

Case Study

OVERHEAD LINE ELECTRIFICATION (OLE) BASES, TEBAY (WCML), AUTOTRANSFORMER PROJECT

Client: Network Rail

Contractor & Anchor Installer: AMEC Group Ltd



PROJECT SPECIFICATION

As part of the upgrading of this mainline rail route new gantries are being installed to carry the OLE. These gantries are typically sited adjacent to the tracks and local excavation was necessary to cut back the existing embankment to cast their foundations. The exposed cut faces needed to be made safe in the short term to allow the construction of the new reinforced concrete structure.

SOLUTION

Vertical sheet piling was used to form temporary shuttering along the track side excavation and anchors were then installed to secure them into position and provide the additional restraining loads required to hold back the embankment. Once the anchors were loaded, the ground in front of the sheet piling could be safely excavated and removed to allow the casting of the foundation blocks. The anchors were installed into the four separate gantry locations along this site. The ability to provide immediate loads from the anchors meant that the excavation process was continuous leading to time and costs savings on site.

Anchor System: B06TC spheroidal graphite cast iron c/w 7m of 8mm Ø galvanised steel wire tendon, 200mm x 200mm galvanised steel load plate & 8mm galvanised steel wedge grip.

Quantity: 18 **Anchor Design Life:** 5 yrs **Soil Type:** Made ground/embankment

