WATCHMAN-WARDER.

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LINDSAY, THURSDAY, SEPTEMBER 6th, 1900.

75 Cents per annum

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Dry Goods Story

more reliable than any fish tale ever spun.

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WM. PRINGLE, PRINCIPAL

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HOW TO MAKE THOSE

Road Commissioner Campbell gives some General Information.

ation. That is, if it is properly handled. to which is then added the stone, uni Its use in walks has become so general of formly, and in its proper proportion. late that the words of Commissioner Campbell in his report will be read with interest. The following paragraphs refer only to the use of the cement in walks. He 88 y8:

The advisibility of replacing old plank sidewalks in very many cases with the for 1898. In so doing, however, it has not been advocated that an inferior quality of concrete would be preferable to a good quality of plank walk, the comparison being, in every case between good quality of both plank and concrete.

The first cost of plank walks is about five cents a square foot. The life may be extended to about fifteen years, but for the last ten years repairs will have been many. Each repair requires that a man be sent with material so that the proportion to the first cost. The result is to about double the original cost of the work in a term of fifteen years, making the cost ten cents a square foot.

Cement concrete walks are being laid for eleven and twelve cents a square foot, although the circumstances of some cases. the difficulty of obtaining broken stone, gravel, or sand, may require a slightly increased outlay. The life is indefinite for we really do not know how long concrete work will endure, but we do know that concrete structures of the Romans, built 2,000 years ago, are still in existence. It is not too much to expect that the concepte walks now being laid will do service for fifty years if laid as they should be. The cost after a term of fifteen years is very little more than that of plank walks, so that their life beyond a term of fifteen years is a practical saving to the municipality.

The use of concrete is far from being properly understood by those who have charge of sidewalk construction in some municipalities, and the result has been in many instances, that most unsatisfactory work has been chtained.

Cament concrete in walks, culverts and other structures of a like nature, is last. ing and serviceable, and when properly mixed and rightly put in place, is in the best sense economical. But defective work shows itself quickly. Wherever there has been careless or "scamped" work, it is very likely to show itself after exposure to a winter's frost and dampness. Work which stands for two years without signs of cracking, shaling or crumbling is likely to be permanent, its life conditional chiefly upon the actual weer which it receives.

CAUSES OF POOR WALKS

Among the most frequent causes of poor concrete is the use of an inferior brand of cement. A cheap sidewalk obtained by the use of cheap cement will, in the end, prove exceedingly costly. Cement is a material of widely varying degrees of excellence, and experiments should not be tried by the smaller municipalities. There are good and reliable brands of Canadian Portland cement which have proven their qualities in large government works, and in other extensive contracts, and to go beyond these is unnecessary and in many cases entirely

Just as to how cement can be of poor quality is not understood by many, and it may be pointed out as one example, that the presence of free lime causes what is known as "blowing" in the finished concrete, and rapidly results in decomposition of the sidewalk.

Again among causes of inferior side- satisfactory evidence of their proper con- or three times that size. Houses were walks is the use of gravel and cement to struction and durability. The guarantee left without a pane of glass, and barns form the entire work, in place of a proper is generally so worded that it can be in- and outbuildings were wrecked. In mixture of sand, cement and stone. In terpreted to mean that the contractor is Bangor township the storm was even the composition of concrete we first pre. simply to keep the walk in repair for five worse. Large trees were torn off close pare a mortar of sand and coment with years, and entailing no responsibility to the roots, and any hay or grain that just sufficient water to make a plastic on the contractor even if the walk at the was cut and left in the fields was lost for mass; this is mixed with a quantity of end of that period is ready to crumble to ever, being carried for miles by the strong stone in such proportion that the mortar pieces, demanding almost immediate re- wind. A man named Dupuis almost lost will completely fill the voids between the construction. A town, however, should his life. His barn was blown to pieces. Lowest Rates. Ap- stones, with a proper excess of mortar not depend upon the contractor's guaran- and one of the beams struck him in the for safety. There are certain definite tee, but should employ an experienced back, inflicting serious injuries. It was proportions of cement, sand and stone and reliable inspector to see that the thought that his back was broken, but which must be uniformly mixed in pro- specifications are faithfully carried out. ducing a good quality of artificial stone. In using gravel only, the difficulty

to be mixed uniformly in those propor. Company at a cost of £900,000.

tions. Gravel usually contains sand, but not in uniform quantities, nor in any HE NEVER FELT ANY GRANOLITHIC WALKS definite proportions. Some pockets of so-called gravel will be almost completely sand, while adjoining it there is scarcely any sand, perhaps almost clean stone. To mix such material with cement to produce concrete, while in many cases it may be successful, is always hazardous. The The granolithic walks have come to only safe way, where gravel is the materi. stay. They are reckoned to stay for 20 al to be used, is to suparate by screening, years and their record is about 100 times the sand and stone which compose the better than that. Portland cement has gravel, then to mix the cement and sand in derision the third and fourth gener- in proper proportions to form the mortar,

MIX CAREFULLY

lessly mixed. The cement and sand the Orange Free State. should first be mixed dry. This should! Trenches are still being constructed mixture, and the paste should be again each grain of sand will be surrounded by for the mail. a sufficient coating of cement. This mortar having been spread out, the stone one pound of the highest I ever did. should be added and the whole turned The weather is getting a little warmer, over and mixed not less than ten times the days a little longer, and consequently before being used, the last mixing ensuring that each stone is completely surrounded by a coating of mortar.

will produce, when set, a concrete of spongy texture. Concrete when ready to be put in the work should have the con- bringing only papers we should have sistency of freshly dug loam, and should had last week. Dr. Barrie of the Y.M.C.A. appears on the surface.

the expansion destroys the surface of the body looks extremely well. walk, causing a thin layer to shale off in patches. The same shaling will result from laying concrete in frosty weather; nor should it be mixed nor laid in wet

Another cause of the fallure of side walks is that the concrete has not been properly and completely separated into flags to allow for expansion, with the rethrough the surface layer directly in line mother, two sisters, and a brother. with the joint underneath. The entire -An important deposit of lithographic ensure complete separation.

the two, and shaling will result.

this, as a saturated sub-soil will eventually is valued at \$1,000. cause a very uneven surface, since the separate flags when once upheaved seldom over the Bancroft section on Tuesday return exactly to their original position. afternoon of last week, which did a

tractors who furnish their own specifics. buildings in the surrounding country. tions and agreement. Where such is the Some of the farmers residing in the case, the agreement should contain a Paudash Lake district will not have a clause specifying in the most stringent bushel of grain to harvest, the hail and terms that the walk is to be kept in per- | rain having swept over the fields, crushfect condition, order and repair, so that at ing the grain into the earth and leaving it the end of the term of guarantee, usually useless. Hall stones as big as hen's eggs five years, the walks shall have given were a common thing, and some were two

arises from the fact that the cement, sand a fleet of 25 steamers belonging to the animals were killed, and altogether the and stone are not and cannot be expected British & American Steam Navigation storm was the worst that has visited that

BETTER IN HIS LIFE

So Writes Sergt. McCrea From the R.C.R. Camp at Springs.

The following brief letter to his sister is the last from Sergt. McCrea:

Springs, July 31, 1900. Dear Ella:-Mail which came Thursday brought me your newsy letter of June 19th. Nobody has had any papers for a month. We heard a few days since that Gen. Buller had captured 1500 Boers and several guns, killed and wounded 500 and had 1200 casulties on his side. Yesterday A cause of an interior sidewalk is that it was officially announced that 5000 the materials composing it have been care- Boers had surrendered at Bethlehem in

be turned over and mixed with shovels here. Nothing is said just now about more permanent concrete has been freis added. Water is then added in just men are getting squad drill 4 hours per sufficient quantity to slightly dampen the day. This, I suppose, is in view of a review, somewhere, sometime. I am turned over and mixed not less than six orderly man to-day and am for outpost times. If this work is properly done, to-night, so I am trying to get this ready

I am in good health and weigh within we stand to arms fifteen minutes earlier now. Two men arrived here Monday morning, and have been taken on the The use of too much water in mixing strength of R.C.R. One is Doey of Campbellford.

Aug. 1st.-Mail arrived last night be rammed into place until moisture has opened a coffee room which is much appreciated by the men. Sixpence will Neglect to keep a newly laid walk you a good meal of fruit sandwiches or damp, and protected from the rays of the buns and tea or coffee. In the regular sun, will permit the surface to set too way sugar sells at one shilling and three rapidly. Minute, hair-like cracks will pence per pound, and rice and oatmeal at appear on the surface. These fill with one shilling per pound. I think the low water, which freezes in cold weather, and diet we had was good for us, for every-

News of the Week

-The strike of colliers and railway men in Wales is ended, the companies having acceded to the demands of the men. Over 50,000 men were out.

-Miss Tillie McCrudden of Belleville. while returning home from a visit in sult that in hot weather, when expansion Toronto, met with an accident at the takes place, the sidewalk is thrown up at station there, which cost her her life. It points of least resistance. The expansion appears that the young lady was asleep of concrete is about the same as that of when the train arrived at Belleville and steel, and no railway company would con. only awoke after the cars were in motion template for an instant the laying of a again. The train had gained considerable continuous steel track in which there are speed when Miss McCrudden attempted not joints at proper intervals to allow for to get off near the east end of the plat. this expansion. This is true to the same form. She was thrown between the extent with a concrete walk, and every platform and the train, and terribly care must be taken to first cut through crushed, dying at the City hospital a few the foundation layer of concrete, then hours later. Miss McCrudden leaves a

joint should then be filled with sand to stone has been found on Burnt island, Lake Temiscamingue. This is said to be The surface layer of the sidewalk must the only bed of pure lithographic stone in be laid upon the foundation layer while Canada, and, in fact, will be the only the latter is still damp and before it is set, place in Canada from where such stone otherwise there is not a proper union of will be taken. The most of the stones now in use are imported from Bavaria, The effect of frost on a wet sub-soil and a big saving will consequently be must also be guarded against by the use effected. Burnt taland consists of 1,500 of under-drains, otherwise the upheaval acres, and is said to be covered with the of the ground, under the expanding in- stone. The material is in layers, and fluence of frost, is very apt to crack the stones may be taken out in any sizes. walk. The separation of the sidewalk in- The claim is made that the stone from to flag divisions, however, is also of ser- Burnt island is as good as any now in vice in this respect by giving the separate use. An idea of the value of the lithedivisions an opportunity to rise and sub graphic stone may be obtained from the side with the soil underneath. No de- fact that a slab four feet in width and six pendence, however, should be placed on feet in length, and perfect on both sides

-A terrible hall and rain storm swept Walks are very commonly laid by con- great amount of damage to the crops and such was not the case, and he is now progressing favorably. Several other -Elder, Dempster & Co., will acquire barns were shattered, cattle and other l ection for many years.