

CASE STUDY

Industrial Units

Woodingdean Business Park, Brighton



PROJECT OVERVIEW:

Client:	St Modwin Properties
Sub-contracted to:	Anglo Holt Construction
Engineer:	Nolan Associates
Sector:	Industrial
Value:	£147k
Description of Works:	Design, supply and install piles to form a Contiguous Bored Pile Wall.



TECHNICAL DETAILS:

Type of Piling System:	Continuous Flight Auger (CFA)
Soil Conditions:	Chalk
Length of piles:	Up to 13m
Type of Testing:	Integrity
No. of piles installed:	140 No.
Diameter of piles:	600mm



The site previously housed a bakery, following demolition of this building, it was apparent that additional retaining walls were required to extend the basements onto the new building line.



Initially the contractor anticipated using restricted access equipment, however, following our first site visit and discussions with the main contractor, it was agreed that piling mats could be constructed such that our R312 rig could be used. An agreed sequence of works was critical as both piling and excavation levels varied significantly across the site.

The interface between the contiguous piles and the existing retaining wall was at the same point of the existing castle house which was also the point of the greatest excavated height. Castle house had to be covered with plywood boards and visqueen throughout the works to protect from concrete splashes.



Extensive design discussions, close working relationship, flexible response to on site amends i.e. obstructions and change of pile locations were crucial to ensure smooth running of the works.

As works continued on site, it was apparent new retaining walls were required and had to be constructed. Green Piling installed the main retaining wall plus two smaller retaining walls and bearing piles during a 4 week programme.