

# CASE STUDY

## Type 4 Rural Road

‘road with soft foundation enhanced through incorporation of composite reinforcement’

**Scheme:** Station Road, Ashcott, Somerset  
**Authority:** Somerset County Council  
**Client:** Skanska  
**Date:** May 2016  
**Area:** 1750 m<sup>2</sup>  
**In-Situ Process:** 200mm HBM plus CG Reinforcement  
**Surface:** 45mm Hot Rolled Asphalt  
**CO2 Saving over Traditional Recon:** 22 tonnes



North of the A39 Bath Road and approximately 4km from Glastonbury, Station Road runs through a section of The Brue Valley Living Landscape, which is part of the Somerset Levels – a low-lying region of north and central Somerset bisected by limestone ridges and hills.

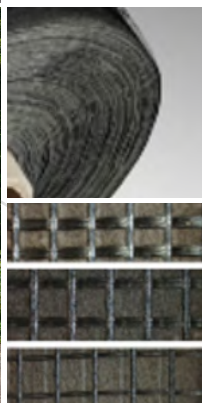
Station Road is located between Ashcott and Meare and provides access to the excellent Ham Wall National Nature Reserve which is managed by the Royal Society for the Protection of Birds.

This narrow rural road with a speed limit of 60mph had structural failures in the carriageway, some which had previously been patched. These failures were evident through misshapen surfacing, surface cracking and collapsed edges.

The existing material was found to be aging asphalt at an average thickness of 70mm, below this was an unbound Type 2 stone. Also discovered was a 50m long concrete bench approximately 1m wide by 200mm thick, thought to be a historic repair to a collapsed section of carriageway.

The in situ recycling of this material took place over 2 days and marshalled access was maintained throughout the works, for residents and visitors alike.

Overall SPL recycled over 350 m<sup>3</sup> of material within Station Road – an amount of material which would have filled over 35 20T Trucks – that’s potentially 70 lorry movements to remove and replace the failed structure through this most peaceful area of natural beauty.



In order to minimise future impact on the surface a Composite Asphalt Re-inforcement System (Grid) and moisture barrier system was installed as part of the reconstruction over the recycled Hydraulically Bound Material (HBM). A proven addition to the rejuvenation of the structural properties, it is installed in order to extend the life of the completed asphalt and structure.