

For lock of knowledge of the more simple methods of bridging small streams, tank units have frequently been held up when a safe and useful structure could have been slung across a water-course with comparatively little trouble available close at hand, and in any case relatively small quantities of material would be required. The construction of small bridges and reinforcement of existing struc-lures is discussed in the following article by Cpl. J. L. Gallie

bridge up to 30 feet in length by using timber growing on the spot. A bridge of this length capable of supporting a diameter of 12 inches, arranged in pairs with a space of 6 feet between pairs and 2 feet between individual trees. piles can be dropped in sills to take the spring in the centre of the bridge. The stringers must rest on sills at either sized sawn poles will do the job.

pier be necessary, the size required would be 10 x 10 with 12×12 cap. No bracing is necessary on a short span, and decking should be of 9 x 4 hardwood. Sills must be

length as the sill and 4-5 ft. wide.

the parts could be bored, cut to fit, and supplied with bolts so that it could be transported and assembled at short notice. It should be possible to carry all the parts on one

reinforce a two or three-span bridge with a five-ton load limit the most simple procedure would be to sling heavy original piers and abutments, however, be in poor condition, the only feasible alternative in most cases would be to build a new bridge. In suitable country it might be posible to drop new piers on sills and wedge them under the

If the material is availbale, it is much faster to strengthen a bridge as outlined above than to attempt to brace it dition, each stringer should be braced to each pier, with

Steel is out of the question for work of this type owing to difficulty of assembly nor is it necessary, since timber will take any likely strain. Use of rolled steel joists would take considerably more time since spiking-pieces would he required to secure the decking. Steel is also much more

THE WEAL OF THE DRAGON IS SPOKEN

Extract from R.O. No. 142, dated 3/9/42:-

"The design of the Dragon Rampant has been approved

The Dragon has been traditionally distinguished in

The requirements of a dinkum N.Z. Trooper. Are somewhat large and varied it is plain;

Yet they make 'em from a grocer or a cooper,

From our Brigade he soon gets his retirement To earn an honest living-or the dole.

For MOBILITY, TENACITY, and CUNNING, With OFFENSIVE SPIRIT also in the running, Are fundamental qualities

And not absurd frivolities,

When for the Japs, or sim'lar chaps, we go a-gunning.

A dash of brainpower and a spot of brawn, ("Tis helpful to possess ersatz credentials)

A Trooper of the bold Brigade is born We're bundled to a camp in the North Island

Where men are men, and women are so few: We're bossed about and drilled—(tho' not on dry land) Ere we become a member of a crew.

For MOBILITY, TENACITY, and CUNNING, With OFFENSIVE SPIRIT also in the running, Are inherent to our training Ere they let us start in braining

Now MOBILITY—the first of these achievements And tha' there may be one or two bereavements,

We're not in camp a week—it's seldom longer,
When dysentry will strike us in a flash;
And this urge (and there can't be many stronger)

For MOBILITY, TENACITY, and CUNNING, Are included in our training Ere they let us commence paining

Huns or Japs, when for these chaps we go a-gunning.

Acquired it until it becomes a habit, TENACITY is easily inspired,

(No more we need scuttle like a rabbit). TENACITY's the trait of holding tightly—

We learn this by experience alone-Possessions we must hold—nor hold 'em lightly.
Or we never have a stitch to call our own.

For MOBILITY, TENACITY, and CUNNING, With OFFENSIVE SPIRIT also in the running. Are taught—They call it training! Questionmark?—Ere we go maining Huns or Japs, when for these chaps we go a-gunning.

And so we come to number three essential. That's CUNNING (which is found in all intrigues),

And this we learn in dodging pestilential And never-ending Camp and Block fatigues. From day to day we think up fresh excuses Of how we can the sergeant's mind befog,

And in spite (or p'rhaps because) of his abuses We learn the CUNNING of a Maori dog.

For MOBILITY, TENACITY, and CUNNING, With OFFENSIVE SPIRIT also in the running, Are factors consequential So we'll not be deferential

When for the Japs, or sim'lar chaps, we go a-gunning.