

## Introduction

This note provides an update to Progress Update No 11.

## Active Travel Opportunity

Discussions are still ongoing with Sustrans in relation to potential funding for altering the slip roads and approach road network for Active Travel provision. Should these changes be made, further details will be provided, but in the meantime the replacement bridge design is progressing in parallel.

## Design and Construction timeframes

Detailed design of the bridge commenced in July 2018 and is programmed to be completed in November. The design is progressing to programme. The designer (Mott Macdonald) has completed the following deliverables:

- Agreement in Principle (AIP). Details of the design including traffic loading, materials, construction sequencing, principal dimensions, design codes/standards, service diversions and overall layout have been presented to the Council, and this document has been agreed.
- A Drainage Survey Specification, detailing the survey works necessary to determine appropriate locations to tie into existing drainage pipes, and to determine accurate locations of pipes which may clash with the bridge foundations. Further details below.
- A Ground Investigation (GI) Specification, detailing the boreholes, trial pits, inspection pits, pavement cores and various testing required to inform the foundation design and tie-ins to the existing road pavement. Further details below.
- A Reinforced Soil Specification. The reinforced soil bridge abutments are a specialist item and so will be designed by the supplier during construction stage, in accordance with this specification.
- Beam stress tables, enabling the Contractor to have early discussions with concrete beam suppliers, with the goal of achieving cost and quality benefits during construction.
- A Departure Report and drawings. Due to the necessary headroom requirements and various constraints around the site, some of the bridge alignment design may not be in accordance with published standards. Mitigation measures will be proposed to deal with these.

There are defined checking procedures which are being carried out in parallel with the design. Road Safety Auditing is also being carried out in parallel.



Visualisation of the bridge (image courtesy of Mott Macdonald)

The medium-long term programme for the bridge is as previously advised. Due to the expected value of the contract, Council Committee approval may be required. Subject to timely Committee approval, it is still expected that construction will begin in early 2019, and that the bridge will be open in Autumn 2019.

### **Drainage and GI Surveys**

The drainage and GI surveys detailed above will commence on site on 1<sup>st</sup> October. Works will last 3 weeks. Some A90 lane closures will be in place during the first week; to facilitate drainage survey along the A90 carriageway. Lane closures will be off-peak (09:30 – 16:30) to minimise disruption.

Following a procurement exercise by Balfour Beatty, the drainage survey will be completed by Lanes Group and the GI will be completed by Causeway Geotech. Balfour Beatty will have a site presence to provide welfare facilities and supervise the works.