

DESIGNER'S RESIDUAL HAZARD IDENTIFICATION

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 Project: Cross Keys Bridge, Cautley Project Ref: K40708 Revision: Original Checked By: JG

This document is prepared for the sole purpose of identifying residual hazards that we, as designers, have been unable to eliminate. We assume that (in accordance with CDM 2015 Regulations) the Contractor is competent and is therefore aware of ordinary construction works tasks (e.g. 'unknown below ground services when undertaking excavation works'; 'risk of leptospirosis when working in and around sewers, watercourse & derelict areas', etc.)

The below table only records those hazards that we consider to be extraordinary.

The residual hazard is noted with a 'Risk Rating' (R) from the equation: **Risk rating (R) = Probability (P) x Impact (I)**, for which the following scores and ratings are used:

Probability (P) / Impact (I) Score	
Very Likely / Very High	5
Likely / High	4
Probable / Medium	3
Unlikely / Low	2
Negligible / Very Low	1

Risk Rating	
20-25	Severe
15-19	Substantial
10-14	Moderate
5-9	Minor
1-4	Negligible

Hazard	Consequence	Risk before mitigation			Mitigation Measures	Risk after mitigation		
		P	I	R		P	I	R
Presence of Tar containing materials in the existing pavement.	Risk to human health during works. Cost implication for disposal of material.	2	2	4	Core samples of existing pavement to be undertaken to test for Tar.	1	2	2
Collapse of side slopes during excavations	Risk to human health during works. Creation of additional works in case of slippage.	2	4	8	Suitable temporary works to be used throughout construction phase.	1	2	2
Falls from height	Risk to human health.	2	2	4	Suitable guarding to be used	1	2	2

Hazard	Consequence	Risk before mitigation			Mitigation Measures	Risk after mitigation		
		P	I	R		P	I	R
					during construction.			
Exposed reinforcement	Risk to human health.	2	4	8	All bar ends to be capped off during construction. Site to be suitably secured to prevent access by general public.	1	4	4
Working next to a live highway	Risk to human health. Potential Vehicle collisions.	2	4	8	Suitable Traffic Management to be used throughout duration of the construction works.	1	3	3
Falls into watercourse	Risk to human health	2	3	6	Suitable guarding to be used to prevent falls. Provision of life ring/floatation aid during works.	2	2	4

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