



GLASGOW ROAD UNDERBRIDGE REPLACEMENT

Project Location: Carmuir, Scotland

Project Timeframes:
March 2016 - April 2016

Client: Network Rail

AmcoGiffen Discipline/Sector:
Infrastructure

Project Overview

It was identified during assessment for the Calmuirs West Junction re-alignment project, that the existing Glasgow Road Underbridge carrying the non-electrified Polmont Junction to Greenhill Junction line between Carmuir West and Carmuir East junction, had a non-compliant ballast depth, spread over two riveted half through decks - and would require replacing.

Aiming to improve the safety and compliance of the superstructure, AmcoGiffen were contracted to construct and install 2 nonstandard U-deck composite bridge decks in place of the existing structures.

AmcoGiffen's Scope of Works

Collaborating effectively with Network Rail and the design team, Atkins, AmcoGiffen's works comprised the construction and installation of 2 U-deck composite bridge decks with the associated precast concrete cill units, abutment remedial work, and permanent way realignment.

Our overall scope of works included:

- Reestablishment of the compound after variations
- Bridge 'jacking' ready for transportation via SPMT
- Removal of handrails and pilasters from the bridge
- Formation of abutment saw cut
- Installation of ballast Rapid Rail Access (RRAP)
- Removal of track and ballast
- Excavation of the fill behind the abutments
- 'Old' bridge transportation via SPMT to the compound for dismantling
- Fill, ballast and P-Way reinstatements
- Installation of structure plates and walkways
- Demobilisation of site and hand back to owner



Another example of AmcoGiffen's excellent pedigree in delivering bespoke superstructure replacement, on time and to budget for their client



Innovation Applied

Continually embracing and implementing new and more effective ways of providing enhanced project delivery, AmcoGiffen adjusted rapidly to changing circumstances and project variations.

Providing non-standard U decks, while incorporating the enhanced track alignment for the Carmuir West Junction re-alignment project, the arrangement was designed specifically to increase the overall structure dead lead at foundation level by around 39.

Benefits Provided

Reopening the bridge to traffic just over a month after the incident, AmcoGiffen worked diligently to ensure all works were complete in record time, successfully reopening the West Coast Mainline 2 weeks ahead of programme.

Benefits of the project included:

- Prevention of additional damage to the structure, railway, and surrounding areas
- Increased safety of the line
- Preservation of South Lanarkshire's heritage rich infrastructure

Further benefits provided by AmcoGiffen:

- A robust and comprehensive understanding of the technical scope
- A strong commitment to around the clock health and safety
- The ability to promptly adjust to project modifications
- A client-first commitment and excellence driven philosophy



Project Contact

For further info please contact Daniel Harkins, dharkins@amco.co.uk