

Cementation

SKANSKA

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South Ruislip Embankment Stabilisation

Client

London Underground

Main Contractor

Cementation Skanska

Engineer

Mott MacDonald



Cementation Skanska were contracted to Design and Construct Earth remediation works to approximately 105m of the Central Line on behalf of LU between Northolt to South Ruislip stations. This stretch of embankment was originally constructed circa 1934 and is located on the western side of the Central Line, running parallel to a row of houses situated on Great Central Avenue.

The works undertaken were to help improve the stability of the embankment, minimise the risk of damage to the structures, track or services sited on adjacent slopes and the consequent requirements for track and other maintenance on and around the asset.

The works involved, and were not limited to, the installation of some 1000m linear metres of piles with 120m of CemRailBeam® being constructed. The piling works were carried out using the TD308 Piling Rig and a Klemm 702 Piling Rig operating off earthwork access platforms and guidewalls,

which served as a solid base for the placement of the CemRailBeam® units.

On completion of placing and concreting the CemRailBeams®, the embankment shoulder was formed by recycling the temporary access platform upslope of the capping beam to provide a walkway for the maintenance of the tracks. The remaining slopes down slope of the CemRailBeam® were subsequently re-graded and re-vegetated along the earth structure. The slopes were seeded with a Wildflower Mix to help establish a natural environment for bees and butterflies to flourish in.

The overall contract was completed within budget, on time and with no major incidents to report. It was a credit to the whole team who worked seamlessly within a very tight site containing large plant movements. In addition the contract recycled approximately 25% of the rubbish it produced with a large portion of material being reused on site.