

CASE STUDY

Type 2 HGV Route

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‘recycling over deep re-inforcement grid’

Scheme: Queen Adelaide Way, Ely
Authority: Cambridge County Council
Client: Skanska
Date: October 2014
Area: 3400 m²
In-Situ Process: 200mm over Triax grid
Surface: 40mm Asphalt over 60mm Binder
Carbon Saving: 52 tonnes



This was a major reconstruction of a failed road which was achieved within programme and the clients budget, without the need to carry out lengthy and costly reconstruction.

This was 1 of 3 schemes using in-situ road recycling in Cambridge. However a different approach was used on this particular road due to excessive amount of movement.

This is a common problem within the fens at Cambridge, so the solution was to strengthen the road whilst trying to alleviate future failures.





Through early contractual involvement with Skanska all the necessary investigation was carried out to establish the suitability of the material in line with the ADEPT code of practise.

Once all the results were available we were able to table a solution to the issues on this road. Work commenced on Friday night, planning off an area of 1630m², on the Sunday night the remaining 1630m² was planned to a depth of 150mm.



2 crews worked over the weekend to meet the deadline. The area of the road showing severe movement which covered an area of 500m² was planned out to an addition 250mm in depth. This material was stockpiled on site.

Once the material was removed TriAx geo-grid 61 was laid over 500m². The material that had previously been stored was used to backfill on top of the grid in layers, then compacted.

The full 3260m² was deep recycled to a depth of 200mm, with a 60mm binder course and 40mm wearing course laid by Skanska.



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