

CASE STUDY HEREFORD OLD LIVESTOCK MARKET

Project Description

The Contract:

The Old Livestock Market will become a much needed regeneration area for the historic city of Hereford. It will create a natural expansion of the city's leisure and shopping experience, ensuring the architectural approach is sensitive to the heritage of the city.

Geotechnical Engineering Ltd (GEL) was instructed to carry out a ground investigation for the proposed development under the direction and supervision of Ramboll Engineering.

The Challenge:

GEL was instructed to undertake the drilling of 8 boreholes, 23 window sample holes and 13 trial pits with associated in-situ testing. The site was occupied by tenants and remained open to the general public so attention to health and safety was paramount. Many of the exploratory holes were located in busy car parking areas or in areas of archaeological interest.

The Solution:

GEL used a combination of Cable Percussive, Terrier and Pioneer rigs. Following CAT scanning, water flush rotary coring methods were used to remove the hard standing. Inspection pits were hand excavated at all borehole locations to a maximum depth of 1.2m to check for buried services. Drilling continued using a combination of cable percussive and water flush rotary coring techniques. All samples and cores were logged on site and subsamples were carefully taken and prepared for laboratory analysis. All boreholes were installed with combined gas and groundwater monitoring wells.

Trial pits were formed using wheeled hydraulic plant. A combination of soakaway tests, in-situ CBRs and plate bearing tests were undertaken in several of the pits. On completion, the trial pits were backfilled with arisings and the surface reinstated with concrete.

All fieldwork was supervised throughout, with an archaeologist in attendance when required. All samples were brought back to our in-house laboratory for logging, testing and storage.

"Geotechnical Engineering provided cost effective, programme conscious work throughout this multiple phase project and delivered results that met the project requirements. They were proactive in identifying and engaging with Ramboll towards resolving technical and non-technical issues on site."

Thomas Smith, Environmental Consultant, Ramboll

Project Overview

Project Name:

Hereford Livestock Market

Project Type:

Ground Investigation

Client Name:

Stanhope PLC

Date/Duration:

August 2011 to April 2012



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Or visit our website www.geoeng.co.uk