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	<h2>Health & Safety - Designer's Risk Assessment</h2>
	<p>Project Title Elmsbrook Wingwall - Bicester</p>
<p>Assessment Coverage: Detailed design of Elmsbrook Wingwall</p>	

<p>Scope of Works:</p> <ul style="list-style-type: none"> ○ The scope of the proposed works is to design a new retaining wall to stabilise the embankment adjacent to Elmsbrook Bridge, to enable the completion of the bridge cladding works and provide support to the highway. ○ The final arrangement is to install gabion retaining walls which will be founded on mass concrete foundations. A detailed construction sequence has been developed to enable the works, which incorporates sheet piles, and excavation works. <p>Brief Description of the Works:</p> <p>The sequence of works is detailed on the contract drawings which include:</p> <ul style="list-style-type: none"> ● <i>Phase 1</i> <ul style="list-style-type: none"> Install sheet piles Excavate for the furthest 3 columns of gabions; Install waling beam to sheet piles; Construct concrete base; ● <i>Phase 2</i> <ul style="list-style-type: none"> Install the furthest 3 columns of gabions; Install hardwood packing between gabions and end sheet pile. ● <i>Phase 3</i> <ul style="list-style-type: none"> Excavate for the remaining gabions; Construct remaining concrete base; Install bridge cladding; ● <i>Phase 4</i> <ul style="list-style-type: none"> Install remaining gabions; Backfill to gabions; Remove waling beam and sheet piles; Install footway constructions; Complete earthworks; Install fencing.

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Key Risk Reduction measures taken during design process:

The main measures undertaken to reduce risk at this point are:

- Archive information received with contract was reviewed and the findings presented with regards to the existing structure;
- Site visit undertaken to confirm embankment slope and constructability of the works;
- Review of the previously designed sheet pile solution and incorporated the limitations of the driving depth.

Significant Project Specific Hazards Remaining:

At this stage, the project hazards remaining which were unable to be designed out include:

- Presence of buried services;
- Working adjacent to highway;
- Working adjacent to watercourse;
- Working on a steep embankment;
- Potentially unstable slope – Contractor to monitor the slope;
- Potentially unstable sheet piles – Contractor to follow the construction sequencing and do not overdig

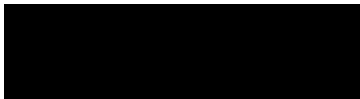
Specific Construction Requirements

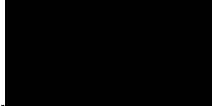
The following measures are deemed necessary in addition to normal working practices that will be delivered by a Competent Contractor.

- Contractor to monitor the excavated slope during the works;
- Contractor to follow the construction sequencing of the excavation works and do not overdig during the works;
- Balanced excavations and maintain plant exclusion zone.

Means by which significant hazards conveyed to contractors and others:

Significant project hazards will be included on the drawings

Assessed by:				
Name	Ben King	Signature		Date 18/10/2019

Reviewed by:				
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