

Case Study

Housing Development

Bothwell Bank



Project Description:

Enabling works contract to allow the construction of 105 new residential properties.

Key Works: Structural Earthworks
Soil Modification
Mass Deep Soil Mixing
Earth Retaining Walls
Piling
Sheet Piling

Client: Miller Homes

Date / Duration: May 2018 / 20 wks

Topsoil Strip: 30,800m³

Cut / Fill Volume: 52,100m³

Formation Works: 15,000m³

Mass DSM: 3,600m³

Project Challenges / GDL Solutions:

- The site was split into 2 phases by a valley which was to be retained. Mass deep soil mixing provided an excellent solution to stabilise the embankments to ensure there was no risk of slippage and provide a suitable foundation solution for retaining walls.
- The subsoils were unsuitable for compaction to a structural specification without treatment so fill materials were modified prior to compaction. Soft formation soils were also modified prior to filling to create a platform suitable for standard strip foundations where appropriate.

Project Benefits for Client:

- Our approach reduced the number of piled plots significantly which in turn both brought significant savings and simplified follow on works for the ground-worker.
- We were able to offer a complete solution across the site by utilising several of our in-house techniques. Having this in-house capability allows us to select the best approach for each area on site.
- Import and export was minimised bringing both financial and environmental benefits.



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EARTHWORKS



SOIL STABILISATION



VIBRO STONE COLUMNS



DEEP SOIL MIXING