



Dyer & Butler



Slope Stabilisation



April 2024



2 Weeks

**Universal Piling were contracted by Dyer & Butler to stabilise a rail embankment following a landslip at Bough Beech, Kent, which resulted in a line closure.**

Initially to stabilise the bank as quickly as possible 96no sheet piles, each 8m long, were installed directly into the embankment. The sheet piles were installed using a 36t excavator c/w Movax SG75 and Movax piling hammer to back drive the piles to depth in line with the design. Our piling team worked around the clock while the line was closed to stabilise the bank sufficiently so the soil nailing works could commence.



### Universal Group

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The final design further required the installation of 153no soil nails each to a depth of 12m along the embankment. To compliment the nails, a mesh system comprising of 300m<sup>2</sup> of Maccaferri MacMat R mesh and galvanised plates were employed across the full surface area. All of these works were carried out using hydraulic soil nailing masts, mounted on both long reach and standard 21tn excavators, to achieve a reach of upto 16m.

Our true reactive approach was one of the key elements of this project with our mobilisation being carried out within a few days of the instruction, recognising that every hour was critical to the success of this project. With media & political interest focussed on the scheme, we really were in the spotlight from start to finish, delivering the project early and surpassing the expectations of our clients.



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