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A WEEKLY JOURNAL OF
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EVERY THURSDAY

This paper reaches every week the Town and City Clerks, Town and City Engineers, County Clerks and County Engineers, Purchasers of Municipal Debentures and leading Contractors in all lines throughout Canada.

Vol. 7.

APRIL 16, 1896

No. 11.

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GITY of GUELPH

Notice to Contractors

Sealed Tenders will be received by the Chairman of the Board of Works until the

20th Day of April, 1896,

at 12 o'clock noon, for the construction of Cement Sidewalks that may be required to be laid by the Corporation of the City of Guelph during the current year.

All proposals must be on the blank forms furnished by the city, and must bear the bona fide signatures of the contractor and his sureties, and must be accompanied by a certified cheque for \$250, drawn on some bank doing business in the city and payable to the order of the City Treasurer, as a guaranty that contract will be executed in case of award.

Each bidder is required to make a statement indicating what sidewalk work he has done, or to give references that will enable the Board to judge of his experience and business standing.

Specification, blank forms and all available information will be furnished intending bidders on application at the office of the Engineer.

The Board reserves the right to reject any or all tenders.

JOHN KENNEDY,
Chairman Board of Works, Guelph.

J. HUTCHEON, City Engineer.



NOTICE TO CONTRACTORS

TENDERS FOR ANNUAL SUPPLIES

Tenders will be received, by registered post only, addressed to the Chairman of the Board of Administration, City Hall, Toronto, up to 5 o'clock, p.m., on

THURSDAY, APRIL 23rd, 1896,

For the undermentioned material, etc., required by the Department of Works and Waterworks during the year ending May 31st, 1897:—

- Brick.
- Cement.
- Special Castings.
- Stop Valves, 6-inch and 12-inch.
- Cast Iron Pipe.
- Lead Pipe.
- Brass and Bronze Castings.
- Lumber.
- General Stores.
- Brass Work for House Services.
- Iron and Steel.
- Iron Valve and Stopcock Boxes.
- Rubber Valves, Boots, etc.
- Lubricating Oils.
- Coal and Wood.

Specifications may be seen and forms of tender obtained at the office of the City Engineer, Toronto, on and after Thursday, April 16, 1896.

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 up to \$1,000 and 2½ per cent. on the value of the work tendered for over that amount, must accompany each and every tender, otherwise they will not be entertained.

Tenders must bear the bona fide signature of the contractor and his sureties, or they will be ruled out as informal.

Lowest or and tender not necessarily accepted

DANIEL LAMB,
Chairman Committee on Works.

THE MAYOR,
Chairman Board of Administration.
Toronto, April 6, 1896.

George A. Keefer and H. B. Smith, civil and hydraulic engineers, Victoria, B. C., have dissolved, Mr. Keefer continuing.

James McDougall, engineer of York county, Ont., has been elected an associate member of the Institution of Civil Engineers of England.

Saunders & Wiggins, civil engineers, Brockville, Ont., have dissolved partnership. Mr. T. H. Wiggins has opened an office at Cornwall.

Matthew Neilson, C. E., has been appointed manager of the company that controls the street railway, gas and electric light systems at St. John, N. B.

R. B. Rogers, C. E., engineer of the Trent Valley canal, has just returned from a visit to Europe to inspect the new hydraulic lift-lock for canals, one of which will be used in the Trent route near Peterboro'. This important experiment will materially affect all future canal building in Canada.

CONTRACTS OPEN.

FORT WILLIAM, ONT.—Hogan Bros. will erect a planing mill.

RENFREW, ONT.—Vandrick Bros. intend erecting a new store.

FOX WARREN, MAN.—It is proposed to build an oatmeal mill here.

BERLIN, ONT.—The council will invite tenders for laying cement sidewalks.

BON DESIR, QUE.—A landslide has demolished several houses and outbuildings.

LANCASTER, ONT.—D. P. J. Tobin is calling for tenders for building a brick block.

AIMIC HARBOR, ONT.—John Crowell and H. Montgomery will erect new residences.

STITTSVILLE, ONT.—Robert Foley has purchased a site on which to erect a dwelling.

HAWTHORNE, ONT.—William Hammel is making preparations to erect a new residence.

WESTPORT, ONT.—The council have in contemplation the installation of an electric light plant.

MILVERTON, ONT.—It has been decided by the School Board to erect a new school building.

LUCAN, ONT.—Halloran Bros. will rebuild the Vulcan foundry which was burned recently.

SAWYERVILLE, QUE.—Tenders are being taken for the building of the new Anglican church.

HINTONBURG, ONT.—The by-law to raise \$10,000 by debentures for improvements has been defeated.

RODNEY, ONT.—The sum of \$2,000 is asked from the village as a bonus for the erection of a flour mill.

ROTHESAY, N. B.—A new wing is to be added to the hotel Bell-View, work on which will be commenced at once.

ST. JEROME, QUE.—The Landed proprietors of the town and parish are considering the erection of a new church.

PORT PERRY, ONT.—Plans have been prepared for the rebuilding of the McGaw block, and tenders will be called for shortly.

KEMPTVILLE, ONT.—The by-law is being prepared to grant a bonus to Mr. Bowen for the erection of a large roller mill here.

ST. JOHN, N. B.—Steps will be taken by the Board of Trade to secure the extension of the wharves on the western side of the harbor.

PALMERSTON, ONT.—Plans are being prepared and contracts will shortly be awarded for the erection of a new Presbyterian church.

FORT WILLIAM, ONT.—The Canadian Pacific Railway Co. have plans prepared for a new 1,200,000 bushel elevator, which in all probability will be erected this year.

WALKERTON, ONT.—A town hall to cost \$10,000 is spoken of.

STURGEON FALLS, ONT.—It is probable that a large pulp mill will be erected here. Mr. Heath, of Huntsville, is one of the promoters.

ALMONTE, ONT.—It is said that a syndicate of capitalists will construct the proposed Carp and Almonte branch line electric railway.

GANOQUE, ONT.—Mitchell & Wilson will build an addition to a cottage owned by Mr. Findlay, Montreal, at his island above this town.

INDIAN HEAD, N. W. T.—Mr. Davidson, proprietor of the Indian Head Hotel, is making preparations for the building of a new hotel structure.

MEADOWVALE, ONT.—James McDougall, County Engineer, has been instructed to prepare plans for a new bridge over the Credit river, to cost \$3,000.

SANDWICH, ONT.—A proposal has been made to build a dry dock and marine railway here. The Federal government will be asked to grant financial assistance.

KINGSTON, ONT.—It is understood that the land between the Collegiate Institute and Victoria school, south of Alfred street, has been recommended as a site for the new drill shed.

PETERBORO, ONT.—The plans of William Blackwell, architect, have been accepted for the new Y. M. C. A. building, estimated to cost \$15,000.—The school buildings are proving inadequate.

BRANDON, MAN.—Hughes & Co intend putting in a planing mill outfit.—David W. Beaubier intends shortly to commence the erection of an hotel building, corner 9th street and Pacific avenue.

YORK, ONT.—Tenders are wanted until May 2nd for the ironwork of a bridge over Mackenzie creek, at Onedia. Abutments, 80 feet apart, clear. Tenderers to furnish plans. John Senn, clerk.

TILBURY CENTRE, ONT.—Mungo Stewart will erect a two storey brick block, corner Queen and Young streets. The ground floor will be fitted up for a store, a bank and insurance office.

ST. THOMAS, ONT.—Colonel John Stacey has completed the purchase of the franchise, etc., of the St. Thomas street railway. It is said to be his intention to convert the road at once into an electric line.

NIAGARA FALLS, ONT.—The preliminary surveys are being made for the new double track railway single arch bridge to be built across the gorge. All the companies interested are said to have signed the contracts, and work will be proceeded with at once.

MONCTON, N. B.—At a recent meeting of the incorporators of the Moncton Street Railway, Heat & Power Co., it was decided to proceed at once with the construction of the railway. It is the intention to have an entirely new plant. J. L. Harris, president.

QUEBEC, QUE.—The property of the Hotel Dieu, to the north of St. Roch and St. Sauveur, has been purchased by the city for the purpose of a park. The park is to be joined with St. Roch and St. Sauveur by a bridge at the foot of Crown street, and another at the foot of St. Ours street.

BRANTFORD, ONT.—The Public School Board desire plans for an eight or ten room school building. Address, Wm. Wilson, Chairman Building Committee.—It is said to be the intention of the company which recently purchased the electric light and power plant to erect a new power station.

GUELPH, ONT.—John McNab, reeve of West Luther, proposes building a brick residence next summer.—W. A. & J. A. McLean propose erecting a new building

on Douglas street.—The City Engineer has been instructed to invite tenders for the construction of the different walks required during the year.

ST. CATHARINES, ONT.—J. C. Rykert, Dr. Oille and J. S. Campbell, representing the St. Catharines and Niagara Central railway, waited on the Dominion government recently and offered to renounce the \$108,000 bonus already granted them, on condition that the government would expend \$50,000 in repairing that portion of the road already built between St. Catharines and Niagara Falls.

MONTREAL, QUE.—At a recent vestry meeting of St. Bartholomew's R. C. church a committee was elected with a view to the sale of the church property, it being considered desirable to remove to a more central location. A building permit has been granted for two three storey brick houses, stone front, corner of Pine and Park avenue, for Fred A. Lallemand; probable cost \$9,500.—W. E. Doran, architect, 180 St. James st., will let contracts this week for the erection of a block of five tenements on St. Andre st.

HALIFAX, N. S.—W. S. Whiteway, architect, is preparing plans for a business block for Gordon & Keith, four stories on Barrington street and five on Granville street. Stone and brick, pressed brick front, with sandstone trimmings, cost \$40,000.—The Peoples Heat & Light Co. are inviting tenders for the erection of a stone building. Plans may be seen at the company's office, 72 Bedford Row.—It is understood that the C. P. R. have in contemplation the erection of a large hotel in this city, but no definite information is available.

WOODSTOCK, ONT.—The Building Committee of Knox church have recommended that Mr. Edmund Burke, architect, of Toronto, be engaged to prepare plans for the proposed new church building, which is estimated to cost \$55,000. The building, including the Sunday school, will be 140 feet long, the auditorium 75 feet square, with a gallery extending around three sides. It will be built of stock brick, and have a spire 130 feet high at the southeast corner, and one 84 feet high at the north. The doors and windows are to be Romanesque in style.

WINDSOR, ONT.—Stephen Lusted, city clerk, will receive tenders until noon on Tuesday, the 28th inst., for the supply of 1,000 feet of 2½ inch cotton fire hose, to be furnished in fifty feet lengths, with couplings, and to stand a pressure of 350 lbs.—The Board of Trade will urge the C. P. R. to erect an elevator in this city. It is said the company will do so provided a bonus of \$25,000 is granted.—It is said the Natural Gas & Oil Co. are considering a project to extend the pipes to Essex, Amherstburg and Harrow.—The County Treasurer is receiving tenders for \$16,000 of debentures.

WINNIPEG, MAN.—Rourke & Cass have had plans prepared for an opera house to be erected on their property on Fort street.—The manager of the Canada Landed & National Investment Co. is expected to arrive in the city in a few days, when a decision will be reached regarding the rebuilding of the Potter house block.—A by-law will be voted on by the ratepayers on the 23rd inst., to grant \$30,000 to the Industrial Exhibition Association for building improvements.—The Lake of the Woods Milling Company will build grain elevators at different points throughout the province.—The City Engineer will invite tenders for upwards of one million feet of lumber.

PETROLEA, ONT.—Building operations in this town promise to be brisk during the coming summer. Three new churches will be erected, at an average cost of \$10,000 each, a large brick hotel to cost \$20,000, and a number of private residences. The waterworks system which

is about to be constructed will cost upwards of \$172,000.—Competitive plans are invited from architects for the new Baptist church to be built here.—Geo. Denham intends to build a block 40 x 75, to be divided into two stores.—Messrs. Boswell and Yerkes, representing a wealthy Cleveland syndicate, addressed the council recently respecting the construction of an electric railroad from Petrolea to the lake, where it is proposed to build a number of cottages. The council will grant the franchise provided work is commenced within three months.

LONDON, ONT.—The Free Library Board will ask the City Council for permission to issue \$5,000 of debentures for the purchase of books.—The new Southern Congregational church will be built of brick and stone, and will cost \$5,000. Herbert Matthews, architect.—The City Engineer will receive tenders until 6 p.m. to day (Thursday), for plank sidewalks, paving stone, crossing stone, lumber, hardware, gravel, stone curbing, iron castings, sewer pipes, cement, etc.—Building permits have been granted as follows: Ed Towe, two-storey residence on north side of Princess avenue, between Mantland and Palace streets, cost \$3,300; Wm. Short, brick house at 722 York st.; A. A. Lind, Elmwood avenue, two-storey brick residence on lot 9, Elmwood, cost \$1,500; Ed Martyn, brick cottage on English st., cost \$1,200; John Baker, brick veneer cottage on Lorne avenue, between English and Ontario streets; John Drew, storey and a half brick veneer house on Queen street.

HAMILTON, ONT.—William & Walter Stewart, architects, will receive tenders until Thursday, the 16th inst., for the erection of a brick residence.—The City Engineer will visit Canton, Ohio, to inspect the sewerage disposal system in operation there, with a view to its adoption in this city.—Dr. Barnes, a director of the International Radial Railway Co., has stated that operations will shortly commence to build the line from Hamilton to Guelph.—Plans are nearing completion for the proposed spur to connect the T. H. & B. railway with the Toronto branch of the Grand Trunk. The line will be about two miles in length and will cross the canal by means of a steel bridge south of the driving bridge. There will also be a bridge across the west end of Main or King streets. The cost of the work is estimated at \$200,000.—Building permits have been granted as follows: Ed. Furneaux, brick dwelling on West avenue north, cost \$1,000; Wm. Dixon, two two storey brick dwellings on Duke street, cost \$2,500.—Tenders are wanted at 19½ Hunter street for brick and carpenter work in building mansard roof on factory.—W. & W. Stewart, architects, are asking separate tenders until the 20th inst. for a three-storey and basement hotel building on Market street.—The Radial railway by-law has been passed by the City Council, and work will be commenced at once on the Beach line. Engineer Hillman has charge of construction, and it is said the contract has been given to W. P. Chapman.

OTTAWA, ONT.—J. H. Balderson, Secretary Department of Railways and Canals, will receive tenders until noon on Saturday, 9th May, for the enlarging of 1½ miles of the Grenville canal. Plans may be seen at the above department in this city and at the superintending engineer's office, Montreal.—Tenders are invited by Edward Wallace, Chairman Board of Works, until noon on Wednesday, the 22nd inst., for supplying a street sweeper for the city.—A special committee has recommended that steps be taken at once to have plans prepared for the drainage of the city, and that Messrs. Davy and Charles Keeser be requested to prepare a plan and report either jointly or

separately as to the most feasible scheme. —The directors of the General Hospital have decided to engage A. C. Hutchison, architect, of Montreal, to prepare plans for the new wing to be erected this summer. —St. Patrick's Literary and Scientific Society are considering the erection of a new hall, and the matter will be considered at its next meeting. —The Dominion supplementary estimates contain the following items: New immigration building, Halifax, \$30,000; new bridge over Burlington canal, \$15,000; Lachine enlargement \$20,000; Cornwall canal, \$74,000; Papid Platts, \$87,000; St. Lawrence river survey, \$3,500; Rideau canal, \$11,200; Sault Ste. Marie equipment and construction, \$265,000; Farran's Point, \$5,000; public work for St. Lawrence river ship channel, \$20,000, dredging in Quebec and Ontario, \$10,000, repairs, furniture and heating of the public buildings in Ottawa, \$28,000. —The city will receive proposals until the 16th inst. for a loan of \$40,000. John Henderson, city clerk. —T. J. Morris has decided to defer the erection of the contemplated brick block of stores on Dalhousie street for one year.

TORONTO, ONT.—Mr. Parks, barnister, has purchased a lot, corner Oak avenue and Queen street east, and proposes erecting a large summer residence. —The City Engineer will be asked to recommend that the track allowance on Dundas street, from Bloor street to the city limits, be paved with brick on concrete. —At a meeting of the ratepayers of school section No. 20, Norway, it was decided to erect the new building on the site of the present school. —The new building for the Royal Canadian Yacht Club will be constructed of wood, covered with galvanized iron, and painted. —The proposition to erect a convalescent home for women on the island is being opposed, on the ground that a similar constitution exists at the corner of Bathurst street and Davenport road. —The city will issue \$15,000 debentures to cover the cost of the island waterworks. —The residents of Murray street have petitioned for a cedar block pavement. —Mr. W. N. Whiter, of Muncie, Indiana, was in the city seeking a site suitable for the construction of an implement factory. —The Ontario government is said to be negotiating with the educational authorities of the Methodist church for the purchase of the old Victoria College building in Cobourg, with the intention of converting the building into a reformatory for women similar to the Mercer reformatory. —The City Council has adopted the Queen street subway report, and tenders will be invited for the work. —In respect to the request of James McIntosh for a fixed assessment of \$50,000 on the new grain grading and cleaning plant and roller mills which it is proposed to establish in this city, the council have decided that the fixed assessment shall only apply to the new features of the establishment. —The village of East Toronto will be asked to contribute a grant towards strengthening the bridge over Main street. —W. H. Clay has purchased the Taylor property on Edward street, East Toronto, and will erect an addition to the residence. Deputy Reeve Lucas will erect a two-story residence, corner Sandwich ave. and Main street. —The C. P. R. will commence work at once on the construction of the York street bridge. —Building permits have been granted as follows: Royal Canadian Yacht Club, club house, Esplanade, cost \$3,500; Cobban Mfg. Co., 5 storey bk. factory on Esplanade, cost \$30,000; M. Sheard, add. and alterations, No. 423 Yonge street, cost \$1,500; E. F. B. Johnston, det. 2 storey and attic bk. dwelling, 14 Spadina ave., cost \$5,000; Harton Walker, 3 storey bk. factory on e. side lane w. of Yonge st., s. side Adelaide st., cost \$2,000; P. W. Ellis & Co., interior alterations to warehouse, 31 and 33 Wellington st. e., cost \$3,000. —The City

Engineer will recommend that the granolithic pavement on the south side of Front street be extended from York street to Simcoe street. —F. H. Herlert, architect, is preparing plans for a brick row of tenement houses to be erected on Terauley street, tenders for which will be called shortly. —Mr. W. Caldwell, of Hillcrest, Rosedale, will build a large addition to his summer residence on Fisher island, Muskoka. Mr. F. H. Herbert, architect, has prepared the plans.

FIRES.

A house owned by Thomas White, at Kingston, Ont., was burned on the 9th inst. Small insurance. —A frame building, 30x90 feet, in connection with the Oxford foundry, Woodstock, Ont., was destroyed by fire last week. Loss to machinery, stock and building, \$3,000, no insurance. —The public market building at Cornwall, Ont., has been burned. Insurance \$3,500. —Fire at Port Dalhousie, Ont., on the 8th inst., destroyed the two-storey building owned by John Stanton, the Great Northwestern Telegraph office and a three-storey structure owned by the Neelon estate. —The lumber yards and feed stores of John Davidson & Son, and the residence of the senior member of the firm at Halifax, N. S., were completely destroyed by fire last week. Loss, \$60,000, small insurance. —A grain warehouse at Aurora, Ont., owned by Jesse Smith, of Toronto, has been burned. —Trull's block at Orono, Ont., has been destroyed by fire. The loss is estimated at \$20,000; partially covered by insurance. —A large warehouse at Sherbrooke, Que., owned by the Paton Manufacturing Company, was destroyed by fire on Wednesday of last week. The loss is largely covered by insurance. —The residence of Wm. O. Doran, of the Dominion Suspender Company, at Niagara Falls, Ont., was burned Sunday morning. Loss on building, \$10,000, insurance \$5,000. —The saw mill of J. J. McNeil, of Gravenhurst, Ont., situated at Smith's Crossing, was destroyed by fire on Thursday last. Loss, \$11,000; insurance, \$6,000. —A dwelling house at Colborne, Ont., owned by Hugh Heffrin, was burned on Monday last. —A large frame hotel at Walsh, Ont., owned by Pelham Maybee, was consumed by fire on Tuesday last. Insurance, \$1,000.

CONTRACTS AWARDED.

WHITBY, ONT.—G. Stimson & Co., of Toronto, are the successful purchasers for \$22,850 of town debentures. MANSFIELD, ONT.—Mr. Leitch, of Hornings Mills, is the successful contractor for a new school building here. NIAGARA FALLS, ONT.—The Canadian General Electric Co. have secured the contract for the electric light plant. STRATHROY, ONT.—The contract for an annex to the House of Refuge has been let to Henry Owens, of this town, at

\$16,000. Nineteen tenders were sent in.

COLLINGWOOD, ONT.—The contract for building the Lakeside cottage for Capt. Collins was awarded to the Bryan Manufacturing Company, of this town, for \$4,500.

HULL, QUE.—The tender of A. Irving, of Toronto, has been accepted by the town council for the purchase of \$108,000 of debentures, at the price of \$214,667.

CHARLOTTETOWN, P. E. I.—Paquette & Godbout, of St. Hyacinthe, have been awarded the contract for the erection of the new St. Dunstan's Cathedral. The cost of the building, excepting the interior and spire, will be \$58,995.

GUELPH, ONT. Contracts for erecting a brick residence, three stories, for B. Kloetper, have been awarded as follows. H. Chubb, brick and stone, Fred W. Darby, carpentering; J. J. Mahoney, plastering; Feek & Phillips, plumbing; John Goss, painting; Jackson & Co., tinsmithing, Geo. R. Bruce, architect.


MONTREAL, QUE.—J. H. Macduff, architect, has awarded contracts as follows. Two tenement buildings, three stories, stone front, on Prince Arthur st., for Auguste Lachapelle—masonry, Bray & Guilbault; brick, J. Rochon; carpenter and joiner's work, Geo. Bail; plastering, J. Chamberlain, painting and glazing, Albert Deschamps, plumbing, J. A. Giroux, gravel roofing, Berneir Bros.

KINGSTON, ONT.—The School Board have decided to erect the new school building of brick. The following tenders have been accepted: Alex. Newlands, masonry, \$7,960; Hunter & Harold, carpentry, \$5,831; Elliott Bros., metal and plumbing, \$1,828; painting and glazing, \$533, making a total of \$16,152. —Joseph Wilson has secured the contract for a wing to the Rockwood asylum, 20x42 feet. Cost \$6,000.

LONDON, ONT.—Bowman & Co. secured the contract to supply the lumber for the season of 1896, at the following prices: Pine, \$16 per M.; cedar, \$15 per M., with \$1 extra per M. for delivery at Springbank. —The joint committee of Elgin and Middlesex received tenders as follows for the new Tat bridge north of Dutton: John McGugan, Southwold, \$799; Moses W. Lumley, Iona, \$750; Isaac Crouse, Westminster, \$684 (accepted).

TORONTO, ONT.—The Canadian Office & School Furniture Company, of Preston, have been awarded the contract for supplying 400 single seats and desks for the Public School Board. —The Fire and Light Committee will recommend that the council purchase a Waterous fire engine, at the price of \$4,400. —The Gutta Percha & Rubber Co. have supplied 1000 feet Paragon fire hose to the city of London, and 500 feet Maltese Cross fire hose to


(Continued on page 4.)

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BRIDGE BUILDERS

BELLEVILLE, ONT.

the village of Pictou, N. S.—F. H. Herbert, architect, has awarded the following contracts for large residence on Bloor st. west for Mr. T. A. Rowan: brickwork, Bedford & Son; carpenter work, S. D. Rogers & Co.; plastering, Little & Brown, heating and plumbing, Worthington & Garratt; roofing, Huber & Son; painting, H. W. Johnston.

WINNIPEG, MAN.—Contracts for a cold storage warehouse for J. Y. Griffin & Co. have been let by Hugh McCowan, architect, as follows: masonry work, Davidson Bros.; carpenter work, G. T. Baird; galvanized iron and tin work, the James Robertson Co., Ltd. The new addition is to be solid brick, 40x80 feet, two and a half stories.—Mr. A. C. Sutherland has been awarded the contract for the carpenter work and D. D. Wood the masonry for the new warehouse to be erected on King street by Mr. Carruthers. The building will be of brick, with stone front; Mr. Greenfield, architect.—It is understood that a contract has been let for the construction of a railway from Gladstone to the Dauphin country, a distance of 150 miles is to be completed this year. Hon. Mr. McMillan, provincial treasurer, is interested.

NEW COMPANIES.

SAULT STE. MARIE, ONT.—Sault Ste. Marie Tug Co., incorporated; capital, \$150,000; to carry on a towing and wrecking business.

ANTIGONISH, N. S.—Woodstock Mining Co., seeking incorporation; capital, \$30,000. Promoters, R. D. Kirk, Robert Dickson and others.

WESTVILLE, N. S.—Westville Foundry and Machine Co., incorporated; capital, \$12,000. Among the promoters are G. E. Munro, Duncan Weir and S. G. Gordon.

NEW GLASGOW, N. S.—J. W. Carmichael & Co., incorporated; capital stock, \$250,000. The promoters are J. W. Carmichael, Jas. M. Carmichael and others.

WINDSOR, N. S.—Pattison Manufacturing Co., seeking incorporation; capital, \$8,000. Applicants, George Pattison, Henry Pattison, David H. Morris, James A. Russell and Allen Haley.

GODERICH, ONT.—Kensington Manufacturing Co., incorporated; capital, \$40,000. Promoters, Horace Horton, Ephraim Downing, Samuel Sloane, George Acheson and others. Object, the manufacture of furniture.

CORNWALL, ONT.—Cornwall Electric Street Railway Company, incorporated;

capital, \$150,000. The company is composed of H. R. Hooper, C. E., D. A. Starr, F. N. Seddall and Mrs. Hooper, of Montreal, and W. R. Hitchcock, of Cornwall.

TORONTO, ONT.—Algoma Copper Mining Co., incorporated; capital \$1,000,000; to develop mines. Promoters, E. G. Drake, J. W. Call, D. W. Payne, W. H. Peters, George McCann, P. McLaren, H. G. Bessey, S. J. Hall and J. B. Coykendall, all of Elmira, N. Y.

MONTREAL, QUE.—The Smoke Preventer Co., incorporated; capital \$10,000; promoters, John McFarlane, Smeaton White, Wm. J. White and others.—The Linde British Refrigerator Co., applying for incorporation. Promoters, C. W. Vollman, James A. Wright, James Cooper and others.

ST. GEORGE, N. B.—Victoria Granite Co., seeking incorporation; capital, \$5,000. Applicants, C. C. Hennessey, Stephen Couley, O. Frederick Bogue, Jas. R. O'Brien, J. Henry Frawley and H. McDougall, all of St. George.—Milne, Coutts & Co., applying for incorporation; capital, \$25,000; to operate granite quarries. Promoters, Alex. Milne, Wm. Coutts, Charles Johnson, jr., of St. George, and John D. Chipman and J. T. Whitlock of St. Stephen.

To polish plate glass and remove light scratches, rub the surface gently first with a clean pad of white cotton wool, and afterward with a similar pad covered with cotton velvet which has been charged with rouge. The surface under this treatment will show a polish of great brilliancy; quite free from scratches.

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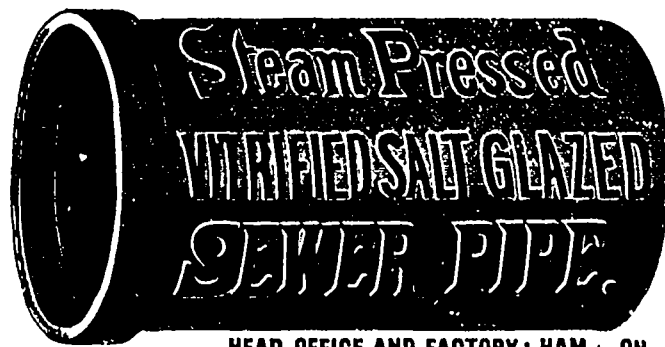
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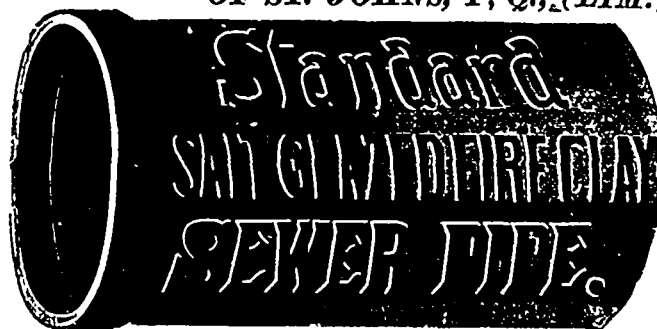


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MUNICIPAL DEPARTMENT

MUNICIPAL BUILDINGS.*

(Concluded.)

The town clerk's department will be fixed by the position of the mayor's parlor, which the town clerk's private office should adjoin if it can be arranged, or if this is not possible the two rooms should be near enough to each other to render intercommunication easy. Departments should never be split or divided between two or more floors, unless there are some very special reasons for doing so, as in the case of a laboratory or photographic studio, which must be on the top floor, while the rest of the departments will be placed below. In this case there should be direct access by a private staircase.

The remarkable plan submitted by Messrs. Flockton & Gibbs in the competition for the Sheffield municipal buildings, marked what was practically a new departure in the planning of this class of building, and is worthy of the closest study and attention. The principle here adopted was that of a central hall, with the public office of each department opening directly from it, and surrounded by the private offices of the several officials. This arrangement is undoubtedly ideal, but to adopt it strictly would usually involve increasing the number of stories to an undesirable extent, as was the case in the design in question. The principle is, however, the right one, and in planning public offices should, I think, always be borne in mind; but it will be necessary to modify and adapt it to suit the special requirements of the site in each particular case. If I may venture to suggest a criticism, the design in question erred in this respect—that it was not adapted to the site.

In large buildings it is desirable that there should be a secondary or subsidiary entrance to the offices, in order that it may be possible to use the main entrance on state occasions without interfering with the course of public business. In some cases it might be an advantage to make the secondary entrance the usual office entrance, reserving the main entrance exclusively for state use. In any case, this point is worthy of careful consideration; but the peculiar circumstances in each instance will govern this, as many other details. The position of the strong rooms for the several departments, which are often of considerable size, present at times much difficulty. These should, as a general rule, open out or communicate with the clerks' offices. In the planning of most large buildings there are certain spaces where it is a difficult matter to introduce an adequate amount of light, and it should be en-

deavored to utilize these spaces for the strong rooms; otherwise there is no serious objection to their being placed in the basement, if convenient access from the clerks' offices is provided. The roofs or floors over should be specially constructed to secure the requisite strength. The thickness of an ordinary fireproof floor is quite inadequate for security. One of the finest methods of construction is a layer of cement concrete 12 inches to 18 inches in thickness on steel joists about 3 feet apart, and with a sheet of strong expanded metal embedded in the centre. This forms a practically indestructible floor. As a rule, it may be regarded as quite unnecessary to line these strong rooms with sheets of steel in the manner in which the bankers' safes are treated, as the chief, if not the only danger to be guarded against, is fire. Some arrangement should be made for inlet and outlet ventilation by small cranked flues in the walls or otherwise.

Where it can be conveniently provided a small museum or show-room for sanitary appliances, &c., will be a valuable addition to the surveyor or engineer's department. This should be placed in the basement if it can be fairly well lighted and is accessible, as in this position the drainage required can be arranged with a minimum of difficulty.

The position and amount of lavatory accommodation should be most carefully considered. I am inclined to think that in most instances this is very much overdone, as a great amount is not requisite if they are well and centrally placed. Where it can be avoided, they should never be placed on the front wall, as the difficulties of soil pipes and ventilators are practically insuperable.

The council chamber, committee-rooms, &c., may be regarded as the most important portion of municipal buildings, and it is here that the architect has the greatest opportunity for the exercise of his art. It is here, above all places, that he may with propriety give full play to his ability, and may introduce the richest materials and the most effective design. This being so, it is essential that the planning should be most carefully thought out in its most minutest details, as whatever elaboration may be introduced, and however lavish may be the expenditure, the effect will fall short if the planning be ill-considered. On the other hand, the plainest and least expensive materials may be combined into an effective and dignified composition if the plan and details be carefully studied and worked out, and it is in the consideration of the plan that the finest effects are conceived.

The main staircase should be treated as practically a part of this section, and should be planned with due regard to the position of the principal rooms, and to that of the main entrance and the offices of the town clerk or any other officials who may, from the peculiar circumstances of the case, be placed on the upper floor. In buildings where a public hall forms part of the scheme, another factor is introduced in the problem, as the main staircase will be required to serve also as the principal access to that, unless it be on the ground floor, which the restricted nature of the site in many instances precludes.

It would be manifestly impossible to lay down any hard and fast rules as to the planning of this department, and I can therefore only give in general terms a few of the points which it is desirable to keep in view.

The main-staircase will, of course, rise

from the entrance-hall, and should be of very ample width and easy rise, the minimum of which may be taken as 12-inch tread and 5½-inch or 6 inch riser. The foot of the staircase should be a prominent feature, and seen immediately on entering the building. It is very desirable that the head of the staircase should land into an upper hall of full as ample dimensions as the lower entrance-hall. It is here, at the head of the staircase, that the crowding at receptions, and on other important occasions, will be most severely felt, and the more space which can be given the better, both from a practical and architectural point of view.

The position of the cloakrooms for ladies and gentlemen is a matter which is often difficult to determine. In the consideration of these, the manner in which they are generally used must be taken into account. A lady and gentleman enter the building, separate for the purpose of leaving their cloaks, &c., and then rejoin. It appears from this that the two cloakrooms should not be far apart, and the doors should be almost in sight of each other, otherwise there will be difficulty in ladies and gentlemen rejoining after leaving them. All things considered, the best position appears to be opening out of the lower entrance hall, say one on each side of the foot of the main staircase. The upper hall will then be capable of being used as part of the reception suite, which would not be the case if the cloakrooms were placed upstairs. These rooms are often allowed to take their chance, and are consequently very inconveniently placed. I think, however, they should be regarded as of considerable importance, and worthy of some care and thought in their arrangement.

The upper hall at the head of the staircase should give access to the council chamber department, including banqueting hall, town hall, and any offices which may be on this floor. In the planning of these rooms, the same principle as that previously advocated, of avoiding corridors, or reducing them to a minimum, should be observed. It is always necessary that the council chamber should be provided with an ante or waiting-room of good size, and in most cases it will be possible to so arrange that the mayor's parlour and committee rooms shall be grouped around it, all more or less entering from it. Where this is done it will be found that there is great opportunity for architectural treatment, and at the same time considerable economy of space is affected. The anteroom thus becomes available as a waiting room for deputations to committees as well as to the council, and the whole department is centralized and concentrated. A councillors' lavatory is necessary, opening out of the anteroom; but this may be small, as it will not be in constant use.

As far as possible the whole of this section of the building should be self-contained and capable of being shut off from the public portions. The council chamber should be in a quiet position away from the main street where possible, and the mayor's parlour adjoining and communicating with the private office of the town clerk.

The access for the public to the gallery of the council chamber should be an entirely separate and distinct entrance and staircase from the street, and should be as direct as possible. In most cases a gallery to accommodate from twenty-five to thirty persons will be sufficient, as very few people attend the ordinary meetings of a town council. The only occasion on which there are large numbers is on the election of the mayor, and at these times no ordinary gallery would be sufficient to accommodate them.

* A paper read by Mr. H. T. Hare at a meeting of an English Architectural Association.

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INDEX TO ADVERTISEMENTS

In the "Canadian Architect and Builder."

Table listing various professionals and companies such as Architects, Plumbers, Roofing Materials, and Sanitary Appliances with their respective page numbers.

Advertisement for J. McDougall, C. E., General Municipal Engineer, located at Court House, Toronto.

Advertisement for E. Carl Breithaupt, Consulting Electrical Engineer, located at Berlin, Ont.

Advertisement for Silica Sand & Gravel Co., Montreal, promoting crushed quartzite for pavements and concrete.

Advertisement for The Three Rivers Ironworks Co., Three Rivers, P. Q., specializing in cast iron water and gas pipes.

Advertisement for Drummond McCall Pipe Foundry Company, Montreal, specializing in cast iron water and gas pipes.

Prices of Building Materials.

CONDITION OF THE MARKET.

TORONTO: The manufacturers of cut nails have advanced prices 15 per cent., to take effect May 1st. Prices are now booked as follows: Base price, \$2.60 in small lots and \$2.50 in carload lots, Montreal, Toronto, Hamilton and London. Plumbers' supplies are steadily improving, while a fair trade is being done in iron pipe, lead pipe and galvanized iron. Cement is without special features.

MONTREAL: General hardware is moving freely. The proposed advance in cut nails is stimulating purchases. An improvement is noted in plumbers' supplies. More inquiries are also received for cement for shipment, but the amount of business secured by importers is not yet large. The demand for paints and oils has fallen off slightly. The glass market is quiet, at unchanged quotations.

LUMBER.

CAR OR CARGO LOTS.

	Toronto.		Montreal.	
	\$	\$	\$	\$
1/4 to 2 clear picks, Am ins.	33.00	36.00	40.00	45.00
1/4 to 2 three uppers, Am ins.	37.00	40.00	40.00	45.00
1/4 to 2, pickings, Am ins.	26.00	27.00	30.00	30.00
1 inch clear			40.00	45.00
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	20.00
1 x 10 and 12 common	13.00	14.00	8.00	10.00
Spruce culls	10.00	11.00	8.00	10.00
1 x 10 and 12 culls	9.00	10.00		9.00
1 inch clear and picks	28.00	30.00	35.00	40.00
1 inch dressing and better	20.00	22.00	18.00	20.00
1 inch siding, mill run	14.00	15.00	12.00	16.00
1 inch siding, common	12.00	13.00	10.00	13.00
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
1/4 and thicker cutting up plank	24.00	26.00	22.00	24.00
1 inch strips, 4 in to 8 in. mill run	14.00	15.00	14.00	15.00
1 inch strips, common	11.00	12.00	10.00	12.00
1/4 inch flooring	16.00	17.00	12.00	15.00
1/2 inch flooring	16.00	17.00	12.00	15.00
XXX shingles, sawn, per M				
16 in.	2.30	2.40	2.60	2.60
XX shingles, sawn	1.40	1.50	1.60	1.70
Lath	2.00		1.50	

VAID QUOTATIONS.

Mill cull boards and scantling	10.00	10.00	12.00
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
Hemlock scantling and joist up to 20 ft.	13.00	14.00	13.00
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	14.00
18 in.	15.00	16.00	16.00
20 ft	16.00	16.00	16.00
22 ft	17.00	17.00	17.00
24 ft	19.00	19.00	19.00
26 ft	20.00	21.00	21.00
28 ft	22.00	23.00	23.00
30 ft	24.00	25.00	25.00
32 ft	27.00	27.00	27.00
34	29.50	29.50	29.50
36 ft	31.00	31.00	31.00
38 ft	33.00	33.00	33.00
44 ft	34.00	36.00	36.00
Cutting up planks, 1/4 and thicker, dry	25.00	28.00	25.00

B. M.

1/2 in. flooring, dressed, F.M.	26.00	30.00	23.00	31.00
1/2 inch flooring, rough, B.M.	18.00	22.00	18.00	22.00
1/2 " dressed, F.M.	25.00	28.00	27.00	30.00
1/2 " undressed, B.M.	18.00	19.00	18.00	19.00
1/2 " dressed	18.00	20.00	18.00	22.00
1/2 " undressed	12.00	15.00	12.00	15.00
Headed sheeting, dressed	20.00	35.00	22.00	35.00
Clapboarding, dressed	12.00	8.00	12.00	
XXX sawn shingles, per M				
18 in.	2.60	2.70	3.00	
Sawn lath	2.50	2.60	2.60	
Cedar	2.90	2.90	2.90	
Red oak	30.00	40.00	30.00	40.00
White	37.00	45.00	35.00	55.00
Blackwood, No. 1 and 2	28.00	30.00	18.00	20.00
Cherry, No. 1 and 2	70.00	90.00	70.00	80.00
White ash, No. 1 and 2	24.00	35.00	30.00	35.00
Black Ash, No. 1 and 2	20.00	30.00	18.00	30.00
Dressing st. cks.	16.00	22.00	16.00	22.00
Picks, American inspection	30.00	30.00	40.00	
Three uppers, Am. inspection	50.00	50.00	50.00	

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Common Walling	6.50		6.00
Good Facing	8.00		8.50
Sewer	8.50	8.50	8.50
Pressed Brick, Per M:			
Red, No. 1, f.o.b. Beamsville	16.00		
" " "	14.00		
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Buff	21.00		
Brown	24.00		
Roman Red	30.00		
" Buff	35.00		
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Sewer	7.50	
Hard Building	6.00	
Roof Tiles	22.00	
Hip Tile (each)	20	
Ridge Tile	60	
1st quality, f.o.b. at Port Credit and	14.00	18.00
2nd " " "	12.00	15.00
3rd " " "	8.00	12.00
Hard building brick	6.50	
Ornamental, per 100	7.00	10.00
F. O. B. DON VALLEY.		
Red A	18.00	24.00
Red B	16.00	20.00
Red C	13.00	17.00
Trojan and Corinthian	21.00	28.00
Pompeian	22.00	29.00
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Sicilian	40.00	45.00
Roman	35.00	40.00
Carthaginian	40.00	45.00
Ornamental	30.00	100.00
Common insides	6.00	
Hard sewers	7.50	
Vitrified pavers	16.00	22.00

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Per Load of 1 1/2 Cubic Yards	1.25	1.25
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Large flat Rubble, per toise, delivered	18.00	18.00
Foundation Blocks, per c. ft.		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.	80	95
Ballochmyle	80	90
New York Blue Stone		1.05
Granite (Stanstead) Ashlar, 6 in. to 12 in., rise 9 in., per ft.		25
Moat Freestone	60	70
Thomson's Gatevalley bridge, cu. ft.		75
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	3.25
Credit Valley Brown Dimension, per cu. ft. at quarry	60	75
Credit Valley Grey Coursing, per superficial yard	1.50	2.00
Credit Valley Grey Dimension, per cubic foot	60	75
Clark's N. B. Brown Stone, per cubic foot, f.o.b.	1.15	1.00
Brown Tree Stone, Woodpoint, Sackville, N.B., per cub. ft.	1.15	1.00
Madoc Rubble, delivered, per toise	14.00	14.50
Madoc dimension floating, f.o. b., Toronto, per cubic ft.	30	32

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No. 1 Buff Promiscuous	70	85
No. 1 Buff Dimension	75	90
No. 1 Blue Promiscuous	55	70
No. 1 Blue Dimension	60	75
Sawed Ashlar, No. 1 Buff, any thickness, per cub. ft.	90	1.05
Sawed Ashlar, No. 1 Blue, any thickness, per cub. ft.	75	90
Sawed Flagging, per sq. ft., for each inch in thickness.	0.6 1/2	0.7 1/2
Above prices cover cost freight and duty paid.		For
small lots add 5 to 20 cents per cubic foot.		
Quebec and Vermont rough granite for building purposes, per c.ft. f.o.b. quarry	33	1.50
For ornamental work, cu. 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	

SLATE.

Roofing (per square)		
red	18.00	20.00
purple	00	10.00
unslating green	9.00	6.00
black	8.00	5.50
Terra Cotta Tile, per sq.	25.00	
Ornamental Black Slate Roofing	8.50	

PAINTS. (In oil, per lb.)

White lead, Can., per 100 lbs.	6.25	5.50	5.50	6.00
" zinc, Can., "	6.50	7.50	6.50	7.50
Red lead, Eng.	4.00	5.00	4.50	5.00
" venetian, 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	3	5
Yellow chrome	15	20	15	20
Green, chrome	7	12	7	12
" Paris	20	25	14	20
Black lamp	15	25	12	25
Blue, ultramarine	15	20	12	18
Oil, linseed, raw, per Imp. gal.	54	59	58	59
" " boiled	57	63	62	63
" " refined	78	85	75	75
Fatty	2 1/2	2 1/2	2 1/2	2 1/2
Whiting, dry, per 100 lbs.	75	1.00	60	75
Paris white, Eng., dry	90	1.25	90	1.00
Litharge, Eng.	4	5	4.50	5.00
Sienna, burnt	10	15	12	15
Umber	8 1/2	12	12	15

CEMENT, LIME, etc.

Portland Cements—				
German, per bbl.	3.25	2.55	2.65	
London	2.50	2.75	1.92	2.05
Newcastle	2.50	1.85	1.95	
Belgian, Josson, artificial	3.40	2.50	2.65	2.75
English, artificial, per bbl.	2.60	2.90	2.55	2.65

	Toronto.	Montreal.
Portland Cements.—		
Belgian, natural, per bbl.	2.30	2.40
Canadian	2.30	2.50
Roman		2.00
Parian	4.50	4.75
Superfine	6.50	7.00
Hydraulic Cements.—		
Thorold, per bbl.	1.50	1.25
Queenston	1.10	1.50
Napanee	1.50	1.50
Hull	1.00	1.50
Ontario	1.25	
Keene's Coarse "Whites"	4.50	4.75
Fire Bricks, Newcastle, per M	27.00	35.00
" Scotch	27.00	35.00
Lime, Per Barrel, Grey		50
" White		50
Plaster, Calcined, N. B.		2.00
" N. S.		2.00
Hair, Plasterers', per bag	80	1.00

HARDWARE.

Cut nails, 50d & 60d, per keg	2.65	2.25
Steel " " "	2.75	2.50

CUT NAILS, FENCE AND CUT SPIKES.

40d, hot cut, per 100 lbs	2.70	2.30
30d, " "	2.75	2.35
20d, 16d and 12d, hot cut, per 100 lbs.	2.80	2.40
10d, hot cut, per 100 lbs.	2.85	2.45
8d, 9d, " " "	2.90	2.50
6d, 7d, " " "	3.05	2.65
4d to 5d, " " "	3.25	2.85
3d, " " "	3.65	3.25
2d, " " "	4.15	3.75
4d to 5d cold cut, not polished or blue, per 100 lbs.	3.15	2.75
3d to 5d cold cut, not polished or blue, per 100 lbs.	3.55	3.15

FINE BLUED NAILS.

3d, per 100 lbs.	4.00	3.75
2d, " "	4.50	4.15

CASING AND BOX, FLOORING, SHOOK AND TOBACCO BOX NAILS.

12d to 30d, per 100 lbs.	2.50	2.60
10d, " "	2.80	2.70
8d and 9d, " "	2.95	2.80
6d and 7d, " "	3.10	3.05
4d to 5d, " "	3.30	3.20
3d, " "	3.70	3.60

FINISHING NAILS.

3 inch, per 100 lbs.	3.10	2.95
2 1/2 to 3 1/2 " " "	3.25	3.10
2 to 2 1/2 " " "	3.40	3.25
1 1/2 to 1 3/4 " " "	3.60	3.45
1 1/4 " " "	4.00	3.85
1 " " "	4.50	4.35

SLATING NAILS.