

## Rotary Bored Mini Piling

# 3 Park Place Villas Holland Park, London

### Project Description

The challenge of this project was to form a double basement underneath and to the rear of this listed building in order that a swimming pool and gym area could be provided. Access for all equipment was restricted to 1.8m width and in some areas 2.5m in height.

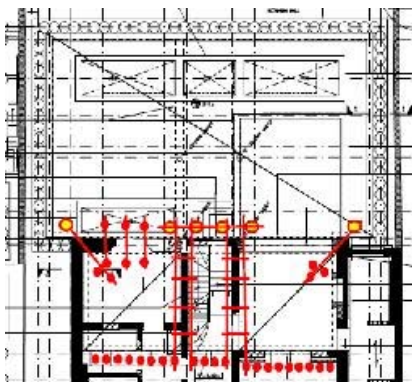
### Ground Conditions

Due to the stiff and dry London clay a contiguous piled wall formed using a rotary technique was determined as the most cost effective solution to form the retaining wall.

### Solution

The close proximity of the neighbouring structures and the large retained height meant that the 450mm diameter piles placed at 550mm centres needed to be propped in the temporary condition. The reinforced concrete wall and slabs would provide support in the permanent situation.

The existing property was in some areas supported by piles that will act as columns and have a free standing height of up to 6m. Therefore additional reinforcement bars were supplied to cater for bending that may be induced.



*Layout showing permanent and temporary piling*



*Exposed temporary works pile*

#### Client

Private developer

#### Main contractor

WA Hills Ltd

#### Structural engineer:

Bruce Cuffley & Partners Ltd

(Temporary Works)

Sinclair Johnston & Partners Ltd

(Permanent Works)

#### Scope of works

- 56 no. 450mm diameter rotary bored contiguous wall piles
- 46 no. 350mm diameter rotary bored bearing piles

#### Plant

- GP T5000 1t drilling rig
- Hutte 203 5t drilling rig
- 1t dumper

#### Duration

August to September 2008 (2 visits)

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