

510121.000 EGLEY ROAD, WOKING SUSTAINABILITY STRATEGY REPORT NOVEMBER 2019



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1 EXECUTIVE SUMMARY

Elementa Consulting was commissioned to put forward a sustainability strategy for the development of Egley Road in Woking Borough Council.

The purpose of this report is to establish different measures to achieve a truly sustainable development through a holistic and eco-systemic approach, towards a regenerative development.

Six key goals have been addressed for this development, which form the basis of the sustainability strategy, this follows the Applicants' Climate Neutral Development Checklist provided by Woking Borough Council:

Location and Transport

- Excellent pedestrian and cycling networks provided to Woking Town Centre
- Travel plan and transportation strategy developed for the wider site

Layout and Design

• Dwellings designed for daylight, views and in line with Woking's Sustainable Design practices

Energy and Carbon reduction

 Air Source Heat Pump's together with energy efficiency measures deliver an overall carbon emission reduction of 39.8% carbon savings over Building Regulations minimum requirement

Water and Drainage

- High water efficiency systems provided
- Integrated SUDs strategy provided

Waste and Materials

- Waste Management Plan provided
- Healthy materials to be used throughout the development promoting health and wellbeing

Green infrastructure and Ecology

 Healthy streets approach proposed, with green infrastructure integrated throughout the wider development



2 PROJECT CONTEXT AND DESCRIPTION

Elementa Consulting has been instructed to prepare a Sustainability Strategy report for a mixed-use development, comprising 36-dwellings and a David Lloyd Club providing state-of-the-art health and leisure facilities.

The Application Site is located approximately 1.5km south of Woking Town Centre, under the remit of Woking Borough Council.

Site and surroundings

The site is to the south of Woking town centre. It is bound by Hook Hill Lane to the South and Egley Road to the East. There is a large cluster of existing woodland to the south screening both the existing residences and the David Lloyd sports and Health club. The Hoe Valley School and Wyevale Garden Centre is within walking distance of the development.

The site can be accessed by foot and vehicles. Vehicular access to the site will be from Egley Road. There is a direct access to the centre of Woking where several taller buildings can be seen along the skyline.



Figure 1: Proposed Site Plan issued by Leach Rhodes Walker Architects



Proposed development

The proposal consists of 4 main types of accommodation: 2, 3, 4 and 5 bed townhouses. These combined create 7 different blocks creating a varied village character. The residential site area is 9,161 sqm with a Gross Internal Area of 5,670 sqm. The leisure site which is not part of this energy strategy is 22,303 sqm with a Gross Internal Area of 5,188 sqm.

Base level units provide family housing, with their own front entrances from the new streets. The project has been designed to take full account of the needs of disabled users in relation to the following statutory regulations: Building Regulations Part M, British Standard 8300 and The Disability Discrimination Act.

At ground floor level, there are individual parking spaces for each dwelling. There is also additional cycle storage for resident's use provided to Woking Borough Council (WBC) standards. Additional parking is provided for the users of the David Lloyd sports centre.



3 PLANNING CONTEXT

In preparing this Sustainability summary, a number of policy documents have been used to guide and inform the sustainability aspirations for the proposed development. The aim of this summary document is to clearly identify how the development has placed sustainability at its heart, reflecting the requirements of key planning documentation. The principles of sustainability have been integrated within the design, through applying a set of high-level set of sustainability criteria.

Relevant planning policy has been reviewed and identified that impact on the sustainability of the Egley Road, Woking development.

3.1 NATIONAL PLANNING POLICY



National Planning Policy Framework (2019)
The NPPF sets out the Government's planning policies for England and how they should be applied. This document outlines the Government's vision of sustainable development to be interpreted and implemented locally - reflecting the local context.

At the heart of the NPPF is a presumption in favour of Sustainable Development – requiring the three common threads of sustainability to be met: environmental, social and economic.

3.2 RELEVANT LOCAL PLANNING POLICY AND GUIDANCE



Woking Local Development Document, Core Strategy (2012)

The Development Document provides the planning policies needed to achieve Woking Borough Council's vision as set out in the Core Strategy, and how to get the best from future development – covering the period up to 2027, setting out that through its implementation the needs of future generations will not be compromised.

The 25 policies set out are interrelated and should be read together with the Core Strategy to understand their combined effect upon individual developments.



Woking Local Development Document, Development Management Policies

The DPD document seeks to deliver policies identified in the Core Strategy covering the same period as the Core Strategy up to 2027 and looks to the whole of the borough.





Woking Borough Council, Climate Change Supplement Planning Document The Climate Change SPD provides guidance for the application of Policy CS22 Sustainable Construction and CS23 Renewable and low carbon energy generation of the Core Strategy.

In further support Policy CS22 a Carbon Neutral Development Checklist will also be completed and provided within the appendix of this report.



4 LOCATION AND TRANSPORTATION

POLICY CS9: Flooding and Water Management POLICY CS18: Transport and Accessibility

4.1 TRANSPORTATION PLAN

This development is well connected to the town centre, being accessed by foot as well as by cycling. This is in line with Policy CS18 that encourages any developments to create a well-integrated community connected by a sustainable transport system that connects people to jobs, services and community facilities, and minimise impacts on environment.

The aim is to promote low carbon and fossil fuel free means of transportation by promoting walking and cycling within the site. This assists in reducing potential production of CO2, particulate matter (PM10) and Nitrogen Oxides (NO_x). This also meets the requirements lined out in the Surrey Transport Plan

See the Travel Plan Document provided in support of this submission for further information.

4.1.1 Pedestrian Strategy

The development is not car-free, however, there are many alternative sustainable transportation and movement options, to encourage an active lifestyle and reduce any negative environmental impacts. Being located only 1.5 km away from the town centre, the development site is inherently provided with excellent pedestrian access. It is within proximity to Woking Train station - a central hub to the city.

Existing pedestrian footpaths provide excellent connection to local shops and amenities, together with local green spaces and parks - Sutton Green Golf Course, Woking Golf Course and West Hill Gold Course are all within short distances of the site.

Public pedestrian access to the site is provided on Egley Road.

4.1.2 Cycling Strategy

The site is surrounded by a number of cycle routes converging on the site from all directions. 2 cycle spaces for each dwelling unit will be provided to support and encourage cycling as means of transportation. The Leisure site will be provided with 20 cycle spaces near the entry to the club. This is in line with Policy CS18 that specifies Woking as a Cycle Town.

4.1.3 Parking Strategy

The proposal provides sufficient parking spaces for the users of the mixed-use development. Car parking spaces are provided for each individual townhouse, in line with the requirements of Woking Borough Council design standards. Additional parking - 271-parking spaces - is provided to support the David Lloyd Centre in line with Woking Borough Council parking standards.

Electrical vehicle charging points, and supporting infrastructure, is to be provided as part of the final design, meeting the demands of the growing availability of electrical vehicles - forming part of our transition to a zero-carbon future. While individual electrical vehicle charging points will not be provided at each townhouse, there will be the ability to adapt in the future.



4.2 FLOODING

4.2.1 Flood Risk

A Flood Risk Assessment has been carried out as part of the design process and has been used to inform the additional measure that will further reduce the potential risk of flooding from surface water runoff and maintaining a greenfield run off rate. However, the assessment demonstrated that the development will be safe and it would not increase the flood risk elsewhere.

The site is identified as being in Flood Zone 1, therefore there is a low probability of flooding from rivers and the sea – and annual probability of flooding below 0.1%. Therefore, the proposed development has an acceptable flood risk within the requirements of the NPPF and Policy CS9 from the Woking Core Strategy.

There is an area of medium to high surface water flood risk in the south-western part of the site, however this is limited in size and does not form part of surface water flow path. Also, the area has been subject to sewer flooding 6 times in the past ten year and it is considered to have a low risk of sewer flooding.

Surface water runoff has been considered as part of the development, with permeable paving and geocellular storage and reducing the rate at which rainwater run-off from the site will enter the wider surface water infrastructure, therefore reducing the potential for localised flooding during an intense rainfall

Full details of the Flood Risk and Surface Water Management strategies can be referenced in the Flood risk assessment and drainage strategy provided.



Figure 2: Flood Risk Map, Environment Agency (https://flood-map-for-planning.service.gov.uk/confirmlocation? easting = 499798 & northing = 157646 & place Or Postcode = gu2)



5 LAYOUT AND DESIGN

POLICY CS17: Open space, green infrastructure, sport and recreation

POLICY CS21: Design

POLICY CS22: Sustainable construction

Policy CS22 states that all new developments are required to take account of layout, landform, orientation and landscaping to maximise efficient use of energy and adapt to impacts of climate change.

The layout of the development has ensured that, where possible, levels of sunlight are maximised to amenity areas through the year, while balancing this with the potential for overheating during warmer periods and allowing sufficient solar gain during winter – the fenestration design looks to strike this balance.

5.1 PROJECT DESIGN

5.1.1 Community Wellbeing

Designing a truly sustainable development means putting humans at the centre of the design delivering a healthy response for the short and long-term. To achieve this, access to biophilia, healthy streets and buildings and green infrastructure are to be prioritised. The proposed building design and construction aims to minimise detrimental impacts on an occupant's health from indoor pollutants emitted from the building.

The Core Strategy identifies the need for a sustainable community for Woking and improve upon the well-being of its people – it is this philosophy that has been applied to the Egley Road development. The wider Woking development promotes the idea of this balance with having leisure spaces and sports-designated areas, surrounding the residential and commercial spaces. Open space, green infrastructure, sport and recreation has been considered into the overall scheme as it is outlined in Policy CS17 as being essential to the community.

Providing a development that places the health and wellbeing of home owners and visitors is key to the success of the whole of the development. The wellbeing of building occupants will be prioritised through the provision of high-quality design, healthy and appropriate environments. Delivering a vibrant, successful neighbourhood, with the health benefits of providing contact to nature and comfortable internal spaces taken fully into consideration in continued design development of this project.

Policy CS21 outlines that all projects must be designed in an inclusive way to be accessible to all members of the community. The project has been designed closely with the Building Regulations: Part M to ensure all viable areas of the dwellings and masterplan are accessible to all regardless of disability.

5.2 DWELLING DESIGN

5.2.1 Wellbeing

The buildings for the proposed development are to be designed to fully benefit from daylight and views. Room proportions, internal layouts, and fenestration location are driven by the desire for comfortable internal spaces. Environmental analysis has been used by the design team to inform the design of homes and internal spaces.

The requirements for daylight from fenestration, the design team have been conscious to balance these needs with that of avoiding overheating risk - today and in the future. Design evolution of the façade



design will continue to evolve during next work stages, continuing to look for opportunities to provide passive design responses to the development.

Natural ventilation will be implemented throughout the development, providing mixed-mode systems with MVHR, and suitable building openings used to drive natural ventilation, when the climate allows.

5.2.2 Indoor Air Quality

In the residential dwellings air will be brought into the space through a mechanical ventilation heat recovery (MVHR) unit, with these units prefiltering incoming outside air - which will receive regular cleaning and maintenance, including regular filter inspection. Dedicated exhaust systems for kitchens and bathrooms will be provided. This air exchange system allows the building to be well ventilated all year-round improving occupant's health and comfort.

Further to this, the applicant will seek to avoid the use of materials that are believed to, or have been proven to, pose a hazard to the environment or health of humans where they are installed, produced or where their raw material is extracted. The design will prioritise the specification of low VOC, formaldehyde and phthalate materials, both in terms of cleaning products and products used for the internal finishes, minimising potential sources of internal air pollution where possible.



6 ENERGY AND CARBON REDUCTION

POLICY CS22: Sustainable Construction

POLICY CS23: Renewable and low carbon energy generation

The following strategies concerning energy, transport and whole life cycle carbon detailed in this section are aimed at reducing the carbon emissions to meet climate change targets and meeting the requirements of Policy CS23.

6.1 ENERGY STRATEGY

Woking Borough Council has set out its aspiration for its future in the Woking 2050 Strategy, which looks at the whole way of living and the influence that this has on the environment. A central thread of this strategy is to take a strong lead on tackling climate change.

The objective in the development of the Energy Strategy for Egley Road has been to maximise the viable reductions in total carbon emissions. In meeting this challenge, the proposed strategy will utilise the following energy hierarchy LEAN - CLEAN - GREEN, allowing consideration of the building from its construction elements through to the application of renewable technologies.

Following the energy hierarchy, the environmental and servicing design strategy for the development first aims to minimise the energy demands through passive design opportunities, while considering the buildings form, mass and fabric.

Significant consideration has been given to how the building fabric will respond to its environment that the energy consumption of the building is reduced as far as possible through passive means and energy efficient active systems.

The proposed building fabric is designed to meet or exceed the minimum fabric requirements of Building Regulations Part L (2013), where possible and feasible. A number of actions (such as Air pressure testing, reducing air infiltration rates, reducing u-values further, minimise thermal bridging through enhanced details...) have been suggested to be implemented at the next stage of design to further improve the fabric performance if required and feasible.

The project is designed for natural ventilation, when the climate allows, with mechanical ventilation with heat recovery (MVHR) systems providing ventilation when Natural Ventilation is not appropriate. The combination provides a good balance of high-efficiency ventilation strategies throughout the department.

6.1.2 Be Clean

How buildings are served with energy should then be considered, for example whether the application of a mini-district energy network would provide carbon savings.

A feasibility study was undertaken to identify if a centralised energy network is suitable for the development. In line with similar studies carried out as part of the Outline Panning submission, it was identified that centralised systems would not be appropriate for the development.

The integration of Combined Heat and Power (CHP) was considered however, traditional heat led energy networks - such as Combined Heat and Power - are coming under scrutiny in terms of their long-term carbon reduction potential. As they are gas fired, they rely on the burning of gas to generate heat and power.

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The energy strategy for the Egley Road development, provides separate strategies for the residential buildings and the David Lloyd Centre.

6.1.3 Be Green

Finally, the benefits of low and zero carbon systems are considered. A range of low and zero carbon technologies were appraised as potential onsite energy generation sources. The most suitable for the development were identified as Air Source Heat Pumps (ASHP). Policy CS23 emphasise the use of using renewable technologies in all current and future projects.

6.2 PROPOSED STRATEGY

The Energy Statement submitted in support of this application explains that overall carbon emissions will be reduced through the use of a high performing fabric with low U-Values and good air permeability as well as selecting efficient systems such as Air Source Heat Pumps (11kW and 14kW) have been selected for each dwelling.

During the next stages of the design evolution, further improvements to the residential systems will be investigated to provide further carbon emissions reductions.

	Regulated Carbon dioxide savings			
Site-wide	(Tonnes CO2 per annum)	(%) improvement		
Saving through passive design and energy efficient measures	-0.3	-0.4%		
Savings through use of district heating schemes or CHP	0.00	0%		
Savings through use of renewable energy technology and				
decentralise heat	30.0	40.0%		
Total cumulative savings	29.7	39.8%		

See the Energy Strategy report issued by Elementa in support of this submission for further information.

6.3 FLEXIBILITY AND ADAPTABILITY

A future proofed development will meet the challenges of climate change, including flood resilience, thermal comfort and water and energy management or changing to the need of the residents. Computation environmental analysis were used to model the potential risk for future climatic scenarios. Through rational glazing areas and natural ventilation strategies homes will reduce potential risk.

6.4 SUSTINABLE CONSTRUCTION

The construction process will be approached in a sustainable and proactive way, reducing potential construction impacts on neighbours and surrounding infrastructure. The project will sign up to the Considerate Constructors Scheme as part of the construction process, allowing the appointed contractor to take the management of the construction site beyond 'best practice'.

A comprehensive Construction Management Plan (CMP) has been developed to put in place strategies to mitigate effects during the construction process.

The development will look to utilise local works in the construction process – provide local economic support.

There are opportunities to seek improvements across the supply chain and support further innovation to the approach to building design, specification, construction, and ongoing operations – these opportunities will be fully explored.



7 WATER AND DRAINAGE

POLICY CS9: Flooding and water management

The design team recognises that water should be treated as a precious resource. Therefore, careful consideration has been given to opportunities for conservation through water efficiency measures, while identifying how water can be reused and the risks from flooding managed – including the application of Sustainable Urban Drainage Systems (SUDs) to reduce surface water runoff. Policy CS9 outlines that developments should incorporate appropriate SUDs as part of any development proposals.

7.1 WATER EFFICIENCY STRATEGY

Water consumption in the UK has risen over recent years, which represents a strain on both natural resources and water treatment facilities. Water use can be minimised through the implementation of a number of different strategies.

Dwellings

The design prioritises the reduction of water consumption through efficient fittings, sanitary ware, and appliances, using significantly less water than standard.

The water strategy proposed for the scheme will look to incorporate flexibility in the specification of water fixtures and fittings, allowing for the inclusion of different solutions that will offer:

- Occupant satisfaction
- Require performance
- Feasible and viable costs

In line with Woking Borough Council's Housing Standard, the residential dwellings planned will meet the water consumption requirements targets - <110litres/ per/ day.

David Lloyd Centre

Water consumption is equally important within the David Lloyd centre, through the requirements of the BREEAM process, water consumption will be closely controlled and monitored. Innovative water saving measures are to be invested as part of the swimming pool design.

The following consumption levels will be considered to reduce consumption at the Proposed David Lloyd building:

- All WCs to have a dual flush cistern with an effective flush volume of 4.5 litres or less with appropriate guidance or symbols to instruct the user on the operation,
- Bathroom taps flow rate: 4-6 litres/min
- Showers flow rate: 9-12 litres/min.
- Water efficient dishwashers and washing machines

Consideration will be given to installing a water meter on the mains water supply to the David Lloyd centre a pulsed output to enable connection to a 'Building Management System' (BMS) for the monitoring of water consumption. A mains water leak detection system will be installed, where feasible, to reduce the volume of potable water which may be lost due to leaking sub-surface pipework.

7.2 SUSTAINABLE URBAN DRAINAGE

The proposed development will result in much of the site being covered by new buildings or car parking, this limits the SUDs opportunities that the site could employ to reduce the sites runoff rate.

A number of SUD strategies are proposed such as impermeable paving within the car park and streetscape areas, landscaped infiltration areas, geo-cellular storage. Brown and green roofs will be



integrated, where viable, for the David Lloyd centre. These features will not only delay rainwater runoff from the site but also provides additional biodiversity, and water quality improvements prior to reaching surface water infrastructure.

Full details of the surface water management strategy and sustainable urban drainage strategies are listed within the *Floor Risk Assessment* provided in support of this submission.

8 WASTE AND MATERIALS

POLICY CS22: Sustainable Construction

8.1 CONSTRUCTION AND OPERATION

Policy CS22 states that all new developments should facilitate the reduction of waste and the recycling and composting of the waste produced. Consideration of the management and waste minimisation will be made a priority. Waste disposal through landfill or incineration have detrimental impact on the environment and so will be avoided wherever possible.

Construction waste is to be managed in an environmentally sensitive manner, with materials being reused, where possible, or made available for recycling, or reuse in other development schemes in line with Policy CS22.

A Site Waste Management Plan (SWWP) will be developed prior to construction, outlining waste management plans for excavation and construction onsite. Opportunities to retain and reuse material generated by site enabling works will be explored and exploited where viable.

The development will be provided with recycling facilities that will allow for source separation within dwellings and non-residential buildings. Centralised storage facilities will be in a convenient location. The number of refuse bins provision has been calculated using standard guidance. The capacity of the external refuse stores is based on the provision of 3x240 litres bins per unit. This can be subdivided to take account of recycling as described in the Waste and recycling provision for new residential developments produced by Woking Borough Council.

8.2 MATERIALS

The selection of sustainable materials with a low environmental impact and their sustainable procurement are to be a key parameter in the specification of materials, together with their end-of-life disposal.

Specification of materials will look to protecting local and global ecosystems and human health, by avoiding the use of harmful building materials and processes.

The development has the potential to generate considerable amounts of waste material, both during the construction phase and over the course of its lifetime. Making recycling and waste management as an important element of a well-designed and functional development.

Preference is to be given to the selection and specification of sustainable materials with a low environmental impact over the course of their lifetime. Consideration will be given to materials specified, with the BRE's Green Guide to Specification and Environmental Product Declaration (EPDs) as methods available to guide this process.



Timber used will be FSC specified where possible and viable, allowing for sustainable sourced materials, with a suitable chain of custody. Healthy materials will be utilised, reducing potential detrimental impact on human health. The design will prioritise the specification of low VOC materials, minimising potential sources of internal air pollution.

Materials are to be locally sourced, and from recycled sources where viable and in line with the proposed design intent. Full consideration of the sites environmental context when specifying external materials will be given, providing long-lasting robust landscape. The design team will investigate various constructability techniques, including pre-fabrication and end-of-life disassembly.

9 GREEN INFRASTRUCTURE AND ECOLOGY

POLICY CS1: A spatial strategy for Woking Borough POLICY CS7: Biodiversity and nature conservation

Well designed public realm and streets that relate to their surrounding are an important part of a holistic and successful design, with the health and wellbeing benefits of attractive landscape being well known.

The existing context of the natural flora and fauna of the site will be carefully considered and respected, with appropriate mitigation and enhancement measures being provided. This is in line with the spatial vision stated in the WBC Core Strategy that highlights the need for the borough to include good quality green spaces that are easily accessible.

The proposed landscape strategy looks to provide an enhancement to biodiversity and a rich and variable ecological response. Policy CS1 outlines that the development must not adversely impact the Green Belt and existing conservation areas.

9.1 HEALTHY STREETS

A healthy streets approach has been applied for the wider development, delivering comfortable and welcoming spaces, providing clear placemaking, and wayfinding for all users.

The streets will also provide complimentary SUDs benefits will be realised through landscape design. Rain gardens form part of the street strategy, with tree lined streets allowing rainfall to be captured and infiltrate into the ground.

Private garden design to enhance biodiversity and ecological value of the site as a whole. Gardens integrated with water butts and rain gardens collecting rainwater at source for reuse.

9.2 NATURE CONSERVATION

Policy CS7 outlines that the council is committed to conserving and protecting existing biodiversity assets within the Borough. As part of meeting these requirements the development proposals to contribute to the enhancement of existing biodiversity through planting species selection, including the encouragement of pollinators, with fauna enhancements also proposed, bat and bird boxes, and hotel hotels distributed throughout the development.

The Egley Road development has not been considered in isolation, the proposed green infrastructure strategy run through and connects Egley Road development to its wider context.



A preliminary Ecology Appraisal has been carried out including habitat survey, protected species assessment and ecological evaluation of the site. The assessment found that the woodland present on site is considered to be of local value and should be retained, other habitats are considered to be of site value and they are unlikely supporting any rare species. A number of actions and further assessments will be required to identify, protect and enhance biodiversity on site (e.g. Great crested newt, bats, reptiles, breeding birds). Invasive species were recorded within the woodland habitats and a precautionary approach is recommended to ensure there is no risk of spreading invasive species. Recommendations to enhance the biodiversity value of the site include SuDS strategies, wildlife planting, flowering lawn mix, nesting features for birds, roosting features for bats and additional deadwood habitats.

Full details of the Ecological appraisal and related strategies can be referenced in the *Preliminary Ecological Appraisal*.

An Arboricultural Impact assessment has been carried out. The assessment found that all 32 existing trees on site are subject to Tree Preservation Order. Any work to trees will consider the presence of valuable species and the Ecological Appraisal will be consulted prior to the commencement of works.

Full details of tree retention is provided within the Arboricultural Impact Assessment (AIA).

The proposed development includes tree planting, shrub planting, private gardens, grassed areas. Further details of the proposed landscaping strategy are included within the *Design and Access Statement*.

This section sets out the landscape strategy for the proposed development of the site and seeks to illustrate how the design proposals will achieve well-designed external areas.

The overall objective of the Landscape Strategy is to create a high-quality environment that provides for the residential and leisure uses of the Site. The design of the external areas will utilize a simple and complimentary hard and soft patient to create an attractive place to the vertice.

The Site also include an large area existing woodland and mature trees that will be retained wherever possible. For details of tree works, refer to arboriculturists information.

Legand

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3. Man access to Site

4. Residential road with tree hodge and shoulp planting to froot gardens, applier nout, but colour termine properties and biods pumps to arrives.

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Figure 3: Proposed Landscape strategy from Design and Access Statement

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Commented [AS2]: Please explain what does this mean? Are we saying we should not let habitats spread to the site?!



10 APPENDIX

10.1 APPENDIX A- WOKING BOROUGH COUNCIL CORE STRATEGY (2012)

POLICY CS1: A SPATIAL STRATEGY FOR WOKING BOROUGH

The Core Strategy will make provision for the delivery of the following scale of uses between 2010 and 2027.

- 4,964 net additional dwellings, with an overall affordable housing provision target of 35%
- 28,000 sq.m of additional office floorspace and 20,000 sq.m of warehousing floorspace.
- 93,900 sq.m of additional retail floorspace.

Woking Town Centre will be the primary focus of sustainable growth to maintain its status as an economic hub with a flourishing, diverse and innovative economy and a transport hub which provides transport services, links and communication linking people to jobs, services and facilities.

POLICY CS7: BIODIVERSITY AND NATURE CONSERVATION

The Council is committed to conserving and protecting existing biodiversity assets within the Borough. It will require development proposals to contribute to the enhancement of existing biodiversity and geodiversity features and also explore opportunities to create and manage new ones where it is appropriate.

The Council will encourage new development to make positive contribution to biodiversity through the creation of green spaces, where appropriate, and the creation of linkages between sites to create a local and regional biodiversity network of wildlife corridors and green infrastructure. It will seek to retain and encourage the enhancement of significant features of nature conservation value on development sites.

POLICY CS9: FLOODING AND WATER MANAGEMENT

The Council will determine planning applications in accordance with the guidance contained within the NPPF. The SFRA will inform the application of the Sequential and Exceptional Test set out in the NPPF

The Council expects development to be in Flood Zone 1 as defined in the SFRA. Applications or allocations within Flood Zone 2 will only be considered if it can be demonstrated that there are no suitable alternatives in areas at lower risk.

POLICY CS10: HOUSING PROVISION AND DISTRIBUTION

The Council will make provision for at least 4,964 net additional dwellings in the Borough between 2010 and 2027 in accordance with the distribution set out in the table below.

In areas at risk of flooding, proposals (including flood compensation proposals) with implications for biodiversity will be carefully considered for all levels of ecological designation. Where the development proposals, either alone or in combination with other developments, are demonstrated to adversely affect an SPA, SAC or RAMSAR site, permission will not be granted.

POLICY CS11: HOUSING MIX

All residential proposals will be expected to provide a mix of dwelling types and sizes to address the nature of local needs as evidenced in the latest Strategic Housing Market Assessment in order to create sustainable and balanced communities.

The appropriate percentage of different housing types and sizes for each site will depend upon the established character and density of the neighbourhood and the viability of the scheme. The Council will not permit the loss of family homes on sites capable of accommodating a mix of residential units unless there are overriding policy considerations justifying this loss.

POLICY CS11: AFFORDABLE HOUSING

Between 2010 and 2027 the overall target for affordable housing is 35% of all new homes, equivalent to 1,737 new affordable homes.

All new residential development on previously developed (brownfield) land will be expected to contribute towards the provision of affordable housing in accordance with the following criteria.

Commented [AS3]: Add version of the core strategy has been used here...



- On sites providing 15 or more dwellings, or on sites of over 0.5ha (irrespective of the number of dwellings proposed), the Council will require 40% of dwellings to be affordable.
- On sites providing between 10 and 14 new dwellings, the Council will require 30% of dwellings to be affordable.
- On sites providing between five and nine new dwellings, the Council will require 20% of
 dwellings to be affordable or a financial contribution equivalent to the cost to the developer of
 providing 20% of the number of dwellings to be affordable on site, which will be negotiated on
 a case-by-case basis.
- On sites providing fewer than five new dwellings, the Council will require a financial
 contribution equivalent to the cost to the developer of providing 10% of the number of the
 dwellings to be affordable on site.

The affordable housing threshold and targets will apply to all new homes that are being proposed. All new residential development on Greenfield land and land in public ownership will be required to provide 50% of the dwellings as affordable housing, irrespective of the site size or number of dwellings proposed.

POLICY CS15: SUSTAINABLE ECONOMIC DEVELOPMENT

To accommodate the predicted future growth in economic development10 required for Woking's economy to grow, ensure sustainable employment development patterns, promote smart growth and business competitiveness, and allow for flexibility to cater for the changing needs of the economy the Council will:

- permit redevelopment of outmoded employment floorspace to cater for modern business needs
- support small and medium sized enterprise (SME) formation and development by
 encouraging a range of types and sizes of premises including provision for incubator units,
 managed workspace and serviced office accommodation
- encourage improved ICT infrastructure in refurbished and redeveloped sites
- encourage workspace and ICT infrastructure as an integral part of residential development, where appropriate to support home working
- support childcare facilities close to places of employment

POLICY CS17: OPEN SPACE, GREEN INFRASTRUCTURE, SPORT AND RECREATION

All proposals for new residential development (other than replacement dwellings) will be required to contribute towards the provision of open space and green infrastructure, including the following:

- children's play areas and outdoor recreational facilities for young people.
- · outdoor sports facilities.

Developers will be expected to contribute to provision through the Community Infrastructure Levy (CIL) or on larger sites through on-site provision and/or a S106 contribution as appropriate. Development involving the loss of open space will not be permitted unless:

- alternative and equivalent or better provision is made available in the vicinity
- or the development is directly related to the enhancement of the open space.

POLICY CS18: TRANSPORT AND ACCESSIBILITY

The Council is committed to developing a well integrated community connected by a sustainable transport

system which connects people to jobs, services and community facilities, and minimises impacts on biodiversity. This will be achieved by taking the following steps:

- Locating most new development in the main urban areas, served by a range of sustainable transport modes, such as public transport, walking and cycling to minimise the need to travel and distance travelled.
- Ensuring development proposals provide appropriate infrastructure measures to mitigate the
 adverse effects of development traffic and other environmental and safety impacts (direct or
 cumulative). Transport Assessments will be required for development proposals, where
 relevant, to fully assess the impacts of development and identify appropriate mitigation
 measures. Developer contributions13 will be secured to implement transport mitigation
 schemes.



- Requiring development proposals that generate significant traffic or have significant impact on the Strategic Road Network to be accompanied by a travel plan, clearly setting out how the travel needs of occupiers and visitors will be managed in a sustainable manner.
- Supporting proposals that deliver improvements and increased accessibility to cycle, pedestrian and public transport networks and interchange facilities. In particular, proposals to improve easy access between Woking Rail Station and the town centre will be encouraged.
- Implementing maximum car parking standards for all types of non-residential development, including consideration of zero parking in Woking Town Centre, providing it does not create new or exacerbate existing on-street car parking problems. Minimum standards will be set for residential development. However, in applying these standards, the Council will seek to ensure that this will not undermine the overall sustainability objectives of the Core Strategy, including the effects on highway safety. If necessary, the Council will consider managing the demand and supply of parking in order to control congestion and encourage use of sustainable transport.

POLICY CS18: SOCIAL AND COMMUNITY INFRASTRUCTURE

The Council will work with its partners to provide accessible and sustainable social and community infrastructure to support growth in the Borough. It will do so by promoting the use of social and community infrastructure for a range of uses.

The loss of existing social and community facilities or sites will be resisted unless the Council is satisfied that:

- there is no identified need for the facility for its original purpose and that it is not viable for any other social or community use, or
- adequate alternative facilities will be provided in a location with equal (or greater) accessibility for the community it is intended to serve
- there is no requirement from any other public service provider for an alternative social or community facility that could be met through change of use or redevelopment.

Applicants will be expected to provide evidence that they have consulted with an appropriate range of service providers and the community.

The provision of new community facilities will be encouraged in locations well served by public transport, pedestrian and cycle infrastructure.

The Council will work with other public sector bodies to encourage efficient use of public sector assets, such as co-location, to facilitate the delivery of community facilities.

Developers will be required to provide and/or make a contribution towards the provision of community facilities where it is relevant to do so. The methods of securing financial contributions are set out in policy CS16: Infrastructure delivery.

POLICY CS21: DESIGN

Proposals for new development should meet the criteria below:

- Create buildings and places that are attractive with their own distinct identity; they should
 respect and make a positive contribution to the street scene and the character of the area in
 which they are situated, paying due regard to the scale, height, proportions, building lines,
 layout, materials and other characteristics of adjoining buildings and land. Tall Buildings could
 be supported in Woking Town Centre, if well designed and can be justified within the context.
 The impacts of any proposal will be fully assessed and an Area Action Plan will be prepared
 to set out details of how it will be managed.
- Achieve a satisfactory relationship to adjoining properties avoiding significant harmful impact in terms of loss of privacy, daylight or sunlight, or an overbearing effect due to bulk, proximity or outlook
- Be designed in an inclusive way to be accessible to all members of the community, regardless of any disability and to encourage sustainable means of travel.
- Incorporate landscaping to enhance the setting of the development, including the retention of
 any trees of amenity value, and other significant landscape features of merit, and provide for
 suitable boundary treatment/s.
- Protect and where possible enhance biodiversity within new developments (as set out in policy CS7 Biodiversity and Nature Conservation). The Council encourages the incorporation



- of built-in measures in new construction design. Examples of such measures may include green walls, brown roofs and the installation of bird and bat boxes.
- Ensure provision of well designed Suitable Accessible Natural Greenspace, (SANG) where necessary.
- Ensure schemes provide appropriate levels of private and public amenity space.
- Create a safe and secure environment, where the opportunities for crime are minimised.
- Incorporate measures to minimise energy consumption, conserve water resources, use the
 principles of sustainable construction and provide for renewable energy generation in
 accordance with policy CS22 Sustainable Construction and CS23 Renewable and Low
 Carbon Energy Generation.
- Incorporate provision for the storage of waste and recyclable materials and make provision for sustainable drainage systems.
- Ensure the building is adaptable to allow scope for changes to be made to meet the needs of the occupier (life time homes and modern business needs).
- Be designed to avoid significant harm to the environment and general amenity, resulting from noise, dust, vibrations, light or other releases.

POLICY CS22: SUSTAINABLE CONSTRUCTION

New residential development on previously developed land will be required to meet the energy and Carbon Dioxide (CO²) and water components of the Code for Sustainable Homes level 3 (or any future national requirement) from now until 31 March 2013, the energy and CO² and water components of at least Code level 4 from 1 April 2013 and the energy and CO² and water components of Code level 5 from 1 April 2016. New residential development is encouraged to meet the full requirements of each Code level, with particular encouragement for the material and ecology elements. Where the scale, nature and location of a development would justify a higher Code level, the Council will negotiate with developers to achieve that because of the lower cost of developing such sites.

New residential development on greenfield sites will be required to meet the Code for Sustainable Homes level 5 (or any future national requirement) from now because of the relatively lower cost of developing such sites.

All new development should consider the integration of Combined Heat and Power (CHP) or other forms of low carbon district heating in the development. All new development in proximity of an existing or proposed CHP station or district heating network will be required to be connected to it unless it can be demonstrated that a better alternative for reducing carbon emissions from the development can be achieved. Details of the zones where connection will be required will be set out in an SPD and will be determined by factors such as the capacity of the existing CHP network, distance from it and physical constraints.

Where it can be demonstrated that the standards set out in this policy cannot be met on site, permission will only be granted if the applicant makes provision for compensatory energy and CO² and water savings elsewhere in the Borough equivalent to the carbon savings which would have been made by applying this policy.

Electric vehicle charging points

The Council is actively promoting electric vehicle charging points and has already provided a number of these in the Borough. These are of particular value when the electricity source is low carbon. Details of when new development will be expected to provide electric vehicle charging points or when a contribution towards public charging points will be required, will be set out in an SPD.

Design and construction

The design of all new developments will be required to take account of layout, landform, orientation and landscaping to maximise efficient use of energy and adapt to the impacts of climate change. The design of all new developments should facilitate the reduction of waste and the recycling and composting of the waste produced.

All developments should consider the use of sustainable construction techniques that promote the reuse and recycling of building materials. All development is encouraged to use responsible



resourcing of materials and is encouraged to source materials locally. All new residential development is encouraged to meet the 'materials' elements of the Code.

Ecology and biodiversity

All development is encouraged to make biodiversity enhancements such as green roofs and bird and bat boxes. All new residential development is encouraged to meet the 'ecology' elements of the Code.

POLICY CS22: SUSTAINABLE CONSTRUCTION

The Council recognises significant progress needs to be made if national targets for the generation of renewable energy are to be met and encourages the development of stand-alone renewable energy installations in the Borough. All proposals will be considered on their individual merits with regard to scale, location, technology type and cumulative impact on the surrounding area.

The Council particularly encourages applications from community-based and community-owned projects.

Applicants should take appropriate steps to mitigate any adverse impacts of proposed development through careful consideration of location, scale, design and other measures. All reasonable steps to minimise noise impacts should be taken.

Applicants should provide sound evidence of the availability of the resource which will be harnessed or the fuel to be used, including details of the adequacy of transport networks where applicable and detailed studies to assess potential adverse impacts such as noise nuisance, flood risk, shadow flicker and interference with telecommunications.

10.2 APPENDIX B - CLIMATE NEUTRAL DEVELOPMENT CHECKLIST

This checklist is provided by Woking Borough Council to be used in conjunction with the Council's Climate Change Supplementary Planning Document.



Applicants' Climate Neutral Development Checklist
This checklist is to be read in conjunction with the Council's Climate Change
Supplementary Planning Document, which gives detailed guidance on the implementation
of policies CS22 'Sustainable construction', and CS23 'Renewable and low carbon energy
generation' of the Core Strategy.

Application Site Address			
Enter Address			
Cardinal Court, Woking GU22			
1. Location & Transport			
Policies achieve climate neutrality by: lowering greenhouse gas emissions by reducing			
the need to travel and distance travelled; increasing the proportion of travel by sustainable modes such as walking, cycling, public transport and lower carbon vehicles; and reducing			
climate change vulnerability by locating development away from areas liable to flooding.	Yes	No	N/a
Have you considered including measures to reduce dependence on private car-			
borne transport and influence a shift to more sustainable modes of travel?			
Does the proposal provide appropriate levels and standards of parking (including		1	
cycle parking)?			
Will the development incorporate facilities for charging plug-in and other ultra-low			
emission vehicles as appropriate?			
Have you submitted a Travel Statement (for smaller-scale developments) or Travel Plan (for proposals that generate significant traffic) with your proposal?			
Does the location of the proposed development minimise distances to the main			
employment centres, shops, recreation and community facilities and schools?			
Have you ensured the development is located away from an area liable to			
flooding, and is not dependent on transport links (roads, footpaths etc.) liable to			
flooding?			
2. Layout & Design			
Policies achieve climate neutrality by: lowering greenhouse gas emissions by reducing energy demands for heating and cooling; and building in resilience to the impacts of			
climate change such as flooding and heat through good layout and design.	Yes	No	N/a
Does the proposed site layout maximise the potential for passive solar gain?	V		
Have you considered how buildings could be designed to maximise the capture			
and use of passive solar energy?			
Have you considered designing in measures to prevent excess solar gain in			
summer? Have you designed the layout to use landform and landscape to benefit from			
shelter?			
Have you considered the potential for passive cooling and ventilation in summer?	/		
	V		
Have you considered how existing and proposed trees and shrubs could be used			
to provide shade for car parks and other private and public open space?			
3. Energy and carbon reduction			
Policies achieve climate neutrality by: reducing greenhouse gases by promoting developments that reduce the need for energy, use energy efficiently, supply energy			
efficiently and use renewable or low or zero carbon technologies.	Yes	No	N/a
Have you considered designing in measures to maximise energy efficiency?			
Have you explored ways to secure a proportion of energy demand through the	_		
Have you explored ways to secure a proportion of energy demand through the installation of renewable and/or low and zero carbon technologies?			
Have you checked whether your proposed development falls within a 'Potential			
District Heat Area', or a zone requiring buildings to be 'CHP Ready'?			



4. Water & Drainage Policies achieve climate neutrality by: incorporating adaptation measures to ensure development is resilient to increased risk of flooding or droughts; and reducing water demand and increasing more efficient use of water as periods of drought increase. Have you considered designing in water efficient fittings and appliances? Have you considered incorporating recycling and harvesting systems? Have you considered incorporating recycling and harvesting facilities for grey water? Have you considered designing in measures to minimise surface water run-off e.g. minimising paved areas and impermeable surfaces? Have you considered now any SUDS techniques used will achieve wider e.g. minimising paved areas and impermeable surfaces? Have you considered how any SUDS techniques used will achieve wider e.g. working the considered incorporating sustainable urban drainage (SUDS) into your development proposal?¹ Have you donsidered how any SUDS techniques used will achieve wider e.g. contribution to amenity, recreation, wildlife etc. Have you defined maintenance responsibilities for any proposed SUDS? 5. Waste & Materials Policies achieve climate neutrality by: facilitating the reduction, recycling and reuse of waste and providing opportunities to improve materials resource efficiency to reduce greenhouse gases. Have you considered how the design of the development can facilitate the reduction of waste and the recycling and composting of waste generated by concupants? Have you adopted procedures which will minimise construction waste e.g. re-use and recycle waste? Have you considered how the design of the development can facilitate the reduction of waste and the recycling and composting of waste generated by concupants? Considered how the design of the development can facilitate the reduction of waste and the recycling and composting of waste generated by concupants? Does the proposal encourage the use of re-used, recycled, recyclable and durable products e.g. salvage material or re-using/rec				
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¹ From 6 April 2015 all 'major' planning applications must consider sustainable drainage systems – see the Council's <u>Advice Note</u>.





Toronto, ON Victoria, CB



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