Medworth Energy from Waste Combined Heat and Power Facility

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Environmental Statement Chapter 6 Appendix 6B Transport Assessment Addendum

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1. Introduction

1.1 Background

- The Medworth Energy from Waste Combined Heat and Power Facility (the Proposed Development) is the subject of an application for development consent (the Application) that was submitted by Medworth CHP Limited (the Applicant) to the Secretary of State for Energy Security and Net Zero (hereafter referred to as the Secretary of State) via the Planning Inspectorate (the Inspectorate) in July 2022. The Application was accepted by the Inspectorate on 2 August 2022 and the Examination commenced on 21 February 2023.
- The Applicant is making a request for non-material changes to the Application. The changes have been identified as a result of recent technical discussions with highways officers from Cambridgeshire County Council (CCC) on the specification of Work No. 4A following written and oral submissions at Issue Specific Hearing (ISH) 2 and Compulsory Acquisition Hearing 2 by CCC as part of the Examination. As CCC has only recently engaged with the Applicant on the design of Work No. 4A, the Applicant does not consider that it would have been possible to identify and make these changes at an earlier stage in the process.
- The Applicant submitted a Change Notification Letter on 18 May 2023 (the Applicant's Letter). The Examining Authority (ExA) issued a procedural decision in respect of the Applicant's Letter on 26 May 2023 (the ExA's Procedural Decision).
- On 05 June 2023 the Applicant submitted a change request and undertook nonstatutory consultation in response to advice received from the ExA on 13 June 2023. On 28 July, the ExA accepted the changes into the examination.

1.2 **Proposed Changes**

- 1.2.1 Two changes are proposed to the Application:
 - Change 1: Minor amendments to the Order limits within the boundary of the existing public highway at the junction of Cromwell Road and New Bridge Lane to facilitate the carrying out of the Access Improvements to the public highway forming part of Work No. 4A (the "Cromwell Road Junction Signal Scheme").
 - Change 2: Minor amendments to the Order limits within the boundary of the existing public highway at the junction of New Bridge Lane and Salters Way to install proposed drop kerbs to the existing pavement forming part of Work No. 4A (the "Salters Way Junction Pavement Works").
- 1.2.2 These changes are proposed following extensive discussions with highways officers at Cambridgeshire County Council (CCC).
- ^{1.2.3} Further information on the need for the Proposed Change is provided in **the Change Application Report (Volume 13.2).**

1.3 Summary of Consultation with CCC Highways

- 1.3.1 Considerable consultation with CCC highways officers regarding the proposed changes has been undertaken and is ongoing. Consultation activities have included:
 - Online meeting on 13 April 2023;
 - Site meeting in person on 27 April 2023; and
 - Online meeting on 01 June 2023.
- ^{1.3.2} The Applicant has prepared the Cromwell Road Junction Signal Scheme and the Salters Way Junction Pavement Works in consultation with CCC. The signal scheme was discussed with CCC at the meeting on 27 April 2023 at which the Applicant's earlier proposal for signalisation was reviewed and amendments discussed. Updated drawings (to include the pavement works), the LinSig model and Road Safety Audit were then submitted to CCC on 25 May 2023. Subsequent to this submission, a meeting was held with CCC to discuss the design on 01 June 2023 and it was at this meeting that, whilst subject to technical confirmation, the CCC highways officers stated they had no in principle objections to the Applicant's proposals. The Applicant and CCC continue to work together constructively.
- Following the period of non statutory consultation, CCC and the Applicant met to discuss the modelled results on 06 July 2023. A subsequent meeting was then held on 02 August 2023.

1.4 Purpose of the Transport Assessment Addendum

This document, **the ES Chapter 6 Traffic and Transport Appendix 6B Transport Assessment Addendum (Volume 3.11) (the TA Addendum),** has been produced to present the design schemes and results assessment and auditing carried out in relation to the Proposed Changes. This document (revision 2) includes additional modelling undertaken at the request of CCC at the meeting of 06 July 2023. The additional modelling includes a separate signal for right turns from Cromwell Road (S) into New Bridge Lane (E).

1.5 Content of the Transport Assessment Addendum

- 1.1.7 The TA Addendum includes the following:
 - Section 1: Introduction; setting out details of the Change Request Application and the purpose of the TA Addendum;
 - Section 2: Proposed Changes; outlining the approach adopted in the design development of the proposed signalisation of Cromwell Road/New Bridge Lane junction, New Bridge Lane widening and Salters Way junction pavement works;
 - Section 3: Junction Assessment; outlining the proposed design of the signal scheme and operational assessment;
 - Section 4: Safety Audit: a stage one safety audit of the junction; and
 - Section 5: Conclusion; provides a summary of the TA Addendum.

2. Proposed Changes

2.1 Background

- The B198 Cromwell Road/New Bridge Lane junction is currently a four-arm priority junction in which the New Bridge Lane East and West arms are the minor arms, and Cromwell Road is the major arm. Access from the Cromwell Road is provided into the New Bridge Lane arms by way of ghost right turn lanes.
- Volume 6.4 ES Chapter 6 Traffic and Transport Appendix 6B Transport Assessment [APP-073] included a minor improvement design scheme at the junction comprising an informal pedestrian crossing. A junction capacity assessment concluded that there was sufficient capacity to accommodate the operational traffic generated by the Proposed Development. Draft DCO (Volume 3.1) [REP3-007] submitted at Deadline 3 included for a section of widening of New Bridge Lane in order to accommodate HGVs.
- 2.1.3 Consultation with highways officers at CCC post submission of the DCO application and during a meeting on 27 April 2023 identified that, in their opinion, the Cromwell Road/New Bridge Lane junction would need to be signalised for road safety reasons. CCC highways officers cited site observations of slow-moving HGVs turning right into New Bridge Lane from the Cromwell Road southern arm which impeded the flow of traffic on the Cromwell Road northern arm. Control of traffic movements at the junction in the form of signalisation was identified by CCC officers as the solution to ensure that the junction would provide safe and efficient access to New Bridge Lane for HGV traffic during the construction and operational phases of the Proposed Development.
- The proposed improvement scheme is signalisation of all arms of the junction, including a pedestrian crossing on the New Bridge Lane (East) arm.
- Existing access arrangements to adjacent properties, land uses and highways boundary have been considered within the design process. New Bridge Lane West arm provides servicing access into the adjacent Tesco supermarket and New Bridge Lane East provides access to a number of existing industrial properties. The design has therefore included adequate provision for HGV vehicles and maintained existing access arrangements.
- In addition to the Cromwell Road/New Bridge Lane junction, changes to the design of the New Bridge Lane widening proposals have been discussed with CCC officers based on the need to improve the road safety environment for non-motorised users (NMUs) which include pedestrians and cyclists.
- The design approach for the junction is set out in **Section 2.2** below and proposed changes to the New Bridge Lane widening is set out in **Sections 2.3 and 2.4**.

2.2 Proposed Cromwell Road Junction Signal Scheme

- ^{2.2.1} The signal junction design has been developed using both national and local design guidance, including the following documents:
 - Chapter 5 Road Markings (2018) of the Traffic Signs Manual (TSM), Department for Transport (DfT);
 - Chapter 6 Traffic Control (2019) of the TSM; and
 - Standard Specification for Traffic Signals and Systems, CCC, April 2021.
- 2.2.2 The proposed layout of the signal scheme is shown in **Figure 10.1iv Rev1A Cromwell Road/New Bridge Lane Signal Scheme – General Arrangement** in the **Outline CTMP Rev 7** submitted at Deadline 7. The proposed scheme comprises the following components:
 - Provision of stop lines and primary and secondary traffic signal columns on all arms of the junction;
 - Realignment of the kerbs throughout the junction to accommodate additional lanes and the swept path of anticipated HGV movements.
 - Provision of islands within the junction to accommodate the new traffic signal equipment.
 - Provision of signalised right turns on the B198 North and South arms with right turn only lanes and right turn road markings mid junction.
 - Provision of a signalised pedestrian crossing over New Bridge Lane East arm.
 - Provision of all necessary road markings to ensure clear guidance to vehicles.
- 2.2.3 The design has been tested for its suitability to accommodate HGV vehicles by undertaking swept path assessments of junction turning movements using Autodesk Vehicle Tracking software. Figure 9.2i and ii AIL SPA - Cromwell Road / New Bridge Lane in the Outline CTMP Rev 7 submitted at Deadline 7 shows the swept path of an articulated HGV and it demonstrates that anticipated HGV movements can be accommodated within the proposed junction layout.

2.3 New Bridge Lane Widening Scheme

- ^{2.3.1} The New Bridge Lane widening seeks to widen New Bridge Lane carriageway to 6.8m wide to accommodate HGV movements generated by the Medworth EfW CHP Facility Site.
- Included in the DCO application is a proposal to reopen New Bridge Lane across the disused March to Wisbech Railway, with the agreement of Network Rail, and to enable the Applicant to take access from Cromwell Road into the proposed EfW CHP Facility Site.
- New Bridge Lane will be closed east of the proposed site access and that as such it will not operate as a through route for vehicular traffic.

Salters Way Junction Pavement Works

^{2.3.4} The Salters Way Junction Pavement Works comprise an element of the New Bridge Lane Widening Scheme and consist of improvement works in the form of a dropped kerb crossing and tactile paving planned for the southern end of Salters Way for the benefit of pedestrians and other NMUs.

3. Junction Assessment

3.1 Introduction

- Agreed in advance with CCC, the proposed signalisation of Cromwell Road/New Bridge Lane junction was tested for capacity using industry standard Linsig software. As there is an existing Cromwell Road/Tesco traffic signal junction located less than 100 metres to the north, the LinSig model linked both junctions in order to optimise the signal design to minimise delays in the internal links between these two junctions and therefore the risk of tailback queues.
- 3.1.2 The following sections summarise the modelling approach and the junction capacity appraisal results.

3.2 Traffic Flows

- The traffic turning data at the Cromwell Road/New Bridge Lane junction has been based on the traffic data provided in **Volume 6.4 ES Chapter 6 Traffic and Transport Appendix 6B Transport Assessment [APP-073].**
- 3.2.2 Traffic data for Tesco junction has been derived from the LinSig model provided by CCC highways officers. These traffic flows have been used to calculate the turning movements of the Tesco junction for the future scenarios based on the traffic growth rates includes in Volume 6.4 ES Chapter 6 Traffic and Transport Appendix 6B Transport Assessment [APP-073], as set out in Table 3.1 below. It is noted that the Tesco LinSig model was calibrated against the traffic surveys undertook by Tesco in 2016.

Time Period	Light Vehicles	HGVs
Weekday AM Peak	1.0599	1.0946
Weekday PM Peak	1.0606	1.0953

Table 3.1 TEMPro Growth Rates: 2021- 2027

- The above growth rates have been applied to the 2021 survey data to derive future year baseline traffic flows for year 2027 for the Tesco junction when the Proposed Development is expected to operate.
- The operational traffic flows generated by the Proposed Development for the AM Peak and PM Peak have been derived from Figure 7.3 and Figure 7.4 of **Volume 6.4 ES Chapter 6 Traffic and Transport Appendix 6B Transport Assessment [APP-073]**.
- The 2027 baseline with development flows for AM Peak and PM Peak are summarised in **Figure 3.1 and Figure 3.2** below.

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Figure 3.1 2027 Future Flows + Development Flows AM Peak

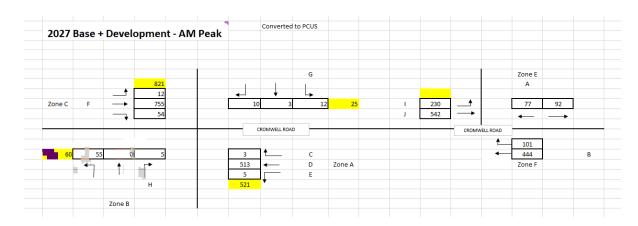
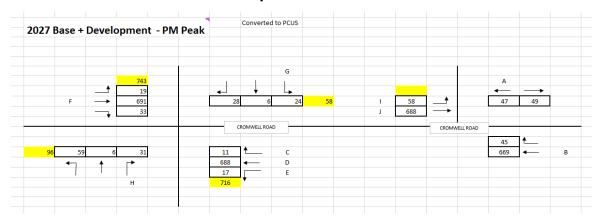


Figure 3.2 2027 Future Flows + Development Flows PM Peak



3.3 Modelling Approach

^{3.3.1} The linked LinSig model has been constructed using the following data sources:

- The geometric data of Cromwell Road/New Bridge Lane junction have been based on Figure 10.1iv Rev1A Cromwell Road/New Bridge Lane Signal Scheme – General Arrangement in the Outline CTMP Rev 4A. Geometric data for the existing Cromwell Road/Tesco junction has been from the Ordnance Survey Master Map.
- The signal timings, phases and cycle times for the Tesco junction have been based on the controller spec dated 14-01-2014 version 114/02/2014MM provided by CCC.
- The proposed signal timing, phases and intergreen times of the proposed Cromwell Road/New Bridge Lane traffic signal have been developed in accordance with TSM Chapter 6 and CCC traffic signal standard specification.
- The New Bridge Lane Signal Scheme has included a separate signal for the small number of right turn traffic generated by the Proposed Development. In the meeting on 6 July 2023, CCC acknowledged that the modelling results need to be viewed

with some caution due the right turn flow and the right turn signal for NBL does not need to be called every cycle. The New Bridge Lane Signal Scheme has been tested conservatively with double cycles and the right turn signal to New Bridge Lane to be called every two cycles and pedestrian phases are called every cycle.

- ^{3.3.3} The junction capacity assessment has been carried out for the following:
 - Scenario 1 2027 Future Baseline +Development.
- ^{3.3.4} In addition, two sensitivity scenarios have been modelled:
 - Scenario 2 2027 Future Baseline +Development, traffic flows increased by 10%.
 - Scenario 3 2027 Future Baseline +Development, traffic flows increased by 20%.

3.4 Analysis and Results

- LinSig modelling results are presented as the Degree of Saturation (DoS) and the Mean Maximum Queue (MMQ) which is shown in Passenger Car Units (PCUs) for each lane of the junction.
- A DoS of 100% indicates that the lane in question is operating at its absolute capacity (point of saturation), whilst a DoS of 90% or less indicates that the lane is operating within its practical capacity. LinSig also refers to the Practical Reserve Capacity (PRC) of which a positive value indicates that the junction is operating within capacity and a negative value means the junction is over capacity.
- ^{3.4.3} The LinSig model outputs are presented in **Appendix A**.

Scenario 1: 2027 Future Baseline Flows + Development Traffic

The future year baseline flows along with development traffic have been modelled and the results obtained for AM Peak and PM Peak are shown in **Table 3.2 and Table 3.3** below.

Junctions	Lane	Sat (%)	Delay (s/PCU)	Queue (PCU)
Cromwell	Cromwell Road (SB) - internal link	55.4	18.2	6.6
Road/ New Bridge Lane	New Bridge Lane (WB)	44.8	70.8	2.2
Junction	Cromwell Road (NB)	64.4	16.9	16.7

Table 3.2 2027 Scenario 1: AM Peak Results

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Junctions	Lane	Sat (%)	Delay (s/PCU)	Queue (PCU)
	New Bridge Lane (EB)	18.8	62.5	0.9
Tesco	Cromwell Road (SB)	46.9	13.7	8.4
Junction	Tesco Exit Left: Right	24.5: 29.9	39.9: 50.4	2.5:2.3
	Tesco Entrance	17.1	1.1	1.2
	Cromwell Road (NB) – internal link	58.8	4.2	4.0
	Cycle Time (s)	210		
	PRC (%)	39.7		
	Delay (PCU/Hr)	13.27		

Table 3.3 2027 Scenario 1: PM Peak Results

Junctions	Lane	Sat (%)	Delay (s/PCU)	Queue (PCU)
Cromwell	Cromwell Road (SB) - internal link	76.1	20.0	7.7
Road/ New Bridge	New Bridge Lane (WB)	70.0	88.8	3.8
Lane Junction	Cromwell Road (NB)	58.4	14.7	14.0
	New Bridge Lane (EB)	43.4	69.9	2.0
Tesco	Cromwell Road (SB)	63.1	18.0	14.3
Junction	Tesco Exit Left: Right	13.3:17.9	38.7:48.2	1.3:1.3
	Tesco Entrance	13.8	1.1	0.1
	Cromwell Road (NB) – internal link	56.4	5.1	4.0
	Cycle Time (s)	210		

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Junctions	Lane	Sat (%)	Delay (s/PCU)	Queue (PCU)
	PRC (%)	18.3		
	Delay (PCU/Hr)	16.37		

- ^{3.4.5} The junction capacity modelling results indicate that the junction would operate within capacity during both the AM Peak and PM Peak with the Proposed Development traffic flows. A queue of approximately seven PCU over two lanes is predicted on Cromwell Road southbound arm between the two junctions (internal link) during the AM Peak and eight PCU in the PM peak. Although this is more than the stacking space for around three PCU per lane (therefore six PCU), the queue chart shows the queue is cleared during the green period, thereby avoiding a tailback issue. It is also recognised that the demand for the right turn signal to New Bridge Lane will be dispersed over the assessment period and the low demand for the pedestrian crossings at the New Bridge Lane Signal Scheme and at the existing Tesco traffic signal in reality. The modelling results therefore represent the worst-case scenario.
- ^{3.4.6} Despite this, the PRC values are positive for both peak periods, 39.7% in the AM peak and 18.3% in the PM peak, indicating that there is spare capacity at both traffic signal junctions.

Sensitivity Testing

Given the queue length, in order to determine the sensitivity level of the LinSig model to the increase in traffic flows, the model has been tested with total traffic flows (baseline and Proposed Development) being increased by 10% (Scenario 2) and by 20% (Scenario 3) as described below.

Scenario 2: 2027 Future Baseline Flow + Development Traffic, Traffic flows increased by 10%

3.4.8 The results of this scenario are summarised in **Table 3.4 and Table 3.5**.

Junction	Lane	Sat (%)	Delay (s/PCU)	Queue (PCU)
Cromwell Road/	Cromwell Road (SB) - internal link	60.9	20.0	13.5
	New Bridge Lane (WB)	50.0	73.1	2.4
	Cromwell Road (NB)	70.8	18.8	20.1

Table 3.4 2027 Scenario 2: AM Peak Results

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Junction	Lane	Sat (%)	Delay (s/PCU)	Queue (PCU)
New Bridge Lane Junction	New Bridge Lane (EB)	20.4	62.6	0.9
Tesco	Cromwell Road (SB)	51.6	14.5	10.6
Junction	Tesco Exit Left : Right	27.5: 32.6	40.9:50.9	2.7:2.5
	Tesco Entrance	18.8	1.1	1.2
	Cromwell Road (NB) – internal link	64.3	4.8	3.7
	Cycle Time (s)	210		
	PRC (%)	27.1		
	Delay (PCU/Hr)	15.73		

Table 3.5 2027 Scenario 2 : PM Peak Results

Junction	Lane	Sat (%)	Delay (s/PCU)	Queue (PCU)
Cromwell	Cromwell Road (SB) - internal link	83.6	25.4	22.7
Road/ New	New Bridge Lane (WB)	77.2	100.1	4.7
Bridge Lane	Cromwell Road (NB)	64.2	16.0	16.6
Junction	New Bridge Lane (EB)	48.6	72.5	2.4
Tesco	Cromwell Road (SB)	67.3	18.1	17.2
Junction	Tesco Exit Left: Right	14.7:19.4	39.3:48.5	1.4:1.5
	Tesco Entrance	15.2	1.1	0.1
	Cromwell Road (NB) – internal link	62.1	6.2	4.8

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Junction	Lane	Sat (%)	Delay (s/PCU)	Queue (PCU)
	Cycle Time (s)	210		
	PRC (%)	7.6		
	Delay (PCU/Hr)	20.13		

The results summarised in **Table 3.4 and 3.5** shows that the junction is predicted to operate well with spare capacity. Queue length is anticipated to build up on the Cromwell Road SB internal link which is expected due to its short distance with the Tesco traffic signal junction. The queue chart indicates this queue length is gradually cleared during the assessment period. In the meeting with CCC on 02 August 2023, it was agreed and recognised this scenario is a sensitivity test and therefore the proposed signal staging for the New Bridge Lane Scheme will be reviewed and finalised at the detailed design stage.

Scenario 3: 2027 Future Baseline Flow + Development Traffic, Traffic flows increased by 20%

3.4.10 The results of this scenario are summarised in **Table 3.6 and Table 3.7**.

Junction	Lane	Sat (%)	Delay (s/PCU)	Queue (PCU)
Cromwell	Cromwell Road (SB) - internal link	63.5	20.2	15.7
Road/ New Bridge	New Bridge Lane (WB)	56.3	81.0	2.9
Lane Junction	Cromwell Road (NB)	75.6	20.5	24.0
	New Bridge Lane (EB)	23.6	66.8	1.1
Tesco	Cromwell Road (SB)	54.4	14.2	11.8
Junction	Tesco Exit Left: Right	31.6: 37.8	44.3:55.0	3.1:2.9
	Tesco Entrance	20.5	1.2	1.2
	Cromwell Road (NB) – internal link	68.8	5.2	4.4

Table 3.6 2027 Scenario 3: AM Peak Results

Junction	Lane	Sat (%)	Delay (s/PCU)	Queue (PCU)
	Cycle Time (s)	220		
	PRC (%)	19.1		
	Delay (PCU/Hr)	18.15		

Table 3.7 2027 Scenario 3: PM Peak Results

Junction	Lane	Sat (%)	Delay (s/PCU)	Queue (PCU)
Cromwell	Cromwell Road (SB) - internal link	87.2	28.2	26.9
Road/ New Bridge	New Bridge Lane (WB)	87.8	135.5	6.6
Lane Junction	Cromwell Road (NB)	68.6	17.1	19.5
	New Bridge Lane (EB)	54.9	80.6	2.9
Tesco	Cromwell Road (SB)	70.9	18.4	19.8
Junction	Tesco Exit Left: Right	16.5:22.8	42.1:52.1	1.7:1.8
	Tesco Entrance	16.5	1.1	0.1
	Cromwell Road (NB) – internal link	66.5	6.0	7.6
	Cycle Time (s)	220		
	PRC (%)	2.5		
	Delay (PCU/Hr)	24.33		

The results in **Table 3.6 and Table 3.7** indicate that both junctions are anticipated to operate with spare capacity even when the future baseline and development flows are increased to 20%. A longer queue may develop on the Cromwell Road (SB) at the New Bridge Lane junction that affects the Tesco junction in the AM peak. It is noted that this is a robust approach as the 20% growth is applied both baseline and Proposed Development traffic.

3.5 Conclusion

- 3.5.1 The traffic model results indicate the proposed signalisation of the Cromwell Road/New Bridge Lane and the Tesco junctions with the Proposed Development would operate with spare capacity. Therefore, it can be concluded that the development traffic would have no significant effect on the operation of the junction.
- The proposed signal timings will need to be further reviewed and finalised during the detailed design stage or when the traffic flows at these junctions are increased by 10% and over to avoid a long queue on Cromwell Road SB internal link.

4. Safety Audit

4.1 Stage 1 Road Safety Audit (RSA)

- A Stage 1 RSA was undertaken on Friday 12 May 2023 for the proposed Cromwell Road/New Bridge Lane traffic signal layout and the alterations proposed along New Bridge Lane to widen it to 6.8m wide to accommodate HGV movements generated by the proposed EfW CHP Facility.
- ^{4.1.2} The RSA examined the documents and drawings provided in the RSA brief and supplied to the RSA team, and the RSA has been conducted in accordance with the Design Manual for Roads and Bridges (DMRB) Standard GG 119 Road Safety Audit, Revision 2.
- ^{4.1.3} Fourteen potential road safety matters were identified and recommendations for potential mitigation measures to be considered by the design team are also included in the RSA report. The RSA report has not highlighted any major road safety issues.
- A copy of the Stage 1 RSA Brief and Stage 1 RSA Report is included as **Appendix B and Appendix C** respectively.

4.2 Stage 1 RSA Response Report

- ^{4.2.1} A response report has been prepared by the design team and submitted to the Overseeing Organisation (CCC) for approval. A copy of the Stage 1 RSA Response Report is included as **Appendix D**.
- ^{4.2.2} The response report addresses the road safety matters raised in the RSA, and includes the following:
 - The recommended action to provide maintenance access for the relocated existing compact sub-station on New Bridge Lane (East) has been rejected by the design team as the maintenance work would be done by a small team under a temporary traffic management therefore a dedicated access would not be required.
 - Four recommended actions will be discussed and developed in the detailed design stage. These are:
 - Relocation of the existing Copart traffic sign on New Bridge Lane;
 - Proposed signal staging at New Bridge Lane / Cromwell Road junction. The LinSig traffic signal model has been submitted to CCC for review and approval;
 - Limited restrictions along New Bridge Lane (East); and
 - ► Traffic signal 'see through effect' on Cromwell Road.

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4.3 Consultation Response

^{4.3.1} The Response Report has responded to all of the matters highlighted in the Stage 1 RSA and whilst subject to confirmation, the Applicant understands from CCC that there are no in principle objections to the conceptual layout

5. Conclusion

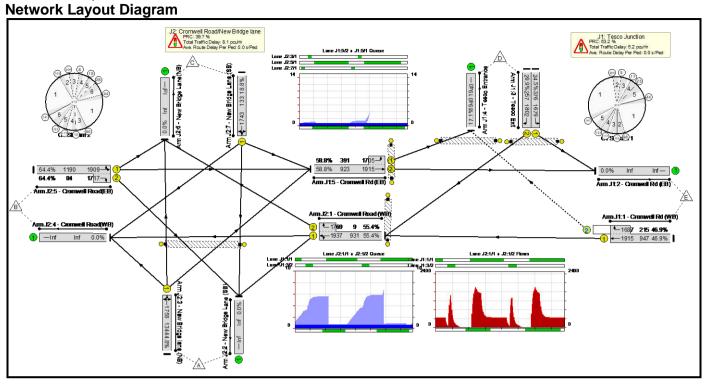
- 5.1.1 Ongoing consultation has been undertaken with CCC for the proposed traffic signal junction layout and the proposed traffic signal operation.
- ^{5.1.2} A Stage 1 Road Safety Audit has not identified any major issues with the proposed signalisation of the Cromwell Road / New Bridge Lane junction and the changes along New Bridge Lane.
- ^{5.1.3} While one action recommended by the RSA was deemed not required, the remaining recommendations were accepted and have been addressed in the proposed layout submitted by the Applicant.
- 5.1.4 CCC has reviewed the Applicant's proposed signalised junction arrangements. The modelling, signal staging, and phasing, along with the Stage 1 Safety Audit were discussed in meetings on 06 July and on 02 August 2023, the second of these meetings to discuss the further modelling undertaken by the Applicant at CCCs request. There are no in principle objections to the conceptual layout as confirmed by CCC in its email of 02 August 2023 which considered the model to be robust. Matters of detail can be agreed at detailed design.
- ^{5.1.5} The land subject to the change application is within the public highway (subject to CCC's general caveats regarding highway boundaries), except for an area that CCC intends to adopt once a Provisional Certificate is issued to Tesco Stores Ltd under an existing S278 agreement (13 December 2013). CCC are actively pursuing this matter and a Provisional Certificate might be secured within the Examination timeframe, however there is no guarantee. Other options are available and the Applicant has sought powers within the DCO to secure temporary possession of the land. The landowner, Tesco, has confirmed that it has no objection to this approach.

Appendix A LinSig Results

User and Project D	
Project:	Medworth Energy from Waste Combined Heat and Power Facility DCO
Title:	Junction Upgrading
Location:	Cromwell Road/New Bridge lane Medworth
Client:	Medworth Energy Limited
Date Started:	09/05/23
Date Completed:	18/05/23-updated on 17/07/23
Model Purpose:	Scheme Design Only
Flow Details:	The flow data for Cromwell Road/New Bridge Lane has been calculated based on 2027 Baseline flow data.(Please refer the flow calculation spreadsheet)
Safety Considerations:	None
Checked By:	Amber Elkin
Checked By Date:	18/05/23-checked on 17/07/23
Additional detail:	Signal information for Tesco junction are taken from Controller Spec(14/01/2014) Signal Information for cromwell roadjunction has been advised by CCC. Although this has been modelled on a single controller with two seperate streams, this may not be how these junctions operate on site. Descisions regarding whether a new controller is required is to be made by the traffic signal designer.
File name:	Medworth Cromwell RoadNew Bridge Lane V4.1- Base+Scenario tested - AE Update (002).lsg3x
Author:	Varsha Suresh
Company:	WSP UK Limited
Address:	Amber CourtWilliam Armstrong DriveNewcastle upon Tyne NE4 7YQUnited KingdomTel +44 (0)191 226 2000

User and Project Details

Scenario 1: '2027 Base+Development AM Peak' (FG1: '2027 Development flows- AM Peak', Plan 1: 'Network Control Plan 1')



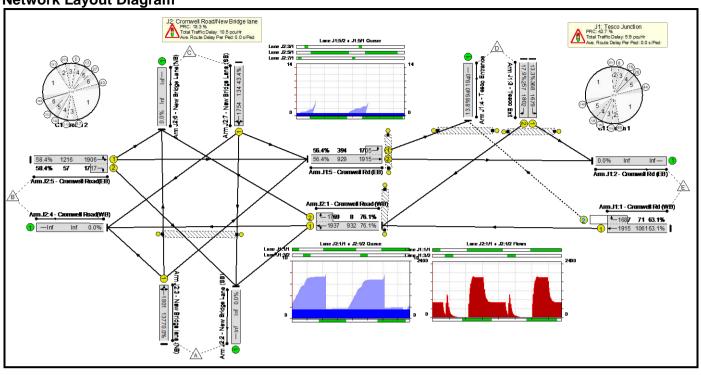
Basic Results Summary Network Results

ltem	Lane Description	Lane Type	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Mean Max Queue (pcu)
Network: Junction Upgrading	-	-	-		-	-	-	-	-	-	64.4%	0	98	3	13.3	-	-
J1: Tesco Junction	-	-	-		-	-	-	-	-	-	58.8%	0	98	3	5.2	-	-
1/1+1/2	Cromwell Rd (WB) Right Ahead	U+O	В	С	2	125	9	545	1915:1687	947+215	46.9 : 46.9%	0	98	3	2.1	13.7	8.4
3/1	Tesco Exit Left	U	Е	D	2	45	17	92	1679	376	24.5%	-	-	-	1.0	39.9	2.5
3/2	Tesco Exit Right	U	Е		2	28	-	77	1802	257	29.9%	-	-	-	1.1	50.4	2.3
4/1	Tesco Entrance	U	-		-	-	-	331	1940	1940	17.1%	-	-	-	0.1	1.1	1.2
5/2+5/1	Cromwell Rd (EB) Ahead Left	U	A	F	2	141:151	10	772	1915:1705	923+391	58.8 : 58.8%	-	-	-	0.9	4.2	4.0
Ped Link: P1	Tesco Entrance	-	J		2	8	-	0	-	0	0.0%	-	-	-	-	-	-
Ped Link: P2	Tesco Exit	-	I		2	141	-	0	-	0	0.0%	-	-	-	-	-	-
Ped Link: P3	Cromwell Road EB	-	G		2	31	-	0	-	0	0.0%	-	-	-	-	-	-
Ped Link: P4	Cromwell Road NB	-	н		2	17	-	0	-	0	0.0%	-	-	-	-	-	-
J2: Cromwell Road/New Bridge lane	-	-	-		-	-	-	-	-	-	64.4%	0	0	0	8.1	-	-
1/1+1/2	Cromwell Road (WB) Left Ahead Right	U	LP		2:1	99:7	-	521	1937:1769	931+9	55.4 : 55.4%	-	-	-	2.6	18.2	6.6
3/1	New Bridge Iane (NB) Right Left Ahead	U	N		2	14	-	60	1758	134	44.8%	-	-	-	1.2	70.8	2.2
5/1+5/2	Cromwell Road(EB) Ahead Right Left	U	KQ		2	139:14	-	821	1909:1717	1190+84	64.4 : 64.4%	-	-	-	3.8	16.9	16.7

Basic Results Summary

7/1	New Bridge Lane (SB) Left Ahead Right	U	М		2	14	-	25	1743	133	18.8%	-	-	-	0.4	62.5	0.9
Ped Link: P1	New Bridge Lane Crossing	-	0		2	10	-	0	-	0	0.0%	-	-	-	-	-	-
		C1 C1		n: 2 PRC fo	or Signalled or Signalled C Over All Li	Lanes (%):	53.2 39.7 39.7	Total	Delay for Signa Delay for Signa Total Delay Ove	Illed Lanes (po	cuHr):	5.07 8.09 13.27	Cycle Time (s): 2 Cycle Time (s): 2			-	

Basic Results Summary Scenario 2: '2027 Base+Development PM Peak' (FG2: '2027 Development flows PM Peak', Plan 1: 'Network Control Plan 1') Network Layout Diagram



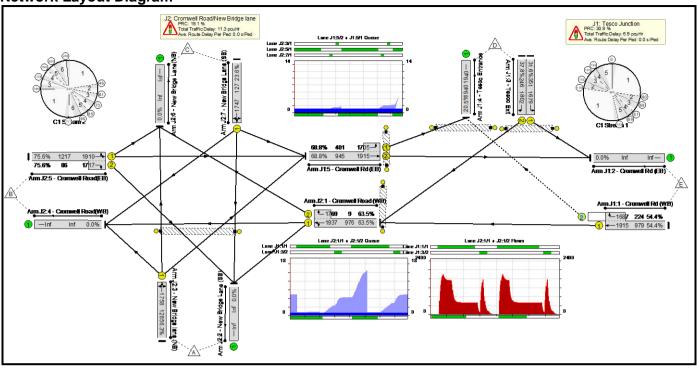
Basic Results Summary Network Results

ltem	Lane Description	Lane Type	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Mean Max Queue (pcu)
Network: Junction Upgrading	-	-	-		-	-	-	-	-	-	76.1%	0	44	1	16.4	-	-
J1: Tesco Junction	-	-	-		-	-	-	-	-	-	63.1%	0	44	1	5.9	-	-
1/1+1/2	Cromwell Rd (WB) Right Ahead	U+O	В	С	2	122	8	714	1915:1687	1061+71	63.1 : 63.1%	0	44	1	3.6	18.0	14.3
3/1	Tesco Exit Left	U	Е	D	2	44	16	49	1679	368	13.3%	-	-	-	0.5	38.7	1.3
3/2	Tesco Exit Right	U	Е		2	28	-	46	1802	257	17.9%	-	-	-	0.6	48.2	1.3
4/1	Tesco Entrance	U	-		-	-	-	267	1940	1940	13.8%	-	-	-	0.1	1.1	0.1
5/2+5/1	Cromwell Rd (EB) Ahead Left	U	A	F	2	142:152	10	746	1915:1705	929+394	56.4 : 56.4%	-	-	-	1.1	5.1	4.0
Ped Link: P1	Tesco Entrance	-	J		2	8	-	0	-	0	0.0%	-	-	-	-	-	-
Ped Link: P2	Tesco Exit	-	I		2	142	-	0	-	0	0.0%	-	-	-	-	-	-
Ped Link: P3	Cromwell Road EB	-	G		2	30	-	0	-	0	0.0%	-	-	-	-	-	-
Ped Link: P4	Cromwell Road NB	-	Н		2	20	-	0	-	0	0.0%	-	-	-	-	-	-
J2: Cromwell Road/New Bridge lane	-	-	-		-	-	-	-	-	-	76.1%	0	0	0	10.5	-	-
1/1+1/2	Cromwell Road (WB) Left Ahead Right	U	LP		2:1	99:7	-	715	1937:1769	932+8	76.1 : 76.1%	-	-	-	4.0	20.0	7.7
3/1	New Bridge Iane (NB) Right Left Ahead	U	N		2	14	-	96	1801	137	70.0%	-	-	-	2.4	88.8	3.8
5/1+5/2	Cromwell Road(EB) Ahead Right Left	U	КQ		2	139:14	-	743	1906:1717	1216+57	58.4 : 58.4%	-	-	-	3.0	14.7	14.0

Basic Results Summary

7/1	New Bridge Lane (SB) Left Ahead Right	U	М		2	14	-	58	1754	134	43.4%	-	-	-	1.1	69.9	2.0
Ped Link: P1	New Bridge Lane Crossing	-	0		2	10	-	0	-	0	0.0%	-	-	-	-	-	-
		C1 C1		n: 2 PRC fo	or Signalled or Signalled C Over All La	Lanes (%):	42.7 18.3 18.3	Total	Delay for Signa Delay for Signa Total Delay Ove	Illed Lanes (po	cuHr):	5.79 10.50 16.37	Cycle Time (s): 2 Cycle Time (s): 2		-		

Basic Results Summary Scenario 3: '2027 Baseline Increased by 20% AM Peak' (FG3: '2027 Base+Dev increased by 20%-AM Peak', Plan 1: 'Network Control Plan 1') Network Layout Diagram



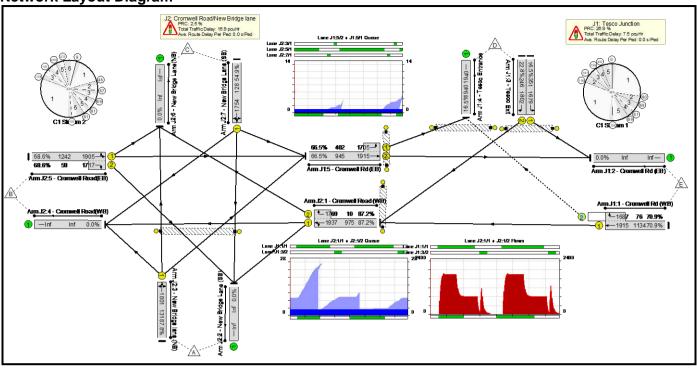
Basic Results Summary Network Results

ltem	Lane Description	Lane Type	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Mean Max Queue (pcu)
Network: Junction Upgrading	-	-	-		-	-	-	-	-	-	75.6%	0	119	3	18.2	-	-
J1: Tesco Junction	-	-	-		-	-	-	-	-	-	68.8%	0	119	3	6.9	-	-
1/1+1/2	Cromwell Rd (WB) Right Ahead	U+O	В	С	2	136	8	655	1915:1687	979+224	54.4 : 54.4%	0	119	3	2.6	14.2	11.8
3/1	Tesco Exit Left	U	Е	D	2	44	16	111	1679	351	31.6%	-	-	-	1.4	44.3	3.1
3/2	Tesco Exit Right	U	Е		2	28	-	93	1802	246	37.8%	-	-	-	1.4	55.0	2.9
4/1	Tesco Entrance	U	-		-	-	-	398	1940	1940	20.5%	-	-	-	0.1	1.2	1.2
5/2+5/1	Cromwell Rd (EB) Ahead Left	U	A	F	2	152:162	10	926	1915:1705	945+401	68.8 : 68.8%	-	-	-	1.3	5.2	4.4
Ped Link: P1	Tesco Entrance	-	J		2	8	-	0	-	0	0.0%	-	-	-	-	-	-
Ped Link: P2	Tesco Exit	-	I		2	152	-	0	-	0	0.0%	-	-	-	-	-	-
Ped Link: P3	Cromwell Road EB	-	G		2	30	-	0	-	0	0.0%	-	-	-	-	-	-
Ped Link: P4	Cromwell Road NB	-	н		2	16	-	0	-	0	0.0%	-	-	-	-	-	-
J2: Cromwell Road/New Bridge lane	-	-	-		-	-	-	-	-	-	75.6%	0	0	0	11.3	-	-
1/1+1/2	Cromwell Road (WB) Left Ahead Right	U	LP		2:1	109:7	-	626	1937:1769	976+9	63.5 : 63.5%	-	-	-	3.5	20.2	15.7
3/1	New Bridge lane (NB) Right Left Ahead	U	N		2	14	-	72	1758	128	56.3%	-	-	-	1.6	81.0	2.9
5/1+5/2	Cromwell Road(EB) Ahead Right Left	U	ΚQ		2	149:14	-	985	1910:1717	1217+86	75.6 : 75.6%	-	-	-	5.6	20.5	24.0

Basic Results Summary

7/1	New Bridge Lane (SB) Left Ahead Right	U	м		2	14	-	30	1747	127	23.6%	-	-	-	0.6	66.8	1.1
Ped Link: P1	New Bridge Lane Crossing	-	0		2	10	-	0	-	0	0.0%	-	-	-	-	-	-
		C1 C1		2 PRC fo	r Signalled r Signalled C Over All La	Lanes (%):	30.9 19.1 19.1	Total	Delay for Signa Delay for Signa Total Delay Ov	alled Lanes (p	cuHr):	6.72 11.30 18.15	Cycle Time (s): 2 Cycle Time (s): 2		-		

Basic Results Summary Scenario 4: ' 2027 Baseline Increased by 20% PM Peak' (FG4: '2027 Base+Dev increased by 20%- PM Peak', Plan 1: 'Network Control Plan 1') Network Layout Diagram



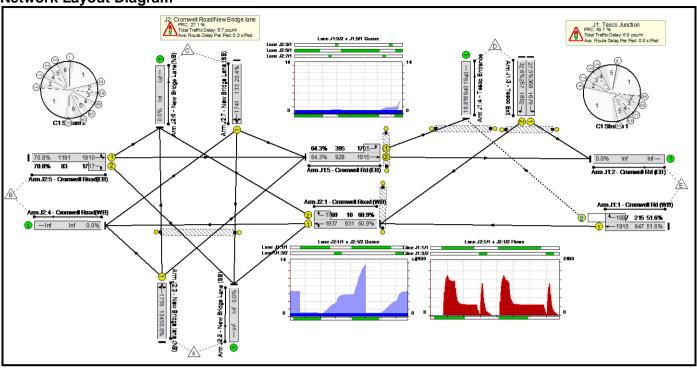
Basic Results Summary Network Results

ltem	Lane Description	Lane Type	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Mean Max Queue (pcu)
Network: Junction Upgrading	-	-	-		-	-	-	-	-	-	87.8%	0	53	1	24.3	-	-
J1: Tesco Junction	-	-	-		-	-	-	-	-	-	70.9%	0	53	1	7.5	-	-
1/1+1/2	Cromwell Rd (WB) Right Ahead	U+O	В	С	2	137	8	858	1915:1687	1134+76	70.9 : 70.9%	0	53	1	4.4	18.4	19.8
3/1	Tesco Exit Left	U	Е	D	2	44	16	58	1679	351	16.5%	-	-	-	0.7	42.1	1.7
3/2	Tesco Exit Right	U	Е		2	28	-	56	1802	246	22.8%	-	-	-	0.8	52.1	1.8
4/1	Tesco Entrance	U	-		-	-	-	321	1940	1940	16.5%	-	-	-	0.1	1.1	0.1
5/2+5/1	Cromwell Rd (EB) Ahead Left	U	A	F	2	152:162	10	895	1915:1705	945+402	66.5 : 66.5%	-	-	-	1.5	6.0	7.6
Ped Link: P1	Tesco Entrance	-	J		2	8	-	0	-	0	0.0%	-	-	-	-	-	-
Ped Link: P2	Tesco Exit	-	I		2	152	-	0	-	0	0.0%	-	-	-	-	-	-
Ped Link: P3	Cromwell Road EB	-	G		2	30	-	0	-	0	0.0%	-	-	-	-	-	-
Ped Link: P4	Cromwell Road NB	-	Н		2	15	-	0	-	0	0.0%	-	-	-	-	-	-
J2: Cromwell Road/New Bridge lane	-	-	-		-	-	-	-	-	-	87.8%	0	0	0	16.9	-	-
1/1+1/2	Cromwell Road (WB) Left Ahead Right	U	LP		2:1	109:7	-	860	1937:1769	975+10	87.2 : 87.2%	-	-	-	6.7	28.2	26.9
3/1	New Bridge lane (NB) Right Left Ahead	U	N		2	14	-	115	1801	131	87.8%	-	-	-	4.3	135.5	6.6
5/1+5/2	Cromwell Road(EB) Ahead Right Left	U	КQ		2	149:14	-	892	1905:1717	1242+58	68.6 : 68.6%	-	-	-	4.2	17.1	19.5

Basic Results Summary

7/1	New Bridge Lane (SB) Left Ahead Right	U	М		2	14	-	70	1754	128	54.9%	-	-	-	1.6	80.6	2.9
Ped Link: P1	New Bridge Lane Crossing	-	0		2	10	-	0	-	0	0.0%	-	-	-	-	-	-
		C1 C1		n: 2 PRC fo	or Signalled or Signalled C Over All La	Lanes (%):	26.9 2.5 2.5	Total	l Delay for Signa I Delay for Signa Total Delay Ove	illed Lanes (po	cuHr):	7.38 16.85 24.33	Cycle Time (s): 2 Cycle Time (s): 2		-	-	

Basic Results Summary Scenario 5: '2027 Baseline increased by 10% AM Peak' (FG5: '2027 Base+Dev increased by 10%- AM Peak', Plan 1: 'Network Control Plan 1') Network Layout Diagram



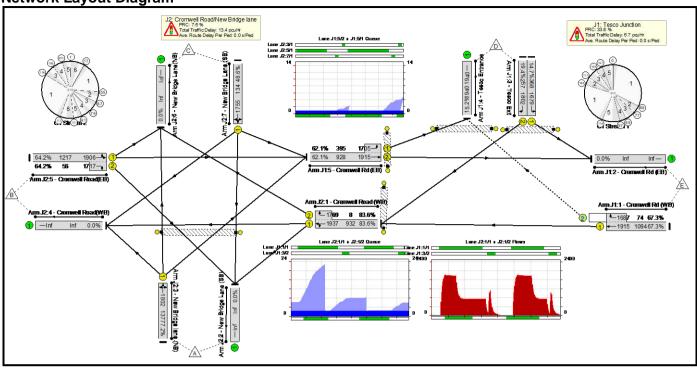
Basic Results Summary Network Results

ltem	Lane Description	Lane Type	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Mean Max Queue (pcu)
Network: Junction Upgrading	-	-	-		-	-	-	-	-	-	70.8%	0	108	3	15.7	-	-
J1: Tesco Junction	-	-	-		-	-	-	-	-	-	64.3%	0	108	3	6.0	-	-
1/1+1/2	Cromwell Rd (WB) Right Ahead	U+O	В	С	2	125	8	600	1915:1687	947+215	51.6 : 51.6%	0	108	3	2.4	14.5	10.6
3/1	Tesco Exit Left	U	Е	D	2	44	16	101	1679	368	27.5%	-	-	-	1.1	40.9	2.7
3/2	Tesco Exit Right	U	Е		2	28	-	84	1802	257	32.6%	-	-	-	1.2	50.9	2.5
4/1	Tesco Entrance	U	-		-	-	-	365	1940	1940	18.8%	-	-	-	0.1	1.1	1.2
5/2+5/1	Cromwell Rd (EB) Ahead Left	U	A	F	2	142:152	10	850	1915:1705	928+395	64.3 : 64.3%	-	-	-	1.1	4.8	3.7
Ped Link: P1	Tesco Entrance	-	J		2	8	-	0	-	0	0.0%	-	-	-	-	-	-
Ped Link: P2	Tesco Exit	-	I		2	142	-	0	-	0	0.0%	-	-	-	-	-	-
Ped Link: P3	Cromwell Road EB	-	G		2	30	-	0	-	0	0.0%	-	-	-	-	-	-
Ped Link: P4	Cromwell Road NB	-	н		2	17	-	0	-	0	0.0%	-	-	-	-	-	-
J2: Cromwell Road/New Bridge lane	-	-	-		-	-	-	-	-	-	70.8%	0	0	0	9.7	-	-
1/1+1/2	Cromwell Road (WB) Left Ahead Right	U	LP		2:1	99:7	-	573	1937:1769	931+10	60.9 : 60.9%	-	-	-	3.2	20.0	13.5
3/1	New Bridge lane (NB) Right Left Ahead	U	N		2	14	-	67	1759	134	50.0%	-	-	-	1.4	73.1	2.4
5/1+5/2	Cromwell Road(EB) Ahead Right Left	U	KQ		2	139:14	-	903	1910:1717	1191+83	70.8 : 70.8%	-	-	-	4.7	18.8	20.1

Basic Results Summary

7/1	New Bridge Lane (SB) Left Ahead Right	U	М		2	14	-	27	1741	133	20.4%	-	-	-	0.5	62.6	0.9
Ped Link: P1	New Bridge Lane Crossing	-	0		2	10	-	0	-	0	0.0%	-	-	-	-	-	-
		C1 C1		n: 2 PRC fo	or Signalled or Signalled C Over All La	Lanes (%):	40.1 27.1 27.1	Total	Delay for Signa Delay for Signa Total Delay Ove	Illed Lanes (po	cuHr):	5.88 9.73 15.73	Cycle Time (s): 2 Cycle Time (s): 2		-		

Basic Results Summary Scenario 6: '2027 Baseline increased by 10% PM Peak' (FG6: '2027 Base+Dev increased by 10%- PM Peak', Plan 1: 'Network Control Plan 1') Network Layout Diagram



Basic Results Summary Network Results

ltem	Lane Description	Lane Type	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Mean Max Queue (pcu)
Network: Junction Upgrading	-	-	-		-	-	-	-	-	-	83.6%	0	49	1	20.1	-	-
J1: Tesco Junction	-	-	-		-	-	-	-	-	-	67.3%	0	49	1	6.7	-	-
1/1+1/2	Cromwell Rd (WB) Right Ahead	U+O	В	С	2	126	8	786	1915:1687	1094+74	67.3 : 67.3%	0	49	1	4.0	18.1	17.2
3/1	Tesco Exit Left	U	Е	D	2	44	16	54	1679	368	14.7%	-	-	-	0.6	39.0	1.4
3/2	Tesco Exit Right	U	Е		2	28	-	50	1802	257	19.4%	-	-	-	0.7	48.5	1.5
4/1	Tesco Entrance	U	-		-	-	-	295	1940	1940	15.2%	-	-	-	0.1	1.1	0.1
5/2+5/1	Cromwell Rd (EB) Ahead Left	U	A	F	2	142:152	10	821	1915:1705	928+395	62.1 : 62.1%	-	-	-	1.4	6.2	4.8
Ped Link: P1	Tesco Entrance	-	J		2	8	-	0	-	0	0.0%	-	-	-	-	-	-
Ped Link: P2	Tesco Exit	-	I		2	142	-	0	-	0	0.0%	-	-	-	-	-	-
Ped Link: P3	Cromwell Road EB	-	G		2	30	-	0	-	0	0.0%	-	-	-	-	-	-
Ped Link: P4	Cromwell Road NB	-	Н		2	16	-	0	-	0	0.0%	-	-	-	-	-	-
J2: Cromwell Road/New Bridge lane	-	-	-		-	-	-	-	-	-	83.6%	0	0	0	13.4	-	-
1/1+1/2	Cromwell Road (WB) Left Ahead Right	U	LP		2:1	99:7	-	786	1937:1769	932+8	83.6 : 83.6%	-	-	-	5.5	25.4	22.7
3/1	New Bridge lane (NB) Right Left Ahead	U	Ν		2	14	-	106	1802	137	77.2%	-	-	-	2.9	100.1	4.7
5/1+5/2	Cromwell Road(EB) Ahead Right Left	U	КQ		2	139:14	-	817	1906:1717	1217+56	64.2 : 64.2%	-	-	-	3.6	16.0	16.6

Basic Results Summary

7/1	New Bridge Lane (SB) Left Ahead Right	U	М		2	14	-	65	1755	134	48.6%	-	-	-	1.3	72.5	2.4
Ped Link: P1	New Bridge Lane Crossing	-	0		2	10	-	0	-	0	0.0%	-	-	-	-	-	-
		C1 C1		n: 2 PRC fo	or Signalled or Signalled C Over All La	Lanes (%):	33.8 7.6 7.6	Total	Delay for Signa Delay for Signa Total Delay Ove	Illed Lanes (p	cuHr):	6.62 13.42 20.13	Cycle Time (s): 2 Cycle Time (s): 2		-		

Appendix B Stage 1 RSA Brief



Medworth Energy from Waste Combined Heat and Power Facility DCO

Stage 1 - RSA brief

1. Project Summary

Date:	04/05/23
Document reference:	41310-WOOD-XX-XX-RP-OT-0003_S0_P01
Prepared by:	WSP
On behalf of:	Medworth CHP Limited
AUTHORISATION SHEET	·
Project:	Medworth Energy from Waste Combined Heat and Power Facility DCO
Report title:	RSA brief- Stage 1
PREPARED BY:	
Name:	Varsha Suresh
Signed:	
Organisation:	WSP
Date:	04/05/23
I APPROVE THE RSA BRIEF AND INSTRU OF THE OVERSEEING ORGANISATION:	JCT THE RSA TO TAKE PLACE ON BEHALF
Name:	Nigel Eggar
Signed:	
Organisation:	Cambridgeshire County Council
Date:	10/05/23

1.1 General Details

Highway scheme name and	d road	Medworth Energy from Waste Combined Heat and Power Facility DCO						
Type of scheme:	Upgr juncti	from priority ju	nction to signa	lised				
RSA stage tick as appropri	1- 🗸	2	3	4				
			Interim					
Overseeing Organisation d	letails		Design orga	nisation detai	ls			
Cambridgeshire County Counci	I		WSP (UK)					
West Highway Division Stanton Way Ermine Street Huntingdon PE29 6PY		Amber Court William Armstrong Dr, Newcastle upon Tyne NE4 7YA						
			Maintaining	agent contact	t details			
(Required for stage 3 RSAs	5)		N/A					
RSA team membership			·					
Insert details of the approved RSA team and any specialist advisors and observers where appropriate.								
Terms of reference								

2. Analysis

Scheme description/objective

General

Scheme Description

During the Development Consent Order process for the Medworth Energy from Waste (EfW) and Combined Heat and Power (CHP) facility, Cambridgeshire County Council has requested that the B198 Cromwell Road/New Bridge Lane junction – located within Wisbech – is upgraded to a four arm signalised junction to ensure that additional HGV traffic which is expected to be generated by the development is sufficiently accommodated within the B198/New Bridge Lane junction and protected from conflicting traffic movements.

The B198/New Bridge Lane junction is located in the south-west of the town of Wisbech. South of the junction the B198 routes to the A47, north of the junction the B198 routes into the commercial centre of Wisbech town. The New Bridge Lane west arm provides access to a small number of residential properties and access for deliveries into the Tesco supermarket. The New Bridge Lane east arm currently provides access to residential and industrial land uses and will be upgraded as part of the development to provide access into the proposed site.

Currently the B198 Cromwell Road/New Bridge Lane junction is a four-arm priority junction where the New Bridge Lane East and West arms are the minor arms of the junction which give way to the major arm the B198 Cromwell Road. Right turn bays are provided mid junction to facilitate movement from B198 into the New Bridge Lane east and west arms.

The proposed scheme will upgrade the junction into a four arm signalised junction where all necessary infrastructure and works will be undertaken to accommodate traffic signal infrastructure and anticipated movements. This will include the following:

- Provision of stop lines and primary and secondary traffic signal columns on all arms of the junction;
- Realignment of the kerbs throughout the junction to accommodate additional lanes and the swept path of anticipated HGV movements;
- Provision of islands within the junction to accommodate traffic signal columns and protect movements;
- Provision of signalised right turns with right turn only lanes and right turn road markings mid junction;
- Provision of a signalised pedestrian crossing over New Bridge Lane east arm; and
- Provision of all necessary road markings to ensure clear guidance to vehicles.

The proposed New Bridge Lane traffic signal junction is proposed to be linked to the existing Tesco traffic signal junction.

The Scheme also proposes alterations along New Bridge Lane to widen it to 6.8m wide to accommodate HGV movements generated by the proposed Medworth Site.

Included in the **DCO application** is a proposal to reopen New Bridge Lane across the disused March to Wisbech Railway, with the agreement of Network Rail, and that it is this reopening which enables the Applicant to take access from Cromwell Road into the proposed

site access. Also that New Bridge Lane will be closed east of the proposed site access and that as such it will not operate as a through route.

Design standards applied to the scheme design

- 1. Standard Specification for Traffic Systems and Signals Cambridgeshire County Council.
- 2. Traffic Signs Manual -Chapter 6.
- 3. Traffic Signs Manual Chapter 5.

Design speeds

70kph/40mph

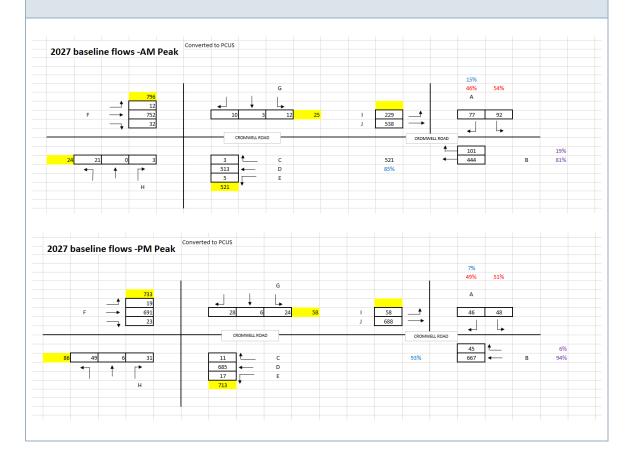
Speed limits – Existing speed limit of the Cromwell Road is 40mph.

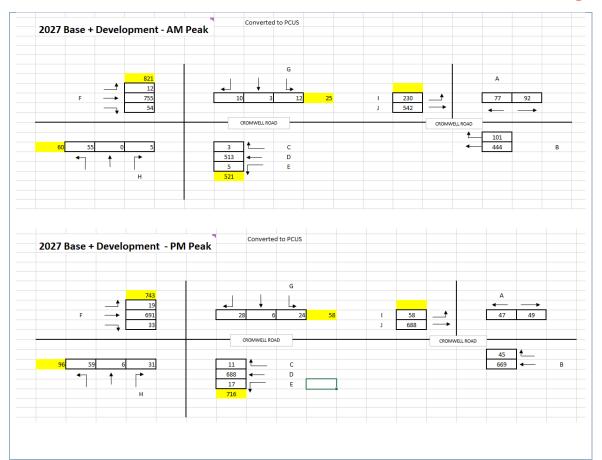
No speed data is available

Existing traffic flows/queues

N/A

Forecast traffic flows





Pedestrians, cyclists, and equestrians desire lines

There is an existing footway along the eastern side of Cromwell Road which continues to New Bridge Lane until it stops approximately at the junction with Salters Way. There is also an existing footway along the northern side of New Bridge Lane connects New Bridge Lane with the existing signalised crossings at the Tesco traffic signal junction.

There is no existing footway on the western side of Cromwell Road .

The current speed limit of New Bridge Lane is proposed to be reduced to 30mph. New Bridge Lane is subject to a national speed limit currently. The proposal for New Bridge Lane also includes new footway along the northern side of New Bridge Lane to provide a continuous walking route between the Site and the proposed new pedestrian crossing at the New Bridge Lane junction. Dropped kerbs and tactile paving will be provided for the proposed new uncontrolled crossing on Salters Way, the site access and the controlled crossing on New Bridge Lane approach.

Environmental constraints

N/A

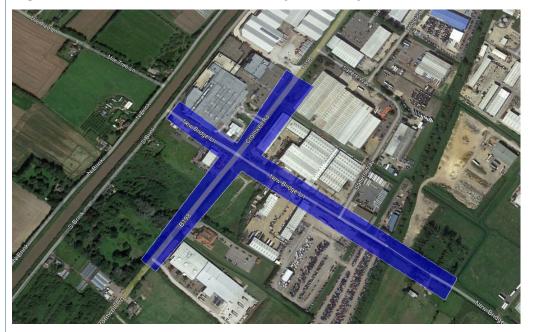
3. Collision Data Analysis

Collision data analysis

Accident Data for last 4 years

- 3.1.1 Accident data has been extracted from the Cambridgeshire Insight Open Data website for the last four years (2019-2023).
- 3.1.2 The area of the study is indicated by the blue hatching in Figure 3.1 which includes a section of New Bridge Lane and the B198 Cromwell Road.

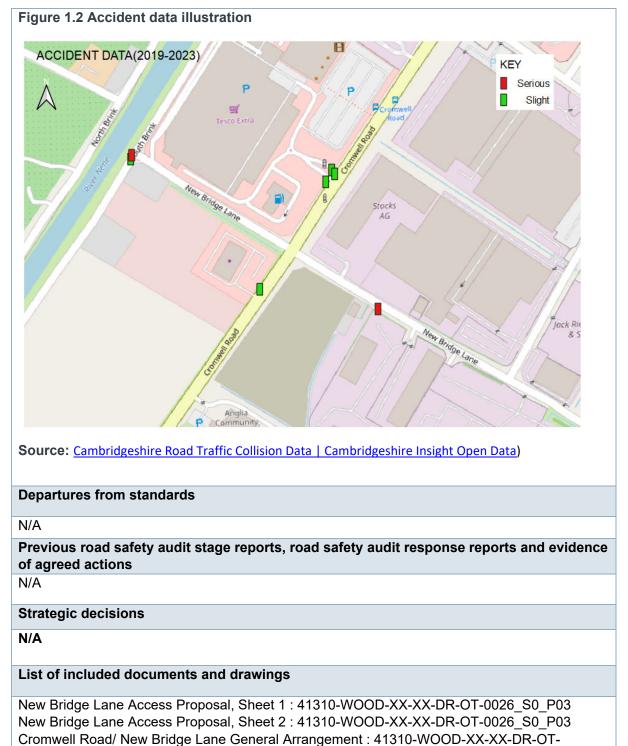
Figure 3.1 Illustration of accident study boundary



Source: Google Maps

- 3.1.3 Accident data obtained shows that there were both slight and serious accidents within the search area. No fatal accidents were recorded. The accident data is summarised below and shown in Figure 3.2.
- 3.1.4 Over the four-year period there were 7 accidents recorded. Of the 7 accidents that are recorded within in the assessment area, five were of slight severity and the remaining two were serious.

vsp



0029 S0 P01

Cromwell Road/ New Bridge Lane Swept Path : 41310-WOOD-XX-XX-DR-OT-0030_S0_P01 New Supermarket Access Cromwell Road Proposed Traffic Signals: AT13012-01 Rev B

3.2 Checklist of Information Provided

Tick all that are provided			
Site location plan	\checkmark	Scale layout plans	\checkmark
Departures and relaxations from standards		Construction/ typical details	\checkmark
Previous RSA reports		Previous RSA response reports and evidence of agreed actions	
Collision data and collision data analysis	\checkmark	Road traffic collision plot	\checkmark
Traffic signal staging (Tesco junction)	\checkmark	Traffic counts	\checkmark
Speed surveys		Pedestrians, cyclist and horse-riding desire lines and volumes	
Walking, cycling and horse-riding assessment and reviews		Items outside the scope of the RSA/ strategic decisions	
Other factors that may impact on road safety	~	Design speeds/ speed limits	√
Design standards used	\checkmark	Adjacent land uses	\checkmark



Varsha Suresh Adam Guy

Approved by



Grace Smith

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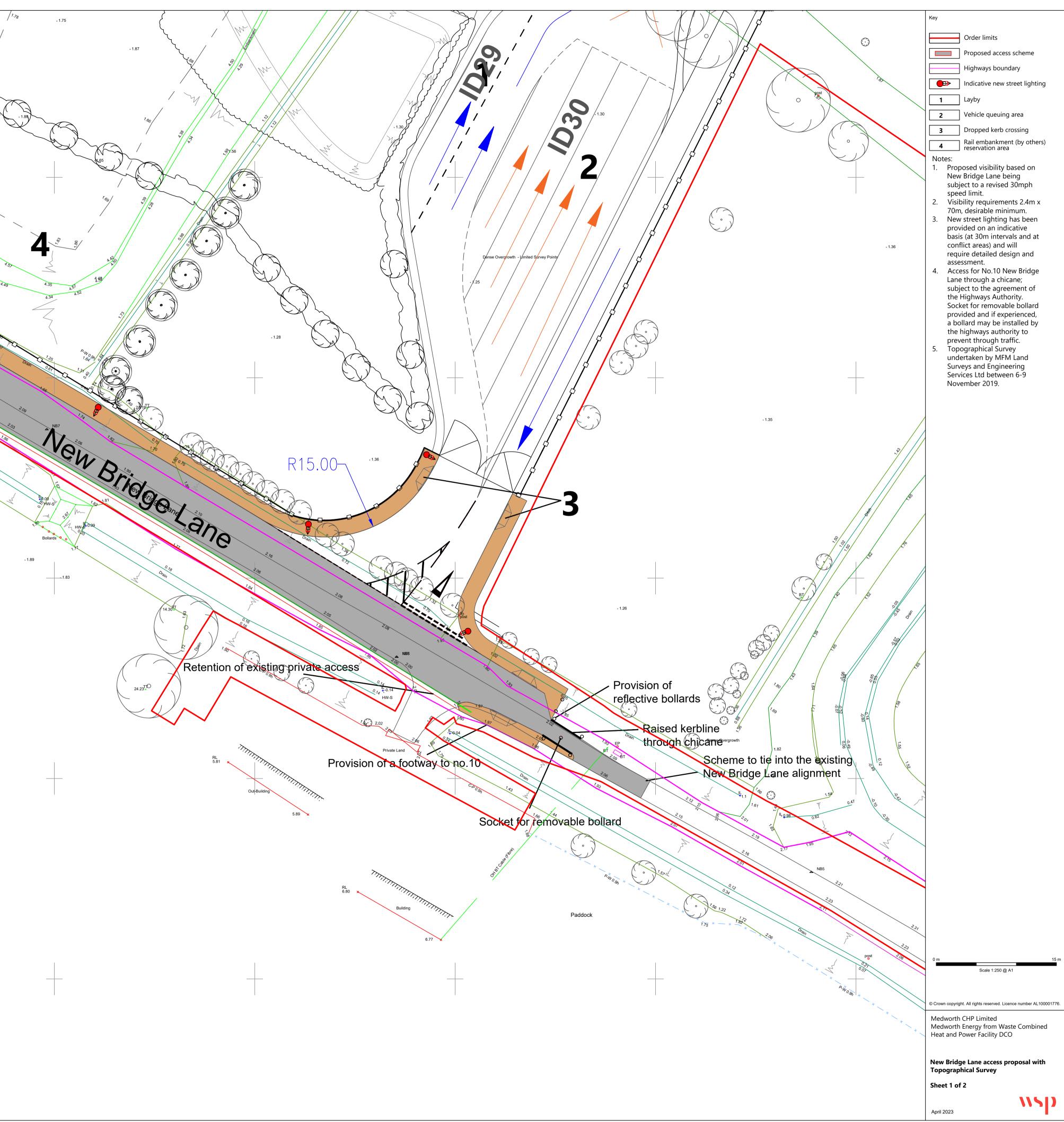
Management systems

This document has been produced by WSP Environment & Infrastructure Solutions UK Limited in full compliance with our management systems, which have been certified to ISO 9001, ISO 14001 and ISO 45001 by Lloyd's Register.

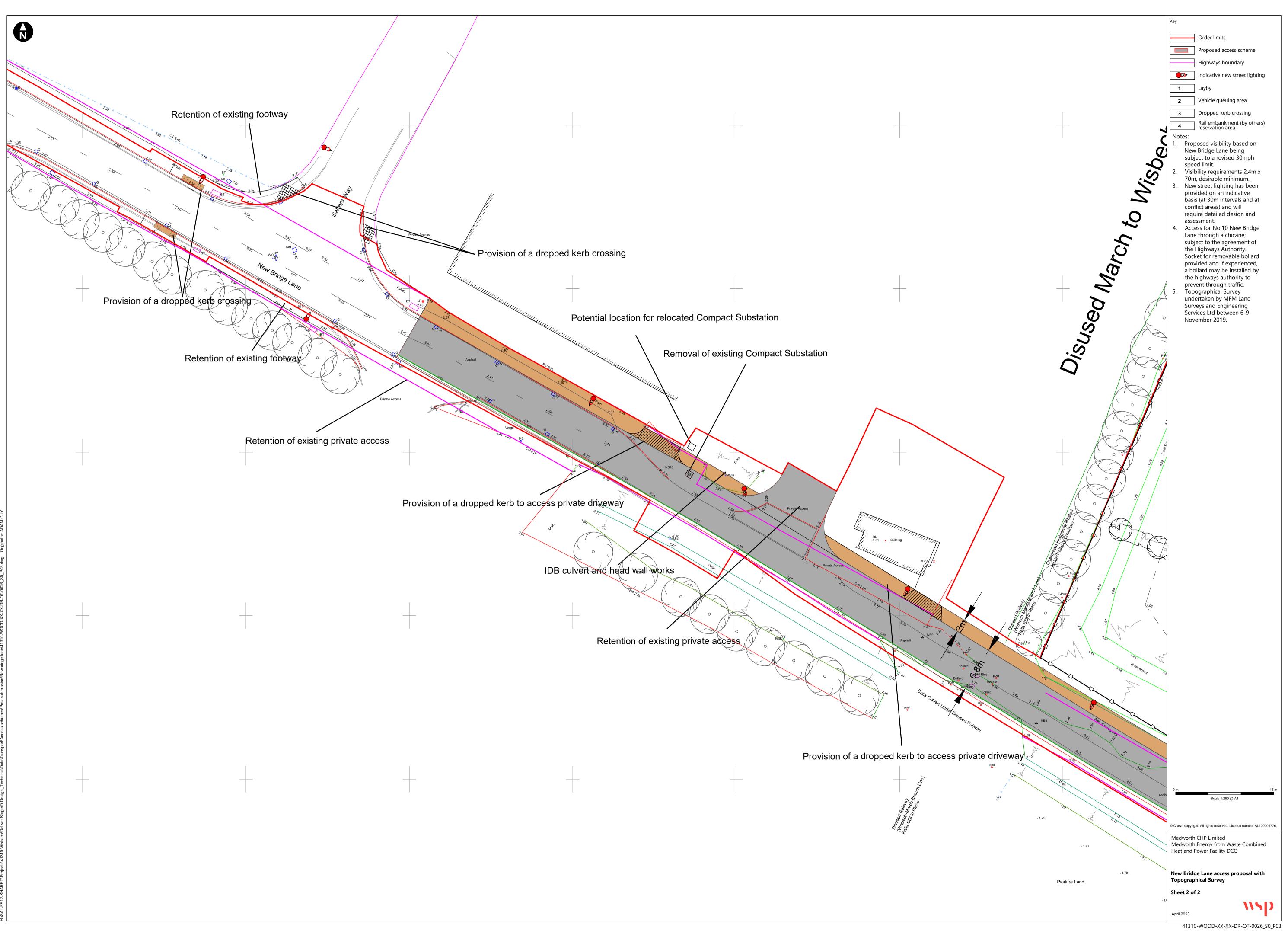
Document revisions

No.	Details	Date
P01	RSA Stage 1 brief	09/05/23

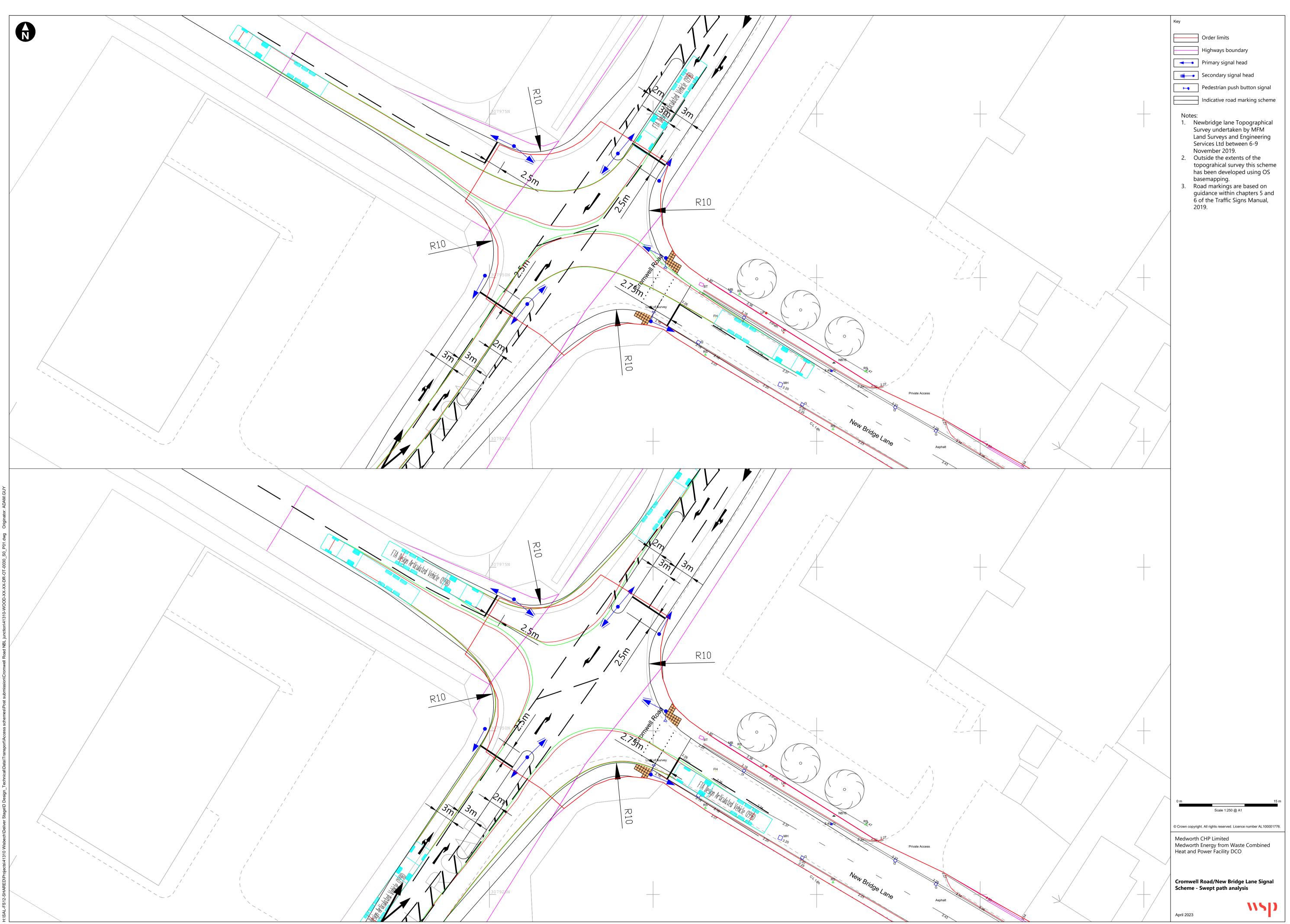
1.78 ÷ 1.75 RL 9.31 x Building NB9 Provision of a dropped kerb to access private driveway ∗ 1.75 ÷1.81 ∗ 1.78 Pasture Land ÷ 1.80



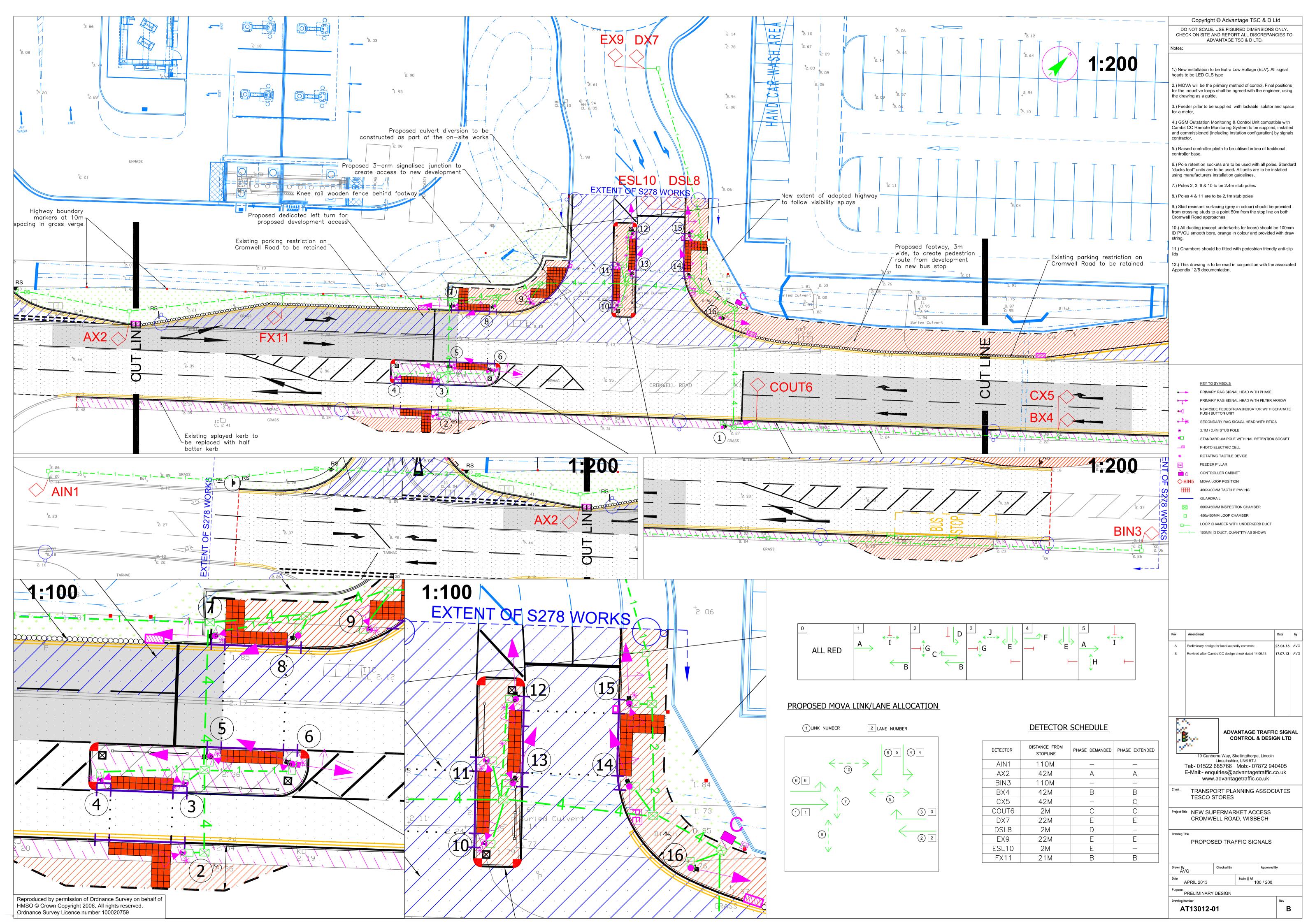
41310-WOOD-XX-XX-DR-OT-0026_S0_P03







41310-WOOD-XX-XX-DR-OT-0030_S0_P01



Appendix C Stage 1 Road Safety Audit



Medworth CHP Limited

MEDWORTH ENERGY FROM WASTE COMBINED HEAT AND POWER FACILITY DCO, NEW BRIDGE LANE, WISBECH

Stage 1 Road Safety Audit



Medworth CHP Limited

MEDWORTH ENERGY FROM WASTE COMBINED HEAT AND POWER FACILITY DCO, NEW BRIDGE LANE, WISBECH

Stage 1 Road Safety Audit

CONFIDENTIAL

PROJECT NO. 62280400 OUR REF. NO. 62280400_RSA1_001

DATE: MAY 2023

WSP 62-64 Hills Road Cambridge CB2 1LA

Quality control

Issue/revision	First issue	Revision 1	Revision 2	Revision 3
Remarks	Issue to Client			
Date	May 2023			
Prepared by	Chris Hodges			
Signature				
Checked by	Maamle Okutu			
Signature				
Authorised by	Maamle Okutu			
Signature				
Project number	62280400			
Report number	62280400_RSA1_001			
File reference	As above			

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Appendices

APPENDIX A

APPENDIX B



1. **PROJECT DETAILS**

Report title:	Medworth Energy, New Bridge Lane, Wisbech, Cambridge, Priority Junction Upgrade 62280400_RSA1_001
Date:	May 2023
Document reference and revision:	Stage 1 Road Safety Audit
Prepared by:	WSP
On Behalf of:	Cambridgeshire County Council

2. INTRODUCTION

- 2.1.1. This report results from a Stage 1 Road Safety Audit carried out on the New Bridge Lane / Cromwell Road, Cambridge, on behalf of Nigel Eggar, Audit Project Sponsor, Cambridgeshire County Council. The Road Safety Audit was carried out during May 2023.
- 2.1.2. The Road Safety Audit Team approved by Nigel Eggar, Audit Project Sponsor, was as follows:

Audit Team Leader: Maamle Okutu, BSc (Hons), MSc, CEng, MCIHT, MSoRSA

Audit Team Member Chris Hodges MCIHT

Maamle Okutu holds a Road Safety Certificate of Competence meeting the requirements of the European Directive 2008/96/EC and GG119 paragraph 3.9 and appendix G.

- 2.1.3. The audit took place in May 2023. The Road Safety Audit was undertaken in accordance with the Road Safety Audit brief provided by Grace Smith, WSP, on behalf of Nigel Eggar, Audit Project Sponsor, Cambridgeshire County Council and accepted by the Audit Team.
- 2.1.4. The Audit Team visited the site together on Friday 12th May between 12pm and 2pm. The weather was overcast with periods of rainfall. The road surface was wet during the site visit. The traffic flow was moderate. A number of pedestrians and cyclists observed during the site visit.
- 2.1.5. The Road Safety Audit also comprised of an examination of the documents and drawings supplied to the Road Safety Audit Team, referenced in Appendix A of this report.
- 2.1.6. All comments and recommendations are referenced to the design drawings and the locations have been indicated on the plan located in Appendix B.
- 2.1.7. The terms of reference of the Road Safety Audit are as described in the Design Manual for Roads and Bridges (DMRB) Standard GG 119 Road Safety Audit, Revision 2, with following exception.
 - The Audit Report has been submitted to the design organisation and not directly to the Overseeing Organisation.
- 2.1.8. The Road Safety Audit Team has examined and reported only on the road safety implications of the scheme as presented and has not examined or verified the compliance of the designs to any other criteria.
- 2.1.9. No Departures from Standards relating to the scheme were provided to the Audit Team.
- 2.1.10. Audit administration

This Audit Report has been submitted to the Cambridgeshire County Council by the design organisation to allow an RSA response report to be produced. This should be completed within 1 month of the issue of the RSA report and the Overseeing Organisation should then provide a copy to the RSA team for information.

The Overseeing Organisation is responsible for identifying any misinterpretations of the highway scheme proposals or if any problem or recommendation is not accepted.



Safety issues identified during the audit and site inspection which the Terms of Reference exclude from this report, but which the audit team wishes to draw to the attention of the Overseeing Organisation, will be set out in a separate letter. Maintenance issues should be reported directly to the maintaining agent.

2.2. Purpose of the Scheme (taken directly from brief)

This Stage 1 Road Safety Audit covers the proposed signalised junction at the New Bridge Road / Cromwell Road junction and proposed alterations on New Bridge Road.

During the Development Consent Order process for the Medworth Energy from Waste (EfW) and Combined Heat and Power (CHP) facility, Cambridgeshire County Council has requested that the B198 Cromwell Road/New Bridge Lane junction – located within Wisbech – is upgraded to a fourarm signalised junction to ensure that additional HGV traffic which is expected to be generated by the development is sufficiently accommodated within the B198/New Bridge Lane junction and protected from conflicting traffic movements.

The B198/New Bridge Lane junction is located in the south-west of the town of Wisbech. South of the junction the B198 routes to the A47, north of the junction the B198 routes into the commercial centre of Wisbech town. The New Bridge Lane west arm provides access to a small number of residential properties and access for deliveries into the Tesco supermarket. The New Bridge Lane east arm currently provides access to residential and industrial land uses and will be upgraded as part of the development to provide access into the proposed site.

Currently the B198 Cromwell Road/New Bridge Lane junction is a four-arm priority junction where the New Bridge Lane East and West arms are the minor arms of the junction which give way to the major arm the B198 Cromwell Road. Right turn bays are provided mid junction to facilitate movement from B198 into the New Bridge Lane east and west arms.

The proposed scheme will upgrade the junction into a four-arm signalised junction where all necessary infrastructure and works will be undertaken to accommodate traffic signal infrastructure and anticipated movements. This will include the following:

- Provision of stop lines and primary and secondary traffic signal columns on all arms of the junction.
- Realignment of the kerbs throughout the junction to accommodate additional lanes and the swept path of anticipated HGV movements.
- Provision of islands within the junction to accommodate traffic signal columns and protect movements.
- Provision of signalised right turns with right turn only lanes and right turn road markings mid junction.
- Provision of a signalised pedestrian crossing over New Bridge Lane east arm.
- Provision of all necessary road markings to ensure clear guidance to vehicles.

The proposed New Bridge Lane traffic signal junction is proposed to be linked to the existing Tesco traffic signal junction.

The Scheme also proposes alterations along New Bridge Lane to widen it to 6.8m wide to accommodate HGV movements generated by the proposed Medworth Site. Included in the DCO application is a proposal to reopen New Bridge Lane across the disused March to Wisbech Railway, with the agreement of Network Rail, and that it is this reopening which enables the Applicant to take access from Cromwell Road into the proposed site access. New Bridge Lane will be closed (to vehicles) east of the proposed site access and that as such it will not operate as a through route.



3. PROBLEMS IDENTIFIED IN PREVIOUS ROAD SAFETY AUDITS

The audit team have not been made aware of any previous road safety audits.

4. PROBLEMS IDENTIFIED AT THIS STAGE 1 ROAD SAFETY AUDIT

4.1. PROBLEM 1

Location: New Bridge Lane (East)

Summary: Lack of edge protection leading to vehicles or pedestrian/cyclists falling down ditches/brooks resulting in injury.

Drawing 41310-WOOD-XX-XX-DR-OT-0026_S0_P03 shows the widening of the existing carriageway on both sides into the existing verges There are existing deep, steep sided ditches/brooks along New Bridge Lane at its eastern end resulting in a vertical drop. It is not clear from the drawings provided what proposals are in place for the existing ditches.





Figure 1 – Existing drainage features along New Bridge Lane (east)

Lack of a suitable edge protection may result in pedestrians falling into the ditch resulting in injury or vehicles entering the ditch increasing the risk of injury to vehicle occupants.

RECOMMENDATION:

It is recommended that a suitable level of edge protection is provided.



4.2. PROBLEM 2

Location: Waste Heat Power Facility Access - New Bridge Lane (East)

Summary: Poor access visibility leading to collisions between cyclists/pedestrians and vehicles.

The proposed access to the Waste Heat Power Facility is located off New Bridge Lane where there is matured vegetation. No visibility splay drawings have been provided so it is unclear what visibility will be achieved at the access. The carriageway to the east of the access is restricted to non-motorised users use.

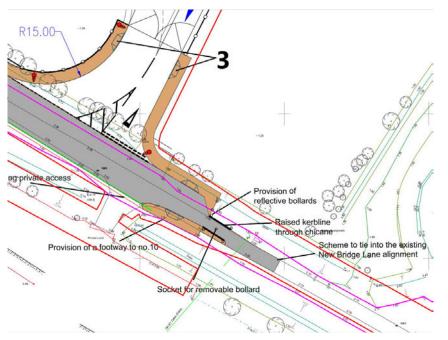


Figure 2 - Extract from drawing 41310-WOOD-XX-XX-DR-OT-0026_S0_P03

If adequate visibility is not provided from the access, drivers may fail to see pedestrians or cyclists approaching the access leading to collisions involving vehicles and pedestrians/cyclists.

RECOMMENDATION:

It is recommended adequate visibility is provided to and from the access.

4.3. PROBLEM 3

Location: Waste Heat Power Facility Access - New Bridge Lane (East)

Summary: Poor access visibility leading to collisions between vehicles and pedestrians

There is an inset uncontrolled crossing located near the gate on the proposed access into the Waste Heat Power Facility. Drawing 41310-WOOD-XX-XX-DR-OT-0026_S0_P03 provided shows a fence behind the footway to the west of the access, as well as a gate, and internal fence. It is unclear from the drawings what the boundary treatment would be.

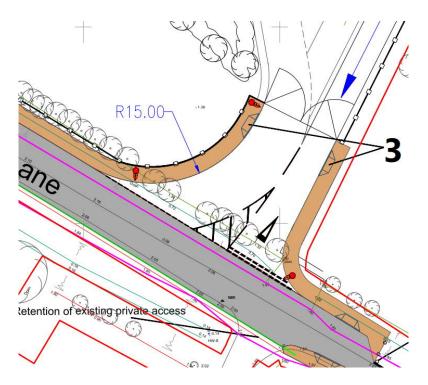


Figure 3 - Extract from drawing 41310-WOOD-XX-XX-DR-OT-0026_S0_P03

Pedestrians crossing at this location may have reduced visibility of vehicles approaching from New Bridge Lane or exiting the Waste Heat Power Facility due to the boundary treatment and drivers may not see pedestrians' step into the carriageway to cross leading to collisions between vehicles and pedestrians.

Pedestrians may also choose to cross at the mouth of the access due to the proposed crossing being away from their desire line. Drivers may not anticipate pedestrians crossing at this location increasing the risk of collisions between vehicles and pedestrians.

RECOMMENDATION:

It is recommended that the crossing point is relocated, or adequate visibility provided to and from the crossing points.

4.4. PROBLEM 4

Location: New Bridge Lane (East)

Summary: Lack of adequate drainage provision leading to ponding and loss of control incidents.

The existing carriageway on New Bridge Lane (East) drains via ditches on the eastern end and kerbs and gullies. Although it is noted that the design is preliminary at this stage, it is unclear how the carriageway is expected to drain.



Figure 4 - Existing layouts at eastern end of New Bridge Lane (east)

If adequate drainage is not provided, the carriageway may pond and there is a risk of loss of control incidents especially during intense periods of precipitation and/or freezing weather conditions.

RECOMMENDATION:

It is recommended that adequate drainage is provided.

4.5. PROBLEM 5

Location: Private Access junction - New Bridge Lane (East)

Summary: Poor visibility to and from access leading to T-bone collisions or shunts

There is an existing private access on the north side of New Bridge Lane at its eastern end which is to be retained. It is however unclear what the proposals are beyond the proposed footway and whether there will be adequate visibility to and from the access.



Figure 5 - View looking east on New Bridge Lane

If adequate visibility to and from the access is not provided, it could lead to vehicles turning onto New Bridge Lane at unsuitable gaps in traffic flow leading to T-bone collisions or shunts.

RECOMMENDATION:

It is recommended adequate visibility is provided to and from the access in line with the speed of the road.

4.6. PROBLEM 6

Location: New Bridge Lane (East) Sub-Station

Summary: Lack of maintenance access resulting in pedestrian/vehicular collisions.

The existing compact sub-station on New Bridge Lane (East) is to be relocated behind the proposed footway as part of the scheme proposals.



Figure 6 - Existing sub-station on New Bridge Lane

The existing sub-station is currently accessible from the public highway with maintenance vehicles able to park on a widened section of the existing carriageway. If a suitable access is not provided, maintenance vehicles may park on footways and block the paths of pedestrians forcing pedestrians to step into the carriageway at risk of collision with vehicles.

RECOMMENDATION:

It is recommended that a suitable maintenance access is provided to the sub-station.



4.7. PROBLEM 7

Location: Copart Private Access - New Bridge Lane (East)

Summary: Traffic sign obstructing visibility to and from access leading to T-bone collisions or shunts

There is an existing private access located on the south side of New Bridge Lane, immediately east of Salters Way which provides access to Copart car salvage auctions. There is an existing sign located in the verge to the east of the access. The position and size of the sign may restrict visibility to the right of the access.



Figure 7 - View looking northwest on New Bridge Lane

The restricted visibility may lead to vehicles exiting the access at unsuitable gaps in traffic flow leading to T-bone collisions or shunts.

RECOMMENDATION:

It is recommended that the sign is relocated outside the visibility splay at the access.



4.8. PROBLEM 8

Location: New Bridge Lane (East)

Summary: Lack of waiting restrictions could lead to side swipe between larger vehicles and vehicles parked on New Bridge Lane (East).

There is currently no parking restriction on New Bridge Lane (East). During the site visit, it was observed that vehicles parked on both sides of the carriageway and a high percentage of vehicles accessing New Bridge Lane East were HGVs. The scheme proposal will increase the number of HGVs accessing New Bridge Lane East.



Figure 8 - Parking on New Bridge Lane

Without parking restrictions, drivers may continue to park on both sides of New Bridge Lane and may make it difficult for larger vehicles to access New Bridge Lane leading to side swipe collisions.

RECOMMENDATION:

It is recommended that a Traffic Regulation Order (TRO) and waiting restrictions are implemented to restrict parking on New Bridge Lane (East).

4.9. PROBLEM 9

Location: Junction of New Bridge Lane with Cromwell Road

Summary: Existing traffic signs leading to driver confusion, sudden braking and shunts.

There are existing give ways signs at the junction of New Bridge Lane with Cromwell Road.



Figure 9 – View looking west on New Bridge Lane (East) at Cromwell Road junction.



With the introduction of the traffic signals at the junction, these signs will become redundant. If the existing signs are retained in their current location, it may confuse drivers as to whether to give way at the junction leading to driver hesitation, sudden braking and shunts.

RECOMMENDATION:

It is recommended that the existing give way signs at the junction are removed.

4.10. **PROBLEM 10**

Location: Junction of New Bridge Lane with Cromwell Road.

Summary: Existing traffic signs obscuring visibility to the traffic signals leading to shunts and T-bone collisions.

The scheme involves the signalisation of the junction of New Bridge Lane with Cromwell Road. There are existing speed limit and give ways signs at the junction. The location of the existing signs may obscure visibility to the proposed traffic signals. This could lead to drivers seeing signals late and braking suddenly resulting in shunts. Vehicles may also fail to stop at the signals resulting in T-bone collisions with vehicles travelling on Cromwell Road. (See also Problem 9)

RECOMMENDATION:

It is recommended that a review of the signs is undertaken and if required, signs are relocated to provide adequate visibility to the traffic signals.

4.11. **PROBLEM 11**

Location: New Bridge Lane / Cromwell Road junction

Summary: Signal staging leading to shunts and T-bone collisions.

The existing junction of New Bridge Lane with Cromwell Road is to be signalised The northbound and southbound approaches to the junction on Cromwell Road are two lane approaches with a right turning pocket.



Figure 10 - View looking north on Cromwell Road



No signal staging diagrams have been provided so it is unclear how the signals will operate. If the straight ahead and right turn manoeuvres on both approaches on Cromwell Road are run together, it could lead to a gap seeking right turn increasing the risk of T-bone collisions.

If there are separate phases for the right and straight-ahead manoeuvres on both approaches on Cromwell Road, this may lead to right turning traffic blocking the straight-ahead movements increasing the risk of shunts.

RECOMMENDATION:

It is recommended that the signal staging is reviewed to reduce the risk of shunts and T-bone collisions.

4.12. PROBLEM 12

Location: New Bridge Lane / Cromwell Road junction

Summary: Insufficient road width leading to side swipes, loss of control incidents or T-bone collisions

The lane widths provided at the proposed junctions are 3m wide. The swept path drawings provided for a 16.5m articulated vehicle at some locations show a vehicle overhang on the lane markings or traffic island. During the site visit, other types of larger vehicles were observed using the junction.

If adequate lane widths are not provided these could lead to side swipe collisions. Larger vehicles may also overrun the kerbs leading to loss of control incidents.

Where swept path drawings show an overhang on the traffic island, this may reduce the lateral clearance to signal poles. Insufficient lateral clearance could result in vehicles colliding with the traffic signal damaging or rotating the signal leading to drivers not seeing the traffic signal aspect and failing to stop at the junction resulting in T-bone collisions.

RECOMMENDATION:

It is recommended that vehicle tracking is undertaken for the largest vehicle anticipated to access the junction and if required, the kerb lines at the junction amended to accommodate the swept path of the largest vehicle.

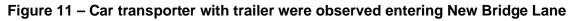
4.13. **PROBLEM 13**

Location: New Bridge Lane / Cromwell Road junction

Summary: Inadequate carriageway width leading to vehicle overrunning kerbs and loss of control incidents or collisions between vehicles and pedestrians.

Vehicle tracking have been provided for a 16.5m articulated vehicle. During the site visit, a number of larger vehicles including a transporter and an HGV recovering another HGV. It was also observed that an HGV turning left out of New Bridge Lane swung into the opposing carriageway to complete the turning manoeuvre.





If adequate carriageway width is not provided at the junction, this could lead to larger vehicles overrunning the kerb resulting in loss of control incidents or collisions between vehicles and pedestrians on the footway.

RECOMMENDATION:

It is recommended that vehicle tracking is undertaken for the largest vehicle anticipated to access New Bridge Lane and if required, the kerb lines at the junction amended to accommodate the swept path of the largest vehicle.

4.14. PROBLEM 14

Location: Cromwell Road, approach to New Bridge Lane, Northbound & southbound

Summary: Traffic signal 'see through effect' leading to red light running, shunts and T-bone collisions.

The existing junction of Tesco with Cromwell Road immediately north of the proposed junction is signalised. The signals at the Tesco junction are visible from a distance approximately 350m south of the junction of New Bridge Lane with Cromwell Road and may create a see-through effect.



Figure 12 – View looking north on Cromwell Road, south of the New Bridge Lane junction.

Drivers approaching the New Bridge Lane junction with Cromwell Road may still see the signals at the junction further ahead. This could result in vehicles failing to stop, or braking late, resulting in shunts on the approach or T-Bone Collisions with vehicles at the junction.

RECOMMENDATION:

It is recommended the phasing of the two signals are linked to have both signals running together or measures are implemented to remove the see-through effects.

End of Problems identified and Recommendations in this Stage 1 Audit



5. AUDIT TEAM STATEMENT

We certify that this audit has been carried ou identified in Para 2.17.	It in accordance with GG 119 with exceptions
ROAD SAFETY AUDIT TEAM LEADER	
Name:	Maamle Okutu
Signed:	
Position:	Associate Director.
Organisation:	WSP
Date:	18 th May 2023
ROAD SAFETY AUDIT TEAM MEMBER(s)	
Name:	Chris Hodges
Signed:	
Position:	Principal Highways Engineer
Date:	18 th May 2023

Appendix A

DOCUMENT LIST

Documents

• Road Safety Audit Brief - 41310-WOOD-XX-XX-RP-OT-0003_S0_P01

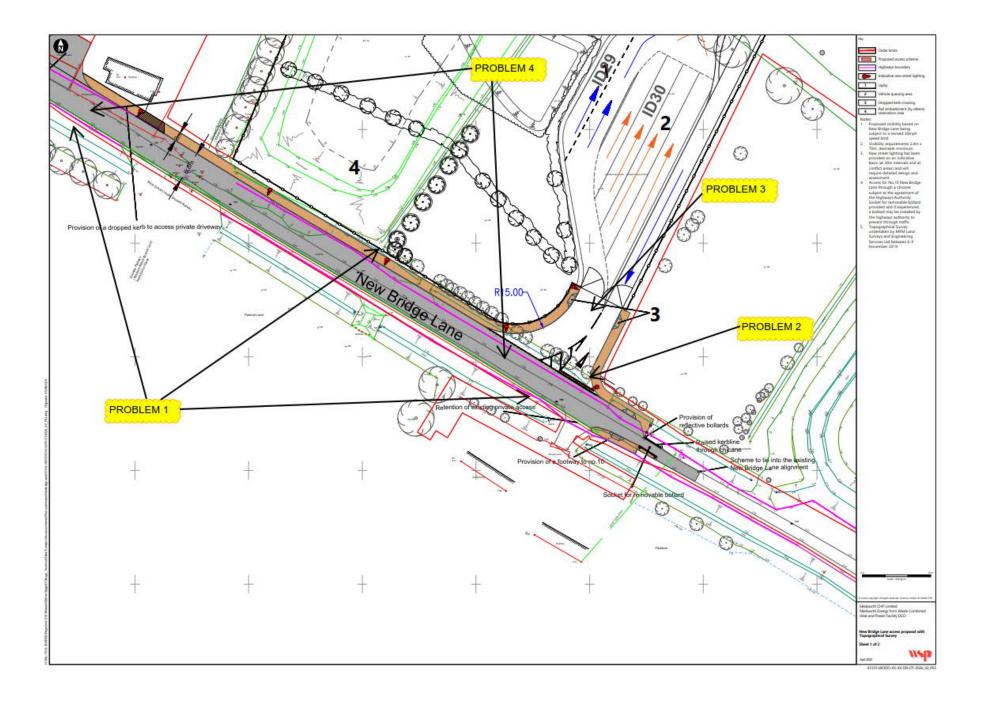
Drawings

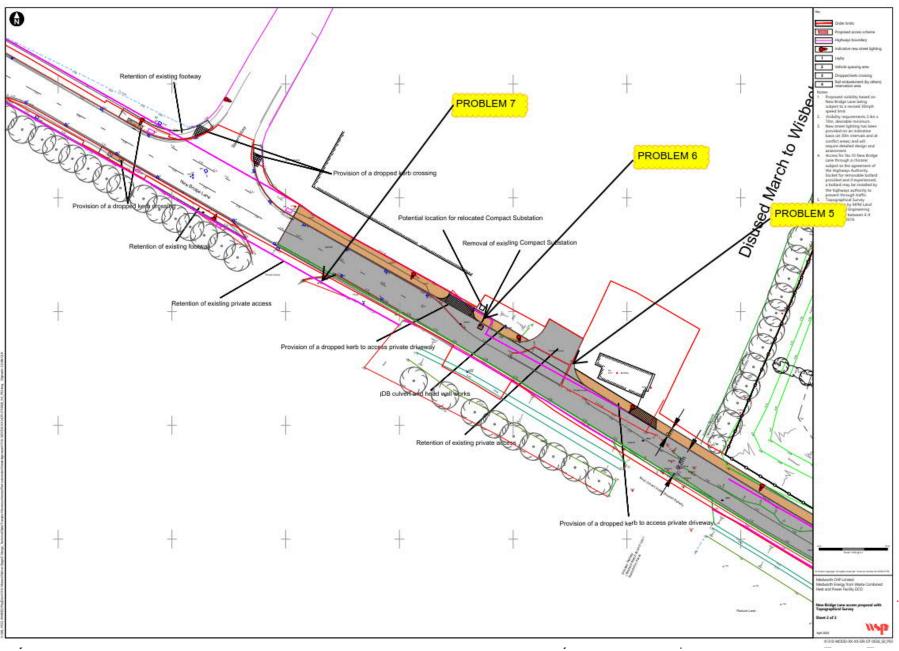
- New Bridge Lane access proposal with Topographical Survey Sheet 1 of 2 41310-WOOD-XX-XX-DR-OT-0026_S0_P03
- New Bridge Lane access proposal with Topographical Survey Sheet 2 of 2 41310-WOOD-XX-XX-DR-OT-0026_S0_P03
- Cromwell Road/New Bridge Lane Signal Scheme General arrangement 41310-WOOD-XX-XX-DR-OT-0029_S0_P01
- Cromwell Road/New Bridge Lane Signal Scheme Swept path analysis 41310-WOOD-XX-XX-DR-OT-0030_S0_P01
- New Supermarket Access Cromwell Road Wisbech AT13012-1 Rev B

Appendix B

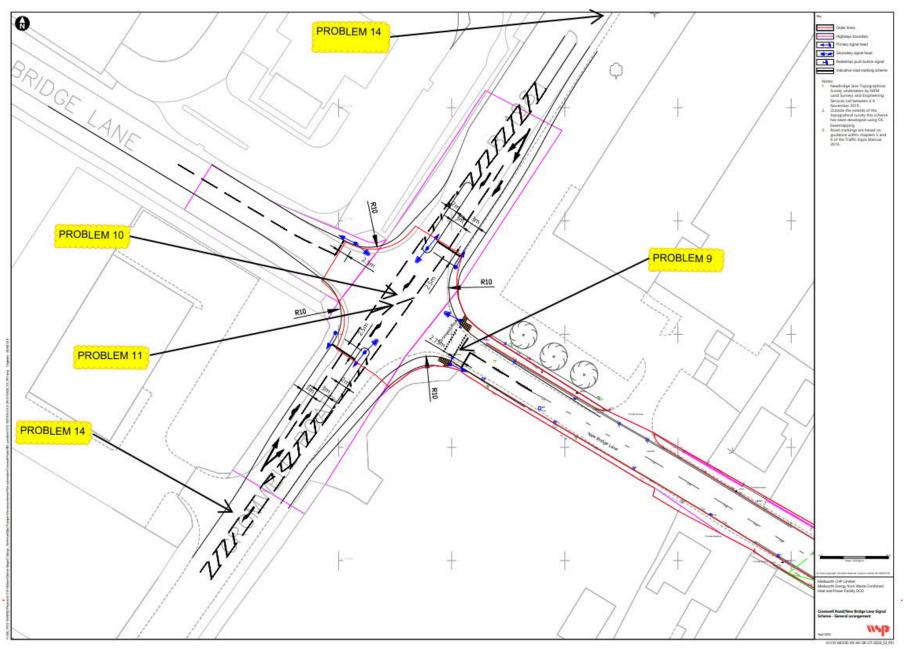
PROBLEM LOCATION PLANS

11

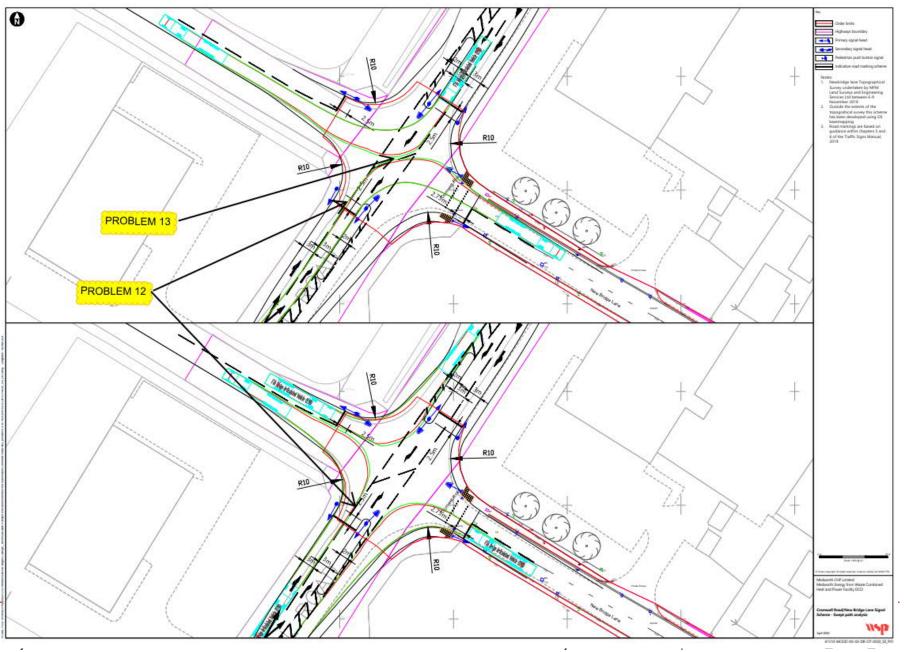




Medworth CHP Limited







Medworth CHP Limited



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Appendix D Stage 1 Road Safety Audit Response Report

Technical note: New Bridge Lane Road Safety Audit Stage 1 Response Report

1. Project Details

Table 1.1 Project Details

Report title	New Bridge Lane Road Safety Audit Stage 1 Response Report
Date:	23/05/2023
Document reference and revision:	41310-WOOD-XX-XX-TN-OT-0004_S0_P01
Prepared by:	WSP
On behalf of	MVV Environment Ltd

Table 1.2 Authorisation Sheet

Project:	Medworth Energy from Waste Combined Heat and Power Facility DCO
Report Title:	New Bridge Lane Road Safety Audit Stage 1 Response Report
Prepared by:	
Name:	Grace Smith
Position:	Associate Director
Signed:	
Date:	
Approved by:	
Name:	
Position:	
Signed:	
Organisation:	Cambridge County Council
Date:	

2. Introduction

On behalf of MVV Environment Ltd, WSP have produced preliminary designs for upgrading the New Bridge Lane/B198 Cromwell Road junction in Wisbech to a signalised junction and a scheme to upgrade New Bridge Lane between the B198 junction and the proposed access to the Medworth EfW site. The proposed upgrades to Newbridge Lane and the adjacent Newbridge Lane/B198 Cromwell Road junction would mean that safer and more efficient access for operational HGV traffic to the Medworth EfW site can be provided.

The signalisation scheme was requested by Cambridgeshire County Council (CCC) during the Development Consent Order process for the Medworth Energy from Waste (EfW) and Combined Heat and Power (CHP) facility. The proposed scheme would see the existing four arm priority junction be upgraded to a four-arm signalised junction which would be linked to the existing traffic signal of the adjacent Cromwell Road/Tesco access junction. A traffic model has been created using ©JCT LinSig software to ensure that additional HGV traffic which is expected to be generated by the development is sufficiently accommodated within the B198/New Bridge Lane junction and protected from conflicting traffic movements, and both junctions have sufficient highway capacity with the proposed signal operations.

This report has been produced in response to the Stage 1 Road Safety Audit (RSA) undertaken in May 2023. The Audit comprised of a site visit undertaken by the CCC approved RSA team where the proposed scheme drawings and documents provided in the Stage 1 RSA brief were assessed onsite. The Stage 1 RSA identified 14 problems with the current schemes, responses to each problem are set out within this report.

3. Key Personnel

Table 3.1Key Personnel

Overseeing Organisation:	Nigel Eggar
	Cambridgeshire County Council
RSA team:	Maamle Okutu, WSP 62-64 Hills Road Cambridge CB2 1LA
Design organisation:	Grace Smith WSP Amber Court William Armstrong Drive Newcastle upon Tyne NE4 7YQ

4. Road Safety Audit Decision Log

Table 4.1 Road Safety Audit Decision Log

RSA Problem	RSA Recommendation	Design Organisation Response	Overseeing Organisation Response	Agreed RSA Action
Problem 1 Location: New bridge Lane East (identified in RSA stage 1 appendix B) Summary: Lack of edge protection leading to vehicles or pedestrian/cyclists falling down ditches/brooks resulting in injury. Drawing 41310-WOOD-XX-XX-DR-OT- 0026_S0_P03 shows the widening of the existing carriageway on both sides into the existing verges There are existing deep, steep sided ditches/brooks along New Bridge Lane at its eastern end resulting in a vertical drop. It is not clear from the drawings provided what proposals are in place for the existing ditches.	It is recommended that a suitable level of edge protection is provided.	Comment accepted. As per drawing 41310- WOOD-XX-XX-DR-OT- 0033_S0_P01 and 41310-WOOD-XX-XX- DR-OT-0026_S0_P03 the southern edge of the carriageway is proposed to be protected by trief kerbs. Trief kerb arrangement will be agreed with the CCC as the LHA. No footway or cycle provision is proposed on the southern edge of the carriageway and as such no protection for pedestrians and cyclists is proposed.		
Problem 2 Location: Waste Heat Power Facility Access – New Bridge Lane (East)	It is recommended adequate visibility is provided to and from the access.	Visibility splay for the proposed site access is provided on drawing 41310-WOOD-XX-XX- DR-OT-0026_S0_P03. The splay provided is 2.4		



RSA Problem	RSA Recommendation	Design Organisation Response	Overseeing Organisation Response	Agreed RSA Action
Summary: Poor access visibility leading to collisions between cyclists/pedestrians and vehicles.		x 70m based on New Bridge Lane being subject to a revised 30mph speed limit and is		
The proposed access to the Waste Heat Power Facility is located off New Bridge Lane where there is matured vegetation. No visibility splay drawings have been provided so it is unclear what visibility will be achieved at the access. The carriageway to the east of the access is restricted to non-motorised users use.		in accordance with Table 2.10 of CD 109 and Section 3 of CD123.		
If adequate visibility is not provided from the access, drivers may fail to see pedestrians or cyclists approaching the access leading to collisions involving vehicles and pedestrians/cyclists.				
Problem 3	It is recommended that the	As per drawing 41310-		
Location: Waste Heat Power Facility Access – New Bridge Lane (East).	crossing point is relocated, or adequate visibility provided to and from the crossing points.	WOOD-XX-XX-DR-OT- 0026_S0_P03 the fence line on the western side of the access has been		
Summary: Poor access visibility leading to collisions between vehicles and pedestrians.		realigned to provide a suitable visibility splay for pedestrians crossing at		
There is an inset uncontrolled crossing located near the gate on the proposed access into the Waste Heat Power Facility. Drawing 41310-WOOD-XX-XX-DR-OT-0026_S0_P03 provided shows a fence behind the footway to		the site access. Visibility splay for pedestrians is 40m for a road with a 30mph speed limit based on CCC Highways		
the west of the access, as well as a gate, and internal fence. It is unclear from the drawings what the boundary treatment would be.		Development Management – General Principles for		

RSA Problem	RSA Recommendation	Design Organisation Response	Overseeing Organisation Response	Agreed RSA Action
Pedestrians crossing at this location may have reduced visibility of vehicles approaching from New Bridge Lane or exiting the Waste Heat Power Facility due to the boundary treatment and drivers may not see pedestrians' step into the carriageway to cross leading to collisions between vehicles and pedestrians. Pedestrians may also choose to cross at the mouth of the access due to the proposed crossing being away from their desire line. Drivers may not anticipate pedestrians crossing at this location increasing the risk of collisions between vehicles and pedestrians.		Development, Figure 5, and Section 2.2. The position of the dropped kerb crossings will be moved south, and a pedestrian refuge will be provided mid junction. The proposed location of the new crossing is shown on 41310-WOOD- XX-XX-DR-OT- 0026_S0_P03.		
 Problem 4 Location: New Bridge Lane (East) Summary: Lack of adequate drainage provision leading to ponding and loss of control incidents. The existing carriageway on New Bridge Lane (East) drains via ditches on the eastern end and kerbs and gullies. Although it is noted that the design is preliminary at this stage, it is unclear how the carriageway is expected to drain. If adequate drainage is not provided, the carriageway may pond and there is a risk of loss of control incidents especially during 	It is recommended that adequate drainage is provided.	Design provided within drawing 41310-WOOD- XX-XX-DR-OT- 0026_S0_P03 is to a preliminary detail only. An appropriate drainage scheme will be developed during the detailed design stage.		



RSA Problem	RSA Recommendation	Design Organisation Response	Overseeing Organisation Response	Agreed RSA Action
intense periods of precipitation and/or freezing weather conditions.				
Problem 5 Location: Private Access junction – New Bridge Lane (East) Summary: Poor visibility to and from access leading to T-bone collisions or shunts There is an existing private access on the north side of New Bridge Lane at its eastern end which is to be retained. It is however unclear what the proposals are beyond the proposed footway and whether there will be adequate visibility to and from the access. If adequate visibility to and from the access is not provided, it could lead to vehicles turning onto New Bridge Lane at unsuitable gaps in traffic flow leading to T-bone collisions or shunts.	It is recommended adequate visibility is provided to and from the access in line with the speed of the road.	A new radius will be created at the corner with No.9 NBL and the existing fence line boundary of No.9 NBL will be trimmed back and can be further trimmed back if necessary so the 2.4m x 45m visibility splay can be provided.		
 Problem 6 Location: New Bridge Lane (East) Sub- Station. Summary: Lack of maintenance access resulting in pedestrian/vehicular collisions. The existing compact sub-station on New Bridge Lane (East) is to be relocated behind the proposed footway as part of the scheme proposals. 	It is recommended that a suitable maintenance access is provided to the sub-station.	Comment rejected. Compact substation will be relocated to the verge adjacent to the widened section of New Bridge Lane. It is anticipated that any work/maintenance required to be undertaken on the compact substation will be done by a small team who will make the area around the		



RSA Problem	RSA Recommendation	Design Organisation Response	Overseeing Organisation Response	Agreed RSA Action
The existing sub-station is currently accessible from the public highway with maintenance vehicles able to park on a widened section of the existing carriageway. If a suitable access is not provided, maintenance vehicles may park on footways and block the paths of pedestrians forcing pedestrians to step into the carriageway at risk of collision with vehicles.		work safe for pedestrians and vehicles. It is not anticipated that a dedicated access will be required.		
 Problem 7 Location: Copart Private Access – New Bridge Lane (East). Summary: Traffic sign obstructing visibility to and from access leading to T-bone collisions or shunts There is an existing private access located on the south side of New Bridge Lane, immediately east of Salters Way which provides access to Copart car salvage auctions. There is an existing sign located in the verge to the east of the access. The position and size of the sign may restrict visibility to the right of the access. The restricted visibility may lead to vehicles exiting the access at unsuitable gaps in traffic flow leading to T-bone collisions or shunts. 	It is recommended that the sign is relocated outside the visibility splay at the access.	Comment accepted. This sign however belongs to Copart and they may have obtained prior permission from CCC and incurred financial cost. The feasibility of relocating this sign will be discussed with CCC and drawing 41310-WOOD- XX-XX-DR-OT- 0026_S0_P03 would be amended if necessary.		
Problem 8	It is recommended that a Traffic Regulation Order	Comment accepted. The feasibility to introduce		
Location: New Bridge Lane (East)	(TRO) and waiting	waiting restrictions (part		

RSA Problem	RSA Recommendation	Design Organisation Response	Overseeing Organisation Response	Agreed RSA Action
Summary: Lack of waiting restrictions could lead to side swipe between larger vehicles and vehicles parked on New Bridge Lane (East). There is currently no parking restriction on New Bridge Lane (East). During the site visit, it was observed that vehicles parked on both sides of the carriageway and a high percentage of vehicles accessing New Bridge Lane East were HGVs. The scheme proposal will increase the number of HGVs accessing New Bridge Lane East. Without parking restrictions, drivers may continue to park on both sides of New Bridge Lane and may make it difficult for larger vehicles to access New Bridge Lane leading to side swipe collisions.	restrictions are implemented to restrict parking on New Bridge Lane (East).	time or full time) along New Bridge Lane (East) will be discussed with CCC. If the limited waiting restrictions were considered feasible, the design can be updated accordingly in the next design stage.		
 Problem 9 Location: Junction of New Bridge Lane with Cromwell Road Summary: Existing traffic signs leading to driver confusion, sudden braking and shunts. There are existing give ways signs at the junction of New Bridge Lane with Cromwell Road. With the introduction of the traffic signals at the junction, these signs will become redundant. If the existing signs are retained in their current location, it may confuse drivers 	It is recommended that the existing give way signs at the junction are removed.	Comment accepted. Existing give way signage will be removed and will be clearly annotated in the Site Clearance drawing which will be prepared as part of the detailed design stage.		



RSA Problem	RSA Recommendation	Design Organisation Response	Overseeing Organisation Response	Agreed RSA Action
as to whether to give way at the junction leading to driver hesitation, sudden braking and shunts.				
 Problem 10 Location: Junction of New Bridge Lane with Cromwell Road. Summary: Existing traffic signs obscuring visibility to the traffic signals leading to shunts and T-bone collisions. The scheme involves the signalisation of the junction of New Bridge Lane with Cromwell Road. There are existing speed limit and give ways signs at the junction. The location of the existing signs may obscure visibility to the proposed traffic signals. This could lead to drivers seeing signals late and braking suddenly resulting in shunts. Vehicles may also fail to stop at the signals resulting in T-bone collisions with vehicles travelling on Cromwell Road. (See also Problem 9) 	It is recommended that a review of the signs is undertaken and if required, signs are relocated to provide adequate visibility to the traffic signals.	Comment accepted. A sign audit will be undertaken to inform the Site Clearance plan which will be part of the detailed design stage. The aim of the site audit is to review existing signs within the study area and remove any redundant signs to reduce street clutter.		
 Problem 11 Location: New Bridge Lane / Cromwell Road junction Summary: Signal staging leading to shunts and T-bone collisions. 	It is recommended that the signal staging is reviewed to reduce the risk of shunts and T-bone collisions.	Comment accepted. The LinSig traffic signal model has tested the proposed layout with separate phases for the right and straight-ahead manoeuvres. The traffic model will be submitted to		



RSA Problem	RSA Recommendation	Design Organisation Response	Overseeing Organisation Response	Agreed RSA Action
The existing junction of New Bridge Lane with Cromwell Road is to be signalised. The northbound and southbound approaches to the junction on Cromwell Road are two lane approaches with a right turning pocket.		CCC for review and approval.		
No signal staging diagrams have been provided so it is unclear how the signals will operate. If the straight ahead and right turn manoeuvres on both approaches on Cromwell Road are run together, it could lead to a gap seeking right turn increasing the risk of T-bone collisions.				
If there are separate phases for the right and straight-ahead manoeuvres on both approaches on Cromwell Road, this may lead to right turning traffic blocking the straight- ahead movements increasing the risk of shunts.				
 Problem 12 Location: New Bridge Lane / Cromwell Road junction Summary: Insufficient road width leading to side swipes, loss of control incidents or T-bone collisions The lane widths provided at the proposed junctions are 3m wide. The swept path drawings provided for a 16.5m articulated vehicle at some locations show a vehicle 	It is recommended that vehicle tracking is undertaken for the largest vehicle anticipated to access the junction and if required, the kerb lines at the junction amended to accommodate the swept path of the largest vehicle.	The signal junction has been designed to accommodate anticipated HGV movements (B198 north and south to and from New Bridge Lane west arm and B198 south arm to and from New Bridge Lane east arm) using a 16.5m long articulated HGV, the maximum legal length of		

RSA Problem	RSA Recommendation	Design Organisation Response	Overseeing Organisation Response	Agreed RSA Action
overhang on the lane markings or traffic island. During the site visit, other types of larger vehicles were observed using the junction. If adequate lane widths are not provided these could lead to side swipe collisions. Larger vehicles may also overrun the kerbs leading to loss of control incidents. Where swept path drawings show an overhang on the traffic island, this may reduce the lateral clearance to signal poles. Insufficient lateral clearance could result in vehicles colliding with the traffic signal damaging or rotating the signal leading to drivers not seeing the traffic signal aspect and failing to stop at the junction resulting in T-bone collisions.		an articulated vehicle within the UK. The proposed kerb line on Cromwell Road Northbound north east of New Bridge Lane (North) approach has been amended to provide a straight alignment for straight ahead traffic from Cromwell Road northbound. The swept path of the 16.5m articulated HGV through the junction are within the proposed lanes, only a marginal overhang on Cromwell Road South approach but the likelihood of two 16.5m artic lorry side by side would be low and one of them is likely to hang back to provide enough space for the other lorry to complete its turning manoeuvre.		
Problem 13	It is recommended that	The signal junction has		

vehicle tracking is undertaken for the largest

been designed to accommodate anticipated

RSA Problem	RSA Recommendation	Design Organisation Response	Overseeing Organisation Response	Agreed RSA Action
 Location: New Bridge Lane / Cromwell Road junction Summary: Inadequate carriageway width leading to vehicle overrunning kerbs and loss of control incidents or collisions between vehicles and pedestrians. Vehicle tracking have been provided for a 16.5m articulated vehicle. During the site visit, a number of larger vehicles including a transporter and an HGV recovering another HGV. It was also observed that an HGV turning left out of New Bridge Lane swung into the opposing carriageway to complete the turning manoeuvre. If adequate carriageway width is not provided at the junction, this could lead to larger vehicles overrunning the kerb resulting in loss of control incidents or collisions between vehicles and pedestrians on the footway. 	vehicle anticipated to access New Bridge Lane and if required, the kerb lines at the junction amended to accommodate the swept path of the largest vehicle.	HGV movements (B198 north and south to and from New Bridge Lane west arm and B198 south arm to and from New Bridge Lane east arm) using a 16.5m long articulated HGV, the maximum legal length of an articulated vehicle within the UK. Lane widths and Kerb lines are based on the swept path of the 16.5m articulated HGV through the junction. It is noted that a vehicle transporter was witnessed accessing New Bridge Lane east during the onsite audit, this rigid HGV is likely to be an arrangement approximately 11-12m in length and would be comfortably accommodated within the junction.		
Problem 14 Location: Cromwell Road, approach to New Bridge Lane, Northbound & southbound	It is recommended the phasing of the two signals are linked to have both signals running together or measures are implemented to remove the see-through effects.	Comment accepted. The New Bridge Lane/B198 Cromwell Road junction signals are proposed to be linked to the existing signals at the B198/Tesco access junction. See		



RSA Problem	RSA Recommendation	Design Organisation Response	Overseeing Organisation Response	Agreed RSA Action
Summary: Traffic signal 'see through effect' leading to red light running, shunts and T- bone collisions. The existing junction of Tesco with Cromwell Road immediately north of the proposed junction is signalised. The signals at the Tesco junction are visible from a distance approximately 350m south of the junction of New Bridge Lane with Cromwell Road and may create a see-through effect.		through effects will be mitigated with the use of louvres on the signal aspects of the junctions. The relevant details will be provided as part of detailed design stage.		
Drivers approaching the New Bridge Lane junction with Cromwell Road may still see the signals at the junction further ahead. This could result in vehicles failing to stop, or braking late, resulting in shunts on the approach or T-Bone Collisions with vehicles at the junction.				



5. Design Organisation and Overseeing Organisation Statement

Table 5.1 Design Organisation Statement

On behalf of the design organisation I certify that:

1) The RSA actions identified in response to the road safety audit problems in this road safety audit have been discussed and agreed with the Overseeing Organisation.

Name:	
Signed:	
Position:	
Organisation:	
Date:	

Table 5.2 Overseeing Organisation Statement

On behalf of the Overseeing Organisation I certify that:

- 1) The RSA actions identified in response to the road safety audit problems in this road safety audit have been discussed and agreed with the design organisation; and
- 2) The agreed RSA actions will be progressed.

Name:

Signed:

Position:

Organisation:

Date:



Issued by Adam Guy		
Adam Guy		
Approved by		

Grace Smith

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Document revisions			
No.	Details	Date	
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