

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.

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

Additional comments: /  
Commentaires supplémentaires:

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

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

# CANADIAN CONTRACT RECORD

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

EVERY THURSDAY

THIS PAPER REACHES EVERY WEEK THE TOWN AND CITY CLERKS, TOWN AND CITY ENGINEERS, COUNTY CLERKS AND COUNTY ENGINEERS THROUGHOUT CANADA.

Vol. 5.

NOVEMBER 15, 1894

No. 41

## THE CANADIAN CONTRACT RECORD,

PUBLISHED EVERY THURSDAY

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,

CONFEDERATION LIFE BUILDING, TORONTO.  
Telephone 2362.

New York Life Insurance 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."

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

## Notice to Contractors

### CANADIAN CONTRACTOR'S HAND-BOOK

A new and thoroughly revised edition of the Canadian Contractor's Hand-Book, consisting of 150 pages of the most carefully selected material, is now ready, and will be sent post-paid to any address in Canada on receipt of price. This book should be in the hands of every architect, builder and contractor who desires to have readily accessible and properly authenticated information on a wide variety of subjects adapted to his daily requirements.

Price, \$1.50; to subscribers of the CANADIAN ARCHITECT AND BUILDER, \$1.00. Address

C. H. MORTIMER, Publisher,  
Confederation Life Building, TORONTO.

## TO CONTRACTORS

The Committee of the House of Refuge, Co. Huron, will receive sealed tenders, bulk or separate, until noon on FRIDAY, NOVEMBER 30TH, 1894, for the erection of a

### HOUSE OF REFUGE AT CLINTON, ONT.

Plans and specifications can be seen and all information obtained at the office of A. McMurchie, Esq., Reeve, at Clinton, Ont., or at the offices of Messrs. Fowler & Fowler, Toronto and Woodstock.

Tenders are to be sent in on forms provided and to be addressed, marked "tender," to

W. PROUDFOOT,

Chairman of Committee, House of Refuge,  
Goderich, Ont.



## Notice to Contractors

### TENDERS FOR ANNUAL SUPPLIES.

Tenders will be received by registered post, addressed to the City Engineer, Toronto, up to eleven o'clock a.m. on NOVEMBER 24, 1894, for the following supplies for the year ending December, 1895:—

LUMBER,  
PIT GRAVEL,  
SAND,  
CEDAR PAVING POSTS,  
HARDWARE, ETC.,  
WIRE NAILS,  
SEWER PIPE,  
HORSE FEED,  
CASTINGS.

Specifications may be seen and forms of tender obtained at the office of the City Engineer, Toronto, on and after the 17th November, 1894.

A marked cheque payable to the order of the City Treasurer, Toronto, for 5 per cent. of the amount tendered for must accompany each and every tender, otherwise it shall be ruled out as informal.

The lowest or any tender not necessarily accepted.

DANIEL LAMB,

Chairman of Committee on Works,  
Committee Room, Toronto, Nov. 12, 1894.

### BUSINESS NOTES.

St. Denis & Co. will, in future, carry on business in Montreal as plasterers.

Kelly Bros. have formed a partnership in Montreal as general contractors.

Depatie & Lepine is a new firm of plasterers recently formed to carry on business in Montreal.

H. Phillon & Co., sash and door manufacturers, Ottawa, Ont., have dissolved partnership. The business will be continued by Alphonse N. Phillon.

F. X. Simoneau, contractor and manufacturer of sashes and doors, at Sherbrooke, Que., is in financial difficulties. His liabilities are placed at \$6,000.

A partnership has been registered by R. R. Dobell, Lorenzo Evans and W. M. Dobell, lumber merchants, Quebec, under the style of (Dobell, Beckett & Co.,) and in London and elsewhere in England as Richd. R. Dobell & Co.

### CONTRACTS OPEN.

NORTH HEATLEY, ONT.—Jos. Julien intends erecting a new residence.

DUNROBIN, ONT.—Work is shortly to be commenced on a new Anglican church, to cost \$3,000.

PRESTON, ONT.—It is understood that S. J. Cherry will rebuild his grist mill recently burned.

KARS, ONT.—The Methodists will erect a new church here next spring. Rev. Mr. Gibson, Pastor.

ST. PAUL DE CHESTER, QUE.—A new Roman Catholic church is to be erected here, at a cost of \$30,000.

SAULT STE MARIE, ONT.—The C. P. R. will extend a branch line to the rapids and will build docks along the river shore.

COLLINGWOOD, ONT.—Wilson Bros. are building a three-storey brick addition to their planing factory, 45 x 46 feet in size.

PARRSHOR, N. S.—A local company will shortly apply to the Town Council for authority to install and operate an electric light plant.

WINDSOR, ONT.—The Water Commissioners have recommended filtration as the best system of water supply. The cost is estimated at \$30,000.

WHITBY, ONT.—Thomas Deverill proposes erecting a new hotel upon the present site of the Armstrong house. Work will not be commenced until the spring.

WINNIPEG, MAN.—There is a possibility of the capacity of the Northwest Electric Light Company's works being increased next year, at an estimated cost of \$40,000.

BEAMSVILLE, ONT. R. Van Norman, Town Clerk is inviting tenders on behalf of the corporation until the 20th inst. for the purchase of \$13,000 of waterworks debentures.

TORONTO JUNCTION, ONT.—Mr. Westcott, proprietor of the Peacock Hotel, is having plans prepared for the enlargement of his stables and for a banquet hall in rear of the hotel.

WALKERVILLE, ONT.—Hiram Walker & Sons have had plans prepared for the proposed creamery. It will be 136 x 40 feet, two stories high, and will be equipped with modern machinery.

HULL, QUE.—The large pork packing establishment of George Matthews & Sons is to be removed from Peterboro' to this city. Two large factories will be constructed, at a total cost of \$100,000.

AYLMER, QUE.—E. J. Ramboth, who has the contract for constructing a system of waterworks for the town, is organizing a company and making arrangements to commence work in the early spring.

TRURO, N. S.—Some Upper Canadian railway capitalists have lately been looking over the route of the proposed Hants Central Railway, with a view of building the road. The proposed line extends from Truro to Windsor by way of Maitland.

HINTONBURG, ONT.—The Methodists have purchased a lot on which to erect a new church, with a seating capacity of 250. It will be built to permit of an extension when sufficient funds are forthcoming.

ST. JOHNS, N.F.L.D.—Building operations have been closed down for the season. The city is not nearly rebuilt, a number of business establishments having yet to be erected. The custom house and court house have not been commenced.

YARMOUTH, N. S.—Tenders are invited until Friday, the 30th inst., for supplying 280,000 ties and 100,000 fence posts, sills and braces, also for the construction of 90 miles of fencing on the line of the Coast Railway. Address, A. H. Chadbourne, Supt. Construction, Nova Scotia Development Co.

KINGSTON, ONT.—John Aylesworth, inspector of roads and bridges for the Ontario Government, recently visited the site of the proposed Howe Island bridge, near this city. Should the Dominion Government agree to build the bridge, it is probable that the Ontario Government will make a grant towards its construction.

NIAGARA FALLS, ONT. Some time ago the ratepayers voted down a proposal to raise the sum of \$83,000 to construct a system of sewerage. As it was thought the matter has not been thoroughly understood, the Council has decided to again submit the question to the ratepayers and a vote will be taken early in December.

ST. JOHN, N. B.—E. F. Clements and others are applying for incorporation to build an electric railway between St. John and Yarmouth, N. S. Water power is to be used.—M. Co-te, chief engineer of the Dominion Public Works Department, recently inspected the Negrotown Point breakwater, on which extensive repairs will be made next year.

STURGEON FALLS, ONT.—Messrs. Davey & Foley, pump manufacturers, of Thorold, recently examined the water power at this place with a view to utilizing it for manufacturing purposes. They propose to erect a large pulp mill, to cost in the neighborhood of \$50,000, and to supply electric light to the town. A bonus of \$7,000 is asked from the Township of Springer.

MONCTON, N. B.—D. Pottinger, General Manager Intercolonial Railway, will receive tenders until Monday, 3rd December, for the following work in connection with the construction of branch lines of railways: 5½ miles grading from Windsor Junction to Station 290; 5 miles of grading from Tuft's Cove, Dartmouth, N. S., via Lake William, to Station 290. Plans may be seen at the Chief Engineer's office in this town and at the North Street Station, Halifax, N. S.

QUEBEC, QUE. David Ouellet, architect, is preparing plans for two churches and vestry, one to be built in the parish of Can d'Espoir, Gaspé County, to be 120 x 57 feet, to cost about \$13,000 and the

other to be built in the parish of St. Clement, Temiscouata County, to cost about \$10,000. The same architect is preparing plans for a presbytery, 38 x 32 feet, for the Rev. J. O. Drapeau, curate of St. Jean Evangeliste, to cost about \$3,400, and for another presbytery, 36 x 32 feet, for the Rev. J. Amoit, curate of St. Valerien, Temiscouata County, to cost about \$3,500. All the above buildings to be frame work with inside finish in wood. The Road committee of the City Council are said to have adopted plans for the erection of the new City Hall and resolved to call for tenders immediately.

LONDON, ONT.—The following building permits have been granted by the City Engineer: James Lang, Horton st., brick residence, cost \$1,000; W. H. Wooley, Dundas street, frame store and dwelling; Dundas Street Methodist Church, frame mission hall on Hill street; A. Willis, King street, erection of a brick residence and alterations to residence. The Ontario Government has been asked to grant authority to the City Council to issue debentures to the amount of \$50,000 for the extension of the waterworks. Consideration has been promised by the Government.

HAMILTON, ONT.—Surveying has been commenced between Hamilton and Grand River with the object of building a canal between the two points, and utilizing the water of Grand river for power purposes. A. C. E. Few, Royal Hotel, this city, is one of the promoters. The trustees of the Heikmer street Baptist church have purchased a lot at the corner of Locke and Melbourne streets, and will probably erect a new church next spring. The following building permits have been granted: W. A. Edwards, two-storey bk. dwelling on East avenue, cost \$1,200, similar dwelling on Catharine street, cost \$2,000; Thomas Allen, two bk. dwellings on Morden street, between Locke and Peat streets, cost \$2,400; John Faulkner, two-storey bk. dwelling corner Queen and Bold streets, cost \$1,100.

MONTREAL, QUE.—Joseph Jacob, of St. Henri, is about to erect twelve residences on St. Denis street, near Sherbrooke street, plans for which were prepared by Theo. Daoust, architect. The Property Committee of the Protestant Board of School Commissioners has recommended that the old school on Sherbrooke street be sold and a more commodious building erected on another site. The matter is under consideration by the Board. The city have been granted an extension of six months by the C. P. R. authorities to prepare the site for the proposed East End station. Work on the new building will be commenced next May. The structure has to be completed by 1st May, 1896. At the annual meeting of the Canadian Society of Civil Engineers held in this city a fortnight ago, the question of erecting a new building to meet the requirements of the Society was discussed. Some of the members favored the enlargement of the present building. It was resolved to call a special meeting of the Council to appoint a committee to report on the matter. C. E. Fournier, architect, has prepared plans for a two storey front cottage at Saulx au Recollet, Que. The City Surveyor has reported to Council that it will require \$10,000 to repair the roadway and sidewalks on St. James street, and \$24,000 to pave and macadamize Jacques Cartier square. The committee appointed to select a site for the Chénier monument have recommended that it be erected on the south-west side of Viger square.

TORONTO, ONT.—The Court of Revision last week confirmed the assessments for an asphalt pavement and granolithic sidewalks on Leader lane, from King street to Colborne street, and for a block pavement on Bloor street, west of Spadina avenue. Committees have been appointed by the various Masonic lodges of the city to consider the advisability of erecting a building for the exclusive use of the fraternity. The Toronto Ferry Co. are inviting proposals for the lease of the

hotel proposed to be erected on Toronto Island by the company this winter. The plans are on view at the office of A. R. Denison, architect, 20 King street west. The Toronto Street Railway Company have purchased the building at present occupied by the company at the north-west corner of King and Church streets. It is the intention to enlarge and improve the building at once to meet the demands of their increased business. At a meeting of the Board of Works held on Monday last, the recommendation of the City Engineer for an asphalt pavement on McCaul street, at a cost of \$30,000, was adopted. The sum of \$3,750 was voted for the purchase of a steam road roller. It was decided to call for tenders for the widening of the Queen street subway, in order that the exact cost of the work may be known before settling the claims for land damages. Building permits have been granted as follows: A. W. Smith, additions and alterations to 7 Front st. e., cost \$4,000; H. Langlois, det. 2 story and attic bk. dwelling, 149 Rusholme rd., cost \$4,500; Anson Jones, det. 2 story and attic bk. dwelling, n. e. cor Sherbourne and Howard st., cost \$5,000.

OTTAWA, ONT.—The congregation of St. Andrew's church contemplate the erection of a Sunday-school building, and have accepted the plans of Messrs. Gregg & Gregg, architects, of Toronto. W. P. Anderson, chief engineer of the marine department, has just completed the work of surveying Lake Nipissing with a view to placing buoys and light-houses, and has reported that 16 buoys and several lighthouses, including a large one on the Manitou island, will be required. It is understood that Mr. Coste, engineer of public works, will visit North Bay at an early date with regard to improvements to the docks. Application will be made to Parliament next session to incorporate a company to build a railway from Quebec to Norway House, north of Lake Winnipeg, thence to Fort Simpson on the Pacific coast, with power to construct a branch from Montreal to the main line north of Montreal, and a branch from the main line at Pine Island lake, west of Lake Winnipeg, to a deep water Harbor on Hudson bay. The O. A. & P. S. railway engineers are surveying the line from Long Lake to Elmsdale on the Northern railway and have already located twenty miles. It is expected that the contracts will be given out this fall for the sixty miles between Long Lake and Elmsdale, and that the work will be gone on with during the winter on the rock cuts. Negotiations have been in progress for the past week for the establishment of a large factory in this city for the production of porcelain ware, carbons and electrical supplies. The plans of the company comprise the erection of a two-storey building, having two kilns for burning carbons and several workshops. A well-known electrical man is said to have been engaged as manager. The names of those interested have not yet been made known. The Lorne bridge at Wellington, up the Rideau canal, is to be rebuilt this winter. The piers are to be of wood and the superstructure of iron. The bridge will be built 300 feet in length.

#### FIRES.

The residence of R. P. F. Souer, at St. Boniface, Man., was destroyed by fire last week. Loss, \$2,000. A dwelling house at Paisley, Ont., owned by Mrs. Thomas Kerr, was burned recently. L. G. Holder & Co., machinists, and Chas. W. Seegge, builder, St. John, N. B., have been burned out. The former was insured for \$1,000, and the latter for \$4,600. Smith's roller flour mills at Jarvis, Ont., were destroyed by fire on the 11th inst. The loss will reach \$10,000, half of which is covered by insurance. Joseph Martin's grain elevator at Portage la Prairie, Man., has been burned. Loss, \$7,000; partially insured. W. H. Manning's new residence at Coldwater, Ont., was totally destroyed by fire last week. Loss, \$6,000; insurance, \$1,500. The large residence of J. C. Griffith, at Walkerton, Ont., was burned

on the 9th inst. It was valued at \$8,000. The Buckingham Mfg. Co.'s pulp mill at Buckingham, Que., was burned recently.

#### CONTRACTS AWARDED.

MONTREAL, QUE.—Warden King & Son have secured the contract for three furnaces for the city hall.

COLLINGWOOD, ONT.—The contract for building a large brick stable for Mr. Cook, 66 x 30 feet in size, has been let to Andrew Vietch.

NIAGARA FALLS, ONT.—The contract for the new St. Patrick's church has been awarded to Weale & Brakie, of Welland. Contract price, \$20,000.

FREDERICTON, N. B.—D. Holland, of Moncton, N. B., has secured the contract for roofing the Parliament buildings here with sparham cement.

LUNENBURG, N. S.—The contract for building the new Academy building in this town has been let to Mr. Treen, of North Sydney, C. B., the price being \$23,000.

HALIFAX, N. S.—The contract to heat with hot water the new Roman Catholic theological seminary on Quimpool road, has been awarded to Power & Co., of this city. The contract price is over \$4,000.

BRIDGEPORT, N. S.—Mr. Falconer, of Hopewell, has been given a contract by the Dominion Coal Company to build ten dwelling houses here. Mr. Falconer also has a contract to build a church and manse at this place.

TORONTO, ONT.—The Parks and Gardens Committee of the City Council have accepted the tender of Doty Bros. for dredging the lagoons at Island Park, at 11 cents per cubic yard, and for levelling the material at 7 cents per yard. The work will cost about \$6,480. A. J. Brown has been awarded the contract for stone foundations and piers for the new bridge across the lagoon, at the tender of \$2,949.

QUEBEC, QUE.—D. Ouellet, architect, has awarded a contract to Mr. Jos. St. Hilaire for the construction of a new church and vestry in the parish of St. Germaine du Lac Etchemin, (Dorchester). amount of contract \$15,200. He has also awarded the contract for the erection of a tower and steeple for the church of St. Joachim (Montmorency) to Mr. Emile Cote, at the following prices: masonry, \$1,300; wood work, galvanized roof of steeple, painting, etc., \$1,440.

LONDON, ONT.—The Free Library Board has accepted the following tenders for the erection of the proposed library building: J. Purdon, woodwork, \$3,795; Simpson & Murray, brickwork, \$4,131; R. Gash, plastering, \$365; A. J. Greenaway & Co., plumbing, \$156; J. Brockest, galvanized iron, \$202; H. & C. Colerick, painting and glazing, \$907; J. Nobbs, cut stone, \$1,070; A. J. Greenaway, wiring, \$124; G. Riddle, red slate roof, \$1,300; H. J. Boyd, furnace, \$392; total \$12,451. With the exception of the furnaces, the lowest tender was accepted in each case.

#### MUNICIPAL DEPARTMENT.

##### CAST-IRON WATER PIPES.

Some practical and experienced judges express the opinion that as compared with steel, the days of cast-iron water pipes are nearing an end; representing, as they must be regarded, too much dead weight for too little strength; it is asserted, in fact, that able engineers long ago reached the conclusion that the most costly and least satisfactory way of protecting iron against oxidation is with mere bulk of its own substance, and those most concerned in the future of cast-iron pipe admit that it is destined soon to take its place among the materials forced into disuse by the progress of the arts. For high pressures the ideal conduit is claimed by many to be a welded steel tube. Such tubes could probably, it is thought, be subjected to a tensile strain of 25,000 pounds with entire safety, and its preference to riveted pipe would be based not only on the fact of

superior strength, but on the very desirable quality of almost perfect interior smoothness. It is further argued that the adaptation of a superior and cheap metal, such as milled steel, for conduits will permit the construction of hydraulic works in many parts of the world where it now seems impracticable.

#### METHODS OF GROUTING WOOD PAVEMENTS.

CEMENT GROUT.—Requires a joint at least  $\frac{1}{4}$  in. wide; this eventually causes the formation of a "corduroy" road, as the edges of the courses get bruised, and the result is a noisy road and the life of the blocks is reduced.

The material, being rigid, is incapable of compensating for expansion or contraction in the blocks, and all expansion is transmitted to the channels, displacing the kerb and footways, or requiring the cutting out of the whole or part of the channel course. This action happens repeatedly, and involves considerable expense in labor and material.

There is invariably an irregular joint next the kerb, and by reason of wheels running on the edge of the channel course the wood is bruised and the rut is formed.

As the blocks shrink when dry they become loose in the jointing material, the pavement is no longer impervious, grit fills the open joints, and on expansion again occurring the pressure on the kerb is repeated. There is also the injurious effect of moisture on the blocks.

Cement grout joints require to be left a week to set, or will be disintegrated by traffic. This involves a road being closed a week longer than the time required for the execution of the work.

Cement grout joints may be run in any weather.

PITCH GROUT.—Allows joints to be reduced to 1-10 in. wide, and in case of soft wood the blocks may be in close contact, so preventing the spread of the fibre and preserving a smooth surface, and the full life of the wood is made available.

Being more or less elastic the joint absorbs expansion and gives way to the contraction of the blocks, so that no movement is transferred to the channels, no pressure brought to bear against the kerb to cause its displacement.

The joint next the kerb does not alter from the time of the first completion of the work.

The pavement is always impervious, and the pitch joints preserve the blocks.

Traffic may be turned on to the work immediately the joints are run.

Pitch blocks can only be properly made on dry material, and in wet weather it is necessary to cover the blocks with tarpaulins.

B. J. Saunders, C. E., has been appointed engineer of Brockville, Ont.

#### DEBENTURES WANTED.

Municipalities issuing debentures, no matter for what purpose, will find a ready purchaser by applying to G. A. STIMPSON, 9 Toronto Street, Toronto, N. B.—Money to loan at lowest rates on first mortgage.

#### D. BAER & CO.

BUILDERS OF THE

... Bear Patent ...

#### COMBINATION - BRIDGE DOON, ONT.

All communications promptly answered.

Municipal Officers, Contractors and others are requested to mention the CONTRACT RECORD when corresponding with advertisers.

#### Paving Granite

Granite Sets for Street Paving.

CURBING cut to any shape ordered.

Quarries, St. Philippe d'Argenteuil, P. Q.

Address all communications to

JOS. BRUNET - COTE DES NEIGES, MONTREAL

MUNICIPAL ENGINEERS, CONTRACTORS, AND MATERIALS.

**J. M. SHANLY**  
 M. CAN. SOC. C. E. CIVIL ENGINEER. M. AM. SOC. C. E.  
 STANDARD BUILDING MONTREAL  
 Surveys, Plans, Estimates, &c., for Water Works,  
 Sewerage, Water power projects, Bridges, Railways, &c.  
 . . . CONSTRUCTION SUPERINTENDED . . .

**WILLIS CHIPMAN, B. A. Sc.,**  
 M. Can. Soc. C. E.; M. Am. Soc. C. E.;  
 M. Am. W. W. Ass'n.  
**CIVIL AND SANITARY ENGINEER**  
*Water Works - Sewerage*  
*Sewage Disposal*  
 103 BAY STREET - TORONTO.

**J. McDUGALL, C. E.,**  
 ENGINEER OF THE COUNTY OF YORK  
**GENERAL MUNICIPAL ENGINEER**  
 Consulting Engineer for Municipalities in regard to  
 Electric Railway and other Franchises.  
 Specialties: Bridges, Foundations, Electric Railways,  
 and Roads. Surveys made; Plans, Specifications and  
 Agreements prepared, and work superintended.  
**COURT HOUSE, - TORONTO.**

**JOHN D. EVANS, O.L.S.**  
 MEM. CAN. SOC. C. E.  
**LAND SURVEYOR**  
 Civil Engineer : Architect  
 and Patent Solicitor.  
 Special attention given to Consulting and  
 Municipal Work.  
 GRASS' BLOCK, FRONT ST., TRENTON, ONT.

**JOHN GALT**  
 C. E. AND M. E. M. CAN. SOC. C. E.  
 Consulting Engineer.  
 20 Years' Practical Experience in England, United  
 States and Canada in Civil, Sanitary, Hydraulic,  
 and Mechanical Engineering.  
**SPECIALTIES**  
 Waterworks, Sewerage, Electric Railways  
 Office: Rooms 99 and 100,  
 CANADA LIFE BUILDING, - TORONTO.

**ALAN MACDOUGALL**  
 M. Can. Soc. C. E. M. Inst. C. E.  
**CIVIL AND SANITARY ENGINEER**  
 82 East Adelaide St. - TORONTO

SURVEYS AND ESTIMATES PREPARED for all  
 classes of municipal work, water powers, road  
 improvement. Construction superintended.

**Fire Bricks and Cement**  
 DRAIN AND WATER PIPES  
 SANITARY EARTHENWARE  
 LONDON PORTLAND CEMENT  
 GUARANTEED GENUINE.  
 Paving and Scoria Bricks for Stables,  
 Sidewalks, Yards, etc.  
 Large quantities on hand and to arrive. We handle  
 only the best quality. Prices lower than ever.

**F. HYDE & CO.**  
 31 Wellington Street, - MONTREAL,  
 Sole Agents for  
**THE "GRANTRYX" SMOKE TEST AND  
 DISINFECTING MACHINE.**

**MUNICIPAL OFFICIALS** should see to it that in the erection of town and city PUBLIC BUILDINGS, the installation of water works plant, etc., the advantages of **MINERAL WOOL**

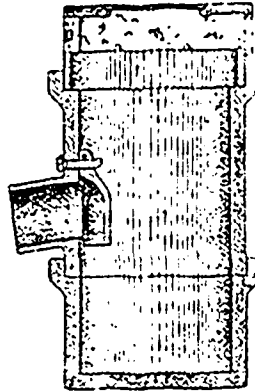


are made use of for deadening sound in floors and partitions, insulation of heat and cold, fireproofing, etc., also SECTIONAL MINERAL WOOL COVERING for steam pipes, boilers, exposed water pipes, etc.

**CANADIAN MINERAL WOOL CO., Limited, 122 BAY ST., TORONTO**  
 Montreal Agent: LEWIS SKAIFE 707 NEW YORK LIFE BUILDING

**E. D. MORRIS**  
 Direct Importer and Dealer in  
 Best English and Canadian  
**PORTLAND CEMENTS**  
*Vitrified, Paving and Fire Bricks,*  
*Fire Clay, &c.*  
 Offices: 8 Market St. - TORONTO

**THE "IMPROVED"  
 ST. GEORGE GULLEY**  
 OR STREET DRAINING WELL.



PATENTED 1885  
 AND 1893.  
 Made of cast iron  
 and vitrified tile.  
**OVER 6,000 NOW  
 IN USE.**  
 Not ONE complaint.  
 For further particulars, apply

**LEWIS SKAIFE, Manager**  
 New York Life Building - MONTREAL.

**Drummond McCall Pipe Foundry Company,**  
**MONTREAL**  
 MANUFACTURERS OF  
**CAST IRON WATER AND GAS PIPES**  
 WORKS: LACHINE, QUE. PRICES ON APPLICATION.  
**CANADA PIPE AND FOUNDRY CO. . . . .**  
 MANUFACTURERS OF  
 . . . . . **Cast Iron Pipes and Special Castings**  
 Works: MONTREAL AND ST. HENRI, QUE.  
 CORRESPONDENCE SOLICITED.

**HAMILTON AND TORONTO SEWER PIPE CO.**  
 FOR -  
**SEWERS,**  
 CULVERTS,  
 AND  
 WATER PIPES.  
**INVERTS**  
 Fire Brick Sewers  
 Write for Discounts.  
**HEAD OFFICE AND FACTORY: HAMILTON, CANADA.**



**STEAM AND POWER** FOR ALL DUTIES  
**Pumps** & HYDRAULIC MACHINERY  
**NORTHEY Co. LTD.**  
 Toronto - Ont.

**Artificial . . .  
 Granite Stone  
 . . Pavements**  
 . . . FOR . . .  
 STREETS, SIDEWALKS, BASEMENT  
 FLOORS, ETC.  
 The attention of municipalities and others inter-  
 ested is called to the excellence of this material.  
**A. GRAHAM**  
 Sole Proprietor and Patentee  
 226 Pleadilly St., - LONDON, ONT.

Municipal Officers, Contractors and others are  
 requested to mention the CONTRACT RECORD  
 when corresponding with advertisers.

**THE COPP BROS. CO., (LIMITED)**  
 The only Manufacturers in Canada and Sole Owners  
 of the Canadian Patents of the American  
**CHAMPION ROAD MACHINES**  
**CHAMPION ROCK CRUSHER**  
**CHAMPION SGEEL ROAD ROLLER**  
 Catalogues Free. Correspondence Solicited  
**COPP BROS. CO. HAMILTON, ONT.**

**THE STANDARD DRAIN PIPE CO.**  
 OF ST. JOHNS, P. Q., (LIM.)  
 Manufacturers of  
 Salt-Glazed  
 Vitrified  
**SEWER  
 PIPES**  
 Double Strength  
 Railway Cul-  
 vert Pipes,  
 Inverts, Vents,  
 AND ALL KINDS OF FIRE CLAY GOODS.



**THE G. & J. BROWN MFG. CO.**  
 Railway and Contractors' Plant.  
**BRIDGE BUILDERS**  
 BELLEVILLE, ONT.

**CENTRAL BRIDGE AND - ENGINEERING COMPANY, (LIMITED)**  
Peterborough, Ont.  
WM. H. LAW, Manager and Engineer.  
MANUFACTURER OF

**RAILWAY AND HIGHWAY BRIDGES**

Viaducts, Piers, Roofs, Turntables and Girders in Steel and Iron.

Tension members forged without welds. Riveting done by hydraulic or compressed air machines. Specialties: Good workmanship and strict adherence to specifications and drawings.

CAPACITY: 2,000 TONS PER ANNUM.

**Prices of Building Materials.**

**CONDITION OF THE MARKET.**

TORONTO: The market remains steady, with possibly a slight improvement. In general hardware the demand is mostly for small lines, such as locks, nails, etc. A satisfactory trade is reported in iron pipe, but the prices are being cut very fine. Galvanized iron is quiet the lighter gauges only being in demand. Nothing to report in lead pipe and discounts unchanged. Plumbing supplies are firmer, and a slight improvement is noticed in city trade. Business is brisk in window glass and paints and oils, as a result of the closing of the season's work. Cement remains the same.

MONTREAL: The market is quiet, with few changes to note. The cement season is about over, and all the large orders have been placed, consequently importers do not expect much activity. It is said to have been an unsatisfactory season for cement dealers, both as regards volume of business and low prices. The stock of English brands handled is fully 50,000 barrels short of last year. Prices remain unchanged. Fire bricks are selling at \$16 to \$22. Window glass is firm at \$1.25 for first break. Paints and oils are steady, with no change in quotations.

**LUMBER.**

**CAR OR CARGO LOTS.**

	Toronto.	Montreal.
1 1/2 to 2 clear picks. Am ins.	33 00 @ 36 00	40 00 @ 45 00
1 1/2 to 2 three uppers, Am ins.	37 00	40 00 45 00
1 1/2 to 2, pickings, Am ins.	26 00	27 00 30 00
1 inch clear		52 50 60 00
1 x 10 and 12 dressing and better	20 00	22 00 18 00 20 00
1 x 10 and 12 mill run	16 00	17 00 19 00
1 x 10 and 12 dressing	20 00	22 00 18 00
1 x 10 and 12 common	13 00	14 00 8 00 10 00
1 x 10 and 12 spruce culls	10 00	11 00 10 00 11 00
1 x 10 and 12 culls	9 00	10 00 9 00
1 inch clear and picks	28 00	32 00 33 00 35 00
1 inch dressing and better	22 00	25 00 28 00 20 00
1 inch siding, mill run	14 00	15 00 14 00 16 00
1 inch siding, common	12 00	13 07 12 00 14 00
1 inch siding, ship culls	11 00	12 00 10 00 11 00
1 inch siding, mill culls	9 00	10 00 8 00 9 00
Cull scantling	8 00	9 00 8 00 9 00
1 1/2 and thicker cutting up plank	24 00	26 00 22 00 25 00
1 inch strips, 4 in to 1 in. mill run	14 00	15 00 14 00 15 00
1 inch strips, common	11 00	12 00 11 00 12 00
1 1/2 inch flooring	16 00	17 00 14 00 15 00
1 1/2 inch flooring	16 00	17 00 14 00 16 00
XXX shingles, sawn, per M		
16 in.	2 50	2 60 2 60 2 60
XX shingles, sawn	1 50	1 60 1 60 1 70
Lath	2 40	

**YARD QUOTATIONS.**

Mill cull boards and scantling	10 00	10 00
Shipping cull boards, promiscuous widths	13 00	13 00
Shipping cull boards, stocks	16 00	16 00
Hemlock scantling and joist up to 16 ft.	11 00	12 00 10 00
Hemlock scantling and joist up to 18 ft.	12 00	3 00 12 00 13 00
Hemlock scantling and joist up to 20 ft.	13 00	14 00 13 00 14 00
Cedar for block paving, per cord	5 00	5 00
Cedar for Kerbing, 4 x 14, per M	14 00	14 00
Scantling and joist, up to 16 ft	14 00	14 00
18 ft	15 00	15 00
20 ft	16 00	6 00
Scantling and joist, up to 22 ft	17 00	17 00
24 ft	19 00	10 00
26 ft	20 00	21 00
28 ft	22 00	23 00
30 ft	24 00	25 00
32 ft	27 00	27 00
34 ft	29 00	29 00
36 ft	31 00	31 00
38 ft	33 00	33 00
44 ft	34 00	36 00
Cutting up planks, 1 1/2 and thicker, dry	25 00	28 00 25 00 26 00
Cutting up planks, 1 1/2 and thicker, board	18 00	24 00 18 00 22 00
<b>B. M.</b>		
1 1/2 in. flooring, dressed, F. M.	26 00	30 00 28 00 31 00
1 1/2 inch flooring, rough, B. M.	18 00	22 00 18 00 22 00
1 1/2 " dressed, F. M.	25 00	28 00 27 00 30 00
1 1/2 " undressed, B. M.	18 00	19 00 18 00 19 00
1 1/2 " dressed	18 00	20 00 18 00 20 00
1 1/2 " undressed	12 00	15 00 12 00 15 00
Beaded sheeting, dressed	20 00	35 00 22 00 35 00
Clapboarding, dressed	12 00	12 00
XXX sawn shingles, per M		
18 in.	2 60	2 70 3 00
Sawn lath	2 50	2 60 2 50
Cedar	2 90	2 90
Red oak	30 00	40 00 30 00 40 00
White	32 00	45 00 35 00 45 00
Basswood, No. 1 and 2	28 00	30 00 18 00 20 00
Cherry, No. 1 and 2	28 00	30 00 70 00 80

	Toronto.	Montreal.
White ash, No. 1 and 2	34 00	35 00 30 00 35 00
Black ash, No. 1 and 2	20 00	30 00 18 00 30 00
Dressing stocks	16 00	22 00 16 00 22 00
Picks, American inspection	30 00	40 00
Three uppers, Am. inspection	50 00	50 00
<b>BRICK—M</b>		
Common Walling	6 50	6 00
Good Facing	8 00	8 50
Sewer	8 50	8 00 8 50 9 00
<b>Pressed Brick, Per M:</b>		
Red, No. 1, f.o.b. Beamsville	16 00	
" " " "	14 00	
" " " "	9 00	
" " " "	21 00	
Brown	24 00	
Roman Red	30 00	
" Buff	35 00	
" Brown	40 00	
Sewer	7 50	
Hard Building	6 00	
Roof Tiles	22 00	
Hip Tile (each)	20	
Ridge Tile	60	
Red "A" f.o.b. Don Valley	18 00	35 00
Red "B" " "	16 00	20 00
Red "C" " "	13 00	17 00
Trojan and Corinthian	21 00	20 00
Pompeian	22 00	29 00
Athenian and Egyptian	25 00	31 00
Tyrian	35 00	41 00
Sicilian	40 00	45 00
Roman	35 00	40 00
Carthaginian	40 00	45 00
Ornamental	30 00	100 00 30 00 100 00
1st quality, f.o.b. at Port Credit and " "	14 00	18 00 12 00 15 00
Hard building brick	6 50	12 00
Ornamental, per 100	1 00	10 00

	Toronto.	Montreal.
<b>SAND.</b>		
Per Load of 1 1/2 Cubic Yards	1 25	1 25
<b>STONE.</b>		
Common Rubble, per toise, delivered	14 00	14 00
Large flat Rubble, per toise, delivered	17 00	18 00
Foundation Blocks, per c. ft.	50	50
Kent Freestone Quarries Moncton, N. B., per cu ft., f.o.b.	1 00	
River John, N. S., brown Freestone, per cu. ft., f.o.b.	95	
Balochmyle	80	90 65 75
New York Blue Stone		1 05
Granite (Stanstead) Ashlar, 6 in. to 12 in., rise 9 in., per ft. Moat Freestone		70 25
Thomson's Gatelawbridge, cu. ft.		75 80
Credit Valley Rubble, per car of 15 tons, at quarry	8 00	
Credit Valley Brown Coursing, up to 10 inch, per sup. yard, at quarry	1 75	
Credit Valley Brown Dimension, per cu. ft. at quarry	60	
Credit Valley Grey Coursing, per superficial yard	1 50	2 00 2 15
Credit Valley Grey Dimension, per cubic foot	60	75
Madoc Rubble, delivered, per toise	14 00	14 50 14 00 14 50
Madoc dimension floating, f. o. b. Toronto, per cubic ft.	30	32
Ohio Freestone, No. 1 Blue Promiscuous, f.o.b.	60	
No. 1 Buff Promiscuous	65	
No. 1 Buff Dimension	85	
The above prices means freight and duty paid.		
2 in. sawed flagging per sq. ft.	11	
3 1/2 " " " "	13 1/2	
3 " " " "	10 1/2	
4 1/2 " " " "	22	
5 " " " "	27 1/2	
6 " " " "	33	
Duty to be added to these prices.		
Quebec and Vermont rough granite for building purposes, per c. ft. f.o.b. quarry	33	1 50
For ornamental work, c. ft.	35	2 00
Granite paving blocks, 8 in. to 12 in. x 6 in. x 4 1/2 in., per M	50 00	
Granite curbing stone, 6 in. x 20 in., per lineal foot	70	

	Toronto.	Montreal.
<b>SLATE.</b>		
Roofing (per square)		
" red	18 00	20 00
" purple	9 00	10 00
" unslating green	8 50	6 00
" black	8 00	7 50
Terra Cotta Tile, per sq.	25 00	
Ornamental Black Slate Roofing	8 00	
<b>PAINTS. (In oil, per lb.)</b>		
White lead, Can., per 100 lbs.	6 25	5 50 6 00 6 25
" zinc, Can., " "	6 50	7 50 7 50 8 00
Red lead, Eng.	4 00	5 00 6 00
" verdian, per 100 lbs.	1 60	1 75 1 60 1 75
" vermilion	90	1 00 90 1 00
" Indian, Eng.	10	12 10 12
Yellow ochre	5	10 4 6
Yellow chrome	15	20 15 20
Green, chrome	7	12 7 12
" Paris	10	25 10 25
Black lamp	15	25 12 25
Blue, ultramarine	15	20 12 18
Oil, linseed, raw, & Imp. & d.	14	59 63 65
" " boiled	57	63 66 68
" " refined	78	85 75 77
Putty	2 1/2	2 1/2 2 1/2
Whiting, dry, per 100 lbs.	75	1 00 60 75
Paris white, Eng., dry	90	2 25 90 1 10
Litharge, Eng.	4	5 6 1/2 8
Sienna, burnt	10	15 12 15
Umber	8 1/2	12 12 15

	Toronto.	Montreal.
<b>CEMENT, LIME, etc.</b>		
Cement, Portland, per bbl.	2 25	2 50 3 50
" German	1 25	2 65 2 85
" London	2 50	2 75 2 45 2 90
" Newcastle	2 50	2 50 2 30
<b>Cement, Belgian, per bbl.</b>		
" Canadian	2 50	2 25 2 30
" Roman	2 75	2 75
" Parian	4 50	4 71 4 50 4 75
" Superfine	6 50	7 00 6 50 7 00
" Thorold	1 50	
" Queenston	1 00	
" Nananee	1 50	
" Hull	1 50	
Keene's Coarse "Whites"	4 50	4 75 4 50 4 75
Calced plaster, per barrel	1 50	1 70
Fire Bricks, Newcastle, per M	23 00	30 00 16 50 22 00
" Scotch	23 00	30 00 14 00 30 00
Lime, Per Barrel, Grey	3 00	
" White	40	
Plaster, Calcined, N. B.	2 00	
" N. S.	2 00	
Hair, Plasterers', per bag	80	1 00
<b>HARDWARE.</b>		
Cut nails, 5 d & 6 d, per keg	2 40	2 25
Steel " " "	2 50	2 35
<b>CUT NAILS, FENCE AND CUT SPIKES.</b>		
40d, hot cut, per 10 lbs	5	5
30d, " " "	10	10
20d, 16d and 12d, hot cut, per 100 lbs	15	15
10d, hot cut, per 100 lbs	20	20
8d, 9d, " " "	25	25
6d, 7d, " " "	40	40
4d to 3d, " " "	60	60
3d, " " "	1 00	1 00
2d, " " "	1 50	1 50
4d to 5d cold cut, not polished or blued, per 100 lbs	50	50
3d to 5d cold cut, not polished or blued, per 100 lbs	90	90
<b>FINE BLUED NAILS.</b>		
3d, per 100 lbs	1 50	1 50
2d, " " "	2 00	2 00
<b>CASING AND BOX, FLOORING, SHOOK AND TOBACCO BOX NAILS.</b>		
12d to 30d, per 100 lbs	50	50
10d, " " "	60	60
8d and 9d, " " "	75	75
6d and 7d, " " "	90	90
4d to 5d, " " "	1 10	1 10
3d, " " "	1 50	1 50
<b>FINISHING NAILS.</b>		
3/4 inch, per 100 lbs	85	85
2 1/2 to 2 3/4 " " "	1 00	1 00
2 to 2 1/2 " " "	1 15	1 15
1 1/2 to 1 3/4 " " "	1 35	1 35
1 1/4 " " "	1 75	1 75
1 " " "	2 25	2 25
<b>SLATING NAILS.</b>		
5d, per 100 lbs	85	85
4d, " " "	85	85
3d, " " "	1 25	1 25
2d, " " "	1 75	1 50

	Toronto.	Montreal.
<b>COMMON BARREL NAILS.</b>		
1 inch, per 100 lbs	1 50	1 50
3/4 " " "	1 75	1 75
1/2 " " "	2 25	2 25
<b>CLINCH NAILS.</b>		
1/2 inch, per 100 lbs	85	85
3/4 and 3/8 " " "	1 00	1 00
2 and 2 1/2 " " "	1 15	1 15
1 1/2 and 1 1/4 " " "	1 35	1 35
1 1/4 " " "	2 00	2 00
1 " " "	2 50	2 50
<b>SHARP AND FLAT PRESSED NAILS.</b>		
3/4 inch, per 100 lbs	1 35	1 35
2 3/4 and 2 1/2 " " "	1 50	1 50
2 and 2 1/2 " " "	1 65	1 65
1 1/2 and 1 1/4 " " "	1 85	1 85
1 1/4 " " "	2 50	2 50
1 " " "	3 00	3 00
<b>STEEL WIRE NAILS.</b>		
Steel Wire Nails, 75, 10 and 5 % discount from printed list.		
<b>Iron Pipe:</b>		
Iron pipe, 1/2 inch, per foot	6c.	
" " 3/4 " " "	7	
" " 1 " " "	8 1/2	
" " 1 1/4 " " "	12	
" " 1 1/2 " " "	17	
" " 2 " " "	24	
" " 2 1/2 " " "	30	
" " 3 " " "	43	
Black wrought iron pipe, 6 3/4 % off above prices.		
Galvanized " " "	40 1/2	
Cast and soil " " "	57	
<b>Lead Pipe:</b>		
Lead pipe, per lb.	7c.	
Waste pipe, per lb.	7 1/2	
Discount, Toronto and the West, 30 % off in small lots; 30 and 10 % off in ton lots; points east of Toronto, 35 and 10 % off.		
<b>Galvanized Iron:</b>		
Adam's—Mar's Best and Queen's Head:		
16 to 24 gauge, per lb.	4 1/2	4 1/2
26 gauge, " " "	4 1/2	5
28 " " "	5	5 1/2
Gordon Crown—		