

Case Study

SIGNAL GANTRY, BROUGH

Client: Network Rail

Main Contractor & Anchor Installer: [C Spencer Ltd](#)

PROJECT SPECIFICATION

The buffeting effect of high speed wind created by the passing trains was causing increased fatigue to this cantilevered ironwork structure. Without remedial work to prevent this excited oscillation there was a real fear that the signal could in time collapse.

SOLUTION

Guy wires were fitted to a collar high up the structure and while two of these were then secured to the steelwork of the adjacent pedestrian bridge the third was attached to a Platipus® anchor driven into the ground alongside the tracks. The stainless steel wire tendon was tightly secured to the collar and also to a stainless steel turnbuckle arrangement to allow proper tensioning of the system. The anchor itself was installed within a matter of minutes using simple hand held equipment.

Anchor System: B06TC spheroidal graphite cast iron anchor c/w 4m of 12mm Ø stainless steel wire tendon, terminating with a hard eye and stainless steel turnbuckle.

Quantity: 1

Anchor Design Life: 40 yrs

Soil Type: Made Ground

