

Vale of White Horse District Council
**Infrastructure Delivery Plan
(LPP2 Update)**
IDP - Site Summaries

Issue | 3 October 2017

This report takes into account the particular instructions and requirements of our client.

It is not intended for and should not be relied upon by any third party and no responsibility is undertaken to any third party.

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1 Introduction

1.1 Overview

Ove Arup and Partners ('Arup') has been commissioned by Vale of White Horse District Council ('the Council') to prepare an Infrastructure Delivery Plan for the sites identified in the emerging Local Plan Part 2 – Detailed Policies and Additional Sites.

1.2 Structure

This Infrastructure Delivery Plan (IDP) focuses specifically on the infrastructure requirements for the sites that have been identified as part of the Local Plan Part 2 (LPP2). Section 2 provides a brief summary of the local plan-making and spatial policy context for the Vale of White Horse (VoWH). Section 4 documents the assumptions that have been used to frame the assessments of infrastructure requirements. Section 4 sets out infrastructure issues at the strategic scale, which affect the district as a whole. Section 5 to 11 provides a site-by-site list of the infrastructure requirements identified. Section 12 discusses the funding issues that will need to be considered in delivering both the development sites and supporting infrastructure.

2 Background and Context

The following section summarises some of the extant policy documents and evidence base documents that frame infrastructure planning and delivery in the Vale of White Horse area.

2.1 Vale of White Horse Local Plan Part 1

The Vale of White Horse Local Plan Part 1 (LPP1) was adopted in December 2016, and sets out the overarching growth strategy for the district.

It establishes a housing growth requirement of 20,560 homes to be delivered in the district between 2011 and 2031. It also makes provision for approximately 218 hectares of employment land, which is anticipated to deliver approximately 23,000 jobs between 2011 and 2031.

The LPP1 defines a spatial strategy for the delivery of growth, and establishes three sub-areas which will be the focus for development. These are:

- **Abingdon-on-Thames and Oxford Fringe Sub-Area** – which covers the northern and north-eastern part of the Vale.
- **South East Vale Sub-Area** – which includes much of the Science Vale area.
- **Western Vale** – which is a more rural area stretching from the North Wessex Downs Area of Outstanding Natural Beauty (AONB) to the River Thames.

2.2 Vale of White Horse Local Plan Part 1 – Evidence Base

2.2.1 Infrastructure Delivery Plan (December 2016)

Evidence to inform and shape the LPP1 included an IDP, which was finalised in December 2016. The IDP to accompany the LPP1 defines the strategic infrastructure requirements to deliver planned growth across the district. It highlights those infrastructural items that are critical to deliver the LPP1, and shows that there is a gap in infrastructure funding and provision. This demonstration of infrastructure requirements, and the gap in funding was a fundamental piece of evidence to justify the Council's decision to put in place a Community Infrastructure Levy (CIL).

2.2.2 Community Infrastructure Levy (March 2017)

The Council prepared a draft Charging Schedule, which was subject to Examination in April 2017. The Inspector's Report on the Council's draft Charging Schedule was issued in May 2017, and confirms that the Charging Schedule provides an appropriate basis for the collection of the levy in the area.

In summary, the Charging Schedule set out the following levy rates. For 'market' residential development, there are to be three charging zones:

- Zone 1 - £120 per square metre;
- Zone 2 - £85 per square metre; and
- Zone 3 - £0 per square metre.

Zone 3 effectively zero-rates a series of strategic sites identified in LPP1. These are: Crab Hill, Monks Farm, Grove Airfield, East of Coxwell Road (Faringdon), Land South of Park Road (Faringdon), South of Faringdon, North of Shrivenham and Didcot Power Station. Zone 2 includes other defined land in Wantage, Grove and Faringdon. Zone 1 represents the remaining parts of the district.

The Charging Schedule was adopted by the Council in September 2017 and will take effect from 1 November 2017. It is important that the levy charge is borne in mind in any consideration of infrastructure requirements and delivery.

2.2.3 Developer Contributions SPD (June 2017)

The VoWH Developer Contributions – Delivering Infrastructure to Support Development SPD was published in June 2017. Referencing the strategy and growth plans set out in the LPP1, and with direct reference to the Council’s decision to implement a CIL, it sets out a more detailed strategy for how the Council will ensure new development contributes to infrastructure provision.

The SPD sets out the inter-relationship between CIL, S106 planning obligations, S278 Agreements, planning conditions.

It also documents the intended approach for securing the delivery of the following infrastructure items: affordable housing; education; transport; recreation and leisure (incorporating: outdoor sports and recreation, open space, play areas, allotments, and social and community facilities); essential services (incorporating: health care, fire and rescue, community safety and policing, and cemeteries); place-making; employment, skills and training; environmental impacts (incorporating: green infrastructure and biodiversity, and waste & recycling, air quality, flood protection and water management, and waste water); utilities; and street naming.

2.3 Vale of White Horse Local Plan Part 2

The Council is preparing the Vale of White Horse Local Plan Part 2 (LPP2). Between March and May 2017 it carried out formal consultation of the LPP2 – Preferred Options.

The LPP2 complements the LPP1 by setting out:

- policies and locations for new housing to meet the Vale’s proportion of Oxford’s housing need, which cannot be met within the City boundaries, as agreed by the Oxford Growth Board
- policies for the part of Didcot Garden Town that lies within the Vale of White Horse District

- detailed development management policies to complement the strategic policies set out in the Part 1 plan and replace the remaining saved policies of the Local Plan 2011, where appropriate, and
- additional site allocations for housing.

The Council is proposing to meet all of its proportion of Oxford's unmet need in the Abingdon-on-Thames and Oxford Fringe Sub Area, as detailed in the Publication Version of the LPP2. The Council consider this approach will achieve patterns of development that are well related to Oxford if sites are solely contained within the Abingdon-on-Thames and Oxford Fringe Sub Area. This area is closest, and has frequent and reliable public transport linkages, to Oxford.

This approach is also consistent with the key focus of the Oxford Spatial Options Assessment and the scope of the spatial options considered within the assessment. Therefore the total of the unmet need of 2,200 dwellings has been added to the Abingdon-on-Thames and Oxford Fringe Sub Area.

3 Study Assumptions

3.1 Scale of Growth

This reports complements the IDP (December 2016) produced to support the VoWH LPP1. The previous IDP sets out the strategic context for infrastructure issues across the VoWH area. This report does not reproduce or duplicate that original work, and instead focuses on providing the details on infrastructure requirements for the sites being put forward in the VoWH LPP2.

Work carried out by the Council since the Preferred Options consultation has identified seven sites to be allocated as part of LPP2. For completeness, the seven sites proposed, and which feature in this IDP, are set out in Table 3.1: List of seven sites identified in the LPP2 – Preferred Options below.

Table 3.1: List of seven sites identified in the LPP2 – Preferred Options

Site	Number of Planning Homes
Harwell Campus	1,000
North West Grove	400*
Dalton Barracks	1,200*
East Kingston Bagpuize	600
South East Marcham	90
North East of East Hanney	80
East of East Hanney	50
TOTAL	

* N.B. Denotes that sites would also be expected to deliver beyond 2031.

3.2 Use of Evidence

This IDP utilises secondary source evidence and material to identify the infrastructure requirements and costs for each of the seven sites. The information and evidence is based on:

- The VoWH Council’s own internal work and evidence base documents prepared for LPP1 and the LPP2 Preferred Options consultation stage;
- Stakeholder consultation with statutory providers, and their submissions to the LPP2 Preferred Options consultation stage; and
- Stakeholder consultation with landowners and developers of each of the seven sites, and their submissions to the LPP2 Preferred Options consultation stage.

The documents used to inform the IDP are listed in Appendix A.

3.3 Indicative Costs

The costs for the infrastructure items set out in the site summaries have primarily been drawn from the Council's existing evidence, namely: IDP (December 2016), LPP1 (December 2016), LPP2 Evidence Base to support the Preferred Option consultation, and information provided by VoWH officers.

Where the Council's evidence base does not provide infrastructure costs, appropriate secondary source information has been used to calculate values. For example, sport and leisure infrastructure costs have been produced using Sport England's facility costs (Q2 2017).

The IDP is just one part of the Council's evidence base, and it is important to note that the costs identified are indicative, and may change over time. The final costs for any infrastructure items will be subject to further inputs from statutory providers (where relevant), and will be subject to refinement as and when detailed discussions take place as part of the development management process of determining future planning applications for each site.

3.4 Status of IDP

Infrastructure delivery plans are intended to be 'live' documents that can be updated and reviewed at regular intervals. Where new or different information is received by the Council, or indeed the Council's own evidence base changes, it will be appropriate to review the IDP and amend the identified infrastructure requirements where necessary.

4 District-wide Infrastructure Requirements

4.1 Overview

Whilst the focus for this IDP is on the site-specific requirements generated by each of the seven sites, it is recognised that infrastructure will be provided in the district that is not directly tied to any one, single development, but which will still be of benefit to the sites in question, and help facilitate their delivery. This strategic infrastructure has been characterised as ‘district-wide’ provision.

At a general level, it will also be important to consider the additional impact generated by the LPP2 sites, and how cumulatively alongside the LPP1 sites, they will impact on infrastructure across the VoWH area. To this extent, and where appropriate, reference should also be made to the IDP (December 2016).

4.2 Transport

In order to achieve a sustainable transport network in the VoWH, the Council is working alongside OCC, South Oxfordshire, and other partners to understand strategic transport infrastructure requirements that will benefit the LPP2 sites and the district as a whole.

This includes having regard to Oxfordshire’s Local Transport Plan: Connecting Oxfordshire (LTP4), which was updated in 2016, and revises OCC’s policy and strategy for developing the transport system in Oxfordshire through to 2031.

It should be noted that OCC is explicit that it does not have sufficient funding to deliver the identified improvements. Delivery of the schemes outlined in LTP4 is therefore dependent on securing developer contributions from sites in the surrounding areas and / or any future Government funding secured through competitive bids.

The Council in considering the impact of the LPP2 sites is also having regard to the information stemming from the draft Oxfordshire Infrastructure Strategy (OxIS) prepared by Oxfordshire Growth Board.

4.3 Education

OCC’s Pupil Place Plan (2016 – 2020) analyses secondary school capacity across the county. Capacity at secondary schools can be affected by a range of sites across a catchment area, and across the district as a whole.

Those secondary schools which may be affected by the seven sites identified in the LPP2 are:

- Fitzharrys School (Abingdon), John Mason School (Abingdon), and Larkmead School (Abingdon) – which may be affected by development at South East of Marcham and Dalton Barracks. It should be noted however, that the Europa School UK is scheduled to open in 2017 boosting secondary school capacity

in the 'Abingdon planning area' defined by OCC. No direct requirement for a new secondary school has been identified by OCC.

- King Alfred's (Wantage) – which may be affected by developments at North West of Grove, North East of East Hanney, and East of East Hanney. The Pupil Place Plan notes that the scale of growth planned exceeds the expansion potential of King Alfred's Academy, and a new school is therefore planned on Grove Airfield. Until this school opens, King Alfred's is increasing its intake to meet needs.
- OCC has also suggested that a new secondary school may be required on the Dalton Barracks site to account for growth and demand, particularly taking account of growth beyond the Local Plan period. The secondary school at Dalton Barracks would likely provide up to 1,500 places to provide flexibility for planning across the wider area. In terms of delivery this would require provision of a 10.55 ha school site.

5 Harwell Campus – 1,000 Dwellings

5.1 Schedule of Infrastructure Requirements

Table 5.1: Infrastructure Requirements for Harwell Campus

Ref	Infrastructure Type	Scheme	Essential or Desirable	Delivery Partners	Delivery Mechanism	Indicative Cost	Notes
HC-T1	Transport	Reconfiguration and new junctions to the A4185 (where required).	Essential	Developer and OCC	S106 / S278	£1,000,000	Costs derived from IDP (2016), LPP1, and LPP2 Preferred Options
HC-T2	Transport	Investigate potential for new access from A4185.	Essential	Developer and OCC	S106 / S278		
HC-T3	Transport	Contribute to enhancements of the existing bus service.	Essential	Developer and OCC	S106 / S278	£714,000	Costs derived from IDP (2016), LPP1, and LPP2 Preferred Options
HC-T4	Transport	Enhancements to the current and future walking and cycling network to ensure integration in to Harwell Campus site.	Essential	Developer and OCC	S106 / S278	£2,737,000	Costs derived from IDP (2016), LPP1, and LPP2 Preferred Options
HC-T5	Transport	Improvements to PRoW including NCN Route 544 (Ickneild Way).	Essential	Developer and OCC	S106 / S278		
HC-E1	Education	Provision of 2.2ha of land for school site.	Essential	Developer	S106	£1,332,000	Costs derived from IDP (2016), LPP1, and LPP2 Preferred Options
HC-E2	Education	Provision of a 1.5 form-entry primary school	Essential	Developer / OCC	S106 / CIL	£7,109,000	Costs derived from IDP (2016), LPP1, and LPP2 Preferred Options
HC-E3	Education	Contribute towards increasing secondary and SEN school capacity in Didcot and Wantage.	Essential	Developer / OCC	CIL	TBC	Further work is needed to determine the specific provision required and cost. This will need to be done through more detailed discussion with the Education Authority (OCC).
HC-E4	Education	Contribute towards improving the existing	Essential	Developer / OCC	CIL	TBC	Further work is needed to determine the specific provision required and cost. This will need to be

Ref	Infrastructure Type	Scheme	Essential or Desirable	Delivery Partners	Delivery Mechanism	Indicative Cost	Notes
		services and facilities on the wider campus.					done through more detailed discussion with the Education Authority (OCC).
HC-H1	Health and social care	Healthcare contributions	Essential	Developer and Ox CCG	If necessary, on-site: S106 Off-site: CIL	TBC	Further discussions with Oxfordshire CCG to confirm provision and costs.
HC-EM1	Emergency Services	Emergency Services contributions	Desirable	Developer and Emergency providers	CIL	TBC	Further discussions with each of the emergency services to confirm provision and costs.
HC-CS1	Community and Sports Facilities: Outdoor Sport and Recreation	Outdoor Bowling Green contributions: 0.11 Greens	Desirable	Developer and VoWH	On-site S106 Off-site CIL	£15,400	Cost has been determined using Sport England's Facility Costs (June 2017). Further work is needed to determine the specific provision required on-site and where on site provision is not deemed appropriate, the level of any contributions which may be sought. This will be done through further iterations and work on the IDP as a live document and will ultimately be determined through the development management process when determining a future planning application.
HC-CS2		Outdoor Tennis: 0.93 club courts	Desirable			£93,000	Cost has been determined using Sport England's Facility Costs (June 2017). Further work is needed to determine the specific provision required on-site and where on site provision is not deemed appropriate, the level of any contributions which may be sought. This will be done through further iterations and work on the IDP as a live document and will ultimately be determined through the development management process when determining a future planning application.
HC-CS3		AGPs: 0.07 AGPs	Desirable			£66,850	Cost has been determined using Sport England's Facility Costs (June 2017) for Senior Football. Further work is needed to determine the specific provision required on-site. Further work is needed to determine the specific provision required on-site and where on site provision is not deemed appropriate, the level of any contributions which

Ref	Infrastructure Type	Scheme	Essential or Desirable	Delivery Partners	Delivery Mechanism	Indicative Cost	Notes
							may be sought. This will be done through further iterations and work on the IDP as a live document and will ultimately be determined through the development management process when determining a future planning application.
HC-CS4		Playing Pitch Provision: 2.77 ha	Desirable			£313,933	Cost has been determined using Sport England's Facility Costs (June 2017) for Senior Football. No costs for changing rooms have been included. VoWH Leisure and Sports Facility Study (2014) sets out that a senior football pitch is 0.75ha.
HC-CS5	Community and Sports Facilities: Community Facilities	Community facilities contributions: 287 sq.m	Desirable	Developer and VoWH	On-site S106 Off-site CIL	£434,518	Cost has been determined using LPP1 / IDP values. Further work is needed to determine the specific provision required on-site and where on site provision is not deemed appropriate, the level of any contributions which may be sought. This will be done through further iterations and work on the IDP as a live document and will ultimately be determined through the development management process when determining a future planning application.
HC-CS6	Community and Sport Facilities: Indoor Sports	Sports Hall contributions: 0.7 courts	Desirable	Developer and VoWH	On-site S106 Off-site CIL	£493,500	Cost has been determined using Sport England's Facility Costs (June 2017). Further work is needed to determine the specific provision required on-site and where on site provision is not deemed appropriate, the level of any contributions which may be sought. This will be done through further iterations and work on the IDP as a live document and will ultimately be determined through the development management process when determining a future planning application.
HC-CS7		Swimming Pools contributions: 27.15 sqm water space	Desirable			£91,293	Cost has been determined using Sport England's Facility Costs (June 2017). Further work is needed to determine the specific provision required on-site and where on site provision is not deemed appropriate, the level of any contributions which

Ref	Infrastructure Type	Scheme	Essential or Desirable	Delivery Partners	Delivery Mechanism	Indicative Cost	Notes
							may be sought. This will be done through further iterations and work on the IDP as a live document and will ultimately be determined through the development management process when determining a future planning application.
HC-CS8		Health and Fitness contributions: 13.50 stations	Desirable			£367,200	Cost has been determined using Sport England's Facility Costs (June 2017). Further work is needed to determine the specific provision required on-site and where on site provision is not deemed appropriate, the level of any contributions which may be sought. This will be done through further iterations and work on the IDP as a live document and will ultimately be determined through the development management process when determining a future planning application.
HC-CS9		Indoor Bowling Green contributions: 0.19 rinks	Desirable			£67,291	Cost has been determined using Sport England's Facility Costs (June 2017). Further work is needed to determine the specific provision required on-site and where on site provision is not deemed appropriate, the level of any contributions which may be sought. This will be done through further iterations and work on the IDP as a live document and will ultimately be determined through the development management process when determining a future planning application.
HC-CS10		Squash: 0.24 courts	Desirable			TBC	Further work is needed to determine the specific provision required on-site and where on site provision is not deemed appropriate, the level of any contributions which may be sought. This will be done through further iterations and work on the IDP as a live document and will ultimately be determined through the development management process when determining a future planning application.

Ref	Infrastructure Type	Scheme	Essential or Desirable	Delivery Partners	Delivery Mechanism	Indicative Cost	Notes
HC-GI1	Green Infrastructure and Open Space: Open Space, Allotments and Children's Play	Designated Equipped Playing Space: 0.60 ha	Desirable	Developer and VoWH	On-site S106 Off-site CIL	TBC	Further work is needed to determine the specific provision required on-site and where on site provision is not deemed appropriate, the level of any contributions which may be sought. This will be done through further iterations and work on the IDP as a live document and will ultimately be determined through the development management process when determining a future planning application.
HC-GI2		Youth/MUGA: 0.72 ha	Desirable			£1,335,038	Further work is needed to determine the specific provision required on-site and where on site provision is not deemed appropriate, the level of any contributions which may be sought. This will be done through further iterations and work on the IDP as a live document and will ultimately be determined through the development management process when determining a future planning application.
HC-GI3		15% of residential area as Public Open Space: 5.52 ha	Desirable			£276,276	Cost has been determined using Spon's Architects' and Builders' Price Book (2017). Further work is needed to determine the specific provision required on-site and where on site provision is not deemed appropriate, the level of any contributions which may be sought. This will be done through further iterations and work on the IDP as a live document and will ultimately be determined through the development management process when determining a future planning application.
HC-GI4		Allotment provision: 0.956 ha	Desirable			£21,935	Cost has been determined using Spon's Architects' and Builders' Price Book (2017). Further work is needed to determine the specific provision required on-site and where on site provision is not deemed appropriate, the level of any contributions which may be sought. This will be done through further iterations and work on the IDP as a live document

Ref	Infrastructure Type	Scheme	Essential or Desirable	Delivery Partners	Delivery Mechanism	Indicative Cost	Notes
							and will ultimately be determined through the development management process when determining a future planning application.
HC-U1	Utilities	Localised upgrades to electricity and gas provision. Off-site reinforcement works may be required to the existing high voltage distribution network.	Essential	Developer and Scottish & Southern Electricity Networks	Developer agreement with statutory undertaker	TBC	Further work is needed to determine the specific provision required. This will be done through more detailed discussion with the statutory provider during the development management process when determining a future planning application.
HC-U2	Utilities	Strategic water supply upgrades.	Essential	Developer and Thames Water	Developer agreement with statutory undertaker	£500,000	Further work is needed to determine the specific provision required. This will be done through more detailed discussion with the statutory provider during the development management process when determining a future planning application
HC-U3	Utilities	Localised upgrade to sewer, wastewater and drainage networks.	Essential	Developer and Thames Water	Developer agreement with statutory undertaker	TBC	Further work is needed to determine the specific provision required. This will be done through more detailed discussion with the statutory provider during the development management process when determining a future planning application
HC-FR1	Flood Risk	Enhancement, improvement and upgrades to culverts and streams on-site.	Essential	Developer and OCC	S106	TBC	Further work is needed to determine the specific provision required. This will be done through more detailed discussion with the statutory provider during the development management process when determining a future planning application
HC-FR2	Flood Risk	Sustainable Drainage System (SuDS).	Essential	Developer and OCC	S106	TBC	Further work is needed to determine the specific provision required. This will be done through more detailed discussion with the statutory provider during the development management process when determining a future planning application

6 North West of Grove – 400 Dwellings

6.1 Schedule of Infrastructure Requirements

Table 6.1: Infrastructure Requirements for North West of Grove

Ref	Infrastructure Type	Scheme	Essential or Desirable	Delivery Partners	Delivery Mechanism	Indicative Cost	Notes
NWG-T1	Transport	Investigate access arrangements on to A338.	Essential	Developer and OCC	S106 / S278	£400,000	Costs derived from IDP (2016), LPP1, and LPP2 Preferred Options
NWG-T2	Transport	Signalising Brook Lane Railway Bridge and contribution to completion of Grove Northern Link Road.	Essential	Developer and OCC			
NWG-T3	Transport	Improve bus services and associated infrastructure across Grove and the wider area, including opportunities to link services to adjacent allocations.	Essential	Developer and OCC	S106 / S278	£285,600	Costs derived from IDP (2016), LPP1, and LPP2 Preferred Options
NWG-T4	Transport	Improve network of pedestrian, walking, and cycling routes	Essential	Developer and OCC	S106 / S278	£1,094,800	Costs derived from IDP (2016), LPP1, and LPP2 Preferred Options
NWG-T5	Transport	Re-opening of Grove Station	Desirable	Network Rail, DfT, OCC, VOWH and developer	Network Rail, DfT, OCC, VOWH and developer	TBC	Costs derived from IDP (2016), LPP1, and LPP2 Preferred Options
NWG-E1	Education	Contribution to general enhancement of capacity across early years,	Essential	OCC and developer	CIL	TBC	Further work is needed to determine the specific provision required and cost. This will need to be done through more detailed

Ref	Infrastructure Type	Scheme	Essential or Desirable	Delivery Partners	Delivery Mechanism	Indicative Cost	Notes
		primary, secondary and SEN education. Consider new primary school with nursery provision depending on scale of development.					discussion with the Education Authority (OCC).
NWG -H1	Healthcare and social care	Healthcare contributions	Essential	Developer and Ox CCG	If necessary, on-site: S106 Off-site: CIL	TBC	Further discussions with Oxfordshire CCG to confirm provision and costs.
NWG -EM1	Emergency Services	Emergency Services contributions	Desirable	Developer and Emergency providers	CIL	TBC	Further discussions with each of the emergency services to confirm provision and costs.
NWG -CS1	Community and Sports Facilities: Outdoor Sport and Recreation	Outdoor Bowling Green contributions: 0.04 Greens	Desirable	Developer and VoWH	On-site S106 Off-site CIL	£5,600	Cost has been determined using Sport England's Facility Costs (June 2017). Further work is needed to determine the specific provision required on-site and where on site provision is not deemed appropriate, the level of any contributions which may be sought. This will be done through further iterations and work on the IDP as a live document and will ultimately be determined through the development management process when determining a future planning application.
NWG -CS2		Outdoor Tennis: 0.37 club courts	Desirable			£37,000	Cost has been determined using Sport England's Facility Costs (June 2017). Further work is needed to determine the specific provision required on-site and where on site provision is not deemed appropriate, the level of any contributions which may be sought. This will be done through further iterations and work on the IDP as a live document and will ultimately be determined through the

Ref	Infrastructure Type	Scheme	Essential or Desirable	Delivery Partners	Delivery Mechanism	Indicative Cost	Notes
							development management process when determining a future planning application.
NWG -CS3		AGPs: 0.03 AGPs	Desirable			£28,650	Cost has been determined using Sport England’s Facility Costs (June 2017) for Senior Football. Further work is needed to determine the specific provision required on-site. Further work is needed to determine the specific provision required on-site and where on site provision is not deemed appropriate, the level of any contributions which may be sought. This will be done through further iterations and work on the IDP as a live document and will ultimately be determined through the development management process when determining a future planning application.
NWG -CS4		Playing Pitch Provision: 1.11 ha	Desirable			£125,800	Cost has been determined using Sport England’s Facility Costs (June 2017) for Senior Football. No costs for changing rooms have been included. VoWH Leisure and Sports Facility Study (2014) sets out that a senior football pitch is 0.75ha.
NWG -CS5	Community and Sports Facilities: Community Facilities	Community Facilities Contributions: 115 sq.m	Desirable	Developer and VoWH	On-site S106 Off-site CIL	£174,110	Cost has been determined using LPP1 / IDP values. Further work is needed to determine the specific provision required on-site and where on site provision is not deemed appropriate, the level of any contributions which may be sought. This will be done through further iterations and work on the IDP as a live document and will ultimately be determined through the development management process when determining a future planning application.

Ref	Infrastructure Type	Scheme	Essential or Desirable	Delivery Partners	Delivery Mechanism	Indicative Cost	Notes
NWG -CS6	Community and Sport Facilities: Indoor Sports	Sports Hall Contributions: 0.28 courts	Desirable	Developer and VoWH	On-site S106 Off-site CIL	£197,400	Cost has been determined using Sport England's Facility Costs (June 2017). Further work is needed to determine the specific provision required on-site and where on site provision is not deemed appropriate, the level of any contributions which may be sought. This will be done through further iterations and work on the IDP as a live document and will ultimately be determined through the development management process when determining a future planning application.
NWG -CS7		Swimming Pools contributions: 10.86 sqm water space	Desirable			£36,517	Cost has been determined using Sport England's Facility Costs (June 2017). Further work is needed to determine the specific provision required on-site and where on site provision is not deemed appropriate, the level of any contributions which may be sought. This will be done through further iterations and work on the IDP as a live document and will ultimately be determined through the development management process when determining a future planning application.
NWG -CS8		Health and Fitness contributions: 5.39 stations	Desirable			£146,610	Cost has been determined using Sport England's Facility Costs (June 2017). Further work is needed to determine the specific provision required on-site and where on site provision is not deemed appropriate, the level of any contributions which may be sought. This will be done through further iterations and work on the IDP as a live document and will ultimately be determined through the development management process when determining a future planning application.

Ref	Infrastructure Type	Scheme	Essential or Desirable	Delivery Partners	Delivery Mechanism	Indicative Cost	Notes
NWG -CS9		Bowling Green contributions: 0.076 rinks	Desirable			£26,920	Cost has been determined using Sport England's Facility Costs (June 2017). Further work is needed to determine the specific provision required on-site and where on site provision is not deemed appropriate, the level of any contributions which may be sought. This will be done through further iterations and work on the IDP as a live document and will ultimately be determined through the development management process when determining a future planning application.
NWG -CS10		Squash: 0.09 courts	Desirable			TBC	Further work is needed to determine the specific provision required on-site and where on site provision is not deemed appropriate, the level of any contributions which may be sought. This will be done through further iterations and work on the IDP as a live document and will ultimately be determined through the development management process when determining a future planning application.
NWG -GI1	Green Infrastructure and Open Space: Open Space, Allotments and Children's Play	Designated Equipped Playing Space: 0.24 ha	Desirable	Developer and VoWH	On-site S106 Off-site CIL	TBC	Further work is needed to determine the specific provision required on-site and where on site provision is not deemed appropriate, the level of any contributions which may be sought. This will be done through further iterations and work on the IDP as a live document and will ultimately be determined through the development management process when determining a future planning application.
NWG -GI2		Youth/MUGA: 0.29 ha	Desirable			£531,790	Further work is needed to determine the specific provision required on-site and where on site provision is not deemed appropriate, the level of any contributions which may be

Ref	Infrastructure Type	Scheme	Essential or Desirable	Delivery Partners	Delivery Mechanism	Indicative Cost	Notes
							sought. This will be done through further iterations and work on the IDP as a live document and will ultimately be determined through the development management process when determining a future planning application.
NWG –GI3		15% of residential area as Public Open Space: 4.25 ha	Desirable			£212,712	Cost has been determined using Spon's Architects' and Builders' Price Book (2017). Further work is needed to determine the specific provision required on-site and where on site provision is not deemed appropriate, the level of any contributions which may be sought. This will be done through further iterations and work on the IDP as a live document and will ultimately be determined through the development management process when determining a future planning application.
NWG –GI4		Allotment Provision: 0.38 ha	Desirable			£8,682	Cost has been determined using Spon's Architects' and Builders' Price Book (2017). Further work is needed to determine the specific provision required on-site and where on site provision is not deemed appropriate, the level of any contributions which may be sought. This will be done through further iterations and work on the IDP as a live document and will ultimately be determined through the development management process when determining a future planning application.
NWG_GI5	Cemetery	Expansion and enhancement of cemetery.	Desirable	Developer / VoWH / Parish Council	S106 / CIL	TBC	Further discussion is required between VoWH, relevant Parish Council and developer as to cost and delivery mechanisms for this infrastructure.

Ref	Infrastructure Type	Scheme	Essential or Desirable	Delivery Partners	Delivery Mechanism	Indicative Cost	Notes
NWG -U1	Utilities	Localised upgrades to electricity and gas provision	Essential	Developer and Scottish & Southern Electricity Networks	Developer agreement with statutory undertaker	TBC	Further work is needed to determine the specific provision required. This will be done through more detailed discussion with the statutory provider during the development management process when determining a future planning application
NWG -U2	Utilities	Strategic Water Supply Upgrades	Essential	Developer and Thames Water	Developer agreement with statutory undertaker	TBC	Further work is needed to determine the specific provision required. This will be done through more detailed discussion with the statutory provider during the development management process when determining a future planning application
NWG -U3	Utilities	Localised upgrade to sewer, wastewater and drainage networks.	Essential	Developer and Thames Water	Developer agreement with statutory undertaker	£150,000	Further work is needed to determine the specific provision required. This will be done through more detailed discussion with the statutory provider during the development management process when determining a future planning application
NWG -FR1	Flood Risk	Enhancement, improvement and upgrades to culverts and streams on-site. Improvements to mitigate impacts on groundwater quality.	Essential	Developer and OCC	S106	TBC	Further work is needed to determine the specific provision required. This will be done through more detailed discussion with the statutory provider during the development management process when determining a future planning application
NWG -FR2	Flood Risk	Sustainable Drainage System (SuDS)	Essential	Developer and OCC	S106	TBC	Further work is needed to determine the specific provision required. This will be done through more detailed discussion with the statutory provider during the development management process when determining a future planning application

7 Dalton Barracks (Shippon) – 1,200 Dwellings

7.1 Schedule of Infrastructure Requirements

Table 7.1: Infrastructure Requirements for Dalton Barracks (Shippon)

Ref	Infrastructure Type	Scheme	Essential or Desirable	Delivery Partners	Delivery Mechanism	Indicative Cost	Notes
DB-T1	Transport	Upgrades (as necessary) to adjacent junctions	Essential	Developer and OCC	S106 / S278	£1,200,000	Costs derived from IDP (2016), LPP1, and LPP2 Preferred Options
DB-T2	Transport	Investigate access to A34 and A415 (if required).	Essential	Developer and OCC	S106 / S278		
DB-T3	Transport	Pedestrian and cycle improvement to access to proposed park and ride sites at Lodge hill and Cumnor	Essential	Developer and OCC	S106 / S278	£856,800	Costs derived from IDP (2016), LPP1, and LPP2 Preferred Options
DB-T4	Transport	New pedestrian, walking and cycling infrastructure improvements, including provision of new access, routes and bridleway within the country park.	Essential	Developer and OCC	S106 / S278		
DB-T5	Transport	Contributions to improve public transport, bus service improvements and improve service frequency, including exploring direct bus connection to the proposed Lodge Hill Transport Interchange.	Essential	Developer and OCC	S106 / S278	£3,284,400	Costs derived from IDP (2016), LPP1, and LPP2 Preferred Options
DB-T6	Transport	Contribute towards new high quality bus services to major employment sites at Milton Park, Harwell	Essential	Developer and OCC	S106 / S278		

Ref	Infrastructure Type	Scheme	Essential or Desirable	Delivery Partners	Delivery Mechanism	Indicative Cost	Notes
		Campus and Culham Science Park					
DB-E1	Education	Provision of 2.2ha of land for primary school site with early years provision.	Essential	Developer	S106	£1,332,000	Costs derived from IDP (2016), LPP1, and LPP2 Appendix F.
DB-E2	Education	Provision of a 2 form-entry primary school with early years provision.	Essential	Developer and OCC	S106 / CIL	£9,494,387	Costs derived from IDP (2016), LPP1, and LPP2 Appendix F.
DB-E3	Education	Provision of new secondary school (required to accommodate growth beyond the LPP2 period and beyond 2031) and contribution towards SEN.	Essential	Developer and OCC	S106 / CIL	TBC	Further discussion with OCC is required to determine requirement and cost of secondary school provision. Current understanding is for a 10.55 ha land take within the Dalton Barracks site.
DB -H1	Health and social care	Healthcare contributions	Essential	Developer and Ox CCG	On-site (if necessary): S106 Off-site: CIL	TBC	Further discussions with Oxfordshire CCG to confirm provision and costs.
DB -EM1	Emergency Services	Emergency Services Contributions	Desirable	Developer and Emergency providers	CIL	TBC	Further discussions with each of the emergency services to confirm provision and costs.
DB -CS1	Community and Sports Facilities: Outdoor Sport and Recreation	Bowling Green Contributions: 0.13 Greens	Desirable	Developer and VoWH	On-site S106 Off-site CIL	£18,200	Cost has been determined using Sport England's Facility Costs (June 2017). Further work is needed to determine the specific provision required on-site and where on site provision is not deemed appropriate, the level of any contributions which may be sought. This will be done through further iterations and work on the IDP as a live document and will ultimately be determined through the development management process when determining a future planning application.
DB -CS2		Outdoor Tennis: 0.12 club courts	Desirable			£112,000	Cost has been determined using Sport England's Facility Costs (June 2017). Further work is needed to determine the specific provision required on-site and where on site provision is

Ref	Infrastructure Type	Scheme	Essential or Desirable	Delivery Partners	Delivery Mechanism	Indicative Cost	Notes
							not deemed appropriate, the level of any contributions which may be sought. This will be done through further iterations and work on the IDP as a live document and will ultimately be determined through the development management process when determining a future planning application.
DB -CS3		AGPs: 0.09 AGPs	Desirable			£85,950	Cost has been determined using Sport England's Facility Costs (June 2017) for Senior Football. Further work is needed to determine the specific provision required on-site. Further work is needed to determine the specific provision required on-site and where on site provision is not deemed appropriate, the level of any contributions which may be sought. This will be done through further iterations and work on the IDP as a live document and will ultimately be determined through the development management process when determining a future planning application.
DB -CS4		Playing Pitch Provision: 3.33 ha	Desirable			£377,400	Cost has been determined using Sport England's Facility Costs (June 2017) for Senior Football. No costs for changing rooms have been included. VoWH Leisure and Sports Facility Study (2014) sets out that a senior football pitch is 0.75ha.
DB -CS5	Community and Sports Facilities: Community Facilities	Community Facilities Contributions: 344.16 sq.m	Desirable	Developer and VoWH	On-site S106 Off-site CIL	£521,058	Cost has been determined using LPP1 / IDP values. Further work is needed to determine the specific provision required on-site and where on site provision is not deemed appropriate, the level of any contributions which may be sought. This will be done through further iterations and work on the IDP as a live document and will ultimately be determined through the development management process when determining a future planning application.

Ref	Infrastructure Type	Scheme	Essential or Desirable	Delivery Partners	Delivery Mechanism	Indicative Cost	Notes
DB -CS6	Community and Sport Facilities: Indoor Sports	Sports Hall Contributions: 0.83 courts	Desirable	Developer and VoWH	On-site S106 Off-site CIL	£585,150	Cost has been determined using Sport England's Facility Costs (June 2017). Further work is needed to determine the specific provision required on-site and where on site provision is not deemed appropriate, the level of any contributions which may be sought. This will be done through further iterations and work on the IDP as a live document and will ultimately be determined through the development management process when determining a future planning application.
DB -CS7		Swimming Pools contributions: 32.58 sqm water space	Desirable			£109,552	Cost has been determined using Sport England's Facility Costs (June 2017). Further work is needed to determine the specific provision required on-site and where on site provision is not deemed appropriate, the level of any contributions which may be sought. This will be done through further iterations and work on the IDP as a live document and will ultimately be determined through the development management process when determining a future planning application.
DB -CS8		Health and Fitness contributions: 16.18 stations	Desirable			£440,640	Cost has been determined using Sport England's Facility Costs (June 2017). Further work is needed to determine the specific provision required on-site and where on site provision is not deemed appropriate, the level of any contributions which may be sought. This will be done through further iterations and work on the IDP as a live document and will ultimately be determined through the development management process when determining a future planning application.
DB CS9		Bowling Green contributions: 0.23 rinks	Desirable			£81,458	Cost has been determined using Sport England's Facility Costs (June 2017). Further work is

Ref	Infrastructure Type	Scheme	Essential or Desirable	Delivery Partners	Delivery Mechanism	Indicative Cost	Notes
							needed to determine the specific provision required on-site and where on site provision is not deemed appropriate, the level of any contributions which may be sought. This will be done through further iterations and work on the IDP as a live document and will ultimately be determined through the development management process when determining a future planning application.
DB CS10		Squash: 0.29 courts	Desirable			TBC	Further work is needed to determine the specific provision required on-site and where on site provision is not deemed appropriate, the level of any contributions which may be sought. This will be done through further iterations and work on the IDP as a live document and will ultimately be determined through the development management process when determining a future planning application.
DB -GI1	Green Infrastructure and Open Space: Open Space, Allotments and Children's Play	Designated Equipped Playing Space: 0.72 ha	Desirable	Developer and VoWH	On-site S106 Off-site CIL	TBC	Further work is needed to determine the specific provision required on-site and where on site provision is not deemed appropriate, the level of any contributions which may be sought. This will be done through further iterations and work on the IDP as a live document and will ultimately be determined through the development management process when determining a future planning application.
DB -GI2		Youth/MUGA: 0.86 ha	Desirable			£1,594,629	Further work is needed to determine the specific provision required on-site and where on site provision is not deemed appropriate, the level of any contributions which may be sought. This will be done through further iterations and work on the IDP as a live document and will ultimately be determined through the

Ref	Infrastructure Type	Scheme	Essential or Desirable	Delivery Partners	Delivery Mechanism	Indicative Cost	Notes
							development management process when determining a future planning application.
DB –GI3		15% of residential area as Public Open Space: 43.19 ha	Desirable			£2,161,860	Cost has been determined using Spon's Architects' and Builders' Price Book (2017). Further work is needed to determine the specific provision required on-site and where on site provision is not deemed appropriate, the level of any contributions which may be sought. This will be done through further iterations and work on the IDP as a live document and will ultimately be determined through the development management process when determining a future planning application.
DB –GI4		Allotment Provision: 0.66 ha	Desirable			£26,212	Cost has been determined using Spon's Architects' and Builders' Price Book (2017). Further work is needed to determine the specific provision required on-site and where on site provision is not deemed appropriate, the level of any contributions which may be sought. This will be done through further iterations and work on the IDP as a live document and will ultimately be determined through the development management process when determining a future planning application.
DB-GI5	Green Infrastructure and Open Space: Country Park	Country Park	Essential	Developer and VoWH	S106	TBC	Further work is needed to determine the specific provision required.
DB -U1	Utilities	Localised upgrades to electricity and gas provision	Essential	Developer and Scottish & Southern Electricity Networks	Developer agreement with statutory undertaker	TBC	Further work is needed to determine the specific provision required. This will be done through more detailed discussion with the statutory provider during the development management process when determining a future planning application

Ref	Infrastructure Type	Scheme	Essential or Desirable	Delivery Partners	Delivery Mechanism	Indicative Cost	Notes
DB-U2	Utilities	Strategic Water Supply Upgrades	Essential	Developer and Thames Water	Developer agreement with statutory undertaker	TBC	Further work is needed to determine the specific provision required. This will be done through more detailed discussion with the statutory provider during the development management process when determining a future planning application
DB –U3	Utilities	Localised upgrade to sewer, wastewater and drainage networks.	Essential	Developer and Thames Water	Developer agreement with statutory undertaker	£600,000	Further work is needed to determine the specific provision required. This will be done through more detailed discussion with the statutory provider during the development management process when determining a future planning application
DB – FR1	Flood Risk	Enhancement, improvement and upgrades to culverts and streams on-site	Essential	Developer and OCC	S106	TBC	Further work is needed to determine the specific provision required. This will be done through more detailed discussion with the statutory provider during the development management process when determining a future planning application
DB –FR2	Flood Risk	Sustainable Drainage System (SuDS)	Essential	Developer and OCC	S106	TBC	Further work is needed to determine the specific provision required. This will be done through more detailed discussion with the statutory provider during the development management process when determining a future planning application

8 East of Kingston Bagpuize – 600 Dwellings

8.1 Schedule of Infrastructure Requirements

Table 8.1: Infrastructure Requirements for East of Kingston Bagpuize

Ref	Infrastructure Type	Scheme	Essential or Desirable	Delivery Partners	Delivery Mechanism	Indicative Cost	Notes
EKB-T1	Transport	Access to be provided from A420 and the A415 via two new developer delivered roundabouts and a new link road through the site.	Essential	Developer and OCC	S106 / S278	£600,000	Costs derived from IDP (2016), LPP1, and LPP2 Preferred Options
EKB-T2	Transport	Removal of existing lay-bays on the A420 and replacement.	Essential	Developer and OCC	S106 / S278		
EKB-T3	Transport	Enhancement to the existing bridleway / cycle route to connect back to Kingston Bagpuize, and to Abingdon-on-Thames.	Essential	Developer and OCC	S106 / S278	£1,642,200	Costs derived from IDP (2016), LPP1, and LPP2 Preferred Options
EKB-T4	Transport	Pedestrian, walking and cycling infrastructure to improve connectivity across the A420.	Essential	Developer and OCC	S106 / S278		
EKB-T5	Transport	Pedestrian and cycle crossing on A415 to link to Kingston Business Park.	Essential	Developer and OCC	S106 / S278		
EKB-T6	Transport	Contribute towards enhancing bus services, creating better links	Essential	Developer and OCC	S106 / S278	£428,400	Costs derived from IDP (2016), LPP1, and LPP2 Preferred Options

Ref	Infrastructure Type	Scheme	Essential or Desirable	Delivery Partners	Delivery Mechanism	Indicative Cost	Notes
		through the site, and associated infrastructure.					
EKB-E1	Education	A new 2 form entry primary school with early years provision.	Essential	Developer and OCC	S106 / CIL	£9,494,387	Costs derived from IDP (2016), LPP1, and LPP2 Preferred Options
EKB-E2	Education	Provision of 2.2 hectares of land for primary school with early years provision.	Essential	Developer and OCC	S106	£1,332,000	Costs derived from IDP (2016), LPP1, and LPP2 Preferred Options
EKB-E3	Education	Contributions to secondary school and SEN school capacity across the district.	Essential	Developer and OCC	CIL	TBC	Further work is needed to determine the specific provision required and cost. This will need to be done through more detailed discussion with the Education Authority (OCC).
EKB-H1	Health and social care	Contribution to general enhancement of capacity of health and social care	Essential	Developer and CCG	If necessary, on-site: S106 Off-site: CIL	TBC	Further discussions with Oxfordshire CCG to confirm provision and costs.
EKB-EM1	Emergency services	Contribution to general enhancement of capacity of emergency services	Desirable	Developer and Emergency Services	CIL	TBC	Further discussions with each of the emergency services to confirm provision and costs.
EKB -CS1	Community and Sports Facilities: Outdoor Sport and Recreation	Bowling Green Contributions: 0.07 Greens	Desirable	Developer and VoWH	On-site S106 Off-site CIL	£9,800	Cost has been determined using Sport England's Facility Costs (June 2017). Further work is needed to determine the specific provision required on-site and where on site provision is not deemed appropriate, the level of any contributions which may be sought. This will be done through further iterations and work on the IDP as a live document and will ultimately be determined through the development management process when determining a future planning application.
EKB -CS2		Outdoor Tennis: 0.56 club courts	Desirable			£56,000	Cost has been determined using Sport England's Facility Costs (June 2017). Further work is needed to determine the specific provision required on-site and where on site provision is not deemed appropriate, the level of any contributions which

Ref	Infrastructure Type	Scheme	Essential or Desirable	Delivery Partners	Delivery Mechanism	Indicative Cost	Notes
							may be sought. This will be done through further iterations and work on the IDP as a live document and will ultimately be determined through the development management process when determining a future planning application.
EKB -CS3		AGPs: 0.04 AGPs	Desirable			£38,200	Cost has been determined using Sport England's Facility Costs (June 2017) for Senior Football. Further work is needed to determine the specific provision required on-site. Further work is needed to determine the specific provision required on-site and where on site provision is not deemed appropriate, the level of any contributions which may be sought. This will be done through further iterations and work on the IDP as a live document and will ultimately be determined through the development management process when determining a future planning application.
EKB -CS4		Playing Pitch Provision: 1.66 ha	Desirable			£188,133	Cost has been determined using Sport England's Facility Costs (June 2017) for Senior Football. No costs for changing rooms have been included. VoWH Leisure and Sports Facility Study (2014) sets out that a senior football pitch is 0.75ha.
EKB -CS5	Community and Sports Facilities: Community Facilities	Community Facilities Contributions: 172.08 sq.m	Desirable	Developer and VoWH	On-site S106 Off-site CIL	£260,529	Cost has been determined using LPP1 / IDP values. Further work is needed to determine the specific provision required on-site and where on site provision is not deemed appropriate, the level of any contributions which may be sought. This will be done through further iterations and work on the IDP as a live document and will ultimately be determined through the development management process when determining a future planning application.
EKB -CS6	Community and Sport	Sports Hall Contributions: 0.42 courts	Desirable	Developer and VoWH	On-site S106 Off-site CIL	£296,100	Cost has been determined using Sport England's Facility Costs (June 2017). Further work is needed to determine the specific provision required on-

Ref	Infrastructure Type	Scheme	Essential or Desirable	Delivery Partners	Delivery Mechanism	Indicative Cost	Notes
	Facilities: Indoor Sports						site and where on site provision is not deemed appropriate, the level of any contributions which may be sought. This will be done through further iterations and work on the IDP as a live document and will ultimately be determined through the development management process when determining a future planning application.
EKB -CS7		Swimming Pools contributions: 16.29 sqm water space	Desirable			£54,776	Cost has been determined using Sport England's Facility Costs (June 2017). Further work is needed to determine the specific provision required on-site and where on site provision is not deemed appropriate, the level of any contributions which may be sought. This will be done through further iterations and work on the IDP as a live document and will ultimately be determined through the development management process when determining a future planning application.
EKB -CS8		Health and Fitness contributions: 8.09 stations	Desirable			£220,320	Cost has been determined using Sport England's Facility Costs (June 2017). Further work is needed to determine the specific provision required on-site and where on site provision is not deemed appropriate, the level of any contributions which may be sought. This will be done through further iterations and work on the IDP as a live document and will ultimately be determined through the development management process when determining a future planning application.
EKB CS9		Bowling Green contributions: 0.11 rinks	Desirable			£38,958	Cost has been determined using Sport England's Facility Costs (June 2017). Further work is needed to determine the specific provision required on-site and where on site provision is not deemed appropriate, the level of any contributions which may be sought. This will be done through further iterations and work on the IDP as a live document and will ultimately be determined through the

Ref	Infrastructure Type	Scheme	Essential or Desirable	Delivery Partners	Delivery Mechanism	Indicative Cost	Notes
							development management process when determining a future planning application.
EKB CS10		Squash: 0.14 courts	Desirable			TBC	Further work is needed to determine the specific provision required on-site and where on site provision is not deemed appropriate, the level of any contributions which may be sought. This will be done through further iterations and work on the IDP as a live document and will ultimately be determined through the development management process when determining a future planning application.
EKB -GI1	Green Infrastructure and Open Space: Open Space, Allotments and Children's Play	Designated Equipped Playing Space: 0.36 ha	Desirable	Developer and VoWH	On-site S106 Off-site CIL	TBC	Further work is needed to determine the specific provision required on-site and where on site provision is not deemed appropriate, the level of any contributions which may be sought. This will be done through further iterations and work on the IDP as a live document and will ultimately be determined through the development management process when determining a future planning application.
EKB -GI2		Youth/MUGA: 0.43 ha	Desirable			£797,315	Further work is needed to determine the specific provision required on-site and where on site provision is not deemed appropriate, the level of any contributions which may be sought. This will be done through further iterations and work on the IDP as a live document and will ultimately be determined through the development management process when determining a future planning application.
EKB -GI3		15% of residential area as Public Open Space: 5.2 ha	Desirable			£260,735	Cost has been determined using Spon's Architects' and Builders' Price Book (2017). Further work is needed to determine the specific provision required on-site and where on site provision is not deemed appropriate, the level of any contributions which may be sought. This will be done through

Ref	Infrastructure Type	Scheme	Essential or Desirable	Delivery Partners	Delivery Mechanism	Indicative Cost	Notes
							further iterations and work on the IDP as a live document and will ultimately be determined through the development management process when determining a future planning application.
EKB –GI4		Allotment Provision: 0.57 ha	Desirable			£13,024	Cost has been determined using Spon's Architects' and Builders' Price Book (2017). Further work is needed to determine the specific provision required on-site and where on site provision is not deemed appropriate, the level of any contributions which may be sought. This will be done through further iterations and work on the IDP as a live document and will ultimately be determined through the development management process when determining a future planning application.
EKB-U1	Utilities	Local reinforcement of electricity network	Essential	Developer / Scottish & Southern Electricity Networks	Developer agreement with statutory undertaker	TBC	Further work is needed to determine the specific provision required. This will be done through more detailed discussion with the statutory provider during the development management process when determining a future planning application
EKB-U2	Utilities	Possible relocation / undergrounding of electricity cables	Essential	Developer / Scottish & Southern Electricity Networks	Developer agreement with statutory undertaker	TBC	Further work is needed to determine the specific provision required. This will be done through more detailed discussion with the statutory provider during the development management process when determining a future planning application
EKB-U3	Utilities	Local reinforcement of gas network	Essential	Developer / SGN	Developer agreement with statutory undertaker	TBC	Further work is needed to determine the specific provision required. This will be done through more detailed discussion with the statutory provider during the development management process when determining a future planning application
EKB-U4	Utilities	Local reinforcement of water supply network and localised upgrade to	Essential	Developer and Thames Water	Developer agreement with	TBC	Further work is needed to determine the specific provision required. This will be done through more detailed discussion with the statutory

Ref	Infrastructure Type	Scheme	Essential or Desirable	Delivery Partners	Delivery Mechanism	Indicative Cost	Notes
		sewer, wastewater and drainage networks.			statutory undertaker		provider during the development management process when determining a future planning application
EKB-U5	Utilities	Enhancement of capacity at sewage treatment works	Essential	Developer and Thames Water	Developer agreement with statutory undertaker	£300,000	Further work is needed to determine the specific provision required. This will be done through more detailed discussion with the statutory provider during the development management process when determining a future planning application
EKB-FR1	Flood Risk	Sustainable Drainage System (SuDS)	Essential	Developer / OCC	S106	TBC	Further work is needed to determine the specific provision required. This will be done through more detailed discussion with the statutory provider during the development management process when determining a future planning application

9 South East of Marcham – 90 Dwellings

9.1 Schedule of Infrastructure Requirements

Table 9.1: Infrastructure Requirements for South East of Marcham

Ref	Infrastructure Type	Scheme	Essential or Desirable	Delivery Partners	Delivery Mechanism	Indicative Cost	Notes
SEM-T1	Transport	Access from A415 (Marcham Road) via new t-junction with the A415.	Essential	Developer and OCC	S106 / S278	£90,000	Costs derived from IDP (2016), LPP1, and LPP2 Preferred Options
SEM-T2	Transport	Off-site mitigation for cumulative impacts on strategic road network (if required). This includes consideration of AQMA in Marcham.	Desirable	Developer and OCC	CIL	TBC	Costs derived from IDP (2016), LPP1, and LPP2 Preferred Options
SEM-T3	Transport	Improvements along the A415 (Marcham bypass, Frilford Lights) and elsewhere if required.	Essential	Developer and OCC	S106 / S278	TBC	Costs derived from IDP (2016), LPP1, and LPP2 Preferred Options
SEM-T4	Transport	Pedestrian, walking and cycling infrastructure to improve accessibility to the village, the Marcham Interchange, and to Abingdon-on-Thames.	Essential	Developer and OCC	S106 / S278	£246,330	Costs derived from IDP (2016), LPP1, and LPP2 Preferred Options
SEM-T5	Transport	Contribution to existing public transport routes in the area.	Essential	Developer and OCC	S106 / S278	£64,260	Costs derived from IDP (2016), LPP1, and LPP2 Preferred Options

Ref	Infrastructure Type	Scheme	Essential or Desirable	Delivery Partners	Delivery Mechanism	Indicative Cost	Notes
SEM-E1	Education	Contribution to general enhancement of capacity across early years, primary, secondary, and SEN education	Essential	Developer and OCC	CIL	TBC	Further work is needed to determine the specific provision required and cost. This will need to be done through more detailed discussion with the Education Authority (OCC).
SEM-H1	Health and social care	Contribution to general enhancement of capacity of health and social care	Essential	Developer and CCG	CIL	TBC	Further discussions with Oxfordshire CCG to confirm provision and costs.
SEM-EM1	Emergency services	Contribution to general enhancement of capacity of emergency services	Desirable	Developer and Emergency Services	CIL	TBC	Further discussions with each of the emergency services to confirm provision and costs.
SEM - CS1	Community and Sports Facilities: Outdoor Sport and Recreation	Bowling Green Contributions: 0.01 Greens	Desirable	Developer and VoWH	On-site S106 Off-site CIL	£1,400	Cost has been determined using Sport England's Facility Costs (June 2017). Further work is needed to determine the specific provision required on-site and where on site provision is not deemed appropriate, the level of any contributions which may be sought. This will be done through further iterations and work on the IDP as a live document and will ultimately be determined through the development management process when determining a future planning application.
SEM - CS2		Outdoor Tennis: 0.08 club courts	Desirable			£8,000	Cost has been determined using Sport England's Facility Costs (June 2017). Further work is needed to determine the specific provision required on-site and where on site provision is not deemed appropriate, the level of any contributions which may be sought. This will be done through further iterations and work on the IDP as a live document and will ultimately be determined through the development management process when determining a future planning application.
SEM - CS3		AGPs: 0.006 AGPs	Desirable			£5,730	Cost has been determined using Sport England's Facility Costs (June 2017) for Senior Football. Further work is needed to determine the specific provision required on-site. Further work is needed to

Ref	Infrastructure Type	Scheme	Essential or Desirable	Delivery Partners	Delivery Mechanism	Indicative Cost	Notes
							determine the specific provision required on-site and where on site provision is not deemed appropriate, the level of any contributions which may be sought. This will be done through further iterations and work on the IDP as a live document and will ultimately be determined through the development management process when determining a future planning application.
SEM - CS4		Playing Pitch Provision: 0.25 ha	Desirable			£28,333	Cost has been determined using Sport England's Facility Costs (June 2017) for Senior Football. No costs for changing rooms have been included. VoWH Leisure and Sports Facility Study (2014) sets out that a senior football pitch is 0.75ha.
SEM - CS5	Community and Sports Facilities: Community Facilities	Community Facilities Contributions: 25.8 sq.m	Desirable	Developer and VoWH	On-site S106 Off-site CIL	£39,079	Cost has been determined using LPP1 / IDP values. Further work is needed to determine the specific provision required on-site and where on site provision is not deemed appropriate, the level of any contributions which may be sought. This will be done through further iterations and work on the IDP as a live document and will ultimately be determined through the development management process when determining a future planning application.
SEM - CS6	Community and Sport Facilities: Indoor Sports	Sports Hall Contributions: 0.06 courts	Desirable	Developer and VoWH	On-site S106 Off-site CIL	£42,300	Cost has been determined using Sport England's Facility Costs (June 2017). Further work is needed to determine the specific provision required on-site and where on site provision is not deemed appropriate, the level of any contributions which may be sought. This will be done through further iterations and work on the IDP as a live document and will ultimately be determined through the development management process when determining a future planning application.
SEM - CS7		Swimming Pools contributions: 2.44 sqm water space	Desirable			£8,205	Cost has been determined using Sport England's Facility Costs (June 2017). Further work is needed to determine the specific provision required on-site

Ref	Infrastructure Type	Scheme	Essential or Desirable	Delivery Partners	Delivery Mechanism	Indicative Cost	Notes
							and where on site provision is not deemed appropriate, the level of any contributions which may be sought. This will be done through further iterations and work on the IDP as a live document and will ultimately be determined through the development management process when determining a future planning application.
SEM - CS8		Health and Fitness contributions: 1.21 stations	Desirable			£32,912	Cost has been determined using Sport England's Facility Costs (June 2017). Further work is needed to determine the specific provision required on-site and where on site provision is not deemed appropriate, the level of any contributions which may be sought. This will be done through further iterations and work on the IDP as a live document and will ultimately be determined through the development management process when determining a future planning application.
SEM - CS9		Bowling Green contributions: 0.017 rinks	Desirable			£6,020	Cost has been determined using Sport England's Facility Costs (June 2017). Further work is needed to determine the specific provision required on-site and where on site provision is not deemed appropriate, the level of any contributions which may be sought. This will be done through further iterations and work on the IDP as a live document and will ultimately be determined through the development management process when determining a future planning application.
SEM CS10		Squash:0.02 courts	Desirable			TBC	Further work is needed to determine the specific provision required on-site and where on site provision is not deemed appropriate, the level of any contributions which may be sought. This will be done through further iterations and work on the IDP as a live document and will ultimately be determined through the development management process when determining a future planning application.

Ref	Infrastructure Type	Scheme	Essential or Desirable	Delivery Partners	Delivery Mechanism	Indicative Cost	Notes
SEM -GI1	Green Infrastructure and Open Space: Open Space, Allotments and Children's Play	Designated Equipped Playing Space: 0.05 ha	Desirable	Developer and VoWH	On-site S106 Off-site CIL	TBC	Further work is needed to determine the specific provision required on-site and where on site provision is not deemed appropriate, the level of any contributions which may be sought. This will be done through further iterations and work on the IDP as a live document and will ultimately be determined through the development management process when determining a future planning application.
SEM – GI2		Youth/MUGA: 0.06 ha	Desirable			£111,253	Further work is needed to determine the specific provision required on-site and where on site provision is not deemed appropriate, the level of any contributions which may be sought. This will be done through further iterations and work on the IDP as a live document and will ultimately be determined through the development management process when determining a future planning application.
SEM – GI3		15% of residential area as Public Open Space: 0.52 ha	Desirable			£25,975	Cost has been determined using Spon's Architects' and Builders' Price Book (2017). Further work is needed to determine the specific provision required on-site and where on site provision is not deemed appropriate, the level of any contributions which may be sought. This will be done through further iterations and work on the IDP as a live document and will ultimately be determined through the development management process when determining a future planning application.
SEM – GI4		Allotment Provision: 0.086 ha	Desirable			£1,965	Cost has been determined using Spon's Architects' and Builders' Price Book (2017). Further work is needed to determine the specific provision required on-site and where on site provision is not deemed appropriate, the level of any contributions which may be sought. This will be done through further iterations and work on the IDP as a live document and will ultimately be determined through the

Ref	Infrastructure Type	Scheme	Essential or Desirable	Delivery Partners	Delivery Mechanism	Indicative Cost	Notes
							development management process when determining a future planning application.
SEM-U1	Utilities	Local reinforcement of electricity network	Essential	Developer / Scottish & Southern Electricity Networks	Developer agreement with statutory undertaker	TBC	Further work is needed to determine the specific provision required. This will be done through more detailed discussion with the statutory provider during the development management process when determining a future planning application
SEM-U2	Utilities	Possible relocation / undergrounding of electricity cables	Essential	Developer / Scottish & Southern Electricity Networks	Developer agreement with statutory undertaker	TBC	Further work is needed to determine the specific provision required. This will be done through more detailed discussion with the statutory provider during the development management process when determining a future planning application
SEM-U3	Utilities	Local reinforcement of gas network	Essential	Developer / SGN	Developer agreement with statutory undertaker	TBC	Further work is needed to determine the specific provision required. This will be done through more detailed discussion with the statutory provider during the development management process when determining a future planning application
SEM-U4	Utilities	Local reinforcement of water supply network	Essential	Developer and Thames Water	Developer agreement with statutory undertaker	TBC	Further work is needed to determine the specific provision required. This will be done through more detailed discussion with the statutory provider during the development management process when determining a future planning application
SEM-U5	Utilities	Enhancement of capacity at sewage treatment works	Essential	Developer and Thames Water	Developer agreement with statutory undertaker	£60,000	Further work is needed to determine the specific provision required. This will be done through more detailed discussion with the statutory provider during the development management process when determining a future planning application
SEM-FR1	Flood Risk	Sustainable Drainage System (SuDS)	Essential	Developer / OCC	S106	TBC	Further work is needed to determine the specific provision required. This will be done through more detailed discussion with the statutory provider during the development management process when determining a future planning application

10 North East of East Hanney – 80 Dwellings

10.1 Schedule of Infrastructure Requirements

Table 10.1: Infrastructure Requirements for North East of East Hanney

Ref	Infrastructure Type	Scheme	Essential or Desirable	Delivery Partners	Delivery Mechanism	Indicative Cost	Notes
NEH-T1	Transport	Consider access arrangements to A338.	Essential	Developer and OCC	S106 / S278	£80,000	Costs derived from IDP (2016), LPP1, and LPP2 Preferred Options
NEH-T2	Transport	Contribution to improvements along the along the A338 (Frilford Lights), and elsewhere if required.	Essential	Developer and OCC	CIL	TBC	Costs derived from IDP (2016), LPP1, and LPP2 Preferred Options
NEH-T3	Transport	Pedestrian, walking and cycling infrastructure to improve accessibility to the village.	Essential	Developer and OCC	S106 / S278	£218,960	Costs derived from IDP (2016), LPP1, and LPP2 Preferred Options
NEH-T4	Transport	Contribution towards the enhancement of bus services in the area.	Essential	Developer and OCC	S106 / S278	£57,120	Costs derived from IDP (2016), LPP1, and LPP2 Preferred Options
NEH-E1	Education	Contribution to general enhancement of capacity across early years, primary, secondary and SEN education.	Essential	Developer and OCC	CIL	TBC	Further work is needed to determine the specific provision required and cost. This will need to be done through more detailed discussion with the Education Authority (OCC).
NEH-H1	Health and social care	Contribution to general enhancement of capacity of health and social care	Essential	Developer and CCG	If necessary, on-site: S106 Off-site: CIL	TBC	Further discussions with Oxfordshire CCG to confirm provision and costs.
NEH-EM1	Emergency services	Contribution to general enhancement of capacity of emergency services	Desirable	Developer and Emergency Services	CIL	TBC	Further discussions with each of the emergency services to confirm provision and costs.

Ref	Infrastructure Type	Scheme	Essential or Desirable	Delivery Partners	Delivery Mechanism	Indicative Cost	Notes
NEH -CS1	Community and Sports Facilities: Outdoor Sport and Recreation	Bowling Green Contributions: 0.01 Greens	Desirable	Developer and VoWH	On-site S106 Off-site CIL	£1,400	Cost has been determined using Sport England's Facility Costs (June 2017). Further work is needed to determine the specific provision required on-site and where on site provision is not deemed appropriate, the level of any contributions which may be sought. This will be done through further iterations and work on the IDP as a live document and will ultimately be determined through the development management process when determining a future planning application.
NEH -CS2		Outdoor Tennis: 0.07 club courts	Desirable			£7,000	Cost has been determined using Sport England's Facility Costs (June 2017). Further work is needed to determine the specific provision required on-site and where on site provision is not deemed appropriate, the level of any contributions which may be sought. This will be done through further iterations and work on the IDP as a live document and will ultimately be determined through the development management process when determining a future planning application.
NEH -CS3		AGPs: 0.01 AGPs	Desirable			£9,550	Cost has been determined using Sport England's Facility Costs (June 2017) for Senior Football. Further work is needed to determine the specific provision required on-site. Further work is needed to determine the specific provision required on-site and where on site provision is not deemed appropriate, the level of any contributions which may be sought. This will be done through further iterations and work on the IDP as a live document and will ultimately be determined through the development management process when determining a future planning application.
NEH -CS4		Playing Pitch Provision: 0.22 ha	Desirable			£24,933	Cost has been determined using Sport England's Facility Costs (June 2017) for Senior Football. No costs for changing rooms have been included.

Ref	Infrastructure Type	Scheme	Essential or Desirable	Delivery Partners	Delivery Mechanism	Indicative Cost	Notes
							VoWH Leisure and Sports Facility Study (2014) sets out that a senior football pitch is 0.75ha.
NEH -CS5	Community and Sports Facilities: Community Facilities	Community Facilities Contributions: 23.0 sq.m	Desirable	Developer and VoWH	On-site S106 Off-site CIL	£34,737	Cost has been determined using LPP1 / IDP values. Further work is needed to determine the specific provision required on-site and where on site provision is not deemed appropriate, the level of any contributions which may be sought. This will be done through further iterations and work on the IDP as a live document and will ultimately be determined through the development management process when determining a future planning application.
NEH -CS6	Community and Sport Facilities: Indoor Sports	Sports Hall Contributions: 0.06 courts	Desirable	Developer and VoWH	On-site S106 Off-site CIL	£42,300	Cost has been determined using Sport England's Facility Costs (June 2017). Further work is needed to determine the specific provision required on-site and where on site provision is not deemed appropriate, the level of any contributions which may be sought. This will be done through further iterations and work on the IDP as a live document and will ultimately be determined through the development management process when determining a future planning application.
NEH -CS7		Swimming Pools contributions: 2.17 sqm water space	Desirable			£7,297	Cost has been determined using Sport England's Facility Costs (June 2017). Further work is needed to determine the specific provision required on-site and where on site provision is not deemed appropriate, the level of any contributions which may be sought. This will be done through further iterations and work on the IDP as a live document and will ultimately be determined through the development management process when determining a future planning application.
NEH -CS8		Health and Fitness contributions: 1.08 stations	Desirable			£29,920	Cost has been determined using Sport England's Facility Costs (June 2017). Further work is needed to determine the specific provision required on-site and where on site provision is not deemed appropriate,

Ref	Infrastructure Type	Scheme	Essential or Desirable	Delivery Partners	Delivery Mechanism	Indicative Cost	Notes
							the level of any contributions which may be sought. This will be done through further iterations and work on the IDP as a live document and will ultimately be determined through the development management process when determining a future planning application.
NEH -CS9		Bowling Green contributions: 0.02 rinks	Desirable			£7,083	Cost has been determined using Sport England's Facility Costs (June 2017). Further work is needed to determine the specific provision required on-site and where on site provision is not deemed appropriate, the level of any contributions which may be sought. This will be done through further iterations and work on the IDP as a live document and will ultimately be determined through the development management process when determining a future planning application.
NEH CS10		Squash: 0.02 courts	Desirable			TBC	Further work is needed to determine the specific provision required on-site and where on site provision is not deemed appropriate, the level of any contributions which may be sought. This will be done through further iterations and work on the IDP as a live document and will ultimately be determined through the development management process when determining a future planning application.
NEH -GI1	Green Infrastructure and Open Space: Open Space, Allotments and Children's Play	Designated Equipped Playing Space: 0.05 ha	Desirable	Developer and VoWH	On-site S106 Off-site CIL	TBC	Further work is needed to determine the specific provision required on-site and where on site provision is not deemed appropriate, the level of any contributions which may be sought. This will be done through further iterations and work on the IDP as a live document and will ultimately be determined through the development management process when determining a future planning application.
NEH -GI2		Youth/MUGA: 0.06 ha	Desirable			£111,253	Further work is needed to determine the specific provision required on-site and where on site provision is not deemed appropriate, the level of any

Ref	Infrastructure Type	Scheme	Essential or Desirable	Delivery Partners	Delivery Mechanism	Indicative Cost	Notes
							contributions which may be sought. This will be done through further iterations and work on the IDP as a live document and will ultimately be determined through the development management process when determining a future planning application.
NEH –GI3		15% of residential area as Public Open Space: 0.52 ha	Desirable			£25,825	Cost has been determined using Spon's Architects' and Builders' Price Book (2017). Further work is needed to determine the specific provision required on-site and where on site provision is not deemed appropriate, the level of any contributions which may be sought. This will be done through further iterations and work on the IDP as a live document and will ultimately be determined through the development management process when determining a future planning application.
NEH –GI4		Allotment Provision: 0.08 ha	Desirable			£1,828	Cost has been determined using Spon's Architects' and Builders' Price Book (2017). Further work is needed to determine the specific provision required on-site and where on site provision is not deemed appropriate, the level of any contributions which may be sought. This will be done through further iterations and work on the IDP as a live document and will ultimately be determined through the development management process when determining a future planning application.
NEH-U1	Electricity	Local reinforcement of electricity network	Essential	Developer / Scottish & Southern Electricity Networks	Developer agreement with statutory undertaker	TBC	Further work is needed to determine the specific provision required. This will be done through more detailed discussion with the statutory provider during the development management process when determining a future planning application
NEH-U2	Gas	Local reinforcement of gas network	Essential	Developer / SGN	Developer agreement with statutory undertaker	TBC	Further work is needed to determine the specific provision required. This will be done through more detailed discussion with the statutory provider during the development management process when determining a future planning application

Ref	Infrastructure Type	Scheme	Essential or Desirable	Delivery Partners	Delivery Mechanism	Indicative Cost	Notes
NEH-U3	Water Supply	Local reinforcement of water supply network	Essential	Developer and Thames Water	Developer agreement with statutory undertaker	TBC	Further work is needed to determine the specific provision required. This will be done through more detailed discussion with the statutory provider during the development management process when determining a future planning application
NEH-U4	Sewage Treatment Works	Enhancement of capacity at sewage treatment works	Essential	Developer and Thames Water	Developer agreement with statutory undertaker	£40,000	Further work is needed to determine the specific provision required. This will be done through more detailed discussion with the statutory provider during the development management process when determining a future planning application
NEH-FRD1	Surface Water Drainage	Sustainable Drainage System (SuDS)	Essential	Developer / OCC	S106	TBC	Further work is needed to determine the specific provision required. This will be done through more detailed discussion with the statutory provider during the development management process when determining a future planning application

11 East of East Hanney – 50 Dwellings

11.1 Schedule of Infrastructure Requirements

Table 11.1: Infrastructure Requirements for East of East Hanney

Ref	Infrastructure Type	Scheme	Essential or Desirable	Delivery Partners	Delivery Mechanism	Indicative Cost	Notes
EEH-T1	Transport	Consider access arrangements for site, and impacts on junction capacity.	Essential	Developer and OCC	S106 / S278	£50,000	Costs derived from IDP (2016), LPP1, and LPP2 Preferred Options
EEH-T2	Transport	Contribution to improvements along the A338 (Frilford Lights), and elsewhere if required.	Essential	Developer and OCC	CIL	TBC	Costs derived from IDP (2016), LPP1, and LPP2 Preferred Options
EEH-T3	Transport	Pedestrian, walking and cycling infrastructure to improve accessibility to the village.	Essential	Developer and OCC	S106 / S278	£136,850	Costs derived from IDP (2016), LPP1, and LPP2 Preferred Options
EEH-T4	Transport	Contribution towards the enhancement of bus services in the area	Essential	Developer and OCC	S106 / S278	£35,700	Costs derived from IDP (2016), LPP1, and LPP2 Preferred Options
EEH-E1	Education	Contribution to the expansion of the existing St. James Primary School and any necessary nursery provision. Contribution towards the expansion of existing secondary school places and contribution towards SEN in the area	Essential	Developer and OCC	CIL	TBC	Further work is needed to determine the specific provision required and cost. This will need to be done through more detailed discussion with the Education Authority (OCC).

Ref	Infrastructure Type	Scheme	Essential or Desirable	Delivery Partners	Delivery Mechanism	Indicative Cost	Notes
EEH-H1	Health and social care	Contribution to general enhancement of capacity of health and social care	Essential	Developer and CCG	If necessary, on-site: S106 Off-site: CIL	TBC	Further discussions with Oxfordshire CCG to confirm provision and costs.
EEH-EM1	Emergency services	Contribution to general enhancement of capacity of emergency services	Desirable	Developer and Emergency Services	CIL	TBC	Further discussions with each of the emergency services to confirm provision and costs.
EEH-CS1	Community and Sports Facilities: Outdoor Sport and Recreation	Bowling Green Contributions: 0.01 Greens	Desirable	Developer and VoWH	On-site S106 Off-site CIL	£1,400	Cost has been determined using Sport England's Facility Costs (June 2017). Further work is needed to determine the specific provision required on-site and where on site provision is not deemed appropriate, the level of any contributions which may be sought. This will be done through further iterations and work on the IDP as a live document and will ultimately be determined through the development management process when determining a future planning application.
EEH-CS2		Outdoor Tennis: 0.05 club courts	Desirable			£5,000	Cost has been determined using Sport England's Facility Costs (June 2017). Further work is needed to determine the specific provision required on-site and where on site provision is not deemed appropriate, the level of any contributions which may be sought. This will be done through further iterations and work on the IDP as a live document and will ultimately be determined through the development management process when determining a future planning application.
EEH-CS3		AGPs: 0.00 AGPs	Desirable			£0.00	Cost has been determined using Sport England's Facility Costs (June 2017) for Senior Football. Further work is needed to determine the specific provision required on-site. Further work is needed to determine the specific provision required on-site and where on site provision is not deemed appropriate, the level of any contributions which may be sought. This will be done through further

Ref	Infrastructure Type	Scheme	Essential or Desirable	Delivery Partners	Delivery Mechanism	Indicative Cost	Notes
							iterations and work on the IDP as a live document and will ultimately be determined through the development management process when determining a future planning application.
EEH-CS4		Playing Pitch Provision: 0.14 ha	Desirable			£15,867	Cost has been determined using Sport England's Facility Costs (June 2017) for Senior Football. No costs for changing rooms have been included. VoWH Leisure and Sports Facility Study (2014) sets out that a senior football pitch is 0.75ha.
EEH-CS5	Community and Sports Facilities: Community Facilities	Community Facilities Contributions: 14.34 sq.m	Desirable	Developer and VoWH	On-site S106 Off-site CIL	£21,711	Cost has been determined using LPP1 / IDP values. Further work is needed to determine the specific provision required on-site and where on site provision is not deemed appropriate, the level of any contributions which may be sought. This will be done through further iterations and work on the IDP as a live document and will ultimately be determined through the development management process when determining a future planning application.
EEH-CS6	Community and Sport Facilities: Indoor Sports	Sports Hall Contributions: 0.03 courts	Desirable	Developer and VoWH	On-site S106 Off-site CIL	£21,150	Cost has been determined using Sport England's Facility Costs (June 2017). Further work is needed to determine the specific provision required on-site and where on site provision is not deemed appropriate, the level of any contributions which may be sought. This will be done through further iterations and work on the IDP as a live document and will ultimately be determined through the development management process when determining a future planning application.
EEH-CS7		Swimming Pools contributions: 1.36 sqm water space	Desirable			£4,573	Cost has been determined using Sport England's Facility Costs (June 2017). Further work is needed to determine the specific provision required on-site and where on site provision is not deemed appropriate, the level of any contributions which may be sought. This will be done through further

Ref	Infrastructure Type	Scheme	Essential or Desirable	Delivery Partners	Delivery Mechanism	Indicative Cost	Notes
							iterations and work on the IDP as a live document and will ultimately be determined through the development management process when determining a future planning application.
EEH-CS8		Health and Fitness contributions: 0.7 stations	Desirable			£19,040	Cost has been determined using Sport England's Facility Costs (June 2017). Further work is needed to determine the specific provision required on-site and where on site provision is not deemed appropriate, the level of any contributions which may be sought. This will be done through further iterations and work on the IDP as a live document and will ultimately be determined through the development management process when determining a future planning application.
EEH-CS9		Bowling Green contributions: 0.01 rinks	Desirable			£3,542	Cost has been determined using Sport England's Facility Costs (June 2017). Further work is needed to determine the specific provision required on-site and where on site provision is not deemed appropriate, the level of any contributions which may be sought. This will be done through further iterations and work on the IDP as a live document and will ultimately be determined through the development management process when determining a future planning application.
EEH-CS10		Squash: 0.01 courts	Desirable			TBC	Further work is needed to determine the specific provision required on-site and where on site provision is not deemed appropriate, the level of any contributions which may be sought. This will be done through further iterations and work on the IDP as a live document and will ultimately be determined through the development management process when determining a future planning application.
EEH-GI1	Green Infrastructure	Designated Equipped Playing Space: 0.03 ha	Desirable	Developer and VoWH	On-site S106	TBC	Further work is needed to determine the specific provision required on-site and where on site

Ref	Infrastructure Type	Scheme	Essential or Desirable	Delivery Partners	Delivery Mechanism	Indicative Cost	Notes
	and Open Space: Open Space, Allotments and Children's Play				Off-site CIL		provision is not deemed appropriate, the level of any contributions which may be sought. This will be done through further iterations and work on the IDP as a live document and will ultimately be determined through the development management process when determining a future planning application.
EEH-GI2		Youth/MUGA: 0.04 ha	Desirable			£74,169	Further work is needed to determine the specific provision required on-site and where on site provision is not deemed appropriate, the level of any contributions which may be sought. This will be done through further iterations and work on the IDP as a live document and will ultimately be determined through the development management process when determining a future planning application.
EEH-GI3		15% of residential area as Public Open Space: 0.36 ha	Desirable			£17,943	Cost has been determined using Spon's Architects' and Builders' Price Book (2017). Further work is needed to determine the specific provision required on-site and where on site provision is not deemed appropriate, the level of any contributions which may be sought. This will be done through further iterations and work on the IDP as a live document and will ultimately be determined through the development management process when determining a future planning application.
EEH-GI4		Allotment Provision: 0.05 ha	Desirable			£1,142	Cost has been determined using Spon's Architects' and Builders' Price Book (2017). Further work is needed to determine the specific provision required on-site and where on site provision is not deemed appropriate, the level of any contributions which may be sought. This will be done through further iterations and work on the IDP as a live document and will ultimately be determined through the

Ref	Infrastructure Type	Scheme	Essential or Desirable	Delivery Partners	Delivery Mechanism	Indicative Cost	Notes
							development management process when determining a future planning application.
EEH-U1	Electricity	Local reinforcement of electricity network	Essential	Developer / Scottish & Southern Electricity Networks	Developer agreement with statutory undertaker	TBC	Further work is needed to determine the specific provision required. This will be done through more detailed discussion with the statutory provider during the development management process when determining a future planning application
EEH-U2	Gas	Local reinforcement of gas network	Essential	Developer / SGN	Developer agreement with statutory undertaker	TBC	Further work is needed to determine the specific provision required. This will be done through more detailed discussion with the statutory provider during the development management process when determining a future planning application
EEH-U3	Water Supply	Localised reinforcement of water supply, waste water, sewer and drainage networks as required.	Essential	Developer and Thames Water	Developer agreement with statutory undertaker	TBC	Further work is needed to determine the specific provision required. This will be done through more detailed discussion with the statutory provider during the development management process when determining a future planning application
EEH-U4	Sewage Treatment Works	Enhancement of capacity at sewage treatment works	Essential	Developer and Thames Water	Developer agreement with statutory undertaker	£25,000	Further work is needed to determine the specific provision required. This will be done through more detailed discussion with the statutory provider during the development management process when determining a future planning application
EEH-FRD1	Surface Water Drainage	Sustainable Drainage System (SuDS)	Essential	Developer / OCC	S106	TBC	Further work is needed to determine the specific provision required. This will be done through more detailed discussion with the statutory provider during the development management process when determining a future planning application

12 Funding and Delivery

12.1 Funding

The funding for the delivery of the infrastructure requirements will be secured through a combination of sources. These include: direct provision by the developer, provision on-site secured through Section 106 agreements, contributions made to the relevant statutory undertakers and secured by either Section 106 or Section 278 Agreements, or through the use of the CIL money collected by the Council. Other sub-regional and national funding sources may also be available throughout the LPP2 plan period.

Each of the seven sites identified as part of LPP2 will be subject to CIL, and will generate a CIL receipt for the Council. Based upon the Council's Charging Schedule, each of the seven sites will be subject to a £120 per square metre levy charge as they are located in 'Zone 1' as defined by the Charging Schedule.

A summary of the potential CIL receipts that may be generated by each of the seven sites is set out in Table 12.1 below. The values set out are indicative, and are based upon an assumption of an average dwelling size of 87 square metres. The true CIL values will be determined once planning applications are received, and final dwelling numbers and size of units has been confirmed.

Table 12.1: Indicative Estimate of CIL Receipts

Site	Number of Dwellings	Market Housing (65%)	Indicative CIL Receipt
Harwell Campus	1,000	650	£6,786,000.00
North West Grove	400*	195	£2,035,800.00
Dalton Barracks	1,200*	780	£8,143,200.00
East Kingston Bagpuize	600	390	£4,071,600.00
South East Marcham	90	78	£814,320.00
North East of East Hanney	80	52	£542,880.00
East of East Hanney	50	33	£339,300.00
INDICATIVE TOTAL			£22,733,100.00

The CIL receipts gained from each of the seven sites will not be realised all at once, or all at the start of the planned developments. The levy charges are likely to be paid in instalments over time, linked to the progress made on each site.

CIL receipts collected by the Council need to be shared with the relevant town or parish council(s) where the development site is located. Depending on the town or parish councils' progress in drafting and adopting a Neighbourhood Plan, the level of the CIL receipt passed on is either 15% or 25%. All town / parish councils will be entitled to 15% regardless of their progress on preparing a Neighbourhood Plan. However, those with a Neighbourhood Plan that has been 'made' (i.e. adopted) and is therefore part of the 'development plan' before planning permission first permits development will be entitled to 25%.

For the seven sites in the LPP2, the following parish councils are of relevance:

Table 12.2: List of LPP2 and Parish Councils

Site	Parish Council(s)	Current Status in terms of 15% of 25% of CIL receipt
Harwell Campus	East Hendred Parish Council and Harwell Parish Council.	15%
North West Grove	Grove Parish Council	15%
Dalton Barracks	St Helen Without Parish Council	15%
East Kingston Bagpuize	Fyfield and Tubney Parish Council	15%
South East Marcham	Marcham Parish Council	15%
North East of East Hanney	East Hanney Parish Council	15%
East of East Hanney	East Hanney Parish Council	15%

The Council is a member of the Oxfordshire Local Enterprise Partnership (LEP) and there will be opportunities to secure funding through future Growth Deals secured with Government. The use of LEP funds is likely to be more applicable for strategic, or district-wide, infrastructure schemes; but if secured these will benefit the district as a whole, and may well provide benefits to individual sites.

The Department for Communities and Local Government, often working in partnership with the Homes and Communities Agency, is also a potential source of funding to help deliver sites and unlock growth. The Housing Infrastructure Fund, and the Accelerated Construction programme represent central funding pots that can be accessed by Councils to either speed up the delivery of housing sites, and / or, help to unlock sites by investing in infrastructure delivery.

Throughout the LPP2 plan period sources and levels of funding will vary and could relate to different infrastructure topics as priorities evolve. It is important therefore that the IDP is reviewed regularly, with local infrastructure priorities refined and timescales updated to ensure that the infrastructure requirements remain up-to-date and the Council is prepared to access funding sources throughout the implementation of the LPP2.

When considering any review of the IDP, the Council will be mindful of the inter-relationship with the Developer Contributions SPD, the CIL Charging Schedule, and the Regulation 123 List. As above, the infrastructure priorities across the district may evolve over time, and the policy and implementation framework established by the Council will need to react accordingly to ensure that securing funds for infrastructure is correctly balanced against the objective to deliver planned growth.

12.2 Delivery

The site summaries identify infrastructure items where the Council's evidence base for the LPP2 results in an infrastructure 'need' being generated – for example, on items linked to: Outdoor Sport and Recreation; Indoor Sports; and Open Space, Allotments and Children's Play.

There are circumstances where the infrastructure 'need' identified does not result in a whole facility or infrastructure item being generated. It will be for the Council, in conjunction with statutory agencies (where relevant), and the developer to confirm how best to address this need, and whether a Section 106 agreement associated with each site should provide a developer contribution towards meeting this need (subject to the criteria set out within Regulation 122); or whether the need can be addressed in an alternative manner, through the use of CIL receipts, or by an alternative delivery mechanism.

Appendix A

List of Documents - Baseline Evidence

A1 List of Documents - Baseline Evidence

A1.1 Transport

- Connecting Oxfordshire: Local Transport Plan 2015 – 2031 (Updated 2016):
 - Volume 1: Policy & Overall Strategy
 - Volume 7b: A420 Route Strategy
 - Volume 8: Part ii – Banbury, Bicester, Carterton, Science Vale & Science Vale Cycle Strategy and Witney Area Strategies.
- Vale of White Horse District Council Local Plan Part 2; Evaluation of Transport Impacts – Part 1 (March 2017).
- Oxfordshire County Council – Preferred Options Consultation (May 2017).
- Network Rail – Preferred Options Consultation (May 2017).
- Highways England – Preferred Options Consultation (May 2017).
- Oxford Bus Company / Thames Travel – Preferred Options Consultation (April 2017).
- Draft Oxfordshire Infrastructure Strategy (OxIS) – Growth and Infrastructure Analysis 2017).

A1.2 Education

- Oxfordshire County Council – Pupil Place Plan (2016 – 2020) (November 2016).
- Oxfordshire County Council – Preferred Options Consultation (May 2017).

A1.3 Health and social care

- Oxfordshire Clinical Commissioning Group – Preferred Options Consultation (April 2017).
- Oxfordshire Clinical Commissioning Group – Board Paper – Managing Population Growth (September 2017)
- Oxfordshire County Council – Preferred Options Consultation (May 2017).

A1.4 Emergency services

- No formal consultation responses from:
 - Oxfordshire Fire and Rescue Service;
 - Thames Valley Police; or
 - South Central Ambulance Service NHS Foundation Trust.

- Oxfordshire County Council – Preferred Options Consultation (May 2017).

A1.5 Community and Sports Facilities: Outdoor Sport and Recreation / Community Facilities / Indoor Sports

- Oxfordshire County Council – Preferred Options Consultation (May 2017).

A1.6 Green Infrastructure and Open Space: Open Space, Allotments and Children’s Play

- Oxfordshire County Council – Preferred Options Consultation (May 2017).

A1.7 Utilities

- Scottish and Southern Electricity Networks – Central Southern England Long Term Development Statement (2016/2017).
- SGN (Gas) – Long Term Development Statement (October 2016).
- Oxfordshire County Council – Preferred Options Consultation (May 2017).

A1.8 Flood Risk

- Thames Water (w, Savills) – Preferred Options Consultation (2017).
- Oxfordshire County Council – Preferred Options Consultation (May 2017).