E. Dorn, architect.

TORONTO, ONT. The Board of Works have awarded contracts for sewers as follows: Gore Vale Ave., College St. to Garrison creek, J. H. McKnight, \$1,145; O'Hara Ave., present terminus to railway tracks, J. Farley, \$478; Carlyle Ave., Perth Ave. to west end, J. Farley, \$513; Pears Ave., Avenue road to Bedford road, J. Farley, \$6,313.

WINNIPEG, MAN.—Contract for sewer pipe to be used in the extension of the city water works system has been let to Kelly Bros. & Co., of this city, at the following prices:

Table with 4 columns: Diameter, Number, Lin. ft., Price. Lists various pipe specifications and their costs.

LAMINATED BEAMS.

The roof of the Leeds Town Hall, designed by Mr. Cuthbert Broderick, is noticeable for the absence of tie-beams, which allows of the ceiling of the hall being brought nearer to the exterior of the roof than is usually the case. The roof consists of eight sets of principals framed together. Each principal consists of a semi-circular laminated rib, formed of twelve 1 1/2-inch planks, 9 inches wide, nailed together and fastened with wrought-iron bolts and straps. They are placed in couples and stand immediately over each of the columns in the hall. They are respectively 4 ft. and 18 ft. apart. The width of the room is 71 ft., and the springing of the ribs 53 ft. from the ground. The entire height to the top of the roof is 99 ft., the hall being 73 ft. high in the clear. This system of roof has been adopted more frequently in France than in England. The laminated rib is the invention of a French engineer. It was first suggested for a bridge over the Rhine in the year 1811. Several years later M. Emy constructed several roofs on this plan, but all his roofs, being very near to the ground at their springing and without ceilings, are consequently much more manageable than the roof of the town hall, which has a very elaborate plaster ceiling attached to it, and the springing is at a considerable distance from the ground. Precaution had to be taken to insert several additional struts and braces as a preventive against any change of form or outward thrust. Both these points have been attended with the most complete success there being not the least perceptible outward thrust or change of form. The later fact was proved very satisfactorily by the plasterers, who were enabled to run the mouldings on the ceiling from the centre. The brackets for these mouldings were not gauged from a centre, but fastened to the ribs according to their sizes. If the principal of these laminated ribs were better understood, observes a writer in the Architect, it is possible that many of our architects would adopt it instead of depending on three or four overstrained joints for one tie.

As to what would be the average weights of loads upon the floors of various structures, excluding that of the floor itself, a journal says. For street bridges, about eighty pounds per square foot; floors of dwellings, forty; churches, theaters and ball rooms, eighty; warehouses and merchandise stores, 250; factories, 200 to 400.

TO BUILDERS. ALEX. MACLEAN, 9 Victoria Street, Toronto.

Offers to builders, on advantageous terms, lots on Elizabeth St., Westmoreland Ave., Spencer Ave., Shaw St., Wellesley St. and Spadina road.

To Builders, Investors and Speculators.

Offers are invited to purchase that magnificent business site at the intersection of Dundas and Arthur streets and Ossington Ave. The lot has a frontage of 100 feet on Dundas and 120 feet on Arthur St., and is undoubtedly the best business corner west of Yonge St. Offers to be sent to F. J. Smith & Co., Estate Agents, 90 Church St.

J. A. NESBITT, ESTATE AND FINANCIAL AGENT AND ARBITRATOR.

Office: 9 Adelaide St. East, - TORONTO. Office Telephone 1631. House Telephone 3692. Money advanced on mortgage. Fire insurance at lowest rates. Values carefully estimated.

W. PARSONS, NO. 4 ADELAIDE ST. EAST, TORONTO. Estate, Loan and Builders' Exchange.

I make a specialty of builders' loans and builders' properties. Money to loan. Telephone 2636. W. PARSONS.

Prices of Building Materials.

LUMBER.

Table listing lumber prices for various types of wood, including clear picks, mill run, and different grades of siding and shingles.

Metallic Roofing Co. of Canada:

Table listing prices for various roofing materials, including Eastlake steel shingles, Broad Rib Roofing, and Metallic Terra Cotta Tiles.

Canada Galvanizing & Steel Roofing Co.:

Table listing prices for galvanized iron and steel roofing products, including Corrugated Iron and Broad Rib Roofing.

YARD QUOTATIONS.

Table listing yard quotations for various materials like Mill cull boards, Shipping cull boards, Hemlock cantling, and cutting up planks.

B. M.

Table listing prices for various types of flooring and sheathing, including 1 1/2 inch flooring, headed sheathing, and clapboarding.

BRICK—M

Table listing prices for Common Walling, Good Facing, and Sewer pipes.

Pressed Brick

Table listing prices for various types of pressed bricks, including Plain brick, Hard Building, and Ornamental.

Stone.

Table listing prices for Common Rubble, Large flat, and Foundation Blocks.

Slate: Roofing (per square).

Table listing prices for different types of slate used for roofing, including red, purple, and black slate.

Sand:

Table listing price for Per Load of 1 1/2 Cubic Yards.

PAINTS. (In oil, per lb.)

Table listing prices for various types of paint, including White lead, Red lead, Vermillion, and Yellow ochre.

CEMENT, LIME, etc.

Table listing prices for Lime, Plaster, Hair Plaster, and Cement.

HARDWARE.

Table listing prices for various hardware items like American Pattern nails, Canadian Pattern nails, and Finishing nails.

MONTREAL PRICES.

Table listing various commodities and their prices, including Lumber, Portland Cements, Sandstones, Cut Nails, Paints, Oils, and various building materials.

INDEX TO ADVERTISEMENTS

IN THE CANADIAN ARCHITECT AND BUILDER.

Table listing various professional services and their corresponding page numbers, including Architects, Sculptors, Iron Work, Art Woodwork, Bellhanger, Bent Glass Manufacturers, Bricks, Builders' Supplies, Church and School Furniture, Chimney Topping, Consulting Engineer, Contractors and Builders, Cut Stone Contractors, Electric Lighting, Derrick Builders, Elevators, Engravers, Fire Brick and Clay, Galvanized Iron Works, Iron Fences, Iron Pipe, Lime and Stone, Legal, Mantels and Overmantels, Metallic Lath, Mortar Colors and Shingle Stains, Ornamental Plasterers, Paints, Plasterers, Plastering Fibre, Plate Glass, Plumbers, Plumbing Supplies, Roofing Materials, Sanitary Appliances, Roofers, Sash Balance, Sewer Pipe, Sliding Blinds, Stained and Decorative Glass, Tower Clocks and Bells, Wall Paper and Ceiling Decorations, Wall Plaster, and Wall Tie.

BUILDING STONE DEALERS.

Table listing Building Stone Dealers and their page numbers.

CHURCH AND SCHOOL FURNITURE.

Table listing Church and School Furniture dealers and their page numbers.

CHIMNEY TOPPING.

Table listing Chimney Topping services and their page numbers.

CONSULTING ENGINEER.

Table listing Consulting Engineers and their page numbers.

CONTRACTORS AND BUILDERS.

Table listing Contractors and Builders and their page numbers.

CUT STONE CONTRACTORS.

Table listing Cut Stone Contractors and their page numbers.

ELECTRIC LIGHTING.

Table listing Electric Lighting services and their page numbers.

DERRICK BUILDERS.

Table listing Derrick Builders and their page numbers.

ELEVATORS.

Table listing Elevators and their page numbers.

ENGRAVERS.

Table listing Engravers and their page numbers.

FIRE BRICK AND CLAY.

Table listing Fire Brick and Clay services and their page numbers.

GALVANIZED IRON WORKS.

Table listing Galvanized Iron Works and their page numbers.

GRATES AND TILES.

Table listing Grates and Tiles and their page numbers.

HEATING.

Table listing Heating services and their page numbers.

IRON FENCES.

Table listing Iron Fences and their page numbers.

IRON PIPE.

Table listing Iron Pipe and their page numbers.

LIME AND STONE.

Table listing Lime and Stone and their page numbers.

LEGAL.

Table listing Legal services and their page numbers.

MANTELS AND OVERMANTELS.

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