1. Purpose

1.1. The Milton Road scheme supports the Greater Cambridge Partnership’s (GCP’s) transport vision of implementing improved public transport routes to encourage more people to use sustainable transport modes instead of the private car. This is part of a wider public transport strategy which aims to support the feasibility of delivering proposed housing and employment growth at Cambridge Northern Fringe, Ely, Cambridge Science Park, Northstowe and Waterbeach (collectively around 27,000 new homes and 9,800 new jobs between 2011 and 2031).

1.2. The report sets out the final design (Appendix A) for Milton Road that includes modifications to the previously approved design following public consultation feedback. In developing the final design, the consultant’s design team has worked closely with the County Council’s road safety and signals teams to ensure that all aspects conform with current regulations, are considered safe, and provide a good balance in terms of functionality for all users.

1.3. The report also presents the landscaping strategy and designs for the various landscape areas along Milton Road. These have been developed following further engagement with the Local Liaison Forum (LLF) in January 2019 and in partnership with Cambridge City Council.

2. Recommendations

2.1. The Executive Board is recommended to:

(a) Support the final design for Milton Road outlined, in Appendix A of the report, as a basis for moving to the detailed design stage, including preparation of the final business case and contractor procurement.

(b) Support the Landscaping Strategy as set out in Appendix B of the report.

3. Officer Comment on Joint Assembly Feedback and Issues Raised

3.1 Details of feedback the Joint Assembly are set out in the report from the Joint Assembly Chair.

3.2 The Joint Assembly was supportive of the proposals and was pleased to hear that the scheme has widespread support from local residents. The chair of the LLF spoke very positively about the effective liaison officers have had with Members.
3.3 The Joint Assembly also welcomed the idea of the incorporation of the idea of public art into the scheme and officers will discuss this with local residents.

4. **Key Issues and Considerations**

4.1. The project has the following key objectives:

a) Comprehensive priority for buses in both directions wherever practicable;
b) Safer and more convenient routes for cycling and walking, segregated where practical and possible;
c) Enhance the environment, streetscape and air quality;
d) Additional capacity for sustainable trips to employment/education sites;
e) Increased bus patronage and new services; and
f) Maintain or reduce general traffic levels.

4.2. **Figure 1** indicates the length of Milton Road under consideration and shows its setting within the wider strategic context. The Milton Road Histon Road Draft Stage 1 Report 25.09.15 sets out the strategic and planning background, and broader context for the scheme.

![Figure 1: Milton Road in the Wider Area Context](image)

4.3. In July 2018, the Executive Board approved the preliminary design for Milton Road for public consultation. The consultation took place in the autumn of 2018. Consultation leaflets were delivered to over 15,000 houses in north Cambridge and the village of Milton. Three formal
consultation events took place that were all well attended. Almost 900 responses were received.

4.4. The consultation analysis report is published online here: Consultation Analysis. In summary, all aspects consulted on received more support than opposition with most aspects of the design receiving significant support. The qualitative aspects of the consultation were of significant value in fine-tuning the final proposals.

5. Options

5.1. Following the analysis of the consultation feedback and extensive dialogue with the County Council’s Road Safety, Signals and Cycling Projects Teams, modifications have been made to the design. These modification have been presented and discussed further at an LLF workshop held on 22nd January 2019. The following paragraphs set out the key changes that have been made with reasons.

Relocation of outbound bus stop near Westbrook Place.

5.2. The previous position of the bus stop slightly obstructed a residential access and also was not ideal given the new design layout including a crossing near to Westbrook place. The bus stop has been relocated closer to Gilbert Road where there is sufficient space.

Addition of signalised crossing near Westbrook Place and subsequent changes to the design of Gilbert Road junction.

5.3. Representation made during the consultation period highlighted the significant local interest in placing a crossing near to Westbrook place to improve access for pedestrians and cyclists. The project team also felt that this option would give more space for a segregated off road solution for Pedestrians and Cyclists on the outbound approach to the Gilbert Road junction that is more consistent with the rest of the scheme.

5.4. Following extensive discussions with Road Safety, Signals and Cycling officers, and further discussion at the LLF workshop and with representatives of Camcycle, it is proposed to use a Toucan Crossing for the outbound crossing of Gilbert Road. The crossing will have a segregated approach but essentially the crossing area is legally defined as dual use, thus allowing cyclists to legally make the left turn into Gilbert Road during the Pedestrian and Cycle signal phase.

5.5. It is also proposed to slightly narrow the inbound cycle lane in the vicinity of the junction in order to slow cyclists and to provide additional space to pedestrians, especially those waiting in the crossing area.

Additional space for pedestrians and cyclists at Elizabeth Way roundabout and removal of shared use areas in favour of full segregation.

5.6. Feedback from the public consultation put forward a strong argument to reduce carriageway widths at the entry points to the Elizabeth Way roundabout in order to enable increased space and achieve full segregation of the footpath and cycleway that circumnavigates the roundabout. In the modified design, the additional space and segregation has been possible to achieve by reducing lane widths on the Milton Road outbound and Elizabeth Way approaches to the roundabout, and by reducing the Milton Road inbound approach to a single lane. Traffic modelling demonstrates that these modifications do not significantly impact the capacity of the roundabout for vehicular traffic.
Positioning of the inbound bus stop position near Arbury Road junction.

5.7. The new position takes into account the potential future requirement for a dropped kerb access into an adjacent property.

Slight modifications to the Arbury Road Junction

5.8. The same approach for pedestrian and cycle crossings as used at the Gilbert road/Milton road junction is proposed for the Arbury Road/Union Lane junction with Milton Road. In this case Toucan Crossings will be used for both the inbound and outbound crossings. The Toucan Crossings will have a segregated approach but essentially the crossing area is legally defined as dual use, thus allowing cyclists to legally make the left into Arbury Road and Union Lane during the Pedestrian and Cycle signal phase.

Addition of signalised crossing near Downhams Lane

5.9. The consultation response set out a preference for a crossing point near to Downhams Lane.

Positioning of the outbound bus stop position near Downhams Lane

5.10. The consultation highlighted that the proposed location of the bus stop was adjacent to a building of local interest. The stop has therefore been re-positioned to a more appropriate location nearby.

Re-worked design for the area around Woodhead Drive to enhance the outbound bus lane, shorten the inbound bus lane, and provide an uncontrolled crossing.

5.11. The question was raised at consultation events as to why we had retained right-hand filter lanes for Woodhead Drive and Kendal Way. Questions were also raised as to whether the outbound bus lane approaching the Kings Hedges junction was long enough to provide any benefit. The consultants have looked at this area in more detail and have modelled the effects of removing the right hand filter lanes. They are satisfied that there is no significant change in the capacity as a result. A new arrangement is therefore proposed that removes the filter lanes, assigns addition length to the outbound bus lane and shortens the inbound bus lane. The new arrangement allows for an uncontrolled crossing point with a central island between the start points of each bus lane.

New design option for pedestrians and cyclists at Kings Hedges junction

5.12. It is proposed to modify the design around the junction to follow the popular approach recently proposed for the Gilbert/Warwick Road junction with Histon Road. This allows for fewer conflict points between pedestrians and cyclists while maintaining full segregation.

Treatment of the outbound pavement between Ascham Road and Ramsden Square

5.13. The previous design included a shared use pavement on the outbound side of the road from Ascham Road to Ramsden Square. Strong concerns were raised during the consultation, mainly from pedestrians, highlighting the fact that given cyclists were being provided a new, completely segregated inbound lane, we should not be encouraging them to share the pavement with pedestrian for the whole length of Milton Road. Following further discussion at the LLF workshop it is proposed to shorten the length of shared use pavement to include only the section between Ascham Road and Elizabeth Way Roundabout. It is felt that this compromise will still allow for the flow of school children on bicycles, many of whom access Milton Road via Highworth Avenue. However this arrangement will promote the proper
usage of the inbound cycle lane for the majority of cyclists, and thus a better environment for pedestrians on the outbound side of Milton Road.

**Other Key Design Considerations**

5.14. The Design Team has incorporated facilities to allow cyclists to legally access signalised crossing points from nearby side roads by including short two way sections.

5.15. The design includes mini zebra crossings on the cycleway at all locations where pedestrians need to formally cross the cycle lane to access signalised crossings.

**Landscape and Environment**

5.16. The scheme will result in existing trees being replaced with a fully considered and developed tree planting design along the length of Milton Road, taking into account relevant design guidance, in particular that developed by the Tree Design Advisory Group (TDAG) [http://www.tdag.org.uk/about-tdag.html](http://www.tdag.org.uk/about-tdag.html). The tree planting strategy is set out in Appendix B.

5.17. Designs for the main landscaping opportunity areas were considered at the recent LLF workshop. The designs are set out in Appendix B alongside the landscape strategy for Milton Road.

**Cost Benefit.**

5.18. The consultants WSP have prepared a cost benefit analysis of the scheme which has indicated a benefit to cost ratio (BCR) in the range of 2.3 to 4.2

5.19. The current estimated cost for the project remains on track to be delivered within its overall budget of £23M as reported to the July Executive Board meeting.

6. **Next Steps and Milestones**

6.1. Subject to the decision made by the Executive Board, officers plan to follow the broad programme set out below:

<table>
<thead>
<tr>
<th>Date</th>
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<tbody>
<tr>
<td>April 2019</td>
<td>Commence Detailed Design.</td>
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<tr>
<td>October 2019</td>
<td>Appoint Contractor (packaged with Histon Road).</td>
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<tr>
<td>January 2020</td>
<td>Detailed Design Complete.</td>
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<tr>
<td>March 2020</td>
<td>Executive Board decision to commence construction.</td>
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<tr>
<td>April 2020</td>
<td>Commence construction.</td>
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<tr>
<td>Winter 2021</td>
<td>Scheme Complete – this is the subject of further timetabling work.</td>
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7. **Implications**

**Financial and Other Resources**

7.1. The scheme development and implementation is funded by Greater Cambridge Partnership through City Deal funding.

**Legal**

7.2. No significant legal implications have been identified at this stage although they may emerge as the project moves towards the statutory process stage.
**Staffing**

7.3. Project management is undertaken by Greater Cambridge Partnership. Design work is undertaken by consultants WSP.

**Risk Management**

7.4. A full project risk register forms part of the Project Plan.

**Equality and Diversity**

7.5. There are no equality or diversity implications in this report although they may emerge as the project moves towards the statutory process stage.

**Climate Change and Environmental**

7.6. The proposed measures have the potential to reduce congestion and improve air quality in the longer term through encouraging a shift towards sustainable transport modes.

**Consultation and Communication**

7.7. A programme of engagement with the Milton Road Local Liaison Forum has led to the Officer recommendations in this report. Officers will carry out further engagement with the LLF as part of scheme delivery.
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## Background Papers

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<td><a href="https://www.greatercambridge.org.uk/download/7595/Milton%20Road%20report%202019%20FINAL.docx">https://www.greatercambridge.org.uk/download/7595/Milton%20Road%20report%202019%20FINAL.docx</a></td>
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