Land North of Barkby Road, Syston

Arboricultural Impact Assessment

(Incorporating Tree Protection Measures)

Prepared by:
The Environmental Dimension Partnership Ltd

On behalf of:
Taylor Wimpey (UK) Ltd

November 2021
Report Reference:
edp4685_r003e

Contents

Appendices

Plans

This version is intended for electronic viewing only

	Report Ref: edp4685_r003			
	Author	**Formatted**	**Peer Review**	**Proofed by/Date**
003c	LM	NH	LT	CM 080618
003d_DRAFT	BW	SC	DG	
003e	BW	-	-	NH 291021

Section 1
Introduction

1.1 This Arboricultural Impact Assessment (AIA) has been prepared by the Environmental Dimension Partnership Ltd (EDP) on behalf of Taylor Wimpey (UK) Ltd in relation to the proposed development of Land North of Barkby Road, Syston (hereafter referred to as 'the Site'). It sets out the nature and extent of tree losses and provides mitigation and protection measures, to ensure the viable long-term retention of retained trees in the context of the development proposals.

1.2 The Site is located on the south-eastern urban edge of the town of Syston and lies within the administrative boundary of Charnwood Borough Council (CBC). It consists of two arable fields bounded by hedgerows. The site is bordered by further agricultural land to the north; the Queniborough Road runs the length of the eastern boundary; Barkby Road runs the length of the southern boundary; and residential properties lie to the west.

1.3 This AIA has been prepared using EDP's arboricultural constraints information contained within the Arboricultural Technical Note (**edp4685_r002**) found to the rear of this report as **Appendix EDP 1**. This baseline survey data was collected by EDP on 15 March 2018. In line with the Arboricultural Technical Note, there is a need to resurvey after a period of 24 months. However, given the minor layout change of the proposed and the trees' proximity to it, it is felt that there has been no material change to tree stock, and therefore this period has been extended.

Aims and Objectives

1.4 The purpose of this AIA is to assess the impacts upon the tree stock from the proposed development and demonstrate which trees can be retained and which will require removal. In addition, it will provide mitigation measures, such as protective fencing, to ensure the safe, long-term retention of any retained tree, should the development be permitted.

1.5 This AIA has been prepared to inform an Outline planning application for up to 195 dwellings, together with associated affordable housing, open space, landscaping, drainage and play space facilities. All matters reserved bar access which is proposed from Barkby Road.

Relevant Baseline Documents

1.6 EDP's Arboricultural Technical Note (**edp4685_r002**) is relevant to the provisions of this AIA and this AIA should be read in conjunction with the Technical Note, where applicable.

1.7 The following best practice guidance and informative standards are relevant to the provisions of this AIA and should be read in conjunction with the AIA where applicable:

- BS 5837:2012 *Trees in Relation to Design, Demolition and Construction – Recommendations*. BSI 2012;

- NJUG Volume 4 - *Guidelines for the Planning, Installation and Maintenance of Utility Apparatus in Proximity to Trees*. National Joint Utilities Group 2007; and

- BS 3998: 2010. *Tree Work – Recommendations*. BSI 2010.

Section 2
Arboricultural Impact Assessment

2.1 This Arboricultural Impact Assessment (AIA) has been prepared following site-based observations, a desktop study of the survey data and consideration of the Concept Masterplan (**Appendix EDP 2**). It relates to the baseline arboricultural assessment and constraints information contained within **Appendix EDP 1**, which is overlaid onto the Concept Masterplan (**Appendix EDP 2**). The resulting drawing, a Tree Protection Plan (**Plan EDP 1**), is provided at the rear of this report.

2.2 This AIA recognises that construction activities pose a threat to subject trees if they are treated inappropriately, assesses the likely impacts of the proposals on the tree stock, and where appropriate, provides mitigation with the view of achieving a harmonious relationship between the trees and the built form.

2.3 Assessment of the impact of the proposals has been determined following consideration of the constraints each surveyed item poses, by virtue of its position, branch spread and designated root protection area (RPA).

2.4 Consideration should be given to retaining all trees where possible. However, ultimately the removal of any tree is dependent on its proximity to the footprint of any proposal and associated landscaping.

Tree Removals for Reasons of Sound Arboricultural Management

2.5 The BS 5837:2012 compliant survey identified a total of five category U items, four of which whose conditions were considered to be impaired to such an extent that they should be removed, irrespective of any development proposals, and are therefore not included in the calculations to follow. These are summarised in **Table EDP 2.1** below and detailed in the Tree Survey Schedule contained within **Appendix EDP 1**.

2.6 The removal of any items off-site would require permission from the landowner.

2.7 The exception to this is the fifth category U item, an ash tree (T10) which has bat roost potential and is to be retained as an ecological feature. Due to the condition of this tree, it is recommended that should the development proceed, this tree is periodically assessed to ensure it can be safely retained. If this tree requires any work or felling in the future, ecological advice should be sought prior to any work being undertaken.

Table EDP 2.1: Tree Removal for Reasons of Sound Arboricultural Management

Tree Number	Tree Species	Tree Grade
H12	Common hawthorn (*Crataegus monogyna*)	U
H14	Common hawthorn (*Crataegus monogyna*)	U

Tree Number	Tree Species	Tree Grade
H15	Common hawthorn (*Crataegus monogyna*); Elder (*Sambucus nigra*); English elm (*Ulmus procera*)	U
H16	Common hawthorn (*Crataegus monogyna*); English elm (*Ulmus procera*)	U
T10	Common ash (Fraxinus excelsior)	U

Damage to Rooting Environment during Construction Activities

2.8 The required RPA for each item is described in the tree survey schedule and is depicted on the Tree Constraints Plan, both found within **Appendix EDP 1**. To ensure appropriate protection is afforded to the roots, the extent of the RPA shall be defined by means of the installation of protective barriers in accordance with BS 5837:2012, the specification for which is included as **Appendix EDP 3** of this report.

2.9 Tree root morphology can be difficult to predict where constraints such as historically ploughed fields can influence root distribution, and the nominal circular root protection areas, in line with BS 5837, must be regarded with some caution. This is discussed further in paragraphs 2.10 and 2.11.

Non-circular root distribution and protection

2.10 Item T13, a mature, category B English oak, lies on an east-to-west boundary between two arable fields. Root development is expected to be limited to the north and south, where the soil has been regularly compacted and perforated by historic ploughing operations and waterlogging.

2.11 The RPA and resulting Construction Exclusion Zone (CEZ) for T13, therefore, diverges from the nominal circular root protection area described in BS 5837:2012, as shown on the Tree Protection Plan (**Plan EDP 1**). This is justified in Section 4.6.2 of BS 5837:2012, which states;

"*The RPA for each tree should initially be plotted as a circle centred on the base of the stem. Where pre-existing site conditions or other factors indicate that rooting has occurred asymmetrically, a polygon of equivalent area should be produced. Modifications to the shape of the RPA should reflect a soundly based arboricultural assessment of likely root distribution*."

Items Impacted by Development Proposals

2.12 Assessment of the Concept Masterplan determines that three items are impacted by the development proposals; these are detailed in **Table EDP 2.2**. All three items are category C, of low quality and value.

Table EDP 2.2: Items Impacted by Development Proposals

Ref. Number	Species	Impact	Category Grading
H1	Common hawthorn (*Crataegus monogyna*); Blackthorn (*Prunus spinosa*)	Partial removal for access	C
H3	Blackthorn (*Prunus spinosa*); Elder (*Sambucus nigra*); English elm (*Ulmus procera*)	Partial removal for internal road alignment	C
H4	Common ash (*Fraxinus excelsior*); Blackthorn (*Prunus spinosa*); Elder (*Sambucus nigra*)	Partial removal for internal road alignment	C

Summary of Tree Losses and Retention

2.13 A summary of the tree losses and retention, based upon the Concept Masterplan, is provided in **Table EDP 2.3**. In this context, the term 'affected' means a retained item where partial removal is required, or encroachment into the RPA of a retained item is required, in order to facilitate the development.

Table EDP 2.3: Summary of Tree Losses and Retention

	Existing	Trees and Groups Lost Due to Proposals	Trees and Groups Affected by Proposals	Trees and Groups Unaffected by Proposals
Category B	3	0	0	3
Category C	11	0	3	8
Totals	**14**	**0**	**3**	**11**

Mitigation

2.14 Existing trees identified for retention on the appended Tree Protection Plan (**Plan EDP 1**) will continue to be managed in accordance with BS 5837:2012. Critically, this requires the implementation of physical protection measures to safeguard the retained trees, including robust protection in the form of a barrier to BS 5837:2012 specification (**Appendix EDP 3**), during the demolition and construction phases. The importance of such matters cannot be overlooked if a successful outcome is to be ensured.

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Section 3
Conclusions

3.1 Masterplanning of the development has been informed by arboricultural recommendations throughout and has sought to retain all trees where possible. The partial loss of three low quality items will be more than compensated for through the provision of new trees and hedgerows, as well as hedgerow reinforcement across the Site. The new planting has potential for greater longevity within the landscape, in accordance with appropriate management, and will increase the species diversity for the Site. Furthermore, addition of new tree and hedgerow stock will contribute towards improving the quality of the Green Infrastructure in the area.

3.2 Existing trees identified for retention on the appended Tree Protection Plan (**Plan EDP 1**) will continue to be managed in accordance with BS 5837:2012. Critically, this requires the implementation of physical protection measures to safeguard the retained trees, including robust protection in the form of a barrier to BS 5837:2012 specification, during the demolition and construction phases. The importance of such matters cannot be overlooked if a successful outcome is to be ensured.

3.3 A suitably worded condition can secure any mitigation measures which would be required to minimise harm and ensure safe, long-term retention to trees.

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Glossary

Arboricultural Impact Assessment	Study, undertaken by an Arboriculturist, to identify, evaluate and possibly mitigate the extent of direct and indirect impacts on existing trees that may arise as a result of the implementation of any site layout proposal.
Arboricultural Method Statement	Methodology for the implementation of any aspect of development that has the potential to result in loss of, or damage to a tree.
Construction Exclusion Zone	Area based on the RPA (in m^2), identified by an Arboriculturist, to be protected during development, including demolition and construction work, by the use of barriers, and/or ground protection fit for purpose to ensure the successful long-term retention of a tree.
Detailed Investigation	During a visual inspection, a tree may be identified as requiring further detailed investigation. Examples of further assessment can include invasive boring tests, Picus reports, climbing inspections or root scans.
Root Protection Area (RPA)	Layout design tool indicating the area surrounding a tree that contains sufficient rooting volume to ensure the survival of the tree, shown in plan form in m^2.
Services	Any above ground and piped and/or ducted underground infrastructure including water main, electricity supply, gas supply, fibre-optic utilities, telecommunications cabling, storm and foul water drainage, including temporary storage for run-off, pumping stations, interceptors and other allied buried structures.
Special Engineering	Design of a structure with the physiological requirements of trees as a priority.
Tree Constraints Plan	Plan prepared by an Arboriculturist for the purposes of layout design showing the RPA and representing the effect that the mature height and spread of retained trees will have on layouts through shade, dominance, etc.
Tree Protection Plan	Scale drawing prepared by an Arboriculturist showing the finalised layout proposals, tree retentions, and tree and landscape protection measures detailed within the arboricultural method statement (AMS), which can be shown graphically.
Veteran Trees	A tree that, by recognised criteria, shows features of biological, cultural or aesthetic value that are characterised of, but not exclusive to, individuals surviving beyond the typical age range of the species concerned.

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Appendix EDP 1
Arboricultural Technical Note
(edp4685_r002)

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Land North of Barkby Road, Syston
Technical Note in Respect of Arboriculture
edp4685_r002e

1. Introduction

1.1 The Environmental Dimension Partnership Ltd (EDP) has been commissioned by Taylor Wimpey (UK) Ltd (the applicant) to undertake a BS 5837:2012 *Trees in Relation to Design, Demolition and Construction* compliant survey of the trees in relation to the proposed development of Land North of Barkby Road, Syston (hereafter referred to as 'the site').

1.2 EDP is an independent environmental planning consultancy with offices in Cirencester, Cardiff and Cheltenham. The practice provides advice to private and public sector clients throughout the UK in the fields of landscape, ecology, archaeology, cultural heritage, arboriculture, rights of way and masterplanning. Details of the practice can be obtained at our website (www.edp-uk.co.uk).

1.3 The Site is located on the south-eastern urban edge of the town of Syston and lies within the administrative boundary of Charnwood Borough Council (CBC). It consists of two arable fields bounded by hedgerows. the site is bordered by further agricultural land to the north; the Queenborough Road runs the length of the eastern boundary; Barkby Road runs the length of the southern boundary; and residential properties lie to the east.

2. Methodology and Limitations

2.1 The methodology adopted for this survey is based on guidelines set out in BS 5837:2012 *Trees in Relation to Design, Demolition and Construction*, especially Section 4.4, 'Tree Survey'. Site trees and other significant vegetation are as noted on **Annex EDP 1**. This is derived from the topographic survey data included as **Annex EDP 2**. All surveyed items are detailed in **Schedule EDP 1** (**Annex EDP 3**). No other trees are covered by this survey.

2.2 All trees have been visually inspected from ground level unless otherwise stated, with no climbing or further detailed investigative tests being undertaken. The comments on their condition are based on observable factors present at the time of inspection. All measurements are metric and have been recorded in accordance with the measurement conventions set out in Section 4.4.2.6 of BS 5837:2012.

2.3 Any recommendations given regarding longer-term management are made on the basis of optimising the life expectancy of site trees, given their current situation and any effects that may result from the development proposals.

2.4 **Schedule EDP 1** provides information about the following factors in accordance with Section 4.4.2.5 of BS 5837:2012:

- Sequential reference number (recorded on **Annex EDP 1**);
- Species;
- Height;
- Stem diameter;
- Branch spread;
- Existing height above ground level;
- Life stage;
- Physiological condition;
- Structural condition;
- Preliminary management recommendations;
- Estimated remaining contribution;
- Category grading; and
- Tree works priority codes.

Limitations

2.5 Due to the changing nature of trees and other site circumstances, this report and any recommendations made are limited to a 24-month period from the survey date. Any alterations to the site or the development proposals could change the current circumstances and may invalidate this report and any recommendations made.

2.6 Trees are dynamic structures that can never be guaranteed 100% safe; even those in good condition can suffer damage under average conditions. Regular inspections can help to identify potential problems before they become acute.

2.7 A lack of recommended work does not imply that a tree is safe and likewise, it should not be implied that a tree will be made safe following the completion of any recommended work.

2.8 The subject trees have not been tagged for identification purposes.

3. Aims and Objectives

3.1 The tree constraints information contained within this technical note will be used to inform the masterplanning of the site and, in turn, the Arboricultural Impact Assessment, which will be submitted in support of the Outline Application.

4. Overview of Tree Stock

4.1 The survey has identified four individual trees, two groups of trees and 13 hedgerows, totalling 19 items. Of these 19 items, three have been categorised as B, of moderate quality; and 11 have been categorised as C, of low quality. In addition, five items have been categorised as U and due to their impaired condition are considered unsuitable for retention, irrespective of development.

4.2 An illustrative summary of the species diversity, age distribution and grading categorisation for the site is provided in **Annex EDP 4**.

4.3 All surveyed items are as noted in **Annex EDP 1** and detailed in **Schedule EDP 1** (**Annex EDP 3**).

5. Statutory Protection

Tree Preservation Orders and Conservation Areas

5.1 Review of CBC's online resource confirms that there are no Tree Preservation Orders (TPO) registered against this Site, nor does the site lie within a designated conservation area.

6. Site Constraints

6.1 All off-site items indicated in **Annex EDP 1** remain outside of the direct control of the scheme, however, their above- and below-ground constraints will need to be considered in during the design process.

6.2 The required RPA for each item is as described in **Schedule EDP 2** (**Annex EDP 5**) and is depicted in **Annex EDP 1**. To ensure appropriate protection is afforded to the roots, the extent of the RPA shall be defined by means of the installation of protective barriers in accordance with the recommendations given in Section 6.2 of BS 5837:2012. The extent of this enclosed area, known as the Construction Exclusion Zone (CEZ), will be depicted on a Tree Protection Plan, to follow on with the Arboricultural Impact Assessment.

7. Conclusion

7.1 Of the items surveyed, three items have been identified as category B, of moderate quality and value, and should be prioritised for retention due to their condition, age and retention span.

7.2 The arboricultural constraints information provided with this Technical Note will feed into the proposed masterplanning for the site and inform the site Layout.

7.3 Once the site Layout has been fixed, an Arboricultural Impact Assessment and Tree Protection Plan will be undertaken to support the Outline Application and to ensure the safe, long-term retention of the arboricultural items for the Site.

Annex EDP 1
Tree Constraints Plan
(edp4685_d010b 25 June 2018 LB/LM)

Site Boundary

T1 Tree/Group Number
Tree/Group Canopy
Tree Stem
Root Protection Area

Category A: Trees of high quality and value

Category B: Trees of moderate quality and value

Category C: Trees of low quality and value

Category U: Trees of poor quality and value

client

Taylor Wimpey (UK) Ltd

project title

Land North of Barkby Road, Syston

drawing title

Annex EDP 1: Tree Constraints Plan

date	25 JUNE 2018	**drawn by**	LB
drawing number	edp4685_d010b	**checked**	LM
scale	Refer to scale bar	**QA**	GY

the environmental dimension partnership

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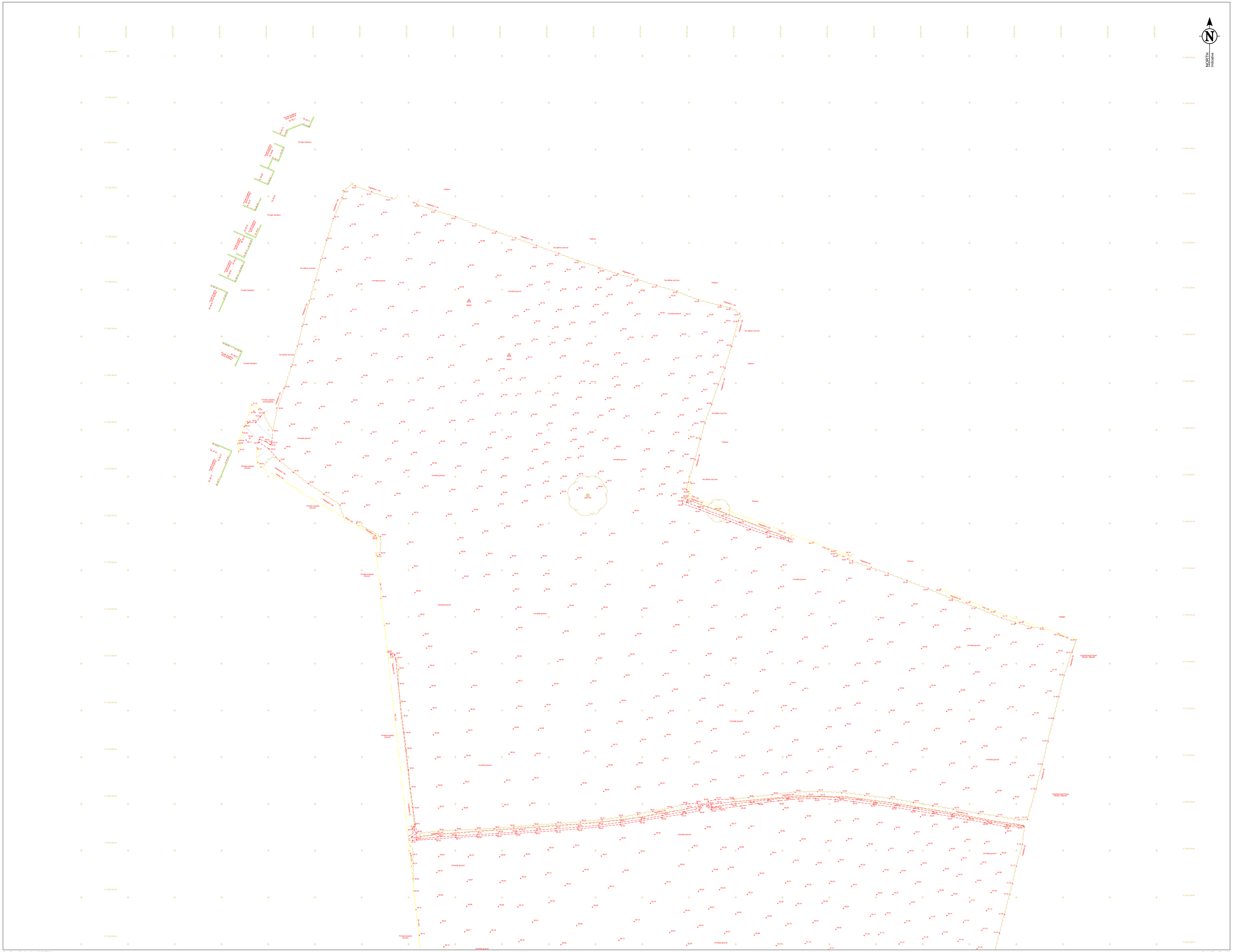
Cirencester 01285 740427 Cardiff 02921 671900 Shrewsbury 01939 211190

Annex EDP 2
Topographical Survey



Original Sheet Size A0H

TOPOGRAPHICAL & MEASURED BUILDING SURVEYS

ABBREVIATIONS & SYMBOLS

AH	Arch Head Height	FH	Fire Hydrant	RSJ	Rolled Steel Joist
AR	Assumed Route	FBD	Floor Board Direction	SI	Sign Post
AV	Air Valve	FH	Fire Hydrant	SP	Arch Spring Point Height
BB	Belisha Beacon	FL	Floor Level	SV	Stop Valve
BH	Bore Hole	FP	Flag Pole	SW	Surface Water
BL	Bed Level	FW	Foul Water	SY	Stay
BO	Bollard	GG	Gully Grate	Tac	Tactile Paving
BrP	Brace Post	GV	Gas Valve	TC	Telecom Cover
BS	Bus Stop	HH	Head Height	TH	Trial Pit
BU	Bush	IC	Inspection Cover	THL	Threshold Level
B/W	Barbed Wire Fence	IL	Invert Level	TL	Traffic Light
BX	Box (Utilities)	I/R	Iron Railings	ToW	Top of Wall
C/B	Close Board Fence	KO	Kerb Outlet	TP	Telegraph Pole
CH	Cill Height	LP	Lamp Post	TV	Cable TV Cover
CL	Cover Level	MH	Manhole	UB	Universal Beam
C/L	Chain Link Fence	MP	Marker Post	UC	Unknown Cover
C-Lev	Ceiling Level	NB	Name Board	UK	Unknown Tree
Col	Column	OHL	Overhead Line (approx)	USB	Under Side Beam
C/P	Chestnut Paling Fence	Pan	Panel Fence	UTL	Unable To Lift
CR	Cable Riser	PB	Post Box	VP	Vent Pipe
DC	Drainage Channel	PM	Parking Meter	WB	Waste Bin
DH	Door Head Height	PO	Post	WH	Weep Hole
DP	Down Pipe	P/R	Post & Rail Fence	WL	Water Level
DR	Drain	P/W	Post & Wire Fence	WM	Water Meter
EL	Eaves Level	P/Wall	Partition Wall	WO	Wash Out
EP	Electric Pole	RE	Rodding Eye	(x.xx)	Floor to Ceiling Height
ER	Earth Rod	RL	Ridge Level		
ET	EP+Transformer	RP	Reflector Post	(x.xx)F/C	Floor to False Ceiling Ht
FB	Flower Bed	RS	Road Sign		
FBD	Floor Board Direction	RSD	Roller Shutter Door	△	Survey Control Station

DRAWING NOTE
Topographical Surveys

Trees are drawn to scale showing the average canopy spread. Descriptions and heights should be used as a guide only.

All building names, descriptions, number of storeys, construction type including roof line details are indicative only and taken externally from ground level.

All below ground details including drainage, voids and services have been identified from above ground and therefore all details relating to these features including; sizes, depth, description etc will be approximate only. All critical dimensions and connections should be checked and verified prior to starting work.

Detail, services and features may not have been surveyed if obstructed or not reasonably visible at the time of the survey.

Measured Building Surveys

Measurements to internal walls are taken to the wall finishes at approx 1m above the floor level and the wall assumed to be vertical.

Cill heights are measured as floor to the cill and head heights are measured from cill to the top of window.

General

The contractor must check and verify all site and building dimensions, levels, utilities and drainage details and connections prior to commencing work. Any errors or discrepancies must be notified to Survey Solutions immediately.

The accuracy of the digital data is the same as the plotting scale implies. All dimensions are in metres unless otherwise stated.

The survey control listed is only to be used for topographical surveys at the stated scale. All control must be checked and verified prior to use.

Do not scale from this drawing.
The coordinate system established for this survey is related to Ordnance Survey (OS) national grid at a single point using Smartnet, then orientated to grid north with a scale factor of 1.000

The level datum established for this survey is related to Ordnance Survey (OS) using GPS Smartnet.

To avoid discrepancies any coordinated data used in conjunction with this survey must be derived directly from this control data.

CONTROL CO-ORDINATES

STATIONS	EASTINGS	NORTHINGS	LEVEL	DESCRIPTION
MA01	311271.97	463683.04	62.32	Peg & Pk nail
MA02	311295.17	463665.83	62.64	Peg & Pk nail
ST01	310979.09	463624.00	60.56	Pk nail
ST02	311006.47	463630.77	60.65	Pk nail
ST03	310962.16	463672.77	61.02	Pk nail
ST04	310934.62	463862.08	64.08	Peg & Pk nail

REV	DESCRIPTION	DRAWN	APPR	DATE

SURVEY SOLUTIONS
Ipswich Coventry Yeovil Norwich Perth Nottingham Brentwood
Tel No: 0845 0405 969
www.survey-solutions.co.uk
Fax No: 0845 0405 970
enquiries@survey-solutions.co.uk
LAND SURVEYING BUILDING SURVEYING UNDERGROUND SURVEYING

PROJECT TITLE
BARKBY LANE
SYSTON, LE7 2AF

DRAWING DETAIL
TOPOGRAPHICAL SURVEY
Sheet 2 of 2

CLIENT				SCALE
TAYLOR WIMPEY STRATEGIC LAND				1:500
SURVEYOR	SURVEY DATE	CHECKED BY	APPROVED BY	DWG STATUS
MA	10/1/2018	PDS	PDS	FINAL
DRAWING NUMBER			REVISION	ISSUE DATE
21105cv-02				11/1/2018

Annex EDP 3
Tree Survey Key and Schedule EDP 1

Sequential Reference Number	T - Individual specimen; G - Group, Trees that form cohesive arboricultural features either aerodynamically, visually or culturally; H - Linear group of specimens that form a hedge or boundary; and W - A larger group or area of trees that should be regarded as a single woodland unit
Species	Common English names are used wherever possible for simplicity
Height	An approximation of height (in metres) is provided for the highest point of the tree**.**
Stem Diameter	This is the measurement of stem diameter in millimetres taken in accordance with Annex C of BS 5837:2012.
Branch Spread	This is taken at four cardinal points, with a stated value in metres to enable an accurate representation of the crown, as shown on **Annex EDP 1**.
Existing Height Above Ground Level	An approximation of height (in metres) of crown clearance above adjacent ground level.
Life Stage	There are six classes to which trees are assigned: Young; Semi Mature; Early Mature; Mature; Over Mature; and Veteran.
Physiological Condition	An indication of the tree's physiological condition is represented and classed as good, fair, poor or dead, this is informed by the following: Canopy Density: It should be taken that, unless otherwise stated with each individual entry, the canopy density of the trees is typical of the species; and Leaf Size and Colouration: It should be taken that, unless otherwise stated with each individual entry, leaf size and colouration is typical of the species.
Structural Condition	Additional notes are provided giving details of the tree's structural condition. This is informed by "the presence of any decay and physical defect[1]".

[1] BS 5837:2012 Section 4.4.2.5

Preliminary Management Recommendations	These are made on the basis of optimising the life expectancy of site trees, given their current situation and that which may result from the development proposals. The survey process pays particular attention to implications for life and/or property; defects recorded under the structural condition have the necessary mitigation measures proposed within this section of the schedule**.**
Estimated Remaining Contribution	The definitions of the terms used are as follows and describe the estimated length of time (in years) over which the tree can be expected to make a safe contribution to local amenity: Less than 10; 10+; 20+; and 40+.
Category Grading	Trees have been assigned 'U' or Category Grading 'A' to 'C' in accordance with the Cascade Chart given in BS 5837:2012.
Tree Works Priority Codes	Priority codes from 1 to 3 have been given for trees requiring work. The definition of the codes used is as follows: Priority 1: Work that should be undertaken urgently due to the identification of a potential hazard; Priority 2: Work that should be undertaken prior to any works commencing on site; and Priority 3: Work that should be undertaken following the completion of the development.

Annex EDP 4
Illustrative Summary of Survey Data

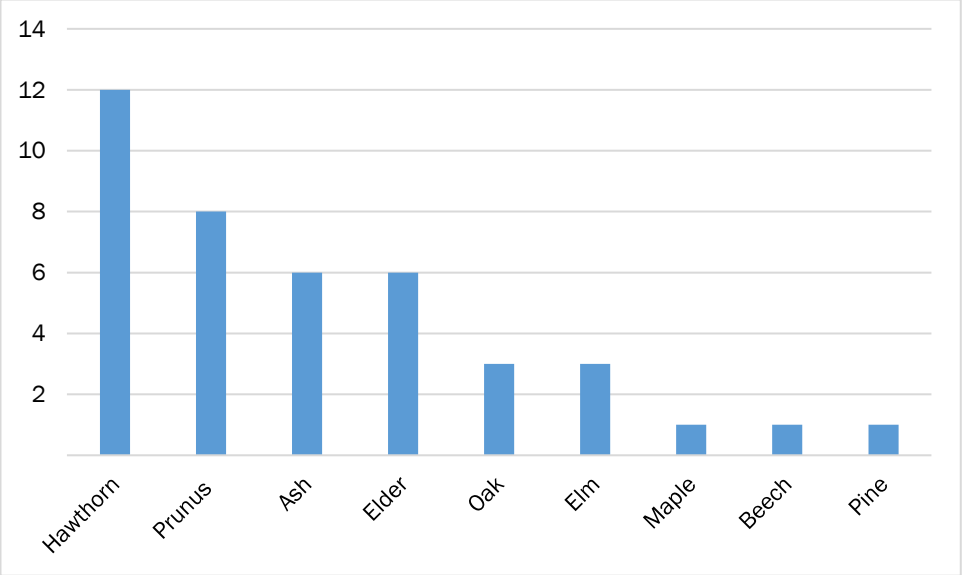


Figure EDP 4.1 Species Diversity

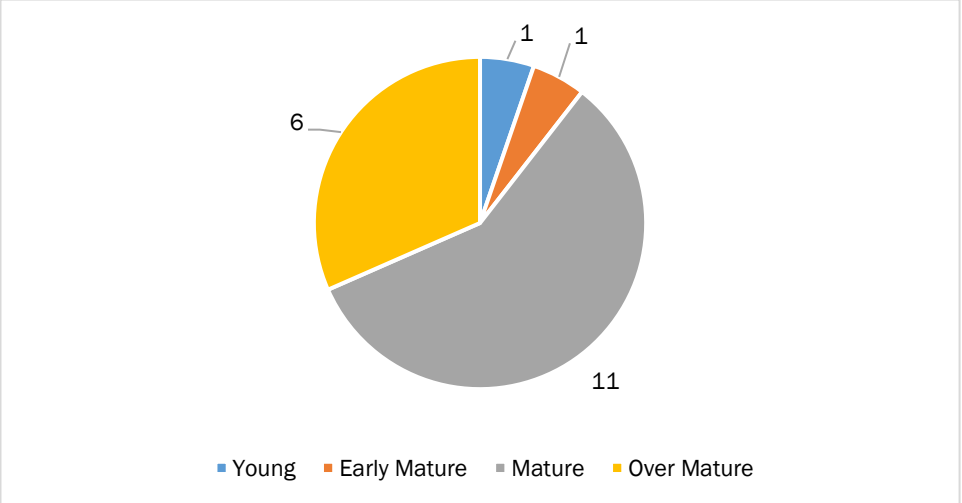


Figure EDP 4.2: Age Distribution

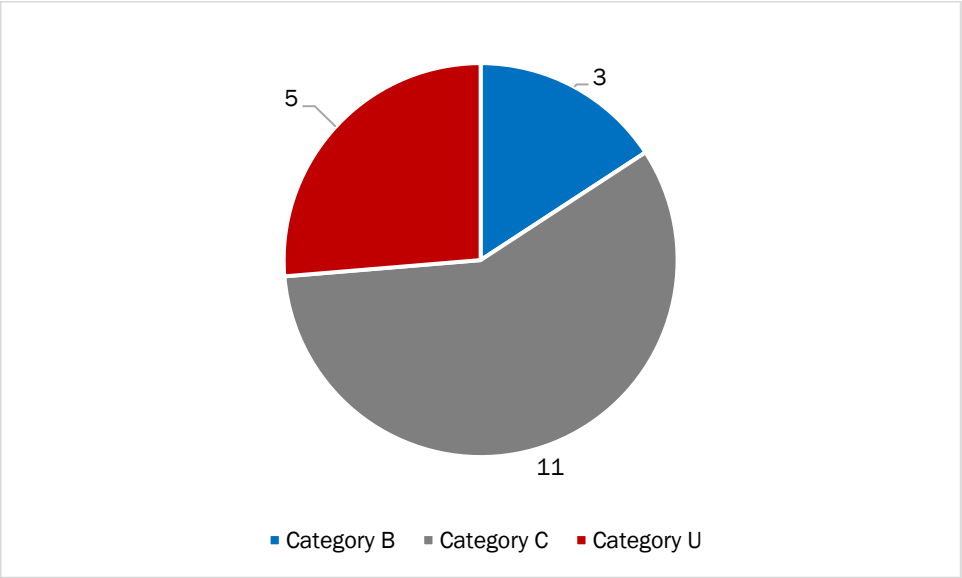


Figure EDP 4.3: Category Grading

Annex EDP 5
Schedule EDP 2
Tree Constraints Schedule

Reference No.	Cat Grading	No of stems	RPA Radius (m)	RPA Area m²	Ultimate Height (m)	Ultimate Crown Spread (m)			
						N	E	S	W
H1	C2	1	1.2	4.5	2	1	1	1	1
H2	C2	1	1.8	10.2	5	1	1	1	1
H3	C2	1	1.8	10.2	2	1	1	1	1
H4	C2	1	1.8	10.2	2	1	1	1	1
H5	C2	1	1.2	4.5	2	1	1	1	1
H6	C2	1	1.2	4.5	2	1	1	1	1
H7	C2	1	1.2	4.5	3	1	1	1	1
T8	B1	1	4.0	49.3	15	5	5	5	5
H9	C	1	1.8	10.2	5	1	1	1	1
T10	U	1	11.4	408.3	11	2	4	5	5
H11	C	1	1.2	4.5	1	1	1	1	1
H12	U	1	1.2	4.5	1	1	1	1	1
T13	B	1	11.4	408.3	23	11	12	10	12
H14	U	1	1.2	4.5	1	1	1	1	1
H15	U	1	1.2	4.5	1	1	1	1	1
H16	U	1	1.2	4.5	3	1	1	1	1
T17	C1	1	1.2	4.5	6	2	2	2	2
G18	C	1	1.8	10.2	8	1	1	1	1
G19	B2	1	2.4	18.1	11	2	2	2	2

Appendix EDP 2
Concept Masterplan Drawing Number P20-3155 003 Sheet No: 1 Rev: F

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KEY

- Site Boundary
  8.29 Ha
- Residential Area
  5.1 Ha = up to 195 dwellings
- Public Open Space
- Local Equipped Area of Play
  400m2 with a 20m buffer
- Existing Trees & Vegetation
- Proposed Trees & Vegetation
- Indicative Attenuation Basins
- Primary Route
- Secondary Route
- Lanes
- Shared Private Drives
- Public Right of Way
  Ref: J37/1
- Pedestrian Links
- Views to St Mary's Church
- 10m Landscape Planting Buffer
- Proposed Footpath Link

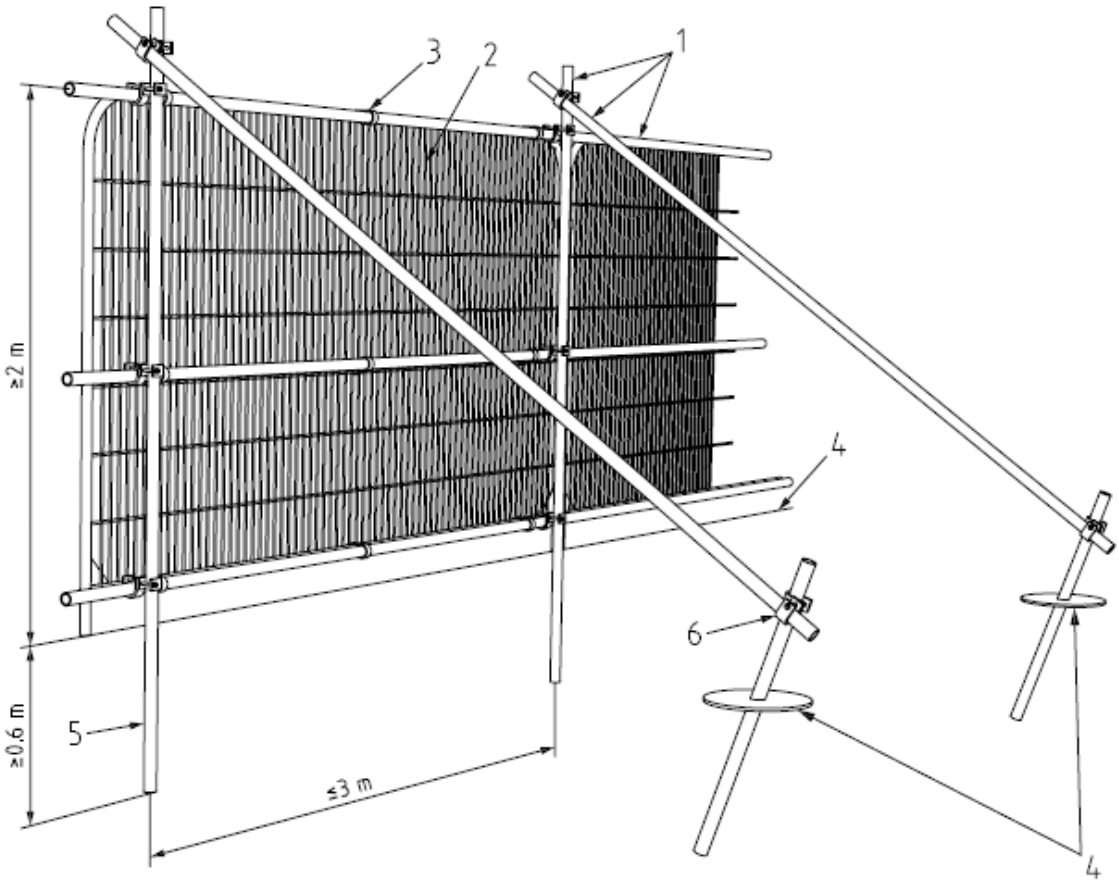
0 25 50 m

Land North of Barkby Road, Syston, Leicestershire - **Concept Masterplan**

| Drawn by: LJE | Approved by: PS | Date: 28/06/21 | Scale: 1:1250 @ A2 | DRG: P20-3155 003 Sheet No: 1 Rev: F | Client: Taylor Wimpey |

Pegasus Design

Appendix EDP 3
Tree Protection Barrier on Scaffold 2.0m High
(Extract from BS 5837:2012, Figure 2 'Protective Barrier')



Key

1 Standard scaffold poles
2 Heavy gauge 2 m tall galvanized tube and welded mesh infill panels
3 Panels secured to uprights and cross-members with wire ties
4 Ground level
5 Uprights driven into the ground until secure (minimum depth 0.6 m)
6 Standard scaffold clamps

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Plan

Plan EDP 1 Tree Protection Plan
(edp4685_d031b 02 November 2021 GY/BW)

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N

Site Boundary

T1 Tree/Group Number
Tree/Group Canopy
Tree Stem
Root Protection Area

Category A: Trees of high quality and value

Category B: Trees of moderate quality and value

Category C: Trees of low quality and value

Category U: Trees of poor quality and value

Trees to be Removed

Protective Fencing in accordance with BS 5837:2012

Default specification for protective barrier **BRITISH STANDARD**

Key
1 Standard scaffold poles
2 Heavy gauge 2m tall galvanized tube and welded mesh infill panels
3 Panels secured to uprights and cross-members with wire ties
4 Ground level
5 Uprights driven into the ground until secure (minimum depth 0.6m)
6 Standard scaffold clamps

0 10 20 30 40 50 m

client
Taylor Wimpey (UK) Ltd

project title
Land North of Barkby Road, Syston

drawing title
Tree Removal and Retention Plan

date	**02 NOVEMBER 2021**	drawn by	**GY**
drawing number	**edp4685_d031b**	checked	**BW**
scale	**1:1,750 @ A3**	QA	**RB**

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