

# Case Study

## Stratagrid SGI40, Rivel Facing Units, Landlok Cock Lane Clavering Nr Saffon Walden



### Location:

Cock Lane  
Clavering  
Saffron Walden  
CB114QL



### Client:

Essex Highways / Environment  
Agency



### Contractor:

Ringway Jacobs

### Installer:

Topbond PLC



Fleming Road  
Harrowbrook Industrial Estate  
Hinckley  
LE10 3DU  
Tel. 01455 617 139  
sales@geosyn.co.uk  
www.geosyn.co.uk

**Cock Lane is a small rural road between the villages of Clavering and Starling's Green. The route forms a secondary connection between the two villages. The River Stort runs parallel with the road and its tributaries cross under the road at various locations. Due to erosion of the riverbank it was identified that the road foundation was in danger of failure. The road was closed under an emergency closure for approximately 400m with only pedestrian traffic allowed access.**

A reinforced soil wall solution was proposed to retain soils above a gabion wall which was located at the toe of the river bank. The use of a reinforced soil wall reduced the amount of excavation required when compared with the use of a gabion wall and facilitated a vegetated solution which was desirable for the site.

The structure was installed in under a week and the use of Rivel formwork allowed the contractor the ability to maintain a consistent slope angle of 70 degrees along the structure. The structure was designed to accommodate a surcharge of 20kPa from the traffic loadings from the road. The solution formed part of the works which enabled the reopening of the road which had remained closed since 2016. Due to the time constraints and the importance of getting the road reopened Geosynthetic were required to develop a suitable solution in a short space of time, the calculations and drawings were completed in little over a week and the proposal was approved by both Essex Highways and the Environment Agency. The materials used in the solution were available from stock which assisted in the scheme being delivered on time.





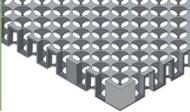
2 in 1  
Landscaping Fabric



Gas Membrane  
Radon, CO2, Methane,  
Hydrocarbon Control



RoofCell  
Sub Surface Drainage  
And Water Storage



Alert®  
Contamination Indicator



Geoglas®  
Asphalt Reinforcement



Stratagrid  
Soil Reinforcement Geogrid



AquaBlock®  
Water Containment Liners



Geomembrane  
Impermeable Membrane



Strataweb  
Slope Stabilisation



Bentotex® GCL  
Geosynthetic Clay Liner



Golpla  
Grass & Gravel Paving System



T-Block  
Modular Retaining System



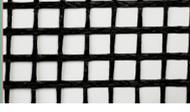
Cellweb® TRP  
Tree Root Protection



Golpla Pregrown  
Ready To Lay Paving System



Telegrid  
Woven Polyester Geogrid



DuoDrain®  
Composite Drainage Product



Interlock  
Extruded HDPE Geogrids



Televev  
High Strength  
Woven Geotextile



Erosion Control  
Comprehensive Range



Knotblock®  
Japanese Knotweed Barrier



Tenax  
Soil Reinforcement Solutions



Ekotex®  
Non Woven Geotextile



Landlok  
Turf Reinforcement Mat



Total Traffic Exopave  
Heavy Duty Paver



Fiberforce®  
Equestrian Geotextile



Nicospan  
Erosion Control



Trinter  
Erosion Control Mat



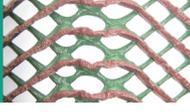
Fibertex  
Non Woven Geotextile



Rhyno®  
Woven Geotextile



Turfmesh  
Grass Reinforcement



Flexitex  
Textile Shuttering



RockBox  
Gabion Mattresses



RootBlock  
Root Barrier

