

B4058, Horsley Hill

As part of the Gloucestershire County Council (GCC) contract, Amey Consulting (Principal Designer) were commissioned in 2017 to undertake the remediation of the B4058 carriageway with Graham Construction (Principal Contractor) being responsible for the planning of the construction works, managing the sub-contractors and managing health and safety during the construction in delivering the £1m project.

This project involved the remediation of the B4058 carriageway located between Nailsworth and Horsley after a major slope failure in 2013 occurred where an approximate 12m length of the southbound carriageway and associated footpath slipped. This resulted in a single lane closure operated under traffic management for approximately 4 years. The remedial solution developed by Amey Consulting comprised 94 No. 3.75m x 1.875m pre-cast concrete 'L' sections installed approximately 2m below carriageway level. The pre-cast sections were founded on a concrete slab and kerbing system which allowed the sections to be placed level, minimising movement. The central 25 No. pre-cast sections were secured in place with 8m long micro piles to provide additional overturning resistance over the failed zone.

The design and construction of this project proved challenging on many levels including the differing geological units across the site, environmental hazards in the form of working on a steep valley side with water courses located below, and the logistics of mobilisation and deliveries as the temporary removal of the carriageway limited accessibility.

Working closely with Graham Construction, Amey Consulting provided value and quality to the Client and by holding public consultations, open days and including updates in the village newsletter, ensured public support over the entire project. Construction started in July 2017 and was completed in December 2017.

The investment of the £1m project created a safer highway, improved the neighbourhood with the reduction in congestion and the provision of easy access for bus services, improved the aesthetic aspect of the area, and allowed a safer commute on foot and by vehicle to local school commuters.