



Case Study

Station Road, Christian Malford, Wiltshire

Background

Cole Easdon Consultants (CEC) produced a surface water drainage strategy and the design of all external and finished floor levels for a 13 unit residential development in Christian Malford.

The development is located on an area of waste ground, bounded by Station Road, existing dwellings and a mature copse of existing trees.

Client

Redcliffe Homes

CEC Input

- Surface Water Drainage Strategy.
- Detailed foul water drainage design to obtain Section 104 technical approval from Wessex Water.
- Hydraulic modelling using WINDES software.
- Liaison with Wiltshire Council to achieve Section 38 approval
- Design of all external levels and finished floor levels.
- Design of private surface water drainage.

This development includes a stretch of Section 38 access road that drains to an adoptable roadside infiltration swale. A Section 104 foul sewer was also provided to serve the site which outfalls into the Wessex Water system in Station Road.

The private areas of the development are drained via infiltration, either by the use of trench soakaways, permeable paving located on the driveways, or to an existing ecological pond located to the rear of the development.

The highway authority was reluctant to permit any flows from the site into the existing highway drain in Station Road, due to the poor condition of this system. Cole Easdon therefore designed the site access arrangements and levels to accommodate a roadside infiltration swale, located between the road and the rear boundaries of existing dwellings.

Benefits of Our Involvement

- Our longstanding relationships with Wiltshire Council officers meant that we were able to negotiate a surface water drainage strategy that permitted Section 38 technical approval to be forthcoming.
- Our solution considered construction cost and sustainability.



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