

Case Study

Ebbsfleet - Castle Hill

Location	Ebbsfleet, Kent
Sector	Residential
Client	Land Securities / Ward Homes
Scope	Earthworks / Infrastructure / Groundworks

Erith are employed by Land Securities as Principal Contractor on the first phase of the enabling and infrastructure works which consists of:

- Archaeological watching brief following discovery of paleontological artefacts
- 495,000m³ cut and fill
- 4.5km of S38 adoptable highway
- 1.0km of S278 off site high way improvements
- New off site roundabout
- 500m of local authority footpath diversion
- Comprehensive land drainage and stormwater attenuation systems
- Foul and storm water sewers up to 900mm diameter
- 3.5km of 315mm and 200mm hdpe dewatering main including three slip-lined road crossings
- New waste water treatment plant
- 400m foul water pumping main and RC pumping station
- 14ha landscaped park

Additionally, Erith have completed work on construction of the first 150 residential units at Castle Hill for Ward Homes. Initially employed as Principal Contractor for the enabling phase and development of show houses and sales centre; Erith then transferred the Principal Contractor obligations to Ward Homes and undertook a traditional groundworks package consisting of the following activities:

- Foundations
- Brickwork and Blockwork to PDC
- Design, Supply and Install of PCC Flooring
- Adoptable Drainage
- Adoptable Roads and Footpaths
- Domestic Drainage
- Service Connections
- Hard Landscaping
- Public Open Space and Soft Landscaping



Case Study

Ebbsfleet - Western Cross & Alkerden

Location	Ebbsfleet, Kent
Sector	Residential
Client	Land Securities / Henley Camland
Scope	Enabling Works / Earthworks

Erith are currently undertaking the enabling and earthworks packages as part of the major strategic development at Ebbsfleet Garden City, Kent. The site has outline planning permission for 6,500 homes, a new primary school, secondary campus, retail, leisure and community facilities. More than 40% of Ebbsfleet Valley will be open space and landscaped.

The current works include:

- 270ha of site clearance and ecological destructive search
- Archaeological watching brief
- Demolition of redundant cement works
- Constructing temporary structure to preserve existing 17th Century grade 2* listed barn
- Dewatering existing lake containing in excess of 3 billion litres of water
- 3.40km dewatering main including two outfalls to the Thames
- 6,700,000 m3 cut and fill
- Development of our recycling centre to serve our projects in the area with recycled aggregates.

These works are paving the way for:

- Two new off-site S278 roundabout
- 8km of new S38 adoptable highway
- 1.5km of dedicated bus link
- Two new WWT plants
- 40ha of green space
- 3.0km walking link to the Thames



Case Study

Ebbsfleet Garden City - Ebbsfleet Green

Location	Ebbsfleet, Kent
Sector	Residential
Client	National Grid / Redrow
Scope	Demolition / Remediation / Earthworks / Infrastructure

The site had been a former primary electricity substation and following the remediation and demolition we crushed and processed in excess of 20,000t of concrete and hard material.

The site contained areas of dormouse habitat but by working closely with the ecologist and offering translocation areas we were able to mitigate the impact of any issues.

The underlying soils, though generally consisting of thanet sands, were variable in nature and with our experience in ground improvement techniques were able offer the design team cost effective solutions to allow works to progress through the winter

Once the various phases of earthworks were completed, we commenced on the primary and secondary adoptable highways and drainage.

The scope of works included:

- 20ha of site clearance
- 95,000m³ of topsoil strip
- 550,000m³ of cut and fill
- Earth retaining structures including cribloc walls and soil nailing 195,000m³ sound bund
- Attenuation ponds and swales
- 1.5km of S38 adoptable highway
- 1.0km of S278 highway alterations

