

cost \$328; William street, west side, Queen to Caer Howell, cost \$2275; Rose avenue, east side, Prospect street to Wellesley, cost \$435, also from No. 61 to St. James avenue, cost \$542; Prospect street, north side, Rose avenue to Parliament street, cost \$348; Clara street, east side, Oak street to Orford avenue, cost \$350; Dundas street, east side, from Halton to Arthur street, cost \$361; Tianby avenue, north side, Avenue road to Bedford road, cost \$695; Rose avenue, west side, from a point 122½ feet north of Wellesley to St. James avenue, cost \$494; King street, north side, from Sumach to St. Paul, cost \$475; Grosvenor street, north side, from Surrey Place to Queen's Park crescent, cost \$323; King street, north side, Parliament to Berkeley, cost \$1029; Queen street, north side, Grant street to Bolton avenue, cost \$1496; Harbord street, north side, Bathurst to Markham, cost \$292, also from Parliament to Trefann street, cost \$374; Gerrard street, south side, River to Sumach street, cost \$610; Leopold street, north side, Jameson to Dowling avenue, cost \$700, also on the south side, cost \$632; Glen road, east side, Elm avenue to South drive, cost \$747.—Building permits have been granted as follows: William Davies Co., one story brick store, south-east corner College and Bathurst street, cost \$3,600; M. S. Kellow, pair brick dwellings on Wells street, near Albany avenue, cost \$5,000.—The city engineer has made a report to council on the proposed western sewer. The Indian road district system will cost \$7350; the Indian road sewer from the Lake Shore road to Garden avenue, \$7580; the Indian road sewer from Garden avenue to Cherry street, \$3965; the Cherry street sewer, \$4350; the High Park sewer, \$2740.

MONTREAL, QUE.—L. O. David, city clerk, will receive bids up to February 1st for supply of license numbers, badges, etc.—J. R. Gardiner, architect, has taken tenders for the erection of college building at Grand Ligne, Que.—The general superintendent of the G.T.R. went to Portland, Me., last week in connection with the selection of a site for new elevator to be erected there.—In connection with the hospital project, it is reported that in return for \$50,000, half of the sum proposed to be devoted to the purpose, an hospital under Roman Catholic direction would be built in connection with the Hotel Dieu.—The Board of Trade have approved of the project to render navigable the French river between Georgian Bay and Lake Nipissing.—The question of the adoption of water meters for house services is under consideration by the council.—Macvicar & Heriot, architects, 189 St. James st., have prepared plans for a residence on Churchill avenue, Westmount, to cost about \$10,000, for which tenders will be asked shortly.—The city council is at present considering the raising of a municipal loan of \$2,000,000. This is required for municipal improvements, including new sidewalks and pavements, new fire stations, improvements to city hall, \$400,000 for Bonsecours market, and \$500,000 for level crossings.—The warehouse of the Central Agency Co., 12 de Bresoles street, collapsed last week. The building is owned by the Grey Nuns, who will probably replace it by a steel and iron structure.—The shareholders of the Carillon and Grenville Railway Co., at their annual meeting held in this city last week, discussed the question of using electric instead of steam power on their railway, a proposition to do this having been made by some capitalists who are considering the utilization of the power of the old Carillon canal.—John Kennedy, chief engineer of the Harbor Board, has submitted a report covering the new work of the harbor and also additional work to be undertaken. He recommends as urgent the building of the middle pier

of plan 1242, raising of the wharf at the city side of the windmill point basin, and the extension of the broad wharf on the south-east side of the same basin.—Building permits have been issued as follows: P. Millaire, three storey house, 274-276 St. Dominique st., cost \$1,550; E. Lesperance, two two storey houses, Bienville street, cost \$1,200; E. Blanchette, two storey house, Massue street, cost \$1,200; St. Lawrence Investment Co., alterations to house, corner La Salle and Rachel streets, cost \$1,600; Hutchison & Wood, architects; Chas. Guilbault, two storey house, 36 Robin street, cost \$1,000; D. Bertrand, three storey house, 1220 St. Catharine street, cost \$2,666; Ovilla Dumoulin, two storey house 1681 St. Hubert street, cost \$1,000.—V. Pauze & Son, 193 St. Urban street, are calling for tenders for four houses in Maisonneuve.

FIRES.

Cooperage shop of R.C. Tait at Shediac, N. B.; loss \$8,000.—Farmers' Milling Co.'s mill and elevator at Fort Saskatchewan, N.W.T.; loss \$25,000.—Residence of William Flynn, Somerset street, St. John, N.B.—Leonard Hotel at Hampton, N. B., totally destroyed; loss \$3,000, insurance \$1,500.—Dry goods warehouse of Thomas May & Co., at corner Notre Dame and McGill streets, Montreal, partially destroyed; loss \$250,000. The building is owned by the Redford estate.—Building at Perth, Ont., owned by J. Bower; loss \$12,000.—At Phoenix, B.C., M. McBean & Co.'s dry-goods store, the Imperial hotel, Baldwin's block, and building owned by William Hunter & Co., were destroyed by fire on the 17th inst.—Grain and seed store of D. Kennedy and residence of Edgar Brocklebank at Arthur, Ont., completely destroyed; partially insured.—Woollen Mills at Lambton Mills, Ont., owned by the Canadian Woollen mills Co., totally destroyed; loss \$75,000.—Fire at Elgin, Man., on 20th inst. destroyed the following buildings: Harness store of W. H. Bull, stores of D. Irwin, T. P. Jackson, Temple & McGuire, and Dr. J. R. Chambers, the post office, and implement warehouse of Massey-Harris Co.; loss \$25,000.

CONTRACTS AWARDED.

KINGSTON, ONT.—H. I. Breck has secured the contract for wiring and lighting the new drill hall.

ST. MARY'S, N. B.—The contract for rebuilding bridge at Dumbarton has been let to Whitman Drewer, of this place.

HANOVER, ONT.—H. Gruetzner has let the contract for stone and brick-work and plastering of his new store to H. Prast.

GLENCOE, ONT.—For purchase of \$1,850 village debentures the tender of G. A. Stimson & Co., of Toronto, has been accepted; price \$1,876.

SHAWVILLE, QUE.—Pontiac county council have accepted the tender of the Sawyer-Massey Co., of Hamilton, for the supply of a stone crusher.

WINNIPEG, MAN.—The contract for iron superstructure of C.P.R. bridge over the Red river has been let to the Dominion Bridge Co., of Montreal, and that for masonry substructure to, Kelly Bros., of this city.

LONDON, ONT.—H. C. McBride, architect, has let the following contracts for new store on Richmond street: Mason and brickwork, John Hayman & Sons; carpenter work, Harry Martin.—Moore & Henry, architects, have awarded the contract for renovation of store on Richmond street to Tambling & Jones, contractors.

The capital stock of the Canadian Bridge Company, of Walkerville, Ont., is \$250,000, instead of \$25,000, as given in last issue.

BLASTING.

The subject of blasting has been very exhaustively and scientifically treated by Messrs. A. W. and Z. W. Daw, in a book

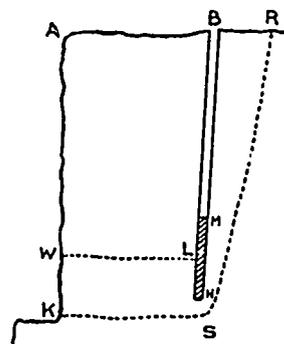


FIG. 1.

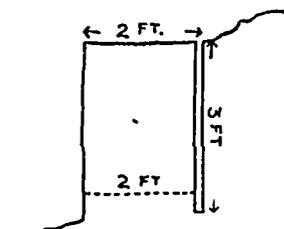


FIG. 2.

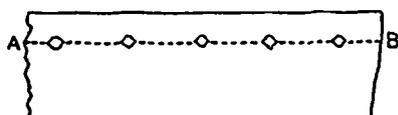


FIG. 3.

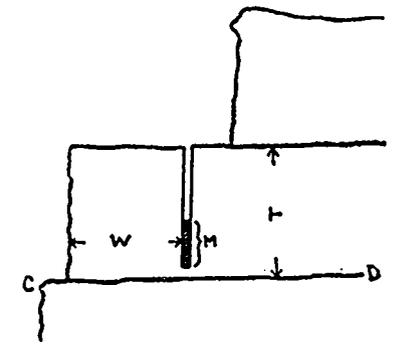


FIG. 4.

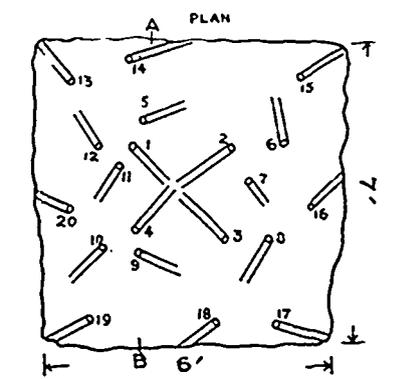
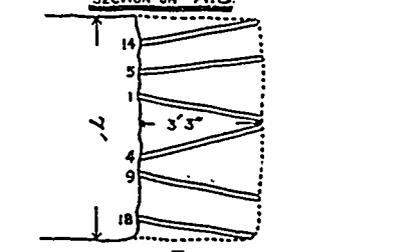


FIG. 5.



designed for technical men. A simpler treatise, with good practical suggestions,