

and \$147.72 respectively; roofing and slating, Thos. Irwin & Son, \$199; metal sheet and gravel roofing, J. E. Riddell, \$222; electric light fixtures, Lowe & Farrell, \$136; painting, A. M. McKenzie, \$247; plastering, J. Clapham & Son, \$400; ventilating, A. Rogers, \$170.

MONTREAL, QUE.—Building permits have been granted as follows: One building on Durochier street, St. Lawrence ward, three stories, stone and brick, cost \$4,000, for O Deslauriers masonry, A. Huot; carpenter and joiner's work, O Deslauriers; bricklaying, J. Carriere; plumbing, etc., A. Brunet. One house on St. Andre street, wood lined in brick, for Louis Brouillette—masonry, M. Latour; carpenter and joiner's work, Chas. Duval.—H. Austin Jones, architect, has let contracts as follows: Two buildings, three stories, stone and brick, mansard roof, to be built on Ottawa street, St. Ann's ward, for Michael Clarke—masonry, J. R. Labelle; carpenter and joiner's work, M. Cazavant; bricklaying, John Bousquet.—The fixtures of J. H. Blumenthal & Son's store, corner of Ste Catherine and Metcalfe streets, have been awarded to M Couvrette & Son. W. McLea Walbank is the architect.—Arthur St. Louis, architect, has awarded the following contracts for five houses, two tenements, corner of Chesterfield and Prince Albert avenues, for Narcisse Nolin—masonry, Louis Ouimet; carpenter and joiner's work, Garipey & Co.; other trades not let.—The following tenders were received by the city for the supply of a large steam fire engine: E. H. Thomas, Brussels, Ont., Ronald engine, 12,000 gallons a minute capacity, five years' guarantee, \$5,000. Waterous Engine Company, Brantford, Ont., a Waterous engine, according to specifications, \$7,000. B. Ledoux & Co., Montreal, an Amosbreag (Elmira, N.Y.) engine, 10 years' guarantee, \$8,000. American Fire Engine Company, Clapp and Jones engine, \$7,995; American engine, \$7,800. John Martin, Son & Co., Montreal, La France engine, \$8,000. The latter tender will probably be accepted.

#### GLUE.

Glue being an animal substance, must be kept sweet. To do this, says a contemporary, it is necessary to keep it cool when it is dissolved and not in use. In all cases keep the glue-kettle clean and sweet by often cleaning it. The best glue will require from one-half to more than double the water to dissolve it that is required for poor glue, which is clear and red, and the quality of which can be dis-

covered by breaking a piece. If good, the glue will break hard and tough, and when broken will be irregular on the broken edge. If poor, it will break comparatively easily, leaving a smooth straight edge. In dissolving glue it is best to weigh it, and also to weigh or measure the water. If this is not done, there is a liability of putting into the pan more glue than the water can properly dissolve. It is a good plan, when once the quantity of water that the kind of glue that is used will take has been ascertained, to put the glue and water together at least six hours before heat is applied, and if it is not soft enough then to let it soak longer, for no harm can be done to good glue by its remaining in pure water even for forty-eight hours. If glue is of first-rate quality it may be used very thin on most kinds of woodwork, and will thus make the joint as strong as the original. Glue is made white by bleaching.

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