



Project Title:	Knightwick Road Bridge Abutments
Client:	Highways England
Date of Work:	Sept 2009

Project Description

Knightwick Road abutment was in a poor state of repair, with large sections of missing and collapsed masonry. Our clients requirement was to remove the abutment to eliminate and minimise maintenance and inspection costs. The most cost effective solution was to remove the abutment and grade the ground behind to a suitable gradient. The total removal of the abutment was not possible, due to boundary constraints and local authority planning conditions. The initial works involved providing an indemnified design, highway temporary order approval, planning approval, landowner liaison, etc. The final scheme involved:

- Carefully dismantle the abutment
- Retain a 1.2m stud wall, which would be rebuilt where necessary
- Grade the embankment to planning approval 1:2 grade and topsoil on completion
- Reinststate boundary fencing to match existing
- Install a concrete coping at the head of the wall

Project Constraints

- Ecology.
- Planning.
- Public Interface.
- Traffic Management.
- Poor condition of structure.
- 3rd party negotiations (landowners).
- Demolition.