

CASE STUDY

Type 2 Road Haunch & Full Width

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'increase in HGV traffic, requires deeper structural treatment to provide long term solution'

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| Scheme: | Hordley, Ellesmere |
| Authority: | Shropshire County Council |
| Client: | Ringway Infrastructure Services |
| Date: | October 2014 |
| Area: | 6750 m ² |
| In-Situ Process: | 220mm HBM |
| Surface: | 60mm Asphaltic Concrete |
| Carbon Saving: | 94 tonnes |



This scheme, identified by Shropshire Council was part of a larger programme of work to repair some of the county's roads.

The original proposed treatment for the scheme was reconstruction of a number of damaged areas by conventional patching / haunching, followed by surface dressing the following year. This work would have taken 4 – 5 weeks to complete requiring a full road closure.



Woodhouse Drive is a C class rural road, however it is the main route in from the A5 to the Anglo Beef Processing Plant, which has recently doubled in size becoming one of the largest in Europe. This obviously meant large volumes of HGV's having a big impact on local villages and townships in the duration of the proposed 4 – 5 week closure.

By contracting SPL to look at Structural in-situ Road Recycling works, Shropshire County Council were able to reconstruct their road within budget! With a greatly reduced closure time of 1 week.

The road was already showing signs of stress, and now with the expansion of the Processing Plant there will be an increase in the number of HGV's and cars using the road. Shropshire identified that improvements needed to made!

It was agreed deep recycling would be the right solution using the combination of full width and haunch recycling in the areas where the pavement had failed.

SPL also recommended the use of a geo-grid in the areas of the haunch to give added support to the edge of the road..

On completion of the recycling a 60mm AC 20 dense bin 100/150 PSV62 was overlaid through the whole scheme.