# Preston Western Distributor

Outline Business Case - Independent Review Lancashire County Council

21 December 2017

# **Notice**

This document and its contents have been prepared and are intended solely for Lancashire County Council's information and use in relation to the Independent Review of the Outline Business Case of the Preston Western Distributor.

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This document has 24 pages including the cover.

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# 1. Introduction

#### 1.1. Overview

Atkins has been commissioned by Lancashire County Council to undertake an independent review of their business case submissions which will be put forward to the Lancashire Enterprise Partnership (LEP) to seek and obtain funding via the Local Growth Deal.

We have created a scrutiny framework to review the business case submissions which has been developed based on the Department for Transport business case guidance. The guidance details how each case model is expected to address certain aspects of the scheme in the submission. Each case model within the business case has been assessed against those aspects and judged on how well they are addressed.

In line with the LEP's Accountability Framework, it is recognised that a proportionate approach to the development of the business cases under review has been applied in the submitted business case documents. For schemes where the total costs are less than £5m, only a strategic outline business case has been developed, however, it is acknowledged that as these schemes are still seeking funding in full, some elements of outline and full business case submissions are required.

This document presents our review of the Preston Western Distributor Outline Business Case.

#### 1.2. Methodology

The developed scrutiny framework has been based on a colour coded system that provides a transparent mechanism in assessing each case. Each individual aspect of the case model is given a colour of green, amber or red depending on:

- How well it has been addressed in the submission;
- How relevant it is in relation to the scheme: and
- How well it meets the acceptability criteria set out in the DfT guidance and LEP Accountability Framework.

Table 1-1 Ranking mechanism of the scrutiny framework

Element under scrutiny	Colour/ Score	Description
Requirements fully met	1	No issues of note with the submission. Project to progress as scheduled.
Requirements substantially met	2	Minor issues exist with the submission. Project to progress and issues to be resolved.
Requirements partially met	3	Medium issues exist with the submission. Project to progress and issues to be resolved urgently.
Requirements not met	4	Critical issues exist with the submission. Project to be suspended whilst issues are resolved.

The schemes receive an overall colour and rating to show the general acceptability level of each case. The individual aspects to be assessed align with the outline business case template provided by the Lancashire Enterprise Partnership under the five case models, as shown in Table 1-2.

Table 1-2 Aspects of the scrutiny framework

Case	Element	Aspects for scrutiny
	Strategic context  Challenge or opportunity to be addressed  Strategic objectives	<ul> <li>Aims and objectives of the promoting organisation</li> <li>What is driving the need to change at a strategic level</li> <li>The scope of work is clearly defined</li> <li>All the current and future problems are identified</li> <li>Key characteristics of the challenge to be addressed and the opportunity presented</li> <li>A clear set of scheme objectives are defined</li> <li>The objectives are well supported by evidence of problems and issues</li> <li>Alignment with local, sub/regional and national development</li> </ul>
Strategic Case	Achieving success	<ul> <li>policy are established</li> <li>The objectives are pragmatic and achievable</li> <li>The existing arrangements cannot be better utilised without implementing fundamental changes</li> <li>Experience is drawn from past project of similar nature</li> <li>Scheme dependencies on any committed development and other adjacent major schemes are explored</li> <li>Likely impact of "Do Nothing" scenario is presented</li> <li>There is clear evidence to show the urgency of the scheme</li> <li>Risks identified though the consultation process</li> </ul>
	Delivery constraints  Stakeholders	<ul> <li>Synergy with other relevant schemes</li> <li>List of stakeholders consulted or to be consulted in the course of the business case development</li> <li>A clear communication strategy</li> <li>Summarised outcomes of any consultation undertaken</li> </ul>
	Strategic assessment of alternative options	<ul> <li>List of all the alternative options considered</li> <li>The optioneering report is consistent with the defined scope and objectives</li> <li>Option sifting process</li> <li>Assessment of opportunities and constraints of the options</li> <li>Detailed selection process of "Preferred", "Next Best" and "Low Cost" option</li> </ul>
	Value for money	Compliance with DfT WebTAG guidance
Economic Case	Economic assumptions	<ul> <li>WebTAG version</li> <li>Price base year of the cost</li> <li>Market price</li> <li>Discount rate and year</li> <li>Forecast year</li> <li>Opening year</li> <li>Appraisal period</li> <li>Traffic growth</li> <li>Safety assumptions</li> <li>Environmental assumptions</li> </ul>
	Sensitivity and risk profile	<ul> <li>Cost of alternative options</li> <li>Cost allocation profile</li> <li>Inflation</li> <li>Quantified Risk Assessment (QRA)</li> <li>Optimism Bias consideration and justification</li> <li>Consistency of cost with other scheme of similar size and nature</li> <li>Operating cost</li> <li>Maintenance cost</li> <li>Renewal cost</li> </ul>

Case	Element	Aspects for scrutiny
	Value for money statement	<ul> <li>Benefit Cost Ratio (BCR)</li> <li>Net Present Value (NPV)</li> <li>VfM category</li> <li>Economic assessment (TUBA) input and output information</li> </ul>
	Appraisal summary table	<ul> <li>Annualisation approach</li> <li>Assessment of safety benefits</li> <li>Assessment of social benefits</li> <li>Assessment of environmental impact</li> <li>Assessment of distributional impact</li> <li>Cost to broad transport budget</li> <li>Indirect tax revenue</li> </ul>
	Affordability assessment	Assessment of affordability of all options
Financial	Financial costs	<ul> <li>Construction period</li> <li>Opening year</li> <li>Inflation</li> <li>Base cost</li> <li>Possible funding requirement</li> <li>Quantitative risk assessment</li> <li>Justification of optimism bias</li> <li>Adjusted scheme cost</li> </ul>
Case	Financial cost allocation	<ul> <li>Required funding by year</li> <li>Funding mechanism</li> <li>Available fund by different sources</li> <li>Alternative sources of fund</li> </ul>
	Financial risk	<ul><li>Quantitative risk assessment</li><li>Justification of optimism bias</li></ul>
	Financial risk management	Justification of funding profile by different sources
	Financial accountability	Funding risk allocation and ownership.
	Commercial case	Approach taken to assess commercial viability
	Procurement strategy	<ul> <li>Procurement strategy</li> <li>Identified key stages of the procurement process</li> <li>Alternative procurement strategy</li> <li>Detail of the payment mechanism</li> </ul>
Commercial	Identification of risk	Identification of risk
Case	Risk allocation	Allocation of risk
	Contract management	<ul> <li>Procurement mechanism and its programme</li> <li>Risk allocation and transfer</li> <li>Promoter's procurement experience</li> <li>Benchmark with other procurement processes of similar schemes</li> </ul>
	Governance	<ul> <li>Project promoter is established in the document</li> <li>Clear management structure for the scheme delivery</li> </ul>
	Go/No-go and decision milestones	Key decision points identified.
Management	Project programme	<ul> <li>Project delivery programme, key milestones and dependencies</li> </ul>
Case	Assurance and approvals plan	<ul><li>Reporting protocol and subsequent approval procedure</li><li>Assurance of resource availability and allocation</li></ul>
	Communications and stakeholder management	<ul> <li>Communication strategy between different parties</li> <li>History of stakeholder consultation and the outcome</li> </ul>

Case	Element	Aspects for scrutiny			
	Programme/ project reporting	<ul> <li>Project delivery programme, key milestones and dependencies</li> <li>Reporting risks and programme delivery</li> </ul>			
	Risk management strategy	<ul> <li>Reporting procedure of risks</li> <li>Delivery risks mitigation measures</li> <li>Risk ownership</li> <li>Benchmark of risk mitigation measures from similar past projects</li> <li>Any contingency measures required for risk mitigation</li> </ul>			
	Monitoring and evaluation	<ul> <li>Approach to managing realisation of scheme benefit</li> <li>Approach to post scheme implementation evaluation</li> <li>Post implementation cost consideration</li> </ul>			
	Project management	Overall approach to project management			

# 1.3. Structure of Report

Following this introduction, this report contains the summary of the review in Chapter 2, structured as follows:

- Scheme description;
- Strategic case review;
- Economic case review;
- Financial case review;
- Commercial case review;
- Management case review; and
- Review summary

**Appendix A** contains the detailed notes under each case which have formed the overall review of this scheme.

# 2. Scheme Review

#### 2.1. Scheme Description

An outline business case has been developed for the Preston Western Distributor (PWD) scheme.

The proposed scheme is a key component of the programme of measures set out in the Central Lancashire Highways and Transportation Masterplan (CLHTM) that collectively will support the scale of development set out in the approved Central Lancashire Core Strategy and will mitigate its impact on the transport network.

The PWD preferred option consists of construction of a new 4.3km dual carriageway road to support delivery of the North West Preston strategic housing location (5,000 new homes) and improve access to both the Strategic Road Network (SRN) in Northwest Preston, and to/from the Enterprise Zone at Warton.

The scheme includes a new all move junction with the M55 (Junction 2). It also provides direct links into existing Cottam development areas, the potential Cottam Parkway Rail Station and direct connection to the East West Link (EWL) Road. The PWD scheme will also include a combined cycleway footway along the eastern side of the proposed scheme between the A583 and the proposed EWL Road which would tie into existing footpaths and cycle facilities.

As part of the scheme several minor roads (e.g. Lea Road, Sidgreaves Lane) will be altered in the provision of a new roundabout to connect north/south and to/from the EWL Road. The EWL Road provides the spine through the Strategy Housing Development and therefore provides connectivity to the PWD of the 5,000 new homes proposed. Additionally, it connects the PWD scheme directly with existing highway network at Lightfoot Lane. The EWL Road is a separate scheme and not included in the PWD scheme.

The scheme is one of the four major highways schemes in the Preston, South Ribble and Lancashire City Deal and is in Transport for Lancashire's (TfL's) agreed and prioritised Investment Programme.

The outline business case for this scheme has been developed by Lancashire County Council and was submitted for this independent review in December 2017. The scheme promoter is Lancashire County Council.

## 2.2. Strategic Case

The strategic case presents a clear description and case for the scheme, linking into the aims and objectives of the Lancashire Strategic Economic Plan. The scope for the project is clear, which has allowed for the identification of potential constraints and interested stakeholder demands. The scheme has strong and broad political support and has been subject to comprehensive consultation through the planning process.

A planning application for the scheme was submitted in May 2016, and an update on its current status would be beneficial to this case. The scheme is interdependent with the EWL Road, which is a vital component in relation to housing growth. Further details regarding the delivery of this link would be of benefit to this case.

A total of twenty options have been considered for this scheme, and following an initial sifting process and then a secondary sift, which assessed each option against the supporting objectives and potential scheme costs, a preferred scheme was identified.

#### 2.3. Economic Case

The Value for Money (VfM) statement reports a BCR of 2.29, which is classified as 'High VfM' by the Department for Transport.

The benefits for the scheme have been derived from a SATURN model known as Central Lancashire Transport Model (CLTM), which has a base year of 2013 and includes AM, Inter Peak and PM peak time periods. The base year model generally accords with the required WebTAG criteria.

The forecast traffic models have been developed for 2019 and 2041 as the schemes' opening and design years respectively. The opening year has subsequently moved to 2022 with 2037 being expected to be the new design year. The traffic growth used to construct future years' trip matrices is based on forecasts in the prevailing National Trip End Model (NTEM) 6.2 for cars and Road Traffic Forecasts (RTF) 2015 for goods vehicles. There have been newer TEMPRO 7.2 guidance as well as new values of time and vehicle operating costs since completion of the scheme forecasts. A series of sensitivity tests have been undertaken to investigate the effect on the scheme BCR including travel demand variation, new guidance and the inclusion of trips generated by dependent development. The reported BCRs for these tests showed a range of 2.01 to 2.66. It is expected that the Final Business Case (FBC) will be produced based fully on prevailing guidance at the time of submission.

A total of 20 options as stated above were identified in the business case (including the preferred option). The economic appraisal was however limited to the Core and Low-Cost options.

The Present Value of Costs (PVC) for the proposed schemes is £138.48m which includes construction, risk allocation and maintenance costs as well as an allowance of Optimism bias of 15%. The Present Value of Benefits (PVB) is reported as £317m with £273.8m resulting from benefits associated with user time savings, changes in vehicle operating costs and indirect tax revenues. The remaining net benefit of £43.2m arises from other monetised transport elements including construction and maintenance delay benefits; accident savings; air; noise and greenhouse savings.

The increase in the GVA of the local economy associated with the proposed scheme has been derived as £144.1 million over the 60-year period which consists of £104.5m from unlocking development; £28m from Agglomeration and £10.8m output change in competitive markets.

A full AST table has been provided with all scheme impacts and these have been assessed. Over 5,000 new homes are dependent on, or unlocked by, the PWD scheme. These form the basis for calculating the indirect jobs created to support the new residents, which shows a forecast increase in GVA to the local economy of £144.1m over a 60-year period that can be directly related to the PWD scheme. This comprises £104.5m in unlocked development, £23m in agglomeration (Preston), £5.8m in agglomeration (Warton), and £10.8m output change in imperfectly competitive markets.

The Distributional Impact (DI) assessment showed that all income quintiles will receive a positive impact for the User Benefits and Air Quality. The most deprived areas will experience a positive impact on personal affordability. Most income groups will benefit from decrease in noise levels with the scheme in place. Children are expected to receive a slight beneficial effect from reduction in noise levels and accidents and improvement in air quality. There will also be a reduced number of accidents and thus casualties among the older people, pedestrians and cyclists.

#### 2.4. Financial Case

The scheme delivery budget is estimated to be £161.6m, with £58m to be funded by the Lancashire Growth Deal, £25m to be funded by Highways England's Route Improvement Strategy (RIS) and £89.9m committed as part of the Preston, South Ribble and Lancashire City Deal. The scheme delivery budget includes £8.433m QRA, although it is considered that as a consequence of the risk register appearing to include the EWL Road risks may be overstated, and 15% optimism bias as required by WebTAG guidance.

Assurance is provided via a letter from Highways England regarding commitment of RIS funds, and the scheme promoter's Section 151 officer has confirmed the Council's ability to underwrite the impact of any timing difference in relation to receipt of City Deal funding and any subsequent scheme cost increase.

The submission details the key financial risks associated with the delivery of the scheme, although the risk register appears to contain risks for both the PWD and EWL Road and therefore may overestimate the overall risks for the PWD scheme.

A spend profile has been presented appropriately within the case, although it could benefit from more details regarding the parties on whom the costs fall within the profile.

#### 2.5. Commercial Case

The commercial case sets out a clear procurement strategy based on the existing procurement routes used within Lancashire County Council. An Early Contractor involvement (ECI) approach has been selected and the rationale for selecting NEC3 Option C (Target Cost and Activity Schedule) is sound, with financial risks shared between client and contractor in an agreed proportion. The procurement strategy is supported by a letter from the scheme promoters Section 151 Officer.

A clear project programme has been presented as part of the submission including procurement and contract timescales. Programme dates are also presented in the management case in a slightly different format and these could benefit from being standardised.

Risk assessment and allocation are presented in the risk register, which is under joint ownership as part of the ECI approach.

#### 2.6. Management Case

The management case provides a clear governance and organisational structure suitable for managing this scheme, including technical discipline leads. The responsibilities of the named individuals are substantially defined and the reporting mechanisms and lines of communication are clear including the procedures for obtaining scheme approval.

A detailed risk register presents the quantification and management of risk, although it appears that this could be overestimated due to the inclusion of risk for the EWL Road. The communication strategy is currently being developed for the scheme and will be made available in advance of the funding decision. The PWD scheme has already been the subject of significant consultation to date through the planning process.

A logic map has been developed which provides an overview of how the outcome of the scheme will be realised, and a simple outline monitoring and evaluation plan has been defined to monitor the scheme objectives. This will be updated and made available in advance of any funding decision.

## 2.7. Review Summary

This review represents Atkins' independent scrutiny of the Outline Business Case (OBC) for the Preston Western Distributor scheme. The scheme, which is being promoted by Lancashire County Council, is seeking Conditional Approval from the Lancashire Local Enterprise Partnership (LEP) and funding via the Local Growth Deal.

The submission demonstrates that the project has been developed to the expected standard in most areas. A number of outstanding issues will need to be addressed in advance of the Full Business Case submission. These include securing the land required for the construction of the scheme, finalising the target price with the proposed contractor, modelling to be undertaken using new guidance and obtaining 'sign off' from the DfT.

Atkins has been in dialogue with the scheme promoter and their transport consultants as the scheme has progressed and the business case (and supporting documents) have been subject to a series of updates culminating in the final submission document received on 7<sup>th</sup> December 2017.

Overall our recommendation is that the Conditional Approval for this project be granted, with the ability to draw down funds conditional on an updated Full Business Case being submitted for approval.

The review summary table is presented overleaf in Table 2-1.

Table 2-1 Review summary table

Case	Score	Summary
Strategic Case	2	Requirements substantially met
Economic Case	2	Requirements substantially met
Financial Case	2	Requirements substantially met
Commercial Case	2	Requirements substantially met
Management Case	3	Requirements partially met
Overall Score	2	Requirements substantially met

# Appendices



# **Appendix A. Assessment Scores**

# A.1. Summary

This review represents Atkins' independent scrutiny of the Outline Business Case for the Preston Western Distributor scheme. It does not represent a detailed validation of technical analyses. The scheme, which is being promoted by Lancashire County Council, is seeking Conditional Approval from the Lancashire Local Enterprise Partnership (LEP) and funding via the Local Growth Deal. Whilst the OBC contains the key information for seeking the Conditional Approval from the C&W LEP there are a number of outstanding issues which need to be addressed in advance of the Final Business Case submission. These include securing the land required for the construction of the scheme, finalising the target price with the proposed contractor, Modelling to be undertaken using new guidance and obtaining 'sign off' from the DfT.  Atkins has been in dialogue with the scheme promoter and their transport consultants, Jacobs as the scheme has progressed, including face-to-face meetings. Accordingly, the business case (and supporting documents) has been subject to a series of updates culminating in the final submission document received on 7th December 2017.  Atkins is satisfied that the project has been developed to the expected standard in most areas. Overall, it is our recommendation that Conditional Approval for this project be granted.  The Value for Money (VfM) statement reports a BCR of 2.29, which is classified as 'High VfM' by the Department for Transport.	NDEPENDENT REVIE	W				<b>ATKINS</b>
Date of Submission:  07/12/2017  Date of Review:  18/12/2017  LEP Accountability The scheme is seeking Conditional Approval from the LEP and funding towards its £58m cost via the Local Growth Deal. In line with the LEP's Accountability Framework, an Outline Business of Framework: Is required in order to seek Conditional Approval and draw down funds.  The PWD preferred option consists of the construction of a new 4.3 km dual carriageway road, between the M55 and the A583/A5085 Blackpool Road/Riversway, to support delivery of the North West Preston strategic housing location (more than 5,000 dwellings) and improve access to both the Strategic Road Network in Northwest Preston, and to/from the Enterprise Zone at Warton.  SUMMARY SHEET  Overall Score:  2  This review represents Atkins' independent scrutiny of the Outline Business Case for the Preston Western Distributor scheme. It does not represent a detailed validation of technical analyses. The scheme, which is being promoted by Lancashire County Council, is seeking Conditional Approval from the Lancashire Local Enterprise Partnership (LPI) and funding via the Local Growth Deal.  Requirements substantially met - Nio issues of now with the submission, project to progress scheduled.  Requirements substantially met - Mino issues of the presence of the Final Business Case submission. These includes securing the land required for the contains the key information for seeking the Conditional Approval from the CRW LEP there are a number of outstanding issues which need to be addressed in advance of the Final Business Case submission. These includes securing the land required for the contains the key information for seeking the Conditional Approval from the CRW LEP there are a number of outstanding issues which need to be addressed in Advance of the Final Business Case submission. These includes securing the land required for the construction of the scheme, finalising the target price with the proposed contractor, Modelling to be undertaken using new guidance and obtaini	Project Title:		Preston Western Distributor	Scheme Promoter:		Lancashire County Council
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Atkins has been in dialogue with the scheme promoter and their transport consultants, Jacobs as the scheme has progressed, including face-to-face meetings. Accordingly, the business case (and supporting documents) has been subject to a series of updates culminating in the final submission document received on 7th December 2017.  Atkins is satisfied that the project has been developed to the expected standard in most areas. Overall, it is our recommendation that Conditional Approval for this project be granted.  The Value for Money (VfM) statement reports a BCR of 2.29, which is classified as 'High VfM' by the Department for Transport.  In addition, the Outline Business Case identifies an increase in the GVA of the local economy associated with the proposed scheme which amounts to £144.1 million over the 60-year period which consists of £104.5m from unlocking development; £28m from Agglomeration and  The Value for Money (VfM) is a been developed to the expected standard in most areas. Overall, it is our recommendation that conditions that is sues exist with the submission. Project on the progress and issues to be resolved urge progress and issues to be resolved urge.  Requirements partially met - Medium issues exist with the submission. Project on the submission progress and issues to be resolved urge.  The Value for Money (VfM) statement reports a BCR of 2.29, which is classified as 'High VfM' by the Department for Transport.  Requirements not met - Critical issues exist with the submission. Project to be suspended whilst issues are resolved.		represent a deta Approval from the information for sadvance of the F	ailed validation of technical analyses. The scheme, which is being promote the Lancashire Local Enterprise Partnership (LEP) and funding via the Local seeking the Conditional Approval from the C&W LEP there are a number of Final Business Case submission. These include securing the land required f	ed by Lancashire County Council, is seeking Conditional I Growth Deal. Whilst the OBC contains the key of outstanding issues which need to be addressed in for the construction of the scheme, finalising the target	2	Requirements substantially met - Minor issues exist with the submission. Project progress and issues to be resolved.
Requirements not met - Critical issues of amounts to £144.1 million over the 60-year period which consists of £104.5m from unlocking development; £28m from Agglomeration and		face meetings. A submission docu	Accordingly, the business case (and supporting documents) has been subjument received on 7th December 2017.  d that the project has been developed to the expected standard in most a	ject to a series of updates culminating in the final	3	Requirements partially met - Medium issues exist with the submission. Project progress and issues to be resolved urger
amounts to £144.1 million over the 60-year period which consists of £104.5m from unlocking development; £28m from Agglomeration and suspended whilst issues are resolved.				· · · ·		Requirements not met - Critical issues e
		amounts to £14	4.1 million over the 60-year period which consists of £104.5m from unloc		4	· ·

Case	Status	Comments
Case	Status	The Strategic Case demonstrates how the scheme aligns with National Planning Policies, sub-national planning policies and local planning policies including the Central Lancashire Core Strategy, Preston Local Plan 2012-2026, North West Preston Masterplan, and Preston, South Ribble and Lancashire City Deal.
		The Strategic Case provide evidence of the problems that support the need for the intervention. Problems are identified in relation to the operation of the network. The business case provides evidence of low average traffic speeds during the AM and PM peak periods impacting on key arterial and radial routes to and from the City. Existing congestion levels also impact on the Warton Enterprise Zone reducing the overall accessibility of this important site. This has led to the identification of three overarching objectives relating to unlocking housing development land, improving access to the Warton Enterprise Zone and reducing congestion.
Strategic Case	2	A planning application for the scheme was submitted in May 2016, however, no details are provided with regard to the current status of the application. Details of land ownership required for the completion of the scheme are not articulated. The scheme has interdependencies with the provision of the East-West Link Road and the Strategic Case would benefit from further details.
		The main stakeholder groups with an interest in the scheme have been identified. The scheme has strong and broad political support in LCC and has been subject to a comprehensive consultation as part of the planning application process.
		A total of 20 options are identified in the business case (including the preferred option). As part of an initial sifting process these were reduced to seven. A secondary sift then took place which assessed each option against the proposed secondary objectives and potential scheme costs resulting in the identification of the preferred scheme.
Economic Case	2	The Value for Money (VfM) statement reports a BCR of 2.29, which is classified as 'High VfM' by the Department for Transport.  The benefits for the scheme have been derived from a SATURN model known as Central Lancashire Transport Model (CLTM), which has a base year of 2013 and includes AM, Inter Peak and PM peak time periods. A Local Model Validation Report (LMVR) has been produced, setting out the development and validation of the base year model, which has been used as basis to assess the PWD scheme. The base year model generally accords with the required WebTAG criteria.  The forecast traffic models have been developed for 2019 and 2041 as the schemes' opening and design years respectively. The opening year has subsequently moved to 2022 with 2037 being expected to be the new design year. The traffic growth used to construct future years' trip matrices is based on forecasts in the prevailing National Trip End Model (NTEM) 6.2 for cars and Road Traffic Forecasts (RTF) 2015 for goods vehicles. Subsequent to development of the forecast models, new guidance has emerged with NTEM 7.2 and July 2017 Data Book which the latter provides updated values of time and vehicle operating cost. The forecast assignments have been developed using fixed demand approach as opposed to Variable Demand Modelling (VDM). This was based on results of a test undertaken by the scheme promoter which showed that the proposed scheme may not cause inducing new demand or release suppressed demand in the core model area. DfT who is a major stakeholder on this scheme needs to express its view on this aspect of the modelling. It is a possibility that DfT would ask for impact of VDM to be investigated on the modelling results prior to submission of the PWD Final Business Case (FBC). A series of sensitivity tests have been undertaken to investigate the effect on the scheme BCR including travel demand variation, new guidance and the inclusion of trips generated by dependent development. The reported BCRs for these tests showed a range of 2.01 to
		The Present Value of Costs (PVC) for the proposed schemes is £138.48m over a 60-year period which includes construction, risk allocation and maintenance costs. An Optimism bias of 15% has been included in the cost calculations for economic appraisal. The Present Value of Benefits (PVB) is reported as £317m. Out of total PVB, the benefits associated with user time savings, changes in vehicle operating costs, indirect tax revenues amount to £273.8m. The remaining net benefit of £43.2m arises from other monetised transport elements including construction and maintenance delay benefits; accident savings; air; noise and greenhouse savings.  The increase in the GVA of the local economy associated with the proposed scheme has been derived as £144.1 million over the 60-year period which consists of £104.5m from unlocking development; £28m from Agglomeration and £10.8m output change in competitive markets.  The environmental and social impacts associated with PWD have been assessed either quantitively or qualitatively. These have included Noise, Air Quality, Greenhouse Gases, Landscape, Townscape, Historic Environment, Biodiversity, Water Environment, Physical Activity, Journey Quality, and Severance. The majority of scheme benefits are associated with travel time savings for road users. There would be improvement in Safety, Noise and Air Quality. Disbenefits are reported from greenhouse gases emissions and increase in
		vehicle operating costs as well as a small decrease in indirect tax revenue. The reported non-monetised impacts of the scheme are normally shown to be beneficial or neutral except for slight adverse effect on the local landscape, historic environment and water environment and a moderate adverse impact on biodiversity.

Continued overleaf.

Financial Case	2	The case sets out the scheme cost, which has been subject to some independent validation. It includes base costs, risk adjustment at the most robust estimate and 15% optimism bias in line with WebTAG guidance. A spend profile has been included which sets out year on year costs and breakdown by type of cost, but does not specify the parties on whom they fall. The key financial risks have been identified, an evaluation process has been undertaken along with a Monte Carlo Risk Assessment and the 80% probability risk cost has been applied to the base costs for robustness. However, the risk register appears to contain risks for both the PWD and the EWLR and may therefore overestimate the overall risks for the PDW scheme. Funding has been identified for the full scheme costs and evidence has been provided of third party funds, including Highways England RIS monies. No alternative funding has been identified and the LGF monies are subject to having a good business case with high value for money. LCC will cover any increase in funding and this has been agreed in the form of a letter provided by the Section 151 Officer. Limited information is available on the long-term financial sustainability of the scheme and affordability including any ongoing costs for operation, maintenance and major capital renewals.
Commercial Case	2	The case sets out the anticipated procurement strategy and lists the benefits of using this approach along with bodies that widely recognised this as the delivery mechanism for major civil engineering works. It is unclear exactly how the contract is set up, although the case refers to a 3 phase basis and early termination without penalty if value for money is not obtained at all times. Prompt and fair payment mechanisms are referenced, but no details of this are set out. The anticipated payment option/mechanism is stated for Phase 3, but will need to be confirmed prior to Full Business Case. Project Procurement Milestones are set out, but there is some uncertainty around the COP Public Inquiry timescales and a question around how realistic it is to set out the CPO to LCC Cabinet the day after the OBC is submitted to the LEP. A risk workshop has been held and informed a risk register that is a live document with joint ownership, which should lead to cost efficiencies. Contract management details are limited and the timescales are uncertain due to the season of commencement, this will need updating ahead of Full Business Case. The procurement strategy is supported by a letter from the Section 151 Officer, which although it states that the strategy is well established and will protect the authority from unnecessary risk and challenge, while looking to secure value for money through MEAT evaluation criteria, does not specifically reference the contract and early termination arrangements.
Management Case	3	The case sets out the governance structure and project delivery team and the key reporting lines for the programme management and delivery of the scheme. There are inconsistencies in the project programme within the management and commercial cases that need addressing, along with the realistic timescale for making the CPO. Planning permission has been granted, but the scheme is dependent on a CPO and SRO and details around the impacts are not clearly set out in the business case. Details of the reporting, approvals and assurance process are clearly set out. Limited evidence on scheme delivery has been supplied, and there is no information on how lessons learned have been applied to the delivery of this scheme. There is also limited information on the risk management strategy, although a quantified risk register is included that provides details of the risks, owners and mitigation measures. The communications strategy for the PWD is still currently being prepared and needs to be provided ahead of Full Business Case. A logic map has been provided as part of the monitoring and evaluation plan, but it is unclear how supporting objectives 4 and 8 fit into the logic map. In regard to the monitoring and evaluation plan, this sets out the metrics to be measured, but it is unclear how each of the metrics is directly related to measuring if the primary and supporting objectives have been met. The plan also sets out that a value for money assessment will be undertaken upon completion of the scheme, but no details on how this process will be done are included.

Sign-Off		
Reviewer's Signature:	Date:	18/12/2017

# A.2. Strategic Case

EPENDENT REVIEW					<b>ATKINS</b>
Project Title:			Preston Western Distributor		
Permission Sought:		Conditional Approval	Date of Review:		18/12/2017
		STRATEGI	C CASE		
Overall Score	2			1	Requirements fully met - No issues of with the submission.
	The Strategic Case network. The but to and from the C	e demonstrates how the scheme aligns with National Planning Policies shire Core Strategy, Preston Local Plan 2012-2026, North West Prestor e provide evidence of the problems that support the need for the intersiness case provides evidence of low average traffic speeds during the city. Existing congestion levels also impact on the Warton Enterprise Zocation of three overarching objectives relating to unlocking housing de	n Masterplan, and Preston, South Ribble and Lancashire City Deal.  vention. Problems are identified in relation to the operation of the  AM and PM peak periods impacting on key arterial and radial routes  one reducing the overall accessibility of this important site. This has	7	Requirements substantially met - Minissues exist with the submission.
Atkins Comments:	Details of land ow West Link Road a	ation for the scheme was submitted in May 2016, however, no details vnership required for the completion of the scheme are not articulated and the Strategic Case would benefit from further details.	. The scheme has interdependencies with the provision of the East-	3	Requirements partially met - Medium issues exist with the submission.
	A total of 20 optic secondary sift the	older groups with an interest in the scheme have been identified. The somethensive consultation as part of the planning application process.  One are identified in the business case (including the preferred option). In took place which assessed each option against the proposed second the preferred scheme.	As part of an initial sifting process these were reduced to seven. A	4	<b>Requirements not met</b> - Critical issues with the submission.

Ref	Item	Status	Comments
S1	Is there a clear description of the components of the scheme and how it fits with the aims and objectives of the LEP, Local Authorities and DfT?	Fully Met	The proposed scheme includes the following:  • A new 4.5km dual carriageway road between the M55 and the A583/A5085 Blackpool Road/Riversway;  • Construction of a new all moves junction with the M55 (Junction 2);  • Construction of a new roundabout at the A583/A5085 Blackpool Road/Riversway;  • Two new roundabouts for connection with the Cottam Link Road and the East-West Link Road (EWLR); and  • Construction of the Cottam Link Road providing access into Cottam development areas and the potential Cottam.  The Strategic Case demonstrates how the scheme aligns with National Planning Policies, sub-national planning policies and local planning policies including the Central Lancashire Core Strategy, Preston Local Plan 2012-2026, North West Preston Masterplan, and Preston, South Ribble and Lancashire City Deal.
S2	Have the problem(s) the scheme will be addressing been clearly identified – including evidence of the extent of the problem(s), specific barriers / challenges, and how the scheme will overcome them (including the scale of impact)	Requirements Substantially Met	Problems are identified in relation to the operation of the network. The business case provides evidence of low average traffic speeds during the AM and PM peak periods impacting on key arterial and radial routes to and from the City. Existing congestion levels also impact on the Warton Enterprise Zone reducing the overall accessibility of this important site. The business case also states that busses in the study area suffer from poor journey time reliability, although this is predicated on the basis of general congestion rather that direct evidence related to bus journey time data. It is also indicated that accident rates on key routes are higher than the national average and that congestion is adding to air pollution.  It is also identified that there is insufficient highway capacity to release the proposed scale of housing in the area and the growth of employment sites are being constrained by traffic congestion levels. Planning conditions are in place that require upgrades to the highway capacity in order to release large scale housing developments in the area.  The Strategic Case evidence does not include details on the scale of the forecast impact of the scheme relative to the Do Minimum scenario and therefore what impact it would have on the identified problems.
S3	Has the impact of not progressing the scheme been set out, including supporting evidence? Is there adequate rationale to support why the scheme is needed now?	Requirements Fully Met	Without an intervention, evidence indicates that all the identified problems will be exacerbated in the future and will be constraining investment and growth in Central Lancashire.  The business case also makes clear that a high number new homes (5,000+) will not be realised in the absence of the scheme.
S4	Are there a clearly defined set of objectives for the scheme to address the problem(s) identified?	Requirements Fully Met	Three primary objectives have been identified for the scheme, which are stated as being critical to delivery of the Central Lancashire Core Strategy, as follows:  1. Support local economic growth by unlocking housing development in North West Preston;  2. Improve access of the Warton Enterprise Zone to strategic road network and wider labour market catchment; and  3. Reduce congestion and associated delays on the arterial and radial routes within the Preston urban area.  These are supplemented by a further eight supporting objectives which relate to the identified problems.
\$5	Are there any remaining high level internal/external constraints or other factors that present a material risk to the delivery of this scheme?	Substantially	It is stated in the Strategic Case that a planning application was submitted for the scheme in May 2016, however, the current status of this application is not stated although this is referred to in other Cases. No details are provided as to whether or not all the land required to construct the scheme has been secured although it is referenced in other cases that a CPO is required in order to advance the scheme.
\$6	Have any inter- dependencies which may affect the success of the scheme been identified?		The scheme is interdependent with the East-West Link Road (EWLR) which provides the spine through the Strategic Housing Development and therefore provides the connectivity to the PWD of the 5000+ houses proposed. It is stated that the funding arrangements for the two schemes are different and therefore for the purpose of the PWD OBC it is assumed that the EWLR is a separate scheme.  The delivery of the EWLR is a vital component in the successful release of the housing in in the area and the Strategic Case would have benefited from further details regarding the delivery of this link.
<b>S7</b>	Are any links with other schemes clear?	Requirements Partially Met	See comments above.
\$8	Have the main stakeholder groups and their contribution to the project been clearly defined? This should include any potential constraints or conflicts between stakeholders groups.		The main stakeholder groups with an interest in the scheme have been identified. The scheme has strong and broad political support in LCC and has been subject to a comprehensive consultation as part of the planning application process. Where concerns were expressed mitigation measures have been incorporated into the design where possible. However, details of any constraints or conflicts between stakeholder groups are not provided.

Continued overleaf.

S9	Is there a robust	Requirements	A total of 20 options are identified in the business case (including the preferred option). As part of an initial sifting process each of the options have been considered in high level terms
	assessment of different	Fully Met	against the scheme objectives and against a feasibility/deliverability assessment. Following this process seven options were taken forward to a secondary sift which assessed each option
	scheme options, including		against the proposed secondary objectives and potential scheme costs. A summary of the process is included in the Strategic Case with further information provided in a supporting Options
	the reasons for any options		Appraisal report.
	being discounted?		
S10	Have details of stakeholder	Requirements	A consultation Report has been provided including details as to how the scheme has been refined through the consultation and stakeholder engagement process.
	and public consultation	Fully Met	
	been provided?		

# A.3. Economic Case

PENDENT REVIEW					<b>ATKINS</b>
Project Title	e: Preston Western Distributor				
Permission Sought	:	Conditional Approval	Date of Review:		24/11/2017
		ECONOMI	IC CASE		
Overall Score	2			1	Requirements fully met - No issues of with the submission.
	The Value for Mor The benefits for th and includes AM, I validation of the b WebTAG criteria.  The forecast traffic subsequently mov on forecasts in the development of th and vehicle operat (VDM). This was b demand or release	2	<b>Requirements substantially met</b> - Min issues exist with the submission.		
Atkins Comments:	Business Case (FBG guidance and the in A total of 20 option scheme primary of option against the options.  The Present Value costs. An Optimism £317m. Out of total guidance in the present value costs. An Optimism £317m. Out of total guidance in the present value costs.	a possibility that DfT would ask for impact of VDM to be investigated C). A series of sensitivity tests have been undertaken to investigate the inclusion of trips generated by dependent development. The reported in were identified in the business case (including the preferred option bjectives and feasibility/deliverability criteria. A total of 7 options were proposed secondary objectives and potential scheme costs. The economic of Costs (PVC) for the proposed schemes is £138.48m over a 60-year in bias of 15% has been included in the cost calculations for economic all PVB, the benefits associated with user time savings, changes in vehicle effit of £43.2m arises from other monetised transport elements included in thouse savings.	e effect on the scheme BCR including travel demand variation, new I BCRs for these tests showed a range of 2.01 to 2.66.  a). These were subject to two sifting stages initially against the rethen taken forward from this initial process and assessed each momic appraisal was however limited to the Core and Low-Cost period which includes construction, risk allocation and maintenance appraisal. The Present Value of Benefits (PVB) is reported as icle operating costs, indirect tax revenues amount to £273.8m. The	3	<b>Requirements partially met</b> - Medium issues exist with the submission.
	consists of £104.5i The environmenta Greenhouse Gases majority of schem Disbenefits are rep reported non-mor historic environme The Distributional the effects of trans (journey times and The DI assessment experience a posit expected to receiv	e GVA of the local economy associated with the proposed scheme has m from unlocking development; £28m from Agglomeration and £10.8m from unlocking development; £28m from Agglomeration and £10.8m I and social impacts associated with PWD have been assessed either of the scheme associated with travel time savings for road users. There is the properties of the scheme are normally shown to be beneficial or each and water environment and a moderate adverse impact on biodiversity and water environment and a moderate adverse impact on biodiversity. Impacts (DIs) of the proposed scheme have been assessed on different sport. Eight elements of impact have been considered including Noise in vehicle operating costs), Affordability and Accidents.	m output change in competitive markets. quantitively or qualitatively. These have included Noise, Air Quality, nvironment, Physical Activity, Journey Quality, and Severance. The e would be improvement in Safety, Noise and Air Quality. ating costs as well as a small decrease in indirect tax revenue. The neutral except for slight adverse effect on the local landscape, ersity.  Int groups of people, including those potentially more vulnerable to pair Quality, Accessibility, Security, Severance, User Benefits  E User Benefits and Air Quality; The most deprived areas will from decrease in noise levels with the scheme in place. Children are and improvement in air quality. There will also be a reduced	4	<b>Requirements not met</b> - Critical issues with the submission.

Ref	Item	Status	Comments
E1	Has a Value for Money Statement been provided, including a BCR?	Requirements Fully Met	The Value for Money (VfM) statement reports a BCR of 2.29 which is classified as 'High VfM' by the Department for Transport.
E2	Are there any key assumptions relating to how the BCR has been derived?		The benefits for the scheme have been derived from a SATURN traffic model known as Central Lancashire Transport Model (CLTM). The study area of the CLTM extends over a wide area which has been modelled in three different levels of details namely: Area of detailed modelling (Detailed); Rest of fully modelled area (ROFMA) and External Area (the rest of Great Britain).  The model has a Base Year (BY) of 2013 covering AM peak (8:00-9:00), Inter peak (average 10.00-16:00) and PM peak (17:00-18:00). The demand data used in developing of the BY model has been collected using a mixture of observed and synthetic data, constructed following WebTAG guidance. The travel data collected include origin-destination data across twenty six roadside survey locations in and around the study area as well as traffic counts and journey time data. The synthetic demand was established using data sources including from Census, NTS, and employment survey data. The modelled network was created from the ITN network which is provided by Ordnance Survey. The modelled BY assignments by and large satisfy WebTAG criteria in terms of convergence, modelled flows and journey times.  The forecast models were developed using growth predictions from National Trip End Model (NTEM) Version 6.2 for cars and Road Traffic Forecasts (RTF) 2015 for goods vehicles. Forecasting years developed were initially 2019 as Opening Year (OY) and 2041 as Design Year (DY) however later in the assessment the OY was moved 2022. For the Final Business Case (FBC) it is expected that the traffic forecasting and economic appraisal need to be re-undertaken for the finalised OY and DY which are likely to be 2022 and 2037 respectively. The economic appraisal for transport efficiency benefits was undertaken using DfT Transport User Benefits Analysis (TUBA) software version 1.9.8.  There are newer guidance and software including NTEM 7.2, July 2017 Data Book for calculating new values of times and operations and TUBA Version 1.9.9. The scheme promoter has undertaken sensitivity t
E3	Is the basis for the calculation of the Present Value of Benefits (PVB) sufficiently robust?	Fully Met	The total monetised Present Value of Benefits (PVB) for the scheme over a 60 year assessment period is £317m (2010 prices discounted to 2010). The TUBA programme has been used to calculate the benefits in terms of user time savings, changes in vehicle operating costs, indirect tax revenues which amounts to £273.8m. A further net benefit of £43.2m is derived from other transport elements which can be monetised including construction and maintenance delay benefits; accident savings; air; noise and greenhouse savings. The calculations of the schemes' various benefits and its allocation have been undertaken in accordance with WebTAG guidance.

Continued overleaf.

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	Is the basis for the calculation of the Present Value of Cost (PVC) sufficiently robust?	Requirements Substantially Met	The proposed scheme Present Value of Costs (PVC) is £138.48m (2010 prices) over a 60 year period. This comprises the following:  Base cost - this includes preparation, construction, land/property and construction supervision costs.  Risk allocation - the value has been derived from the latest Quantified Risk Assessment (QRA) undertaken by Lancashire County Council and the ECI Contractor (Costain) in July 2017.  Maintenance Costs Estimates: Produced using the typical maintenance profiles, costs, durations and timings for new roads as per the DfT QUADRO manual (DMRB Volume 14).  Optimism bias - this has been applied at a rate of 15% in line with WebTAG guidance (Unit A1.2).
			The basis of cost calculations can be considered satisfactory at this stage of the process (OBC) however should an updated version of the scheme become available prior to submission of FBC, it is expected that the scheme promoter upgrade the submission (FBC) with the latest cost.
			In addition an increase of 15% in the current PVC would result in a BCR which will be just under 2.0 which is a threshold between high and medium value for money.
E5	Has an appropriate level of optimism bias been applied?	Requirements Fully Met	Optimism bias has been applied at a rate of 15% - this is in line with the guidance for schemes at Conditional Approval stage, as set out in WebTAG Unit A1.2. This is considered appropriate as it reflects the scheme cost preparation and likelihood of updating the cost prior to FBC submission.
E6	Has an appropriate level of risk cost been included?	Requirements Fully Met	A Quantified Risk Assessment (QRA) for the PWD has been undertaken by LCC and Costain in order to determine the amount of risk to be applied to the base costs. The latest version of QRA updated in July 2017 has been used for this purpose. The QRA identified about 280 risks attributed to client or contractor. The risks were assessed and where possible addressed introducing mitigation measures leaving about 120 to be addressed. An evaluation process was undertaken to attribute lowest, most probable and highest value to the risks.
			The risks have also been subject to a Monte Carlo Risk Analysis which provides a normal bell curve output with different levels of probability namely 20%, 50% and 80%. The OBC states that for robustness the value of risks associated with 80% probability which amounts to £8.43m has been included into the base cost.
			Should the scheme cost be reviewed prior to FBC submission, it is expected that this exercise is re-undertaken.
	Is the traffic modelling and forecasting approach / tools sufficiently robust? Has relevant supporting		A Local Model Validation Report (LMVR) has been produced, setting out the development and validation of the base year SATURN model, which has been used as basis to assess the scheme. The LMVR has been reviewed for the purpose this scheme. It includes the information on performance of the base year model against the criteria set out in WebTAG Unit M3.1.  The LMVR showed that the model generally accords with the observed data and use of Matrix Estimation has not significantly altered performance of the base year model.
	documentation been provided to substantiate that modelling undertaken		A technical note on the need for Variable Demand Modelling (VDM) has also been submitted for review. Within the criteria defined in WebTAG Unit M2, the model results (comparing the outputs from the fixed and elastic assignments) showed that the scheme may not result in VDM responses and therefore Fixed Demand assignments have been adopted for the forecasting.
	is fit for purpose?		A Traffic Forecasting Report (TFR) has been submitted which set out how the future year matrices were developed, including application of NTEM (TEMPro forecasts 6.2), Road Traffic Forecasts 2015 (for freight) and key developments. Future year matrices have been controlled to national forecasts (TEMPro 6.2 and RTF 2015). The modelling forecast years are currently 2019 and 2041 however the OY has been deferred to 2022.
			Given there is new guidance in place including NTEM 7.2 the consultant acting on behalf of the scheme promoter has agreed that a set of forecast based on the latest guidance would be submitted as part of FBC submission.
			In addition, the scheme promoter has been advised during the review process that there is a need to ensure that DfT and Higwhays England as major stakeholders for the scheme are content with the traffic modelling undertaken so far. It has been discussed at length with the scheme promoter that DfT may require VDM to be introduced to the modelling system prior to submission of FBC even if it is as a sensitivity test.
E8	Have all other modelling assumptions been made clear?	Requirements Fully Met	All assumptions are documented in the LMVR and Traffic Forecasting Reports, which are appended to the business case.
E10	Are TUBA outputs robust?	Requirements Fully Met	The TUBA outputs have been submitted and reviewed.
E11	Have all relevant options been modelled / appraised?	Requirements Substantially Met	A total of 20 options are identified in the business case (including the preferred option). As part of an initial sifting process each of the options have been considered in high level terms against the scheme objectives and against a feasibility/deliverability assessment. Following this process seven options were taken forward to a secondary sift which assessed each option against the proposed secondary objectives and potential scheme costs. A summary of the process is included in the Strategic Case with further information provided in a supporting Options Appraisal report. The economic appraisal was limited to the Core and Low Cost options.
E12	Have appropriate sensitivity tests been undertaken?	Requirements Fully Met	A series of sensitivity tests have been undertaken to investigate the effect on the scheme BCR including travel demand variation and the inclusion of trips generated by dependent development potentially coming before the scheme and changes in DfT recommended values of time. The sensitivity tests have been limited to TUBA analysis only. All other assessment results were assumed to be consistent between the Core and the sensitivity test scenarios. The reported BCRs for these tests showed a range of 2.01 to 2.66.
	Has a completed AST been provided (with supporting worksheets where relevant)?	Requirements Fully Met	A full AST table is appended to the Business Case and summarised within the Economic Case. Impacts have been assessed on a 7 point scale with a supporting qualitative statement - impacts are monetised where information is available from the appraisal. The scheme results in the following impacts:  -Majority of the benefits generated by the scheme are associated with travel time savings for business and non-business road usersImprovement in Safety, Noise and Air Quality also provide a relatively modest contribution to the total monetised benefits of the schemeDisbenefits are reported from greenhouse gases emissions and increase in vehicle operating costsThere will be a small decrease in indirect tax revenue.
			The non-monetised impacts of the scheme have also been reported and the scheme is expected to:  - Largely beneficial for journey quality due to reduction in driver frustration, fear of accidents and journey uncertainty as well as the improvement in Non-Motorised User (NMU) facilities;  - Have a slight beneficial impact on physical activity resulting from the provision of new facilities and slightly longer journeys;  - Have a slight beneficial impact on severance due to the provision of new facilities maintaining connectivity between communities;  - Have a slight adverse effect on the local landscape, historic environment and water environment and a moderate adverse impact on biodiversity;  - Have neutral effect on townscape
	Are forecast housing, jobs and GVA impacts provided robust / realistic?	Requirements Fully Met	GVA is defined as Transport-induced changes in jobs, multiplied by GVA per job, adjusted for changes in productivity (agglomeration and labour), plus savings in direct transport costs. The OBC submission determined that two types of the potential GVA benefits would be relevant for the PWD namely:  -Unlocking development and Productivity uplifts: More than 5000 dwellings are expected to be built in the North West Preston, most of which are dependent on (or unlocked by) the PWD.  The unlocked dwellings form the basis for calculating the 'indirect jobs' created to support the new residents. The average GVA per service industry job in Lancashire was applied to calculate
			the GVA upliftProductivity uplift will result from the PWD impact on agglomeration and output change in imperfectly competitive markets. The percentage productivity uplift due to agglomeration has been derived using a productivity elasticity for reductions in journey time. The second type of productivity benefit is the output change in imperfectly competitive markets. This captures the profit that firms make on additional outputs generated as a result of reduced transport costs.
			Based on the analysis reported there is a forecast increase in GVA to the local economy of £144.1 million over the 60 year period which can be directly related to the impacts of the PWD. This comprises: Unlocked Development £104.5m Agglomeration (Preston) £23.0m Agglomeration (Warton) £5.8m Output change in imperfectly competitive markets £10.8
	Has dependent development been accounted for?	Requirements Fully Met	The PWD scheme is expected to unlock the North West Preston strategic housing location (more than 5,000 dwellings) and provide direct links into Cottam development areas and Cottam Parkway Rail Station. WebTAG categorises new development that is dependent on the provision of a transport scheme as Dependent Development. In the case of the PWD scheme, dependency refers to land use development that cannot be realised without the introduction of the PWD. Given that the dependent development is conditional to the provision of the scheme and to ensure a correct comparison between With and Without Scheme scenarios, WebTAG suggests that the dependent development should not be included into the Core demand matrices.
			Instead, a separate assessment has been made to estimate the benefits of the PWD that are attributed to unlocking housing development. The outcome of the dependency test showed that the North West Preston development, with the exception of Haydock Grange site, is dependent on the PWD.
			Assessment of the dependent development benefits of the PWD scheme reported the following monetised impact for the elements forming this test: -Planning gain arising from dependent new homes: £421.8m
			-Less non-transport external costs caused by dependent new homes : -£251.2m -Less transport external costs caused by dependent new homes (C) : -£118.8m

Continued overleaf.

E16	Have all (relevant) Environmental & Social Impacts been adequately assessed?	Fully Met	The environmental impacts considered and assessed for PWD include monetised impacts (Noise, Air Quality and Greenhouse gases) and non-monetised impacts (Landscape, Townscape, Historic Environment, Biodiversity and Water Environment). The social impacts are not normally monetised and have therefore been assessed and reported using quantitative and qualitative information. They include Physical Activity, Journey Quality, and Severance.  The monetised values of the environmental impacts over a 60 year assessment period include:  Nosie: £10.3m  Air Quality: £0.7m  Greenhouse gases: -£12.4m  A summary of the impact of the non-monetised impacts is shown above under £13.
			It is expected that prior to submission of FBC, the traffic model would be updated with the latest guidance and possibly introduction of VDM. Should this be the case, consideration should be given to re-undertaking of the assessment of elements of environmental impacts which include inputs from the existing traffic model.
E17	Have Distributional Impacts been assessed in a robust manner?		The assessment of Distributional Impacts (DIs) is to establish the impacts of transport interventions on different groups of people, including those potentially more vulnerable to the effects of transport. Consideration of the DIs of transport schemes in accordance with WebTAG Unit A4.2 requires eight DI including:  Noise, Air Quality, Accessibility, Security, Severance, User Benefits (journey times and vehicle operating costs), Affordability and Accidents.
			The DI assessment for this scheme showed the following overall conclusions:  -All income quintiles will receive a positive impact for the User Benefits and Air Quality, although some income groups will experience more significant benefits than the others.  -Income group 1 representing the most deprived areas will experience a positive impact on personal affordability whilst the other income groups will have a negative impact.  - All income quintiles except income quintile 1 will benefit from decrease in noise levels with the scheme in place.  - Children, older people, pedestrians and cyclists will be affected by the scheme. Children are expected to receive a slight beneficial effect from change in noise levels as well as from reduction in accidents and improvement in air quality. Older people, pedestrians and cyclists are expected to benefit from accident impact as there will be a reduction in numbers of casualties among representatives of these two groups when the scheme is in built.  It is expected that prior to submission of FBC, the traffic model would be updated with the latest guidance and possibly introduction of VDM. Should this be the case, consideration should be given to re-undertaking of the assessment of elements of DIs which include inputs from the existing traffic model.

# A.4. Financial Case

	EPENDENT REVIEW				ATKINS
	Project Title:		Preston Western Distributor		
	Permission Sought:		Conditional Approval Date of Review:		18/12/2017
			FINANCIAL CASE		
	Overall Score	2		1	<b>Requirements fully met</b> - No issues of r with the submission.
		estimate and 15 type of cost, but along with a Mo appears to conta identified for the been identified a	t the scheme cost, which has been subject to some independent validation. It includes base costs, risk adjustment at the most robust optimism bias in line with WebTAG guidance. A spend profile has been included which sets out year on year costs and breakdown by does not specify the parties on whom they fall. The key financial risks have been identified, an evaluation process has been undertaken note Carlo Risk Assessment and the 80% probability risk cost has been applied to the base costs for robustness. However, the risk register in risks for both the PWD and the EWLR and may therefore overestimate the overall risks for the PDW scheme. Funding has been the full scheme costs and evidence has been provided of third party funds, including Highways England RIS monies. No alternative funding has not the LGF monies are subject to having a good business case with high value for money. LCC will cover any increase in funding and this	2	<b>Requirements substantially met</b> - Mino issues exist with the submission.
			in the form of a letter provided by the Section 151 Officer. Limited information is available on the long-term financial sustainability of the rdability including any ongoing costs for operation, maintenance and major capital renewals.	3	<b>Requirements partially met</b> - Medium issues exist with the submission.
				4	Requirements not met - Critical issues of with the submission.
ef	Item	Status	Comments		
1	Is the expected whole life cost of the scheme robust, including the base cost and risk allowance in outturn prices drawn from industry forecasts?	Requirements Fully Met	In developing the scheme, the client engaged in Early Contractor Involvement (ECI) with Costain to provide additional confidence in the schereport was commissioned in January 2017, the report (Appendix K) recognised that there were differences in sectional totals, and raised sor design drawings provided and that there was some information missing, but on a general note the estimate appeared to be robust - the diff 1.17% of the schemes cost estimate at the time. Additional verification exercises are intended to be undertaken during further stages in the informed by ground investigation, estimates from statutory authorities, land and compensation costs and QRA. The construction cost is esti breakdown is provided in Appendix L. 80% probability risk has been included at £8,433m. Optimism bias has been applied at 15% in line witl £161,597m.	ne co eren proj mate	oncerns that costs did not seem to match ce in total cost was £1.5m which represe ect. The cost estimate is based on BoQ d to be £110,644,087.75 and a cost
2	Has a cost profile been provided showing year on year costs, and breakdown by cost type and parties on whom they fall?		Spend profiles have been provided for the £161.6m cost of the scheme in the case in the form of bar charts showing preparation, supervision, construction and lands cost, and of outline expenditure by year is provided in Appendix P. No information is provided on parties on whom they fall.		
<b>-3</b>	Have details of key financial risks been provided and is the risk cost allowance robust?	Requirements Substantially Met	tially which have been constructed. The Risk Register (Appendix M) identifies 279 risks, these have been assessed and where possible addressed introducing mitigation measures leaving 122		
F4	Are funding sources to cover the full scheme cost clearly set out?	Requirements Fully Met Appendix Q); City Deal - £89.9m. Total funding secured is £172.9m. LCC has agreed to underwrite the impact of any timing difference in relation to receipt of funding for schemes deliver within the City Deal framework. Confirmation is provided via letter from Section 151 officer, included in Appendix R that any scheme cost increase will be covered by LCC.			to receipt of funding for schemes deliver
5	Is there sufficient evidence to support third party / alternative funding contributions?	Requirements Substantially Met	A letter confirming the Highways England contribution is provided in Appendix Q. The City Deal funding was agreed in Autumn 2013. The Gr business case and high value for money. No further funding has been identified.	owth	Deal Funding is subject to having a good
6	Have the impacts of third party / alternative funding not coming forward been considered?	Requirements Fully Met	The release of City Deal Funds does not require receipt of confirmed funding from developers in advance of major road infrastructure proviany timing differences in relation to receipt of funding for schemes delivered within the City Deal framework. In addition, LCC confirms that and this has been underwritten by the Section 151 officer (Appendix R).		
					ue engineer the scheme during developr

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Requirements A letter from the Section 151 Officer is included within Appendix R. Fully Met

F8 Has evidence of

appropriate S151 Officer sign-off been provided?

# A.5. Commercial Case

IDEPENDENT REVIEW					<b>ATKINS</b>
Project Ti	tle:		Preston Western Distributor		
Permission Soug	ght:	Conditional Approval	Date of Review:		18/12/2017
		COMMERCI	AL CASE		
Overall Score	2			1	Requirements fully met - No issues of no with the submission.
	delivery mechanisr termination withou set out. The anticip Milestones are set to LCC Cabinet the	he anticipated procurement strategy and lists the benefits of using thin for major civil engineering works. It is unclear exactly how the contruit penalty if value for money is not obtained at all times. Prompt and footed payment option/mechanism is stated for Phase 3, but will need out, but there is some uncertainty around the COP Public Inquiry time day after the OBC is submitted to the LEP. A risk workshop has been it	act is set up, although the case refers to a 3 phase basis and early air payment mechanisms are referenced, but no details of this are to be confirmed prior to Full Business Case. Project Procurement escales and a question around how realistic it is to set out the CPO all and informed a risk register that is a live document with joint	2	Requirements substantially met - Mino issues exist with the submission.
Atkins Comments:	commencement, the	should lead to cost efficiencies. Contract management details are limit his will need updating ahead of Full Business Case. The procurement s hat the strategy is well established and will protect the authority from EAT evaluation criteria, does not specifically reference the contract an	trategy is supported by a letter from the Section 151 Officer, which unnecessary risk and challenge, while looking to secure value for	3	Requirements partially met - Medium issues exist with the submission.
				4	Requirements not met - Critical issues of with the submission.

Ref	Item	Status	Comments
	Has a robust procurement strategy been clearly set out?	Requirements Fully Met	LCC has chosen the ECI to procure works and this approach was signed off by LCC Cabinet Member for Highways and Transport in November 2015. An OJEU compliant exercise was undertaken to select the contractor to be involved in the scheme - details of the process are provided in report to the Cabinet Member included as Appendix S. The appointment is on a 3 phase basis and the contract is structured so that it can be terminated without penalty should the arrangement be deemed not to be delivering the benefits to ensure value for money is obtained at all times. The case outlines that this is referred to in the S151 Officer Letter in Appendix R - which sets out that LCC has a well established procurement strategy that aims to protect the authority from unnecessary risk and challenge while looking to secure value for money using the MEAT evaluation criteria. It does not reference any contract arrangements with the contractor.
	Has consideration of different procurement options been demonstrated, including justification for selection of the preferred option?		The case sets out the industry recognised benefits of using this approach as opposed to the "traditional method" in bullet point format and how it is recognised widely by many public and private sector bodies as the delivery mechanism for major civil engineering projects.
	Have the proposed payment mechanisms / pricing framework been identified?		Phase 1 and 2 will utilise the Professional Services contract and Phase 3 will be undertaken under the Engineering Construction Contract (ECC). The case states that prompt and fair payment mechanisms will be applied throughout the supply chain. For Phase 3 it sets out the 6 main payment options within the ECC and states that the current anticipation is that the NEC Option C procurement approach will be used for PWD construction contract - target cost contract with an activity schedule where the out-turn financial risks are shared between client and contractor in an agreed proportion.
	Have the procurement timescales been set out, and are they realistic?		The case sets out the procurement programme milestones to commencement of works. It also highlights that for some parts of the CPO Inquiry procedure there is no certainty in the timelines. The programme has been guided by experience on previous projects involving public inquiries. Programme dates are also presented in the Management Case which indicates slightly different dates - both programmes should be standardised.
	Have details of the proposed risk transfer / allocation been provided?	Requirements Fully Met	Risks and associated cost estimates are provided in the Risk Register (Appendix M). The risk register was initially drafted following a risk workshop and the case sets out that this is a live document that will be updated and adjustments to risks, costs and responsibilities amended as the detail design progresses. The register is under joint ownership under the ECI.
C6	Have details of contract management been provided, including contract timescales?		The contract management arrangements will be administered by an ECC Project Manager and Supervisor during the implementation stage. The case refers to roles for the project being set out within the Project Governance section of the Management Case. It is anticipated that the construction contract length will be 3-3.5 years. The variance is explained as being uncertainty of the season of commencement which will influence how and when ecological and environmental mitigation measures can be undertaken.
	Has evidence of relevant approval been provided from Head of Procurement?	Requirements Fully Met	A letter from the Section 151 Officer is included within Appendix R.

### A.6. Management Case

Strategy been provided, setting out how risks have

impact, appropriate

by whom)?

M7 Does the Risk Register

with no obvious

mitigation, and how the

risks will be managed (and

cover all foreseeable risks

omissions? Are suitable

mitigation measures

proposed? Is the Risk Register updated on a regular basis?

been identified, their likely

risk on the PWD.

political decisions, land acquisition issues, legislative delays etc.

INDE	EPENDENT REVIEW				ATKINS	
	Project Title: Permission Sought:		Conditional Approval	Preston Western Distributor  Date of Review:	18/12/2017	
	r crimission sought.		MANAGEME		10/12/2017	
	Overall Score	3			Requirements fully met - No issues of no with the submission.	
		scheme. There a timescale for ma not clearly set or has been supplic on the risk mana	t the governance structure and project delivery team and the key report re inconsistencies in the project programme within the management an aking the CPO. Planning permission has been granted, but the scheme is at in the business case. Details of the reporting, approvals and assuranced, and there is no information on how lessons learned have been applied gement strategy, although a quantified risk register is included that project strategy for the PWD is still currently being prepared and needs to be p	d commercial cases that need addressing, along with the realistic dependent on a CPO and SRO and details around the impacts are process are clearly set out. Limited evidence on scheme delivery to the delivery of this scheme. There is also limited information vides details of the risks, owners and mitigation measures. The	Requirements substantially met - Minor issues exist with the submission.	
		evaluation plan, supporting objec	onitoring and evaluation plan, but it is unclear how supporting objectives this sets out the metrics to be measured, but it is unclear how each of the ctives have been met. The plan also sets out that a value for money asse his process will be done are included.	ne metrics is directly related to measuring if the primary and	Requirements partially met - Medium issues exist with the submission.	
					Requirements not met - Critical issues exwith the submission.	
Ref	Item	Status	Comments		_	
	Has the proposed governance / organisational structure been provided? Does it provide a robust means of overseeing project delivery with appropriate skills / experience?		ntially Transport for Lancashire is responsible for the transport elements of the IDP, the City Deal Programme Board is responsible for operational delivery, the Project Board is responsible			
	Does the project programme demonstrate realistic delivery timescales? Does it provide an appropriate level of detail? Have critical path items and dependencies been clearly identified?		A high level delivery programme is provided in Appendix T and is owner project programme that could impact upon key milestones within the d month and year for each key milestone. Programme details are also prestandardised. No information is provided in the way of critical path item	levelopment and delivery of the scheme are communicated to the Prosented in the Commercial Case which indicates slightly different date	oject Board. The table in this case shows the	
	Have required statutory powers and consents been obtained? Are there any conditions to the powers, consents or funding and do they pose any additional risks? Is a plan in place to demonstrate how these conditions will be met?		The statutory powers and consents have not been obtained as of yet. T TfL requires promoters to provide an absolute minimum 10% contributi Approval. This has been agreed in the Section 151 Officer letter provide advance of major road infrastructure provision. LCC has agreed to unde framework. The LEP will only approve schemes demonstrating high valu assessments as true and accurate - and to avoid potential conflict of int requires Ministerial approval, however, the DfT have confirmed that no	ion towards total scheme construction cost and 100% of any increase of in Appendix R. The release of City Deal Funds does not require receive write the impact of any timing difference in relation to receipt of furule for money, with a BCR greater than 2. The Director for Financial Re	in cost once TfL has granted Provisional cipt of confirmed funding from developers in ading for schemes delivered within the City De esources will sign off all value for money	
	Have details of the reporting, assurance and approval process been provided (including gateways in scheme development / delivery)?	Requirements Fully Met	As per the TfL Assurance Framework, LCC will submit a quarterly monite has established a consultant panel with a minimum of two independent business case scrutiny. The LEP Board Director for Strategic Transport v process is set out - programme entry; conditional approval; full busines requirements for signing off funding approval.	t specialist consultants to undertake business case scrutiny, reporting will have an advisory role in supporting scheme assessment and appro	to the officer with overall responsibility for oval arrangements. The TfL three stage approv	
	Has evidence of scheme delivery been provided, to demonstrate that the delivery body has the capability and means to successfully implement the scheme?		Limited information is provided in regard to evidence of scheme deliver highways services to ensure widespread learning. These details should			
	I .					

Continued overleaf.

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Partially Met requires risk registers to be produced and maintained for individual schemes once approved. The Steering Group has overall responsibility for governance and risk associated with the

Requirements The PWD project risk register (Appendix M) is owned by the Project Manager and updated regularly. The risk register at this stage in the programme concentrates on risks to scheme cost

Substantially and programme, however, the register also appears to include risks associated with the EWLR and as a consequence may overestimate the quantified risks. The use of ECI providing a direct

market link to costs and efficient construction methodology ensure the risk register is up to date and as accurate as possible in quantifying the risks. Each risk has been allocated a 'risk

owner' depending on the risk type and its proximity (i.e. when it is likely to be realised/removed). The last update to the risk register was July 2017. It includes risks such as planning delay,

delivery of the PWD scheme. It is responsible for managing and overseeing the risk management strategy and where appropriate agreeing and undertaking actions to mitigate key risks. No

any risks which do not require escalation. The governance structure clearly defines and sets out the arrangements for decision making and approvals including the responsibilities regarding

detailed information of the risk management strategy is included, only that the Programme Manager is responsible for maintaining and updating the Risk Register and planning for mitigating

M8	Is an appropriate time- based plan in place for proactive communications and media enquiries?		TfL will publish the PWD major scheme business case on its website, as will LCC alongside publicising it through regular communication channels. The OBC and supporting documentation will be made available for inspection and independent assurance by TfL's independent Assurance Team. The communications strategy for the project is framed within the wider communications strategy for the City Deal. The City Deal Communications and Marketing Strategy is not included but the proposed overarching approach and activities have been identified by communications staff from LCC, PCC, SRBC and the HCA. They are intended to establish foundations for successful communication and have directly influenced the schedule of work outlined in the IDP (including PWD). The activities are reviewed annually throughout the City Deal lifetime. A specific PWD Communications Strategy is currently being developed and will be made available to in advance of the funding decision. The PWD has gone through a significant consultation process over the past 3 years to select the preferred route and support the planning application.
M9	Is there a clear intervention logic for how the outcomes will be achieved? (e.g. logic map)	Requirements Substantially Met	A logic map is included as part of the M&E Plan. It is not entirely clear how supporting objectives 4 and 8 fit into the logic map?
M10	Has a Monitoring & Evaluation Plan been provided that identifies proposed data / performance indicators to monitor against the scheme objectives?		An outline M&E Plan has been prepared and is included in Appendix U. It will be updated as part of the Full Business Case submission. The full M&E Plan will provide further detail on how the scheme inputs, outputs and outcomes are to be monitored. The outputs and outcomes will be monitored using specific metrics. The Growth Deal Monitoring and Evaluation Framework guidance sets out the requirement for monitoring and evaluation of metrics. These consist of Input Core Metrics: expenditure, funding breakdown, in-kind resources provided; Output Core Metrics: housing unit starts and completions; Project Specific Outputs and Outcomes: total length of newly built roads, total length of new cycleways and type of infrastructure delivered - these will all be measured until the scheme is completed. Journey time measurement and day-to-day travel will be monitored on an annual basis, along with accident and casualty rates. It is not clear how these metrics are related to all of the primary and supporting objectives.
M11	Are there clear proposals to undertake evaluation of the overall effectiveness of the scheme?		The M&E Plan sets out that an assessment of the value for money of the scheme will be required upon completion - this is undertaken by considering the evidence of the outputs and outcomes monitored. No further details are included.

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