READ THIS VERY CAREFULLY

Then Put It Away to Be Read Maintain Dirt Roads.

years - perhaps, generationspublic roads are surfaced with fields. macadam, or sand-clay. For this reason it is very important that we should give very careful consideration and thought to for taking care of the water, in the constructing of the road, the construction and mainten- and thus they are very muddy and, when cleaning out ditches, ance of the dirt road.

SHOULD BE BUILT UNDER SUPER-VISION OF ENGINEER.

ground, and our people are beginning to realize that road construction, even of dirt roads, requires the services of men who have been trained in this line of work. As careful thought should be given to the construction of dirt roads as is given to the hard-surfaced roads; and in those counties which rely on just the labor tax for the construction of their public roads a great advance can be made if this labor tax is utilized under the supervision of an experienced road engineer.

LOCATING THE ROAD.

The location of any public road is the only permanent portion of the road; therefore, great care should be taken that when the road is once constructed there should be no question whatever regarding its relocation. In locating a road it should be done so as to permit should be kept of dirt, and In repairing a dirt road: of an easy grade—none over whenever any holes or ruts have Don't fill up the holes and ruts 4 1-3 per cent-and should be developed in the road, they in the dirt road with brush, with constructed so that it will readily should not be filled up with rocks on top, and a little dirt shed the rainfall. How often stone, or brush, but with dirt, to cover the rocks; but fill up the do we see a road going up hill and with dirt as nearly as pos- holes with dirt of same charand down the other side, when, sible of the same character as acter as the balance of the by building around the side of the dirt composing the surface road. at an even grade, reaching the on the other hand, holes or ruts from the ditches into the middle identical point within the same are filled with rock, gravel, or of the road, thus softening the

any grades over 41-3 per cent., begin to scoop and cut out by previous work; but throw this it will be necessary to construct holes just beyond or on the op- material out on the opposite side across the surface of the road a posite side of the road from the of the ditch. V-shaped surface ditch to turn hole filled up. If there are Don't leave the center of the the water off the surface of the stumps or rocks in the road road the lowest point; but make road, for if this is not done the they should all be removed, so it the highest and give the surwater will, with the grade over that the dirt surface can be face of the road a slope 4 1-3 per cent., have momentum smoothed over and brought to an of about 1 in 20 to the side ditch. enough to seriously gully the even slope from the center to Don't carry the water across surface of the road. No matter the ditches. After the road has the surface of the road from how carefully the V-shaped been well constructed and the one side to the other; but carry ditches across the surface of a right slope and surface obtained, it by means of culverts underroad are constructed, they are it can be kept in this condition neath the road. hard on the wagons, and should cation of the split-log or King road over 4 1-3 per cent; for be avoided wherever possible. drag. This simple road machine, if you do it will be necessary to They can be avoided if the grade if used regularly after a rain build V shaped surface ditches or

DRAINAGE.

surfaced roads; therefore great and holes and will keep the dirt an honest day's work on the care should be taken to work road in first-class condition, with road. Let us eliminate what is out an efficient system of drain- hard surface, throughout nearly often seen in those sections where age for the road. Water must the whole year. be kept away from the road, ROAD SHOULD NOT BE SHADED. labor tax-ten or twelve men and Again and Again—Advice From and the rain which falls on the As moisture is very detrimenan overseer, little gray mule, a Expert on How to Build and road must be permitted to run tal to a dirt road, the sun should small plow, six dogs, three or When we stop to consider the a very easy grade. It must not face of a dirt road as much as often are not considered worth number of miles of road in any only be taken off the surface of possible; and, therefore, care using at home. This road force county and compare this num- the road as rapidly as possible, should be taken not to have too is not only hard on the rabber with the small number rep- but also out of the side ditches. much shade along a dirt road, bits, but also hard on the resenting the miles of specially Care should be taken that these and, where necessary, the trees roads. surfaced road we can readily side ditches are not too steep, should be cut away so that the see that it will be a great many and that every opportunity is whole surface of the road is because it is a cheap road maseized for turning the water out exposed to the sun for at least chine, but use it constantly, for before all, or even half, the of the ditches into the adjoining several hours during the day. it is the most efficient road ma-

> bad because in their construcunder the surface of the road, ing it down the road! there should be little difficulty

IN REPAIRING DIRT ROADS.

become stopped up.

the hill, it could have been kept of the balance of the road. If, Don't throw all the refuse distance, or but a little greater. brush, the wearing effect will surface and destroying the solid, If, in grading a road, we have be uneven, and the wheels will firm bed that you have obtained very inconvenient to travel, are very readily by judicious appli- Don't have grades on your is kept below 4 1-3 per cent. when the roadbed is wet, will "Thank-you-mam's" across the

OVERSEERS of course, any of the specially The drag will fill up the ruts make a holiday of it; but give surfaced roads: therefore great and holes and will keep the dirt on honort day's

off as rapidly as possible, and by be permitted to strike the sur- four guns, and a few tools which Many of our country roads are road, but bad for a dirt road.

In repairing a dirt road the tion no arrangment was made same thought must be given as and filled with ruts and holes. the material should not be When properly constructed, Instead of the middle of the thrown into the middle of the Try it. For sale by all dealers. the dirt road can be kept in good road being higher than the road or on any part of the surcondition throughout nearly the edges, so that the water can face of the road, but it should whole year, except, perhaps, readily run off on each side, be thrown into the adjoining during periods of severe freezes many of them are flat, or even fields; for this material is usand thaws. At the present time concave, with the center of the ually composed largely of fine we have very few earth roads but road the lowest point. If the silt and vegetable material, what can be improved, and us- road has been constructed so which holds moisture like a ually the question of the im- that it is well crowned, with the sponge and becomes very diffiprovement is not a very difficult slope about 1 in 20 from the cult to dry out, and is entirely center of the road to the side different in character and conditches, and these side ditches sistency from the dirt surface have been graded so as to of the road. How many times rapidly take care of the water, we have seen the dirt road rebuild a dirt road is fast losing and yet not steep enough to paired by this material being cause them to cut deep gullies thrown up into the center or on the side of the road, and if just beyond the edge of the the water is taken from these ditch, thus preventing the surditches at every available point face water from flowing into so as to prevent seepage of water, the ditches, and, instead turn-

> In the maintenance of our dirt in keeping the road in good con- roads they should be divided into dition. Very often it is neces- sections, with a foreman or oversary to carry the water from seer in charge of each section, one side of the road to the other; whose duties should be to go and when this is necessary, it over every mile of his section should be done by means of after every rain and at least either concrete, metal, or terra- every two weeks, and wherever cotta culverts or pipes which he finds a portion of the road will carry the water under the needing repair, he should have surface of the road. After the it done. After each heavy rain system of drainage has been in- he should run a road drag over stalled, provision should be the road to put it in shape and to made to keep it up, so that the fill up any ruts or holes that drains and the culverts will not might have been started. We must bear in mind that roads HOLES OR RUTS MUST NOT BE will not maintain themseves, and FILLED WITH STONE-DON'TS that repairing a road simply once a year will not keep it in The surface of a dirt road good condition.

smooth and shape up the road, road.

The dirt road is more suscep- so that as soon as it has dried Don't, in working out the latible to damage by water than, out it will be firm and hard. bor tax on the roads, try to

the roads are maintained by the

Don't reject the split log drag Shade is good for a macadam chine that we can use in maintaining the dirt road.

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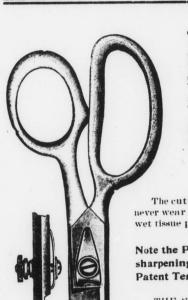
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