

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

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

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

Table with 4 columns: Diameter, Number, Lin. ft., Price. Lists various pipe sizes and their corresponding quantities and prices.

LAMINATED BEAMS.

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

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

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Prices of Building Materials.

LUMBER.

Table listing various lumber products such as clear pickets, dressed and better, mill run, spruce culls, maple culls, etc., with their respective prices.

Metallic Roofing Co. of Canada:

Table listing roofing materials like Eastlake steel shingles, Improved Broad Rib Roofing, North Western steel siding, etc., with prices per square.

Canada Galvanizing & Steel Roofing Co.:

Table listing galvanized iron and steel products like Corrugated Iron, Broad Rib Roofing, Westlake shingles, etc., with prices per square.

YARD QUOTATIONS.

Table listing various yard materials and their prices, including Mill cull boards, Shipping cull boards, Hemlock cantling, etc.

B. M.

Table listing building materials like flooring, sheathing, clapboarding, sawn lath, etc., with prices.

BRICK—M

Table listing common walling, good facing, and sewer pipes with prices.

Pressed Brick

Table listing various types of pressed bricks like plain brick, hard building, moulded and ornamental, etc., with prices.

Stone.

Table listing common rubble, large flat, and foundation blocks with prices.

Slate: Roofing (per square).

Table listing different types of roofing slate like red, purple, untinting green, black slate, etc., with prices.

Sand:

Table listing per load of 1 1/2 cubic yards with price.

PAINTS. (In oil, per lb.)

Table listing various types of paints like white lead, red lead, vermilion, yellow ochre, etc., with prices.

CEMENT, LIME, etc.

Table listing cement and lime products like lime per barrel, plaster, hair plasters, etc., with prices.

HARDWARE.

Table listing various hardware items like cut nails, American pattern, Canadian pattern, steel nails, etc., with prices.