505

Reference.....

W. P. Bowles.

R.I.

11/13a

Mr. K. Choate,
A.C.E.,
S.W.O.

N.I.E.N.S. Roads

Road Surfacing

The total area of bare reinforced concrete roads is 30,000 square yards. Possible surface treatments are:-

1. Tarspray and chip

This will improve the appearance of the roads. Different coloured chippings can be used if some particular effect is required. This type of treatment will do nothing to eliminate ponding and will make the drainage worse by substituting a rough surface for a smooth one.

Cost 1/6d. to 2/6d. per square yard depending on the aggregate used.

The surface will have to be dressed with more tar and stone at 3 to 5 year intervals.

2. Fine cold asphalt

A single coat of fine cold asphalt ½ to ¾ inch thick will cost about 5/- to 7/- per square yard.

Some improvement in drainage can be effected by varying the thickness of the surfacing on low spots.

The riding quality will be improved but the surfacing will crack over the concrete joints in a few years.

Expected life 5 to 10 years.

3. Two coat bitmac

2" thick total. If required the wearing course can be fine cold asphalt as above.

Total cost 10/- to 12/- per square yard.

The greater thickness of surfacing gives more scope for correcting irregularities in the concrete surface and a two coat job should give a superior riding quality.

Cracking over joints should be less serious than in 2. above, but is still to be expected within a few years.

/cont...

Code 18-75

4. Hot rolled asphalt

4" of this material will effectively prevent cracking and should last 10-15 years without maintenance.

However, as the original M & M design allowed for only two inch surfacing, it would be necessary to lift all kerbs to put 4" on. This would be expensive and lead to difficulties at doorways and entrances.

To summarise:-

1. will improve appearance but not drainage.

2. & 3. will in addition improve drainage conditions.

4. is not really practicable.

I am of the opinion that the roads are adequate for their purpose and I would recommend that they are left alone. If something must be done, I would think that 2. is the best value for money.

J. Johnson,
Senior Civil Engineer

S.W.O., Tadley,
1.6.62.

Code 18-75

505

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R.1.

11/13a

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Total cost 16/- to 12/- per square yard.

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/cont...

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