# WHEN BUILDING

Use No Stone That Is Larger Than a Walnut.

### ALWAYS NEEDS ATTENTION.

From the Very Instant of Completion Either Gravel or Stone Road Begins to Deteriorate, and the Longer It is Neglected the More It Will Cost to

Following is no extract from "The Maintenance of Gravet and Brokes Stone Bouts," written by Daniel N Lutten. Petrine university, Larayette. Ind., in State's Duty:

"The gravel most should contain no tone barger than a walnut and should contain not more than 40 per cent of the numberial, which may consist of sami and clay in about equal



[Courtery Good Rouds, New York.] proportions. At least 20 per cent of fine material must be present for co-menting purposes and to help make the gravel importions to water.

A. Test. "If after a hard winter's frost the sides of a gravel pit remain steep without caving it may be taken as a satisfactory test that that gravel is

a sultable good metal. "When a leastness man invests money in a business project, such, for instance, as the purchase of houses for realing, he finds it to his interest to keep those lauses in good repair.
If the coof legins to lonk it must be attended to at once or the interior may be ruleed. If furnees or chim ney flues become defective they must be repaired before the dwelling is endangered by five. So it should be with our highways. A good road surface must not only support loads, but It must not us a roof to shield the softer foundation from moisture. A lenk in the surface of a read may be as disastrons to the capital invested as a leak in the roof of a dwelling"

#### Road Deteriorates.

"From the very instant of completion of either a gravel or stone road, that road begins to deteriorate, and the longer it is neglected the more unintenance. What such roads need



CHAVIS HOLD WELL CARED FOR [Court by Good Roads, New York.]

is not a most emount of new material to replace the year due to traffic, but attention and labor. Fifty cubic yards 

plied in such quantities and only when the rout is modify. It should be upperferently the country spread that the farring of taken to keep the corner of the rout to be resulted in a strong of 20 always crowned and all churk holes to 25 her cent of the country to roud. water to homel standing much the read security with the is \$105 per inflet that spots model new road material Laboratored may say that it pays to Even the read in such shape that there your for maintenance. Nothing more would be an apparaintly for water to substitutions than tax has been found. stand onon may postlon of the read has time to vaturate the foundation."

#### DUST LAYING.

Oil Used by Canadian Town to Sprinkle

Consul Augustris G. Seyfert of Owen Sound, Out, says that "the andy lake slure soil upon which Owen Sound is located results in very dusty streets. No matter how much min falls or how much water is sprinkled on the streets in an hour thereafter the dest becomes a unisance and a menace to health. To evercome this the municipal authorities experimented with oil, which proved such a success that now all the prin cipal streets in the town are offed. These thoroughtures are macadamized put on immediately after with the

The objection at first was that the odor from the crude oil was offensive, but to a day or two this disappeared. and the change for the better to dust less streets was recognized by all The first application of oil insted six weeks, and the second application was put on the other day, and what were some of the dustiest streets are

The lown officials state that it will be an annual saving of \$2,000 over the old water system and at the same

\*\*\*\*\*\*\*\*\*

There are no shams in the country, no ward hoslers, no dives, no houses of infamy, no schools of crime. But there are halescribntily awful roads, especially in

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#### GRADES ON HIGHWAYS.

Three or Four Por Cent Stope Advis-

able For Heavy Traffic, A 1 per cent grade on a road means a rise of one foot for each hundred feet of distance traveled up the hill. A 10 per cent grade means ten feet rise in each bundred feet so traveled. A 1 per cent grade, then, means that in traveling uphill one mile an ascent is made of 52.8 feet, while a 10 per cent grade means a rise in altitude of 528 feet in a mile. Accurate tests have shown that a borse which can pull 1,000 pounds on a level road can pull only 810 pounds on a rise of one foot in fifty, and on a rise of one foot in ten be can pull only 250 pounds. These facts show that the greatest lend that can be hauled over a rund es the load which can be taken up the apercest hill on that read or through the deepest mudhole. It is therefore adviced that all highways traveled by heavily londed vehicles should be kept within a 2 or 4 per cent grade if practicable. To do this my require a change of location to net around bills, always keeping in no mind that the lower the grade the larger the load may be hauled and er the cost of hanlage kept at the lowest

\*\*\*\*\*\*\*\*\* Good roads are the earmarks of civilization, the emblem of in-telligence, education and refinement, whereas had roads are the sign of backwardness, indolence and indifferent citizenship.

#### ONE WAY TO BETTER ROADS. Automobile Club Gives Free Drags to

Farmers.

.......................

A plan inaugurated several months ago by the Manhattan (Kan.) Motor cith has been successful in bettering the condition of the country roads in a Hua of ten miles from Monkattan at least 50 per cent, and the plan is ather towns to take it up.

ery furmer who will guarantee to use It to keep three miles of road in good. condition. The club has given away more than forty drags and is getting calls for them at the rate of about four a week.

The club first made the offer several months ago. The farmers were slow n taking advantage of it, but a few D. Coit, advertised the offer in the loby the farmers as fast as the club can in all accrious of the county. They cost the chile about \$6 each.

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* are you in favor of good reads? If hat you don't belong to this age of the world and this town is no place for you,

and it chould be applied before the sound this much for tarring the reads water drive of. The nim should be to that cost \$779 to \$1.000 per talle a stand woon any portion of the read. Two methods are used in applying R. surface. It should have a ready means. If the read is resurfaced the material. of escape to the side disches, and then is previously saturated with tar. On group from disches before it rouds that are not used too mach such legve the door star, and fill draw to a treatment will last five or six years. The other system is to spread hot tar on the surface, and this has proved The sand and oil roads of Callfornia are said to be waterproof.

The sand are said

- The -

# Scrap Book T. E. J. DUFFY

Willing to Halp. "When I was a young fellow, fust beginning the practice of law," said Phisseville - - . One ook Magistrate House, 'two of the oddest characters about the courts were the Cohen brothers. David and Philip. They had a habit of appearing on the opposite sides of the same case. One day when Chief Justice Shay called Cohen answered 'Ready' for the plain-till in one case, and immediately Pullip Cohen answered 'Ready' for the defendant. On the second call David again answered 'Ready,' but Philip answored 'Not ready.' This canned Jus-tice Shaw to say: Why, Philip Cohen, afteen minutes and you were ready. How is it that you are not ready now?

"May it please your honor," replied Princoille. Philip Cohen, I was ready when you first called the calendar, but since then I have learned that my textilor David has afteen witnesses in court, and I have only twelve. I should like up adlournment so that I may be able to go out and get three more witnesse

Wherespon up spells Brother David, Adamson block mying: May it please your honor, if that is all that is weerying my brother Phillip the case can go on I will lend also three of my witnesses,"-New York World.

Serrow.

Count each affliction, whether then or Princelitte, grave. God's toleramper sent down to thee. Do

W.P. MYERS town And ere him shadow pale the threshold O. C. YOUNG CAN'T Permission first his heavenly four to taxe.

Thus lay before him all them hast. All practice in all course, as

No cloud of passion to emire thy brow Or mar thy hospitality, no wave Of mertal tangent to childrente The source marmorest estimates. Grief should be: Like by, majestle, equalite sedate, logificating eleanning relating to

Tree; Strong to consume small troubles, to com-Great thoughts, grave thoughts, thoughts that the state of the end.

-Aubrey de Vere. Hamilton Stables.

A Familiar Warning. Mrs. Jones' favorite warning to her young progeny when they were in mischief was that she would foul to them in a minute. "Tending" was accomplished by applying her open hand where it would do the most good was sent for the first time cound the corner to the grocety. In a few min-utes he came truthing substry back with the ment still in his hand, but What's the matter?" asked his moth-

"I'm 'fraid of the man," he said

"Oh, he won't burt you." reassured Mrs. Jones. "Run along and bring the onions. I'm in a hurry for them." A second time Harry disappeared round the corner and a second time cerumed withour his purchase.

"I'm 'fraid of the procer man," he explained as hefore.

"Well, what makes you afraid of Fred A files, C. E. J. R. Seville, Jr., E. M.
"Well, what makes you afraid of Fred A files, C. E. J. R. Seville, Jr., E. M.
County Surveyor, Deputy Co. Surveyor, him?" demanded his mother impa-

"Why," answered the little fellow. "bofe times when I good in he looked at me un' said. "I'll tend to you in a minute!"

A Confersion.
The late Father Ducey was once 977. C. Brink gozorly sought, while hearing confes

There was a tong line of positions so inexpensive that the club is urging in the church, and the reporter saw The club gives a road drag to ev- that the only way to get a speedy hear At last his turn cause, "Eather Jon cey," he began, "I'm a reporter for the

New York Daily Blank" - "My son," interrupted the cierie "even that might be forgiven."

Admitted His Facilitiness. It was in Carse Payton's your days ago the slub's president, Dr. J. days as a manager, when his highly in teresting ecountricities were beginning of newspapers, and the result has to distinguish him. He had appeared been that the drags are being taken in a small city with his company and was already indulated his habit of got them made. The club has placed making speeches before the currain, no limit on the territory in which the The cultur of the leading paper in the offer is most, and the drags are in use town attended the performance, after which, in the applent manner of his kind, he went forch and wrote a billing place for his paper, which may be called the Hernid.

"Corse Payton," wrote the editor, "Is a foot. He howks like a fool and ners like a fool"

This, thought the editor, will emberrass Corse Payton, who will be careful hereafter how he need Yet the next day the billboards bore

tills in this wise: "Corse Payten by a foot-Heraid." Of course Corse Payton is a fool fo giving a Gollar show for 10, 20 and 30

Scotch Stories.

It was into in the afternoon who the Scorch minister arrived at the farmhouse. The housewife surrested ten before engaging in "exercises." un," said he. "I uye tak' my tee bette When my work is done. I'll just he close in the prayer when I hear the  ${\rm fmam~figzin',''}$ 

Another woman of Scotland when

Trofesst nat Cards.

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