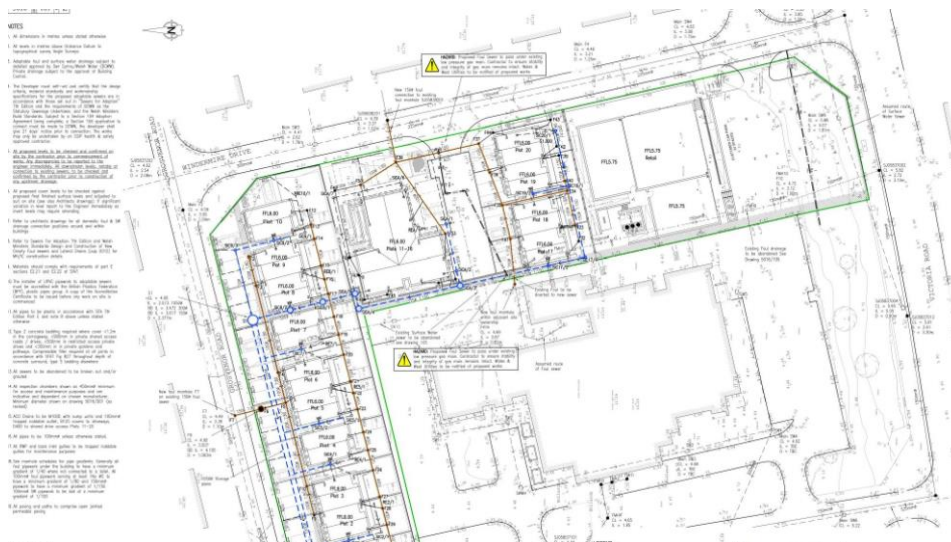


PROJECT OVERVIEW

RBA Ltd were commissioned by Wales & West Housing to prepare a Flood Consequence Assessment, Foul and Surface Water Drainage strategy and design, Structural Design, Section 278 Highway works design and proposed site levels using digital terrain modelling for a proposed development of 20 affordable residential units comprising a mixture of houses and apartments.

- The existing site comprised largely open space following the demolition of the police station and part of an existing car park. Therefore, a largely brownfield development with grassed areas to the perimeter.
- RBA undertook percolation tests on site and supervised a drainage investigation to establish the layout and levels of the existing Public Sewer Network surrounding the site and private drainage on site. Investigations also included exposing and surveying existing services such as gas mains crossing the site for diversion and avoidance. Due to unsuitable ground the surface water drainage strategy incorporated below ground piped storage with attenuated surface water discharge to the existing Public Surface Water Sewers in the adjacent highway at a restricted rate agreed with Dwr Cymru / Welsh Water (DCWW).
- Following extensive negotiation with NRW, RBA worked alongside the Client and Architect to establish the most suitable site layout and alterations to satisfy the requirements of the Highway Authority and NRW.
- The principals agreed with NRW were to provide below ground voids within the properties and to maintain existing site levels as best as possible to provide flood storage to minimise the impact of the development on flooding in the Prestatyn area. A raised footpath was also provided to serve the dwellings and apartments to provide a safe means of escape in the event of severe flooding. Foul drainage from the dwellings discharges into the existing Public Foul Sewers within the adjacent highways with the agreement of DCWW.
- RBA prepared detailed layout drawings, construction details, drainage strategy and FCA reports and other supporting documentation for the planning application, that was approved.
- RBA were then appointed by the Principal Contractor (Castlemead Homes) to complete all detailed design for drainage, foundations and structures including obtaining S104 Adoption Agreements with DCWW and S278 Agreements with the Highway Authority including associated liaison with all parties.



Services Snapshot

- Flood Consequence Assessment
- Drainage Strategy
- Drainage Design
- Structural Design
- Ground Modelling
- Highway Design