



PROJECT PROFILE

Client: Painshill Park

Location: Surrey

Sectors: Sports and Leisure

Services: Transport Planning,
Flood-risk, Sustainable Drainage

Project overview: A multidisciplinary approach including a range of transport, flood-risk and drainage advice offers visitors enhanced car-parking facilities

Added value:

- Low-level lighting, CCTV and permeable surface improving car park safety
- Reduced impact of visitor traffic on local highway structure

Painshill Park, Cobham

A 158-acre park will shortly be offering visitors enhanced facilities, from the moment they arrive at the site. The park's trust has been granted planning consent to convert council-owned land into a new car park.

Painshill Park, near Cobham, attracts more than 150,000 people each year, who come to enjoy its unique blend of architecture and horticulture. Motion supported the application with a range of transport, flood-risk and drainage advice. The company also provided a car park management strategy and support with a public footpath diversion application.

Motion undertook a Flood Risk Assessment (FRA) and prepared an outline drainage strategy for the site. Proposals included a range of Sustainable Drainage Systems (SuDS) which will exceed the required water quality and pollution control for the type of land use.

Infiltration tests established that the land drainage was poor, with the presence of silty material at shallow depths of around one metre. Shallow infiltration was therefore not feasible. Deeper soakage tests revealed infiltration was possible at depths of up to three metres.

The car park's permeable paving area will be lined, and surface water will drain into an infiltration trench along the western side of the car park. The permeable car park will enable filtration of the surface water runoff, and the infiltration trench will allow the water to soak back into the ground naturally. The necessary storage will be provided for rainfall occurring in a 1-in-100-year event, with additional allowances made for climate change.



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