

Case Study

M27, TANNERS BROOK

Client: Highways Agency

Main Contractor & Anchor Installer: [Costain](#)



PROJECT SPECIFICATION

As part of the M27 Junction 3-4 widening scheme, sheet piles were required to support the existing embankment to allow the construction of a new culvert headwall for Tanners Brook as it runs beneath the motorway. It proved impossible to insert sheet piles deep enough to work in cantilever, so additional propping was required. Access for large plant was limited by site constraints and a solution with a low environmental impact was also needed.

SOLUTION

The granular nature of the embankment fill material meant that large loads could be achieved with a relatively small anchor. Holes were cut into the sheet piling and S08 anchors were driven to a depth of 3m, using a hydraulic breaker. Installation work was carried out by Costain following on site instruction in the safe and correct use of the installation equipment.

Anchor System: S08EC galvanised spheroidal graphite iron anchor c/w 4m of 16mm \varnothing galvanised steel wire tendon, 200mm x 200mm galvanised steel load plate, hemispherical washer and 16mm galvanised steel wedge grip.

Quantity: 12

Anchor Design Life: 5 yrs

Soil Type: Granular fill

