

Project Report

The M1 Junction 12 North Bound on-ramp needed refurbishment as part of the M1 improvements. This involved the temporary anchoring of a sheet pile wall while allow the traffic to continue using the on ramp. The anchors were to be installed in 5 levels as the excavation was carried out. The load requirement was up to 85 kN plus a F.O.S of 1.25, with the anchors ranging in depth from 9m to 6m.

CLIENT

Highways Agency

CONTRACTOR

Piletec Geotechnical Ltd

ENGINEER

Costain Limited

ANCHOR SYSTEM USED

AS20 Earth Anchor

SOLUTION

The anchor of choice was the AS-200, this anchor is rated at 200kN and came complete with a 25mm bar and load plate. Three anchors were tested by Anchor Systems with the results being verified by the Costain Ltd Engineer.

A total of 165 anchors were used over 5 levels, all of which tested to beyond the design requirement.



Sheet Pile

M1 JUNCTION 12

