

WOUNDED SOLDIERS FED IN BED



These wounded heroes have just returned from France and been received at Debarkation Hospital No. 3, New York city. They are bed patients and food is served to them in bed.

BRIEF INFORMATION

About one-half of the population of Turkey is unable to read or write. It has been computed that eight or ten rabbits eat or destroy as much grass as one sheep.

DAREDEVIL ENGLISH WOMAN



At the "holiday flying" at Cricklewood, England, recently Miss Sylvia Borden demonstrated that women have plenty of nerve and grit. She went up in a Handley-Page airplane and dropped to earth in a parachute.

Unchanged by Centuries.

The Turkish and other Mohammedan villagers from the Thracian plains are retracing the steps of their ancestors of five centuries ago and leaving Europe to return to Asia. And the weird part of it is that in costume, conveniences and manner of life there has been practically no change in these 500 years. The wheels of their long, narrow carts have spokes in them now whereas they used to be solid wheels, and perhaps the rush matting that protects the family from the weather may be a little better woven. But the oxen or buffaloes that leisurely drag the household along, and the barefooted wife of the sandaled husband with the goad who pulls these lumbering animals by a string, and the primitive mode of life on their plodding journey, all belong to a bygone age.

Fence Built of Trees.

So many years ago that nobody knows when it was, nor who was the labor-saving genius who did it, a fence was built in Michigan by forcing split boards between saplings. Then the trees grew.

They kept growing until today they are of immense size and deeply imbedded in them are the ends of those old rails. It is impossible to tell how far they extend into the tree trunks. They are weathered, yet they ring as true under a hammer as though just hewn.

It happened that the trees formed a boundary line for one of the old tracts. The rails were arranged five feet, and the growth of the trees around their ends has created one of the most substantial fences imaginable.

Plants Are Prolific.

If all the seeds of any one sort of plant were allowed to grow they would soon cover the earth to the exclusion of all else. A single orchid plant produced more than 10,000,000 seeds in a season and many common plants, as the foxglove, vary nearly equal this remarkable record.

Ring Fingers.

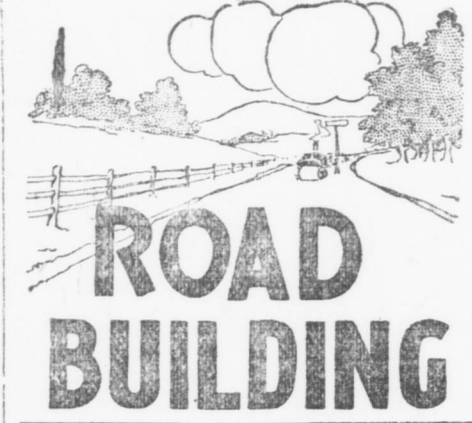
The third finger of the left hand is "the" ring finger; that is the engagement ring is worn there, and the wedding ring. Rings may also be worn on the little fingers of each hand.

Cause of Trouble.

"What makes some of de trouble," said Uncle Eben, "is dat a man's liable to git mo' neighborly applause for winnin' six bits in a crap game dan for earnin' two dollars by workin' de same amount o' time."

Ranch owners in South Dakota are planning to use airplanes to trace lost cattle and sheep.

A bill to provide a minimum wage for women workers has been introduced in the legislative assembly at Quebec, Can.

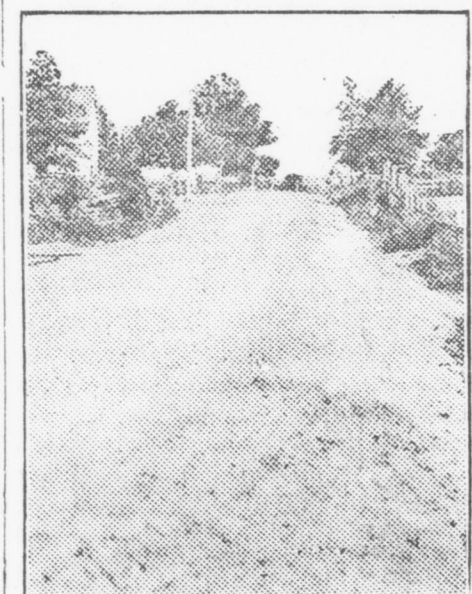


FIRM FOUNDATION FOR ROADS

Aim to Distribute Pressure Due to Wheels Concentrated on Surface—Look to Future.

(Prepared by the United States Department of Agriculture.)

The purposes of a foundation are to aid in distributing the pressure due to wheel loads concentrated on the road surface, so that the intensity of pressure on the subgrade will not exceed a safe unit-bearing power, and also to prevent, if possible, the crust of the road from being disturbed by the upward pressure of the subgrade due to the action of frost, ground water, or other disturbing influence. In the case of a pavement consisting of comparatively small blocks, such as vitrified brick, bonded to each other very slightly or not at all, an entire wheel load might be concentrated on only a few



Sand-Clay Road.

square inches of foundation, in which case it would be necessary for the foundation to take care of practically the entire distribution of the load. On the other hand, a monolithic pavement, in which the individual units are well bonded together, might distribute the wheel loads to obviate all necessity of further distribution by the foundation, and if adequate drainage were provided and there were no danger of heaving of subgrades, the foundation might be omitted entirely.

The heaviest vehicle that ordinarily has passed over a public highway heretofore is the 15-ton traction engine. Such engines are so designed that the rear axle carries about two-thirds of the total weight, which arrangement gives a concentrated pressure on the road surface of about five tons under each rear wheel. The use of much heavier equipment is in sight, however, and unless some regulations be passed to prohibit it, the occurrence of ten-ton, or even heavier motortrucks, may become common on highways adjacent to large cities or between large centers that are only a few miles apart.

In assuming the maximum wheel load for any particular road a reasonable allowance should be made for future increase. Since motortrucks have come into use there has been a constant tendency to increase both their rates of speed and the loads they carry, and it is probable that this tendency will continue. Furthermore, many roads not now subjected to motor-truck traffic will attract such traffic after they are improved, and this possibility always should be considered. Increase in the volume of traffic also may be an important factor.

ROAD BUILDING

DRAINAGE FOR GOOD ROADS

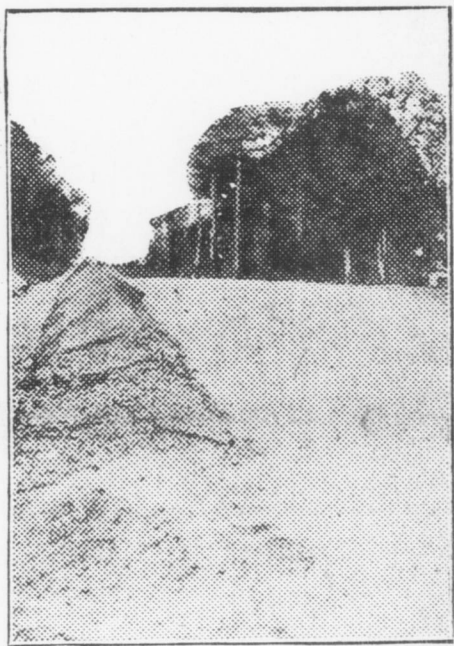
Essential Feature of an Improved Highway—Another Requisite Is Firm Foundation.

(Prepared by the United States Department of Agriculture.)

An essential feature of an improved road is adequate drainage. Thorough drainage is so necessary that it is practically impossible to maintain a satisfactory road unless it be given proper attention. Another prime requirement wherever a hard surface road is to be constructed is a firm and unyielding foundation. As the quality of the soil has an important influence on the proper method of drainage and the type of foundation to be employed, much care and study must be devoted to the nature, type, and character of the soils in the section through which it is proposed to build a road.

The most important primary soils are classified as gravel, sand, and clay, but often many of the secondary or mixed soils, because of their more general occurrence in connection with road-building operations, are equally important. Such types as loam, marl, gumbo, and hardpan are representative of this order.

In the design of a road the drainage structures are planned to take care of water under three general conditions—rain that falls on a road surface or grade; rain that falls on contiguous land and flows in accumulated volume toward the road; and ground water from any immediate source. To meet these conditions use is found for special structures, including longitudinal side ditches, usually parallel, or approximately parallel to the center line; intercepting ditches to accommodate water whose approach so close to the roadway as the side ditches is likely to cause injury; lateral ditches or culverts to conduct accumulated water away from or under the road; and subdrains. In order to plan intelligently a system of drainage for any particular road, it is necessary to con-



Water Drains Readily From This Type of Highway.

sider not only the local character of the soil composing the roadbed, but also the topography of the adjacent land, the amount and rate of rainfall and the availability of material suitable for use in constructing drains.

Surface drainage systems for roads consist of side ditches along the road, paved gutters (which are a development of side ditches and replace them) open intercepting ditches constructed to prevent water from reaching the road, and lateral or relief ditches to carry off the water which collects in the side ditches or in the intercepting ditches. Culverts and inclosed drains, which are constructed for the purpose of removing storm water from the side ditches or gutters, are essentially a part of the surface drainage system, and are not to be confused with subdrains which serve an entirely different purpose.

Where the grade of a road is so steep that the ordinary earth side ditches cannot be maintained satisfactorily at a reasonable cost, or where earth side ditches would be insanitary or appear unsightly, it is customary to provide paved gutters for removing the surplus water.

Drop inlets and catch basins are used to conduct water from side ditches or gutters into underground drains or culverts. On country roads they are used most frequently on side hill locations where the water collecting in the upper side ditch or gutter can be removed from the road at intervals by means of a culvert across to the lower side. Drop inlets usually are sufficient, and catch basins seldom are used in country road work, except where it is especially desirable to prevent the silt and other foreign material carried by the water from getting into the underground drainage structure.

GOOD ROADS PREVENT FIRES

National Forests Must Be Equipped With Highways Trails and Look-out Stations.

National forests cannot be economically and efficiently protected against fires until they are well equipped with roads, trails, telephone lines and look-out stations, says the annual report of the chief forester of the United States service.

ROBERT G. HAND



Robert G. Hand of Mississippi, who has been appointed assistant treasurer of the United States. When the war broke out Mr. Hand was the principal bookkeeper in the office of the treasurer.

Theatrical Happiness.

Some one at the Lamb's club once asked George Cohan, the player, to define his idea of happiness. "Well," said George, "the term 'happiness' must, of course, carry a different notion of different people—for instance, folks in different lines of human endeavor would naturally have each their own notion of the meaning of the word. As an actor, I may say that my idea of true happiness would be to lie on a luxurious couch before a fine fire on a winter's afternoon, smoking a large Havana cigar presented to me by some admirer, while I listened to a woman who worships me read flattering press notices about my acting."

"Czecho-Slovak," little Bohemian dog presented to General Cardona, who then commanded the Italian army, by an Austrian deserter. General Cardona gave him to H. L. Booth of St. Paul, Minn., a "Y" worker, who has been in Italy over a year. He and the dog arrived in America recently.

American Triumph.

Before the war, exports in dyestuffs from the United States were \$500,000 a year. In 1918 the figures ran to \$17,000,000. American textile manufacturers, when the war broke out, were panic-stricken, because they believed that Germany was the only country that could produce fine dyes. American chemists, however, came to the rescue and are now producing dyes better than the German.

No, but They Think It Is.

"I fear these two citizens are having a warm argument about the war." "You are mistaken. Each is trying to convince the other he has the better furnace."

"Is that anything to quarrel about?" "It would be if they had the same make, but they haven't, and since each one regards himself as an authority on heat units, hostilities are liable to begin at any moment."—Birmingham Age-Herald.

Gabriel D'Annunzio, eminent poet, author and playwright, has won great distinction as a member of the Italian aviation corps. He has been cited for bravery several times and has frequently inspired the Italian army to greater efforts by his valor. Recently he was given the military cross by King George of Great Britain and a silver medal by the king of Montenegro. D'Annunzio entered the service as a lieutenant, but was promoted rapidly. He lost the sight of one eye in an airplane accident last year.

Egypt Celebrated for Wheat. Egypt in ancient times was celebrated for the growth of its wheat. The best quality was all bearded. The seven-eared quality was described in Pharaoh's dream (Genesis 12:22).

To Remove Grease Spots.

To remove grease spots from carpets, mix fuller's earth and magnesia together in equal proportions by scraping and pounding. Form this into a paste with hot water and spread on the spots. The next day brush it off and, if necessary, repeat the process.

Lost Motion.

"I've climbed these stairs six times to see you, sir," said the bill collector. "Too bad, too bad," murmured Mr. Jobbles. "Now, what do you think of that, sir?" "Um, Well, I guess that comes under the head of lost motion."

Plants on Defensive.

Though some plants assume the offensive and catch insects for food, others act on the defensive to protect them from being used for food. This special provision accounts for the presence of thorns, spines, stinging hairs, etc.

Taking All the Smell.

Dolly and Dick had saved their pennies and bought their mother a bouquet. In carrying it home Dolly kept smelling it constantly till finally Dick said: "There won't be no smell left for mama when we gets it home."

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Taxes.

If folks had to pay taxes on anything, this would be a smilier world than it is.

Pope's Poetry.

His poetry is not a mountain-tarn like that of Wordsworth; it is not in sympathy with the higher moods of the mind; yet it continues entertaining in spite of all changes of mode. It was a mirror in a drawing-room, but it gave back a faithful image of society, powdered and rouged, to be sure, and intent on trifles, yet still as human in its ways as the heroes of Homer in theirs.—Lowell.

Burning Truth.

Said the facetious feller: "These golf fanatics get a lot of satisfaction out of reducin' their strokes from last season, but the real joy of life comes from bein' able to reduce the number of tons of coal from the winter before."

Salute to the Flag.

The salute to the flag is given by raising the right hand, palm outward, until the index finger is even with the lower edge of the forehead, and standing at attention.

Production Wins.

Wealth does not come by the most diligent saving, but by the most diligent producing. Men and nations who pinch the pennies hardest are never the richest.

Beef Suet Not Indispensable.

Norway has discovered that beef suet is not absolutely necessary to the manufacture of margarine. Cod liver oil, herring oil and other fish oils are said to be excellent substitutes.