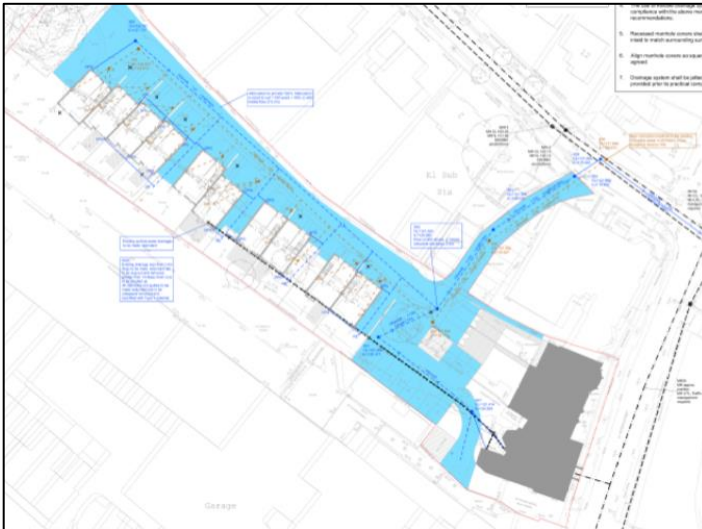


St Peter's, St Albans, Cambridgeshire

GCA were commissioned by Stagfield Limited to undertake the detailed civil and structural design of a new residential development. Work included the design of ten new residential plots, drainage and external works along with review of the existing properties and parking. Key difficulties encountered included a number of unsuccessful soakaway tests at the northern extremity due to the presence of underlying clay. Only one soakaway test was successful, and although the established percolation rate was good, its location is not. In order to ensure that a viable drainage design could be provided, GCA were required to return to site to undertake further location specific boreholes.



The additional intrusive investigations proved to be a successful and additional locations where suitable infiltration were identified onsite. GCA were then able to incorporate a design which utilised the permeable sub-base within the access road and car parking area for attenuation. This enabled the design proposals to be achieved without significant redesign, thus ensuring the scheme was delivered on time and within budget.

Main Street, Middle Tysoe, Warwickshire



GCA were commissioned by Loxton Developments Ltd as part of the design team to undertake the detailed design of drainage and infrastructure for the development of luxury housing. Works included the detailed design of the drainage network and liaising with the contractor to design the drainage network to suit the site constraints. The site has only one entrance form the main highway, which is narrow.

We also collaborated with Severn Trent Water to establish outfall locations and flow rates. GCA was also involved in implementing the S278 and in to establish the adoptable areas to suite the local authority and the client.

