Truro Eastern Park and Ride Case Study

Truro, Cornwall, UK

2015

In 2008 Truro opened Cornwall's first permanent park and ride facility in order to reduce the amount of traffic and congestion going through the town.

The project won a number of accolades including the British Parking Awards 2009 'Best Surface Car Park', and CEEQUAL awards including 'Excellent' status with an overall rating of 87.8% in 2009, 'Highly Commended' for the Landscape and 'Highly Commended' for the Ecology and Biodiversity in 2011. Following the success of this project, Cornwall County Council embarked on creating the Truro Eastern Park and Ride facility which was a £9.6million scheme funded by the European Regional Development Fund (ERDF) Convergence Programme, the Housing Growth Point, the Regional Growth Fund (RGF), and the Local Transport Plan 3.

This site comprises the provision of 1800 car parking spaces and spaces for coaches, which is anticipated will achieve a 15% reduction in traffic entering Truro.

As with the original scheme, the design focused upon the importance of sustainability and enhancing/protecting the local habitat and landscape, and ABG supplied a range of geosynthetic based solutions to embrace these key principles.

This major Park & Ride project was successfully completed in Autumn 2015 and further adjacent development is planned - including a residential area, a Household Waste Recycling Centre and a Waitrose superstore.

Project information

Main contractor	Cormac Contracting Ltd
Client	Cornwall Council
Products	Sudspave 40, Trukcell 80, Fildrain, Terrex NW9
Quantity	17, 000 m^2
Benefits	• A Cost Effective SuDS Compliant Solution incorporating grass and gravel porous paving.

To minimise the impact of the development on the surrounding area, which included a number of protected trees, Fildrain was used to provide subsurface drainage in place of traditional pipe and stone solutions. The perimeter of the car park and access routes utilised Fildrain, which meant a much reduced dig out resulting in significantly less site arisings to dispose of, as well as a reduction in the requirement for imported fill.

Within the general parking bay areas, approximately 17,000m2 of Sudspave 40 was selected to provide stabilised gravel and grass surfaces underlain by the appropriate bedding layer and a 'DOT Type 3' free-draining sub-base layer. Proprietary white Sudspave markers were incorporated to delineate individual parking bays.

Truckcell 80 was chosen as the heavy duty surfacing solution for discrete bus turning / parking areas where Terrex NW9 geotextile provided a combined separation and treatment function.

In addition to satisfying the planning requirement for a 'natural' finish to the surfacing, the use of Sudspave and Truckcell provided an effective stormwater treatment solution whilst also reducing the overall depth of construction. Both are highly effective source control systems that manage stormwater runoff in accordance with best practice guidance – including the entrapment and biodegradation of pollutants.

In addition, the incorporation of geogrids and geotextiles within pavement construction layers can further reduce the overall construction depth by up to 50%, delivering reduced risk, significant commercial benefits and shortening contract completion times.

ABG are committed to providing the optimal solution in terms of performance, buildability and cost.

About ABG

ABG are a market leader in the development of high performance geosynthetic systems for use in the built environment. Established for over 25 years ago and based in the UK, in the heart of the Yorkshire Pennines, ABG have built a reputation for delivering innovative system led solutions combined with outstanding technical support and customer service. Contact ABG today to discuss your project specific requirements and discover how ABG knowledge and products can help on your project.

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