Have any questions?
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Project Report

CONTRACTOR
Atkins

CLIENT
Network Rail

PRODUCT USED
161 x Anchor Screws

INSTALLER
Readypower Terrawise

Requirement

The Malvern Midlands railway faced structural concerns with the shoulder and slope of the track, resulting in speed restrictions for passing trains. The compromised integrity of the track shoulder presented safety risks and operational inefficiencies, prompting the need for immediate intervention to restore track stability and ensure safe, unrestricted train movement.

Testing

While no direct testing was conducted by Anchor Systems, the structural integrity and site conditions were evaluated by the project's consultant, Atkins. The assessment identified critical areas requiring reinforcement to sustain load conditions and environmental factors. This evaluation informed the selection of appropriate anchoring solutions, although specific load tests and soil resistance analyses were not documented as part of Anchor Systems' involvement.

Solution

Anchor Systems provided a comprehensive anchoring solution, including:

- 20 x 1795 mm Anchor Screws
- 111 x 1800 mm Anchor Screws
- 30 x 2300 mm Anchor Screws
- 150 Ballast Boards
- 141 Ballast Board Posts
- 20 Domed Signposts
- 6 Handrails

The installation was executed using a machine-mounted torque head (600x). A night shift team focused on installing the anchor screws, while a day shift team assembled the ballast boards and posts to form a robust retaining wall, effectively addressing the structural concerns.

Result

The project successfully met all performance criteria. The newly installed anchoring system reinforced the track shoulder, eliminated speed restrictions, and restored full operational efficiency. The seamless execution, despite challenging site conditions such as poor access and adverse weather, highlighted the reliability of Anchor Systems' solutions. The project was completed within the designated timeframe, without any unforeseen issues, underscoring the effectiveness of the Anchor Screw and Ballast Board systems in railway infrastructure reinforcement.

Malvern Midlands

Ballast Retention