

8 March 2019

To: Members of the Greater Cambridge Partnership Executive Board:

Councillor Lewis Herbert Cambridge City Council (Chairperson)
Councillor Ian Bates Cambridgeshire County Council (Vice-Chairperson)
Councillor Aidan Van de Weyer
Phil Allmendinger South Cambridgeshire District Council
University of Cambridge
Claire Ruskin Cambridge Network

Dear Sir / Madam

You are invited to attend the next meeting of **GREATER CAMBRIDGE PARTNERSHIP EXECUTIVE BOARD**, which will be held in **COUNCIL CHAMBER** at South Cambridgeshire Hall in Cambourne, on **WEDNESDAY**, **20 MARCH 2019** at **4.00 p.m.**

Requests for a large print agenda must be received at least 48 hours before the meeting.

AGENDA PAGES 1. **Apologies** 2. **Declarations of Interest** 3. Minutes of the Previous Meeting 1 - 26 To authorise the Executive Board to sign the Minutes of the meeting held on 6 December 2018 as a correct record. **Questions from Members of the Public** 27 - 28 4. 5. Feedback from the Joint Assembly 29 - 34 6. **Budget Setting 2019/20 and Quarterly Monitoring Report** 35 - 56 7. 57 - 64 **GCP Future Investment Strategy** Milton Road: Bus, Cycling and Walking Improvements 8. 65 - 106 9. A10 Foxton Level Crossing Bypass and Parking at Foxton Rail 107 -Station 114 **Cambridge Biomedical Campus Transport Needs Review** 115 -10. 150

Democratic Services Contact Officer: Democratic Services 03450 450 500 democratic.services@scambs.gov.uk

<u>Cambridge Biomedical Campus Transport Needs Review – Part 1</u> Cambridge Biomedical Campus Transport Needs Review – Part 2

The following background documents are available online:

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2. I	Rural Travel Hubs	

<u>Cambridge Biomedical Campus Transport Needs Review – Part 3</u> <u>Cambridge Biomedical Campus Transport Needs Review – Non-</u>

13. Date of Next Meeting

Technical Summary

To note that the next meeting will be held on Thursday 27th June 2019, at 4pm in the Council Chamber at the Guildhall in Cambridge



Securing future prosperity

GREATER CAMBRIDGE PARTNERSHIP EXECUTIVE BOARD

Minutes of the Greater Cambridge Partnership Executive Board held on Thursday, 6 December 2018 at 4.00 p.m.

PRESENT:

Members of the Greater Cambridge Partnership Executive Board:

Cllr Lewis Herbert Cambridge City Council Professor Phil Allmendinger University of Cambridge

Cllr Ian Bates Cambridgeshire County Council

Claire Ruskin Cambridge Network

Cllr Aidan Van de Weyer South Cambridgeshire District Council

Members of the Greater Cambridge Partnership Joint Assembly in attendance:

Cllr Tim Wotherspoon

Cllr Tim Bick

GCP Joint Assembly Chairperson

GCP Joint Assembly Vice Chairperson

Cllr Dave Baigent GCP Joint Assembly Helen Valentine GCP Joint Assembly

Officers/Advisors:

Peter Blake Transport Director, GCP

Sarah Heywood GCP

Kathrin John Democratic Services, South Cambridgeshire

District Council

Niamh Matthews Head of Strategy and Programme, GCP

Rachel Stopard Chief Executive, GCP

Victoria Wallace Democratic Services, South Cambridgeshire

District Council

1. APOLOGIES

There were no apologies for absence.

2. DECLARATIONS OF INTEREST

Professor Phil Allmendinger declared the following non-pecuniary interests:

1. in relation to agenda item 6; as an employee of Cambridge University, which was a landowner and agenda item 8; as a resident of Gilbert Road.

3. MINUTES OF THE PREVIOUS MEETING

The Executive Board **APPROVED** the minutes of the meeting held on 11th October 2018 as a correct record.

4. QUESTIONS FROM MEMBERS OF THE PUBLIC

The Executive Board **RECEIVED** and responded to public questions as part of agenda items 6 and 8. Details of the questions and a summary of the responses are provided in Appendix A to the minutes.

5. JOINT ASSEMBLY CHAIRPERSON'S REPORT

The Executive Board **RECEIVED** an overview report from Councillor Tim Wotherspoon, Chairperson of the GCP Joint Assembly, on the discussions from the GCP Joint Assembly meeting held on 15 November 2018.

Councillor Wotherspoon was pleased to see that since the Joint Assembly's meeting, the issues regarding Histon Road had been resolved with the Histon Local Liaison Forum (LLF), and the proposed improvements were reflected in the scheme being presented to the Executive Board.

6. CAMBOURNE TO CAMBRIDGE BETTER PUBLIC TRANSPORT PROJECT

Helen Bradbury, Chairman of the Cambourne to Cambridge Local Liaison Forum (LLF) summarised the outcomes of the LLF meeting which had taken place on 14th November 2018. In addition to a number of detailed comments on proposals, the LLF had agreed the following recommendations:

- That no decision be taken on a preferred route until greater clarity on the Cambridge Autonomous Metro (CAM) was provided; the proposed network, connectivity and funding. It was felt that the off-road bus route due to its poor connectivity to the Cambridge Biomedical Campus (CBC), Science park and the city centre, it's poor transport benefits and low BCR, did not stand up to scrutiny.
- That a northern off-road option be developed. It was felt that there could be major advantages to this; it could better connect with the Oxford Cambridge Expressway and developments at the Girton Interchange in the longer term, and could link with the Science Park, CBC and the North West Cambridge site.
- That given the lengthy timescale involved in building an off-road scheme, an inbound bus lane be designed on Madingley Road immediately. This would provide significant public transport benefit to the residents west of Cambridge.

Nine members of the public were invited to ask their public questions. The questions and a summary of the responses are provided at Appendix A of the minutes.

Councillor Rod Cantrill was invited to address the Executive Board. Councillor Cantrill made the following comments:

- The GCP had created the LLF structure to allow direct input into the development and delivery of transport schemes. The Cambourne to Cambridge LLF had sought to work with the GCP in a constructive way.
- He asked if the Board would indicate how the report took into account the work of the LLF and whether the community's preferred option would continue to be developed in parallel with other options.
- He felt that the recommendation ignored the input of the LLF and sought to drive forward a proposed option that did not have the support of the local community.
- He asked what role the LLF would play in the development of proposals going forward.

Councillor Gavin Clayton, local Member representing Cambourne, was invited to speak and made the following points:

- Cambourne residents had not been involved and their opinions had not been heard as much as they could have been so far.
- Cambourne was an important community to be considered in the GCP's decisions; it consisted of over 4300 homes.
- He had been a Cambourne resident for 19 years. He used his car on average once a week and cycled and used the bus from Cambourne the rest of the time. He was therefore well aware of the failings of public transport and the lack of cycling infrastructure between Cambourne and Cambridge. He cycled through Coton and empathised with the impacts the residents of Coton feared with an off-road solution. He would like to walk the route of the off-road option and suggested this may be useful for other councillors to do.
- Cambourne residents needed an affordable and reliable public transport service
 that offered swift journey times and was frequent enough to serve residents' needs
 to get to work and college on time. It also needed to serve night time engagements
 in Cambridge. The current bus service ended at 10.45pm, which was a problem if
 you worked or wanted to go out at night.
- Cambourne residents experienced congestion at peak times; congestion was not just in Cambridge, there were traffic jams occurring on Broad Street in Cambourne.
- Cambourne residents experienced an expensive bus service. Cambourne residents paid £7 return to Cambridge, whereas the return fare from Hardwick was £4.50. Councillor Clayton queried how Stagecoach could justify this.
- The off-road solution addressed congestion but not in the immediate short term, therefore an interim measure was needed to address the issues.
- The welfare of residents, including their mental health, was affected by having to commute and being stuck in congestion.
- A constructive debate was needed; Councillor Clayton had attended the recent LLF meeting at Comberton and did not feel it had been constructive or professional at all times.
- The clarity of arguments needed to be conveyed so that decisions could be made.
- Councillor Clayton was keen for peak time congestion charging to be looked at, with money raised from this being shared between South Cambridgeshire and Cambridge City.
- He suggested an employer subsidy for bus services be worked on in order to make bus services more affordable for users, as many Cambourne residents could not afford to use the bus.

Councillor Tom Bygott was invited to speak and made the following points:

- He supported the Cambourne to Cambridge route becoming part of the CAM
 metro, that the route would be built to metro standards and would operate using
 electric vehicles. The best route was that which did the least damage to the
 countryside, enabled swift journeys and would not have to be replaced at a later
 date.
- The on-road option would damage the environment for residents on Madingley Road, which would become urbanised. The purpose of the project should be to reduce traffic along that road and preserve the environment of the American Cemetery.
- Councillor Grenville Chamberlain, local Member representing Hardwick, was concerned about the destruction of the trees between the A428 and the St Neots Road; this could be avoided by using the north side of the A428.
- Councillors Ruth Betson and Shrobona Bhattacharya, local Members representing Cambourne, had consulted widely in Cambourne and feedback was that residents

- wanted the fastest possible journey time. Time saving was most likely to encourage people to use the bus instead of their cars.
- Extra care was needed to provide the most segregated route possible; the north side of the A428 west of Madingley Mulch, would minimise contact with other road users and allow faster journey times with fewer accidents. Councillor Bygott suggested this was the safest location for a route.
- He raised concerns regarding two sharp bends near the Cavendish Lab, which Councillor Bygott thought was likely to severely impact journey times and may cause part of the route to need to be replaced after a few years at considerable extra cost.
- Councillor Bygott asked that the GCP looked at these issues as the project was developed in more detail and looked at some of the work Cambridge Connect had undertaken regarding routes.

In response to the points raised by the councillors, the Executive Board was informed of the following:

- The GCP Transport Director had agreed some next steps with the LLF Chairman in relation to the technical workshops, and a full response would be provided to the questions raised at the last LLF meeting.
- The Transport Director would compile evidence on the northern route.
- The views and involvement of Cambourne residents would be sought over the next 12 months.
- The importance of fast public transport journey times was recognised.

The GCP Transport Director presented the report providing an update on progress with developing the business case for the A428 Cambourne to Cambridge (C2C) Better Public Transport project. Attention was drawn to the recommendations, emphasising this was an update report following the public consultation that had taken place 12 months ago and following the 6 month pause that had been requested by the Combined Authority. Members were notified there had been a drafting error in the published recommendations and in recommendation (b); 'endorse' should be read 'received'.

It was noted that an Executive Board decision on an outline business case would be sought in Autumn 2019, following a formal public consultation on phase 2, which would start in the new year.

From the initial public consultation, a desire to take forward short-term cycling and walking improvements on Madingley Road, had been identified and this would be progressed as a separate scheme.

The Executive Board's attention was drawn to the City Access paper which covered the whole of the West Cambridge Campus, and set out how a series of interchange facilities would be developed to provide for the maximum possible public transport offer.

Regarding the Cambourne to Cambridge route, Councillor Bates highlighted the need to take account of areas beyond Cambourne, going towards Bedford. The Transport Director pointed out that while these areas were outside the geographical scope of the GCP, the GCP was working closely with the Combined Authority and took account of the wider strategic development of the corridor.

Councillor Van de Weyer spoke on the proposals and made the following points:

- He highlighted the enormous growth that Cambridge was continuing to experience, which was of national importance and should be supported and enabled without damaging the attractiveness of Cambridgeshire.
- He highlighted a need to acknowledge that the GCP had not achieved as much as it had hoped, as quickly as it had hoped and in as consensual a way as it should have done.
- He felt that the Mayor was not bringing people together and was attempting to impose his views, which had blighted the work on the Cambourne to Cambridge corridor.
- Speed of delivery, quality of engagement and delivering a coherent strategy needed to be focussed on.
- He did not endorse a particular scheme at this stage, but supported enabling work to continue.
- He suggested that there had been a breakdown of trust between the GCP and the
 public and emphasised it was essential that the GCP had the public's trust. Councillor
 Van de Weyer welcomed the continued discussion and engagement with the LLF.
- Confidence was needed that the GCP was getting independent expert advice and that a range of local opinion was gathered.
- Details of the impact on the environment needed to be looked at and concerns regarding this needed to be addressed fully.
- Getting a good route that enabled residents of new communities such as Cambourne and Bourn Airfield, to reach Cambridge and employment sites in a timely way via public transport, was essential for the South Cambridgeshire Local Plan.
- The off-road scheme would create extra road space for more cars. A balance between the attractiveness of cars versus public transport, was essential.
- Councillor Van de Weyer welcomed plans to review information on the northern route and planned interim measures. He advised the Board that he supported the recommendations on the basis that further work was still to be done.

Claire Ruskin emphasised how fortunate the area was to have so many jobs and so much growth. A means of getting people to their jobs and colleges was needed, without using cars and more needed to be done for the residents that lived further outside the city. People needed to be enabled to live where they could afford and to be able to get to work without needing a car. She indicated her support for swift interim measures that could be implemented before 2024, and the recommendations.

Councillor Bates informed the Executive Board that he had walked the proposed off-road route, had walked around Madingley Mulch and was familiar with Cambourne and the A428. He had used public transport from St Ives to Cambridge, which in his experience was well used because it was frequent, reliable and people used the Park and Ride as parking was free.

While there were unanswered questions that needed to be addressed, Councillor Bates expressed his support for the recommendations.

Professor Phil Allmendinger also expressed support for the recommendations and commented that:

- The bigger picture needed to be presented.
- Access to the city needed to be restricted.
- The conversation regarding intelligent charging and how the revenue generated from this could be used to tackle congestion in a holistic way, needed to be restarted. Other parts of the country such as Bath, were starting to consider this.
- He requested the Local Plan Inspector's report be brought to the fore, to develop the case going forward.

Councillor Herbert speaking on the proposals made the following points:

- He highlighted that the Executive Board was not taking a final decision on the scheme.
 Before a final decision was taken in 2019, there would be further public consultation and more information would be known about related matters, such as whether Highways England would be taking forward improvements to the Girton Interchange.
- The Cambourne to Cambridge scheme was much needed and it needed to stand alone; the off-road option did this and was not reliant on the CAM metro.
- This scheme was part of the overall plan to tackle public transport issues; the 50,000 daily journeys to and from Cambridge, were largely due to the lack of reliable public transport.
- Reliable public transport journey times were not achievable at peak times along the current on-road route.
- The northern route had been looked at in considerable detail, with reports presented to the Executive Board in October 2016, and had significant additional environmental detriments; for those and other reasons, this had not been considered to be deliverable.
- Councillor Herbert thanked the LLF for its work and appreciated that sometimes it and the GCP were not in agreement. He recognised that the LLF had much to contribute.
- Councillor Herbert supported the interim measures for Madingley Road.

The recommendations were put to the vote and the Executive Board agreed unanimously to:

- a) **NOTE** the outcome of the public consultation and the work to date developing the Cambourne to Cambridge Better Public Transport project;
- b) **RECEIVED** the key conclusions of the Interim Report in relation to this:
 - AGREED that Phase 1, Phase 2 and a Park and Ride location continue to be developed towards an Outline Business Case for a High Quality Public Transport route between Cambourne and Cambridge;
 - ii. For Phase 1, **NOTED** that the recommended off-road route, defined as the Specific Route Alignment providing a new public transport corridor between Madingley roundabout and Grange Road best meets the strategic and policy objectives of the Greater Cambridge Partnership; and
 - iii. **AGREED** to develop options for Phase 2 between Cambourne and Madingley roundabout for further Business case assessment including a public consultation and that this section of the route and final recommendation for a preferred Park and Ride site, be presented in the final Outline Business Case;
- c) That the outcome of further work required as a result of recommendation (b) above be included in the final Outline Business Case which will be presented for Board approval in accordance with the current programme (October 2019);
- d) REQUESTED that officers develop detailed technology and design solutions and draw up landscaping and ecological design proposals which would enhance the potential impact of the off-road option solution on the rural environment and ensure maximum transport benefit;

- e) AGREED that cycle and pedestrian infrastructure improvements identified for Madingley Road are taken forward for delivery developed in detail as part of a separate project;
- f) **AGREED** that, following the review by the Combined Authority, proposals for the Cambourne to Cambridge High Quality Public Transport corridor align with the features of a rapid transport network (CAM);
- g) **AGREED** that through the CAM Programme Board, officers ensure that the interface point at the eastern end of the scheme aligns with the work on the tunnelled section of the CAM network; and
- h) AGREED that the ambition for the preferred mode for the scheme once open is an autonomous electric rubber-tyred metro, subject to final business case, and that any interim mode required will be an electric vehicle to ensure a beneficial impact on air quality.

7. CITY ACCESS AND BUS SERVICE IMPROVEMENTS - UPDATE

Councillor Tim Bick was invited to address the Executive Board and made the following comments:

- City Access should have been the centrepiece of GCP policy around which other
 initiatives had been calibrated. Its absence had left the GCP unable to provide a
 complete context for its other schemes, which had led to them receiving more
 opposition than would have been the case.
- Failure to approach City Access in an open minded and strategic manner, led to the ill fated road closures scheme.
- Accessible first class public transport, safer walking and cycling, cleaner air and less wasted time was the cause for which this policy area was working.
- The public needed to be given the opportunity to consider and evaluate the range of options.
- Road charging needed to be discussed with the public to let them reach a view on this
 and what it could offer. Road charging was an important option, which officers had
 described as potentially the most effective option.
- Councillor Bick expressed his support for the recommended approach, which he felt was honest and evidence based and he congratulated officers on a clear, fair and practical report. He encouraged the Executive Board to support the recommendations.
- Councillor Bick queried whether the estimated cost of £20 million to put in place a first class transport system, was ambitious enough and commented that it seemed arbitrary.
- He queried the fairness of the suggestion that revenue support for public transport could come from a form of general taxation, and whether this was deliverable; Councillor Bick was not aware of any power that would enable this to be achieved.
- Regarding the table which compared alternative measures, Councillor Bick suggested
 inclusion of a further criteria for comment against each of the measures, called 'backfill
 potential', to help people understand the dynamics. For example, the prospect of some
 measures being successful in reducing car usage by only a certain class of users,
 would enable other car users to take their cars out uninhibited on the roads and fill this
 space up, thereby cancelling out the gain that had been made.

The GCP Transport Director responded to Councillor Bick and presented the report, which outlined the GCP's transport vision and the challenges it faced. He referred to:

- The £20 million estimate which was based on evidence suggesting the existing public transport offer needed to be doubled.
- Locking in the benefits was critical and how this was done would need to be demonstrated to decision makers. Phasing and reassigning road space would be critical.
- There were emerging Mayoral and Combined Authority powers to allow business levies to be raised.
- The Transport Director was looking at the issues in the villages and how they would benefit. This work was ongoing, with a particular focus on Cottenham.

Councillor Herbert made the following comments on the proposals:

- He highlighted the public transport issues in Cottenham, which had been raised at the Joint Assembly meeting.
- The £20 million cost for a first class public transport system had been suggested by Councillor Wotherspoon. He explained this was based on a pro-rata comparison between Greater Cambridge and Greater London and the amount of subsidy given to London's public transport.
- All Joint Assembly members were of the view that this was an urgent challenge and wanted the Executive Board to address this as a matter of priority.
- Clear questions should be asked to enable meaningful engagement with the public.

Councillor Bates proposed the following amendment to the recommendations (changes to the original wording shown in strikethrough/bold text):

The Executive Board is recommended to:

- a) Note the work to date on the City Access Programme;
- Agree to undertake a second big conversation exercise to obtain public feedback on the options to invest in and significantly improve public transport and manage demand for road space contained within the report with the exclusion of the demand management proposals;
- c) Request that officers undertake no further work on demand management as an option; and
- d) e)Continue to work on developing a final package of City Access proposals and public transport improvements, incorporating public feedback, for the Executive Board's consideration in 2019.

Councillor Bates explained the following reasons for the proposed amendment:

- Other phased measures needed to be put in place and reported back on before demand management was considered, to determine whether it was actually needed. Examples of measures to be put in place first were:
 - Travel planning with schools and businesses; congestion was much reduced during the school holidays.
 - The enhancement of traffic lights and signals to improve the flow of traffic.
 - o The extension of Park and Ride.
 - Further implementation of residents parking; only four of 26 areas had been implemented.

- On road/off road parking.
- Road closures to increase the flow of traffic.
- Low paid workers could not afford a demand management charge.
- 49% of poor air quality was caused by buses and coaches; this needed to be addressed with Stagecoach.

The proposed amendment was not seconded and therefore fell, however the points raised by Councillor Bates were noted.

Claire Ruskin suggested that access needed to be fair and not punitive; intelligent charging would be fair. Technology was more able to facilitate intelligent charging and excluding this would be illogical.

Professor Allmendinger suggested that measures needed to be evidence based and supported the inclusion of intelligent charging.

Councillor Van de Weyer emphasised the need to aim for a coherent City Access strategy that had as much public support as possible. Open public consultation was vital. Councillor Bates' concerns regarding the lower paid were understood. The impact of all options and all residents needed to be clearly understood.

Councillor Herbert supported looking at a range of options on demand management. Businesses needed to be engaged with. There was not a good enough quality public transport alternative with the reliability, range of hours and range of services that was needed. There was also a near monopoly bus service provider, which would not deliver what was needed. Radical improvement was needed. Poor air quality needed to be addressed with investment needed in electric buses and electric vehicles. Businesses, major employment hubs and the university needed to be involved.

Councillor Bates suggested the Big Conversation regarding intelligent charging, needed to be expanded to a wider geographical area to include areas such as Haverhill, which was outside the GCP's boundaries. He pointed out that many people who lived in surrounding areas, worked in Cambridge. The GCP Chief Executive reassured Members that the GCP wanted to build on the Big Conversation and widen this.

Councillor Bates informed the Executive Board that the County Council bus subsidy was £1.7 million across Cambridgeshire and whilst most bus services were self-supporting, smaller villages did not have a bus service. The rural isolation this brought needed to be addressed.

Following further discussion, Councillor Bates confirmed he would reluctantly support the recommendations set out in the report..

The Executive Board:

- a) **NOTED** the work to date on the City Access Programme;
- AGREED to undertake a second big conversation exercise to obtain feedback on the options to invest in and significantly improve public transport and manage demand for road space contained within the report; and
- c) **AGREED** to continue to work on developing a final package of City Access proposals and public transport improvements, incorporating public feedback, for the Executive Board's consideration in 2019.

8. HISTON ROAD: BUS, CYCLING AND WALKING IMPROVEMENTS

Councillor Mike Todd-Jones and Lilian Rundblad were invited to speak as Chair and Vice Chair of the Histon Road LLF. They provided an update on the meeting, which took place on 26 November 2018 and had been called due to the changes that had been made to the Histon Road scheme design since the last LLF meeting. Officers were congratulated for taking steps to address concerns expressed at the Joint Assembly meeting. It was noted that the LLF had agreed the following resolutions:

- To request the Greater Cambridge Partnership Executive Board to direct that in consulting with the residents of Histon Road between Blackhall Road and Brownlow Road, the officers, including the landscape designer, take into consideration incorporating into the design a three metre high steel-mesh fence with climbers, verge with seeded grasses and semi-mature trees planted in the verge by every other fence panel as replacement of present hedges between Blackhall Road and Brownlow Road. Further, that negotiations with the County Council would ensure that the area would be maintained by Highways as well as any drainage construction required between the verge and private properties.
- To request that the Greater Cambridge Partnership Executive Board direct the officers to incorporate unambiguous pedestrian priority at minor road junctions.

Public questions were invited from Lilian Rundblad, Anna Crutchley and Matthew Danish. Details of the questions and a summary of the responses are set out in Appendix A of the minutes.

The Chairperson drew the Executive Board's attention to public representations received from Molly and John Snedden, details of which had been circulated to the Board.

The Joint Assembly Chairperson provided an overview of the Joint Assembly's discussions regarding Histon Road. There had been a feeling at the meeting that this scheme did not provide bus, cycling or walking improvements. He congratulated the officers for the work that had been done to redesign the scheme following the Joint Assembly meeting.

The GCP Transport Director presented the report which set out the final design proposals for Histon Road. The Executive Board was informed that dialogue was ongoing regarding boundary and landscape issues. The lessons learnt from the Gilbert Road junction design would be applied to other schemes.

The Executive Board discussed the report:

- Councillor Van de Weyer commented that the result regarding the Gilbert Road junction, demonstrated what could be achieved. It needed to be reinforced that drivers did not have priority when entering cycle lanes.
- Councillor Herbert highlighted that Histon Road was a constrained road, which had not been a safe route for cyclists or pedestrians. The scheme was very different to how it had begun, and had been much improved by the public engagement that had taken place.

The Executive Board unanimously **SUPPORTED**:

- a) The final design for Histon Road as shown in the plans in Appendix B of the report as a basis for moving to the detailed design stage, including preparation of the final business case and contractor procurement; and
- b) The Landscaping Strategy as set out in Appendix A of the report.

9. QUARTERLY PROGRESS REPORT

The Head of Strategy and Programme presented a report which updated the Executive Board on progress across the GCP work streams. The Board was informed that the GCP was revisiting the market regarding the skills apprenticeship service procurement, with a view to appointing a provider in the early Spring.

The Executive Board discussed the report:

Claire Ruskin expressed support for the joint procurement of a transport consultancy framework. She suggested that thought should also be given to the appointment of a Joint Transport Director.

Councillor Bates requested the inclusion of the information on the Gateway Review in the next report.

The Executive Board reviewed the Forward Plan identifying items for discussion at future meetings. It was noted that the South East Transport Scheme would be considered at the June 2019 meeting and the Waterbeach Public Transport Route would be considered in December 2019.

The Executive Board:

a) NOTED:

- i. The update on the proposed GCP Apprenticeship Service procurement exercise.
- ii. The update on GCP cycling projects.
- iii. The communications update.
- b) **AGREED** to the joint procurement of a transport consultancy framework.

10. DATE OF NEXT MEETING

The Executive Board **NOTED** that the next meeting would take place on Wednesday 20th March 2019 at 4pm.

The Meeting ended at 7.12 p.m.



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App	Appendix A			
Que		mbourne to Cambridge Better Public Transpo	ort Project	
	Questioner	Question	Answer	
6a	Mal Schofield	The Arup Report includes a Summary Position Paper. My question to the Board, once again, challenges the lack of an agreed integrated strategic overview covering the present and future transportation network. Please see Figure 4 Illustrative CAM concept (attached). Over 10 existing and permanent infrastructure elements are excluded. Additions already determined, include the new notion of "Metro Hubs". All Consultancy inputs should consistently reflect both what exists and what might well be added as critical components of a comprehensive infrastructure. It is the network that will deliver the meaningful modal shift towards alternatives to the car. Question. Have Arup delivered 1. a useful and value for money insight 2. fully discharged their role and professional responsibilities as a	Arup were commissioned by the Combined Authority (CA), and a summary report was published and presented to the CA Board in October. Since its publication, the GCP has pursued an extended position paper, included as Appendix 2 to the Executive Board report, in order to share more detail with stakeholders. It would be for the CA, as the commissioning authority, to comment on the performance of Arup.	

6b Carolyn Postgate	Does the Board have the courage to draw back from making a terrible, costly and destructive mistake? Despite the vast amount of money, time and energy already spent promoting a predetermined off-road route, defined as the Specific Route Alignment, the case has not been made for the sacrifice of Madingley Hill, Coton and the West Fields for an unproven "greater good". It will not fulfil any of the stated Project Objectives (see Agenda Public Reports Pack page 23, 7.3): It will not "achieve improved accessibility to support the economic growth of Greater Cambridge" since it does not link seamlessly to major places of employment. It will not "deliver a sustainable transport network/system that connects people between Cambourne and Cambridge along the A428/A1303" since there is no detailed plan for integration with a future transport network. It will not "contribute to enhanced quality of life, relieving congestion and improving air quality within the surrounding areas along the corridor and within Cambridge City Centre" since there is no guarantee that electric buses will work or that bus journeys will be affordable. Does the Board instead have the vision	The Executive Board is not taking a decision on the route today. It is noting the work to date following the pause requested by the CA and agreeing to undertake further work, including a consultation, on the section out to Cambourne. The Cambourne to Cambridge paper, together with the City Access paper later in the agenda, outline proposals for an integrated public transport strategy for Greater Cambridge. The Greater Cambridge Partnership Board will not agree a final route until autumn 2019. Until then, the GCP will continue to work with stakeholders as plans develop.

		to create a public transport scheme directly linking Greater Cambridge's new satellite settlements to their places of employment via a four-ways Girton interchange?	
6c	Sara Godward	The Matt McDonald report says that the proposed route is no nearer to properties than the existing bus route, which is factually incorrect, but it is anyway disingenuous to compare the impact of a slow-moving bus entering the village 3 times a day with a bus at high speed 9 times an hour. My young daughter wanted to come along today with her school friends but I have dissuaded her because I thought it would add to her distress. She has asked me to ask you why you are proposing a route so close to her bedroom that she will be able to touch the fence from her window. She is worried about the noise and the safety of buses travelling at high speed so close to her bedroom and wants to know if this is something you would be happy to inflict on your own children or other children you care about. The public has lost trust in the GCP because of the repeated gross misrepresentation of factual information, which includes a claim in a presentation last week that the off-road route is less detrimental to residential property than the on-road route. Why is the negative impact of potential routes on businesses considered in the report, and not the negative impact on residents?	The Executive Board is not taking a decision on the route today. It is noting the work to date following the pause requested by the CA and agreeing to undertake further work, including a consultation, on the section out to Cambourne. Each option has been assessed using a standard national transport appraisal approach. This approach considers both transport effectiveness, engineering and implementation costs, potential environmental effects and the overall economic/public benefits. Detailed plans for environmental design measures will be developed and taken forward with input from the local community. Any final route will need to undergo a full Environmental Impact Assessment which will need to demonstrate the overall impact of any scheme on the environment. Our project team continues to welcome views and contributions from stakeholders throughout development of plans for Phase 1 of the route.
6d	Jane Renwick	The off-road route from Madingley	Significant existing unreliability exists for buses and general

		Roundabout to Grange Road is predicted to take 12 minutes. For passengers travelling onwards to the biomedical campus, the officers are suggesting a change to the U bus from Grange Road onwards to the biomedical campus. The U bus takes no less than 30 minutes (as per timetable) in peak hours from Grange Road to the biomedical campus, but, in reality it takes 35 to 40 minutes. Passengers disembarking from the off-road C2C bus will have to change buses and may be waiting up to 12 minutes. This mode of transport can therefore be expected to take an average of 12+30+6 =48 minutes, just from Madingley roundabout to the biomedical campus. This falls woefully short of the 30 minutes discussed in the joint assembly as the journey time needed to encourage a modal shift. Given that the GCP is aiming for a journey time of 30 minutes from Cambourne to the biomedical campus, can the GCP explain how the off road solution from Madingley roundabout to Grange Road is going to achieve this?	traffic using Madingley Hill. The Cambourne to Cambridge scheme seeks to address this by providing quicker, more reliable journeys through enhanced infrastructure. As well as schemes designed to improve travel into and out of Cambridge, the GCP is looking to significantly improve travel within the city. The GCP's City Access project is designed to reduce congestion in the city centre, improve public transport, cycling and walking, and significantly improve air quality in Cambridge. The Executive Board is today reviewing options for improving public transport and managing demand for road space. In our Big Conversation, held last year, congestion on the road and the cost, reliability and access to public transport were identified as the biggest challenges people faced Together, infrastructure schemes like Cambourne to Cambridge and development of the City Access package will deliver the improvements necessary to significantly enhance local public transport services, including better journey times and greater reliability.
6e	Marilyn Treacy	The Historic England reports states "To conclude, we consider that all three potential routes and their sub-options are likely to cause harm to heritage significance, either to the American Military Cemetery or to the significance of the village of Coton." These conclusions have been misrepresented in the item 6 papers for this meeting and in recent GCP presentations, implying in many places that	A summary Arup report, as commissioned by the Combined Authority was published and presented to the CA Board in October. Since its publication, the GCP has pursued an extended position paper, included as Appendix 2 to the Executive Board report, in order to share more detail with stakeholders.

		the on road solutions are more damaging than the off-road solution when in fact all three are harmful to the environment. It seems that no segregated route via Madingley Mulch will be acceptable. We therefore have to ask "What evidence is there that a "northern" alignment (via the Girton Interchange) for an off-road route is not feasible?" We are told that this evidence is in the full Arup report. Could the GCP please tell us the date when this Arup report was completed and published and provide us with a copy?	
6f	Allan Treacy	I refer to the Mott Macdonald Cambourne to Cambridge Better Public Transport Project Interim Report dated November 2018. Figure 12 on page 45 shows the "monetised benefit for full segregated option Cambourne to Cambridge versus full on-road option." The benefit for the off-road option is shown to be £680 million compared to £140 million for the on-road option. Will the GCP please instruct Mott Macdonald to publish, in full, the assumptions and data underlying these calculations?	Yes. This information is available online at Cambourne to Cambridge section of the GCP website; http://www.greatercambridge.org.uk/cambournetocambridge
6g	Roger Tomlinson	As I understand it, there is a legal requirement that when the scheme for a Cambourne to Cambridge Busway is put out to statutory consultation under government regulations, it is necessary for there to be an alternative low cost option	There is no 'legal requirement' to consult on a 'low cost option' as part of the statutory consents process The business case assessment is based on guidance issued by the DfT. Guidance recommends that in reaching a final option, a lower cost alternative is also assessed.

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		that meets the objectives. This was confirmed to the Local Liaison Forum by the previous Transport Director Chris Tunstall in December 2017, who also confirmed that the LLF Technical Group would be involved in developing the low cost option, then presumed to be on-road. It appears that to meet the Mayor of the Combined Authority's requirement for a segregated scheme that is capable of operating as, or converting to, the "Metro", that it is necessary for the low cost option also to be segregated, and therefore also off-road. The report from Transport Director Peter Blake appears to be exclusively about the officers' preferred off-road high-cost route. Note that the LLF has not been involved in the so-called "optimised" on-road option, for which many of the proposals were rejected at the public workshops. Please explain what route the officers are working on as the low cost option for the statutory consultation?	The project group is working on the optimised on-road option as the low cost option. The LLF technical group was involved in workshops on the optimised and on road options held in February/March. The project group would be happy to continue those discussions with the technical group.
6h	Stanban Coatas	Why has the GCP chosen a route through the West Fields when (a) there were better alternatives that did not harm this very sensitive area of	The Executive Board is not taking a decision on the route today. It is noting the work to date following the pause requested by the CA and agreeing to undertake further work, including a consultation, on the section out to Cambourne.
6h	Stephen Coates	greenbelt (b) when the main route is through the West Cambridge Site (c) when James Palmer's metro scheme will involve a tunnel from the West Cambridge Site making this route	Each option has been assessed using a standard national transport appraisal approach. This approach considers both transport effectiveness, engineering and implementation costs, potential environmental effects and the overall economic/public benefits.

		redundant (d) when both the High Court in 2008 and LDA Design have said this area of greenbelt is critical for the historic city (e) when this route does not as you claim "go around the West Fields" but causes significant damage to its most important and sensitive section - the fields either side of Bin Brook behind the Rugby Club (f) when this route creates potential flood risk for Gough Way which has already flooded numerous times with existing arrangements?	Detailed plans for environmental design measures will be developed and taken forward with input from the local community. Any final route will need to undergo a full Environmental Impact Assessment which will need to demonstrate the overall impact of any scheme on the environment. A Strategic Business Case for the Cambridgeshire Autonomous Metro will be presented to the CPCA Board in early 2019. As proposals are developed, the GCP will continue to collaborate with CPCA to align plans and routing proposals. The reasons for the Specific Route Alignment (SRA) are set out in the report. These reasons are based on a range of transport and environmental criteria. Early design work has been carried out looking at the flood levels and issues. Work to date indicates that this would not require a significant engineering requirement, and can be achieved with relatively moderate design and mitigation measures. As part of the consent process undertaken, and subject to a GCP Executive Board decision in Oct 2019, a Flood Risk Assessment (FRA) is required to support the planning process and to be considered in the Environmental Impact Assessment, which is scrutinised for consent by the Environment Agency and the Local Authority responsible for drainage.
6i	James Littlewood, Cambridge Past, Present and Future	their consultant at the recent LLF it seems that has been a significant breakdown in trust between the community and GCP officers (as represented by most of the LLF	continue to be compliant with standards set out in the governments Transport Assessment Guidance and the GCP uses specialist consultants to provide objective professional advice using these accepted standards and

and community groups such as Cambridge PPF and the National Trust). This relationship seems to becoming increasingly acrimonious and could potentially last for several years with likely legal challenges and fights through the planning system. The breakdown is due to officer's preference for the off-road route leading to some bias in their reports, to the extent that the community no longer believes much of what they are being told. This is not healthy for the community and I would also be concerned, as politicians, as to the information you are receiving. At the last LLF it was recommended to establish an expert panel that is independent of the community, officers and politicians in order to restore trust in the system. The community could have faith that what they are being told is correct – and if it is not correct, then as politicians you can act accordingly. A panel might only need to consist of 2-3 people (transport economist/transport planner/environment&heritage) and need only review the evidence and reports produced by officers and their consultants. In other words, they need not attend meetings and get involved in any discussions, although that might also be helpful. Will the Exec Board consider establishing an independent expert panel for this scheme?

2. At the LLF, Mott Macdonald made much of the response of Historic England to the two options. However, now having now seen the responses of both Historic and

criteria. All information collected by the project on the range of impacts will continue to be published and made available for independent scrutiny.

Consultants appointed by the Cambridgeshire and Peterborough Combined Authority have reviewed the Cambourne to Cambridge scheme and considered the work to date robust.

The Executive Board takes advice from the GCP Assembly which offers robust overview and scrutiny of the work undertaken.

The business case itself would, if agreed, form part of the background to any statutory consents procedure, which would require examination in public and determination by an independent inspector, appointed by the Secretary of State of Transport.

2) Work by both the GCP and Cambridgeshire and Peterborough Combined Authority has identified that a route via Girton would be less direct, have high environmental impacts and would have a strong dependency on external factors around an upgrade of the Girton interchange by Highways England. The GCP has written to Highways England and had a number of meetings regarding the future of Girton Interchange. We understand that improvements to this junction are unlikely to be a priority for the National Network over their next strategy period.

Following the LLF and GCP Joint Assembly on 15, we have asked our consultants to revisit the previous review of the Girton interchange routing and we will provide that information in due course.

		Natural England it is clear that the landscape between Coton and Madingley Hill is significantly important and that any scheme through it will be damaging. These responses add further weight to the argument that an alternative scheme via the Girton Interchange could avoid this harm. At the LLF we requested to see the evidence base showing why such an alternative had been ruled out and we are still waiting to see this. Please will the GCP Board keep the option of this alternative on the table at this stage in order to avoid harm to one of Cambridge's most important landscape areas?	
Que	estions for Agenda Item 8: His		
8a	Questioner Lilian Rundblad, Vice Chair Histon Road Local Liaison Forum, Chair HRARA	Question The Histon Road Area Resident's Association requests the Greater Cambridge Partnership Executive Board to ask the GCP project team to prepare a revised road scheme based on a two-lane carriageway with bypass Bus Stops and enlarged space for walking and cycling between Kings Hedges Road and Carisbrooke Road to be presented to the GCP Executive Board on 6 December 2018.	The project objectives set out the requirement to provide bus priority measures on Histon Road which are achieved by including the proposed length of bus lane. The inclusion of this bus lane was supported in the last consultation.
8b	Lilian Rundblad, Vice Chair Histon Road Local Liaison Forum, Chair HRARA	Warwick Road / Histon Road Junction – Cycling Safety for Schoolchildren The new design for Gilbert Road/Histon Road/Warwick Road Junction was well received at the HRLLF meeting and the work of the Officers agreed. However, on	The request is beyond the scope of the Histon Road project. Officers will explore other possible avenues of delivery and report back to the Residents' Association.

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		my question regarding off-road cycle lane for the schoolchildren on Warwick Road from Histon Road to the Mayfield School reception area, the answer was "it is outside the scope". The representatives for Mayfield School are positive to the off-road cycle lane. There are already designs in the present Histon Road Final Scheme which are "outside the scope". Histon Road Area Residents' Association HRARA requests the Greater Cambridge Partnership Executive Board to direct the officers to incorporate into the present scheme for the Gilbert Road/Histon Road/Warwick Road Junction, an extension of the off-road cycle lanes on Warwick Road to the Mayfield School reception area on Carisbrooke Road.	
8c	Lilian Rundblad, Vice Chair Histon Road Local Liaison Forum, Chair HRARA	Carisbrooke Road Junction and Signalized Pedestrian Crossing The design for the above area was shortly discussed at the HRLLF on November 26th and raised safety questions from the forum as details were difficult to envisage from the drawings: 1. The inbound Bus-lane and car-lane ends in the middle of the road junction, just in front of the new signalized pedestrian crossing; 2. No landscaping has been designed for the outbound floating bus stop in the same area as the pedestrian	The termination point of the bus lane has been designed to allow the merging point to take place in advance of the pedestrian crossing. This arrangement is subject to full safety audit, comments from this audit will be considered by the design team. The landscape proposals for Histon Road were well received at the LLF workshop on 8th October. Following approval of these concepts the project team would look to develop the landscape designs. This will include landscaping along the length of Histon Road as well as the specific landscaping areas that are identified in the appendix to the Board Report.

- crossing, although it includes loss of trees and greenery;
- 3. The new road to the planned residential housing area "Squash Court Road" and the cycle and pedestrian lanes from the Darwin Green development were not included in the design, the road connects to Histon Road just north of the Carisbrooke Road junction.
- 4. In the supplement to the GCP Executive Board meeting 6th December, point 5.15 is stated: "length of inbound bus lane extending from Blackhall Road to a point 40m south of Carisbrooke Road" thus the bus lane will run through the new pedestrian crossing towards Borrowdale bus stop. In 5.11" requires the proposed bus lane to be shortened slightly".
- 5. Consider mitigation at the Roseford Road Junction to reduce rat runs.

The Histon Road Area Residents'
Association HRRA requests The Greater
Cambridge Partnership Executive Board
to direct the officers

a. to shorten the length of the bus lane and the car lane to be merged well before the new pedestrian crossing and the Carisbrooke Road Junction/Squash Court Road exit,

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		b. in cooperation with the landscape designer, prepare a design for the floating bus stop area and the new pedestrian crossing by Carisbrooke Road in consultation with the residents as replacement for the loss of trees and greens.	
8d	Anna Crutchley from Benson Area Residents Association (BenRA)	Parking on Histon Road The south end of Histon Road is a residential area where c. 100 houses front onto the street. The proposed removal of parking will create significant problems for local residents, who will be required to compete for spaces on Canterbury and its neighbouring streets. So far, BenRA has not been given any answers, as to how the logistical problems the removal of parking will be solved. For example: a Carers Some residents on Histon Road have twice daily visits from carers. For example, one elderly resident lives alone and suffers from dementia. Time spent with her by her carer is vital, and very limited. This will be curtailed as the carer spends time looking for a parking space and then having to walk back and forth from the space to her house. This could take up to 14 minutes both at the beginning and the end of her visit, significantly reducing the time spent with her client. b Deliveries/passenger loading and unloading	Given the proposed removal of Residents Parking and Pay and Display parking along the southern end of Histon Road, the project team have considered the issue of short term parking along this section. The feedback gathered from consultation has informed the proposal. Q1 It is proposed to retain pay and display parking bays near to Cranwell Court. The parking bay opposite the ATS garage will be converted to pay and display, and pay and display bays will be created in Lindon Close. This provision should provide the ability for short term parking within an approximate 2-3 minute walk from all properties located in this section of Histon Road. Q2 The advisory cycle lanes in this southern section of Histon Road will have double yellow lines with additional loading/unloading restrictions for peak times. Outside peak time is legal to stop on double yellow lines for the purpose of dropping off, loading and unloading. Q3 Traversing of the advisory cycle lanes will only occur when HGV or Buses are passing each other. When this occurs bus/HGV drivers will need to give way to the cyclists in the cycle lane at the point of passing. In comparison the Pay and Display bays along Histon Road would cause permanent disruption to the cycle lane. It is therefore considered a safer and more appropriate
		Residents and businesses will need	option to provide the more permanent pay and display bays

		facilities for deliveries, loading and unloading passengers, goods, visitors, taxis, builders, and so on. New pay and display spaces (at this stage we do not know how many) will be made available on Linden Close. These are likely to be filled by customers at Domino's Pizza. However, there is no guarantee of enough spaces for other local businesses such as Headlines, the Beauty Den, Sam's Nail Parlour and the curry restaurant.	in the locations detailed above.
		Q1. Is the Executive Board going to consider part-time parking out of peak hours?	
		Q2. What provision will be made for residents' deliveries, loading/unloading/carers/ taxis/ on Histon Road?	
		Q3. Taking into consideration that the cycle lanes will be advisory, and that 2 buses or HGVs passing each other in opposite directions will have to traverse the cycle lanes in order to pass, that vehicles will traverse the cycle lanes to load/unload/drop off, and thereby already compromise cyclists' safety, what is the safety argument against having several well-separated pay and display bays with 2 hour parking restrictions along Histon Road?	
8e	Matthew Danish of Camcycle	The LLF has passed a resolution for pedestrian priority at side roads. We	It is proposed that all but one of the minor side roads (Linden Close) along the length of Histon Road will include
00	matthew Danish of Cameyole	believe this is best provided by continuous	raised table treatments in order to provide improved priority

footways that send an unambiguous reminder of Highway Code rules 170 and 206 to all road users. A generously-sized raised table crossing at the level of the pavement is especially important for slowing down turning motorists and cyclists, just to give pedestrians a chance. But in the proposals before you, only 1 of the 16 uncontrolled junctions will provide true pedestrian priority. The project team has offered some explanations for not providing these features at every side road. But we still believe that it is possible because we can find examples of pedestrian priority side road junction treatments in all kinds of cases around the country (and the world). Narrow and busy junctions are precisely where you need speed-reducing measures to slow down turning traffic. Would you direct the officers to include pedestrian priority measures at all uncontrolled side road junctions as they take the scheme into detailed design?

The Victoria Road junction remains an unsatisfactory design. The popular protected cycleways are all gone. The floating bus stop has been replaced by car parking. The Histon Road crossing is pushed too far north. A loading bay will block a cycle lane even though the shop in question has a rear loading access they could use instead. Some of these issues are more easily fixed than others, like removing the loading bay from the cycle lane, but we would like to see all these issues resolved.

for pedestrians.

Q1 It is not recommended that raised tables or continuous footway are used at the larger side roads (Windsor Road and the Entrance to Aldi/Iceland). These roads experience a wide range of users including large delivery trucks, which make the use of raised tables less suitable.

Q2 The scheme provides improvements for pedestrians, cyclist, and public transport users while also balancing such requirements.

The aim is to provide 1.8m footways where possible and only deviate below this for very short lengths at pinch points.

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Draft work on business cases for recent road schemes has shown that the vast majority of the benefits come from walking and cycling improvements alone. Along Histon Road, the southernmost 160 metres of the proposed bus lane pinches the footway down to an intolerable 1.4m near Roseford Road. This is obviously dangerous for pedestrians. It is also dangerous for people cycling because drivers must emerge from nearly-blind driveways into the cycle lane. Would you direct the officers to ensure that the footways and cycle lanes are of safe and ample width, in this case by replacing the problematic southernmost third of the proposed bus lane, in order to increase the overall benefits of the scheme and fix dangerous conditions for walking and cycling?

Agenda Item 4

Greater Cambridge Partnership Executive Board Questions by the Public and Public Speaking

At the discretion of the Chairperson, members of the public may ask questions at meetings of the Executive Board. This standard protocol is to be observed by public speakers:

- Notice of the question should be given to the Democratic Services Team at South Cambridgeshire District Council (as administering authority) by 10am three working days before the meeting.
- Questions should be limited to a maximum of 300 words.
- Questioners will not be permitted to raise the competence or performance of a member, officer or representative of any partner on the Executive Board, nor any matter involving exempt information (normally considered as 'confidential').
- Questioners cannot make any abusive or defamatory comments.
- If any clarification of what the questioner has said is required, the Chairperson will have the discretion to allow other Executive Board members to ask questions.
- The questioner will not be permitted to participate in any subsequent discussion and will not be entitled to vote.
- The Chairperson will decide when and what time will be set aside for questions
 depending on the amount of business on the agenda for the meeting. Normally
 questions will be received as the first substantive item of the meeting.
- Individual questioners will be permitted to speak for a maximum of three minutes.
- In the event of questions considered by the Chairperson as duplicating one another, it may be necessary for a spokesperson to be nominated to put forward the question on behalf of other questioners. If a spokesperson cannot be nominated or agreed, the questioner of the first such question received will be entitled to put forward their question.
- Questions should relate to items that are on the agenda for discussion at the meeting in question. The Chairperson will have the discretion to allow questions to be asked on other issues.



Agenda Item 5



FEEDBACK FROM THE JOINT ASSEMBLY MEETING 27TH FEBRUARY 2019

Report to: Greater Cambridge Partnership Executive Board 20th March 2019

Report From: Councillor Tim Wotherspoon, Chair, Greater Cambridge Partnership Joint Assembly

1. Overview

- 1.1. This report is to inform the Executive Board of the discussions at the Greater Cambridge Partnership (GCP) Joint Assembly held on Wednesday 27th February 2019, which the Board may wish to take into account in its decision making.
- 1.2. Seven public questions were received. Two questions related to item seven on the agenda, the Future Investment Strategy and five questions related to item eleven, Milton Road Bus Cycling and Walking Improvements.
- 1.3. Seven reports were considered and a summary of the Joint Assembly discussion is set out below.

2. Budget Setting and Quarterly Progress Report

- 2.1 The Joint Assembly had a wide ranging discussion on this item and supported the proposed variations to the previously agreed budget. Members also endorsed plans to explore the feasibility of investing in a rolling fund to support the development of a new electricity substation. However, this was on the understanding that it was clear it would be a revolving fund and the money would ultimately be recovered from developers. It was considered essential to be clear about the principles underlying the proposal and manage expectations accordingly. The Joint Assembly was reminded that it was in GCP's interest to address local grid constraints as one of the key factors that would drive increased demand was the electrification of transport.
- 2.2 In discussing this report members asked about progress with city cycling solutions; raised a number of points of detail about the digital wayfinding devices; and urged officers to urgently look for ways to progress discussions about integrated ticketing. Members also discussed the planned closure of Mill Road Bridge and intimated this presented a golden opportunity for officers to gauge the impact of the closure of this main route into the City and secure valuable data. It was suggested that officers should carefully plan ways of measuring the impact, not just using sensors to measure traffic flows, but also look at other factors such as park and ride patronage. A further suggestion was that steps should be taken to measure the impact on local businesses.

- 2.3 It was noted that in 2019/20 the constituent councils planned to reduce the percentage of New Homes Bonus allocated to GCP projects from 40% to 30%. Discussions about this and other match funding were planned.
- 2.4 The Joint Assembly asked for a report on the planning system to be presented to a future meeting and it was suggested this could form part of the Quarterly Progress Report. Officers were asked to provide an explanation of the process for considering GCP projects and outline what steps were taken to ensure there was proper joined up thinking. One member suggested that planning conditions had the ability to either enhance or frustrate the delivery of strategic projects and stressed it was of critical importance that guidance given to the planning and highway authorities reflected, as far as possible, the strategic thinking behind GCP projects.

3. GCP Future Investment Strategy

- 3.1 The Joint Assembly welcomed the Future Investment Strategy, with one member suggesting it was good to have a report that looked forward to the end of the City Deal and brought into the picture the second Gateway Review in 2024.
- 3.2 The Joint Assembly spoke at length about the suggested criteria for prioritising new schemes. A number of comments and additional suggestions were raised, details of which are summarised below:
 - The cost of public transport should be reflected in the proposed criteria. The aim should not only be to improve public transport but also make sure it was affordable for everyone.
 - One of the proposed criteria was how a scheme interacted with other schemes (both GCP and non-GCP), with specific reference made to alignment with Cambridgeshire and Peterborough Combined Authority schemes. It was suggested that other strategic schemes should be listed, such as the CaMkOx Arc and East West Rail.
 - The criteria would benefit by including reference to timescales, ideally some measure of achievability of timescales against the impact suggested.
 - It would also be helpful to incorporate risks associated with match and Section 106 funding; what the impact would be if funding were not forthcoming; what the alternatives might be; and what were the potential impacts on other services. It was considered important to be clear where assumptions were being made that might impact on other services.
 - With reference to the 'scheme deliverable' criteria, it was suggested that this covered two very different factors. The first was affordability; 'do we have enough money'. The second was practicality/risk analysis. There was a case for these being kept separate; acknowledging there may be a project that was really low risk in technical terms but where GCP simply don't have the money. That was very different to a project which was technically extremely risky.
 - When setting high level strategic priorities it was useful to be able to identify the things you were unlikely to do; clarifying the logical inverse of the strategic priority.
 - A further addition to the criteria was 'enabling housing'. It was important to remember that the aim of the City Deal wasn't to pay for transport for transport's sake. It was about transport as an enabler, particularly in relation to housing.
 - Another important factor was utilising resources to secure future funding for the generation of revenue that enabled the recycling of funds for other GCP purposes;

- something that enabled the GCP to afford more out of the money it had. An example of such a scheme was the energy substation proposal.
- While not necessarily a criteria, it was suggested that it was important to keep in mind skilled people would be required to complete projects.

4. A10 Foxton Level Crossing Bypass and Parking at Foxton Rail Station

- 4.1 The views of the Joint Assembly on this matter were mixed and in many cases, mutually incompatible.
- 4.2 Some members supported the removal of Foxton Level Crossing, recognising the benefits of removing the problems caused by the down time of the rail barrier and the likelihood that this would increase given the predicted increase in traffic volumes, additional planned trains and the potential for East-West Rail. It was suggested that the proposed bridge could enhance the experience of those who were willing to get on a bike and cycle to and from work and cycle for leisure. Another factor raised by those in favour of the proposal was the risks associated with delaying emergency vehicles transporting critically ill patients to Addenbrookes or the relocated Royal Papworth Hospital. Others were of the opinion that as the proposal would reduce journey time it would result in more cars heading into the City Centre, which was at odds with the GCP's aim to reduce journeys into Cambridge. It was also pointed out that by encouraging more cars to come into Cambridge we would increase pressure on park and ride facilities closer to the City Centre. There was also concern that removing the level crossing in isolation would have limited impact on the local traffic situation for little gain across the wider network.
- 4.3 The Joint Assembly recognised the case for developing a Park and Rail Transport Hub at Foxton, but it was clear this would have a significant impact on Foxton given the large number of spaces required. The need for engagement with the local community to gauge potential support for the proposal was therefore critical. It was suggested that the proposals as outlined placed too much emphasis on car parking. It should include more detail on other potential features such as information on provision for cycling and improved bus services.
- 4.4 There was also a difference in opinion about the interdependence of the two projects. Some members did not support the suggestion that neither scheme was reliant on the other being delivered and could be progressed independently.

5. Cambridge Biomedical Campus Transport Needs Review

- 5.1 The Joint Assembly strongly welcomed the report, commenting that it was really useful to bring together relevant information to highlight the severity of problems in one part of the City, which was happening now, not in 5 or 10 years' time. The predicted growth in highway trips was a matter for serious concern. A member had analysed the figures and drew the Joint Assembly's attention to an informative comparative analysis of traffic volumes at the Biomedical Campus with Stansted Airport. It was suggested there was a scale and reality about the potential problem which made it clear urgent action was needed. The report represented a welcome first step.
- 5.2 Members broadly welcomed the proposed interventions and emerging recommendations, however, it was suggested that they should be prioritised. It was also suggested that it would be useful to see the calculated impacts of these interventions, individually and

collectively. Otherwise there was a danger that decision makers would make subjective decisions. It was important to have data on journeys, which was considered critical as the impact of some of the interventions would be dependent on journey origin and purpose. It was suggested that the report underplayed the importance of cycling and did not refer to the potential impact of upgrading cycle routes. It was pointed out that many people visiting the site had appointments and reliability was key. For many public transport choices were limited or non-existent which meant a car journey was the only option.

- 5.3 It was considered important to acknowledge the links between the recently launched Choices for Better Journeys and the extent to which the planned intervention might contribute towards plans to reduce car journeys in the city by 25%. It was also pointed out that the only demand management tool incorporated into the modelling here was parking control and of course there were other potential demand management options currently under discussion.
- It was suggested that there was a need for clearer accountabilities, setting out what the Biomedical Campus itself should be doing/was responsible for; albeit with support from others. If the Biomedical Campus was not clear on what it was being asked to deliver and/or fund there was a danger things would not get done and be seen as someone else's problem. On a related matter it was suggested that similar clarity was needed on governance and accountability for the delivery of Cambridge South Station.
- 5.5 There was a debate about the extent to which the Biomedical Campus and University Hospitals Trust needed to invest more in this. Many small scale interventions could be quickly implemented. It was suggested there was a need for more basic measures such as cycle friendly roads on and to the campus and better signage on and around the site. The drop off zone at the hospital was at the moment a "nightmare" and in need of improvement. There was also a need for better links with park and ride, especially given limited staff parking. More should be done to encourage patients and visitors to travel to the campus by public transport, although there was some opposition to plans to change hospital visiting times to avoid peak times as this negatively impacted patients. It was noted that information on the Addenbrookes website did not encourage the use of public transport.
- Speaking as a future occupier of premises on the campus, Assembly member Dr Andy Williams confirmed that the Review had been developed with key stakeholders and the level of engagement had been extremely positive. He confirmed the partners took this issue very seriously and were investing where they could. He pointed out that most of the people on campus were from the hospital and any financial contribution from them diverted funds from the NHS. He acknowledged that although there was effective engagement with partners and an excellent travel plan was in place, the short term problems were huge and there was a need for more engagement with local residents. The report demonstrated the GCP and Biomedical Campus partners were already working together. If they were able to engage with residents in a similar way this would be an advantage, particularly for the short term initiatives.

6.0 The Chisholm Trail

- 6.1 The Joint Assembly welcomed the report; noted progress to date on Phase One; and emerging proposals for Phase Two.
- 6.2 Members asked and received responses to detailed questions about progress. This included reference to the Newmarket Road section of the route where there had been a delay arising from the redesign of the underpass at Barnwell Lakes. The original plan to move the underpass into place using self-propelled transporters was no longer possible as less space was available due to lizards being found on site.

7.0 Milton Road: Bus, Cycling and Walking Improvements – Final Design

- 7.1 The Joint Assembly noted that there had been a meeting of the Local Liaison Forum (LLF) on 18th February 2019 and received a presentation from the LLF Chair, Councillor Jocelynne Scutt, summarising the outcome of the meeting. It was noted that the following resolutions had been approved:
 - (i) The LLF request that a biodiversity strategy for Milton Road be put to the Assembly/Board.
 - (ii) The LLF seeks assurances that any substantial changes to the scheme will be presented to the LLF to review and scrutinise prior to presentation to the GCP Assembly.
- 7.2 The Joint Assembly welcomed the report and endorsed the proposed recommendations. In addition members welcomed the effective liaison with the LLF, which had resulted in an excellent scheme and acknowledged the change in tone of feedback on the project, which hadn't always been as harmonious as it now was. While it was acknowledged that it was not quite the end of the design process, it was considered appropriate to thank resident's groups and others for their input and congratulate the officers who had worked hard to find a scheme that worked to everyone's benefit.
- 7.3 The Joint Assembly noted an issue with the possible retention of trees in the middle of roundabouts. It was suggested that this was potentially dangerous as it impacted on visibility. One member asked when finalising landscaping trees on roundabouts were kept very low if not taken away; and suggested there was an inconsistent approach to this across the city. In response it was noted that in many cases trees were maintained as a safety measure as poor visibility kept speed down.
- 7.4 With reference to the incorporation of public art into the scheme, the Joint Assembly was supportive of this in principle and it was noted that officers would continue to hold discussions with local residents about this. In response to a question from the LLF Chair, officers confirmed they would be happy to facilitate local Member discussions on residents' parking across both Milton Road and Histon Road.

8.0 Rural Travel Hubs

8.1 The Joint Assembly received a written statement from Oakington and Westwick Parish Council expressing support for a Rural Travel Hub without parking. A further statement from County Councillor Peter Hudson was also received supporting the statement from Oakington and Westwick.

- 8.2 There were a range of views expressed about this item; with little support expressed for the development of the Oakington and Sawston Rural Travel Hubs, while there was general support for the planned consultation on the Whittlesford Parkway Station Masterplan.
- 8.3 Concern was expressed that the outcome of the Rural Travel Hubs consultation had been to set village against village. It was unfortunate that this had happened as it was never the intention.
- 8.4 Some members questioned how Rural Travel Hubs could be a priority suggesting that GCP should be focussing on projects where it could make a step change. It was pointed out that places that were crying out for travel hubs, like Cambourne, should be seen as a much higher priority. The time to look at Rural Travel Hubs was once an extended bus network was in place and settled. To do this earlier risked ending up with hubs being in the wrong place.

Agenda Item 6



BUDGET SETTING 2019/20 AND QUARTERLY PROGRESS REPORT

Report to: Greater Cambridge Partnership Executive Board 20th March 2019

Lead Officer: Niamh Matthews – Head of Strategy and Programme

1 Purpose

1.1 To update the Executive Board on progress across the Greater Cambridge Partnership (GCP) programme.

2 Recommendations

- 2.1 The Executive Board is recommended:
 - (a) To approve the GCP's 2019/20 budget as set out in Appendix A, which includes proposed changes to the previously agreed budgets as set out in section 21.
 - (b) To note, as set out in section 8, the proposal that Form the Future and Cambridge Regional College are to be contracted to start work on the Greater Cambridge Apprenticeship Service as soon as contracts have been finalised.
 - (c) To note the progress across the GCP programme.
 - (d) To adopt the County Council's new Fibre Ducting in Transport Schemes policy, tabled for consideration by the County Councils Economy and Environment Committee on 14th March, as detailed in section 16 of the report. This will support the deployment of fibre ducting in all GCP commissioned transport schemes going forward.
 - (e) To approve the investment of up to £400k to support Stagecoach to purchase two low emission buses to operate on routes within the city centre.

3 Officer Comment on Joint Assembly Feedback and Issues Raised

- 3.1 Details of feedback from the Joint Assembly are set out in the report from the Joint Assembly Chair. This contains details of matters discussed at the recent Joint Assembly meeting and a summary of feedback.
- 3.2 The Joint Assembly asked a number of questions which led to a meaningful discussion on the direction of travel of each element of the report. Specifically, clarity on the nature of the funding required for the energy proposal was requested. There was also discussion around digital wayfinding, planned closure of Mill Road bridge, cross-city cycling and the reduction in New Homes Bonus allocated to GCP projects.
- 3.3 In addition, the Joint Assembly requested that officers bring back to the Joint Assembly a report outlining the way that GCP projects are considered as part of the wider Local Authority planning process, which officers have agreed to do.

4 Programme Finance Overview

4.1 The table below gives an overview of the 2018/19 Budget to January 2019:

						Status	*
Funding Type	2018/19 Budget (£000)	Expenditure to Date (£000)	Forecast Outturn (£000)	**Forecast Variance (£000)	Previous ¹	Current	Change
Infrastructure Programme	26,128	10,336	19,837	-6,291			4 5
Operations Budget	3,790	1,444	3,000	-790			→

^{*}Please note, RAG explanations at the end of this report **Forecast Variance against 2018/19 budget

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¹ Throughout this report references to "previous status" relates to the progress report last considered by the Joint Assembly and Executive Board

Housing and Strategic Planning

"Accelerating housing delivery and homes for all"

					Status	;
	Target	Timing	Progress/ Forecast	Previous	Current	Change
Housing Development Agency – new homes completed	250	2016 -	301			←→
Delivering 1,000 additional affordable homes**	1,000	2011- 2031	853			←→

^{**} Based on housing commitments as at January 2019 on rural exception sites, on sites not allocated for development in the Local Plans and outside of a defined settlement boundary.

5 Breakdown of Housing Development Agency Completion Locations and Tenure Types

Scheme Name	Local Authority	Ward/Area	Actual Affordable Completions 2016/17	Actual Affordable Completions 2017/18	Tenure Breakdown**
Colville Road	City Council	Cherry Hinton	25	0	25 AR
Water Lane	Water Lane City Council Ch		0	14	14 AR
Aylesborough Close	City Council	Arbury	20	0	20 AR
Clay Farm	City Council	Trumpington	0	104	78 AR & 26 SO
Homerton	City Council	Queen Edith's	39	0	29 AR & 10 SO
Fen Drayton Road	SCDC	Swavesey	20	0	20 AR
Horseheath Road	SCDC	Linton	4	0	4 AR
Hill Farm	SCDC	Foxton	15	0	15 AR
Ekin Road	City Council	Abbey	0	6	6 AR
Hawkins Road	City Council	Kings Hedges	0	9	9 AR
Fulbourn Road	City Council	Cherry Hinton	0	8	8 AR
Uphall Road	City Council	Romsey	0	2	2 AR
Bannold Road	SCDC	Waterbeach	0	11	11 AR
Cambridge City Housing Company	City Council	Arbury & Chesterton	0	24	24 AR
Total New Homes			123	178	

^{**} AR – Affordable Rent

SO – Shared Ownership

6 Delivering 1,000 Additional Affordable Homes

- 6.1 The methodology agreed by the Executive Board for monitoring the 1,000 additional homes means that only once housing delivery exceeds the level needed to meet the Cambridge and South Cambridgeshire Local Plan requirements (33,500 homes between 2011 and 2031) can any affordable homes on eligible sites be counted towards the 1,000 additional new homes.
- The Greater Cambridge housing trajectory published in December 2017 (in both the South Cambridgeshire and Cambridge Annual Monitoring Reports 2016/17) shows that it is not anticipated that there will be a surplus in terms of delivery over and above that required to meet the housing requirements in the Local Plans until 2020/2021. Until 2020/21, affordable homes that are being completed on eligible sites are contributing towards delivering the Greater Cambridge housing requirement of 33,500 dwellings. The date at which a surplus against the annualised housing requirement is anticipated will be reviewed and updated when the new Greater Cambridge housing trajectory is published in Spring 2019.
- 6.3 The table in the Housing and Strategic Planning section above shows that on the basis of known sites of 10 or more dwellings with planning permission or planning applications with a resolution to grant planning permission by South Cambridgeshire District Council's Planning Committee, 853 affordable homes on eligible sites are anticipated to be delivered between 2020 and 2031 towards the target of 1,000 by 2031. In practice, this means that we already expect to be able to deliver 85% of the target based on currently known sites.
- 6.4 In May 2018, South Cambridgeshire District Council published an update on its five year housing land supply that demonstrated that for the first time since June 2014 it could deliver a five-year housing land supply. In September and October 2018, South Cambridgeshire District Council and Cambridge City Council adopted their Local Plans, and the Councils can now demonstrate 5.8 years of housing land supply for 2018-2023. As a result, 'five year supply' sites are no longer being permitted by South Cambridgeshire District Council and a number of planning appeals on 'five year supply' sites have been dismissed by the Planning Inspectorate or withdrawn by the applicant. This change in circumstances in South Cambridgeshire in relation to five year housing land supply means that future contributions towards delivering the target will be solely from affordable housing on rural exception sites or planning permissions granted as a departure from the adopted development plan.
- 6.5 The latest housing trajectory (published in December 2017) shows that 38,080 dwellings are anticipated in Greater Cambridge between 2011 and 2031, which is 4,580 dwellings more than the housing requirement of 33,500 dwellings. There are still a further 12 years until 2031 during which affordable homes on other eligible sites will continue to come forward as part of the additional supply, providing additional affordable homes that will count towards this target. With the adoption of the Local Plans and confirmation that the Councils have established a five-year housing land supply, it is anticipated that rural exception sites will start to come forward again. However, due to the nature of rural exception sites and windfall sites, these cannot be robustly forecast up to 2031. Historically there is good evidence of rural exception sites being delivered (around 50 dwellings per year), and therefore we can be confident that the target will be achieved.

Skills

"Inspiring and developing our future workforce, so that businesses can grow"

7 Update on Current Form the Future Activity

			Status	5	
Indicator	Target/ Profile	Progress	Previous	Current	Change
Secondary school/UTC's KS3 & KS4 events	43	70			←→
Special needs events	4	4			←→
Post 16 (KS 5) events run in schools/UTC's	15	8			+
Business School Brokerage Service	2	3			←→
Multi-school events - Opps Ahead/Primary School Fair/ARU	2	3			+
Apprenticeship events/interactions (students + parents)	58	75			↑
Apprenticeship CPD (no of schools)	3	3			+
Business Apprentice Employer Interaction (B2B)	3	4			\leftarrow
Local Labour Market Information	10	10			←→

8 Update on the GCP Apprenticeship Service

- 8.1 The GCP Apprenticeship Service tender was launched on Wednesday 12th December and closed on Friday 18th January. Seven bids were received for the opportunity.
- 8.2 Officers have now successfully been able appoint a provider to deliver the GCP's Apprenticeship Service. The winning bid was a joint bid from Form the Future and Cambridge Regional College. Officers will be working with the provider over the next few weeks to get contracts signed and activity starting as soon as possible. Officers are expecting to be able to mobilise the service during March.

Smart Places

"Harnessing and developing smart technology, to support transport, housing and skills"

				Status	;
Project	Target Completion Date	Forecast Completion Date	Previous	Current	Change
T-CABS (CCAV3 Autonomous Vehicle Project)	Dec 2020	Dec 2020			\longleftrightarrow
Smart Panels – Phase 2 Extension	Mar 2019	Mar 2019			←→
MotionMap – Phase 2 (Enhancements)	2019	2019			←→
Digital WayFinding – Phase 2 (Development)	2019	2019			←→
ICP Development – Phase 2	Mar 2019	Mar 2019			←→
Pedestrian and cycle sensor trials	2019	2019			←→
Update report on integrated ticketing opportunities	Dec 2018	May 2019			←→

9 T-CABS (C-CAV3 Autonomous Vehicle Project)

9.1 The project to trial autonomous shuttles on the Southern Section of the busway continues with multiple meetings held with the supplier (RDM/Aurrigo), internal project team and external stakeholders. Discussions are underway regarding design plans for both the shuttle and the application that will ultimately be used by the passenger to call the shuttle, as well as stabling for the shuttles, entrance/exit from the busway etc.

10 Smart Panels – Phase 2 Extension

10.1 Follow up discussions are under way with the 12 organisations that have shown an interest in hosting a Smart Panel. The further round of publicity was delayed at the end of last year as it was decided that it would be more effective to promote the solution in the new year.

11 MotionMap – Phase 2 (Enhancements)

11.1 Downloads of MotionMap have increased to nearly 1300. Enhancements based on the two changes most requested by users have been implemented and were deployed in January for both Apple and Android.

12 Digital Wayfinding – Phase 2 (Development)

- 12.1 Meetings have been held with Visit Cambridge and the BID to confirm the most suitable proposed sites for additional devices. The outcome of this is a list of approximately 10 potential sites where digital wayfinding would enhance the user experience for visitors, commuters and residents.
- 12.2 We are working with the supplier to evaluate and provide feedback on their development of an improved journey planner. Once signed off, the planner on the devices throughout the city will be updated.

12.3 When the screens are in screen saver mode (not in active use), key council (such as advertising for Foster Carers) and GCP (Choices For Better Journeys engagement) messaging can be displayed on the screens. This provides an additional benefit to the devices being installed throughout the city. There are currently no plans for commercial advertising on the screens.

13 ICP Development – Phase 2

13.1 Work continues on the platform with improvements to bus time prediction data and efforts to make the data more widely available through new channels.

14 Pedestrian and Cycle Sensor Trials

14.1 The specification for work to conduct sensor trials with the aim of collecting significantly improved data has been finalised. A 'Request for Quotation' process will be started imminently, with the aim of procuring sensors to be used in conjunction with the proposed Mill Road bridge closure for works by Network Rail. The aim is to secure a sensor deployment ahead of the closure to provide a benchmark against which the impact of the closure can be measured. Having the sensors in place after the works are completed will allow data to be obtained highlighting the impact of temporary closure.

15 Integrated Ticketing Opportunities

- 15.1 Procurement is complete for consultancy support for an updated review of the integrated ticketing opportunities available, and a supplier has been appointed. The supplier will look at the opportunities in the market to deliver a scheme in the short to medium term as well as a longer-term solution.
- 15.2 The consultants will supply the GCP with both an options appraisal and implementation plan. The results of this work will be brought back to the Executive Board in June for consideration.

16 Fibre Ducting in Transport Infrastructure Schemes

- 16.1 The opportunities presented by digital technology all ultimately rely on the physical deployment of fibre ducting and mobile networks. Whilst the requirements for electricity or water are well understood and infrastructure and new build housing schemes have been incorporating these utilities in a manner, which has evolved over more than a century, the provision of fibre ducting has only become common over the last few decades. To date there has been a lack of a standard national approach to ensuring that appropriate fibre ducting is included in all infrastructure schemes.
- The impact of this is significant as it is estimated that 90% of the civils costs for the deployment of fibre ducts are linked to retrofitting, even without taking into account the disruption, congestion and lost productivity caused by digging up roads and pavements to lay fibre ducting. Deploying ducting as part of transport infrastructure schemes is not only significantly cheaper, it also minimises the disruption and potential damage to new roads/pathways as well as the additional congestion associated with retrofitting ducting.
- 16.3 Market forces as well as national planning policy are increasingly driving the delivery of full fibre infrastructure for new homes; however, this does not happen by default for transport infrastructure schemes.

- 16.4 Fibre ducts have a long life (estimated to be 30+ years) and whilst new developments are expected in future years with regards to the manufacture and configuration of fibre-optic networking technology, current fibre installations are anticipated to have a very long lifespan. With the ducts in place, in the event that fibre needs to be replaced or augmented "pulling" or blowing new fibre is a relatively low cost operation, as long as the relevant construction standards are adhered to.
- As a high growth area, with a significant number of planned transport schemes as well as a high reliance on digital technology, Cambridgeshire is a natural location to be at the forefront of developing new practises and policies to ensure that leading edge digital connectivity is available to support the local economy and underpin flourishing communities over future decades. In addition to supporting better connectivity for businesses, residents and public services, incorporating digital connectivity in all new transport schemes will help to ensure that our road, cycling and pedestrian routes are able to take advantage of emerging and next generation transport technology such as autonomous vehicles, Artificial Intelligence (AI) driven decision making and dynamic highways management.

Transport

"Creating better and greener transport networks, connecting people to homes, jobs, study and opportunity"

17 Transport Delivery Overview

						Status	
,	Project	Delivery Stage	Target Completion Date	Forecast Completion Date	Previous	Current	Change
		Tranche 1					
Ely to Cambridge	e Transport Study		Comple	eted			
A10 cycle route Melbourn)	(Shepreth to		Comple	eted			
Cambridge Sout Study (formerly	•	Design	2025	2024			←→
Cambourne to C Corridor	ambridge / A428	Design	2024	2024			←→
Milton Road		Design	2021	2020			←→
City Centre Acce	ess Project	Design	2020	2020			←→
Chisholm Trail	Phase 1	Construction	2020	2020			←→
Cycle Links	Phase 2	Design	2022	2022			←→
	Fulbourn / Cherry Hinton Eastern Access	Construction	2019	2019			*
Cross-City	Hills Road / Addenbrooke's corridor	Completed	2017	2018			*
Cycle Improvements	Links to East Cambridge & NCN11/ Fen Ditton	Construction	2018	2019			↓
	Arbury Road corridor	Construction	2018	2019			↓
	Links to Cambridge North Station & Science Park	Construction	2018	2019			↓
Histon Road Bus Priority		Design	2022	2020			\longleftrightarrow
West of Cambridge Package		Design	2021	2021			←→
Greenways Quick Wins		Construction	2020	2020			←→
Ely to Cambridge	Ely to Cambridge Transport Study		2019	2019			←→
Cambridge Sout	h Station	Baseline Study	2018	2018			\longleftrightarrow

Residents Parking Implementation	Project Initiation	2021	2021		←→
Greenways Development	Design	2019	2019		←→
Rural Travel Hubs	Project Initiation	2021	2021		←→
Travel Audit – South Station and biomedical campus	Baseline Study	2018	2019		+

18 Transport Finance Overview (to 31st January 2019)

	Original	Revised		2019 10	2010 10	2010 10	201	8-19 stat	budget us
Project	Approved Total Budget (£'000)	Total Budget (£'000)	Change (£'000)	2018-19 Budget £'000	2018-19 Outturn £'000	2018-19 Variance £'000	Previous	Current	Change
Cambridge Southeast Transport Study (formerly A1307)	141,082	140,735	0	1,397	2,150	+753			+
Cambourne to Cambridge / A428 corridor	59,040	157,000	0	2,900	2,600	-300			+
Milton Road bus priority	23,040	23,040	0	800	330	-470			+
City Centre Access Project	9,638	9,888	250	4,170	2,525	-1645			+
Chisholm Trail	9,269	9,269	0	5,320	2,320	-3,000			‡
Cross-City Cycle Improvements	8,934	8,934	0	4,500	4,000	-500			†
Histon Road Bus Priority	4,280	7,000	2,720	224	330	+106			†
West of Cambridge package (formerly Western Orbital)	5,900	42,000	0	600	1,200	+600			†
Greenways Quick Wins	0	4,650	4,650	3,000	2,000	-1,000			↔
Programme Management & Early Scheme Development	3,200	3,200	0	800	800	0			†
Ely to Cambridge Transport Study	2,600	2,600	0	892	32	-860			+
Cambridge South Station	1,750	1,750	0	925	925	0			\longleftrightarrow
Residents Parking Implementation	1,191	1,191	0	219	219	0			+
Rural Travel Hubs	700	700	0	75	70	-5			←→
Greenways Development	500	500	0	244	244	0			←→
Travel Audit – South Station and biomedical campus	150	180	30	62	92	+30			\
Total	271,274	412,637	7,650	26,128	19,837	-6,291			\longleftrightarrow

18.1 The explanation for variances is set out in the following paragraphs.

Cambridge Southeast Transport Study (formerly A1307)

18.2 There is likely to be an overspend of £753k due to revised cost forecasts for Phase 2 development work and additional surveys. The total budget has been revised in line with the higher cost option agreed by the GCP Board set out in the March 2018 Budget Setting Report. Adoption of Strategy 1 as a preferred strategy for development was agreed at the 11th October GCP Board Meeting.

Cambourne to Cambridge / A428 Corridor

18.3 An underspend of £300k is anticipated. Consultation is on schedule for February/March 2019. Post consultation analysis, currently priced in to the estimated outturn, will now be spent in the next financial year.

Milton Road - Bus Priority

As previously reported, the forecast outturn spend is £470k less than originally planned with construction costs now moving into 2019/20. Detailed design is planned to commence in Spring 2019 with mobilisation and construction starting in early 2020.

City Access Programme

An underspend of £1.65m is forecast for 2018/19, as several work streams in the City Access programme have been put back to allow for other work to be completed.

Chisholm Trail

18.6 An underspend of £3m is forecast for 2018/19 against the original spend profile due to delays in discharging pre-commencement planning conditions and finalising land deals. As the construction contract has now been awarded for Chisholm Trail Phase 1 and Abbey-Chesterton Bridge, work has commenced on site so spend has increased significantly as anticipated.

Cross-City Cycle Improvements

18.7 Early in the financial year it was identified that there would be an underspend of £500k, against the 2018/19 budget of £4.5m, as it was anticipated that there would be final contractor bills plus any minor alterations and amendments being made to completed schemes rolling into 2019/20. The situation remains unchanged with the remaining £500k to be spent next financial year.

Histon Road – Bus Priority

18.8 As previously reported, the forecast outturn spend is £106k more than originally planned. This is due to advancing the detailed design phase starting into this financial year, bringing forward costs and positively impacting potential outturn spend.

West of Cambridge Package of Interventions (formerly Western Orbital)

- 18.9 The anticipated overspend remains at £600k as the forecast outturn for the year has increased to £1.2m (from £600k) to reflect the requirement to complete the Trumpington Extension works in 2018/19.
- 18.10 Works for the extension have commenced. At this time it is not anticipated that any further changes to outturn are required.

Greenways Quick Wins

18.11 Spend in 2018/19 will now be £2m rather than £3m, as in many cases, scheme estimates have proved to be higher than the actual costs required.

Programme Management & Early Scheme Development

18.12 There has been no change since last month. Current spend is on track in line with the 2018/19 forecast of £800k.

Ely to Cambridge Transport Study

18.13 The study is now complete and all technical reports received. This project has an underspend of £860k and no further consultant costs are anticipated. The Combined Authority now has the responsibility of taking forward the recommendations.

Cambridge South Station

18.14 No spend has been incurred to date. The feasibility study has commenced with DfT overseeing the contract. The £925k budget is expected to be spent during the remainder of the 2018/19 financial year.

Residents Parking Implementation

18.15 Although minimal spend has been incurred to date, it is currently forecast that the budget will be spent in the remainder of 2018/19.

Rural Travel Hubs

18.16 The revised forecast outturn for works to be completed for the 2018/19 financial year is £70k. The project is on track to spend during the year, leaving a current forecast underspend of approximately £5k.

Greenways Development

£244,000 is the remaining budget for development of the 12 routes, all of which should be spent during the 2018/19 financial year. These include the Linton Greenway, although for operational purposes, that is being managed as part of the Cambridge South East Transport Study.

Travel Audit - South Station and Biomedical Campus

- 18.18 Owing to the requirement to carry out some significant further work on the study, to include assessing the impacts of numerous related transport schemes in the area which have progressed since the Travel Audit for South Station and the Cambridge Biomedical Campus began, the budget requirement for 2018/19 has increased.
- 18.19 The study now assesses the impact of the South-East Cambridge (formally A1307) study proposals, the West of Cambridge package proposals, the proposed new Park and Ride site close to J11 of the M11, the Cambridge Autonomous Metro (CAM), various Greenways and also the added certainty around Cambridge South Station, on the Campus area.
- 18.20 The additional work, the cost of keeping the project live with the consultants for an extra 6 months and additional internal staff costs means the total overall budget has risen to £180,000, an increase of £30,000. The remainder of the budget is expected to be spent in 2018/19.

19 Electric Bus Investment

- 19.1 GCP has been seeking to work with a bus operator to provide early adoption of low emission buses operating on routes in the city centre. This will initially be one full electric bus and one Electric Hybrid that will operate on electric only in high emission areas. This will help to provide data that will support future investment and work towards improvement in air quality in the city.
- 19.2 Officers have been in discussions with Stagecoach who are currently prepared to work with GCP to introduce these buses. The intention is to provide payment of the cost difference between a new diesel bus to each low emission variant, estimated to be up to £400K.
- 19.3 To comply with procurement rules officers carried out soft market testing with no response from the market other than Stagecoach. We then issued a notice to the market that we were considering issuing Voluntary Ex-Ante Transparency Notice (VEAT)to work directly with Stagecoach. We received no further interest.
- 19.4 For bus operators, trialling these low emission vehicles increases their risk as it involves using technologies they are not setup for and have little experience of operating. However, Stagecoach is prepared to work with GCP on this project, as we already have a relationship with them as a local operator that is part of the local bus partnership, and a shared commitment to find solutions that can improve air quality in the City.

Economy and Environment

20 Local Grid Constraints

- 20.1 The Economy and Environment Working Group has been considering the constraints that the energy grid within Greater Cambridge may pose on sustainable economic growth in the future. Officers have commissioned and worked with consultants to produce a report studying likely changes in energy demand arising from growth and the anticipated electrification of transport; the constraints on such growth potentially posed by the power grid; and potential solutions.
- 20.2 Early indications suggest that the Grid is approaching full capacity and requires significant investment to enable further connections to be brought forward. This capacity constraint has the potential to slow the delivery of housing and economic development unless action is taken to speed up the delivery of new grid capacity.
- 20.3 Our research has found that the Grid is constrained because the way that the regulatory and market frameworks operate means that local network operators are not incentivised to invest in the network proactively. Individual developers are not currently likely to invest in grid reinforcements due to either the high costs and level of risk and their limited ability to recover the costs from other developers.
- 20.4 Given the GCP's role in facilitating further sustainable economic growth, based on the initial findings, there may be a role that the GCP could play, potentially alongside other stakeholders, in alleviating these constraints on the Grid and unlocking business growth that may otherwise be stalled.
- 20.5 Work is at an early stage but an emerging recommendation is that GCP and/or other stakeholders could consider investing roughly £25m to build a new substation that would ease the pressure on the local network throughout Greater Cambridge.
- 20.6 As set out in the Future Investment Strategy paper the £25m investment would be recoverable as new large scale developments connect to the Grid, through a framework agreement with the local network operator. As part of the next stage of work, officers are working to establish the detailed repayment period.
- 20.7 In order for officers to further understand the costs, opportunities, risks and challenges, we are looking to commission UK Power Networks, who are the local network operators, to undertake a study as to how local partners could go about delivering a new substation. The cost for this work is expected to be c£40k, as referenced in section 21.7 of this report.

21 Budget Setting 2019/2020

- 21.1 The attached spreadsheet sets out a proposed GCP draft budget for 2019/2020.
- 21.2 Officers propose the following changes to previously agreed budgets:

Chisholm Trail Cycle Links

21.3 As outlined in the Chisholm Trail report [agenda item 11 refers] an increase of £5m from £9.3m to £14.3m to complete phase two of the scheme.

Developing 12 Cycling Greenways

21.4 Increase of £36k in order to complete the early development phase of the schemes.

Eastern Access

21.5 The commencement of works along the eastern corridor was agreed at the October 2018 Executive Board. As such, officers have identified a £500k budget to initiate these works during 2019/2020.

Engagement and Communications

21.6 In line with last year's budget, allocate £88k to support the central communications function of the GCP.

Local Grid constraints

21.7 An additional £40k to support the work on Grid Capacity as set out in section 20 of this report.

22 Funding Assumptions

S106 Position

- 22.1 In line with due process every financial year S106 estimates are reviewed. The S106 estimated profile assumes S106 receipts of c£45m. To date c£27m has been agreed (not all received yet), although some of it depends on being matched against applicable GCP schemes. This will not be known until the detail of the GCP's major schemes is finalised.
- 22.2 In next year's budget setting exercise an updated estimate will be made for S106 receipts. There are already discussions over a number of major growth sites, for example, Waterbeach. It is worth noting that there is a tension between the funding of strategic transport contributions and affordable housing when developers' viability assessments suggest a limit to the total amount of S106 available.

New Homes Bonus (NHB) Position

22.3 New Homes Bonus was introduced in 2011 to provide an incentive for local authorities to encourage housing growth in their areas. In 2018/19 South Cambs, Cambridge City, and the County Council all allocated 40% of their NHB allocations for the GCP area to GCP projects. It is proposed to reduce this percentage to 30% in 2019/2020. The implication

- on the GCP's budget for the 2019/2020 financial year is a reduction of £1,045m from £4,037m to £2,992m.
- 22.4 2019/2020 represents the final year of funding agreed through the Government's Spending Review 2015, and so the final year of the current approach to NHB. It is the Government's intention to explore how to incentivise housing growth, for example by using the Housing Delivery Test results to reward delivery or incentivising plans that meet or exceed local housing need. Government will consult on any changes prior to implementation. Until the outcome of this consultation is known it is assumed that NHB will continue based on the current methodology.

23 Funding Shortfall

- 23.1 The current profiled costs and funding, up to 2024/2025, across all currently identified schemes demonstrates a shortfall of c£50m. However, this assumes the GCP is successful in achieving further funding (£200m) as part of its first Gateway Review at the end of 2019/2020. Should the GCP not be successful in securing further Government funding at the end of 2019/2020 the Board will need to go through a rigorous scheme prioritisation process. However, this figure does not account for a successful second Gateway Review in 2025 (a potential further £200m).
- 23.2 It is important to note that the current profiled costs do not include any development costs for either the Science Park to Waterbeach or the Eastern Access schemes, which were agreed at the October Executive Board meeting. In addition to the currently identified funding shortfall (subject to successful Gateway one) of c£50m the Joint Assembly and Board should consider this a risk to programme delivery.
- 23.3 Should the GCP be successful in securing funding through its second Gateway Review (2025) it will unlock a further £200m of funding. Given costs for the Science Park to Waterbeach and the Eastern Gateway schemes have not yet been determined and an assumption that their scale is likely to be similar to that of our current major schemes (A428 Cambourne to Cambridge and Cambridge South East Scheme) at this time it is reasonable to consider that all the GCP's current and profiled future funding is fully committed. Subject to these schemes coming forward, it is likely that there will be additional S106 contributions allocated against GCP schemes.
- As it currently stands the GCP's projected local contributions (S106 and NHB) match fund Government grant as follows: c£70m local to £100m Government grant. The City Deal commits the GCP to match fund the Government's grant in its totality (to date £100m). As further S106 contributions come forward, the local match should increase accordingly. It is the Government's expectation that this match funding commitment remains over the course of the GCP's investments (c15years). The Board should consider this assumption as part of its planning and decision making for future investments and development.
- 23.5 Should the currently profiled schemes remain on target the Joint Assembly and Board may wish to consider the potential, in future years, to borrow against projected GCP income streams. This would be subject to formal agreement from the GCP's accountable body (Cambridgeshire County Council).

Note to reader - RAG Explanations

Finance Tables

- **Green**: Projected to come in on or under budget
- **Amber**: Projected to come in over budget, but with measures proposed/in place to bring it in under budget
- Red: Projected to come in over budget, without clear measures currently proposed/in place

Indicator Tables

- **Green**: Forecasting or realising achieving/exceeding target
- Amber: Forecasting or realising a slight underachievement of target
- Red: Forecasting or realising a significant underachievement of target

Project Delivery Tables

- **Green**: Delivery projected on or before target date
- **Amber**: Delivery projected after target date, but with measures in place to meet the target date (this may include redefining the target date to respond to emerging issues/information
- **Red**: Delivery projected after target date, without clear measures proposed/in place to meet the target date

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EXECUTIVE BOARD FORWARD PLAN OF KEY DECISIONS

Notice is hereby given of:

- Decisions that that will be taken by the GCP Executive Board, including key decisions as identified in the table below.
- Confidential or exempt executive decisions that will be taken in a meeting from which the public will be excluded (for whole or part).

A 'key decision' is one that is likely:

- a) To result in the incurring of expenditure which is, or the making of savings which are, significant having regard to the budget for the service or function to which the decision relates; or
- b) To be significant in terms of its effects on communities living or working in the Greater Cambridge area.

Executive Board: 27 June 201	9	Reports for each item to be published: 17 June 2019	Report Author	Key Decision	Alignment with Combined Authority
Cambridge Autonomous Metro	To consider the strategic outline busir	ness case and funding strategy.	Peter Blake	No	CA LTP Passenger Transport Strategy
West of Cambridge Package (M11 J11 Park and Ride)	To consider the full outline business consider the full outline business continues at Junction 11.	ase for the proposed Park and Ride	Peter Blake	Yes	CA LTP Passenger Transport / Interchange Strategy
City Access	To receive an update on progress to d consultation exercise.	ate and consider feedback from the public	Peter Blake	No	CA LTP Passenger Transport / Interchange Strategy

Cambridge South East Transport Scheme (A1307)	To consider the strategic outline busing	ness case.	Peter	No	CA LTP Passenger
					Transport / Interchange Strategy
Output of Rail Capacity Study	To receive an update and information	To receive an update and information on the output of the study.		No	CA LTP Passenger Transport / Interchange Strategy
GCP Quarterly Progress Report	To monitor progress across the GCP w information.	o monitor progress across the GCP workstreams, including financial monitoring formation.			N/A
Executive Board: 3 October 2	019	Reports for each item to be published: 23 September 2019	Report Author	Key Decision	Alignment with Combined Authority
GCP Quarterly Progress Report	To monitor progress across the GCP w information.	vorkstreams, including financial monitoring	Niamh Matthews	No	N/A
Cambourne to Cambridge Better Public Transport Project	To consider the result of further work in response to the interim report and the final Outline Business Case.		Peter Blake	Yes	CA LTP Passenger Transport Strategy
Histon Road: Bus, Cycling and Walking Improvements	To consider and award the construction	Peter Blake	Yes	CA LTP Passenger Transport Strategy	

	Executive Board: 12 December	er 2019	Reports for each item to be published: 2 December 2019	Report Author	Key Decision	Alignment with Combined Authority
	West of Cambridge Package (M11 J11 Park and Ride)	To consider detailed design proposals powers.	consider detailed design proposals prior to seeking consent to obtain planning vers.		No	CA LTP Passenger Transport Strategy
	A10 Waterbeach to Science Park	To receive an update on the project ar steps.	nd, if necessary, provide a steer on next	Peter Blake	No	CA LTP Passenger Transport / Interchange Strategy
ו	East Cambridge Corridor	To receive an update on the project ar steps.	nd, if necessary, provide a steer on next	Peter Blake	No	CA LTP Passenger Transport / Interchange Strategy
	City Access	To receive an update on the project ar steps.	nd, if necessary, provide a steer on next	Peter Blake	No	CA LTP Passenger Transport / Interchange Strategy
	GCP Quarterly Progress Report	To monitor progress across the GCP w information.	orkstreams, including financial monitoring	Niamh Matthews	No	N/A

Corresponding meeting dates

Executive Board meeting	Reports for each item published	Joint Assembly meeting	Reports for each item published
27 June 2019 17 June 2019		6 June 2019	24 May 2019
3 October 2019	3 October 2019 23 September 2019		2 September 2019
12 December 2019	2 December 2019	21 November 2019	11 November 2019

GCP BUDGET

EVDENDITUDE	Previously Agreed Budget	Proposed Budget	Actual Spend 2015/16	2016/17	Actual Spend 2017/18	2018/19	Budget 2019/20	Budget 2020/21	Future Years
EXPENDITURE	£000	£000	£000	£000	£000	£000	£000	£000	£000
Infrastructure Programme Investment Budget									
Cambridge South East (A1307)	140,735	140,735	157	175	353	2,150	7,650	6,200	124,050
Cambourne to Cambridge (A428)	157,000	157,000	268	1,485	1,871	2,600	2,600	4,000	144,176
Science Park to Waterbeach (formerly A10 North study)	2,600	2,600	67	72	391	32	2,038		
Eastern Access	0	500					500		
West of Cambridge Package	42,000	42,000	240	416	717	1,200	3,000	6,000	30,427
Milton Road bus and cycling priority	23,040	23,040	188	238	339	330	600	12,000	9,345
	7,000	7 000	400	404	40	000	1,000	4.500	744
Histon Road bus and cycling priority	7,000	7,000	199	181	46	330	,	4,500 1,388	744
City Centre Access Project	9,888	9,888	255	566	1,438	2,525	3,716	396	
Travel Hubs	700	700			84	70	150 350	508	
Residents Parking implementation	1,191	1,191			114	219	330	300	
Cycling									
Chisholm Trail cycle links	9,269	14,269	235	679	849	2,320	4,276	3,710	2,200
Greenways Quick wins	4,650	3,650			0	2,000	1,650		
Developing 12 cycling greenways	500	536			256	230	50		
Cross-city cycle improvements	8,934	8,934	257	864	2,966	4,000	847		
Cambridge South Station	1,750	1,750			0	925	825		
-	3,200	3,200	355	781	802	800	462		
Programme management and early scheme development -TBC COMPLETE - A10 Cycle route - Frog End Melbourn	553	553	355	511	42	800	402		
COMPLETE - ATO Cycle route - Frog End Melbourn COMPLETE - Travel Audit - South Station and biomedical	553	553		511	42				
campus	150	150			88	62			
Operational budgets									
Central Programme Co-ordination	2,394	2,394	111	391	728	644	520		
Engagement & Communications	339	427			251	88	88		
Skills	2,907	2,907	47	188	205	110	1,236	1,121	
Evidence, economic assessment and modelling	590	590			31	280	279		
Affordable Housing	170	170		10		125	35		
Cambridgeshire County Council costs	93	93			31	31	31		
South Cambridgeshire District Council costs	120 230	120 260			40 52	40 148	40 60		
Towards 2050	2.270	2,270		271	391	650	958		
Smart Cambridge	150	2,270	60	90	0	650	956		
COMPLETE - Cambridge Promotions Agency	400	400	60						
COMPLETE - Housing Delivery Agency				200	200				
COMPLETE - Cambridge Promotions	40	40			40				
Total Expenditure	422,863	427,517	2,439	7,118	12,325	21,909	32,961	39,823	310,942
Total Experiulture	422,003	427,317	2,433	7,110	12,323	21,303	32,301	39,023	310,342
INCOME									
City Deal grant	100,000	300,000	20,000	20,000	20,000	20,000	20,000	40,000	160,000
S106 contributions - TBC New Homes Bonus	44,500	44,500		-	7,874	2,000	2,000	2,000	30,626
NHB - Cambridge City	11,814	14,934	1,986	3,166	2,385	2,238	1,651	1,172	2,336
NHB - South Cambs	8,362	11,055	1,683	2,633	1,570	1,204	742	770	2,454
NHB - CCC	5,011	6,567	917	1,485	1,023	860	599	485	1,198
Interest accrued on grant funding	594	2,042	1	80	149	291	253	309	960
Total income	170,281	379,098	24,586	27,364	33,001	26,593	25,245	44,735	197,574
NET OVERALL GCP BUDGET	-252,582	-48,419	22,147	20,246	20,676	4,684	-7,716	4,912	-113,368



Agenda Item 7



Report to: Greater Cambridge Partnership Executive Board 20th March 2019

Lead Officer: Rachel Stopard, Chief Executive

GREATER CAMBRIDGE PARTNERSHIP FUTURE INVESTMENT STRATEGY

1. Purpose

- 1.1 In March 2018, the Executive Board considered and agreed a draft Future Investment Strategy. This paper sets out an updated Future Investment Strategy to support preparations for the forthcoming first Gateway Review. It is presented alongside the proposed 2019/20 budget.
- 1.2 The Future Investment Strategy will continue to evolve as projects develop and additional funding both match funding and government grant is identified and secured. Officers will continue to engage with the Joint Assembly and Executive Board on the Future Investment Strategy and will bring back a fully prioritised programme for consideration.

2. Recommendations

That the Executive Board is recommended to:

- (a) Note that the updated evidence base continues to demonstrate that a transformational solution is required to address the issues that pose a risk to continued economic growth and prosperity;
- (b) Agree the principles and criteria for prioritisation of future investment, which are based on the City Deal Assurance Framework;
- (c) Agree the initial prioritisation for future investment at paragraphs 5.4-5.8, and notes that, together with existing commitments, this would take overall allocated spend to c.£627m; and
- (d) Note the updated long list of projects at paragraph 5.10, and agrees to keep these under consideration while additional work to develop projects and identify match funding is undertaken.

3. Officer comment on Joint Assembly Feedback and Issues Raised

- 3.1. Details of feedback from the Joint Assembly are set out in the report from the Joint Assembly Chair. This contains details of matters discussed at the recent Joint Assembly meeting and a summary of feedback.
- 3.2. The Joint Assembly made a range of suggestions relating to the prioritisation criteria. Having considered these, officers have made some changes to the criteria to reflect these comments. These include: separating out considerations around affordability and timescales from other delivery considerations; making it clear that interaction with other proposed strategic

infrastructure schemes beyond the GCP and CPCA, and the role of transport in enabling new housing, should be considered; and noting that ability to recycle funds or raise revenue may also be a consideration. The paper has also been updated to ensure the GCP's workstreams are all appropriately referenced.

4. Key Issues and Considerations

Background

- 4.1. The draft Future Investment Strategy presented in March 2018 set out initial packages of interventions based around the Greater Cambridge Partnership's (GCP's) five workstreams: transport, smart, housing, skills, and economy and environment. This took account of the findings from Our Big Conversation, which reinforced the case for taking action across a range of issues to enable continued growth throughout Greater Cambridge. In particular, respondents said that traffic congestion and lack of sufficient, reliable public transport were key issues. Following consideration by both the Joint Assembly and the Executive Board, the Executive Board agreed the draft Strategy and that further work should be undertaken on prioritisation of different interventions.
- 4.2. Poor transport connectivity continues to be a key barrier impacting on the labour market and economic growth. In November and December 2018 the Joint Assembly and Executive Board considered papers on City Access and Bus Service Improvements, including analysis to identify and prioritise the public transport service improvements that will make public transport a better option than the car for the most possible commuters. Looking at the biggest commuter routes, both now and in the future, the analysis shows that to have the greatest impact the GCP needs to consider infrastructure and service provision on key corridors covering major residential areas and major employment sites in and around Greater Cambridge.
- 4.3. In September 2018, the Cambridgeshire and Peterborough Independent Economic Review (CPIER) published its final report. This has created a strong, shared evidence base for GCP, the Combined Authority and local authorities across the area on which to base interventions. The Review re-emphasises the importance of a package of transport and other infrastructure projects to alleviate the growing pains of Greater Cambridge: "the single most important infrastructure priority".
- 4.4. It continues to be clear from the evidence that a transformational solution is required to address the issues that pose a risk to continued economic growth and prosperity.

City Deal Assurance Framework

4.5. As part of the City Deal, the GCP agreed to use an assurance framework to decide how funding would be spent, in order to ensure the right interventions are made. It is largely based on transport objectives, sitting within a wider set of strategic objectives. Reflecting our evidence base, this is likely to mean focusing investment primarily on transport but with targeted interventions across other areas to maximise our impact on the overall goal of the City Deal – to facilitate the growth of Greater Cambridge – as well as to meet the specific aims and objectives of the other workstreams: skills, housing, smart and economy and environment.

Developing the Prioritisation Criteria

4.6. Taking the assurance framework as a starting point, prioritisation criteria have been developed. The framework's objectives have been translated into more specific and, where possible, measurable criteria that are used both at a strategic level to determine the GCP's

programme and at a scheme level to determine specific interventions. Table 1 lists the proposed prioritisation criteria.

Table 1: Suggested Criteria for Prioritisation of New Schemes

STRATEGIC				
How does the scheme facilitate City Deal	What is the likely impact on facilitating			
objectives?	economic growth of doing the scheme vs. not			
	doing the scheme? ¹			
	What is the impact on the labour market of			
	doing the scheme? ²			
TRANSPORT				
What is the impact on people's travel choices?	Overall journey time improvement			
	Impact on journey reliability			
	Capacity improvement			
	Competitiveness analysis of car vs. public			
	transport and/or active travel			
Scale of impact	Connecting how many homes to how many			
	jobs, to include:			
	- Existing homes			
	 Enabling or facilitating new homes 			
	Connecting different employment sites to			
	encourage knowledge exchange			
OVERALL				
Is the scheme deliverable?	Is the scheme affordable for GCP?			
	Is the scheme deliverable within the City Deal			
	timescales?			
	Consideration of other factors, including			
	practicality, risk analysis and stakeholder			
	support			
Is the scheme value for money and financially	Including, if applicable:			
sustainable?	- funding identified beyond the City Deal			
	period			
	- potential to recycle funds or generate			
	future revenue			
How does the scheme interact with other	In particular, alignment with CPCA schemes,			
schemes (both GCP and non-GCP)?	and interaction with other proposed strategic			
	infrastructure schemes e.g. East-West Rail			
Other policy impacts	Environmental and social distributional impacts			
	Are there any impacts that severely deteriorate			
	or negate the positive impacts?			
	What is the likely impact on air quality?			
	What is the impact on public realm? (alignment			
	with spaces and movement SPD)			

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¹ This would be measured in line with government's criteria moving to Gateway 2025.

² For transport projects this measure would use connectivity and competitiveness measures. For other projects this could include looking at number of apprenticeships supported, or number of affordable or key worker homes unlocked.

5. Initial Prioritisation and List of Potential Future Projects

Current Financial Position for the Future Investment Strategy

- 5.1. The 2019-20 budget is also presented to the Executive Board at this meeting. This sets out the latest position on our committed schemes. Taking these as a whole, current forecast spend is c.£427m against currently identified funding of £379m, consisting of £300m government grant (subject to successful first gateway review) and £79m estimated match funding. Estimated match funding currently includes approximate contributions from New Homes Bonus and Section 106.
- 5.2. There is the opportunity to secure a further £200m from government at the 2024/5 Gateway Review, but government grant alone was not intended or designed to meet the City Deal ambitions. Consideration needs to be given as to how to meet the City Deal's match funding commitment through, for example, further New Homes Bonus and Section 106 contributions. There is also an opportunity to look at how we can make best use of funding through borrowing. Work will continue in 2019 to identify match funding sources with the aim of creating a more accurate forecast and considering any risks and mitigations.
- 5.3. Subject to securing additional government grant in 2020 and 2025, the GCP should have up to £579m of estimated funding, with existing commitments of c.£427m. The Future Investment Strategy therefore prioritises spend against the remaining government grant as well as identifying further projects to be considered as further funding is identified.

Proposed Initial Prioritisation

- 5.4. At a strategic programme level, and taking our evidence base, the prioritisation reinforces the case for the GCP's current work on the key Cambridge Autonomous Metro (CAM) corridors, and for consideration of service provision as well as infrastructure investments.
- 5.5. On this basis, the first spend priority of the Future Investment Strategy would be to **deliver current infrastructure schemes on CAM corridors** including the new corridors north to Waterbeach and east towards Newmarket. Studies will shortly be commissioned to assess potential schemes and costings. An indicative allocation of £100m has been made to deliver these projects.
- 5.6. The second spend priority would be to **improve service provision on key routes** to make public transport competitive with the car, by improving journey times, service frequency, reliability and potentially other factors including cost of fares. An indicative allocation of at least c.£20m/annum is likely to be needed to deliver these improvements. To implement this, it is assumed that an ongoing income stream will be needed beyond the period of the City Deal. Consideration of revenue-raising and demand management measures is ongoing, with GCP undertaking 'Choices for Better Journeys' engagement in February and March this year.
- 5.7. The City Deal creates a once in a generation opportunity to forward fund public transport improvements before implementing revenue-raising and demand management measures, so that people have increased and improved choices for making a journey. An indicative allocation of £75m to 2031 has been made for this forward funding.
- 5.8. The Future Investment Strategy should also encompass further schemes that are needed to enable continued economic growth. As set out in the progress report, the GCP's Economy and Environment Working Group commissioned work considering the extent of **energy capacity issues** and how these could be addressed. This found that intervention is necessary to ensure that Greater Cambridge has the right energy infrastructure to continue to grow. The Future

Investment Strategy makes an indicative allocation of £25m of recoverable investment to address these issues by constructing a new 132kV grid substation. This £25m allocation would be recoverable as new large scale developments connect to the Grid, through a framework agreement with the local network operator. Officers are working to understand the detailed repayment period and how this would look against profiled costs in the future.

5.9. Together with existing commitments, this initial prioritisation for the Future Investment Strategy would take overall allocated spend – both indicative and committed – to £627m. This is £48m above currently identified funding sources although, as noted above, the £25m investment in energy infrastructure would be paid back.

List for Future Prioritisation

- 5.10. Beyond the proposed initial list set out above, the GCP will need to consider other investment sources to meet the match funding commitment and fund any further priority schemes. Schemes that could be considered include:
 - Potential to contribute funding to other priority transport schemes, for example Cambridge South Station;
 - Decision about delivery of greenways, including possible phasing, and any further cycle projects to tackle gaps in the network;
 - Further **smart projects**. To date, the smart workstream has been the most successful at pulling in match funding, thereby offering more impact for GCP investment;
 - How to best use GCP resource to meet the City Deal aspirations on housing the housing working group has previously identified opportunities to support GCP's objectives. This could include considering leveraging other funding schemes or generating investment for larger projects;
 - Any opportunities arising to support the City Deal aspirations on skills and arising from the development of the Combined Authority's skills strategy and local industrial strategy; and
 - Further proposals resulting from completion of current studies.
- 5.11. At this stage it is suggested that all of the above schemes are considered for prioritisation. However, this should not and does not prevent further schemes being considered under the criteria outlined in this paper.
- 5.12. The initial prioritisation and long list are summarised at **annex A**.

6. Next Steps and Milestones

- 6.1. The Future Investment Strategy sets out the GCP's forward programme, and will sit alongside other preparations for the Gateway Review. Work will continue throughout 2019 to identify match funding and any further work on the prioritisation of projects will be brought back to the Executive Board and Joint Assembly.
- 6.2. In addition, the GCP continues to work closely with the Combined Authority to ensure that key documents such as the Local Transport Plan and the Non-Statutory Spatial Plan are developed alongside this Future Investment Strategy.
- 6.3. The Future Investment Strategy is not a fixed document and will need to evolve beyond the period of the 2019 Gateway Review to factor in developments such as any future revenueraising schemes, as well as the developing response to the CPIER across the area. This may mean being able to prioritise more investments, and/or make investments across a greater

range of activities. It may also mean looking at whether the current assurance framework can support a greater range of activities beyond its transport focus that enable the GCP to make the most of the City Deal funding.

Annex A – Summary of Initial Prioritisation and Long List

Initial Prioritisation						
Priority	Project	Indicative Allocation				
1	Deliver infrastructure schemes on CAM corridors – including new corridors north to Waterbeach and East towards Newmarket	£400m (£100m for two new corridors +c.£300m budgeted for existing schemes)				
2	Improve service provision on key routes	£75m				
3	Address energy capacity issues	£25m (recoverable investment)				
Long list of Future Projects						
Contributions to other priority transport schemes, for example Cambridge South Station						
Decision about delivery of greenways, including possible phasing, and any further cycle projects to address gaps in the network						
Further smart projects to support City Deal objectives						

Opportunities to support City Deal aspirations on housing, including considering leveraging other funding schemes or generating investment for larger projects

Opportunities to support City Deal aspirations on skills, and/or arising from development of Combined Authority's skills strategy and the local industrial strategy

Further proposals resulting from completion of current studies



Agenda Item 8



MILTON ROAD: BUS, CYCLING AND WALKING IMPROVEMENTS FINAL DESIGN

Report to: Greater Cambridge Partnership Executive Board 20th March 2019

Lead Officer: Peter Blake - GCP Transport Director

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 aspect 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.

The Joint Assembly also welcomed the idea of the incorporation of the idea of public art into 3.3 the scheme and officers will discuss this with local residents.

Key Issues and Considerations 4.

- 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;
 - Increased bus patronage and new services; and e)
 - 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.

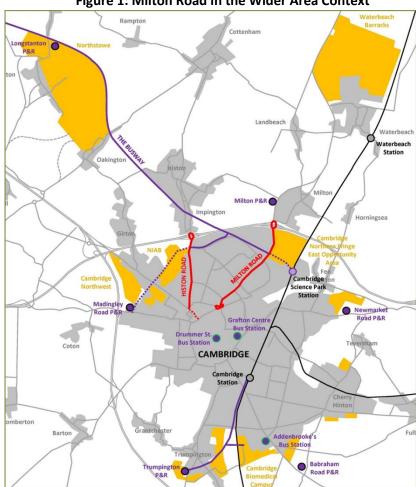


Figure 1: Milton Road in the Wider Area Context

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. 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:

April 2019 Commence Detailed Design.

October 2019 Appoint Contractor (packaged with Histon Road).

January 2020 Detailed Design Complete.

March 2020 Executive Board decision to commence construction.

April 2020 Commence construction.

Winter 2021 Scheme Complete – this is the subject of further timetabling work.

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.

List of Appendices

Appendix A	Final Technical Design Layout and Key Features	
Appendix B	Landscaping Strategy	

Background Papers

Title	Link
Milton Road Histon Road Draft Stage 1 Report 25.09.15	https://citydeal- live.storage.googleapis.com/upload/www.greatercambridge.org.uk/transport/tra
Thepore Islants	nsport-projects/Milton_Road_Histon_Road_Draft_Stage_1_Report_25.09.15.pdf
Executive Board agenda and minutes November 2015	http://scambs.moderngov.co.uk/ieListDocuments.aspx?Cld=1074&Mld=6537&Ver =4
Executive Board agenda and minutes June 2016	http://scambs.moderngov.co.uk/ieListDocuments.aspx?Cld=1074&Mld=6632&Ver =4
Executive Board agenda and minutes July 2017	http://scambs.moderngov.co.uk/ieListDocuments.aspx?Cld=1074&Mld=6856&Ver =4
Executive Board agenda and minutes	http://scambs.moderngov.co.uk/ieListDocuments.aspx?Cld=1074&Mld=6856&Ver =4
July 2018	
2018 Consultation Analysis Report	https://www.greatercambridge.org.uk/download/7595/Milton%20Road%20repor t%202019%20FINAL.docx

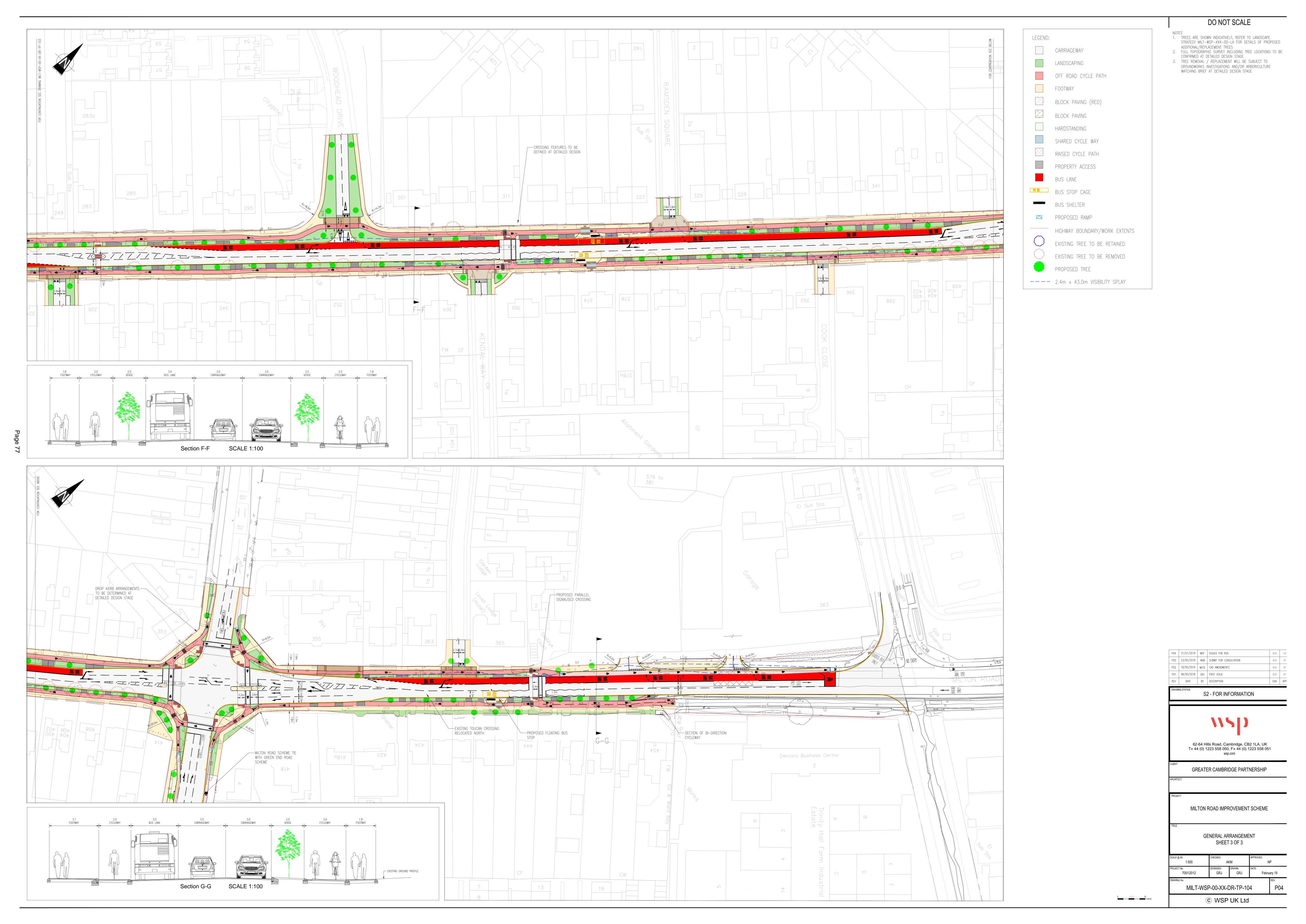




















Milton Road
Preliminary Landscape Design - Figures



Milton Road Key Plan Figure 1

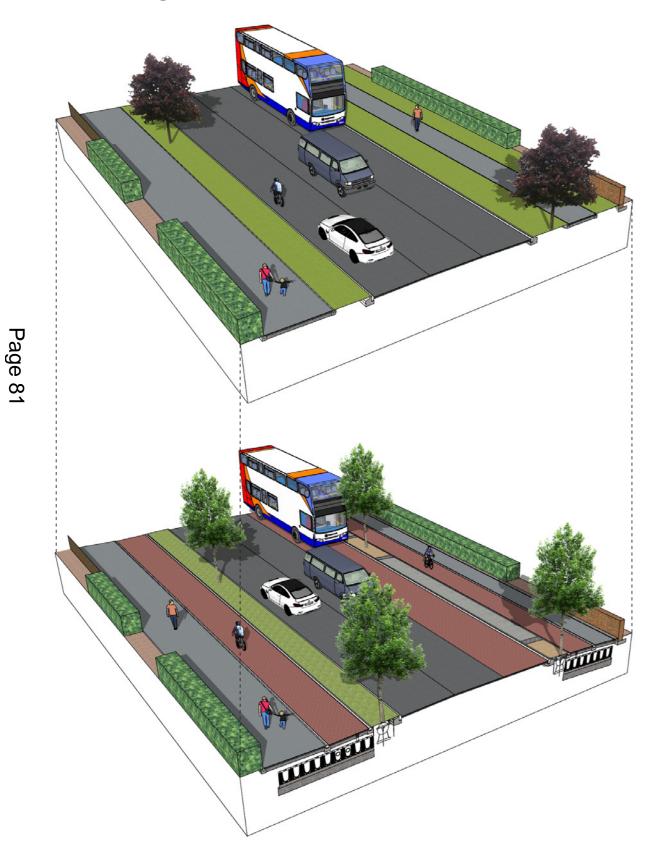




Figure 2

Overall Tree Strategy

Indicative Existing Section



Indicative arrangement of tree in grass verge with Rootspace System





Indicative arrangement of tree in hard verge with Rootspace System

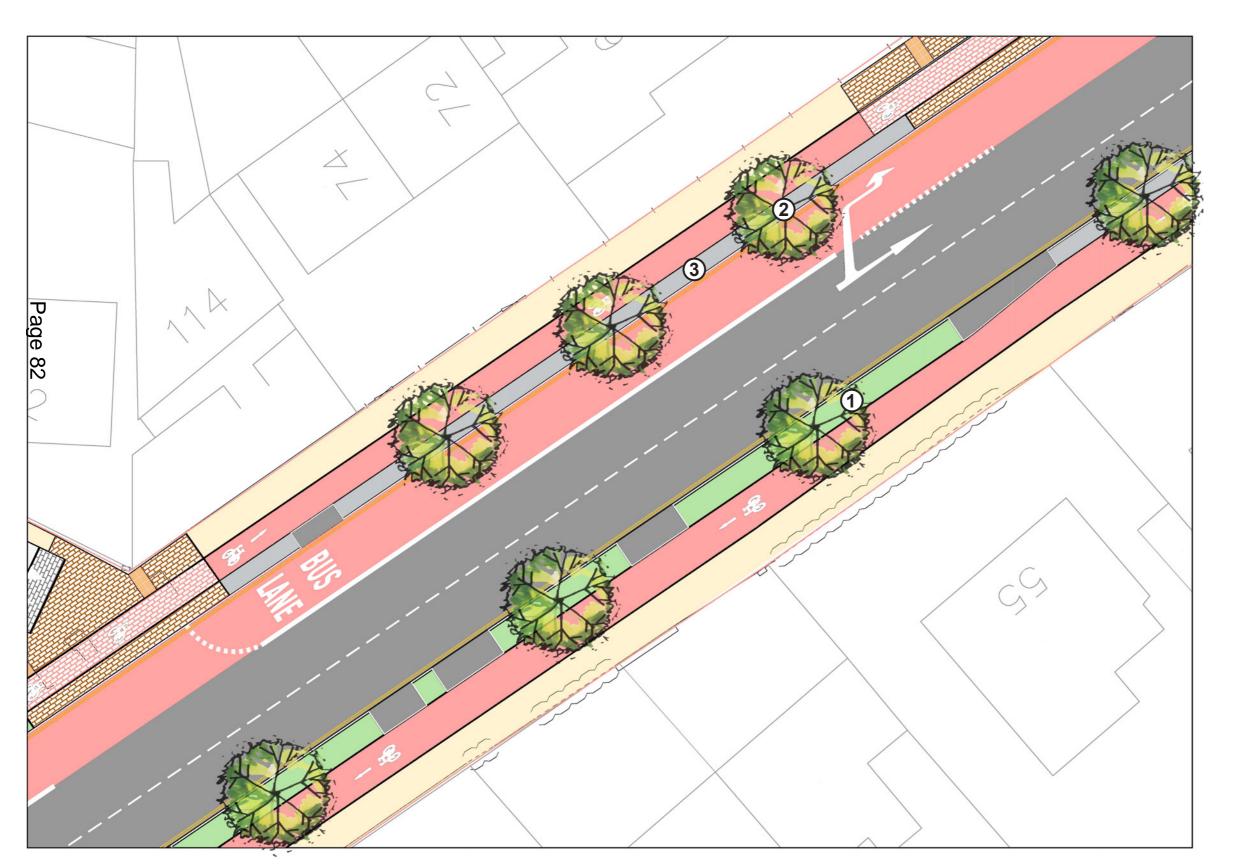
Indicative Proposed Section



Overall Tree Strategy

Figure 3

Typical Street Tree Planting in Hard & Soft Surfaces



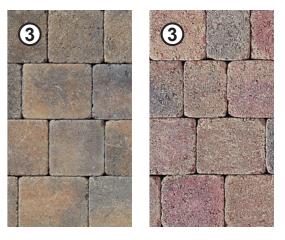










Figure 4

Elizabeth Way Roundabout

Concept Plan:



KEY:

- 1 Proposed trees (Birch) within mown grass verge
- 2 Proposed trees (Ornamental Pear) within mown grass verge
- 3 Proposed annual bedding plants
- Retained / Proposed mown grass
- **5** Retained / restructured trees/shrubs
- 6 Proposed block paving





Kings Hedges Cross Roads

Figure 5







Kings Hedges Cross Roads

Figure 6

Concept Plan:



KEY:

- 1 Proposed trees within rain garden
- 2 Proposed trees within mown grass verge
- 3 Proposed block paving







Woodhead Drive

Precedent Images:















Proposed Section A-AA



Sketch Visualisation





Figure 8

Woodhead Drive

Concept Plan:



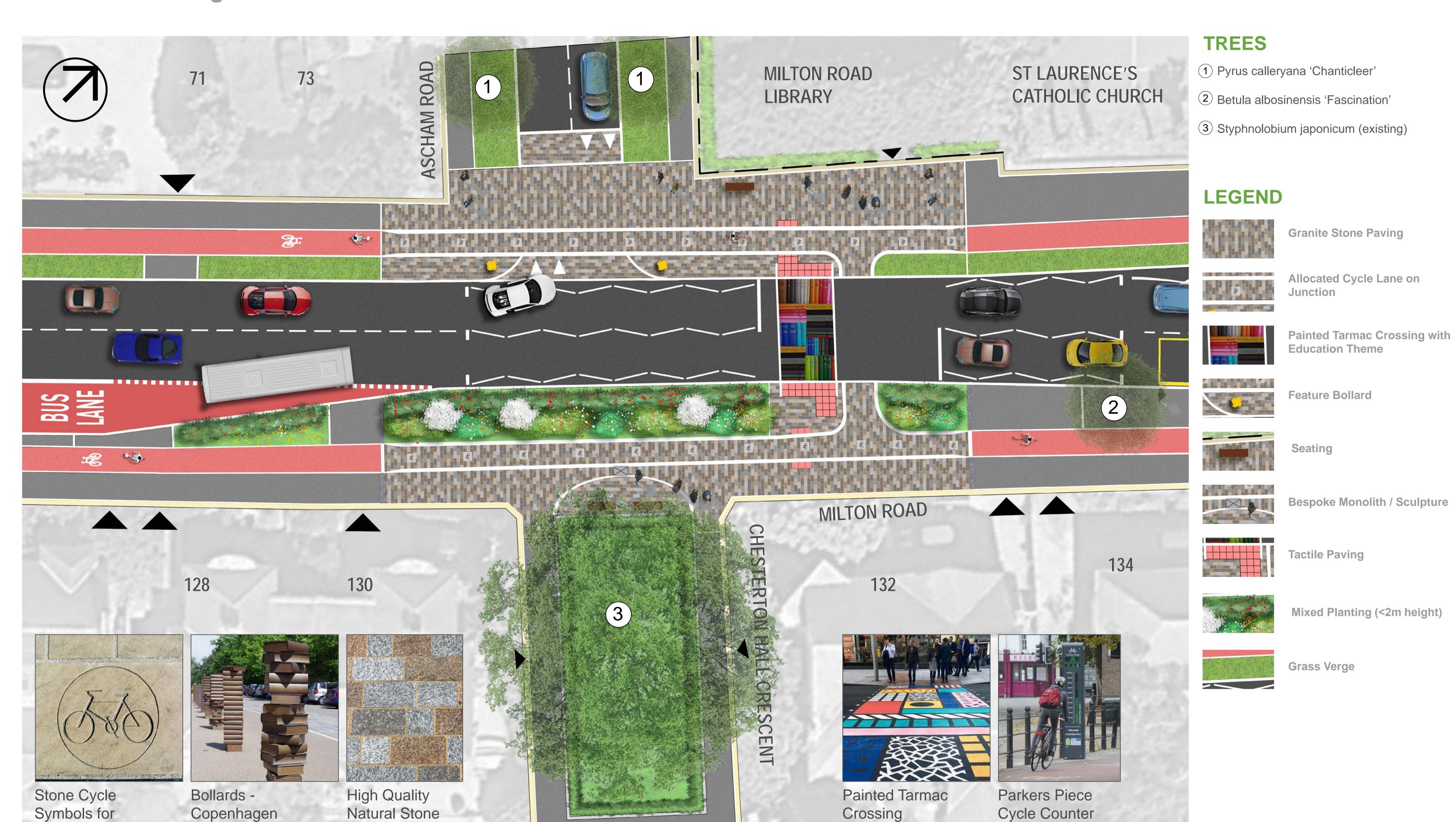
KEY:

- 1 Copenhagen crossing
- Restructured woodland
- 3 Rain garden
- 4 Mown grass swale
- **5** Planted swale
- 6 Native hedgerow



The Junction of Ascham Road

Scholars Crossing



Crossing

Figure 9



Junction Area Only

Copenhagen

Paving

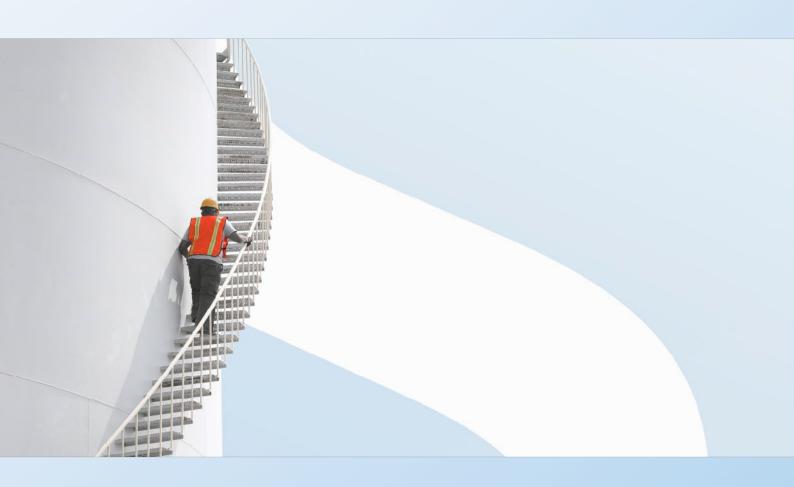
Crossing



Greater Cambridge Partnership

MILTON ROAD

Preliminary Streetscape Design





Greater Cambridge Partnership

MILTON ROAD

Preliminary Streetscape Design

TYPE OF DOCUMENT (VERSION) PUBLIC

PROJECT NO. 70012012

OUR REF. NO. 070219 AJC

DATE: FEBRUARY 2019

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QUALITY CONTROL

Issue/revision	First issue
Remarks	For Approval
Date	11/02/19
Prepared by	Andy Cocks
Signature	
Checked and Authorised by	Mike Porter
Signature	
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INTRODUCTION

This preliminary landscape design for Milton Road has been developed collaboratively with officers from the Cambridge City Council Streets and Open Spaces team, and draws upon:

- Site familiarisation visits and photography undertaken in November and December 2018;
- Relevant precedent studies of streetscape in Cambridge and the Southeast of England; and
- Engagement with the Milton Road Local Liaison Forum (MRLLF) including a workshop on the 22nd January 2019.

The landscape designs respond positively to the transport improvements and will help to bring cohesion and local distinctiveness to the overall scheme using palettes of hard and soft landscape materials that have been carefully selected.

The major interventions identified at larger nodal points are prominent streetscape proposals that will affect a significant number of users. Minor interventions at smaller junctions will noticeably improve the street scene.

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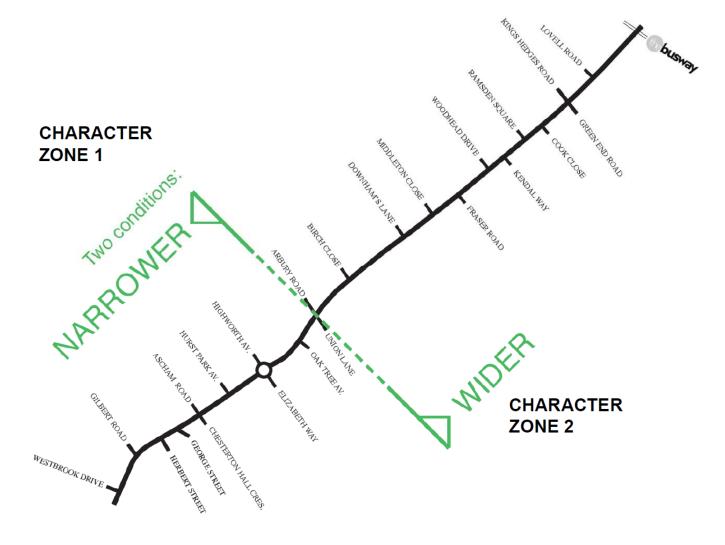


STREETSCAPE AND TREE PLANTING GENERALLY

An avenue of trees planted along both sides of Milton Road will become a defining characteristic of this part of Cambridge. Street trees will provide visual and physical separation between the proposed cycle/footway and the carriageway.

Milton Road has been divided into the following character areas based on suitability for different sizes and species of trees:

- Zone 1 = narrow section closer to the city centre
- Zone 2 = wide section towards the suburbs





Near the City Centre, the pallete of street tree species to be included are generally medium sized as follows:

Latin Name	Common Name	Estimated Height, Width (m)	Key Characteristics
Alnus incana	Grey Alder	15, 8	Broadly pyramidal form; catkins provide winter interest. Thrives in challenging sites.
Betula ermanii	Erman's Birch	12, 8	Peeling cream bark on the trunk, papery brown bar k on branches. Yellow autumn colour.
Betula albosinensis 'Fascination'	Chinese Red Birch	12, 8	Pyramidal habit with stiffly ascending branches. Yellow autumn colour. Peeling, deep orange bark turns a pale pink-white and in spring. Catkins up to 10cm long also appear in spring.
Betula utilis var. jacquemontii	West Himalayan Birch	12, 6	Brilliant white bark on the trunk and larger branches. Yellow autumn colour. Yellow-brown catkins to 12cm long open in early spring.
Prunus x Schmittii	Ornamental Hybrid Cherry	10, 4	Chinese hybrid between Prunus avium (wild cherry) and Prunus canescens; dark mahogany brown bark; conical form; pale pink flowers in spring.
Pyrus calleryana 'Chanticleer'	Ornamental non-fruiting pear	12, 6	Columnar pyramidal and oval when mature; useful for screening as leaves persist very early and late; orangey/red autumn colour. White flowers in spring.

The pallete of tree species to be planted within the suburban area are slightly larger, as follows:

Latin Name	Common Name	Height, Width	Key Characteristics
Liriodendron tulipifera	Tulip Tree	12, 8	Deciduous tree with distinctively shaped leaves turning butter-yellow in autumn; Spreading / branched form; flowers 4cm in length, tulip-shaped, yellowish-green, marked with orange within.
Tilia americana 'American Sentry'	Sentry Linden	15, 8	Pyramidal form; large leaves turn to yellow in the autumn before falling in November.
Tilia cordata 'Winter Orange'	Small Leaved Lime	12, 8	Deciduous tree that has red buds and orange winter shoots. Leaf colour in autumn is butter-yellow. Small, fragrant creamy-white flowers are borne in spreading clusters in summer.
Tilia tomentosa	Silver Lime	20, 8	Broad conical to rounded form, half-open crown; Light grey smooth bark, later with shallow furrows; underside of heart-shaped serrated leaf is snow-white.

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TREE SPACING

The design will provide approximately 200 new trees, with 127 existing trees to be removed.

Most of the existing trees to be removed are of a small-to-medium size, whereas the new trees are medium-to-large.

The objective for tree planting density is to plant at 20 m intervals on average

There may be a requirement for smaller species and/or wider spacings to maximise visibility and the road safety audit, in combination with the detailed design, may identify certain trees which will be affected in this regard.

TREES IN SOFT AREAS

Verges adjacent to the carriageway that are 1.5 m wide or greater will be seeded and most new trees will be planted in areas of soft landscape. This will promote tree establishment and ease of maintenance. Unlike the impermeable areas which make up most of the engineering design, the soft verges will:

- intercept and slow flows that would otherwise go directly into highway drainage systems;
- improve water quality by filtering;
- irrigate tree planting areas; and
- permit gaseous exchange for tree health.

TREES IN HARD AREAS

In locations where the verge is narrower than 1.5 m there will be a paved surface using warm or neutral tones to tie in with local building materials and the landscape proposals for Ascham Road junction.

Approximately 30 trees will be planted in hard paved verges.

A permeable paving material will be provided within a 1m radius of each tree.

A structural soil system will be incorporated into the highways design.

The design for the tree rooting area will be developed collaboratively with technical specialists and product manufacturers.

Careful consideration will be given to the use of non-standard highways products such as soil cells and permeable paving and the implications on underground services and statutory undertakers' operations.

Streetscape and Tree Planting Generally - Public Engagement Outcome:

- **Preferred tree species SW section:** Alnus incana / Betula ermanii / Betula albosinensis 'Fascination' / Betula utilis var. jacquemontii / Prunus x Schmittii / Pyrus calleryana 'Chanticleer'.
- Preferred tree species NE section: Liriodendron tulipifera / Tilia americana 'American Sentry' / Tilia cordata 'Winter Orange' / Tilia tomentosa.
- Preference for warm colour scheme.

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THE LOCAL CENTRE NEAR ARBURY ROAD

The design team are currently engaging with the relevant stakeholders to produce streetscape and transport enhancements in the private domain around the local centre.

It is anticipated that any agreed design changes will be a 'win-win' scenario, as the local centre is currently underperforming in streetscape terms and would benefit from similar interventions to those proposed on Milton Road.

Given that the two areas will read as one, it would be ideal if the private domain and the public realm scheme were designed and implemented together so that the movement strategy works across both areas and there are coordinated materials for the hard and soft landscaping.

Local Centre Public Engagement Outcome:

- Parade / organise parking / soften landscape / continuity / seating / raised beds / structural planting / cycle racks.
- Preferred tree species: Magnolia / Sweet Gum.

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ASCHAM ROAD

The landscape design reflects the theme of knowledge and learning in the adjacent land uses (school and library), literary/scholarly road names (Milton, Ascham) and the existing "Scholar" tree focal point. High quality natural stone paving is proposed to unify the junction and contribute to civic pride. The public realm improvements will slow down vehicular movement and create an enhanced pedestrian environment. Inclusive design measures include dedicated space for wheelchair users.

The intersection of knowledge and learning will be made explicit using a unique painted pattern at the pedestrian crossing. The design of this is shown indicatively as a collection of book spines but it is hoped that local users (school, library, residents) would be involved in future designs for the crossing so that the space is regularly refreshed and reinvigorated. Bespoke book themed bollards are proposed at the Copenhagen crossing.

The inclusive seating area beneath the scholar tree will offer shade. On the sunny side of the street additional seating includes chairs that can be moved and stored in the library overnight. Street furniture such as the 'Vestre Share' invite people to leave things that can be picked up by others and have a new life/use. Users will be encouraged to use the area both actively and passively with the potential for chance encounters as well as planned meet-ups. Reading will be encouraged.

A bespoke monolith (like the one on Parkers Piece marking the Tour de France stage start) will be provided as a prominent visual cue for pedestrians and cyclists. Consideration will be given to combining the upstanding element with wayfinding, Wi-Fi, air quality monitoring and/or an engaging piece of art that is themed appropriately.

The philosophy for the planted areas is to provide a structured mix of easily maintainable groundcover, shrubs, grasses, herbaceous and feature plants such as Cornus kousa (which is included in the proposal for the new library boundary treatment). The mixed planting will be 'backclothed' by a strip of tough shrubs including evergreens adjacent to the carriageway. The planting will not obstruct views of the scholar tree.

Two ornamental pears will be planted on Ascham Road to provide symmetry and frame views of the scholar tree. A Betula ermanii protected with a metal tree guard will be planted by the bus stop. Subject to soil testing, the detracting shrub planting beneath the scholar tree will be replaced by a more formal arrangement of shade tolerant species and potentially some bulbs to provide much needed colour. Up-lighting of the tree is also proposed to highlight this feature at night time.

At the next (detailed) stage, the designers will further consider aspects such as precise positions and types of covers, kerbs, edgings and finishes, and the crucial interface with private thresholds – this will ensure the appearance of a coordinated scheme on the ground.

<u>Ascham Road Public Engagement Outcome:</u>

- 'Book' theme / seating / speakers corner / book bollards / pop-up events.
- Preferred tree species: Existing Limes / Avenue planting on the opposite side of the Church / Magnolia Galaxy by the library / Flowering species / Tulip trees / Lime trees / Hornbeam.
- Preference for segregated cycle lane.

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ELIZABETH WAY ROUNDABOUT

The design for this area requires minimum intervention and retains the existing character and layout including predominantly mown grass with four annual bedding planting beds, as well as an existing shrub mix in the centre. This is because the current landscape has good amenity and perceived biodiversity value.

The planting beds will be relocated and realigned. The group of shrubs and small trees within the centre of the existing roundabout will be restructured (with input from the arborculturist and ecologist). This is to ensure that the outer edges appear less like a hedge whilst maximising ecological and amenity value of the mature vegetation.

There are also four new roadside verges proposed here with an area of 240m² in total. These verges are to be mown grass, with ten new street trees planted in them: 4 no. Ornamental pear on the west side and 6 no. Birch on the east side.

Elizabeth Way Roundabout Public Engagement Outcome:

- Majority preference for options 1 (do minimum) & 2 (do maximum).
- Suggested combination of these two options.

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KINGS HEDGES CROSS ROADS

The existing vegetation in this area is of low amenity value; the fastigiate Beech trees are underperforming, and the shrubs planted within the verges are predominantly covered in ivy.

The new highway design for this area provides increased area for planting which will enhance this gateway location. Ten large trees are proposed within the roadside verges, understorey planting will be provided. A rain garden is proposed outside the Co-op.

Street furniture comprises benches, public art, bicycle parking, and a sign which reads, 'Welcome to Cambridge'. The colour palette for hard landscape materials and street furniture will consist of warm or neutral tones.

Kings Hedges Cross Roads Public Engagement Outcome:

- Welcoming gateway / community hub / play / rest / food / public art / green space & meadow planting / cycling heritage / traffic calming / crossings / tree(s) in middle of road / contrasting paving / 'Welcome to Cambridge' sign.
- **Preferred tree species:** Tulip / Magnolia / Ornamental Pear.
- Majority preference for large trees.
- Preference for Tulip Tree.
- Suggested same species on all 4 corners.

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WOODHEAD DRIVE

The principal landscape design objective for this area is to enhance its amenity and ecological value. A woodland character is proposed.

The design includes two sustainable drainage features including rain gardens on each corner of the junction and planted swales which extend along either side of the carriageway of Woodhead Drive. There is a raised table Copenhagen Crossing with block paved surfaces.

The existing woodland north east of the junction is to be restructured for increased visual permeability and surveillance, as well as species diversity. Access to this area is discouraged to maintain its function as an ecological area. A dense deterrent native hedgerow will be planted along the boundary of the adjacent property to the north east.

Planting within the rain gardens and the swale closest to the woodland will evoke a naturalistic woodland theme, and will consist of a mix of herbaceous perennials, bulbs, grasses, shrubs and trees. All planting has been designed to consider low maintenance.

The swale nearer the building is to have a more manicured appearance to better correspond with the existing character of the architecture and existing shrub planting in front of the building. Hence it will comprise of mown grass and street trees.

Both swales also feature subtle mounds and depressions for added visual interest and to suggest a more naturalistic riparian atmosphere.

There will be several benches overlooking the planting, and information boards describing the Site and its objectives.

Woodhead Drive Public Engagement Outcome:

- Equal preference for medium and small trees.
- Suggested hedgerow.
- Suggested issue of surveillance.
- Species suggestions: Sorbus, Hornbeam, Cherry.
- Suggested symmetry.

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MINOR INTERVENTION AREAS

BIRCH CLOSE

The landscape proposal for this area is to retain the existing situation where possible and focus on supporting the 2 category B trees that are currently to be retained. The grassed areas are in reasonable condition and major changes to these areas may impact the roots of the existing trees and hedges. Additional street furniture will not be necessary as the space is not a focal area.

There is opportunity to plant more trees along the grass verge adjacent to the road to replace the trees that have been removed.

FRASER ROAD

The existing grass verges are to be re-seeded with general flowering lawn mix grass seed where necessary. Additionally, a mixture of bulbs such as Snowdrops, Crocus, Daffodils, & Tulips will be planted in drifts along them.

HURST PARK AVENUE

The design for this area involves seeding the verge on the Northern side with a sun-loving wildflower meadow mix such as Emorsgate EM3. Also, block paving of a similar colour to the proposed raised table is to be used within the triangular space. A cast-iron and timber bench with back and arm rests for comfort and inclusive purposes is also included. A medium-to-large-sized tree planted within hard surface of the triangular space will be provided.

KENDAL WAY

The main objectives for this space are to retain the existing Cherry tree as it is in good condition, and to replant the area beneath and on the opposite corner of the junction with an ecological, low-maintenance and scented plant community consisting of different layers, textures and warm tones. The types of plants in the groundcover layer will include a semi-evergreen clump/mat-forming species and grasses. The layer above will consist of slightly taller (max. 1m high) seasonal theme combination of herbaceous perennials and bulbs. Additionally, a timber knee rail will be reincorporated around the perimeter to deter people from walking over the planting.

MITCHAMS CORNER

The landscape proposal for this area provides additional parking and two new street trees.

Mitchams Corner Public Engagement Outcome:

- Strong preference for trees.
- Suggestion for a tree at each end.

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CONCLUSION

The proposed interventions set out above have been developed in conjunction with relevant parties. The primary objective to provide an avenue of street trees and sustainable environmental enhancement via streetscape design has been met. The long-term vision is for the proposed trees to thrive and provide a legacy. This will be achieved through implementation of the latest advances in arboricultural knowledge and techniques when considering ground preparation, planting, maintenance and management of trees.

The streetscape designs will have the following beneficial effects:

- A richer, more visually appealing and distinctive public realm;
- Greater opportunities for passive and active recreation to promote human health and wellbeing;
- Increased biodiversity; and

Wide-ranging environmental and socio-economic impacts associated with increased tree canopy cover including reduced storm water runoff; improved local air, soil and water quality; reduced atmospheric carbon dioxide; and increased property values.

NEXT STEPS

The landscape designs will be reviewed in terms of road safety, in addition to the scheme as a whole. The final design will optimise positions of trees relative to residential and commercial properties, junctions and visibility splays.

The multidisciplinary design team will collaborate on the micro-siting of trees. This will include clash detection for trees, foundations, drainage, services, and lighting columns.

Soil volumes will be calculated for each tree species and a suitable soil specified accordingly. The final tree planting details will be bespoke solutions at individual locations to ensure the proposals are as sustainable and coordinated as possible. Construction method statements for tree planting will be provided in anticipation of the various underground conditions likely to be encountered on site.

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Agenda Item 9



Report to: Greater Cambridge Partnership Executive Board 20th March 2019

Lead Officer: Peter Blake, Director of Transport

A10 FOXTON LEVEL CROSSING BYPASS AND PARKING AT FOXTON RAIL STATION

1. Purpose

- 1.1. This report sets out the review work undertaken on the Foxton Level Crossing and rail parking options in the vicinity of Foxton station.
- 1.2. The Executive Board agreed in February 2018 to a review of the Network Rail GRIP 2 work undertaken on the Foxton Level Crossing and further work to be undertaken towards the development of 'Outline Business Case' for a preferred option for a bypass of the crossing and the exploration of the opportunity for Foxton Station to act as a Transport Hub with a Park and Rail facility for onward rail trips into Cambridge and Cambridge North stations, and the proposed, future Cambridge South station.
- 1.3. Reducing journey time delays and promoting local rail services supports the Greater Cambridge Partnerships (GCP) vision of creating better, greener transport networks, connecting people to homes, jobs and study, and supporting economic growth.

2. Recommendations

- 2.1. The Executive Board is recommended to:
 - (a) Support the concept of additional rail station parking and the promotion of sustainable travel options at Foxton Station, and agree to consult the public on proposals and as part of that process, to develop an Outline Business Case.
 - (b) Note the report on removing the Foxton Level crossing but, recognising the wider traffic issues along the A10 corridor, refer the matter to the Combined Authority for its consideration as the Strategic Transport Authority for the area.

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 discussed the strategic priority of the Foxton level crossing and the Transport Hub schemes and the alignment with the GCP vision of promoting sustainable modes of travel. Subject to the Transport Hub being deliverable as a discrete project from the level crossing bypass then they were generally supportive of the approach.

- 3.3 A question at the Joint Assembly was raised regarding the impact of Foxton Level crossing on the rail capacity into and out of Cambridge. Network Rail have stated that the restriction in this location is caused by line capacity rather than level crossings. The Foxton Level crossing in isolation does not limit capacity of the overall rail service.
- 3.4 The issue of the level crossing's impact on the proposed Park and Rail site access was questioned by the Joint Assembly. Traffic surveys undertaken at the level crossing bypass as part of the development of the Strategic Outline Business Case demonstrate that the two schemes can be developed independently of each other. The issue of access / egress from any Park and Rail site will nevertheless remain an important consideration as part of scheme development.

4 Key Issues and Considerations

Background

- 4.1 The A10 south is currently heavily congested during the peak hours and the level crossing causes a significant delay to private vehicles commuting onwards to Cambridge. Delay, caused by the down time of the rail barrier, at the level crossing in the peak hour can be between 15 20 mins. Further services on the rail line stopping and passing through Foxton station are proposed by Network Rail and this will result in further delay at the level crossing.
- 4.2 Cambridge has seen above national average growth in rail passengers over the past decade including along the Cambridge line between Royston and Cambridge. With 62% growth at Cambridge station and 47% at Foxton, demand is continuing to grow on the rail network. Foxton Station currently has no private vehicle car parking and there is observed fly parking in the village using the rail line to commute into Cambridge and London.
- 4.3 The A10 currently takes around 16,000 vehicles per day in the Foxton area. The presence of a full barrier level crossing significantly limits the capacity of the route. Currently the Shepreth Branch line typically takes four trains an hour in each direction, one or two which stop at Foxton. The spacing of trains and volume of traffic means that queues do not always have the opportunity to clear the level crossing in peak periods.
- 4.4 Growth in traffic volumes forecast and the increase in service's using the Kings Cross line, stopping or passing through Foxton, will result in an increase delay and congestion at Foxton level crossing. Additional planned trains and the potential for East West Rail, including expanding the rail line, could further impact upon journey times and reliability of the route.
- 4.5 The Foxton crossing had previously been developed to GRIP 2 stage which established the scope of the scheme and confirmed feasible options for the route. The Executive Board agreed to develop this work to further explore the case for removing the level crossing.

Traffic Volume Projections

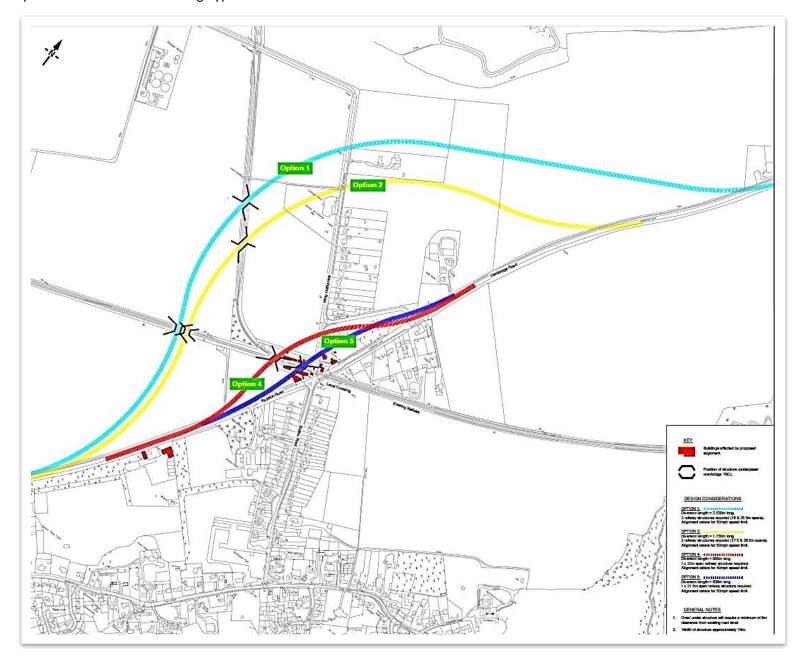
- 4.6 Traffic growth across South Cambridgeshire is forecast to increase generally by almost 40% in the morning peak by 2031, meaning time spent in congestion will more than double.
- 4.7 On the A10 in the Foxton area, traffic flows are predicted to rise between 23% (TEMPRO growth) and 40% (wider South Cambridgeshire peak hour growth) to a total of up to 22,000 vehicle movements over a 24 hour period by 2031 with the removal of the level crossing. This growth will impact upon local communities and the wider transport network with careful management and mitigation.

5 Options

Foxton Level Crossing

- 5.1 The Options Assessment for the removal of the level crossing involved assessing eight bypass options each against a range of Strategic, Economic, Financial, Commercial and Management evaluation criteria taken from the DfT WebTAG Business Case Themes. To support the assessment process, high level desktop studies of current ecology, landscape/heritage value, geotechnical and air quality assessments, within the alignment areas of the eight bypass route options, were undertaken.
- 5.2 Of the eight bypass route alignment options assessed, four received a positive assessment score and are outlined in Figure 2 below. All four route alignment options would require further appraisal for provision of either an overbridge or underbridge infrastructure.
- 5.3 Assessed alignment options of Foxton level crossing bypass can be seen in Figure 2. The range of costs reported for the options are between £15,500,000 and £40,000,000 but vary significantly as some options involve bridges or underpasses. In general terms an underpass is a more expensive option. The BCR of the medium Option (Option 4), without a footbridge, has a BCR of 1.76. This reflects as a 'Medium Value for Money' (VfM) category using Department for Transport criterion.

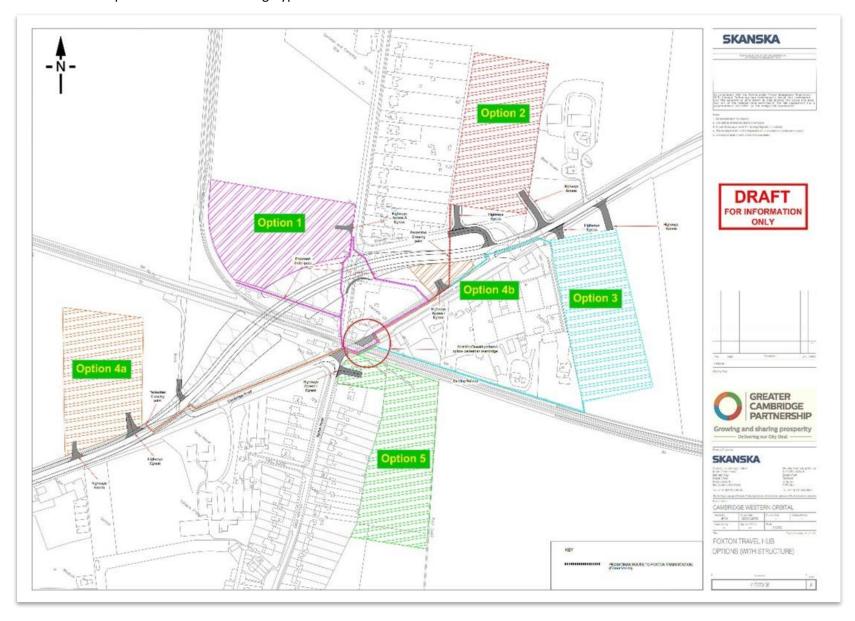
Figure 2: Alignment options of Foxton level crossing bypass



Foxton Rail Station Parking

- 5.4 Foxton Park and Rail Executive Board Report (Mott MacDonald) summarises the conclusions from the options assessment carried out to date. This concluded that Foxton would be the best site for a Park and Rail site between Royston and the M11 providing commuter journeys into Cambridge.
- 5.5 The scheme has progressed through a series of optioneering steps. The aim of this process was to determine an appropriate location for the proposed Park and Rail scheme. The process began by identifying the need for intervention and investment in a Park and Ride transport hub along the A10 Royston to Cambridge.
- Location specific options were initially identified based on the ability to provide sufficient land to accommodate the estimated number of required parking spaces as modelled. Additional options were identified that included an option to utilise land already in the ownership of CCC and an option to the south of Foxton Station. The options were assessed against each of the selected themes based on the appraisal of the criteria and sub-criteria. The option assessment process considers 6 potential sites in the vicinity of Foxton. Assessed locations for a Park and Rail Transport Hub at Foxton can be seen in **Figure 3**.
- 5.7 Demand modelling has been undertaken and forecast that there is a significant suppressed demand for a Park and Rail Transport Hub at Foxton to cater for approximately 400 spaces which could rise to 715 spaces in 2031 (including demand generated from the opening of Cambridge South Station). The range of costs reported for the options are between £4,290,000 and £5,580,000 (a further breakdown of the costs are available in the SOBC report). Based on the initial BCR values for all four short listed options, the Foxton Park and Rail Transport Hub scheme has a BCR above 2 falling into a 'High value for money' category using Department for Transport criterion.

Figure 3: Foxton Park and Rail Options with Level Crossing Bypass



6 Next Steps and Milestones

- 6.1 Public Consultation would commence in September 2019.
- 6.2 Development of an Outline Business Case as appropriate.
- 6.3 Refer the work developing proposals for removing the level crossing to the Combined Authority, as the strategic transport authority for the area, in the context of a wider A10 review

7 Implications

7.1 Local members, statutory stakeholders, Parish Councils and some local stakeholders have been consulted.



Agenda Item 10



Report to: Greater Cambridge Partnership Executive Board 20th March 2019

Lead Officer: Peter Blake, Director of Transport

CAMBRIDGE BIOMEDICAL CAMPUS: TRANSPORT NEEDS REVIEW

1. Purpose

1.1. In 2017, The Greater Cambridge Partnership (GCP) Executive Board identified the need to establish a robust evidence base for the campus area to help inform future investment and planning decisions for the Campus partners, the GCP and other key stakeholders including Local Authority partners. The Executive Board is asked to consider and comment on the emerging outputs and proposals from the resulting Cambridge Biomedical Campus (CBC) Transport Needs Review. The full report and supporting documents have been published on-line and are accessible via the links on the covering agenda.

2. Recommendations

- 2.1. The Executive Board is recommended to:
 - (a) Note the findings of the Cambridge Biomedical Campus Transport Needs Review study, and recognise the urgent need for action in the short medium term;
 - (b) Request officers work with the Cambridge Biomedical Campus partnership, at a senior level, to develop an action plan of short and medium-term interventions based upon the recommendations of the Transport Needs Review study;
 - (c) Receive a further report on an agreed prioritised delivery programme following discussions with the Biomedical Campus partners.

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 extremely supportive of the study and commented that work needs to start on mitigating impacts as soon as possible. There was a meaningful discussion over the extent to which CBC needed to invest in this, the need for prioritisation and clarity on accountabilities.
- 3.3 Officers recognised all of these comments and will ensure they are incorporated as part of the next phase of work.

4. Key Issues and Considerations

Background

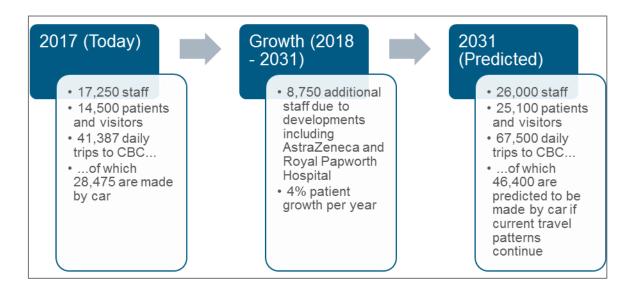
- 4.1 The CBC on the southern edge of Cambridge, is a major asset in the development of the UK's life science research, teaching and healthcare industries. It contributes to Greater Cambridge's position as one of the UK's most successful cities in terms of economic indicators, such as productivity and knowledge-based jobs. This success is attributed to being a networked and connected city region, characterised by world-leading innovation. AstraZeneca will shortly move into its new corporate headquarters and global research centre at CBC. Royal Papworth Hospital and the life-science company Abcam will also be relocating to CBC in the near future. Further growth is anticipated to 2031 and beyond, with this development serving to increase the number of staff and visitors to the site. Economic success to date has been widely celebrated in the Greater Cambridge Region, but it is now contributing to transport congestion that threatens to choke further economic growth and compromise high quality of life. The CBC is a key part of this. There are already concerns about access to, and congestion around, the site. The level of near-term and long-term growth will lead to significantly increased travel demands from patients, visitors and employees. It is critically important that transport access to this site meets demand, so that this investment and economic growth is supported.
- 4.2 The CBC Transport Needs Study has been developed with key partners and the level of stakeholder involvement in this study has been incredibly positive, with full involvement from partners at CBC including Cambridge University Hospitals Trust and the University of Cambridge, as well as South Cambridgeshire District and Cambridge City Councils.
- 4.3 The focus of the study has been on the impacts of the significant, larger infrastructure proposals being brought forward by the GCP and the Cambridgeshire and Peterborough Combined Authority (CPCA), on the CBC area. The study has assessed the likely impacts of these interventions and undertaken an evaluation as to what they mean for the Campus going forward and when any benefits may be realised. It has also looked at the strategic fit of a proposed new station at Cambridge South adjacent to the CBC, options for this new station, the forecast passenger demand, potential economic benefits and what other local transport measures are likely to be required to ensure that it functions most efficiently, whilst also maintaining the CBC aim of being a sustainable travel campus.
- 4.4 The study itself is split into 3 parts:
- 4.5 **Part 1** of this Study looks at the evidence on transport demand and supply, to build up a picture of what travel to CBC looks like now and what it could look like in 2022 with the planned growth. It identifies Potential Interventions to help manage growth in the short term, including improving access via foot and cycle, improved wayfinding, and addressing gaps in current bus service provision.
- 4.6 **Part 2** looks at transport demand and supply from 2022 to 2031 and how this could change as a result of the proposed Cambridge South Station. It also identifies additional Potential Interventions in the longer term, and Measures that could help to support access to the proposed Station.
- 4.7 **Part 3** assesses the impact of planned measures being taken forward by the GCP and CPCA (including Cambridge South Station) as well as the other Potential Interventions identified in Parts 1 and 2, in terms of highway access to CBC. Part 3 also assesses the impact of current,

proposed phasing for these schemes on the level of highway trips to the CBC site and the subsequent impact on the car parking both on and off street for the Campus.

- 4.8 The planned GCP schemes assessed and tested through this study include:
 - Cambridge South East Transport Study CAM Phase 1;
 - Greenways (Fulbourn, Linton, Sawston, Melbourn);
 - Chisholm Trail;
 - Cambourne to Cambridge CAM Phase 1;
 - West of Cambridge Package;
 - Cambridge South West Park and Ride (near to j11 of M11);
 - Expansion of Trumpington Park and Ride;
 - Cambridgeshire Autonomous Metro (CAM);
 - Cambridge South Station;
 - o The other Potential Interventions identified in this Study; and
 - Demand management measures to encourage use of sustainable modes of transport.
- 4.9 In terms of the 'other potential interventions' proposed through this study, these have focussed on sustainable forms of transport, such as Walking, Cycling and Public Transport, as well as Behavioural Change programmes, and closely tie into the aims and objectives of the CBC's own Transport Strategy. Where the evidence has suggested potential for a need for larger, so called 'big ticket' interventions for the Campus area, these have aligned with the list of planned schemes mentioned above.

Growth

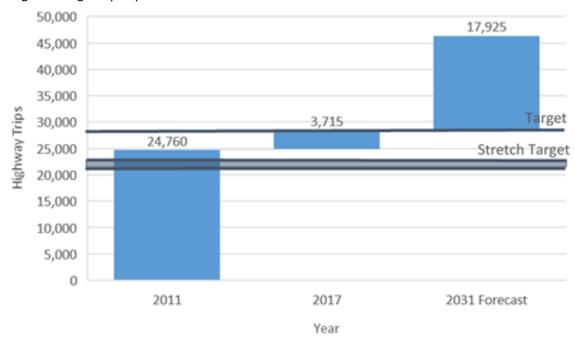
4.10 The growth proposed on site is set to substantially increase the demand for travel to the site, exacerbating the existing transport issues, such as congestion on the surrounding road network, car and cycle parking availability on site, displaced car parking on surrounding streets, gaps in Public Transport provision and low levels of walking as a mode share. Some of the key figures are shown in the figure below:



Targets

- 4.11 In order to helpfully assess the impacts of any proposed interventions on the Campus area, the study has assumed two key targets for highway trip reduction:
 - o Baseline Target: Maintaining traffic at 2017 (current) levels up to 2031; and
 - Stretch Target: A 10% to 15% reduction in traffic from 2011 levels, which is aligned with the GCP City Access Strategy.

Target for Highway Trip Reduction



- 4.12 The graph above shows the number of highway trips in 2011 was 24,760, it also highlights that the subsequent increase to 2017 (the study baseline) was an additional 3,715 trips and that the forecast is for a further increase of 17,925 trips to 2031. In order to maintain traffic at the 2017 (baseline) levels **Target**, the additional 17925 car trips forecast to 2031 will need to be removed from the network and replaced with trips made by sustainable modes of travel.
- 4.13 To hit the **Stretch Target** of the 10-15% further reduction on baseline levels, the number of car trips to remove is even higher, up to 25,354 to remove/replace with sustainable modes. This would deliver a mode share of Car:Non-car of 31%:69%.
- 4.14 Although these are challenging targets, it should be noted that most of the growth is yet to happen, and will also happen incrementally over the next 12 years in line with development coming forward. It is also important to state that there is a window of opportunity to provide sustainable alternatives before car-based travel patterns are established.

5. Options

5.1 As the Campus grows, highway trips are expected to continue to grow up to 2031. Much of the growth is happening in the first 5 years, with the likes of Royal Papworth Hospital, Astra Zenica and Abcam due to move into the Campus from 2019.

Short Term Proposed Interventions

- In advance of some of the larger GCP and CPCA schemes coming online, the study has proposed some short term measures to help deal with the initial growth in the years to 2022. These have focussed on sustainable modes of travel and are closely aligned with projects already proposed within the CBC's own Transport Strategy. There is a need to carry out further scheme development work in the near future to turn these from high level, 'long list' interventions, into worked up and costed proposals. Appendix A covers these in more detail. These include:
 - Walking and cycling measures.
 - o Public Transport and Park and Ride measures.
 - o Behavioural change and incentivised travel measures.
- 5.3 The study also identified an urgent need for a direct bus or shuttle bus from the Papworth area specifically for the transition of staff moving across to the Campus as Papworth moves on to site. Likewise, increased Park and Ride capacity for staff accessing the Campus is identified in the study as needed in the first 5 years (to 2022) which supports ongoing work by the GCP. The study highlighted three areas where increased Park and Ride capacity could and should come forward:
 - o At the existing Trumpington site.
 - At the existing Babraham Road site.
 - o A need for a new, large Park and Ride site to the south-west of the Campus.

Longer Term Proposed Interventions (without Cambridge South Station)

- As well as supporting and assessing the impacts of the larger infrastructure proposals being taken forward by the GCP and CPCA, the CBC study has also assessed gaps in the current and future travel supply and demand to come up with high level, potential interventions to support movement to, from and within the Campus, in the event of no new station at Cambridge South.
- These potential interventions are covered in more detail in Appendix B and range from Public Transport Proposals, such as bus and Park and Ride improvements, to options for altering car parking, altering work and shift patterns and also 'softer measures' such as behavioural change initiatives, car clubs, lift sharing and journey planning tools. There are also more walking and cycling proposals, building on those covered for the short term need.
- These schemes will need further scheme development work in the near future to turn these from high level, 'long list' interventions, into worked up and costed proposals. There may also be a requirement to carry out a prioritisation exercise to identify which of these potential schemes can best support the related GCP and CPCA schemes, including Cambridge Autonomous Metro (CAM), and therefore deliver the most benefit. These schemes should also be considered as part of the WITH station scenario package of measures, and be developed accordingly.

Cambridge South Station

5.7 One of the key aims of the CBC study was to analyse the strategic fit of the proposed new Cambridge South Station, along with its likely impact on the Campus area and what local transport measures may be required in order to help it operate to its full efficiency. The actual development of the station is work being carried out separately to this study, by Network Rail, the Department for Transport (DfT), Combined Authority (CPCA) and GCP.

- 5.8 Rail as a mode share for CBC staff is currently low. The rail trips generated by Cambridge South Station will be a combination of abstraction from other stations, modal shift from alternative modes and entirely new trip making.
- 5.9 The study highlights the significant impact a station at Cambridge South could have on trip generation to the area. The forecasting estimates that 5,800 return trips are predicted to use Cambridge South Station daily. This is broadly equivalent to the total demand for Ely and Royston Stations combined, and would make the station the third busiest in Cambridgeshire, after Cambridge station and Peterborough station.
- 5.10 The Study lists numerous potential transport measures that could come forward as part of a package to complement the new station. Appendix C covers these in more detail. These include:
 - o Potential designs and layouts for the station building.
 - Preferential access arrangements for the new station (for all modes) taking into account key locations on Campus, desire lines and requirements for mobility impaired users.
 - Pedestrian and cycle measures, such as cycle parking and pedestrian crossings, cycle hire and the need to transport cycles on trains.
 - Links to the existing public transport network including any requirements to alter public transport routing, the potential for new services, interchange options, plus any timetable and ticketing alignment.
- 5.11 The study has highlighted a wide range of factors that will need to be managed both in terms of Station design, layout, development and transport infrastructure beyond the Station. The GCP could consider further scheme development work, alongside Cambridge City Council as local planning authority, to set out the requirements and aspirations in more detail.

Impacts of Proposed Measures

- 5.12 The potential impact of the proposed measures has been estimated using data from the GCP projects, case studies of similar schemes, the available demand information as well as mode split and census data. The impact of Cambridge South Station and CAM have been measured using two scenarios for both schemes, a 'basic' level of demand and a 'maximum' level of demand. The approach to calculating the impact of CAM on highway trips to CBC is based on the Greater Cambridge Mass Transit Options Assessment Report (OAR) (January 2018):
 - Basic demand for the Station: based on previous forecasts using standard rail industry methods, updated to reflect growth on Campus.
 - Maximum Station Demand: a bottom-up approach using CBC staff and patient catchment data based on the assumption that all who could reasonably travel to CBC by rail would do so.
 - Baseline demand for CAM: a 35% increase in public transport demand, compared to 2015 levels, to represent a modal shift delivered by an improved transit system.
 - Maximum CAM Demand: a 40% capture of relevant highway demand to represent 40% of all existing highway trips to CBC transferring to public transport. The CAM

Study noted that this level of mode shift "would be unprecedented" and represented "the very upper end of what any scheme could realistically achieve".

- 5.13 The headline outcomes for the impacts of the various proposed measures are:
 - A package of measures is required to help hit the targets for traffic reduction. The
 measures proposed for the longer term in the event of no Cambridge South Station,
 should also form part of the package of measures to help deliver the growth and
 mitigate the traffic impact in the WITH Cambridge South Station scenario.
 - The planned GCP schemes, Cambridge South Station and 'other' proposed interventions to complement these (which have arisen through this study) go some way towards achieving the baseline target of keeping traffic levels as they are (a reduction of 17,925 car trips by 2031) from around 2022. Though it should be noted that initial growth on site such as Astro Zeneca, Papworth and Abcam will occur in advance of this, meaning an increase in traffic until 2022.
 - Cambridge South Station and a new Park and Ride to the South-West of the city (close to j11 of the M11) are shown to be the first related 'major' schemes to begin to have a significant impact on highway demand.
 - However, in order to fully meet the baseline target throughout the period until 2031, accompanying demand management measures are required.
 - To reach the stretch target, of a reduction on today's traffic levels of 10-15%, the 'maximum' CAM and 'maximum' Cambridge South station schemes are required (including demand management measures).
- 5.14 It should be noted that the demand management measures assumed within the CBC study relate to restricting car parking availability on Campus. Other options for demand management measures were considered but have not been assessed.

Timeline of Impacts

- 5.15 The analysis within the study looks at 2031 as an end-point, in line with the current Local Plan horizon for growth. However, between now and 2031, there will be an on-going cycle of growth coming forward at the Campus, to be delivered in different phases and on different timescales. Simultaneously over this time frame, numerous transport schemes are also scheduled to come forward for delivery intermittently, which will impact upon trips to the Campus area.
- 5.16 Part 3 of the CBC study has used a spreadsheet model to understand the impact of the proposed transport schemes, listed above in section 2.7, mapping this against the current timeline for the growth, in order to highlight when the individual and cumulative benefits of these schemes will be realised.
- 5.17 This analysis shows that Highway trips to CBC will rise until 2022, with the schemes scheduled to be delivered earliest, such as the South East Cambridge Study, new Park and Ride capacity to the south-west and any focussed walking and cycling interventions partly mitigating the impact of growth (though not quite hitting the baseline target of maintaining traffic at 2017 levels. The graph in Appendix D covers this.

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¹The Greater Cambridge Mass Transit Options Assessment Report (OAR) (January 2018)

- 5.18 The highlights are that from around 2022/2023, when some of the largest impact schemes, including Chisholm Trail, Cambridge South Station, a new Park and Ride site close to J11 of the M11, and Cambourne to Cambridge (CAM Phase 1)etc. are in operation, the baseline car trip reduction target is achieved for a period of time. However, the cumulative impact of further growth on site in the mid 2020's is predicted to once again cause traffic to exceed the Target level from around 2027.
- 5.19 The study also shows that in a scenario where 'maximum' CAM occurs alongside a 'maximum' Cambridge South Station with accompanying parking restraint, these have potential to further reduce highway demand and meet the Stretch Target towards the end of the period (2031).
- 5.20 The timing of any parking measures is critical to ensuring the greatest impact of Cambridge South Station and CAM.

Impact on Car Parking

- 5.21 Restricting the availability of car parking on Campus has been tested as a potential demand management measure. A reduction in highway trips leads to a reduction in parking demand at CBC, and creates headroom in the parking supply, which should negate the need to construct future planned car parks on the Campus. The analysis shows that measures such as Cambridge South Station and a new Park and Ride to the South-West of Cambridge (near M11 J11) have a significant, positive impact in the parking demand and supply on-Campus.
- 5.22 The study also discusses the need to align onsite car parking with measures and policies to tackle off-site ("on-street") parking. Plans for on-street parking controls, throughout the city, including in the CBC area, are being taken forward by Cambridgeshire County Council (CCC) with input and funding from the GCP. These will need to be phased accordingly with any potential transport interventions, especially any on-site parking reductions, to limit the displacement of those who park on site currently, on to the surrounding streets. The sustainable travel alternatives to parking will also need to be in place prior to reductions in any parking capacity in order to maintain accessibility to the Campus. Without these measures, the availability of on-street parking will limit the effectiveness of other interventions in encouraging modal shift away from private car.

Emerging Recommendations

- 5.23 Details of emerging recommendations are set out below:
 - 1. It is critical that the GCP schemes identified as having an impact on the CBC are kept to programme to address short-term continued highway traffic growth, mitigating negative impacts on Campus operation and quality of life.
 - 2. Key stakeholders, including the GCP, the CPCA, CCC, the District Councils, the Rail Industry and partners at the CBC should collaborate to coordinate phasing of planned schemes, growth and any demand management measures, in order to have the maximum impact in the right timescales.
 - 3. Carry out further scheme development work on the proposed measures identified to inform the development of the Cambridge South Station, building on the requirements and opportunities identified in this Study. This should focus on maximising the success of the Station in encouraging sustainable travel to CBC.
 - 4. Further Scheme Development work on the other Potential Interventions identified in this Study is required. This could include an exercise to identify possible 'quick wins' to

- help address the initial highway growth, and also a prioritisation exercise to identify which of these potential schemes can support the related GCP and CPCA schemes and therefore deliver the most benefit. This should commence as soon as possible.
- 5. There is a need to do a piece of work to understand how and when on-street parking controls in the vicinity of CBC can be introduced, and to prioritise them as appropriate. The timing and phasing of any controls to on-street car parking needs to be very carefully considered, to avoid spreading the parking problem elsewhere and to ensure that accessibility to the CBC, particularly the hospitals located there, is not negatively impacted.

6. Next Steps and Milestones

- 6.1 This report is to update the Executive Board on the findings of the CBC Transport Needs Review, including reinforcing the case for the existing Greater Cambridge Partnership programme of investment and further supports the case for the development of the Cambridge South Station.
- 6.2 It is essential that plans to improve transport across the wider CBC are delivered. The GCP will continue the dialogue with the CBC partnership, at a senior level, to cement joint working and secure delivery of robust planning and implementation of the recommendations of the CBC Transport Needs Review Study.

List of Appendices

Appendix A	List of potential short term interventions from the Part 1 study		
Appendix B	List of potential longer term interventions for access to CBC from the Part 2 study		
	(inc. in a without Cambridge South Station scenario)		
Appendix C	List of potential longer term interventions for access to CBC from the Part 2 study		
	(in a with Cambridge South Station scenario)		
Appendix D	Graph depicting the timeline of the impact of growth and interventions on the CBC		
	area (to 2031)		

Appendix A

Part 1 Potential Interventions (short term)

These are high level solutions and should be treated as a recommendation for further development and assessment of benefits and costs from Part 1 of the Study.

Within each of the categories below, the Potential Interventions have been listed in a broad priority order (1 being the highest priority). Nevertheless, all Potential Interventions are seen as providing benefit within the next five years, irrespective of their ranking. The rankings are indicative and would need to be reviewed in the light of further development and assessment. The schemes likely to have the biggest benefit in the immediate short term are listed in section 3.5.

A.1. Potential Walking Interventions

The potential walking interventions are as follows:

- An audit of existing pedestrian and cycling routes and connectivity requirements within CBC, leading to a strategy for improving the consistency, continuity and quality of these routes. Onsite observations found that these routes are currently inconsistent and at times difficult to navigate. Observations also found some footways on site are narrow and uneven in places;
- 2. Review pedestrian and cycle wayfinding in the light of current routes and those proposed in the strategy described above. This should include the potential for 'best in class' solutions and tying in with current wayfinding strategy elsewhere in Cambridge;
- 3. Not all junctions have pedestrian crossings, such as the eastern side of the Long Road/Hills Road junction. Ensuring all crossings with pedestrian desire lines have pedestrian crossing provision would help to accommodate future pedestrian trips; and
- 4. Reviewing lighting levels and perceived security on pedestrian routes within and around CBC. This is because stakeholders expressed concerns about inconsistent lighting levels.

A.2. Potential Cycling Interventions

The potential cycling interventions are as follows:

- 1. An audit of the pedestrian and cycling routes, and subsequent strategy, as described above;
- 2. Providing an extensive cycle network to encourage cycling to CBC. The GCP Greenways cycleway scheme will connect local villages to the site and provide cyclists with a safer route into the site;
- 3. Develop a scheme to provide an attractive cycling route to CBC from the east (Cherry Hinton, Fulbourn and nearby villages), via Nightingale Avenue and the recently-upgraded cycle entrance at Red Cross Lane. For those originating from Fulbourn, access to CBC from the Fulbourn Greenway would involve cycling to Cambridge Railway Station and then along the recently improved cycling facilities on Hills Road or leaving the Greenway early and travelling down Wulfstan Way and Nightingale Avenue. Neither of these routes have dedicated cycle provision at present. Cycle improvements along these routes have the potential to improve access to CBC by cycle from the east;
- 4. Keep the capacity and condition of cycle lanes under review, to ensure they are in adequate condition to accommodate the additional demand;
- 5. Enhancements to the existing cycle/pedestrian cut-through via Car Park H and its linkage to Puddicombe Way and onwards to Main Drive. Building on the recently-implemented Hills Road cycling scheme which leads to this cut-through, it could become a high-quality and highly visible pedestrian/cycle access with good links into the rest of the campus;
- 6. Provide for cyclists to turn right out of Adrian Way into Long Road (an intervention previously identified by the Cambridge Cycling Campaign); and
- 7. Review the scope for cycle access directly between cycle routes and adjoining buildings, such as future developments between Dame Mary Archer Way and the cycle route to Shelford, and incorporate this into site design briefs.

A.3. Potential Public Transport Interventions

The potential public transport interventions are as follows:

- 1. Engage with bus operators to identify potential additional direct services to CBC. There are large gaps in direct services to the east, north east and west Cambridgeshire, which may deter users and reduce patronage. Gaps to address would include:
 - a. Papworth, especially after the relocation of the Royal Papworth Hospital to CBC;
 - b. Ely and Newmarket; and
 - c. New developments such as Cambourne West, Bourn, Northstowe and Waterbeach;
- 2. Consider the potential for dedicated staff shuttle buses to support key specific flows (e.g. Waterbeach Barracks, Eddington and Northstowe) if commercial bus services cannot provide adequately for these;
- 3. Engage with bus operators to identify improved off-peak services. Consider extending the duration of high frequency service periods to cover more of the pre-AM peak and post-PM peak periods which are particularly used by shift workers. This was one of the key issues identified by stakeholders. If not viable on a purely commercial basis, these may require a degree of financial support;
- 4. Review the impact of visiting hours and consider interventions to either increase bus capacity at relevant times or encourage visiting at off-peak times;
- 5. Consider fare promotions for staff, to further increase the attractiveness of public transport;
- 6. Further promotion of the existing patient courtesy bus through media campaigns and on-site promotional activities. Stakeholders commented that this is a useful service but under-used and under-promoted;
- 7. Measures to improve the attractiveness and awareness of existing bus services, including additional Real Time Passenger Information displays, amendment of timetables in line with actual journey times, off-bus ticket purchasing opportunities, further promotion and publicity such as face-to-face engagement on-site, and maintaining the condition of the buses and bus stops. These were identified by stakeholders as potentially valuable. This should include additional 'where to catch your bus' information, both to assist bus users and to promote the range of services available, given the complexity of existing bus stopping arrangements;
- 8. Carry out further work to understand the most desirable medium-term strategy for bus stop location and bus routing within CBC. This should consider and balance the goals of:
 - a. Offering passengers convenient access to all parts of CBC, from all bus routes;
 - b. Making the service offer comprehensible and 'marketable' as part of encouraging bus use;
 - c. Minimising bus journey times and mileage; and
 - d. Maximising connectivity to/from a future Cambridge South station;
- 9. This may ultimately point to a central bus station at the heart of CBC, a central bus spine route through CBC, or another solution, and might require a frequent campus shuttle bus to provide very local connectivity and reduce walking journey times; and
- 10. Use of EURO6 buses and provision of rapid charge electric vehicle points for use by Taxis only in order to contribute to improving air quality in the area.

A.4. Potential Parking Interventions

The potential car parking interventions are as follows:

- 1. CCC are considering the extension of the on-street parking controls. This would restrict onstreet parking in the streets surrounding CBC. Although this may put additional pressure on parking within CBC, it could encourage individuals to take more sustainable forms of transport;
- 2. Review existing small pockets of parking, particularly those at the heart of the campus, to identify those where users could be relocated to vacate space for pedestrian, cycling or public realm enhancements, as well as potentially reducing traffic volumes and conflicts in those areas; and
- 3. Review the management of staff parking demand for existing and future occupiers across CBC, including potential adjustments to pricing structures or eligibility criteria, with the aim of:

- 4. Maintaining the correct level of parking demand within the available supply, bearing in mind that growing patient and visitor demand will need to get priority; and
- 5. Evening-out the issues with some parking areas being over-popular and others not fully used.

The potential cycle parking interventions are as follows:

- 1. Continuation/formalisation of the cycle clearing scheme which removes abandoned cycles, with a potential need to increase frequency if required. On-site observations found significant numbers of cycles that appeared to be abandoned;
- Work closely with CBC to provide the additional cycle spaces recommended in the 2015 Access
 to Addenbrooke's Modal Choice Document and identify further areas where cycle parking onsite can be increased an intensified Stakeholders also highlighted the closure of an area,
 including cycle parking, near the Frank Lee Centre which could be re-opened to provide
 additional parking quickly;
- 3. Work with CBC Partners to identify possible funding sources for cycle parking improvements; and
- 4. Consider whether, as part of a sustainable transport focus, existing car parking spaces could be converted into cycle parking spaces (especially as one car parking space converts into multiple cycle parking spaces). See also recommendation above concerning existing small pockets of car parking that could be converted into cycle parking.

1.2. Potential Park and Ride/Park and Cycle Interventions

The potential Park and Ride/Park and Cycle Interventions are as follows:

- Increase nearby Park and Ride capacity to encourage those who use/visit CBC to use this as a mode as opposed to parking on-site or on nearby residential streets. Possible interventions include:
 - a. Investigate the possibility of increasing the capacity at Trumpington Park and Ride in the immediate short term (by the end of 2019) to help provide capacity for the staff from Papworth travelling on to the site. Any proposals should also investigate if additional bus capacity from the Park and Ride sites is required;
 - b. Increased Park and Ride capacity to the south-west of Cambridge, such as that proposed by the GCP, is recommended for years 1-5, to help provide capacity for sustainable mode choice for those using CBC;
 - Investigate the possibility of increasing the parking capacity at Babraham Park and Ride in years 1-5. Any proposals should also investigate if additional bus capacity from the Park and Ride sites is required; and
 - d. Investigate the possibility of having dedicated CBC parking spaces at Park and Ride sites; and
 - e. Explore the possibility of moving a proportion of the contractor parking to Babraham Park and Ride, where evidence suggests that there is some available capacity whilst also complimenting this by providing a dedicated shuttle into the development sites as a short-term measure.
- 2. Provision of a Park and Cycle site outside CBC, to reduce congestion near the site and promote sustainable transport. Cambridge has a very large propensity to travel by cycle, as evidenced by mode share figures. Park and Cycle capacity may also come in the form of a bike hire scheme to and from Trumpington Park and Ride and Babraham Park and Ride, or a bike share scheme throughout the city (such as the existing Ofo scheme), as suggested by stakeholders. This could include formalisation of facilities at the existing Park and Ride sites, including measures such as dedicated areas for parking adjacent to cycle storage locations, with greater numbers and quality of storage facilities for cycles and associated equipment;
- 3. It is suggested that a Park and Ride for CBC only could be investigated closer to the site to relieve pressure from Trumpington and Babraham Park and Ride whilst providing a prioritised service for those using the site; and

4. Investigate the possibility of provision for dedicated/formalised Park and Cycle facilities from Park and Ride sites. This should include dedicating specific areas of the sites for 'Park and Cycle only', with accompanying facilities such as lockers, cycle parking stands and links to the nearby cycle network.

A.1. Potential Local Highway Interventions

The potential local highway interventions are as follows:

- 1. Stakeholders suggested improved traffic signals on Addenbrooke's Road could reduce the chance of traffic queues reaching the M11 Junction 11 bridge, which has been observed to be congested due to right turning on traffic on the northbound side of Hauxton Road;
- 2. Continue to support sustainable travel to reduce dependence on private car modes;
- 3. Stakeholders suggested the need to review signal timings at the Hills Road access to optimise traffic flow within the immediate vicinity of CBC. This is being monitored by CCC; and
- 4. Provision of additional electric vehicle charging points on Campus to encourage us of these vehicles to access the Campus.

A.2. Other Potential Interventions

Other Potential Interventions are as follows:

- Reviewing the attractiveness and promotion of existing car-share options (including the Camshare county-wide platform and the specific arrangements at Cambridge University Hospitals, which include a dedicated parking area for car-sharers). It may be possible to enhance the range of benefits available for car-sharing, such as extending a dedicated/priority parking offer across CBC;
- 2. Set up mechanisms for staff of new occupiers, such as relocated Royal Papworth Hospital staff, to receive travel planning advice and support prior to relocation, to promote knowledge of their options when accessing CBC and ensure that sustainable travel patterns are established from the start. This could be in the form of an online travel plan through which the business provides incentives for employees to undertake. Through this, employees could request face-to-face guidance if required;
- 3. Annual surveys should continue for monitoring purposes, with a view to implementing new strategies should the existing proposals be ineffective;
- 4. Control of HGVs entering the Campus through an off-site freight consolidation point. This would reduce the number of HGVs accessing the site and contribute to improving air quality in the area; and
- 5. Inclusion of rapid electric charging points for taxis to encourage taxi fleets to include these vehicles and help improve air quality in the area.

Potential Longer-Term Interventions for access to CBC (in a WITHOUT Cambridge South Station Scenario)

Appendix B

Ref	Potential Intervention	Description	Benefit	Dependency
		Potential Bus I	nterventions	
1	CBC Bus Strategy	A coordinated bus strategy for CBC developed by all stakeholders and bus operators.	Effective bus management, potentially including timetable coordination (through a Qualifying Agreement) where operators overlap, to encourage more use of bus to access the Campus.	Commercial buy-in from Bus Operators and/or suitable subsidies.
2	Season Ticket Loans for Staff	Providing a loan to employees to buy bus season tickets.	Encourage bus travel by making it a more financially attractive	Commercial buy-in from Bus Operators and/or suitable
3	Subsidised Ticketing for Staff	A contribution toward bus tickets provided to staff.	alternative to the private car.	subsidies.
4	Free Bus Pass for New / Relocated Staff	New / relocated staff to receive free bus passes that cover the first month of their employment in order to instil positive travel habits from the outset.	Encourage sustainable travel habits to be instilled in new employees before travel behaviour is engrained.	Commercial buy-in from Bus Operators and/or suitable subsidies depending on approach to implementation.
5	Inter-Operator Ticketing	Ability to buy tickets that are useable on all bus services. A detailed description of the potential application of Inter-Operator Ticketing can be found in the Study Report.	Allow bus users to be flexible with their journeys on all services.	Commercial buy-in from Bus Operators and/or suitable subsidies.
6	Bus Hub / Interchange at the West of CBC	A bus interchange located to the west of the site to be served by CGB buses, buses accessing the site via Addenbrooke's Road and Robinson Way.	Provide a coordinated approach to bus services to the West of the Site and provide an interchange point with other transport services. Reduction in walking distance to some destinations compared to the existing Bus Station.	Commercial buy-in from Bus Operators and/or suitable subsidies. Available land on Campus.

Ref	Potential Intervention	Description	Benefit	Dependency
7	Reconfiguration of Addenbrooke's Bus Station	An opportunity to expand and rework the existing Addenbrooke's Bus Station, potentially by using the Car Park H land to the north of the existing site or Car Park A adjacent to the existing site.	Increased capacity of the existing bus station.	Available land on Campus.
8	Permitted Right Turn for Buses and Cycles from Adrian Way	Allow all movements for buses and cycles at the Adrian Way junction with Long Road to enable different routing patterns.	More routing options and freedom for buses to exit via the north of the site instead of Hills Road Roundabout. Cyclists benefit in terms of journey times and routing.	This intervention may require signalisation of the junction. This would be subject to traffic modelling and junction design.
9	Bus service pattern Review to Accommodate Off-Peak Working Hours	Engagement with bus operators to provide off-peak hour services for employees of CBC whose shift pattern includes late or early working.	More travel options for those staff who start work before or finish after the regular bus services operate.	Commercial buy-in from Bus Operators and/or suitable subsidies.
10	Safer Routes to Bus Stops	Based on the outcomes of the pedestrian audit recommended in Part 1, provide suitable lighting and visibility at, and on routes to, bus stops.	Encouraging use of bus services by enhancing perceived safety of access and waiting facilities.	Suitable subsidies/funding.

Ref	Potential Intervention	Description	Benefit	Dependency
11	Royston to Cambridge bus service redirected to CBC	Rerouting of the Stagecoach 26 service from Royston to Cambridge to call at CBC. Could involve routing via the CGB or via Addenbrooke's Road and Long Road.	Provide a viable bus service for those staff and visitors residing in Royston (significant cluster as shown in postcode mapping in Figure 5-3 of Part 1 Report) without need for a change at Trumpington Park and Ride. Could lead to a reduction in private vehicles on the road network which could have a positive impact on congestion and air quality.	Commercial buy-in from Bus Operator and/or suitable subsidies.
12	Bus Service from Papworth Everard and Cambourne	Providing a temporary bus service from / to Papworth Everard / Cambourne in advance of the West of Cambridge Package.	Beneficial for those travelling from the west, especially following the Royal Papworth Hospital relocation and considering housing developments at Cambourne West and Bourn Airfield. Could lead to a reduction in private vehicles on the road network which could have a positive impact on congestion and air quality.	Commercial buy-in from Bus Operators and/or suitable subsidies.
13	Additional Bus Priority on Addenbrooke's Road	Provide bus priority on Addenbrooke's Road, to provide segregated access to CBC.	Improved access for bus services along Addenbrooke's Road with potential positive impacts on reliability and journey times, especially during peak hours.	Available highway land on Addenbrooke's Road.
14	Enhanced CGB Capacity	Provide increased capacity on the CGB to the east of Trumpington Park and Ride, which currently has a single track of approximately 700m.	Increase capacity and facilitate more services.	Technical solution to mitigate constraint imposed by single track section which cannot practically be double tracked in the conventional manner.

Ref	Potential Intervention	Description	Benefit	Dependency
15	Bus Priority at Signals in Vicinity of CBC	Allow buses an extended green phase at traffic signals in the vicinity of the CBC site.	More reliability, improved timetable compliance and journey times.	Subject to traffic modelling.
16	Central Spine Road for Buses	Provision of a busonly route through the centre of the Campus.	Improvements to east- west connectivity, reducing interaction with cars around the Campus and reducing journey times.	Available land on Campus (potentially dependent in turn on hospital redevelopment). Commercial buy-in from Bus Operators.
17	Demand Responsive Bus Service Around CBC Campus	Demand responsive bus service, which could be in the form of autonomous pods, around the CBC site. To be developed in accordance with CBC Bus Strategy.	Out-of-hours bus service to connect with existing transport infrastructure, which could make sustainable journeys viable for those staff who work early or late shifts.	Technology advances. Connections to onward sustainable infrastructure. Coordination with Trumpington Park and Ride autonomous pods trial.
		Potential Park and F	Ride Interventions	
18	Expanding Parking Capacity at Existing Park and Rides to Accommodate Growth	Provide additional parking capacity at Trumpington and Babraham Road Park and Ride sites, as well as at a new Cambridge South West Park and Ride to help manage demand for travel to the CBC site. The Study Report indicates a requirement for approximately 1,500 spaces for CBC users only.	Provide capacity to meet current demand as well as demand displaced by other initiatives related to parking and highway constraints. Could lead to a reduction in private vehicles on the road network close to CBC which could have a positive impact on congestion and air quality.	Dependent on GCP proposals for expansion of Trumpington Park and Ride and provision of a new Cambridge South West Park and Ride.

Ref	Potential Intervention	Description	Benefit	Dependency
19	Direct Bus Service from a New Cambridge South West Park and Ride to CBC	Provide a direct bus service from a new Cambridge South West Park and Ride to CBC without calling at Trumpington Park and Ride, to encourage use of Cambridge South West Park and Ride.	Encourages use of Cambridge South West Park and Ride for CBC users and releases pressure on Trumpington Park and Ride and Hauxton Road. Could lead to a reduction in private vehicles on the road network close to CBC which could have a positive impact on congestion and air quality.	Dependent on GCP proposals for provision of a new Cambridge South West Park and Ride.
20	Extend Existing Patient Courtesy Bus to Babraham Park and Ride	Extension of the existing Patient Courtesy Bus to Babraham Park and Ride, to encourage use of this site by patients who would otherwise drive to CBC.	Makes Park and Ride a more viable alternative for those patients and other users of CBC for whom the door-to-door, more personal service is of particular value.	Viability to extend patient courtesy bus. May require a second bus in order to maintain frequency. Suitable subsidies/funding.
21	Service Directly from Milton, Newmarket and Madingley Park and Rides to Serve CBC ²	Provide a direct bus service from other Park and Ride sites around the City to CBC.	As CBC becomes a destination for more and more trips from around Cambridge, increased demand for Park and Ride services from all sites could make CBC a viable destination. Encourages more use of public transport around the City.	Commercial buy-in from Bus Operators and/or suitable subsidies.

² Table 5-2 in the Part 1 Report shows that staff origins are evenly spread around the City but a large proportion of staff (48%) approach the site from the south west. Enhanced Park and Ride service provision could help disperse trips and lessen the impact on the highway network.

Ref	Potential Intervention	Description	Benefit	Dependency
22	Park and Ride Capacity to the East	Provision of a Park and Ride and Park and Cycle to accommodate demand from the east in addition to Babraham Park and Ride. This could come in the form of the Park and Ride associated with the Cambridge South East Transport Study depending on exact location, which could provide some eastern Park and Ride Capacity.	Provides additional Park and Ride Capacity and offers a connection with the Fulbourn Greenway. A rural cycle hub in the form of a Park and Cycle could be provided for the Fulbourn Greenway in the interim. Could lead to a reduction in private vehicles on the road network close to CBC which could have a positive impact on congestion and air quality.	Dependent on land availability and commercial buy-in from Bus Operators and/or suitable subsidies.
23	Bus (or Autonomous Pods) to/from CBC/ Park and Rides Before and After Main Park and Ride Service Ends.	Engagement with bus operators to provide services to/from Park and Ride sites before and after the core City Centre service has finished, to accommodate early/late shift working. This could consist of a dedicated service (e.g. use of the patient shuttle bus when it is not in use) or an extension of existing services.	To make Park and Ride a viable alternative to the private car for those with variable shift patterns. Could lead to a reduction in private vehicles on the road network close to CBC which could have a positive impact on air quality.	Commercial buy-in from Bus Operators and/or suitable subsidies.
24	Priority Access for Buses to/from Cambridge South West Park and Ride	Bus priority measures into the new Park and Ride site, segregated from other Road users.	Segregated and reliable access to the site which could also be used by cyclists. This increases the opportunity for a Cambridge South West Park and Ride to be a viable Park and Cycle Option.	Dependent on GCP proposals for provision of a Cambridge South West Park and Ride.

Ref	Potential Intervention	Description	Benefit	Dependency
25	Effective Access for Vehicles to/from South West Park and Ride	Explore potential for Park and Ride lane or segregated access from M11 Junction 11 for the proposed new Park and Ride. Realtime information about space availability at Trumpington Park and Ride and a new Cambridge South West Park and Ride, as well as journey time to Trumpington Park and Ride, could help manage demand.	Reduces the pressure on M11 Junction 11 roundabout and encourages use of the Park and Ride site. Manages demand between the two Park and Ride sites. Could lead to a reduction in private vehicles on the road network close to CBC which could have a positive impact on congestion and air quality.	Dependent on GCP proposals for provision of a Cambridge South West Park and Ride.
26	Further restrictions on Car Access	Restrictions on the majority of vehicles entering the Campus, with exceptions for emergency vehicles, A&E and Rosie emergency access, blue badge holders, staff access required due to limited alternative options and specific site needs, servicing (offpeak), buses, taxis and perhaps some car sharers.	High positive impact on the road network, and air quality, within and around CBC with vehicles being encouraged to use Park and Ride sites as an alternative to driving to site.	Dependent on suitable alternatives for travel to the site — bus and Park and Ride initiatives especially. Any restriction will need to reflect and accommodate the 24/7/365 nature of many functions on CBC, and those staff and patients for whom alternatives are not available or suitable.

		Potential Parking	; Interventions	
28	Extension of the On-street Parking Controls.	Extension of the onstreet parking controls to streets surrounding CBC, focussing on the short-term management of onstreet parking impacts and aligning the implementation of any further controls with the phasing of potential interventions over the medium to long term.	Benefits for residents in terms of parking capacity and congestion and air quality in residential areas. Encourage CBC users to park in designated car parks on-site or at Park and Ride sites. Safer and more pleasant walking and cycling in residential streets due to reduced traffic volumes, emissions and noise.	Dependent on suitable alternatives for travel to the site — bus initiatives and Park and Ride initiatives especially. This Potential Intervention is also subject to statutory public consultation process. Implementation should be aligned with other control initiatives such as Potential Intervention 31 (Restriction on Car Park Growth) to avoid parking issues elsewhere in order to holistically manage, delivery, impacts and benefits.
29	Bring Cycle Parking Expansion Forward	Implement planned cycle parking sooner than predicted to accommodate demand and encourage further use. This could also include provision and parking for hire or pool cycles and provision for charging electric cycles.	Ensure that supply meets demand and a surplus of spaces are available in appropriate locations to encourage further use and reduce the chance of users having to search for a space.	Dependent on proposals by CBC and other occupiers.

30	Restrictions on Car Park Growth	Restrict the level of car park growth onsite. Consider whether those car parks planned/approved will be beneficial to the overall transport picture.	Discourages vehicle trips to the Campus and encourages use of sustainable modes and Park and Ride Sites. Reduced car trips to the Campus could have a positive impact on congestion and air quality in the area.	Dependent on suitable alternatives for travel to the site – bus and Park and Ride initiatives and capacity especially. Should be implemented with other control initiatives such as Potential Intervention 29 (Extension of the onstreet parking controls) to avoid parking issues elsewhere.
31	Needs Based Prioritisation of Parking Allocation	Allocation of parking on-site based on a hierarchy of need with priority given (as now) to patients and visitors followed by staff on a basis of need.	Discourages vehicle trips to the Campus and encourages use of sustainable modes and Park and Ride Sites. Reduced car trips to the Campus could have a positive impact on congestion and air quality in the area.	Dependent on suitable alternatives for travel to the site — bus and Park and Ride initiatives especially. Dependent on staffing to manage. Any restriction will need to reflect and accommodate the 24/7/365 nature of many functions on CBC, and those staff and patients for whom alternatives are not available or suitable.
		Potential Peak Hour Spi	reading Interventions	
32	Review Staggering Shift Patterns of Workers	Varying the start and finish times of staff to stagger arrival and departure to CBC.	Distributes trips across the day and reduces the likelihood of the demand for the site	Dependent on suitable alternatives for travel to the site outside of core hours – bus and Park and Ride initiatives especially.
33	Review Potential to Change Visiting Hours	Changing or staggering visiting hours so that the peak arrival and departure times do not coincide with the network peak hours.	peaking at the same time as the surrounding highway network.	Agreement with CBC and coordination between all wards on Campus.

34	Restrict Non- Essential Deliveries During Peak Hours	Restrict all non- essential deliveries to arrive at CBC outside of the peak hours.		Coordination between all stakeholders on Campus as well as delivery companies.
		Potential Cycling and W	alking Interventions	
35	Local Connections to the West	Review and improvement of connections for pedestrians and cyclists to the west of the Campus via Alpha Terrace and Anstey Way towards Grantchester.	Cycle and pedestrian connections towards Grantchester and further afield towards West Cambridge.	Land availability, existing carriageway and footway widths.
36	Greenways Project Implementation and Connection with CBC	Creation of a link between the Fulbourn Greenway and CBC for those travelling from the east, routing via High Street, Queen Edith's Way, Nightingale Avenue and Red Cross Lane.	Enhanced cycle connections to the east of the Campus, particularly towards Cherry Hinton and Fulbourn.	Land availability, existing carriageway and footway widths.
37	Audit of Pedestrian and Cycle Routes and Connectivity Requirements within CBC	Audit of pedestrian and cycle wayfinding and infrastructure.	Lead to a strategy for improving the consistency, continuity and quality of these routes.	Identified and Active Transport Coordinators.
38	Segregated Cycle Routes On-site	Where possible, cycle routes should be segregated from traffic and pedestrians.	Reduce the risk of conflict between modes.	Land availability and existing footway and carriageway widths.
39	Monitoring the Cycle Demand on an Annual Basis	Annual monitoring of cycle parking capacity and condition, as well as an audit on cycle infrastructure and connections across the site.	To ensure that if there is a shortfall in supply or defects are highlighted, they can be rectified within an appropriate timescale. This information could be linked to larger monitoring systems and used in wider Cambridge studies.	Identified and Active Transport Coordinators.

		Potential 'Other'	Interventions	
40	Consolidation of Non-Urgent / Time Sensitive Deliveries	Consolidation of deliveries at an offsite centre (perhaps at a Park and Ride site) to limit the number of delivery vehicles accessing the CBC site, and increase the use of off-peak hours for the final delivery leg to site.	Reduces the number of delivery vehicles accessing the site.	Dependent on buy-in from CBC occupiers on site and delivery contractors.
41	Integrated Online Journey Planning Tool	Creation of an online travel portal on CBC and CUH websites for use by staff, patients and visitors.	Increase knowledge of and confidence in the range of travel options available to staff and visitors of the Campus. Priority should be given to sustainable modes.	Coordination between all stakeholders on Campus – advertising through all organisations.
42	Personalised Travel Planning for Staff (and visitors if requested)	Personalised journey planning for site occupants / staff. Those that register for a personal travel plan could receive a free bus ticket or equivalent.	Increase knowledge of the range of travel options available to staff and visitors of the Campus. Priority should be given to sustainable modes.	Coordination between all stakeholders on Campus – advertising through all organisations.
43	Car Sharing Initiatives	Car sharing initiatives including guaranteed ride home (whereby car sharers are provided with a return journey in an emergency or unforeseen circumstance), dedicated or priority parking spaces and discounts on parking.	Reduce the number of single occupancy vehicles on the road network. Reduced car trips to the Campus could have a positive impact on air quality in the area.	Coordination between all stakeholders on Campus to provide consistent benefits and guaranteed ride home for all employees irrespective of employer.

44	Staff Car Share Database	Dedicated CBC Staff Car Share Database that is coordinated between all Campus Stakeholders. Each organisation currently offers their own closed system, which limits the effectiveness of the scheme.	Encourage car sharing and increased likelihood of a suitable journey match.	Agreement between stakeholders regarding parking arrangements and charges for car sharers from different organisations.
45	Pool Cars/Car Club	A car club or pool cars for use by staff travelling for work or as a guaranteed ride home.	Reduce the need for those who travel for work to use their own vehicle to access CBC. Provide alternative means of travel for staff who cycle, walk or use the bus, for emergencies or occasions when a car is needed. Reduced car trips to the Campus could have a positive impact on congestion and air quality in the area.	Coordination between all stakeholders on Campus to provide consistent services and access to cars.
46	Travel Advice Centre	Creation of a Travel Advice Centre at CBC for staff and visitors. To provide marketing information, timetables, advice etc.	Increase knowledge of the range of travel options available to staff and visitors of the Campus.	Land availability on- site, or willingness of existing organisation(s) to dedicate space within existing buildings, efficient advertising for staff, patients and visitors. Staffing at appropriate times to capture demand.
47	Encourage Home- Working	Encourage and enable employees to work from home if possible.	Reduces the number of trips on the transport network. Reduced car trips to the Campus could have a positive impact on congestion and air quality in the area.	Buy-in from CBC stakeholders and employers for whom working at home is a viable option.

Appendix C

Potential Interventions required to help maximise Cambridge South Station

Provision	Description	Benefits
Key Access Routes and Desire Lines	Step-free entrances at the north (near the Francis Crick Avenue / CGB / The Green and the Gardens junction) and south (near Addenbrooke's Roundabout). Access to/from these primarily facing towards Francis Crick Avenue, but ideally with additional direct access from the CGB and Addenbrooke's Road. Address crossing/pedestrian/cycle facilities, wayfinding and connectivity to key locations within CBC, as part of the CBC site pedestrian/cycle facility audit proposed in the Part 1 Report.	Supports and prioritises walking and cycling, in turn minimising car use.
Review of Access to Key Origin Stations	Review the footfall impact at stations at the other end of the journey, to identify any necessary access or facility improvements identified. Key locations with potentially significant trip volumes which might include a Park and Ride role include: • Foxton and Royston; and • Waterbeach, Ely and stations to King's Lynn. The review should consider station facilities including: • Car and cycle parking; • Walking and cycling routes close to the station; and • Bus access to maximise the connectivity offered.	Encourages rail access to CBC. Potential to benefit other users at the relevant stations. This Study could incur wider economic benefits as other users at the potentially improved stations would benefit.
Step-free Access and Accessible Routes	 The Station itself will be designed with step-free access in accordance with legal and rail-industry requirements. To maximise step-free local access: Both north and south entrances should be accessible routes; and The extent of accessible routes throughout CBC, particularly routes between the Station and key destinations, should be reviewed as part of the pedestrian/cycle facility audit proposed in the Part 1 Report. 	Step-free access would promote non-car modes throughout the CBC site and to access the proposed Station.
Wayfinding from Key Access Routes	Wayfinding totems should be placed throughout CBC, showing (in addition to any other wayfinding information) routes and walking times to the Station. These should also show live train departure information, as a user convenience and to further highlight the presence of the Station and the connectivity it offers. Other wayfinding options such as app-based information should also be considered as part of a holistic approach integrated with wider Cambridge wayfinding.	Improved rail journey planning, attractiveness and visibility.

Provision	Description	Benefits
High Quality Street Infrastructure	The location and design of pedestrian crossings on Francis Crick Avenue should be reviewed alongside the Station entrance locations to prioritise walking and cycling. These should connect with the step-free access.	Encourages sustainable modes through improved safety, journey quality and perceived security.
	Urban realm approaches such as raised tables should be considered to support pedestrian and cycle access, providing traffic calming (subject to operational requirements for emergency vehicles and buses) and enhancing the sense of place around the Station.	
	Footways around the site, especially within the vicinity of the proposed Station should be above the desired 2.5m width.	
	Street and footway lighting should be reviewed to identify potential enhancements required for perceived security or due to increased usage.	
	Address any condition or layout issues identified in the CBC site pedestrian/cycle facility audit proposed in the Part 1 Report.	
	Consider the opportunity for a particularly high- quality, 'gateway' treatment of the Station access route linking the north entrance to The Green and the Gardens area.	
Cycle Parking	Cycle Parking should include provision for larger cycles used by families (particularly common in Cambridge) and disabled cyclists.	Encourages cycling through providing sufficient and suitable
	Cycle parking facilities should be monitored by CCTV and should be open were possible to improve the perception of safety around the Station.	spaces for a wide range of potential cyclists.
	Cycle parking facilities should take into account the existing CBC Cycle Parking Standards.	
	Total cycle parking provision should be sufficient to cope with expected demand.	
Train/Cycle Interaction	A relatively high proportion of passengers take cycles onto trains. The Station layout and design will need to take account of this and practical experience from Cambridge and Cambridge North Stations.	Further encouragement for mode-shift to cycling, benefiting both CBC and the other end of the journey.
Cycle Facilities within a Cycle Hub	A Cycle Hub at the Station, of a 'five-star' level as defined in the Rail Delivery Group's <i>Cycle Rail Toolkit</i> 2.	Further encouragement for mode-shift to cycling.
Cycle Hire	Hireable cycles are currently in operation within CBC and are widely used. The Station should have a designated location for these and similar operators' cycles. This is in addition to the cycle hire available at the Cycle Hub.	Further encouragement for mode-shift to cycling. Facilitates cycling by non-cycle owners and those who wish to vary their mode of travel.

Re-routing of Existing Bus all cases, subject to operational feasibility) are the following: Services Potential to terminate at Cambridge South Station, requiring bus stops and a layover facility: Citi 2 and 114 – to create links from south-east and eastern Cambridge. These would be extended from the existing bus station to terminate at Cambridge South Station. Potential to pass Cambridge South Station, requiring bus stops: Citi 1 – to provide links from south-east Cambridge, Cherry Hinton and Fulbourn, including Peterhouse Technology Park and Capital Park, although this would require significant additional mileage and increase journey times for other passengers; 13 and 31 – to create links from Babraham and Haverhill (including the Babraham Institute and Granta Park), although this would require significant additional mileage and increase journey times for other passengers; 16A – to create links from villages east of Cambridge, although it is currently a limited service; Citi 7 – links from Stapleford, Sawston and Saffron Walden which would provide additional connectivity, notwithstanding these locations' existing links to the rail network (including Shelford station itself); 25 and 132 – links from Trumpington (and 132 additionally southwards to Saffron Walden) which would add a local feeder route supplementing walking, cycling and use of CGB. The 132 service would require re-routing to serve the Station; and CGB services (including U) - to provide links from Trumpington as well as the north and north-west
of the City.

Provision	Description	Benefits
Bus Access for Potential New Routes	 There are three groups of potential new routes that could interact with the proposed Station: West of Cambridge package routes – as described in Part 1. These could originate in places such as Camborne or north-west Cambridge and run on or near the M11 to Trumpington and then via the busway to CBC and potentially the City Centre. Exact service patterns have not yet been defined. Other near-term additional routes identified in Part 1 are likely to approach CBC via the busway from the north or south and terminate at CBC. In this respect their requirements will be similar to those of existing route U (see 'CGB services' above) or the potential West of Cambridge Package routes. Cambridge South East Transport Study options include potential new public transport access points to CBC. Each of these, if implemented, would pass Cambridge South Station and therefore require bus stops as noted above. 	Supports bus access throughout the catchment area for origin trips to the Station. Supports bus access to locations on CBC. Provides additional busbus interchange opportunities. Consequential impact on parking demand and highway traffic. Complements other GCP schemes.
Timetabling and co- ordination	It is desirable for bus and train times to co-ordinate to reduce interchange times at the Station when they are not operating at high frequencies. This would require co-ordination between bus and train operators and should be considered at detailed design stage in the light of the timetables and route networks at the time.	Reduced journey times. Increased attractiveness of bus-rail journeys.
Shuttle Service	An orbital bus route within the CBC site, calling at the key employment sites, transport interchanges and healthcare facilities, could provide improved journey times around the site. This service could be used particularly by disabled users and other mobility-impaired users. The shuttle bus itself would desirably be emission free although low emission alternatives could be provided. It should run both peak and off-peak to provide connectivity and additional safe, accessible travel options. This service could be a development of the existing Campus shuttle, or an entirely new service. The service could potentially also be an autonomous or demand responsive system subject to technological advances, space on site and funding for implementation, operation and maintenance.	Improves mobility around the site. Complements other buses serving CBC. Encourages use of, and sustainable travel to/from, the Station.

Provision	Description	Benefits
Integrated ticketing	Integrated ticketing to allow users to use the same ticket on bus and train services would reduce booking time prior to the user's journey, reduce dwell time at bus stops and address the perception that buying and collecting tickets is time consuming. PlusBus already offers this to some extent. Further development of integrated ticking is most likely to be driven by wider policy and commercial developments.	Improved attractiveness of sustainable travel modes. Potential for reduced dwell times at bus stops.
Interchange Information	Real Time Passenger Information within and around the Station can provide a summary of information including scheduled arrivals and departures of train/bus services. This could form part of the Wayfinding intervention proposed above to increase the awareness of other modes and allow users to plan their journey.	Increased awareness the Station is there will encourage users over time. Users that are informed of approximate journey length can use wayfinding as a tool to plan their journeys.
Taxi Access and Parking	A taxi rank, pick-up / drop-off zone and parking for Blue Badge holders should be adjacent to, or only a short walk, from the Station facilities. The location of these should be evaluated through the planning process and further detailed design.	Provides scope to use rail for the major part of a journey that would otherwise be made by private car.
Car Club	One or more dedicated Car Club spaces, and corresponding vehicles, should be provided. The vehicles would desirably be electric to reduce emissions on site.	Provides scope to use rail for the major part of a journey that would otherwise be made by private car.

Appendix D

Timeline of Impact Graph



Agenda Item 11



Report to: Greater Cambridge Partnership Joint Assembly 20th March 2019

Lead officer: Mike Davies – Cambridgeshire County Council

THE CHISHOLM TRAIL

1. Purpose

- 1.1. The Chisholm Trail 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 in Greater Cambridge.
- 1.2. The Chisholm Trail will provide a new largely off road link across the eastern side of the city linking Cambridge Station with Cambridge North Station, and in so doing provide links to employment, education and growth sites, and link green spaces.
- 1.3. The report sets out progress to date on the delivery of Phase One, as well as looking ahead to how Phase Two will be delivered to give a complete Chisholm Trail.

2. Recommendations

- 2.1. The Executive Board is recommended to:
 - (a) Note the progress being made on Phase One, details of construction works commencing, and the work to date in developing Phase Two;
 - (b) Approve an increased budget in line with final estimates; and
 - (c) Approve the delivery of the Romsey section of Phase Two by Govia Thameslink/Network Rail's contractor, as part of the Thameslink works.

3. Officer Comment on Joint Assembly Feedback and Issues Raised

- 3.1. Details of feedback from the Joint Assembly are set out in the report from the Joint Assembly Chair.
- 3.2 The Joint Assembly asked a number of questions of officers, primarily related to the change of design and the method of constructing the underpass at Barnwell Lakes on the Newmarket Road section of the route.

4. Background

- 4.1. The Chisholm Trail was conceived by cycling campaigner Jim Chisholm in the late 1990s. The thinking behind the Trail is to provide a strategic transport corridor that is largely traffic free and that could link up key destinations, including employment sites across the city. This would mean that vulnerable road users would be able to avoid heavy traffic and junctions, whilst the route itself would serve to encourage increased sustainable transport journeys and thus relieve congestion, boost public health and make for more reliable journeys.
- 4.2. A feasibility study was undertaken in 2009 which identified potential route options, land ownership and upcoming opportunities in new developments. In 2012 The Chisholm Trail as a strategic transport route was added to the emerging Cambridge City Local Plan. A Basic Asset Protection Agreement was signed with Network Rail, and work began to identify potential delivery options.
- 4.3. It was agreed at the Greater Cambridge City Deal Executive Board meeting in January 2015 that The Chisholm Trail should form part of the City Deal prioritised programme, and a budget of £8.4m was allocated. In August 2015 the Board gave approval to consult on the proposed route. In March 2016 the Executive Board approved the route of The Chisholm Trail following a period of public consultation, and gave approval to submit a planning application.
- 4.4. A two phase approach has been adopted for development and delivery of the scheme. Phase One (Coldhams Lane to Cambridge North Station including a new river crossing) is almost wholly off road, and required planning consent and commons consent, whereas Phase Two (Coldhams Lane to Cambridge Station) runs on quiet streets (public highway), Network Rail (NR) land and across two new developments (Mill Road Depot and Ridgeons, Cromwell Road). The approved route and the scheme phases can be seen on the plan in Appendix 1.
- 4.5. The 2009 feasibility study recommended that a new bridge crossing of the River Cam should be considered as part of the trail, and that this in itself had standalone value. Cambridgeshire County Council was successful in its 2013 bid to become part of the Department for Transport funded Cycle City Ambition Grant (CCAG) programme. The new bridge, which has come to be known as Abbey-Chesterton Bridge, was a key part of the County Council's CCAG programme. Following public consultation, approval was given by the County Council's Economy and Environment Committee in November 2015 to proceed to a planning application. Further S106 funding was identified for the bridge, and it gained planning consent in 2017.
- 4.6. As well as being a key component of the strategy to increase the levels of cycling and walking in Greater Cambridge, added benefits of the project are the promotion of multimodality (allowing easy access to rail stations and transport hubs by foot and cycle) and the opening up and linking of green spaces, which in turn gives potential scope for recreation, public art, new habitat creation and other initiatives and projects. This is a robust model: the Promenade Plantée in Paris, New York's High Line, and the recently opened 606 in Chicago have enabled alternative transport and leisure routes along railway corridors.

4.7. The Trail will also serve to link new developments thus encouraging more residents to adopt sustainable transport modes. The Chisholm Trail is very much a strategic route that links new developments and employment sites, and has direct linkages to other projects including Waterbeach Greenway.

5. Key Issues and Considerations

Phase One

- 5.1. The construction contract for Phase One (and Abbey-Chesterton Bridge) was let in November 2018 to Tarmac. The current work programme is 20 months duration. This phase has proved to be very complex and lengthy in terms of progressing through the planning application and planning condition discharge process reflecting the difficulties of the site. The site runs next to and under a live railway line, passes the oldest building in Cambridge, across areas of archaeological and ecological interest, and through areas that are designated as 'Flood Zone'. The route also impacts on public utilities located in Newmarket Road as well as a major strategic gas main that has to be crossed by The Trail in Ditton Meadows.
- 5.2. Land licence agreements have had to be secured from a range of landowners for both temporary compounds and the permanent route of The Trail. Each landowner has different requirements in reaching an agreement in terms of boundary treatments, specific routing of The Trail, landscaping and lease/licence duration. In some cases landowner requirements have meant reworking of packages being submitted to discharge planning conditions.
- 5.3. Due to ecological reasons the space available at Barnwell Lakes, on the south side of Newmarket Road, is more limited than first believed. This means that it is not possible to construct the underpass as originally planned by constructing it on Barnwell Lakes land and then moving it into place using self-propelled modular transporters. The underpass has been re-designed so that it can now be constructed in less space at Barnwell Lakes, using pre cast concrete units.
- 5.4. To construct the underpass, various utilities need to be relocated or protected during the works. The original plan was to physically suspend the services beneath a scaffolding bridge, but based on trial holes dug, condition surveys and liaison with each of the utility companies, the age and poor condition of some of the services has meant that this is not possible. The services will now need to be permanently or temporarily diverted.
- 5.5. Work to deliver Phase One should be complete by summer 2020, including the new river bridge.

Phase Two

5.6. In terms of Phase Two, Network Rail are undertaking major works to their assets north of Cambridge Station to increase stabling capacity, and to improve carriage presentation facilities (maintenance and cleaning) as part of the Thameslink programme. These improvements entail bringing back into use an arch in Mill Road bridge, and lowering the track at that location, for which a closure of Mill Road bridge is necessary for around seven weeks; scheduled for summer 2019. Network Rail are liaising with the County Council's Traffic Manager Team to finalise the timings and arrangements.

- 5.7. As a result of close working over several years between The Chisholm Trail Project Team and Network Rail, the proposals for The Trail on the east (Romsey) side can be delivered by Network Rail as part of their works. Details are shown on the plan in **Appendix 2**. This option that gives best value and minimises the need to obtain various approvals/consents, and procure Network Rail approved contractors. It also delivers this section of the scheme in the shortest possible timescale.
- 5.8. The planning application for Mill Road depot site includes The Chisholm Trail, running along its eastern edge, and provides the Hooper Street to Mill Road bridge arch link. The Trail is already in the masterplan for the Ridgeons site as part of a quiet street shared with cars, to tie in at the northern extent of the section outlined above.
- 5.9. The Project Team will continue to engage with Network Rail with regards to securing approval to establish the Trail on the west (Petersfield) side, from Mill Road Depot to Cambridge Station; though if this proves impossible to agree and deliver the alternative route is Devonshire Road.
- 5.10. In terms of on-road sections, interventions/treatments may include signage, resurfacing and a re-design of the signal controlled junction at Coldhams Lane and Cromwell Road.
- 5.11. The plan in **Appendix 3** shows the whole project in some detail in terms of on road sections, off road sections, developer interfaces and delivery phases.

6. Finance

- 6.1. £8.4m was allocated to The Chisholm Trail project in 2015, and at that time the scheme was very much in a development phase. A further £869,000 was allocated in early 2018 as it became clear that costs were escalating due to the difficulties and challenges of the site, the restrictions in how the construction works could be executed, and the complexities of agreeing packages for discharging planning conditions.
- 6.2. Final estimates for completing the scheme have now been secured including Phase Two of the project. The £14.3m estimate is above the current approved budget.

7. Next Steps and Milestones

- 7.1. The current construction works on Phase One will continue, including the construction of the Newmarket Road underpass, path widening across Coldhams Common and the new Abbey-Chesterton Bridge linking Ditton Meadows to Chesterton. At this stage it is anticipated that the underpass will be built in the autumn, with a closure of Newmarket Road for several days required.
- 7.2. Construction works on Phase Two (Romsey Section) will commence in summer 2019 as part of the Thameslink work in Cambridge, including the closure of Mill Road Bridge. The section of The Chisholm Trail between Cavendish Road and Clifton Road should be open for public use this year, providing a good quality cycle link from Romsey to destinations such as Hills Road and Long Road Sixth Form Colleges, Addenbrooke's Hospital and the Biomedical Campus via this new link and the Hills Road segregated cycleway.

- 7.3. Work to commence the development of Mill Road Depot site has started, and on completion a section of The Chisholm Trail will open. Positive discussions have been ongoing to incorporate The Chisholm Trail as part of the Ridgeons development on Cromwell Road, though the design has not been finalised and full planning consent has not been secured.
- 7.4. Design work is underway to improve the controlled crossing of Coldhams Lane, giving access from Coldhams Common into Cromwell Road and onwards to the Ridgeons development. Other on road sections of the route include Cromwell Road, York Street, Ainsworth Street and Clifton Road. Work is underway to consider how these roads, all currently subject to 20mph speed limits, could be further enhanced to ensure the very safest, attractive conditions for cyclists exist.
- 7.5. The Chisholm Trail is currently planned to be complete, and open for use in 2022.

8. Implications

Financial and Other Resources

8.1. Approval is being sought to increase the overall budget to £14.3m as set out in Section 6 of the report.

Risk Management

8.2. Project risks are being proactively managed and mitigated.

Climate Change and Environmental

8.3. Phase One takes the route of The Trail through some very sensitive sites. The scheme has full planning approval and matters such as flood mitigation, heritage, ecology and archaeology were all addressed robustly through this process.

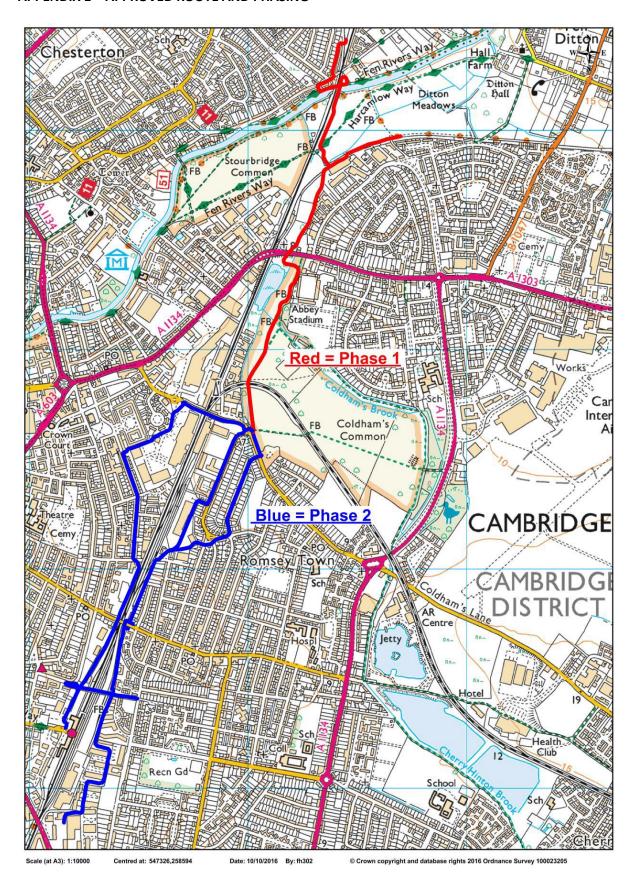
Consultation and Communication

8.4. There has been extensive consultation and engagement throughout the project. Communications are ongoing.

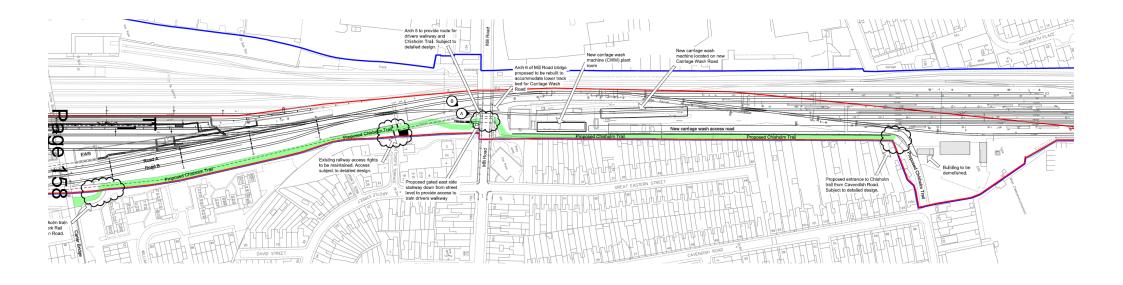
List of Appendices

Appendix 1	Approved route and phasing
Appendix 2	Chisholm Trail Phase 2, section to be delivered by Network Rail
Appendix 3	Developer interfaces, on and off road sections and delivery phasing

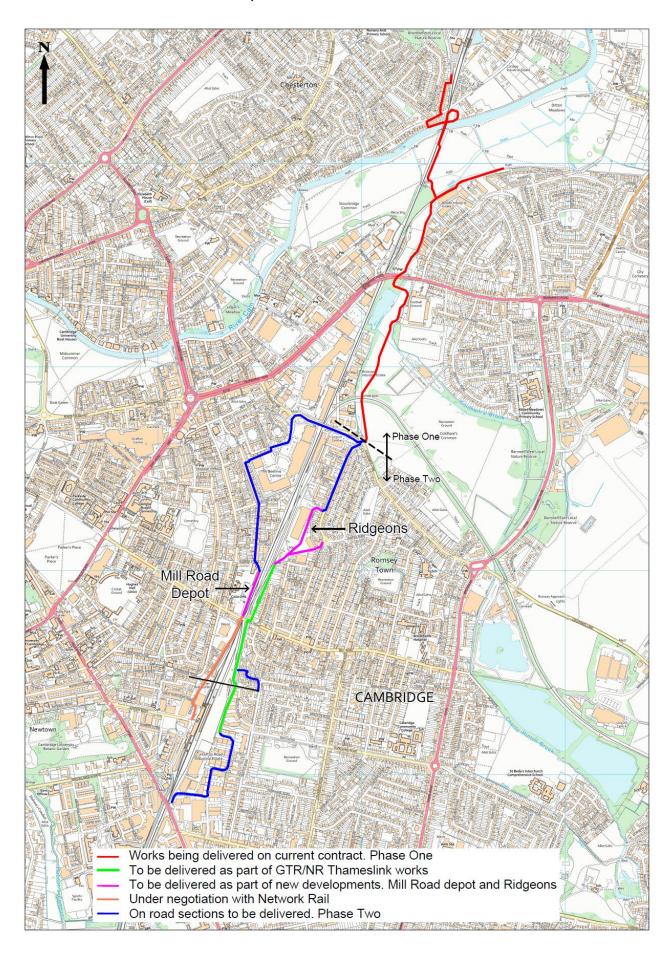
APPENDIX 1 – APPROVED ROUTE AND PHASING



APPENDIX 2 – CHISHOLM TRAIL PHASE 2, SECTION TO BE DELIVERED BY NETWORK RAIL



APPENDIX 3 – DEVELOPER INTERFACES, ON AND OFF ROAD SECTIONS AND DELIVERY PHASING





Agenda Item 12



Report to: Greater Cambridge Partnership Executive Board 20th March 2019

Lead officer: Peter Blake, Transport Director

RURAL TRAVEL HUBS

1. Purpose

- 1.1. Rural Travel Hubs (RTHs) are small flexible transport interchanges at key rural locations that allow more people to access sustainable transport networks. They aim to reduce the level of private car usage between Cambridge and the surrounding villages by providing and enhancing links to sustainable transport options, and by enabling connections between neighbouring villages and towns.
- 1.2. RTHs support the Greater Cambridge Partnership's (GCP) vision of creating better, greener transport networks, connecting people to homes, jobs and study, and supporting economic growth.

2. Recommendations

- 2.1. The Executive Board is recommended to:
 - (a) Note the outcome of the Oakington and Sawston Rural Travel Hub public consultation and engagement;
 - (b) Develop a detailed design and seek planning consent for a pilot Rural Travel Hub at Oakington based on Option 1 (with general parking);
 - (c) Explore the opportunities for alignment of a Rural Travel Hub site at Sawston with the Cambridge South East Transport Scheme;
 - (d) Note the conclusions of the Whittlesford Station Masterplan study and initial stakeholder feedback;
 - (e) Undertake public consultation on the Whittlesford Parkway Station Masterplan and develop a draft delivery plan, with a report to come back to a future Executive Board.

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 focused much of its discussion on the Oakington RTH proposal, although did not reach a consensus view. A written statement was received from Oakington and Westwick Parish Council expressing concerns about the proposal (see section 4). Joint Assembly members raised concerns about the proposal appearing to have created division between communities, particularly Oakington and Cottenham.
- 3.3. There was a suggestion that the RTH proposal more broadly was a distraction from more transformative interventions.

3.4. Support was expressed for the Whittlesford Masterplan proposals. The recommended next steps for the project would facilitate capturing views and concerns such as these on the proposed package, in addition to those already received, to inform the development of a plan for delivery.

4. Key issues and considerations

- 4.1. In spring 2018 a feasibility study was published with recommendations for pilot RTHs in Oakington, Sawston and Whittlesford. The Executive Board agreed to progress proposals for Oakington and Sawston, with Whittlesford Parkway Station to be the subject of a transport masterplanning exercise to understand all local transport issues. Initial engagement took place with the public and stakeholders in Oakington, Sawston and surrounding villages in summer 2018 to gather feedback on potential pilot RTHs for these communities.
- 4.2. The Oakington and Sawston pilot RTHs interface with other GCP projects, with the Oakington site linking to the St Ives Greenway and the Sawston site (depending on preferred option) linking to the Sawston Greenway and Cambridge South East Transport Scheme.

Oakington Rural Travel Hub

- 4.3. Detailed proposals for a pilot RTH at Oakington have recently been the subject of local public consultation. This consultation presented two options which emerged from earlier stakeholder engagement: one with 38 general parking spaces (option 1) and one without general parking spaces (option 2). Both options included three disabled bays as well as cycle lockers, a bus shelter with Real Time Passenger Information and a bus turnaround area.
- 4.4. The consultation received 349 responses, with 82% supportive of the proposals. The full consultation report can be found here">here the overall response by option was:
 - Option 1: 73% support, 25% opposition.
 - Option 2: 42% support, 49% opposition.
- 4.5. In contrast to the preference for option 1 expressed at public consultation, Oakington and Westwick Parish Council submitted feedback to the consultation stating that it would only support a RTH if it was based entirely upon public transport and cycling (i.e. with no parking provision). The Parish Council is concerned about attracting additional traffic through the village, and states that it is prepared to support a Hub which meets certain conditions (see Appendix 1). It has also expressed concern that the RTH would lead to increased local traffic. The area is expected to see traffic growth without the RTH as a result of housing development in the area, some of which can be captured by the RTH. Consultation feedback was not submitted by any other Parish Council.

Sawston Rural Travel Hub

4.6. A site adjacent to Cambridge Road (north of Sawston) was originally identified for development, however feedback received during stakeholder engagement demonstrated little support for that site. Alternative sites in Sawston were suggested by stakeholders, which have now been the subject of a further feasibility study to assess their potential in comparison to the originally identified site. The full report can be found here.

Table 1: Prioritised list of potential Sawston Rural Travel Hub sites

Location of RTH Babraham Road (east of Sawston) – approx. 300m east Cambridge Road (north of Sawston) – original proposed site London Road (south of Sawston) – between the A1301 and London Road Spicers Corner (north west of Sawston) – west of the A1301

- 4.7. The higher score for the Babraham Road site is influenced by its closer proximity to potential users and its proximity to the Cambridge South East Transport Scheme's strategy 1.
- 4.8. All of these sites would require some modification of existing bus routes, although the modifications required to serve the Babraham Road site would be significantly greater than those to serve the London Road or Cambridge Road sites. Discussions undertaken with Stagecoach suggest that existing services could serve the Cambridge Road or London Road sites with only small adjustments, however the Spicers Corner site would require a more significant adjustment and the Babraham Road site would require an additional bus and driver (for which funding would be required), as well as increasing journey times for passengers in general.

Whittlesford Parkway Station Masterplan

- 4.9. Whittlesford was initially identified as a potential site for a pilot RTH in the feasibility study. However, due to the level of usage, the range of issues and the number of planned developments in the area the Executive Board agreed that a comprehensive transport masterplanning exercise should be undertaken. It also committed £70k for the provision of additional cycle parking for 200 bikes at Whittlesford Parkway Station, as match funding towards a £700k Greater Anglia-led bid for DfT grant funding.
- 4.10. The <u>Stage 1 Baseline Report</u> highlights the current situation in the area surrounding Whittlesford Parkway Station and identifies a long list of options.
- 4.11. The <u>Stage 2 report</u> has now been completed. This sets out proposals, the delivery of which will see the creation of a modern, accessible rural interchange. This report identifies the following key issues:
 - Lack of step free access between platforms
 - The safety and functioning of Station Road East.
 - Poor accessibility of the station by bus.
 - Congestion and severance issues on the A505.
 - Quantity, quality and location of parking provision.
 - Sustainable transport access from Duxford.
- 4.12. The long list of schemes identified in the Stage 1 Report has been assessed in Stage 2 in line with the overarching objectives of the Masterplan and the specific issues to be addressed at the Parkway site. A preferred package of measures to transform the capacity and connectivity of the Parkway site has been identified. The prioritised list of schemes comprising that package is shown in Appendix 2.
- 4.13. Stakeholders' initial views were invited on the Stage 2 report ahead of this meeting cycle which are summarised in Appendix 3. The comments received are broadly supportive with several specific comments relating to the report and individual schemes.
- 4.14. Initial discussions with Stagecoach suggest that it would be willing to serve the station with the Citi 7 service if a bus turning circle pagevite station Road East.

5. Options

Oakington Rural Travel Hub

- 5.1. Two options were the subject of recent local public consultation. Both options include:
 - 3 disabled parking spaces;
 - Cycle lockers;
 - Bus turnaround;
 - Bus stop with shelter and Real Time Passenger Information board;
 - Drop off zone; and
 - Speed cushions.
- 5.2. In addition to the above, option 1 includes 38 general parking spaces. As per paragraphs 4.4-4.5, the consultation showed stronger support for option 1 however Oakington and Westwick Parish Council has stated its opposition to that option.

Sawston Rural Travel Hub

- 5.3. As outlined above, four options have been considered for a potential pilot RTH in Sawston (the originally identified location at Cambridge Road, and three additional options arising from local engagement). These have been assessed and prioritised, as shown in table 1, and are explained more thoroughly in the <u>full report</u>.
- 5.4. As local stakeholders have not yet had a chance to comment on the feasibility study, the Executive Board is recommended to defer consideration of a RTH site at Sawston to allow for further local engagement to reflect on the study findings and to explore how the provision of a RTH in Sawston could be aligned with the Cambridge South East Transport Scheme.

Whittlesford Parkway Station Masterplan

- 5.5. The Stage 2 report identifies a range of potential schemes for delivery by the various organisations involved, including among others GCP and the rail industry. The Executive Board is recommended to undertake local public consultation on Masterplan in early summer 2019 and develop a plan for the delivery of the schemes that takes into account the consultation responses and the initial stakeholder comments received recently.
- 5.6. The Executive Board could alternatively opt to progress some of the schemes identified in the Stage 2 report, however this is not recommended at this point as the whole package has not yet been subject to public consultation, and that would mean progressing without the context and recognition of opportunities associated with a comprehensive delivery plan for the wider package.

6. Next Steps and Milestones

6.1. If the Executive Board supports the recommendation for the Whittlesford Parkway Station Masterplan, the results from public consultation and a draft delivery plan would be put before the Board at its December meeting.

7. Implications

Financial and Other Resources

- 7.1. The Executive Board has previously committed to provide up to £400k in match funding towards a Greater Anglia-led bid to the Department for Transport's 'Access for All' initiative for the construction of a lift and new footbridge at Whittlesford Parkway Station at an estimated cost of £4million. The outcome of this bid is expected in April.
- 7.2. The Executive Board has also agreed to commit £70k for the provision of additional cycle parking for 200 bikes at Whittlesford Parkway Station, as match funding towards a £700k Greater Anglia-led bid for DfT grant funding.

Legal

7.3. The proposals relating to Whittlesford Parkway Station cover an area that includes two listed buildings (Duxford Chapel and the Red Lion Hotel), which requires careful consideration. The Stage 2 report recognises the potential impact of a decked car park on Duxford Chapel, however this is expected to be mitigated by the bus turning circle providing a physical gap, by the treatment of the façade closest to the chapel, and by a line of tree planting.

Climate Change and Environmental

7.4. The recommended measures are expected to enhance the attractiveness, accessibility and connectivity of public transport in parts of South Cambridgeshire, reducing reliance on the private car and encouraging the use of more environmentally sustainable transport modes.

Consultation and Communication

- 7.5. The Oakington RTH site was the subject of a local public consultation that ended on 7 January 2019. The full consultation report is available here.
- 7.6. The consideration of three alternative options for a potential Sawston RTH arose from public engagement on the originally developed option (Cambridge Road).
- 7.7. Early stakeholder views have been sought on the Whittlesford Parkway Station Masterplan Stage 2 report in January 2019. Comments received during that time are summarised in Appendix 3.

Background Papers

Oakington Rural	https://citydeal-
Travel Hub	live.storage.googleapis.com/upload/www.greatercambridge.org.uk/transpo
consultation report	rt/transport-
	projects/Oakington%20Rural%20Travel%20Hub%20Consultation%20Report
	<u>.pdf</u>
Sawston Rural	https://citydeal-
Travel Hub	live.storage.googleapis.com/upload/www.greatercambridge.org.uk/transpo
feasibility study	rt/transport-projects/RTH%20Sawston%20Feasibility%20Report%20v3.pdf
Whittlesford	https://citydeal-
Parkway Station	live.storage.googleapis.com/upload/www.greatercambridge.org.uk/transpo
Masterplan Stage 1	rt/transport-
Baseline report	projects/Whittlesford%20Parkway%20Station%20Masterplan%20Stage%20
	One%20-%20Baseline%20Report%2015%2011%2018.pdf
Whittlesford	https://citydeal-
Parkway Station	live.storage.googleapis.com/upload/www.greatercambridge.org.uk/transpo
Masterplan Stage 2	rt/transport-
report	projects/Whittlesford%20Parkway%20Stage%20Two%20Report%20-
	%20Final.pdf

Appendix 1 Oakington and Westwick Parish Council conditions and project team comment

Parish Council condition	Comment
That it is a public transport hub only, with a bus	Both options include a bus turning circle, but
turning circle.	option 1 also includes parking.
That it has secure cycle storage.	Cycle lockers are included in both options.
	Stagecoach has indicated that it would be
That the Citi 6 bus service is extended such that	willing to re-route the Citi 6 route to serve the
the Hub becomes the terminus.	Hub, in place of serving Oakington High Street
the ridb becomes the terminus.	(which the Parish Council has previously
	indicated it would accept).
	This project scope does not include ticketing
That through ticketing arrangements are	arrangements, although the Citi 6 and Busway
devised.	services are covered by Stagecoach's
	Megarider tickets.
	It is anticipated that cycleway improvements in
That the proposed cycleways to Cottenham and	the immediate vicinity of the RTH would be
into Oakington are built contemporaneously	delivered as part of the project. The provision
with the construction of the Hub.	of a new cycleway link between Oakington and
	Cottenham is under consideration as part of
	the Greenways project.
Parking restrictions need to be introduced in	The provision of parking restrictions to
Oakington and Westwick to prevent commuters	discourage any overspill parking could be
parking in the surrounding streets, enforced at	considered as part of the project delivery.
no cost to the Parish Council.	· · · · ·
GCP must provide a commitment to maintain	The Hub will be maintained by GCP or partner
the Hub.	agency.

Whittlesford Parkway Station Masterplan – prioritised list of schemes

Ref.	Scheme	Priority
GT.11	Station Road East junction signalisation and widening	High
PRK.02	Redevelopment of the main station car park	High
PT.02	Bus turning circle	High
AT.02	Lift and new footbridge	High
AT.04	Cycle parking	High
AT.07	Electric bike charging points	Medium
AT.11	Shared use path on London Road, Sawston	Medium
GT.09	A505 / A1301 McDonalds roundabout signalisation	Medium
GT.10	Reduced speed limit on the A505	Medium
GT.12	Signalisation of the A505 / Moorfield Road junction	Medium
GT.16	Station Road West 20mph zone	Medium
PRK.06	Reconfiguration of 'side car park'	Medium
PRK.10	On-street parking restrictions	Medium
PT.08	Public transport information	Medium
PT.09	Integrated ticketing	Medium
PT.10	Bus waiting facilities	Medium
AT.03	Station facilities	Medium
AT.06	Cycle hire facility	Medium
AT.09	Pedestrianisation of Station Road East	Medium
AT.18	Public realm enhancements on Station Road West	Medium
AT.12	Widen the shared use path alongside the A505 between Station Road and the A1301	Medium
AT.17	Continuous footway from Duxford Chapel to the junction with the A505	Medium
AT.19	Improved footways on Royston Road and Station Road West	Medium
AT.20	Cycle lanes on both sides of Station Road West	Medium
AT.25	Signalised crossing on the A505 at Moorfield Road	Medium
AT.31	Shared use path to the IWM via M11 J10	Medium
GT.06	Autonomous vehicle link to the Wellcome Genome Campus	Longer Term
GT.15	Royston Road one-way traffic	Longer Term
PRK.13	Bollards to restrict verge parking on Duxford Road	Longer Term
PRK.14	Formalise on-street parking on Royston Road	Longer Term
AT.13	Cycle path between Highway Depot and Mill Farm Lane	Longer Term
AT.21	Contra-flow cycle lane along Royston Road	Longer Term
AT.29	Multi-modal corridor to the Wellcome Genome Campus	Longer Term

Whittlesford Parkway Station Masterplan Stage 2 report Summary of initial local stakeholder comments

Overarching

- Recognition of the important contribution the station can make to the area as a true travel hub through the proposed improvements.
- Concern that the masterplan does not look far enough into the future.

Links to other schemes

 Suggestion further consideration should be given to links with proposals for the Cambridgeshire Autonomous Metro and for a wider A505 multi-modal study.

Prioritisation

- Suggestion of prioritising cycling and public transport interventions in particular.
- Concern that the A505/Moorfield Road junction has not been given the same priority as the A505/Station Road East junction.

Funding

• Concerns that linking funding of the package to developer contributions risks delaying the package's delivery, given the uncertainty about what will be included in the next Local Plan.

Bus services

• Emphasis on the need for the station to be adequately served by bus services, utilising the infrastructure that is delivered. in order for it to act as a true travel hub.

A505 and junctions

- Concern that signalising multiple junctions on the A505 could damage traffic flow and cause tailbacks on the M11 and smaller roads.
- Emphasis on the need for the A505/A1301 roundabout to be comprehensively designed in view of the full suite of nearby development proposals.
- Suggestion that the proposal for the A505/A1301 roundabout does not comply with design and road safety standards.
- Emphasis on the need for safe pedestrian and cycle crossings of the A505.

Car parking

- Concern that the main car park proposal would have insufficient capacity.
- Suggestion of reducing the main car park size by one deck to reduce its impact on Duxford Chapel.
- Suggestion that the current Depot sites would be a more appropriate location for the main car park.
- Concern that the proposed reduction in parking to the west of the station would have negative impacts, with a suggestion that the main car park in fact needs 1,000-2,000 spaces.
- Concern about the main car park proposal's visual amenity and traffic levels.
- Concern that the proposed linear provision of disabled parking to the west of the station could mean a long walk for some people who are less physically able.
- Suggestion that formalising on-street parking on Royston Road should be made a medium or high priority.
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Bus turning circle

- Widespread support for a bus turning circle and its contribution to making the station a true multi-modal travel hub.
- Concern that the proposed turning circle is too tight to allow for multiple buses.
- Concern that the proposed bus stops would not be prominent enough from the platform, as well as the lack of cover between the platform and the bus stops.
- Suggestion that the bus turning circle should not wait to accompany the redevelopment of the main car park and A505/Station Road East signalisation as, whilst the combination of those interventions will bring the greatest benefits, there are bus services (including shuttle buses) that would benefit from the turning circle ahead of those other interventions.

Lift and new footbridge

- Widespread support for the proposal in improving access between platforms.
- Suggestion that the new footbridge should include a ramp to better facilitate crossing the bridge with bikes.

Cycling and walking interventions

• Support for the provision of pedestrian and cycling infrastructure, including the pedestrianisation of Station Road East and the links to Sawston.

One-way traffic on Royston Road

• Concern that the proposal does not allow for slow-moving, wide farm machinery that needs to access the land particularly on the north side of the road.

Perceived omissions

- Suggestion of providing enhanced cycle connectivity along Moorfield Road to Duxford.
- Concern that insufficient allowance is made for interchange to the west of the station, with a suggestion that at a minimum the existing bus stops on Duxford Road should be moved closer to Station Road West to reduce walking distances.
- Suggestions that the plans should include suitable 'drop off areas', which can cater for taxis as well as car sharing, etc.
- Concern about the absence of electric vehicle charging points in the plans.
- Concern that the delivery of Cambridge South Station will increase parking demand at and around Whittlesford Parkway.
- Suggestion that M11 junction 9 should be upgraded to allow the A505 to be downgraded.