

A6 MARR Clay Lane Junction Safety Report

DAVIES, Paul [Paul.Davies@cheshireeast.gov.uk]

Sent: 15 October 2014 10:15

To: Richardson, Adam [Adam.Richardson2@aecom.com]

Cc: Naz Huda; Graham Martin; TRAYNOR, Paul [Paul.Traynor@cheshireeast.gov.uk]; ROSS, Andrew

[Andrew.Ross@cheshireeast.gov.uk]; GRIFFITHS, Paul [Paul.Griffiths@cheshireeast.gov.uk]; Durman, Nick

[Nick.Durman@jacobs.com]

Attachments: A6MARR-0-S-52-001-RE-001 (~1.pdf (275 KB); A6MARR-2-W-01-300-SK-002.pdf (455 KB)

Adam

With reference to the Clay Lane Safety Statement (ref A6 MARR-O-S-52-001-RE-001) which relates to Design departures S4 002 and S4 004, I can confirm that Cheshire East Borough Council have reviewed the safety statement and note the suggestions raised to improve the safe operation of the Clay Lane junction.

The principles relating to moving the junction to the west to maximise the distance between the stop line and the roundabout and the associated visibility, radii, signing and surfacing are all accepted in principle. The associated measures to keep speeds down on the approach to the junction with the character of the link between the junction and the roundabout to be very different to that of the slip road are also accepted in principle. We would expect these matters to be addressed as part of the development of the detailed design.

Regards

Paul Davies

Investment Manager
Highway Services Contract
Cheshire East Council Highways

■: 01270 3 75176 or 07748 650 204

□: paul.davies@cheshireeast.gov.uk

Confidentiality: This email and its contents and any attachments are intended only for the above named. As the email may contain confidential or legally privileged information, if you are not the above named person or responsible for delivery to the above named, or suspect that you are

not an intended recipient please delete or destroy the email and any attachments immediately.

Security and Viruses: This note confirms that this email message has been swept for the presence of computer viruses. We cannot accept any responsibility for any damage or loss caused by software viruses.

Monitoring: The Council undertakes monitoring of both incoming and outgoing emails. You should therefore be aware that if you send an email to a person within the Council it may be subject to any monitoring deemed necessary by the organisation from time to time. The views of the author may not necessarily reflect those of the Council.

Access as a public body: The Council may be required to disclose this email (or any response to it) under the Freedom of Information Act, 2000, unless the information in it is covered by one of the exemptions in the Act.

Legal documents: The Council does not accept service of legal documents by email.

https://scnowa1.stockport.gov.uk/owa/?ae=Item&t=IPM.Note&id=RgAAAAC3H%2... 15/10/2014



Grove House Mansion Gate Drive Leeds LS7 4DN T+44 (0)113 262 0000 F +44 (0)113 262 0737 www.grontmij.co.uk

Memo -

Registered Office Grontmij Limited Grove House Mansion Gate Drive Leeds, LS7 4DN

Our Reference A6MARR-0-S-52-001-RE-001

Registered in London

Rosie Simon (CMS)

Project Number P114172

Andrew Russ MSoRSA

29 September 2014

A6 MARR El29 - CPO Objection Clay Lane Alternative Layout

Safety Statement

This safety statement provides an initial assessment of an alternative layout of the Clay Lane link as provided by an Objector to the scheme and shown in drawing 'SK02' provided by CEC/Jacobs - this layout is designed to allow direct access to and from Clay Lane.

This statement follows on from the previous SEMMMS DF3 Stage 1 Safety Audit (ref. ES1/530 -42120 Problem 20) which stated for a very similar layout "incidents involving road users emerging from side road across entry slip and/or nose-to-tail type shunts. Sightlines and forward visibility for traffic exiting Clay Lane left onto the entry slip or across the westbound entry slip onto the eastbound slip for the roundabout maybe compromised due to the geometry of the roundabout. Additionally, road users entering the westbound entry slip for the Relief Road will be accelerating along the westbound entry slip road off the roundabout may not expect a junction on the slip road where traffic may intend to turn off the slip road onto Clay Lane and/or road users emerging from Clay Lane onto or across the slip road".

The Stage 1 RSA recommended "ensure sightlines are maximised for both traffic egressing Clay Lane and traffic exiting the roundabout onto the slip road and/or reduce speeds of traffic entering the slip road".

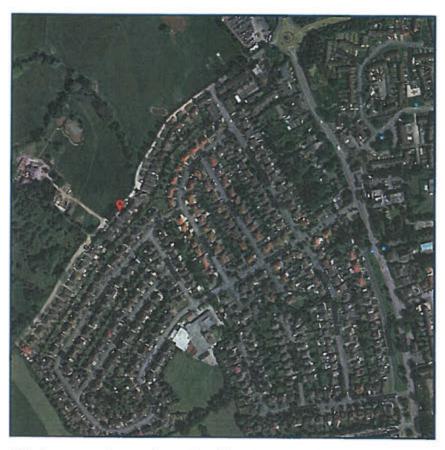
Vehicles exiting the roundabout will be accelerating along the westbound on-slip ready to merge with the westbound mainline, they will not be expecting conflicting traffic in front of them. This traffic will comprise vehicles on the slip road slowing to turn left into Clay Lane - leading to shunts, as well as traffic exiting Clay Lane to access either the roundabout - leading to side-on collisions or turning left onto the slip road - again leading to shunts due to the probable speed differential.

This SK02 layout, which comprised a priority junction, was found to demonstrate similar problems to the above which would be difficult to remediate.

Therefore, SMBC have suggested that that the SK02 layout be signalised and assessed to help satisfactorily control traffic movements. This statement details the safety implications of the SK02 junction layout with the addition of traffic signals as shown on the attached drawing: El029 Clay Lane, Signal Controlled Junction Option, ref. A6MARR-2-W-01-300-SK-002.

The traffic signals will need to be set back a sufficient distance from the roundabout Inscribed Circle Diameter (ICD), such that any queues do not stretch back to the roundabout to ensure that drivers may stop in time, before colliding with the back of the queue, and adequate warning





The link from Clay Lane creates an alternative, direct access to the slip road and roundabout, and could be expected to become a favoured route for drivers from the estate rather than taking the B5358, particularly for those living to the north of Kingston Avenue. This behaviour may be exacerbated should the B5358 become blocked, or otherwise experience significant queues. It is recommended that significant traffic-calming works are undertaken along this length of Clay Lane to deter such undesired use. For example, raising the junctions/accesses would keep traffic speeds low and provide level crossings for pedestrians.

In addition, west of its junction with Wallingford Road, Clay Lane is a restricted bridleway. Together with the combined cycleway/footway which crosses Clay Lane at the roundabout, it is likely that pedestrians, cyclists and equestrians will continue to use this route, and therefore this junction as the shortest route between the bridleway and roundabout, bringing vulnerable road users into conflict with accelerating motor vehicles. Extending an NMU only link from the end of Clay Lane to the footway/cycleway on the southern roundabout, whilst refraining from providing such links at the signalised junction, should tend to remove this hazard.

Signing should be used to warn of the traffic signals, with triangular warning signs incorporated on map-type advance direction signs on the approaches to the southern roundabout. A 'gateway' on the exit from the roundabout, using traffic light warning signs, may also be beneficial.

Finally, the design of the exit from the slip road suggests two-way traffic is likely. The photo below, shows Clay Lane to be narrow, and unable to accommodate two-way traffic, potentially leading to head-on collisions on Clay Lane.



