



<b>The Project</b>	<b>The Finchley Road Station SER Building</b>
<b>Sector</b>	<b>London Underground</b>
<b>Completion Date</b>	<b>05/16</b>
<b>Value</b>	<b>£50K</b>

## The Challenge

The Finchley Road Station SER project required foundations designing and installing for a new signalling structure.

The site was a highly sensitive rail site which had limited headroom and extremely tight working space restrictions.

The working area was essentially an island surrounded on all sides by live network rail infrastructure and complicated further by the presence of the Jubilee and Metropolitan lines of the London Underground .

The nature of situation of the site was that there was no area to store materials and no clear access to mobilise equipment to the piling area.

## The Solution

Franki Foundations in house design department proposed a scheme involving the construction of 300mm diameter grout injected mini SFA piles installed to a depth of 15m. Our experienced team proposed to overcome the difficult access issues by installing the piles with our two tonne Super Kitten rig. The Super Kitten suited the space, headroom and working space restrictions. Franki overcame the logistical challenges by using an A-Frame to lift the rig onto a track trolley during a Sunday night possession when no trains were scheduled, then advancing the track trolley along the tracks and lifting the rig into the rail locked site using the A-Frame.

The limited area on site required the erecting of a temporary scaffolding around the existing building to provide access walkways for operatives and a route for bagged spoil to be removed. Grout was delivered daily in pre-mixed bags due to storage restrictions and pumped along protected grout lines to the rig. The works were undertaken in a highly controlled and strictly supervised manner which enabled the rail infrastructure to remain operational throughout the works.

Due to our vast experience in restricted access sites and logistical management, we assisted our client in delivering the project on time and budget with the client was also able to keep open the existing SER building and Live tracks during our mini piling operations.