

Project:	Cross Keys Bridge, Cautley	Office:	Kendal	Prepared By:	RW
Title:	Design Statement	Project Ref:	K40708	Checked By:	JG
		Revision:	Original	Date:	25/09/24

BASIS OF DESIGN STATEMENT FOR INCLUSION IN THE HEALTH & SAFETY FILE

1. This statement has been produced to accompany the drawings submitted to the Principal Designer for inclusion in the Health & Safety File.
2. The civil and structural engineering works are described on the drawings listed on the attached register.
3. Design Standards
 - For the design of the new retaining wall to the north-western boundary of the highway the following design standards have been used:
 - BS EN 1991:2004 – Traffic Loads
 - BS EN 1992:2004 – Design of Concrete Structures
 - BS EN 1997:2004 – Geotechnical Design
 - The reinforcement has been scheduled in accordance with BS 8666:2005
4. Loading
 - Due to the site layout, the following load cases have been applied to the wall.
 - For the RC Wall to the rear of the existing parking bays, a surcharge of 10kN/m² (LM1) has been applied, on the basis that the wall will be retaining parking spaces for private vehicles.
 - Level ground to the rear of the RC wall has been assumed, due to the presence of the parking area.
 - For the retaining wall design, the soil friction for the base has been set at 32°, with a friction angle for the backfill material behind the wall at 35°.
 - In the absence of any ground investigation, a safe bearing capacity of 100kN/m² has been adopted for the design. This will need to be verified on site prior to construction.