REDROW HOMES



Part of the ES Group

GREAT WILSEY PARK, HAVERHILL: RESIDENTIAL (PHASE 1 – PARCELS A1, A2, AND A8) RESERVED MATTERS APPLICATION

Landscape and Ecological Management Plan

Pursuant to Condition 7 of DC/15/2151/OUT

> June 2020 8110.LEMP.vf2

ecology solutions for planners and developers

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PLANS

PLAN ECO1	Site Location and Ecological Designations
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APPENDICES

1. INTRODUCTION

- 1.1. Ecology Solutions was commissioned by Redrow Homes in October 2018 to prepare materials to address the requirements of planning conditions for the development at Great Wilsey Park (reference: DC/15/2151/OUT).
- 1.2. Condition 7 requires that a Landscape and Ecological Management Plan (LEMP) be submitted and approved prior to commencement of development. The condition states:

No development shall commence within any phase or reserved matters application until a Landscape and Ecological Management Plan (LEMP) for that phase or reserved matters application has been submitted to and approved in writing by the local planning authority. The content of the LEMP shall include the following.

a) Description and evaluation of features to be managed including all new and existing woodland and coppiced areas, tree and shrub belts, field margin compensatory habitat, new and existing hedgerows and gapping up of existing areas of grassland, meadow and hedgerow margins with intended management regimes, those parts of the site that contain notable plant species recorded on the site, watercourse margins, attenuation ponds and associated features.

b) Ecological constraints on site and how these influence management.

- c) Aims and objectives of management.
- d) Appropriate management options for achieving aims and objectives.
- e) Prescriptions for management actions.

f) Preparation of a work schedule (including an annual work plan capable of being rolled forward over a five-year period).

g) Details of the body or organisation responsible for implementation of the plan.

h) Ongoing monitoring and remedial measures.

i) Strategy for the provision of information about sensitive habitats through a variety of outlets such as interpretation boards, new resident information packs.

The management plan for the existing Great Field Plantation woodland must include monitoring of public use of the woodland such that the design of pathways, fencing, hedging and other management operations are iterative, with the aim that the woodland design reflects the needs of the new community. Control of litter and dog waste (within normal refuse collection) can be part of this iterative process. The management plan should identify areas for coppicing to encourage understorey development.

The LEMP shall also include details of the legal and funding mechanism(s) by which the long-term implementation of the plan will be secured and the management body(ies) responsible for its delivery. The plan shall also set out (where the results from monitoring show that conservation aims and objectives of the LEMP are not being met) how contingencies and/or remedial action will be identified, agreed and implemented so that the development still delivers the fully functioning biodiversity objectives of the originally approved details.

The development shall be undertaken in accordance with the approved LEMP. All elements of the mitigation strategy shall be implemented in accordance with the approved details.

Reason: To ensure the satisfactory development of the site and that wildlife habitats and protected species are considered as part of the design process and are not affected adversely by the development.

1.3. This report sets out the management of features of ecological interest due to be retained and created and describes the wildlife enhancements and mitigation

strategies to be implemented as part of the first residential phase of the development (parcels A1, A2 and A8).

- 1.4. This LEMP has been written with regard to published guidance from the Chartered Institute of Ecology and Environmental Management (CIEEM)¹ and in accordance with Natural England and other relevant guidelines for protected species. It should be read in conjunction with materials produced by Exterior Architecture concerning the landscape strategy.
- 1.5. The document is set out as follows:
 - Ecological baseline and evaluation of important features within the site;
 - Objectives of the LEMP in order to maximise the ecological potential of features due to be retained within the site;
 - Specific ecological mitigation and enhancement measures to be provided in order to achieve the objectives;
 - Timescale for the delivery of these measures; and
 - Responsibilities for implementation and compliance.
- 1.6. In general, the focus of the ecological mitigation, enhancements and management is on the land covered by the Infrastructure RMA, which is subject to separate consideration. The majority of the land within parcels A1, A2 and A8 consists of arable fields, which is of limited ecological interest and in general offers limited opportunities for protected and notable species. Some existing interest is present, including hedgerows and field margins. In addition to this, further opportunities are to be incorporated as part of the built form and new public green spaces and gardens.

¹CIEEM (2018). *Guidelines for Ecological Impact Assessment in the UK and Ireland: Terrestrial, Freshwater, Coastal and Marine.* Version 1.1 – Updated September 2019. Chartered Institute of Ecology and Environmental Management, Winchester.

Great Wilsey Park, Haverhill: Residential (Phase 1 – Parcels A1, A2 and A8) Reserved Matters Application Ecology Solutions Landscape and Ecological Management Plan June 2020

2. CONTEXT AND CONSULTATION

- 2.1. The development at Great Wilsey Park is informed by several sources of information, including:
 - National Planning Policy Framework (2018);
 - St Edmundsbury Core Strategy (2010);
 - Haverhill Vision 2031 (2014);
 - Joint Development Management Policies Document (2015);
 - St Edmundsbury Green Infrastructure Strategy Final Report (2009);
 - Ecology ES Chapter and associated technical reports (2015); and
 - ES Addendum (2016).
- 2.2. In addition to these planning policy and technical sources, reference has been made to information on the natural environment provided by organisations such as Natural England, Suffolk Biodiversity Information Service (SBIS) and Suffolk Biodiversity Partnership (SBP). Regard has been had to designated sites in the locality, to existing habitats and features, and to local nature conservation priorities.
- 2.3. All these factors have helped to shape the vision and objectives for the Landscape and Ecological Management Plan.

2.4. National Planning Policy Framework

- 2.4.1. Guidance on national policy for biodiversity and geological conservation is provided by the NPPF, published in March 2012, revised on 24 July 2018 and updated on 19 February 2019. It is noted that the NPPF continues to refer to further guidance in respect of statutory obligations for biodiversity and geological conservation and their impact within the planning system provided by Circular 06/05 (DEFRA / ODPM, 2005) accompanying the now-defunct Planning Policy Statement 9 (PPS9).
- 2.4.2. The key element of the NPPF is that there should be "a presumption in favour of sustainable development" (paragraphs 10 to 11). It is important to note that this presumption "does not apply where the plan or project is likely to have a significant effect on a habitats site (either alone or in combination with other plans or projects), unless an appropriate assessment has concluded that the plan or project will not adversely affect the integrity of the habitats site" (paragraph 177). 'Habitats site' has the same meaning as the term 'European site' as used in the Habitats Regulations 2017.
- 2.4.3. Hence the direction of Government policy is clear; that is, the presumption in favour of sustainable development is to apply in circumstances where there is potential for an effect on a European site, if it has been shown that there will be no adverse effect on that designated site as a result of the development in prospect.
- 2.4.4. A number of policies in the NPPF are comparable to those in PPS9, including reference to minimisation of impacts to biodiversity and provision of net gains to biodiversity where possible (paragraph 170).

- 2.4.5. The NPPF also considers the strategic approach that Local Authorities should adopt with regard to the protection, maintenance and enhancement of green infrastructure, priority habitats and ecological networks, and the recovery of priority species.
- 2.4.6. Paragraphs 174 to 176 of the NPPF comprise a number of principles that Local Authorities should apply, including encouraging opportunities to incorporate biodiversity in and around developments; provision for refusal of planning applications if significant harm cannot be avoided, mitigated or compensated for; applying the protection given to European sites to potential SPAs, possible SACs, listed or proposed Ramsar sites and sites identified (or required) as compensatory measures for adverse effects on European sites; and the provision for the refusal for developments resulting in the loss or deterioration of 'irreplaceable' habitats unless there are 'wholly exceptional reasons' (for instance, infrastructure projects where the public benefit would clearly outweigh the loss or deterioration of habitat) and a suitable compensation strategy exists.
- 2.4.7. National policy therefore implicitly recognises the importance of biodiversity and that with sensitive planning and design, development and conservation of the natural heritage can co-exist and benefits can, in certain circumstances, be obtained.

2.5. St Edmundsbury Core Strategy

- 2.5.1. The St Edmundsbury Core Strategy was adopted on 14 December 2010. The Core Strategy sets out the vision, objectives, spatial strategy and overarching policies for the provision of new development in the Borough up to 2031. A single policy within the Core Strategy relates to ecology.
- 2.5.2. *Policy CS2 Sustainable Development* relates to sustainable environmental design measures, appropriate to the location and scale of development. Measures relating to ecology include:
 - Protection, conservation and the minimisation of impact to local wildlife and biodiversity;
 - The implementation of a Biodiversity Action Plan (BAP) to identify, create or sustain networks of protected habitat; and
 - Ensuring conformity to appropriate national standards, codes of practice and regulations.

2.6. Haverhill Vision 2031

- 2.6.1. The Haverhill Vision 2031 document is a comprehensive plan, guiding the overall direction of future service provision and the management of growth in Haverhill for at least the next 20 years.
- 2.6.2. Policy HV4: Strategic Site North-east Haverhill relates specifically to the Great Wilsey Park development. There are no elements of the policy that relate directly to ecology or nature conservation but does state that a buffer is identified which could provide a variety of supporting uses including Sustainable Drainage Systems (SuDS).

2.6.3. *Policy HV18: Green Infrastructure in Haverhill* refers to the maintenance, protection, enhancement and establishment of the green infrastructure network in and around Haverhill through the implementation of the St Edmundsbury Green Infrastructure Strategy. The policy states that opportunities exist to extend the coverage and connectivity of the strategic green infrastructure network and where appropriate, should be undertaken in association with new development.

2.7. Joint Development Management Policies Document

- 2.7.1. The Joint Development Management Policies Document was adopted on 27 February 2015 by Forest Heath District Council and on 24 February 2015 by St Edmundsbury Borough Council. The document replaces a number of policies within each councils existing Local Plan, replacing them with locally specific management policies for a wide range of topics, including preservation of the environment.
- 2.7.2. Policy DM2: Creating Places Development Principles and Local Distinctiveness promotes good design within new developments to ensure a better quality of life for people within the area. Measures proposed include taking mitigation measures into account to not adversely affect sites, habitats, species and features of ecological interest.
- 2.7.3. *Policy DM3: Masterplans* covers analysis of site conditions and key ecological identification for land allocated in Local Plans and Site Allocations DPD, following concept plan preparation, when a Local Planning Authority masterplan is required. This includes:
 - Extensive landscaping, green infrastructure and open space to ensure sufficient recreational space and support for local wildlife.
 - A full biodiversity plan of species and habitat protection and mitigation, compensation, and habitat creation.
- 2.7.4. Policy DM10: Impact of Development on Sites of Biodiversity and Geodiversity Importance mandates the recognition of advice provided by Natural England, the Suffolk Wildlife Trust and other specialist sources, specifically relating to:

a. the ecological or geological value and objectives for which the site was classified or designated;

b. the integrity of the site in terms of its wildlife value, its diversity and relationship with other ecological resources;

c. the cumulative impact of the proposal and other developments on the wildlife or geological value of the site;

d. the presence of protected species, habitat areas and wildlife corridors, or geological features, and proposed measures to safeguard and enhance them;

e. the opportunity to create new habitat areas and to improve the conservation status of locally vulnerable species;

f. guidance set down within Biodiversity Action Plans (BAP), habitat management plans and other relevant sources; and

g. the extent to which the imposition of conditions or planning obligation: i. would mitigate the effects of the development and/or protect the

geological or nature conservation value of the locality;

ii. ensure replacement habitat or features; and/or

iii. ensure that resources are made available for the future enhancement and management of the replacement habitat or feature to enable it to attain the quality and attributes that have been lost. Proposals for development which would adversely affect the integrity of areas of international nature conservation or geological importance, as indicated on the Polices Map, will be determined in accordance with the Conservation of Habitats and Species Regulations 2010 (as amended). Proposed development likely to result in adverse effects to a SSSI will not be permitted unless the benefits of the development, at this site, clearly outweigh both the impacts that it is likely to have on the features of the site that make it of special scientific interest and any broader impacts on the national network of SSSIs.

- 2.7.5. Policy DM11: Protected Species limits development exclusively to that which does not risk or, where unavoidable, satisfactorily mitigates against adverse impact on species protected under the Conservation of Habitats and Species Regulations (2010) (as amended), the Wildlife and Countryside Act (1981), the Protection of Badgers Act (1992) and the Suffolk Biodiversity Action Plan and subsequent legislation. The policy states that suitable measures should be taken to reduce disturbance to a minimum, maintain the population identified on site, or provide adequate alternative habitats to sustain at least the current levels of population.
- 2.7.6. Policy DM12: Mitigation, Enhancement, Management and Monitoring of Biodiversity states that measures for the protection of biodiversity and the mitigation of any adverse impacts should be included in the design of all developments, and enhancements for biodiversity should be included in all proposals, equal to the scale of the development.

2.8. St Edmundsbury Green Infrastructure Strategy – Final Report

- 2.8.1. The Green Infrastructure Strategy was developed by Land Use Consultants on behalf of St Edmundsbury Borough Council and sets out the green infrastructure requirements for the Borough and a framework of delivery.
- 2.8.2. Projects relevant to the site include:
 - The creation of green corridors to the north of Haverhill, improving links between the Stour Brook and the Stour Valley Path, as well as several other sites of interest. These links are primarily for pedestrian use but will also act as wildlife corridors; and
 - Landscape planting to be delivered in advance of, or alongside development to provide landscape and visual mitigation and habitat connectivity.

2.9. ES Chapter (2015) and Addendum (2016)

- 2.9.1. A series of surveys were undertaken to establish the baseline interest and inform the outline planning application process for the site. These were reported in the ES Chapter and accompanying technical appendices.
- 2.9.2. It was concluded that the adverse effects of the development on designated sites and habitats and species of interest can be avoided or adequately mitigated and / or compensated by the creation of new habitats and wildlife corridors included in the design. The loss of arable farmland and replacement with new semi-natural habitats was seen as being of benefit to

biodiversity. The overall effects on ecology were not considered likely to be significant.

2.9.3. The 2016 Addendum reviewed the predicted effects on ecological receptors in light of amendments to the scheme and comments made by consultees. Further information was provided on Badgers *Meles meles* and bats for which surveys continued after the submission of the planning application. Greater definition to the mitigation measures relating to Dormice *Muscardinus avellanarius* was included to satisfy the comments made by Suffolk Wildlife Trust. Other changes were not considered to be significant in the context of the overall evaluation of the effects of the development on ecology as described in the ES Chapter, and mitigation measures and residual impacts were considered to remain the same.

2.10. **Designated Sites**

- 2.10.1. The site is not subject to any statutory or non-statutory designation, nor is it immediately adjacent to such a designation. The following designated sites are present in the locality, and illustrated on Plan ECO1:
 - *Trundley and Wadgell's Wood, Great Thurlow Site of Special Scientific Interest (SSSI)* is situated some 2.7km to the north of the site at its closest point. The site has been designated for its substantial areas of ancient, semi-natural woodland. Both woodlands also possess a network of wide grassy rides.
 - Over and Lawn Woods SSSI lies on chalky boulder clay and has been designated for its ancient woodland supporting well developed plant and animal communities. It is some 3.9km north-west of the site at its closest point.
 - *Haverhill Railway Walks Local Nature Reserve (LNR)* is some 340m to the south of the site. It is designated for its tree and scrub cover, providing a valuable wildlife corridor.
- 2.10.2. The Landscape and Ecological Management Plan will aim to complement these existing nature conservation designations wherever possible, particularly Haverhill Railway Walks LNR, a short distance to the south.

2.11. Suffolk Biodiversity Partnership

- 2.11.1. Suffolk Biodiversity Partnership has prepared a list of the UK Priority Species which occur in the region. The list includes:
 - Mammals including Barbastelle Bat Barbastella barbastellus, Brown Long-eared Bat Plecotus auritus, Lesser Horseshoe Bat Rhinolophus hipposideros, Noctule Bat Nyctalus noctula, Soprano Pipistrelle Pipistrellus pygmaeus, Dormouse, Otter Lutra lutra, Water Vole Arvicola amphibius, Harvest Mouse Micromys Minutus, Hedgehog Erinaceus europaeus, Polecat Mustela putorius and Brown Hare Lepus europaeus;

- Birds such as Skylark Alauda arvensis, Yellowhammer Emberiza citrinella, Linnet Carduelis cannabina and Bullfinch Pyrrhula pyrrhula;
- Adder Vipera berus, Grass Snake Natrix helvetica, Common Lizard Zootoca vivipara and Slow Worm Anguis fragilis;
- Common Toad *Bufo bufo*, Great Crested Newt *Triturus cristatus*, and Natterjack Toad *Bufo calamita*; and
- A wide range of invertebrates and vascular and non-vascular plants.
- 2.11.2. Biodiversity Action Plans (BAP) or factsheets have been prepared for certain species including bats, Dormice, Otters, Water Voles, Skylarks and Linnets.
- 2.11.3. A suite of factsheets is currently being developed, and many of the existing BAPs have now been archived. However, they remain available as they still contain useful information.
- 2.11.4. Ecological survey work undertaken to inform the outline planning application and the recent updates completed by Ecology Solutions has established that the site supports, or has potential to support, several of these local conservation priority species. A key objective of the Landscape and Ecological Management Plan will be to maximise opportunities for these species wherever possible.
- 2.11.5. Suffolk Biodiversity Partnership has Habitat Action Plans (HAP) for the following habitats of relevance to the site and the development. A number of the HAP documents have now been replaced by factsheets. The following HAPs have been considered as part of this strategy:
 - Hedgerows;
 - Mixed Deciduous Woodland;
 - Arable Field Margins;
 - Rivers and Streams; and
 - Ponds.
- 2.11.6. Suffolk Biodiversity Partnership has also prepared a Planning Biodiversity Action Plan to assist local authority and other planning departments meet their legal obligations towards biodiversity.

2.12. Consultation with Wildlife Trust

- 2.12.1. Suffolk Wildlife Trust has previously been consulted regarding the scope of the development and their aspirations for the site.
- 2.12.2. It is expected that further opportunities for consultation and feedback will be taken as the development progresses.

3. DESCRIPTION AND EVALUATION OF FEATURES TO BE MANAGED

3.1. This section sets out the inventory of existing habitats to be retained and managed, identifying features of particular interest or importance that will be priorities for management. This information is derived from work undertaken to inform the outline ES, as well as walkover surveys undertaken by Ecology Solutions in 2018/19.

3.2. Existing Woodland

Woodland Strip

- 3.2.1. The woodland strip in the south-east of parcel A8 comprises immature, even-aged native species. There is no active management of the woodland
- 3.2.2. The woodlands within the site, being plantations, were not classed by the ES as habitats of principal importance under the Natural Environment and Rural Communities Act 2006. The ES recognised their value for wildlife, however, and categorised them as being of local value. The ES classed the watercourse as being of no more than local nature conservation value.

3.3. Field Margins

3.3.1. The field margins consist of semi-improved neutral grassland, with a range of common species, as summarised below.

Yorkshire Fog Holcus lanatus Cock's-foot Dactylis glomerata Creeping Bent Agrostis capillaris False Oat-grass Arrhenatherum elatius Timothy Phelum pratense Meadow Foxtail Alopecurus pratensis Red Fescue Festuca rubra agg Meadow Fescue Festuca pratensis Sweet Vernal Grass Anthoxanthum oderatum Soft Brome Bromus hordeaceus Wild Oat Avena fatua Meadow Oat-grass Avenula pratensis Black Grass Alopecurus myosuroides Barren Brome Bromus sterilis Glaucous Sedge Carex flacca Smooth Hawk's-beard Crepis capillaris	Red Clover T White Clover Knapweed Ce Ribwort Plant Ragwort Sene Betony Stach Tufted vetch Hop Trefoil Th Dove's-foot C Geranium mo Smooth Tare Rough Hawk' Field Bindwee Dandelion Ta Welted Thistle Red Bartsia C Smooth Sow- Sonchus oler
Spring Sedge Carex caryophyllea	Creeping Butt

Frifolium pratense Trifolium repens enturea nigra tain Plantago lanceolata necio jacobea hys officinalis Vicia cracea rifolium campestre Crane's-bill olle Vicia tetrasperma 's-beard Crepis biennis ed Convolvulus arvensis araxicum officinale agg. le Cardus crispus Odontites vernus -thistle raceus ttercup Ranunculus repens

3.3.2. Arable field margins are listed as habitats of principal importance under section 41 of the Natural Environment and Rural Communities Act 2006, as well as being Suffolk Biodiversity Action Plan Habitats. With the exception of the field margins in the north of parcels A1 and A2, which the ES classed as being of value at the site level, the margins were considered to be of negligible nature conservation interest owing in part to their easily replicable nature.

3.4. Existing Hedgerows

3.4.1. Two hedgerows are present within the Phase 1 Residential RMA, with a reasonable degree of species diversity present. Table 3.1 below, using data extracted from the ES chapter, summarises their features and interest. Assessment under Hedgerow Evaluation Grading System (HEGS) found H11 being classified as moderately high to high value, with H10 being of moderate value. Neither hedgerow is considered to be 'important' under the Hedgerow Regulations 1997. Both hedgerows contain at least 80% native species and therefore are habitats of principal importance in England under section 41 of the Natural Environmental and Rural Communities Act 2006; they are also Suffolk Biodiversity Action Plan habitats. The ES classed the existing hedgerows as being of local level importance to nature conservation.

Hedge Ref.	Woody Species	Height	Width	% Gaps	Ditch (wet or dry)	Grass Verge	Standard Trees	Connections	HEGS Grade	Impt. under Hedgerow Regulations
H10	Garden boundary hedgerow. Ps, Ms	4m+	2m	10%	Dry	Yes	0	2	3	No
H11	Cm, Ac, Ps, Ca, Fe, Cs, Vo	4m	2m	0%	n/a	Yes	<5	2	2	No

 Table 3.1. Existing Hedgerow Inventory (reproduced from ES chapter).

(Ac / Field Maple; Ca / Hazel; Cm / Hawthorn; Cs / Dogwood; Fe / Ash; Ms / Crab Apple; Ps / Blackthorn; Vo / Guelder rose.)

4. ECOLOGICAL CONSTRAINTS

- 4.1. This document has been informed by the background information accrued for the outline ES and by updated surveys undertaken by Ecology Solutions of the Redrow Homes site in 2018/19.
- 4.2. Habitats of value in the context of the Phase 1 Residential RMA include hedgerows, field margins, a dry ditch and a woodland strip.
- 4.3. The majority of the Phase 1 Residential RMA consists of intensively managed arable fields. These are intrinsically of low ecological interest, with the large arable fields in particular offering relatively little for wildlife. The woodland strip is immature and even-aged; The hedgerows, while a significant ecological asset, are gappy or missing in places.
- 4.4. None of these habitats pose an overriding ecological constraint in themselves, with the majority of the habitats of greater value being retained and enhanced as part of the green infrastructure associated with the Infrastructure RMA.
- 4.5. Parcels A1, A2 and A8 offer very limited opportunities for wildlife and what opportunities exist are limited to the boundary features of each parcel. Surveys undertaken to inform the outline planning application and those completed in 2018/19 identified a small number of bat species using the parcels for foraging and dispersal as well as an assemblage of wintering and breeding birds. Evidence Badgers, common reptiles (Common Lizard and Grass Snake) and amphibians (Common Toad and Smooth Newt), as well as some limited evidence of Dormice, has all been recorded within the wider Redrow site. Otters and Water Voles are known to be present in the wider locality. The site is expected to support a range of common invertebrates, but interest will be limited by the intensive arable management.
- 4.6. The presence of these species does not represent a constraint to development as such, since the results of the earlier work have informed the layout assessed in the outline ES and the parameter plans with which the Redrow scheme must comply. Nevertheless, the management prescriptions set out in the following pages have regard to the potential presence of these species within existing and proposed habitats, and the need for sympathetic treatment.
- 4.7. Overall, the Phase 1 Residential RMA possesses excellent potential for wildlife gains, in combination with the measures proposed for the Infrastructure RMA, retaining and enhancing the best of the existing habitats, while promoting new opportunities through the strategies for green and blue infrastructure networks. The establishment of new habitats and future management of the network as a whole will deliver significant benefits.

5. AIMS AND OBJECTIVES OF MANAGEMENT

5.1. This section sets out the vision and conservation objectives for the Phase 1 Residential RMA strategy.

The vision for the strategy is to provide a framework for enhancement and management across the site such that demonstrable net gains for biodiversity are achieved.

5.2. **Defining the Conservation Objectives**

- 5.2.1. Defining a set of objectives is central to the effectiveness of this strategy, given that it is intended to provide a framework that will safeguard existing nature conservation interest and provide guidance on enhancement and future management.
- 5.2.2. Specific objectives for the conservation of particular species or groups and particular habitats of nature conservation interest are set out in the relevant sections to follow. The nature of these objectives has been guided by the principles set out in UK and European wildlife legislation, notably the Wildlife & Countryside Act 1981 (as amended) and the Conservation of Habitat and Species Regulations 2017. Furthermore, the formulation of these objectives has also been influenced by national and local biodiversity and conservation targets, as set out in the UK Post-2010 Biodiversity Framework and the Suffolk Biodiversity Action Plan (BAP).
- 5.2.3. The overarching objectives for nature conservation are as follows:

Objective 1

To safeguard species important in the national and local context, and to maintain or enhance their conservation status as appropriate.

Objective 2

To ensure that the site continues to support a similar complement of species to that already existing.

Objective 3

To enhance the biodiversity of the site, where this is compatible with the above objectives.

5.3. Achieving the Objectives

- 5.3.1. Information on the existing situation within the Phase 1 Residential RMA, and the Redrow site as a whole, and its environs with regard to any habitats of ecological interest and the presence of protected species has been collated as part of the preparation of this document and it is upon this foundation that the specific enhancements and management prescriptions to follow are based.
- 5.3.2. Where appropriate, specific objectives are defined in the sections to follow.

- 5.3.3. The Landscape and Ecological Management Plan, and the various measures described in the following sections, are illustrated on Plans ECO2a to ECO2c.
- 5.3.4. This document should be read in conjunction with the materials produced by Exterior Architecture on the landscape strategy for the Phase 1 Residential RMA, namely the GA and Planting Plans, the Planting Schedule and the Phase 1 Landscape Strategy.

6. WOODLAND STRIP

6.1. This section is concerned with the management of the existing woodland strip within parcel A8, as shown on the GA and Planting Plans.

To establish high quality new habitats using appropriate native species mixes.

To promote greater habitat diversity in existing woodland.

6.2. **Prescriptions for Management Actions**

- 6.2.1. The woodland strip in the south-east of parcel A8 comprises immature, even-aged native species. Long term management will encourage growth of native species and diversification of the habitat.
- 6.2.2. A significant area of new woodland is to be established adjacent to the woodland strip (see Table 6.1 below). This will be based around W8 NVC woodland as recommended in the ES. Long term management will encourage growth of native species and diversification of the habitat.
- 6.2.3. An appropriate coppicing regime will be introduced on a 15-year rotation to encourage a vigorous understorey.
- 6.2.4. Additionally, areas of lowland woodland will be planted throughout the Phase 1 Residential RMA.

Species
Field Maple Acer campestre
Downy Birch Betula pubescens
Hornbeam Carpinus betulus
Dogwood Cornus sanguinea
Hazel Corylus avellana
Hawthorn Crataegus monogyna
Spindle Euonymus europaeus
Beech Fagus sylvatica
Holly Ilex aquifolium
Wild Privet Ligustrum vulgare
Crab Apple Malus sylvestris
Wild Cherry Prunus Avium
Blackthorn Prunus spinosa
Sessile Oak Quercus petraea
Oak Quercus robur
Buckthorn Rhamnus cathartica
Goat Willow Salix caprea
Grey Willow Salix cinerea
Elder Sambucus nigra
Rowan Sorbus aucuparia
Yew Taxus baccata
Small-leaved Lime Tilia cordata
Wayfaring-tree Viburnum lantana

Table 6.1. New woodland planting species list.

6.2.5. New areas of extensive tree planting will be under-sown with Emorsgate Seeds woodland mix (see Table 6.2 below).

EW1 Woodland Mixture Species	% per Mix
Wild Flowers	
Garlic Mustard Alliaria petiolata	3%
Ramsons Allium ursinum	0.8%
Betony Stachys officinalis	1.6%
Rough Chervil Chaerophyllum temulum	1%
Foxglove Digitalis purpurea	0.2%
Meadowsweet Filipendula ulmaria	2%
Hedge Bedstraw Galium album	1%
Water Avens Geum rivale	1%
Wood Avens Geum urbanum	0.2%
Bluebell Hyacinthoides non-scripta	2.8%
Hairy St John's-wort Hypericum hirsutum	0.8%
Primrose Primula vulgaris	0.2%
Selfheal Prunella vulgaris	1.5%
Red Campion Silene dioica	2.7%
Ragged Robin Lychnis flos-cuculi	0.2%
Wood Sage Teucrium scorodonia	1%
	20%
Grasses	
Common Bent Agrostis capillaris	10%
Sweet Vernal Grass Anthoxanthum odoratum	2%
False Brome Brachypodium sylvaticum	7%
Crested Dog's-tail Cynosurus cristatus	28%
Tufted Hair-Grass Deschampsia cespitosa	1%
Slender Creeping Red Fescue Festuca rubra	20%
ssp. litoralis	
Wood Meadow-grass Poa nemoralis	12%
	80%

 Table 6.2. Emorsgate Seeds EW1 Woodland Mixture species list.

6.3. Initial Aftercare and Long-term Management and Maintenance

Trees

- 6.3.1. Watering will be required during periods of drought for no less than the first three years after planting to ensure satisfactory establishment.
- 6.3.2. Trees will be inspected every six months for the first two years to ensure that they are healthy, not diseased or damaged, or dead. After the first two years, trees can be inspected annually if found to be establishing well.
- 6.3.3. Any failed trees within the first five years will be replaced and maintained for a subsequent five years. Tree replacement will occur in early spring or late autumn.
- 6.3.4. Annual pruning will be completed between January and March. Emergency pruning will be undertaken immediately after a critical fault is identified.

Woodland Management

- 6.3.5. Woodland compartments in A8 will be thinned to allow understorey shrub development, which are of more value to Dormice than the current tree canopy. Understorey species will be planted, including Oak, Hawthorn, Wayfaring-tree *Viburnum lantana*, Crab Apple *Malus sylvestris*, Cherry and Hazel.
- 6.3.6. Management will include coppicing, rotational cutting of sections of hedgerows at three to five year intervals and / or hedgerow laying; such measures will ensure increased fruiting bodies and understorey renewal of growth which will benefit invertebrates.

Grassland

- 6.3.7. Seed is best sown in the autumn or spring but can be sown at other times of the year if there is sufficient warmth and moisture.
- 6.3.8. **EW1 Woodland Mixture.** In established woodland the woodland mix requires very little management.
- 6.3.9. In young or open woodland with higher light levels, the mix should be cut annually in mid-summer until the tree cover has established.

7. HEDGEROWS AND TREES

7.1. This section is concerned with the establishment and management of existing and new hedgerows and trees.

7.2. Conservation Objectives

To establish high quality new habitats using appropriate native species mixes.

To manage hedgerows to promote dense structure and enhanced habitat for wildlife

7.3. Prescriptions for Management Actions

7.3.1. The existing hedgerow network is a key green infrastructure asset and is to be retained and enhanced wherever possible. Gaps in existing hedgerows will be reinforced with native species. New hedgerow and shrub planting will comprise native species as shown on the GA and Planting Plans and Planting Schedule and listed in Table 7.1 below.

Native Hedgerow and Shrub Species
Field Maple Acer campestre
Dogwood Cornus sanguinea
Hazel Corylus avellana
Hawthorn Crataegus monogyna
Spindle Euonymus europaeus
Holly Ilex aquifolium
Wild Privet Ligustrum vulgare
Crab Apple Malus sylvestris
Wild Cherry Prunus avium
Dog Rose Rosa canina
Guelder Rose Viburnum opulus

Table 7.1. Native Hedgerow and Shrub species list.

- 7.3.2. Hedgerows will continue to be managed. Management will aim to ensure continued good structure. Hedgerows will be cut on rotation, so that not all are cut in any one year. This will encourage greater availability of winter forage for birds. Hedgerows will be laid on rotation to encourage greater structural diversity.
- 7.3.3. Tree species planted in each of the parcels A1, A2 and A8 are set out in Tables 7.2 to 7.4 below. New tree planting is shown on Plans ECO2a to ECO2c.

No	Species
2	Field Maple Acer campestre 'Elegant'
8	Field Maple Acer campestre 'Elsrijk'
1	Père David's Maple Acer davidii
1	Norway Maple Acer platanoides 'Deborah'
6	Alder Alnus glutinosa
4	Birch <i>Betula</i> 'Edinburgh'
5	Chinese Red Birch Betula albosinensis 'Fascination'
14	Silver Birch Betula pendula

13	Hornbeam Carpinus betulus
5	Hornbeam Carpinus betulus 'Frans Fountaine'
6	Hawthorn Crataegus laevigata 'Plena'
7	Beech Fagus sylvatica
12	Crab Apple <i>Malus</i> 'Rudolph'
5	Japanese Crab Apple Malus floribunda
29	Flowering Cherry Prunus 'Accolade'
3	Flowering Cherry Prunus 'Pandora'
6	Flowering Cherry Prunus 'Spire'
4	Double Gean Prunus avium 'Plena'
9	Bird Cherry Prunus padus
1	Oak Quercus robur
6	Common Lime <i>Tilia x europaea</i>

Table 7.2. Tree planting species list, Parcel A1.

No	Species
5	Field Maple Acer campestre
4	Norway Maple Acer platanoides 'Crimson King'
6	Norway Maple Acer platanoides 'Olmsted'
1	Sycamore Acer pseudoplatanus 'Erectum'
1	Alder Alnus glutinosa
15	Birch <i>Betula</i> 'Edinburgh'
7	Chinese Red Birch Betula albosinensis 'Fascination'
6	Hornbeam Carpinus betulus 'Frans Fountaine'
2	Hawthorn Crataegus laevigata 'Plena'
10	Beech Fagus sylvatica
24	Crab Apple <i>Malu</i> s 'Rudolph'
1	Japanese Crab Apple Malus floribunda
3	Crab Apple Malus sylvestris
2	Lebanese Wild Apple Malus trilobata
33	Flowering Cherry Prunus 'Accolade'
16	Flowering Cherry <i>Prunu</i> s 'Pandora'
6	Flowering Cherry Prunus 'Umineko'
13	Double Gean <i>Prunus avium</i> 'Plena'
10	Bird Cherry Prunus padus
1	Rowan Sorbus 'Sunshine'
2	Vilmorin's Rowan Sorbus vilmorinii
18	Common Lime <i>Tilia x europaea</i>

Table 7.3. Tree planting species list, Parcel A2.

No	Species
6	Field Maple Acer campestre
3	Field Maple Acer campestre 'Elegant'
19	Field Maple Acer campestre 'Elsrijk'
1	Field Maple Acer campestre 'Streetwise'
3	Norway Maple Acer platanoides
1	Norway Maple Acer platanoides 'Crimson King'
13	Norway Maple Acer platanoides 'Deborah'
9	Norway Maple Acer platanoides 'Olmsted'
3	Sycamore Acer pseudoplatanus
4	Alder Alnus glutinosa
2	Snowy Mespilus Amelanchier x grandiflora 'Robin Hill'
1	Birch <i>Betula</i> 'Edinburgh'
2	Chinese Red Birch Betula albosinensis 'Fascination'
7	Silver Birch Betula pendula

10	Hornbeam Carpinus betulus
15	Hornbeam Carpinus betulus 'Frans Fountaine'
1	Hawthorn Crataegus laevigata 'Plena'
3	Hybrid Cockspur Thorn Crataegus x lavalleei
8	Beech Fagus sylvatica
13	Crab Apple <i>Malus</i> 'Rudolph'
3	Japanese Crab Apple Malus floribunda
20	Flowering Cherry Prunus 'Accolade'
24	Flowering Cherry <i>Prunu</i> s 'Pandora'
15	Double Gean Prunus avium 'Plena'
9	Bird Cherry Prunus padus
15	Oak Quercus robur
4	Swedish Whitebeam Sorbus intermedia 'Brouwers'
1	Vilmorin's Rowan Sorbus vilmorinii
6	Common Lime Tilia x europaea

Table 7.4. Tree planting species list, Parcel A8.

7.4. Initial Aftercare and Long-term Management and Maintenance

Trees

- 7.4.1. Watering will be required during periods of drought for no less than the first three years after planting to ensure satisfactory establishment.
- 7.4.2. Trees will be inspected every six months for the first two years to ensure that they are healthy, not diseased or damaged, or dead. After the first two years, trees can be inspected annually if found to be establishing well.
- 7.4.3. Any failed trees within the first five years will be replaced and maintained for a subsequent five years. Tree replacement will occur in early spring or late autumn.
- 7.4.4. Annual pruning will be completed between January and March. Emergency pruning will be undertaken immediately after a critical fault is identified.

Shrubs and Hedgerows

- 7.4.5. Shrub and hedgerow planting will be inspected every three months to ensure that they are healthy, not diseased or damaged, or dead. Any failed species will be removed and replaced with the same species and size.
- 7.4.6. Pruning and dead-heading will be completed at the end of the plant flowering seasons (spring to autumn) as required.

8. GRASSLAND AND PARKS

8.1. This section is concerned with the establishment of the grassland, as shown on the GA and Planting Plans.

8.2. Conservation Objectives

To establish high quality new habitats using appropriate native species mixes.

To manage these habitats appropriate to maximise botanical and wildlife interest.

8.3. **Prescriptions for Management Actions**

- 8.3.1. The planting schedule includes the retention and management of existing field margins and the provision of meadow grassland habitat, designed to encourage greater wildflower diversity. This habitat diversification will favour invertebrates and will in turn provide net gains for local wildlife.
- 8.3.2. Areas of amenity grassland within parcels A1, A2 and A8 will be seeded with a flowering lawn mix (see GA and Planting Plans, Planting Schedule and Tables 8.1 and 8.2 below).

EL1 Flowering Lawn Mixture Species	% per Mix
Wild Flowers	
Lady's Bedstraw Galium verum	4%
Rough Hawkbit Leontodon hispidus	0.5%
Oxeye Daisy Leucanthemum vulgare	1%
Birdsfoot Trefoil Lotus corniculatus	3.7%
Cowslip Primula veris	3.0%
Selfheal Prunella vulgaris	4.0%
Meadow Buttercup Ranunculus acris	3.5%
Red Clover Trifolium pratense	0.1%
	20%
Grasses	
Common Bent Agrostis capillaris	8.0%
Crested Dog's-tail Cynosurus cristatus	40.0%
Slender Creeping Red Fescue Festuca rubra ssp. litoralis	28.0%
Smaller Cat's-tail Phleum bertolonii	4.0%
	80%

 Table 8.1. Emorsgate Seeds EL1 Flowering Lawn Mixture species list.

EG22C Flowering Lawn Mixture Species	% per Mix
Wild Flowers	
White Clover Trifolium repens	5%
	5%
Grasses	
Common Bent Agrostis capillaris	2.375%
Highland Bent Agrostis castellana	2.375%
Slender Creeping Red Fescue Festuca rubra ssp. litoralis	47.5%
Perennial Rye Grass Lolium perenne	23.75%
Smooth-stalked Meadow-grass Poa pratensis	19%
	95%

Table 8.2. Emorsgate Seeds EG22C Flowering Lawn Mixture species list.

- 8.3.3. The existing field margins are recognised to be of relatively higher botanical interest, particularly in the north of parcels A1 and A2. These will be retained and subject to ongoing management in line with other grassland areas to maximise their botanical interest. There will be no storage of materials or tracking over of these areas, and no new tree planting. Where appropriate, discreet signage will be used to encourage members of the public to walk on designated paths.
- 8.3.4. New areas of wildflower grassland are to be established at the boundaries of A1, A2 and A8 (see Table 8.3 below). These areas are currently principally intensive arable and field margins respectively.
- 8.3.5. Liaison with Suffolk Wildlife Trust will be held to determine the feasibility of using seed sourced from local nature reserves and designated sites, to ensure locally native varieties. Should this not to practicable, approved seed mixes appropriate for the habitat and soil type will be used.
- 8.3.6. Newly established meadows will be cut on an annual basis as required, with the arisings removed. These would be retained as 'habitat piles' in suitable locations to encourage reptiles.

EM6 Meadow Mixture for Chalk & Limestone Soils	% per Mix
Species Wild Flowers	
Yarrow Achillea millefolium	0.5%
Kidney Vetch Anthyllis vulneraria	0.5%
Common Knapweed Centaurea nigra	1.5%
Greater Knapweed Centaurea scabiosa	2%
Wild Basil Clinopodium vulgare	0.4%
Wild Carrot Daucus carota	1%
Lady's Bedstraw Galium verum	2%
Field Scabious Knautia arvensis	1.5%
Rough Hawkbit Leontodon hispidus	0.4%
Oxeye Daisy Leucanthemum vulgare	0.5%
Bird's-foot Trefoil Lotus corniculatus	0.6%
Sainfoin Onobrychis viciifolia	1.5%
Wild Marjoram Origanum vulgare	0.2%
Hoary Plantain <i>Plantago media</i>	0.7%
Salad Burnet Sanguisorba minor	2%
Cowslip Primula veris	1%
Selfheal Prunella vulgaris	1%
Meadow Buttercup Ranunculus acris	1%

Bulbous Buttercup Ranunculus bulbosus	1.5%
Small Scabious Scabiosa columbaria	0.2%
	20%
Grasses	
Quaking-grass Briza media	4%
Glaucous Sedge Carex flacca	0.2%
Crested Dog's-tail Cynosurus cristatus	32%
Sheep's-fescue Festuca ovina	24%
Slender Creeping Red Fescue Festuca rubra ssp. litoralis	12.6%
Crested Hair-grass Koeleria macrantha	2%
Smaller Cat's-tail Phleum bertolonii	4%
Yellow Oat-grass Trisetum flavescens	1.2%
	80%

Table 8.3. Emorsgate Seeds EM6 Meadow Mixture for Chalk and Limestone Soils species list.

8.4. Initial Aftercare and Long-term Management and Maintenance

- 8.4.1. Seed is best sown in the autumn or spring but can be sown at other times of the year if there is sufficient warmth and moisture.
- 8.4.2. **EL1 and EG22C Flowering Lawn Mixture.** Newly sown flowering lawns should be mown every 7-10 days during the growing season of the first year to a height of 40-60mm. Residual perennial weeds will be carefully dug out or spot treated.
- 8.4.3. After the first year the grass will be mown regularly to a height of 25-40mm. Management can be relaxed from late June for 4-8 weeks to allow for flowering (mowing may be suspended earlier to allow for Cowslip to flower). Heavy quantities of cuttings should be collected and removed from site.
- 8.4.4. **EM6 Meadow Mixture for Chalk and Limestone Soils.** Newly sown meadows will be mown regularly throughout the first year of establishment to a height of 40-60mm. This will control annual weeds and help maintain balance between faster growing grasses and slower developing wild flowers. Cuttings will be removed if dense. Residual perennial weeds will be carefully dug out or spot treated.
- 8.4.5. In subsequent years, on poor shallow soils the grass will be cut once or twice at the end of the summer.
- 8.4.6. On deeper soils best results are usually obtained by traditional meadow management. This will include a cut to 50mm after flowering in July or August. The cuttings will be left to dry and shed seed for 1-7 days before being removed from the site. The grass can then be maintained at a height of 50mm through to spring.
- 8.4.7. Areas of new and retained and enhanced planting will be monitored annually for the first five years to ensure that the species diversity and composition is developing in such a way as to enhance the site for wildlife.
- 8.4.8. Watering will be required during periods of drought to ensure satisfactory establishment. Watering will be undertaken as required to maintain healthy plant growth.

8.4.9. Dead or diseased plants will be removed and replaced with the same species immediately after identification.

9. WORK SCHEDULE AND FIVE-YEAR PLAN

Habitat	Action	Timing		
Trees	Establishment	From Year 1 growing season onwards		
	Watering	Where required during first three years in periods of drought		
	Inspection	Every six months for first two years to check for damage and disease. Replaced if failing		
	Inspection	Annually from two years onwards if establishing well		
	Pruning	Between January and March as required		
Grassland	Sowing	Generally autumn sowing, possibly spring		
EL1 and EG22C Flowering Lawn	Mowing	Every 7-10 days during growing season for first year to 40-60mm		
	Spot treatment of weeds	Using approved herbicide or digging out		
	Mowing	After first year, to height of 25-40mm. Relaxed management from late June for 4-8 weeks. Collect cuttings		
EW1 Woodland	Mowing	In establishing woodland, cut annually in mid-summer until tree cover has established. Thereafter, very little management required		
EM6 Chalk / Limestone	Mowing	Mow regularly during growing season of first year to height of 40.60mm. Remove arisings.		
Meadow	Spot treatment of weeds	Using approved herbicide or digging out		
	Mowing	From year 2 onwards, cut to 50mm after flowering in July / August. Leave cuttings to dry for 1-7 days to shed seed, then remove arisings. Maintain grass at height of 50mm to spring		
Grassland	Arisings	Retain proportion of arisings as habitat piles in reptile mitigation areas		
Woodland Strip	Understorey planting	Year 1 growing season		
	Understorey inspection	Every six months for first two years to check for damage and disease. Replaced if failing		
	Understorey inspection	Annually from two years onwards if establishing well		
	Log piles	Using felled timber from Year 1 onwards; replenished with further woodland management		
	Coppicing	Hazel stools coppiced on 15-year rotation from Year 1 onwards.		
New Woodland	Establishment	From Year 1 growing season onwards		
	Watering	Where required during first three years in periods of drought		
	Inspection	Every six months for first two years to check for damage and disease. Replaced if failing		
	Inspection	Annually from two years onwards if establishing well		
	Pruning	Between January and March as required		
Hedgerows	Gapping up	From Year 1 growing season onwards		
	Watering	Where required during first three years in periods of drought		
	Inspection	Every six months for first two years to check for damage and disease. Replaced if failing		
	Inspection	Annually from two years onwards if establishing well		

Cutting	Over winter on three-year rotation, so only one third cut in any one year, unless adjacent to public right of way, cycleway or pedestrian route
Laying	Hedgerows laid in rotation by experienced contractor,
	over winter period

10. IMPLEMENTATION AND FUNDING

- 10.1. Redrow Homes has ultimate responsibility for implementation of this strategy. The individual currently leading for Redrow Homes is Richard Franks, Senior Engineering Manager, and the responsibility for implementation will be his or that of his appointed successor.
- 10.2. It is the responsibility of the appointed individual at Redrow Homes to instruct appropriate experienced contractors to establish the various features and habitats proposed, and also the responsibility of the appointed individual at Redrow Homes to instruct appropriate experienced ecologists and / or landscape contractors to check the work.
- 10.3. Clear channels between these parties and their associates on the ground will be in operation at all times, by email and telephone as appropriate.
- 10.4. Redrow and the landowner will establish a joint management company to manage and maintain the public landscape areas of Great Wilsey Park. The management company will be responsible for the ongoing maintenance of areas of soft landscaping within public open spaces, attenuation basins and Great Field Plantation.

11. MONITORING AND REMEDIAL MEASURES

- A separate comprehensive Biodiversity Monitoring Strategy for the Phase 1 Residential RMA has been prepared to address the requirements of Condition 45. That document should be referred to for full details of monitoring of newly established habitats and features.
- 11.2. The results of this monitoring work will be fed back into the evolution of this strategy, to adjust the approach to management where necessary, to ensure that the development still delivers the defined aims and objectives.

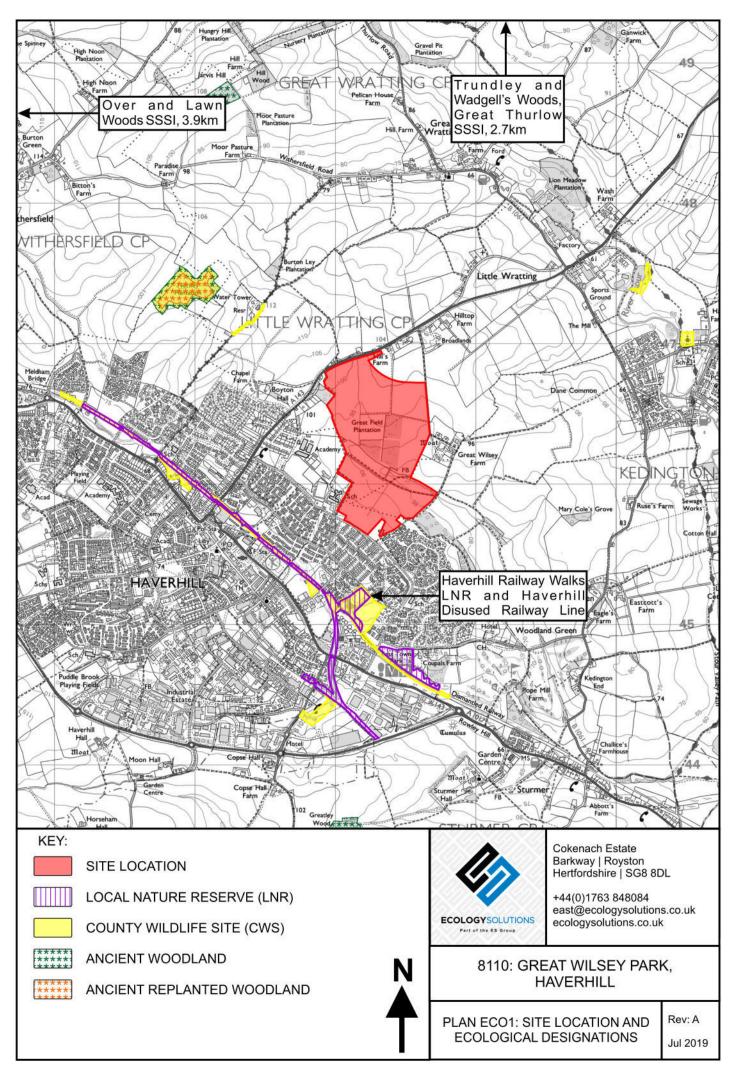
12. INFORMATION STRATEGY

- 12.1. New residents will be provided with an information pack setting out the value of the various retained and proposed habitats and features within the Redrow site. This will be provided at occupation.
- 12.2. Three to four information and interpretation boards will be provided in key locations within the green infrastructure, setting out the wildlife interest of the site and how residents and visitors can find out more. These are to be provided as part of the Infrastructure RMA rather than the Residential RMA.
- 12.3. The precise text and locations will be agreed with West Suffolk Council, with the boards installed prior to first occupation of the new development.

PLANS

PLAN ECO1

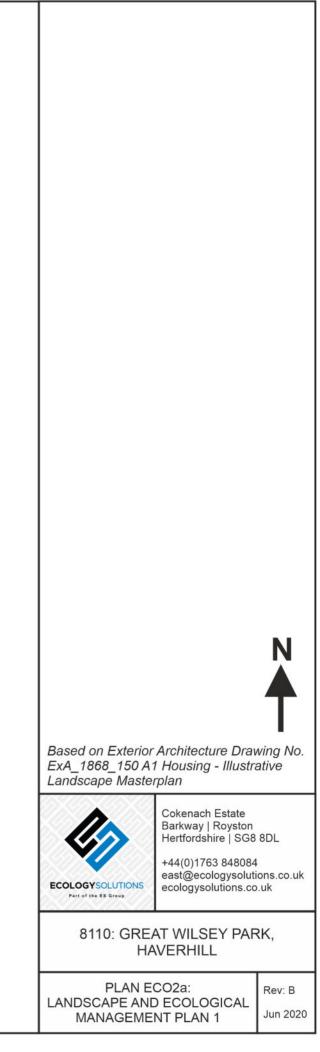
Site Location and Ecological Designations



PLAN ECO2a

Landscape and Ecological Management Plan 1

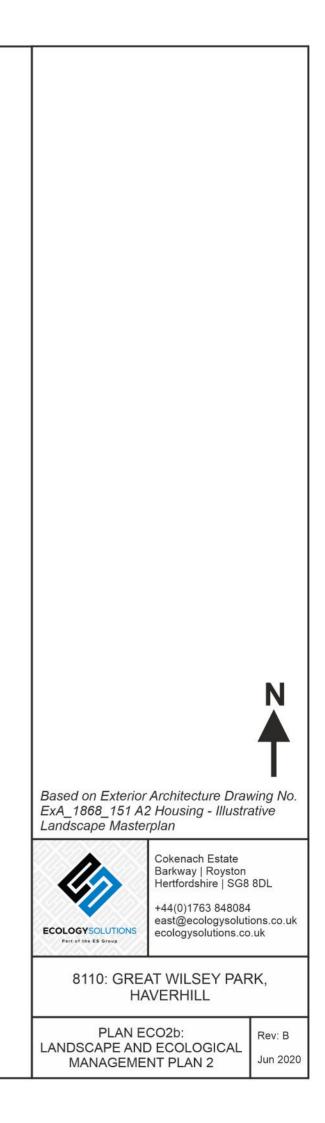




PLAN ECO2b

Landscape and Ecological Management Plan 2





PLAN ECO2c

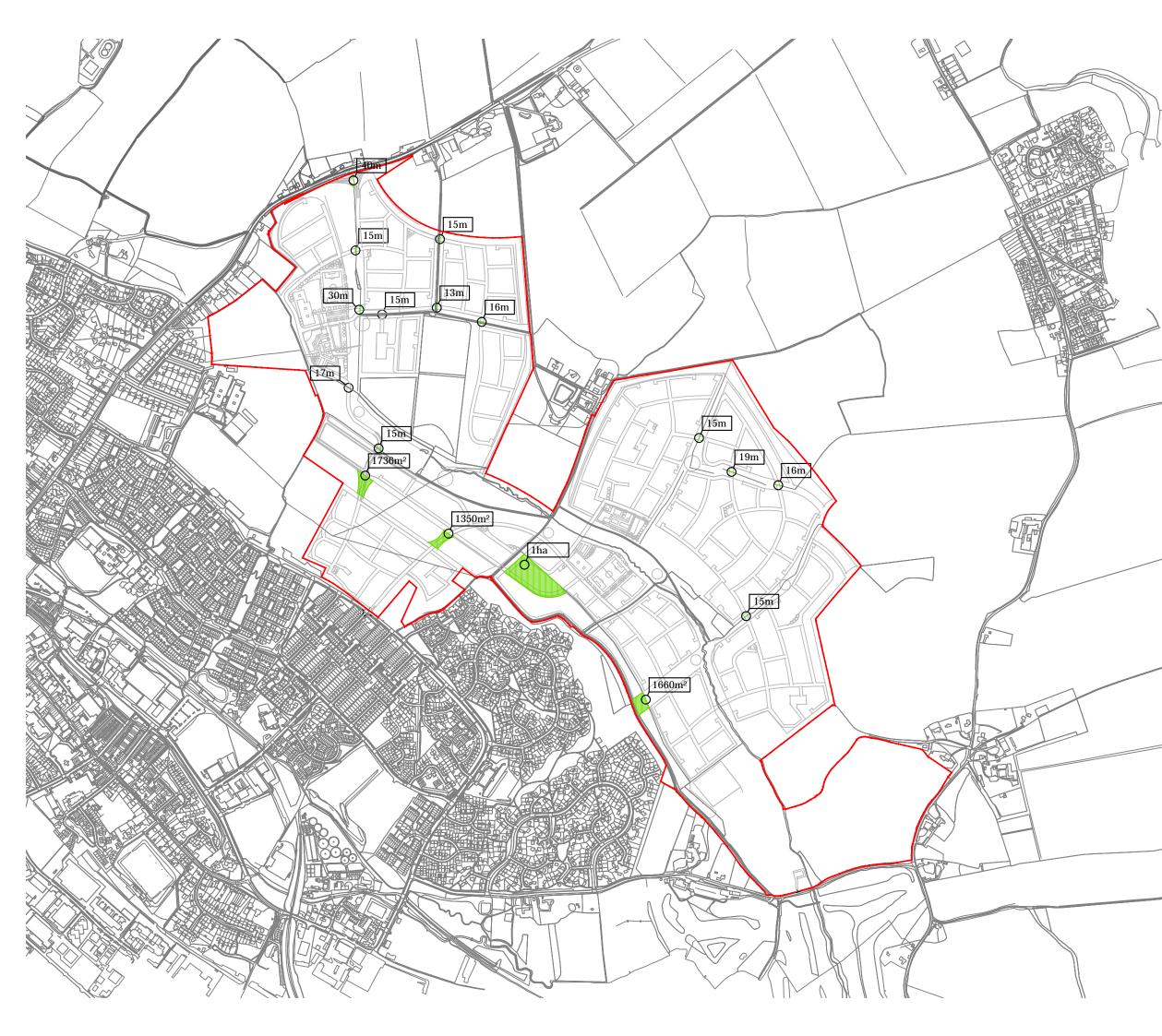
Landscape and Ecological Management Plan 3



APPENDICES

APPENDIX 1

Hedgerow Removal Plan 5055-L-112 rev C



NOTES

All dimensions to be verified on site. Do not scale this drawing. All discrepancies to be clarified with project Landscape Architect.

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N	Scale 1:10,000 @ A3				
	0 100	200	300	400	500m
	Application bounda	ıry			168.34ha
	Hedgerow to be removed to facilitate road access (Total length) (Assumed 2.5 roadside clearance for visibility)				241m
	Woodland to be rea	moved (T	otal area)		1.47ha

10.08.15 06.08.15 21.07.15 Coupals Road access / car park included Change to site access Change to road layout C B A NJE NJE SJ rev date by description lesign
 urban design =
 FPCR Environment and Design Ltd

 ecology =
 Lockington Hall

 architecture =
 Lockington

 arboriculture =
 Derby DE74 2RH
 fpcr t: 01509 672772 f: 01509 674565 e: mail@fpcr.co.uk w: www.fpcr.co.uk HALLAM LAND MANAGEMENT LTD ^{project} Great Wilsey Park Haverhill drawing title Hedgerow Removal Plan ^{scale} 1:10,000@A3 drawn NJE July 2015 ^{drawing number} 5055-L-112 rev C CAD file: 5055/LANDS/CAD/Masterplan 01.04.15



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