

## RAILWAY ELECTRIFICATION

 VolkerFitzpatrick

*“Structure renewals on the Great Eastern Main Line.”*



Removal of redundant steel

PILING  
MAIN STEEL  
SPS  
TRANSFERS  
REMOVALS



MARCH 2017 –  
SEPT 2017

VALUE  
£750K

ANGLIA



## RAILWAY ELECTRIFICATION



**Equipment transfer to new structure**

**N**etwork Rail identified a number of OLE structures throughout the Anglia region with varying degrees of lean, and as such all needed to be renewed to reduce the risk of OLE failure.

The lean is caused by several factors including poor ground conditions, inadequate foundations, steelwork damage and life expired equipment. The scope of works on this phase of the project was the replacement of 24 existing structures with new single cantilever arrangements.

The works involved the installation of new OLE pile foundations, structures, cantilevers, droppers, midpoint anchors, registration, installation and alteration to Return Conductor wires and removal of the redundant structures.

All works were carried out over a series of weekend possessions carried out as follows:

- Install 610mm piles
- Install main steel & bonding (both temporary and permanent bonding)

- Install Small Part Steel (SPS)
- Transfer of OLE and new registration
- Install / move return conductor wire to new Design
- Removal of redundant steel

Post works all associated hand back material was submitted supporting the installation including Quality Check Sheets, redline drawings and height and stagger surveys.