

CASE STUDY

PEVERIL HOMES



“PJS are the go to consultant for Peveril Homes. Their attention to our needs, developer knowledge and pro-active attitude sets them apart from other consultants in the sector.”

Tom Broster
Land and Technical Manager
Peveril Homes Ltd

SECTOR

Residential Property

CLIENT

Peveril Homes

DEVELOPMENT

Holywell Mill, Burton Road, Ashby-de-la-Zouch

SERVICES

Planning Strategy, Detailed Sustainable Drainage Design
(Brownfield Redevelopment)

PROJECT OUTLINE

Holywell Mill was a particularly constrained brownfield site and partially situated within a flood plain. The brief was to design an innovative sustainable drainage scheme, that needed to overcome the constraints of shallow groundwater, no infiltration into the ground, a shallow drainage outfall into an existing combined sewer and contamination requiring a cover layer capping system to make the site safe for development.

As part of the project an outline planning condition required surface water from the site to be restricted to a very low (5 l/s) discharge rate which meant that a large amount of surface water storage was required. Our innovative design team created a sustainable drainage system that would limit excessive excavation, into the shallow groundwater, and raise levels to minimise the costly need to remove contaminated material off site.

The Polypipe Permavoid system, was selected to accommodate the large volume of surface water storage required at shallow depth. This storage system along with a Permafilter membrane was proposed in conjunction with both permeable paving and porous asphalt to provide an attractive running surface and also improved water quality.

Finally, a deepened kerb race was proposed to act as a permanent shutter to facilitate the easy installation of utilities. An impermeable base course allows the system to remain silt free during construction. The base course subsequently being cored post-construction to enable the permeable surface to freely drain into the storage below.

Plus the teams early negotiation with Leicestershire County Council Lead Local Flood Authority resulted in prompt discharge of planning conditions for Peveril Homes.