

USEFUL HINTS.

Iron bolts exposed to water in the bridges over the Thames, have, in twenty-five years, been eaten away one-half.

Celluloid in solution is now being extensively used as a lacquer for all kinds of fine metal works and as a wood varnish, with results that are said to be superior to the old methods.

The best sand for concrete is that with angular, coarse grains of uneven size. The more uneven the sizes, the less the voids, and the coarser the grains, the less quantity of cement required to cover the surface.

TO CLEAN STONE.—Powder some lime and mix with a strong solution of potash, so as to form a thinnish paste. Apply this to stone and allow it to remain on for two or three days, then wash it off and repeat the application if necessary. This will free marble from stains, and, if persisted in, will no doubt do the same with freestone. Keep the potash solution in a bottle, and mix fresh paste each time it is wanted.

A noiseless stone pavement is thus described by Mr. Donald Nicoll, the inventor, in a lecture before the Inventors' Institute: "Blocks of granite five inches by three inches are wrapped, except on the upper surface, with waste fibre and elastic bituminous compound, and the whole brought together in a homogeneous condition (by a powerful lever) while resting on a continuous pad formed by the same substance."

It is claimed that there is "comparatively neither noise, mud nor rust; and last, but not least, great economy."

To multiply a drawing, let a sheet of paper float for two minutes on a warm solution of six grams gelatine and three grams bichromate of potassium in six cubic inches of water; dry it, float it again, but this time so that the side which was up the first time is under now; in this way a uniform coat will be obtained. The bichromate may be omitted from the solution; and before using, the paper may be floated in a solution of three parts bichromate to 100 parts water. The drying must be done in the dark. The dry paper is then exposed to the light under the drawing in the copying frame in the usual way, and afterwards placed in a dilute solution of alum in water. When the greater part of the bichromate has dissolved, place the picture on a glass or zinc plate, dry it with blotting paper, and with a soft roller ink it with lithographic ink. The drawing will appear white on the black-ground. When this is finished

wash again in water till the drawing has lost its yellow tinge. Such a print will yield forty or fifty good copies in a copying press, if the inking up has been done with lithographic printing ink.

Prices of Building Materials.

Table listing lumber prices for various types of wood, including clear picks, dressing, mill run, and shingles, with prices per 1000 or per 10000.

Table titled 'YARD QUOTATIONS' listing prices for mill cull boards, shipping cull boards, hemlock cantling, and various types of flooring and shingles.

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

Table titled 'Pressed Brick' listing prices for plain brick, hard building, and roof tiles.

Table listing prices for first quality, second, and third quality bricks and tiles.

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

Table listing prices for slate roofing in various colors and terra cotta tiles.

Table listing prices for paint per load of 1 1/2 cubic yards.

Table titled 'PAINTS' listing prices for various types of paint, including white lead, red lead, and yellow ochre.

Table titled 'CEMENT, LIME, etc.' listing prices for lime, plaster, hair, and cement.

Table titled 'HARDWARE' listing prices for American and Canadian patterns, finishing nails, and steel nails.

Handwritten notice from C. H. Mortimer Esq., a Canadian Architect & Builder, dated Montreal, October 14, 1890. The notice states that the following resolution was unanimously adopted at the First Annual Meeting of the Province of Quebec Association of Architects held in Montreal on 10th & 11th inst: '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.' Signed by C. H. Mortimer, Secretary.

Table listing prices for various types of shingles, including XX shingles, heavy Eastlake galvanized steel shingles, and light Eastlake galvanized steel shingles.