

M1 Junction 12

Client: **Highways Agency**
Engineers: **Costain Limited**
Contractor: **Piletec Geotechnical Ltd**

Requirements

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.



Solution

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