

George Lane Underbridge

CLIENT: AmcoGiffen

LOCATION: Worcestershire

YEAR OF COMPLETION: 2021

We provided temporary works design and checking services to facilitate the removal and replacement of a life expired existing railway underbridge. Replacement with a new underbridge was undertaken in a limited rail blockade making simplicity a key element of our works.

Using proprietary elements we designed anchorage structures, either side of the temporary excavation to restrain a wire rope support, used to support existing S&T cables. This was associated with slope stability checks to the sides of the excavation aimed at minimizing excavation and the span of the S&T support cable.

To assist the installation of the replacement underbridge we designed a working platform for the 1000t mobile crane, employed to lift in precast concrete underbridge sections. Props were also designed to restrain precast concrete robust kerb units in the temporary condition.

All temporary works were subject to the Network Rail approval process and were approved on programme.

KEY FACTS:

- Sensitive existing rail cables
- Limited rail blockade
- Working platform
- Temporary props

