



Case Study



PORT EGLINTON VIADUCT - PIER 5

Client: Transport Scotland
Consultant: Atkins
Contractor: Interlink M74JV

PROJECT SPECIFICATION

The client proposed to excavate the trackside ground in order to build one of the massive support piers needed to carry the new motorway extension over this rail line and area. This section of motorway is part of the new M74 link around the centre of Glasgow. A method of stabilising the excavated cut face was required to provide a safe working environment for the foundation pad to be cast and the structure erected. An added complication was the proximity of the rail line and the requirement to work within possession times.

SOLUTION

The slope was excavated in stages, effectively benched to provide a lower working level. The temporary sheeting and mesh were secured by loadlocking the anchors into position with timber soldiers on top to spread the load evenly. The excavation was then taken down deeper and the process repeated. The third repeat gave a final excavation of some 3.5 - 4m deep. With all anchors installed the area was then safe to enter and building work begun.

Anchor System: S06EA aluminium alloy anchor c/w 3m of 6mm Ø galvanised steel wire tendon, finished with a 100mm x 100mm galvanised steel load plate and 6mm galvanised steel wedge grip.

Quantity: 41

Anchor Design Life: 30 weeks

Soil Type: Made ground

