

DESIGN RISK ASSESSMENT

BBL Enquiry/Contract/Document Reference: **BB1543 – DRA - 001**Site Address / Structure: **Cross Keys Footbridge, Sedbergh**

To be read with Sketches / Drawings ref:

Design Organisation: **Beaver Bridges Limited**

Introduction:

- 1 This document is not intended to cover the design of the complete structure. Consideration by the hirer/purchaser must be given to the areas of design where responsibility lies with others, (e.g. foundations, clearances, etc.).
- 2 The action column indicates those items considered by Beaver Bridges Limited. Actions shown as “Others” should be considered by the purchaser, be documented, and any resulting actions must be communicated directly to the Principal Designer and Principal Contractor.

Prepared by: Andrus Kolossov Date: 06/06/2023

Signed: Ed Dablin

Item Ref.	Item Description & Possible Hazard	Measures to Reduce Risks	Action By
A	<u>CRANE LIFT</u>		
A1	CRANE LIFTS In-stability due to failure of the crane, hook and tackle.	Suitability of cranes for stated lift weights to be checked. Contractor to implement loading control measures on site. Weight of lifts and capacity of hook and tackle to be verified.	BBL
A2	CRANE LIFTS Inclement weather leading to instability.	Crane lifts only to be undertaken in fair weather conditions, and in accordance with the safe working limits of the crane.	BBL
A3	CRANE LIFTS Hazards associated with pedestrian traffic, vehicle movements, etc.	Contractor to prepare Method Statements and Risk Assessments for works to be undertaken.	BBL
A4	CRANE LIFTS Lifted items have temporary forces induced during lift.	Designer of permanent works to confirm acceptance of lift configuration and induced forces.	BBL
A5	CRANE LIFTS	Service providers to be contacted to inform of bridge lift prior to lift commencing. Any requirements of the asset owners to be fully executed before lift commences.	BBL

DESIGN RISK ASSESSMENTClient: **Yorkshire Dales NPA**Project: **Cross Keys Footbridge****BEAVER BRIDGES LTD**Sheet Ref: **BB1543 - DRA. Rev C01**Date: **06/06/2023**

Item Ref.	Item Description & Possible Hazard	Measures to Reduce Risks	Action By
	Loading of buried services causing damage to infrastructure.		
B	<u>GEOTECHNICAL</u>		
B1	GEOTECHNICAL Hazards associated with crane mats loading uneven ground adjacent to an embankment crest resulting in instability and potential failure.	Bridge will be installed from south embankment side comprising a sloping carriageway. Contractor to ensure crane is positioned to not overload embankment during installation works. Contractor to undertake assessment of ground prior to commencement of works.	BBL
B2	GEOTECHNICAL Risk of overloading buried services resulting to damage to infrastructure or possible injury to personnel.	Service providers to be contacted to inform of bridge lift prior to lift commencing. Any requirements of the asset owners to be fully executed before lift commences.	BBL
B3	GEOTECHNICAL Risk of destabilising embankments by removal of existing footbridge abutments.	The slope to the south embankment is particularly steep therefore removal of the existing abutment will likely disturb the ground causing instability if removed prior to levelling the slope. Therefore it is recommended to leave both abutments in situ and to avoid demolishing.	BBL
C	<u>DEMOLITION</u>		
C1	DEMOLITION Uncontrolled demolition of existing bridge leading to workers being seriously injured.	Contractor to prepare Method Statements and Risk Assessments for works to be undertaken.	BBL
C2	DEMOLITION Partial removal of existing boundary fence giving the public access onto embankment where live construction works are happening.	The boundary fence is required to be partially moved to make way for the construction works. Fence to be realigned at new location immediately prior to commencement of works.	BBL
C3	DEMOLITION Partial demolition of retaining wall causing instability of embankment leading to potential failure.	Contractor to prepare Method Statements and Risk Assessments for works to be undertaken.	BBL

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Item Ref.	Item Description & Possible Hazard	Measures to Reduce Risks	Action By
D	<u>SLIPS, TRIPS AND FALLS</u>		
D1	Working in close proximity to steep embankment.	Contractor to prepare Method Statements and Risk Assessments for works to be undertaken.	BBL