

# Ascerta

Landscape, Arboricultural & Ecological Solutions  
for the Built Environment

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## Arboricultural Impact Assessment

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Lathom Pastures  
Phase 2  
Skelmersdale

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Ref: P.1280.19

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December 2019

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A	18 <sup>th</sup> November 2020	BHNW118 Lathom Pastures Phase 2 rev PL01 rev A

## Ascerta

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**P.1280.19**

**Arboricultural Impact Assessment**

**Lathom Pastures  
Phase 2  
Skelmersdale**

**For**

**Bellway Homes Limited (North West)  
2 Alderman Road  
Liverpool  
L24 9LR**

**23<sup>rd</sup> December 2019  
(Rev A 18<sup>th</sup> November 2020)**

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<b>Technical Review</b>	Rob Armitage
<b>QA Review &amp; Approval</b>	Danielle Wood - Office Manager

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**Appendix 1      Tree Data Tables in accordance with Table 1 of BS5837: 2012**

**Appendix 2      Drawing P. 1280.19.01 *Tree Survey and Tree Removal Plan*  
Drawing P. 1280.19.02 *Tree Protection Measures***

## 1.0 Introduction

- 1.1 Ascerta has been instructed to carry out a survey of the trees within and immediately adjacent Lathom Pastures (Phase 2), Skelmersdale and to assess the potential impact of the development as proposed on trees within / adjacent the site in accordance with British Standard 5837: 2012 *Trees in relation to design, demolition and construction – Recommendations*.
- 1.2 The site was visited on the 11<sup>th</sup> and 20<sup>th</sup> December 2019 by Helen Sullivan, a competent and qualified arboriculturist with experience of the UK and European arboricultural and landscape industries within the context of the planning system. During the site visits, a survey was carried out of the trees growing both on and immediately adjacent the site to the standards contained within BS5837: 2012.
- 1.3 This report presents the results of the survey, provides an assessment of the impact of the development and includes recommendations for further actions, where applicable, to mitigate any potentially negative effects of the development on tree cover within the local landscape.
- 1.4 Our client's objective is to develop the site by the construction of 200 residential units.

## 2.0 Planning Policy & Relevant Legislation

- 2.1 The site lies within the West Lancashire Borough Council administrative area and is subject to the policies contained within its Local Plan. These have been taken into account when writing this report.
- 2.2 Checks made with the Local Planning Authority via email on 23<sup>rd</sup> December 2019 indicate that the woodland to the north of the site boundary (W1 of our tree survey) is subject to Tree Preservation Order *West Lancashire Borough Council No.31, (2004)*. The site is not located within a Conservation Area. In advance of the commencement of any works to trees within or adjacent the site, those instructing and proposing to carry out such works should satisfy themselves that all appropriate consents are in place to prevent potential breach of legislation.
- 2.3 British Standard 5837: 2012 *Trees in relation to design, demolition and construction – Recommendations* provides current recommendations and guidance on the relationship between trees and design, demolition and the construction processes. It sets out the principles and procedures to be applied to achieve a harmonious and sustainable relationship between trees and structures.

## **2.0 Planning Policy & Relevant Legislation (Continued)**

- 2.4** Notwithstanding the aforementioned policies and legislation, consideration should also be given to any impacts from the proposed development in respect of the Hedgerow Regulations 1997 and the Forestry Act 1967 (and specifically the potential need for a felling licence), as well as existing UK and European legislation relating to wildlife and nature conservation.
- 2.5** In accordance with the Hedgerow Regulations 1997, 'important' hedgerows (in the context of the Regulations) should not be removed without a Hedgerow Removal Notice issued by the relevant Local Authority, unless that removal is subject to an appropriate consent under the Town and Country Planning Act 1990. Appropriate checks should be made in advance of the commencement of works to hedgerows to establish the importance or otherwise of the hedgerow and whether there is a requirement for a Hedgerow Removal Notice distinct from any formal planning consent to be granted.
- 2.6** The revised National Planning Policy Framework, updated on 19<sup>th</sup> February 2019, sets out the government's planning policies for England and Wales and how these are expected to be applied and has been considered within this report. This revised Framework replaces the previous National Planning Policy Framework published in March 2012 and revised in July 2018. It provides a Framework within which locally prepared plans for housing and other development can be designed and produced.

## **3.0 Survey & Survey Methodology**

- 3.1** We have been supplied with a digital copy of the topographical map for the site, which satisfies the relevant part of section 4.2 of BS5837: 2012. Features of arboricultural or landscape interest that have been excluded from the original plan (for example trees on or located off site but within a distance from the boundary of the site equal to or less than 12 times the stem diameter of that tree) have been added to the plan manually.
- 3.2** Six individual trees (T1-T6), ten groups of trees (G1-G11), one woodland (W1) and seven hedges (H1-H7) were recorded during our survey, the details of which can be found within Appendix 1 to this report and cross referenced with drawing P.1280.19.01 *Tree Survey and Tree Removal Plan*.
- 3.3** Our survey of the trees within and adjacent the site was carried out by a qualified and competent arboriculturist in accordance with sections 4.4 and 4.5 of BS5837: 2012 on the 11<sup>th</sup> and 20<sup>th</sup> December 2019 during rainy weather conditions. Those trees surveyed have been numbered sequentially and the details required by the Standard, including a categorisation in accordance with section 4.5 and Table 1 of the Standard, have been recorded within the Tree Data Tables at Appendix 1.
- 3.4** Where trees are surveyed that require immediate attention, for example to abate a nuisance, prevent a serious hazard to life or property, or are affected by a pathogen or pest that could cause widespread damage unless it is controlled, notification will be issued to the relevant person or organisation such that appropriate action can be taken.

## 4.0 Potential Arboricultural Impacts

4.1 Table 1 below shows the trees that will need to be removed as part of the development of the site.

Table 1: Trees to be Removed

<u>T. No.</u>	<u>Species</u>	<u>HT (m)</u>	<u>Stem DBH (mm)</u>	<u>Cat</u>	<u>Reason</u>
				<u>Grade</u>	
H3 (in part)	Hawthorn Ash	2.5	#75- 170	B1	Remove (in part) to facilitate development proposals
H4 (in part)	Beech	2.5-3	#75- 150	B1	Remove small section to accommodate new wall.
T3	Goat Willow	9.0	<400	C1	Remove to facilitate development proposals
T5	Birch	8.0	230	C1	Remove to facilitate development proposals
G2	Sycamore	10.0	<450	C1	Remove to facilitate development proposals
G3	Birch	10.0	<300	C1	Remove to facilitate development proposals
T6	Birch	10.0	200+ 310	C1	Remove to facilitate development proposals
G4	Oak	8.0	250- 300	C1	Remove to facilitate development proposals
H6 (in part)	Hawthorn Blackthorn	4.0	#50- 150	B2	Remove specified sections to facilitate development proposals
G5	Norway Maple Alder Cypress Sycamore Poplar Hawthorn Elder	15.0	#200- 420	C2	Remove to facilitate development proposals
G6	Sycamore London Plane Elm	13.0	#300- 500	C2	Remove to facilitate development proposals
G7 (in part)	Oak Birch, Sycamore Hawthorn	15	#150-450	A1/2	Remove specified trees to facilitate new footpath and swale.
G8	Goat Willow	9.0	#75- 300	C2	Remove to facilitate development proposals
G9 (in part)	Sycamore	11	#150- 300	C1	Remove specified trees to facilitate development proposals.
H7 (in part)	Hawthorn Blackthorn Elder	3	#50- 200	B2	Remove specified section to accommodate new entrance road and footpath.
G11 (in part)	Goat Willow Grey Willow Oak Birch Field Maple Sycamore Scots Pine Cherry	19.0	<75- 400	A1/2	Remove specified trees to facilitate new footpath and swale.

## 4.0 Potential Arboricultural Impacts (Continued)

4.2 Table 2 below shows the trees that have the potential to be negatively impacted by the development proposals.

Table 2: Summary of Potential Impacts to Retained Trees

<u>T. No.</u>	<u>Species</u>	<u>HT (m)</u>	<u>Stem DBH (mm)</u>	<u>Cat</u>	<u>Potential Impact</u>
				<u>Grade</u>	
T2	Beech	8.0	300+ 300	B1	Removal of existing hard standing and road improvements / re-surfacing
H4	Beech	2.5-3.0	#75- 150	B1	Proposed foundations of Buildings / Plots adjacent root protection areas
G7 (in part)	Oak Birch, Sycamore Hawthorn	15	#150-450	A1/2	The installation of the new swale and footpaths.
G10	Lime Sycamore	13.0	<370	B2	Proposed new roads within root protection areas. Proposed foundations of Buildings / Plots adjacent and within root protection areas
G11	Goat Willow Grey Willow Oak Birch Field Maple Sycamore Scots Pine Cherry	19.0	<75- 910	A1/2	The installation of the new swale and footpaths. Proposed foundations of Buildings / Plots adjacent and within root protection areas.
H6	Hawthorn Blackthorn	4.0	0.60- 1.80	B2	Proposed Areas of Hard Standing adjacent root protection areas

## 5.0 Tree Protection Measures

5.1 Based on the proposed layout and those trees proposed for retention, Table 3 below provides suitable protection measures/ mitigation to minimise the potential negative impacts to retained trees as stated at 4.2.

Table 3: Potential Impacts to Retained Trees & Proposed Protection Measure / Mitigation

	<u>Potential Impact</u>	<u>Affecting</u>	<u>Protection Measure / Mitigation</u>	<u>Description/ Specification and Procedure</u>
1	Removal of Existing Hard Standing	T2	<ul style="list-style-type: none"> <li>Shallow excavations</li> </ul>	Excavations only permitted to the depth of the existing hard standing sub-base to retain any potential roots beneath this surface.
2	Proposed Areas of Hard Standing	G7, G11 & H6	<ul style="list-style-type: none"> <li>Shallow excavations</li> </ul>	Excavations only permitted to remove the surface grass / vegetation to create a suitable level for the new paths.
			<ul style="list-style-type: none"> <li>Cell-web to be used</li> </ul>	Sections of new footpaths hatched blue to incorporate a suitable plastic permeable paving grid (Cell-web or similar) and be constructed at existing site levels to avoid root severance of adjacent trees.
			<ul style="list-style-type: none"> <li>Root pruning</li> </ul>	Any roots exposed during the installation process to be pruned cleanly back to the soil surface as promptly as possible to avoid prolonged exposure.
3	Proposed Swales	G7 and G11	<ul style="list-style-type: none"> <li>Root pruning</li> </ul>	Any roots exposed during the installation process to be pruned cleanly back to the soil surface as promptly as possible to avoid prolonged exposure.
4	Proposed Buildings/ Plots	H4, G10 & G11	<ul style="list-style-type: none"> <li>Supervised excavations</li> </ul>	Project arboriculturist to attend site prior to the commencement of any excavations to oversee the works to ensure no significant root damage occurs.
		H4, G10 & G11	<ul style="list-style-type: none"> <li>Root pruning</li> </ul>	Project arboriculturist to oversee works and prune roots as necessary.
		H4, G10 & G11	<ul style="list-style-type: none"> <li>Fencing attached to scaffolding</li> </ul>	Tree protection fencing to be attached to elevation scaffolding where specified to prevent vehicular/ plant access within the root protection areas.
5	Shading and Nuisance	G11	<ul style="list-style-type: none"> <li>Production of a thorough pruning schedule</li> </ul>	Detailed pruning schedule for individual trees to be provided to alleviate shading/ nuisance.



**5.2** On the basis of the above and the contents of this report, it is considered appropriate that an Arboricultural Method Statement be prepared to demonstrate how trees proposed for retention can be suitably safeguarded. The Arboricultural Method Statement can be secured by way of an appropriately worded planning condition attached to the consent for the development and should be adopted as a control document by site personnel.

## **5.0 Tree Protection Measures (Continued)**

**5.3** In addition to the erection of protective fencing, the attached drawings show areas where it would be beneficial to agree a tree protection method statement between the project arboriculturist, design & construction teams and the local planning authority tree officer. The method statement will need to address and make allowance for the following:

- All forms of access required to the site;
- Site cabins and storage areas;
- Proposed parking for site personnel;
- Phasing of works;
- Space required for excavations (including foundation excavations);
- Any required special construction techniques (for example provision of porous surfaces);
- The location and construction methodology for installation of services in close proximity to retained trees & hedges;
- Any changes in ground levels and any resulting requirement for retaining structures;
- Proposed root zone enhancement measures;
- Working space for cranes, plant and scaffolding; and
- Management of waste products within the site.

**5.4** Over and above the physical tree protection measures that should form the basis for the tree protection method statement, the following details should be provided within the Arboricultural Method Statement:

- Protection of the soil structure within the proposed planted areas (where applicable);
- Planting operations within the root protection areas of retained trees;
- Any required / additional precautions outside of construction exclusion zones in relation to the treatment & landscaping of garden or open space areas;
- System of arboricultural site monitoring / schedule of site visits and resulting actions.

## **6.0 Conclusions & Recommendations**

- 6.1** The proposals to develop the site by the construction of 200 residential units will require the removal of H3 (in part), H4 (in part), T3, T5, G2, G3, T6, G4, H6 (in part), G5, G6, G7 (in part), G8, G9 (in part), H7 (in part) and G11 (in part).
- 6.2** In the absence of suitable controls, the development also has the potential to have an indirect impact on T2, H4, G7 (in part), G10, G11 and H6 that are proposed for retention as part of the development of the site. However, suitable protection measures as listed in Table 3 and summarised below will ensure trees are sufficiently protected throughout the entire course of the development.
- 6.3** Protection of retained trees from the impacts of the development proposals can be provided by:
- The erection of protective fencing in advance of the commencement of the development in the locations shown;
  - The agreement, in advance of the commencement of the development, together with the implementation during the construction phase, of an Arboricultural Method Statement;
  - The use of cell-web, or a similar plastic permeable paving grid for new footpaths located within root protection areas of trees within G7 and G11; and
  - Arboricultural site supervision during construction works within root protection areas of retained trees where specified.
- 6.4** Compensation for the impact of the development, together with landscape and biodiversity enhancements can be achieved by way of the following:
- The planting of trees, shrubs and where applicable hedges as part of a comprehensive landscape scheme to replace any vegetation lost and to integrate the development into the wider landscape; and
  - The use of a mixture of native and ornamental species within planting schemes, where those species are suited to the site and local landscape.

## 7.0 References

Department for Communities and Local Government (July 2018) *National Planning Policy Framework*;

British Standard 5837: 2012 *Trees in relation to design, demolition and construction – Recommendations*;

National Joint Utilities Group Publication *Guidelines for the Planning, Installation and Maintenance of Utility Apparatus in Proximity to Trees – Volume 4*.

# Ascerta

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# Appendix 1

Site:	<b>Lathom Pasture, Skelmersdale</b>	Surveyor:	<b>HM</b>
Client:	<b>Bellway Homes (North West)</b>	Survey Date:	<b>11<sup>th</sup> &amp; 20<sup>th</sup> December 2019</b>
Brief:	<b>Tree Survey to BS5837:2012</b>	Survey Conditions:	<b>Rain</b>

T. No	Species	Ht (m)	Stem DBH (mm)	RPA Radius (m)	Branch Spread				Ht Crown Clearance (m)	Age Class	P Condition	Structural Condition & General Comments	Preliminary Recommendations (not to be actioned without a valid planning consent)	Est. (yrs)	Cat
					N	S	E	W							Grade
T1	Birch	9.5	200+ 200+ 200+ 220	4.92	3	4	3	3	1	M	F	Creates a 'middle' feature within existing property access. Hard standing surrounding tree stem.	No work required at this time.	<20	<b>C1</b>
H1	Beech	3.5	<100	2.94	1	1	1	1	0	M	G	Maintained boundary hedge. Appears to be off-site. Existing road (hard standing) to north.	No work required at this time.	40+	<b>B2</b>
W1	Oak Birch Poplar Ash Hawthorn	14	#150- 400	1.80- 4.80	-	3	3	3	0	EM-M	G	Appears to be located just outside of site boundary. Typical condition of a mature woodland. Understorey of Portuguese Laurel and Beech. Dense Bramble in areas. <b>Subject to TPO.</b>	No work required at this time	40+	<b>A 1/2</b>
T2	Beech	8	300+ 300	5.09	2	2	2.5	3	3	M	G	Bifurcate at 0.5m. Appears to be outside of site boundary. Recently crown reduced by owners.	No work required at this time	40+	<b>B1</b>
H2	Hawthorn Blackthorn Elder Birch Goat Willow	1.5- 7 (max)	#75- 170	0.90- 2.04	1.5	1.5	1.5	1.5	0	M	G	Boundary hedge. Typical understorey of Bramble. Goat Willow trees established extending to 7m within hedge.	No work required at this time.	40+	<b>B/C 1/2</b>
H3	Hawthorn Ash	2.5	#75- 170	0.90- 2.04	1.5	1.5	1.5	1.5	0	M	G	Create boundary feature. Well maintained, uniform hedge. Dense Bramble understorey. Ash trees establishing.	Remove (in parts) to facilitate development proposals.  Prune / clip remaining hedge to create more formal appearance.	40+	<b>B1</b>

NOTE: The Category Grade applied to trees surveyed is consistent with the recommendations within Table 1 of BS5837: 2012, however this does not necessarily correlate with the visual importance of a tree within the wider landscape, nor does it dictate which trees should be retained at the cost of quality development. Where trees are to be lost to accommodate a development, recommendations will be made such as to provide suitable mitigation and compensation, and to integrate the development into the wider landscape.

**Key to Abbreviations & Headings**

T. No.: Tree number (T = Tree, G – Group, W = Woodland, H = Hedge, Cpt. = Compartment)  
Stem DBH (Diameter at Breast Height): Measured at 1.5m above ground level\*  
Ht Crown Clearance: Canopy ground clearance  
Structural Condition: Description of any observed defects  
Cat. Grade: Tree quality assessment in accordance with BS5837: 2012

Species: Common name used  
Root Protection Area Radius: Root Protection Area as per BS5837: 2012  
Age Class: Y = Young, EM = Early Mature, M = Mature, OM = Over mature, D = Dead  
Preliminary Recommendations: Made in respect of known / intended use of the site  
\* For groups of trees, the stem diameter of the largest tree in the group is generally used  
# Denotes estimated DBH where access was not possible

Ht: Approximate height of tree from ground level in metres  
Branch Spread: Extent of canopy spread in metres to each of the four cardinal points  
P (Physiological) Condition: G = Good, F = Fair, P = Poor, D = Dead  
Est. (yrs): Estimated remaining contribution in years

Site:	<b>Lathom Pasture, Skelmersdale</b>	Surveyor:	<b>HM</b>
Client:	<b>Bellway Homes (North West)</b>	Survey Date:	<b>11<sup>th</sup> &amp; 20<sup>th</sup> December 2019</b>
Brief:	<b>Tree Survey to BS5837:2012</b>	Survey Conditions:	<b>Rain</b>

T. No	Species	Ht (m)	Stem DBH (mm)	RPA Radius (m)	Branch Spread				Ht Crown Clearance (m)	Age Class	P Condition	Structural Condition & General Comments	Preliminary Recommendations (not to be actioned without a valid planning consent)	Est. (yrs)	Cat
					N	S	E	W							Grade
H4	Beech	2.5-3	#75-150	0.90-1.80	1	1	1	1	0	M	G	Appears to be located outside of site boundary.	Remove specified section. Prune / clip back to boundary as required, and to create a more formal appearance.	40+	<b>B1</b>
G1	Ash Birch Weeping Willow	12	<400 X3	<8.31	2	3	4	2	0	EM-M	G	Stems located outside of site boundary (within private garden). Some stems Ivy clad.	Crown lift overhanging branches to 3.5m.  Reduce branch tips back to boundary as required.	<30	<b>C1</b>
H5	Hawthorn	4	<175	<2.10	1.5	1.5	1.5	1.5	0	M	G	Boundary hedge. Ivy clad stems. Memorial flowers located adjacent to roadside.	Prune / clip hedge to create a more formal appearance.  Remove x1 small Goat Willow as marked on the drawings.	40+	<b>B1</b>
T3	Goat Willow	9	<400	<4.80	4	4	4	4	0	M	F	Multi-stemmed for typical of species.	Remove to facilitate development proposals.	<30	<b>C1</b>
T4	Sycamore	12	200+ 200+ 200	4.16	4	4	4	4	0	EM	F	Self-seeded, multi-stemmed form.	Crown lift to 3m.	30+	<b>C1</b>
G2	Sycamore	10	<450	<5.40	5	5	5	5	0	M	F	Stump regrowth from previous hedge felling. Dense Bramble.	Remove to facilitate development proposals.	<30	<b>C1</b>
T5	Birch	8	230	2.76	2	2	1	2	3	EM	P	'Private land' sign attached to tree. Moderate size deadwood within upper crown.	Remove to facilitate development proposals.	<20	<b>C1</b>
G3	Birch	8	<300	3.60	4	5	4	4	0	M	F	Multi-stemmed form. Typical condition for species.	Remove to facilitate development proposals.	30+	<b>C1</b>
T6	Birch	10	200+ 310	4.43	3	4	3	3	1	M	F	Bifurcate at 1.5m. Reasonable condition for age and species.	Remove to facilitate development proposals.	30+	<b>C1</b>

NOTE: The Category Grade applied to trees surveyed is consistent with the recommendations within Table 1 of BS5837: 2012, however this does not necessarily correlate with the visual importance of a tree within the wider landscape, nor does it dictate which trees should be retained at the cost of quality development. Where trees are to be lost to accommodate a development, recommendations will be made such as to provide suitable mitigation and compensation, and to integrate the development into the wider landscape.

**Key to Abbreviations & Headings**

T. No.: Tree number (T = Tree, G – Group, W = Woodland, H = Hedge, Cpt. = Compartment)  
Stem DBH (Diameter at Breast Height): Measured at 1.5m above ground level\*  
Ht Crown Clearance: Canopy ground clearance  
Structural Condition: Description of any observed defects  
Cat. Grade: Tree quality assessment in accordance with BS5837: 2012

Species: Common name used  
Root Protection Area Radius: Root Protection Area as per BS5837: 2012  
Age Class: Y = Young, EM = Early Mature, M = Mature, OM = Over mature, D = Dead  
Preliminary Recommendations: Made in respect of known / intended use of the site  
\* For groups of trees, the stem diameter of the largest tree in the group is generally used  
# Denotes estimated DBH where access was not possible

Ht: Approximate height of tree from ground level in metres  
Branch Spread: Extent of canopy spread in metres to each of the four cardinal points  
P (Physiological) Condition: G = Good, F = Fair, P = Poor, D = Dead  
Est. (yrs): Estimated remaining contribution in years

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Brief:	<b>Tree Survey to BS5837:2012</b>	Survey Conditions:	<b>Rain</b>

T. No	Species	Ht (m)	Stem DBH (mm)	RPA Radius	Branch Spread				Ht Crown Clearance (m)	Age Class	P Condition	Structural Condition & General Comments	Preliminary Recommendations (not to be actioned without a valid planning consent)	Est. (yrs)	Cat
				(m)	N	S	E	W							Grade
G4	Oak	8	250-300	3.00-3.60	4	4	4	4	0	EM	F	Squat form, self-seeded trees.	Remove to facilitate development proposals	30+	<b>C2</b>
H6	Hawthorn Blackthorn	4	#50-150	0.60-1.80	1	1	1	1	0	M	F	Previously maintained / laid hedge. Now overgrown.	Remove (in part) to facilitate development proposals.	40+	<b>B2</b>
G5	Norway Maple Alder Cypress Sycamore Poplar Hawthorn Elder	15	#200-420	2.40-5.04	3	3	3	3	0	M	F	Ivy clad stems. Reasonable condition for age and species.	Remove to facilitate development proposals	30+	<b>C2</b>
G6	Sycamore London Plane Elm	13	#300-500	3.60-6.00	5	5	5	5	0	EM-M	F	Boundary trees, multi-stemmed form, growing from raised embankment area.	Remove to facilitate development proposals	30+	<b>C2</b>

NOTE: The Category Grade applied to trees surveyed is consistent with the recommendations within Table 1 of BS5837: 2012, however this does not necessarily correlate with the visual importance of a tree within the wider landscape, nor does it dictate which trees should be retained at the cost of quality development. Where trees are to be lost to accommodate a development, recommendations will be made such as to provide suitable mitigation and compensation, and to integrate the development into the wider landscape.

**Key to Abbreviations & Headings**

T. No.: Tree number (T = Tree, G – Group, W = Woodland, H = Hedge, Cpt. = Compartment)  
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Age Class: Y = Young, EM = Early Mature, M = Mature, OM = Over mature, D = Dead  
P (Physiological) Condition: G = Good, F = Fair, P = Poor, D = Dead  
\* For groups of trees, the stem diameter of the largest tree in the group is generally used  
# Denotes estimated DBH where access was not possible

Ht: Approximate height of tree from ground level in metres  
Branch Spread: Extent of canopy spread in metres to each of the four cardinal points  
P (Physiological) Condition: G = Good, F = Fair, P = Poor, D = Dead  
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Brief:	<b>Tree Survey to BS5837:2012</b>	Survey Conditions:	<b>Rain</b>

T. No	Species	Ht (m)	Stem DBH (mm)	RPA Radius (m)	Branch Spread				Ht Crown Clearance (m)	Age Class	P Condition	Structural Condition & General Comments	Preliminary Recommendations (not to be actioned without a valid planning consent)	Est. (yrs)	Cat
					N	S	E	W							Grade
G7	Oak Birch Sycamore Hawthorn	15	#150-450	1.80-5.40	5	5	5	5	2	EM-M	G	Linear trees either side of old railway line. Good examples of species. Open, well-spaced, becoming sparse in some areas. No obvious signs of major defects.	Remove specified stems for proposed footpath and swale. Minimal pruning required to branch tips to the north-eastern edge of group.  Remove any unstable deadwood overhanging development area.	40+	A 1/2
G8	Goat Willow	9	#75-300	0.90-3.60	3	3	3	3	0	EM	F	Self-seeded scrub, multi-stemmed form, typical of species.	Remove to facilitate development proposals	30+	C2
G9	Sycamore	11	#150-300	1.80-3.60	3	3	3	3	2	EM	F	Ivy clad stems, appear to be located within the site boundary. Self-seeded specimens.	Remove specified trees as indicated on the drawings. Clear out ground level scrub vegetation.  Crown lift retained trees to 3.5m	30+	C1
H7	Hawthorn Blackthorn Elder	3	#50-200	0.60-2.40	2	2	2	2	0	EM-M	G	Boundary hedge. Flaied in past, becoming overgrown, and gappy in parts.	Remove specified section. Prune / clip back to boundary as required, and to create a more formal appearance.	40+	B2
G10	Lime	13	<370	<4.44	3	3	4	2	2.5	EM	G	Appear to be located outside of site boundary. Likely to be managed by the Local Authority (approx. 3 trees have been heavily reduced in past with associated re-growth now rapidly occurring).	Crown lift overhanging branches to 4m.  Reduce branch tips back to boundary as required.	40+	B2

NOTE: The Category Grade applied to trees surveyed is consistent with the recommendations within Table 1 of BS5837: 2012, however this does not necessarily correlate with the visual importance of a tree within the wider landscape, nor does it dictate which trees should be retained at the cost of quality development. Where trees are to be lost to accommodate a development, recommendations will be made such as to provide suitable mitigation and compensation, and to integrate the development into the wider landscape.


**Key to Abbreviations & Headings**

T. No.: Tree number (T = Tree, G – Group, W = Woodland, H = Hedge, Cpt. = Compartment)  
Stem DBH (Diameter at Breast Height): Measured at 1.5m above ground level\*  
Ht Crown Clearance: Canopy ground clearance  
Structural Condition: Description of any observed defects  
Cat. Grade: Tree quality assessment in accordance with BS5837: 2012

Species: Common name used  
Root Protection Area Radius: Root Protection Area as per BS5837: 2012  
Age Class: Y = Young, EM = Early Mature, M = Mature, OM = Over mature, D = Dead  
Preliminary Recommendations: Made in respect of known / intended use of the site  
\* For groups of trees, the stem diameter of the largest tree in the group is generally used  
# Denotes estimated DBH where access was not possible

Ht: Approximate height of tree from ground level in metres  
Branch Spread: Extent of canopy spread in metres to each of the four cardinal points  
P (Physiological) Condition: G = Good, F = Fair, P = Poor, D = Dead  
Est. (yrs): Estimated remaining contribution in years



Site:	Lathom Pasture, Skelmersdale								Surveyor:	HM			 Landscape   Trees   Ecology		
Client :	Bellway Homes (North West)								Survey Date:	11 <sup>th</sup> & 20 <sup>th</sup> December 2019					
Brief:	Tree Survey to BS5837:2012								Survey Conditions:	Rain					
G11	Goat Willow Grey Willow Oak Birch Field Maple Sycamore Scots Pine Cherry	19	#75-400	1.27-6.79	4	4	4	4	0	EM-M	F	Area of Goat and Grey Willow self-seeded scrub, with young Birch and Oak trees beginning to establish. Extends southwards into more mature linear group of trees, some good examples of species, individual trees marked on the drawing.	Remove specified stems for proposed footpath and swale	40+	A1/2

NOTE: The Category Grade applied to trees surveyed is consistent with the recommendations within Table 1 of BS5837: 2012, however this does not necessarily correlate with the visual importance of a tree within the wider landscape, nor does it dictate which trees should be retained at the cost of quality development. Where trees are to be lost to accommodate a development, recommendations will be made such as to provide suitable mitigation and compensation, and to integrate the development into the wider landscape.

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## Appendix 2



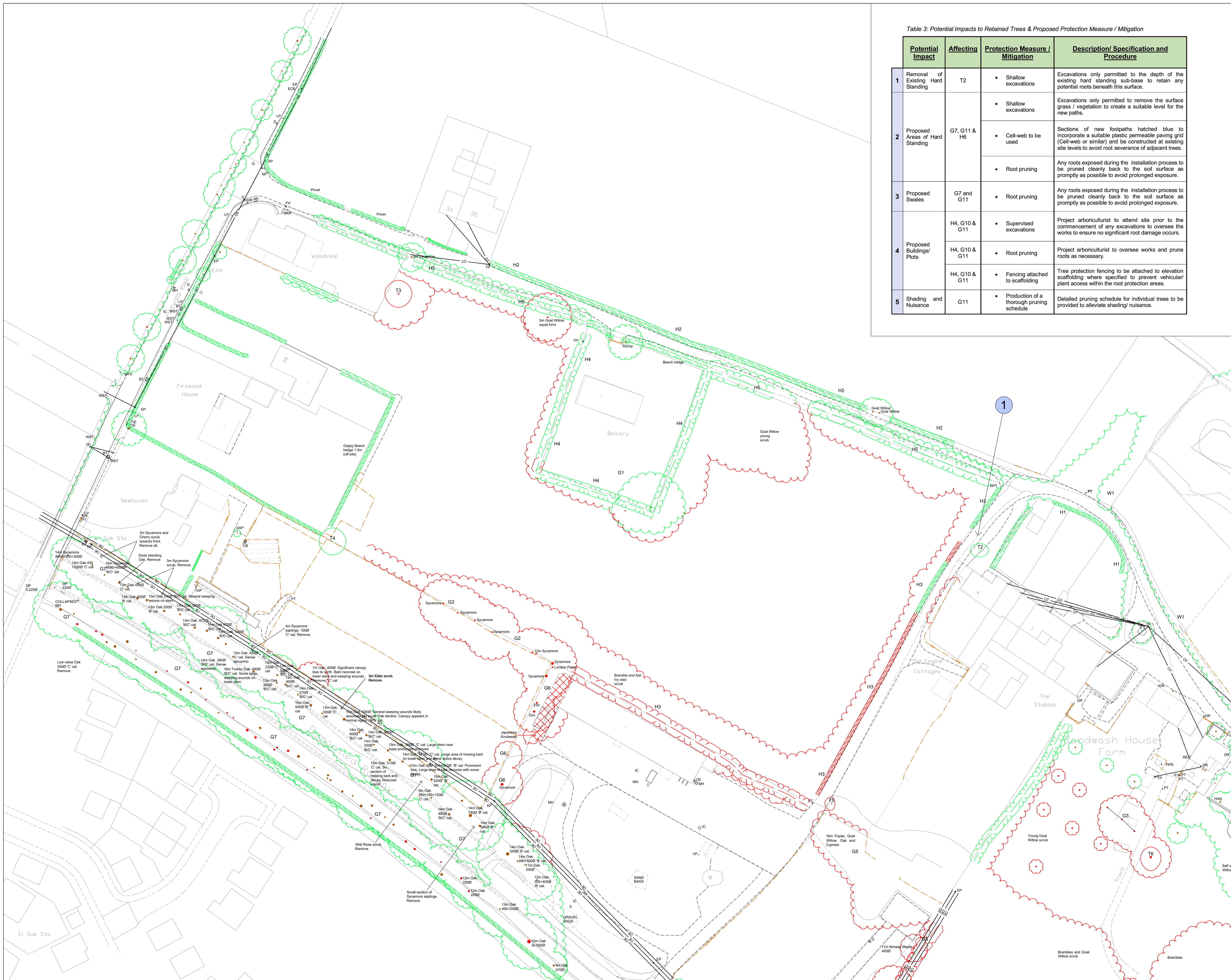


Table 3: Potential Impacts to Retained Trees & Proposed Protection Measure / Mitigation

Potential Impact	Affecting	Protection Measure / Mitigation	Description/ Specification and Procedure
1 Removal of Existing Hard Standing	T2	• Shallow excavations	Excavations only permitted to the depth of the existing hard standing sub-base to retain any potential roots beneath this surface.
2 Proposed Areas of Hard Standing	G7, G11 & H6	• Shallow excavations	Excavations only permitted to remove the surface grass / vegetation to create a suitable level for the new paths.
		• Cell-web to be used	Sections of new footpaths hatched blue to incorporate a suitable plastic permeable paving grid (Cell-webs or similar) and be constructed at existing site levels to avoid root severance of adjacent trees.
3 Proposed Swales	G7 and G11	• Root pruning	Any roots exposed during the installation process to be pruned cleanly back to the soil surface as promptly as possible to avoid prolonged exposure.
		• Root pruning	Any roots exposed during the installation process to be pruned cleanly back to the soil surface as promptly as possible to avoid prolonged exposure.
4 Proposed Buildings/ Plots	H4, G10 & G11	• Supervised excavations	Project arboriculturist to attend site prior to the commencement of any excavations to oversee the works to ensure no significant root damage occurs.
	H4, G10 & G11	• Root pruning	Project arboriculturist to oversee works and prune roots as necessary.
5 Shading and Nuisance	G11	• Fencing attached to scaffolding	Tree protection fencing to be attached to elevation scaffolding where specified to prevent vehicular/ plant access within the root protection areas.
		• Production of a thorough pruning schedule	Detailed pruning schedule for individual trees to be provided to alleviate shading/ nuisance.

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**KEY**

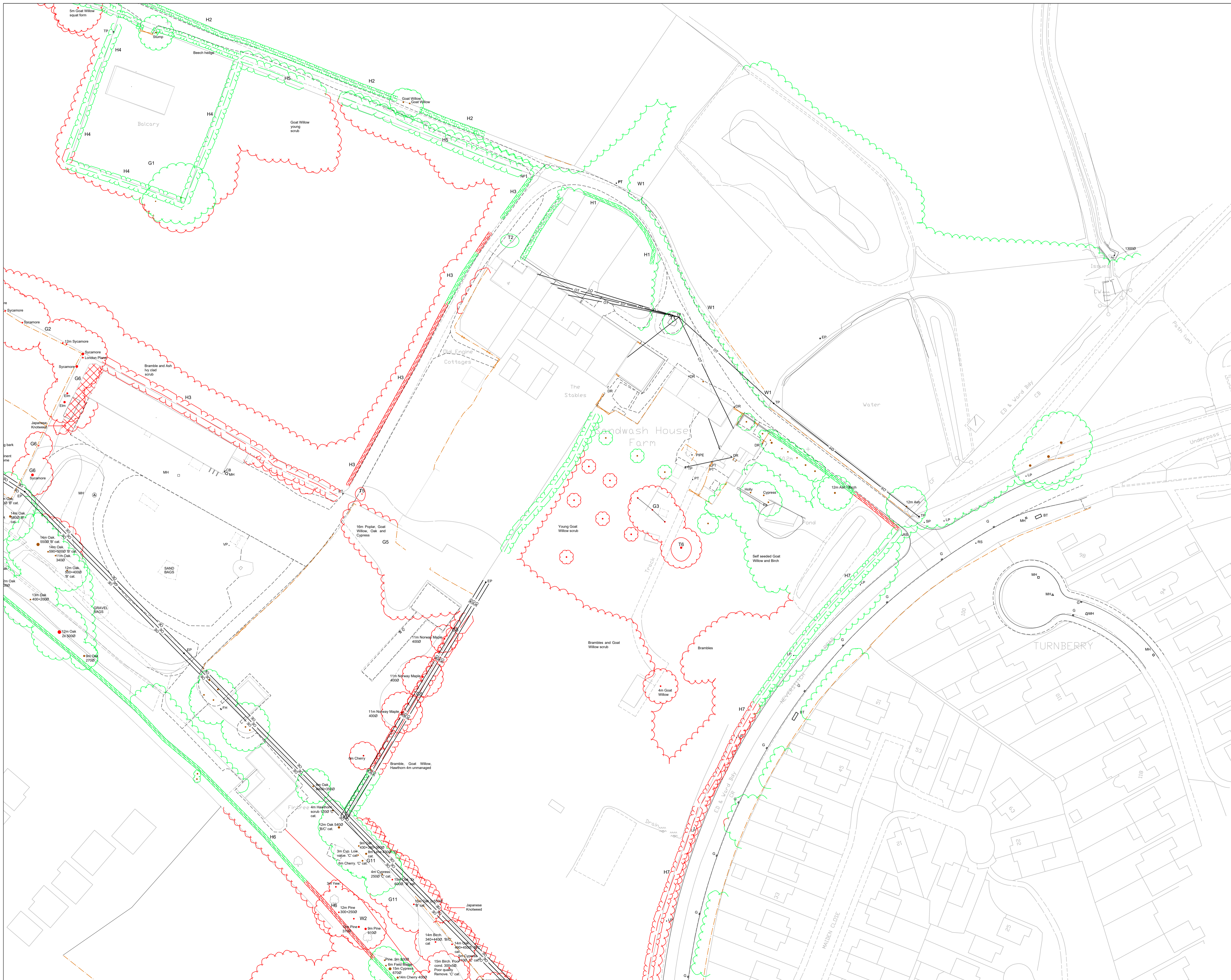
- Existing tree to be retained
- Existing tree to be removed
- Japanese Knotweed
- Target note - See Table 3 attached for details of required protection measures

A Phase 2 rev PL01 rev A 24.11.20  
 Rev Reason Date

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CLIENT: Bellway Homes  
 PROJECT: Latham Pasture (Phase 2) Skelmersdale  
 DRAWING TITLE: Tree Survey & Tree Removal Plan  
 Sheet 1 of 3  
 SCALE: 1:500 @A1 DRAWN BY: CP DRAWING No: REV:  
 DATE: 20/12/2019 CHD BY: RA P.1280.19.01 A








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**KEY**

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-  Japanese Knotweed

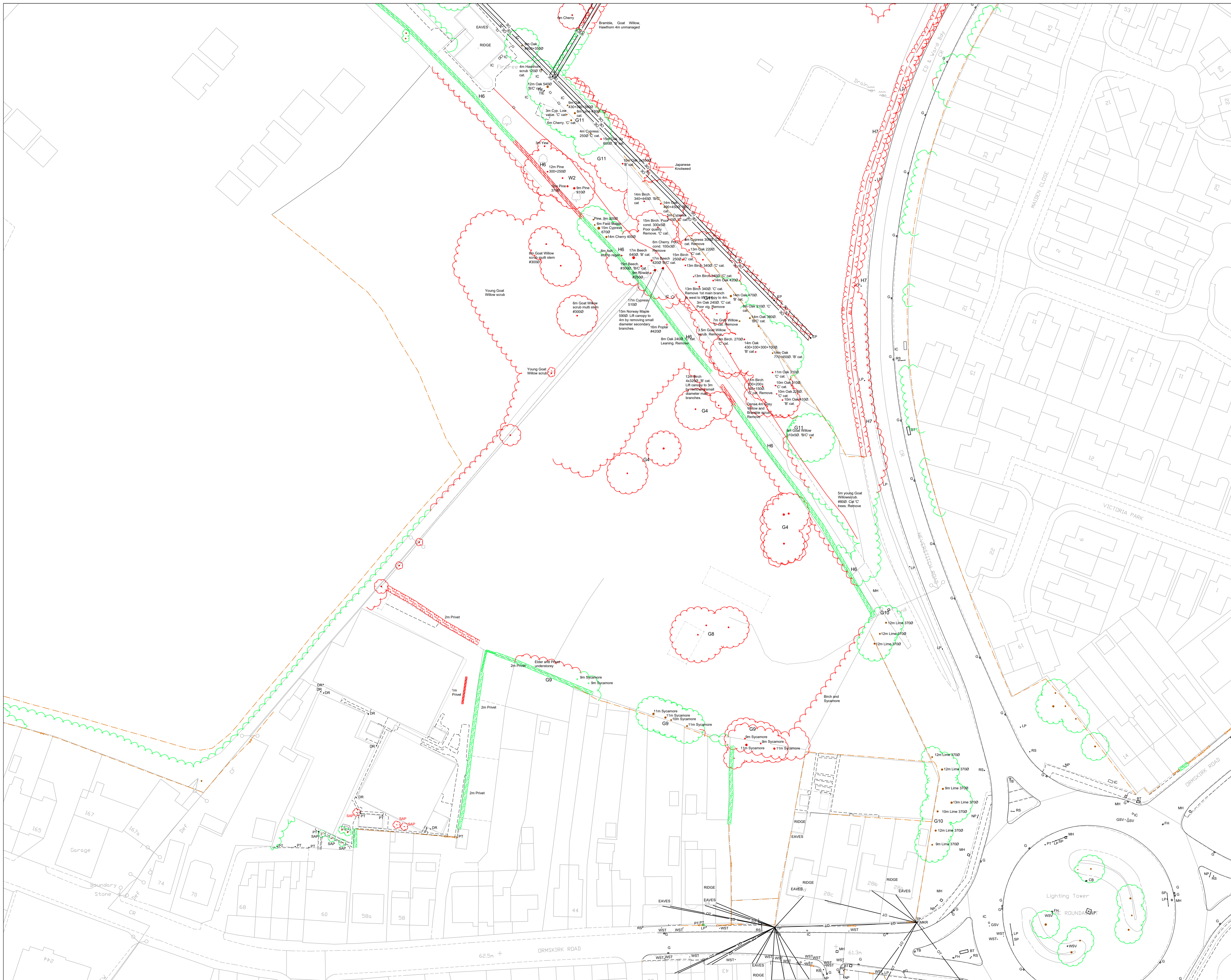
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Sheet 3 of 3

SCALE: 1:500 @A1	DRAWN BY: CP	DRAWING No: RA	REV: P.1280.19.01
DATE: 20/12/2019	CHKD BY: RA		A





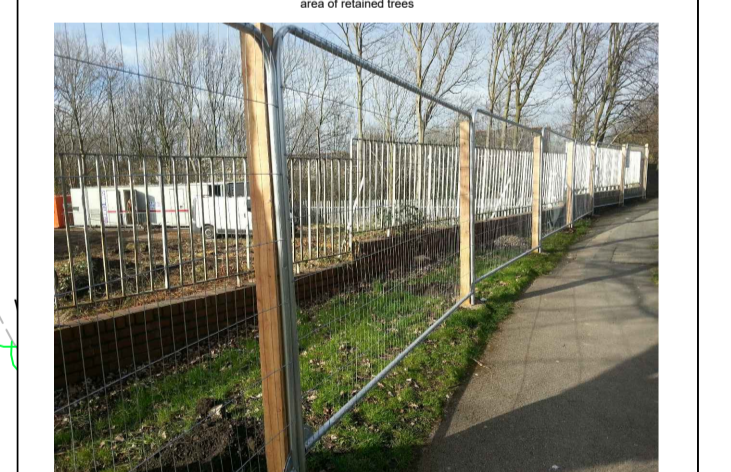
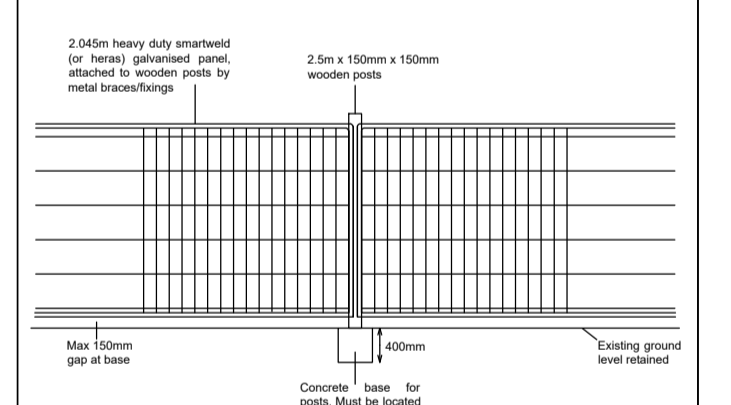
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2 Proposed Areas of Hard Standing	G7, G11 & H6	<ul style="list-style-type: none"> <li>Shallow excavations</li> </ul>	Excavations only permitted to remove the surface grass / vegetation to create a suitable level for the new paths.
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	H4, G10 & G11	<ul style="list-style-type: none"> <li>Root pruning</li> <li>Fencing attached to scaffolding</li> </ul>	<ul style="list-style-type: none"> <li>Project arboriculturist to oversee works and prune roots as necessary.</li> <li>Tree protection fencing to be attached to elevation scaffolding where specified to prevent vehicular/ plant access within the root protection areas.</li> </ul>
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- KEY
- Existing tree to be retained
  - Extent of Root Protection Area for retained trees in accordance with BS5837: 2012 Trees in relation to design, demolition and construction - Recommendations
  - Proposed location of protective fencing - see inset for type / construction detail
  - Target note - See Table 3 attached for details of required protection measures
  - Cell-web or similar plastic permeable paving grid to be used and surface constructed at or above existing ground levels.



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 PROJECT:  
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 DRAWING TITLE:  
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 Sheet 1 of 3  
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 CHD BY: HM  
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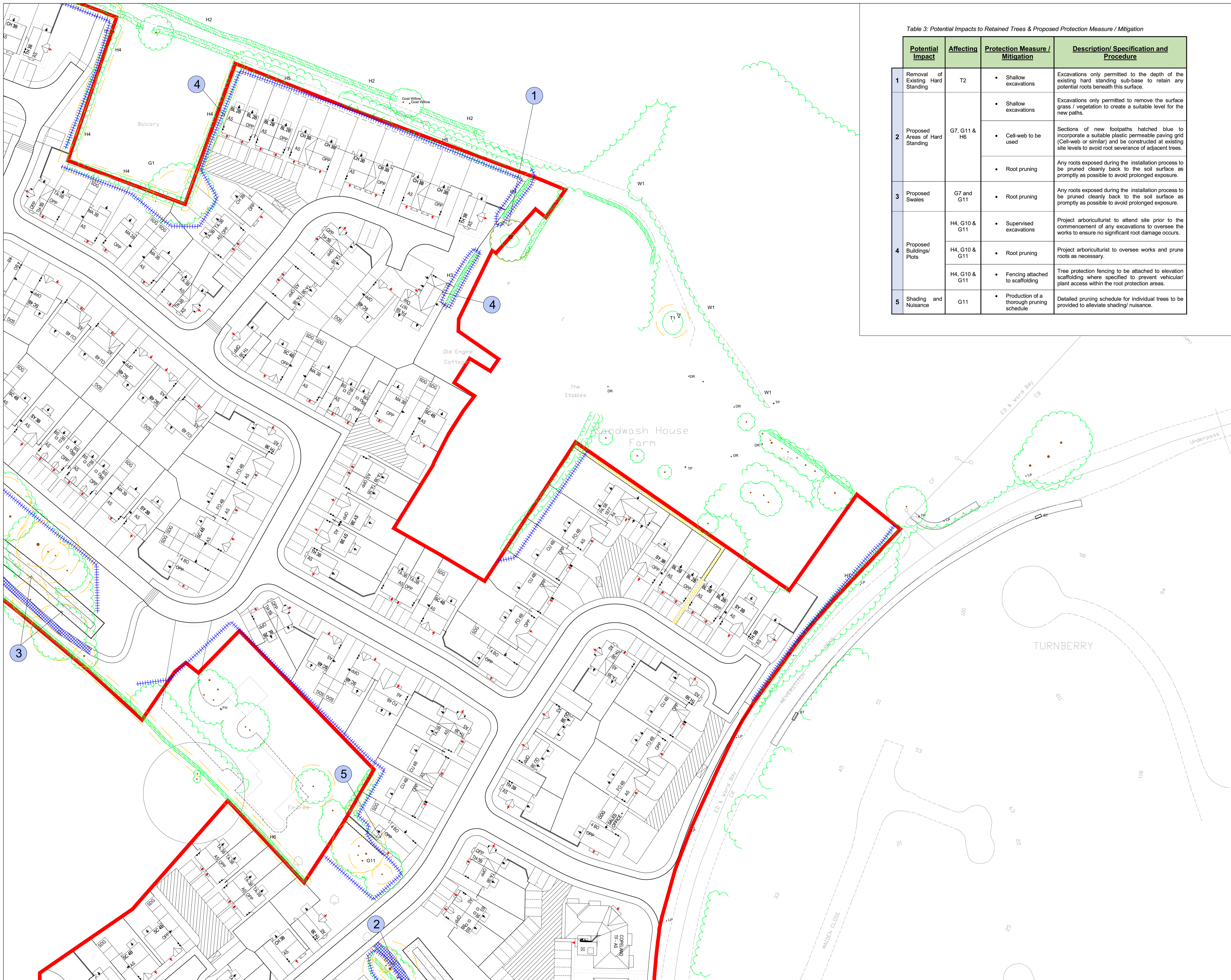


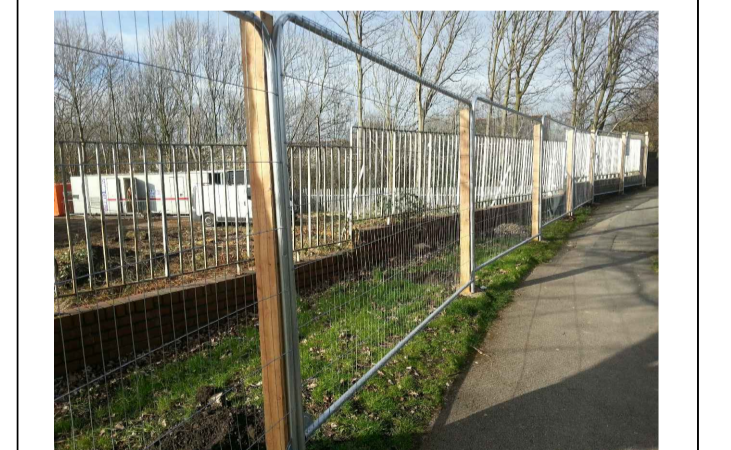
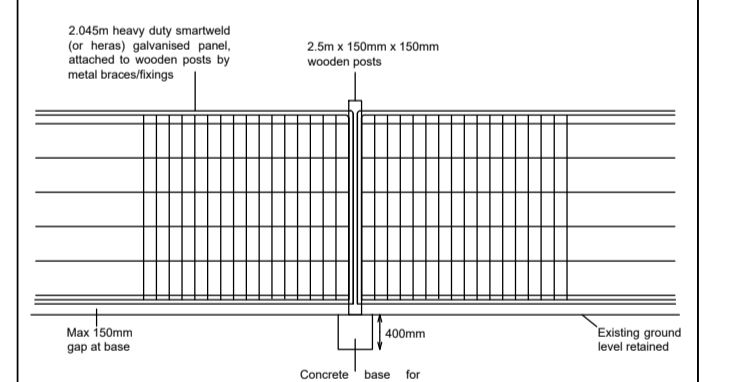
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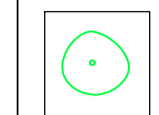
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PROJECT:  
Lathom Pasture (Phase 2) Skelmersdale  
DRAWING TITLE:  
Tree Protection Measures  
Sheet 2 of 3  
SCALE: 1:500 @A1 DRAWN BY: CP DRAWING No: PROJECT: A  
DATE: 20/12/2019 CHD BY: HM P.1280.19.02



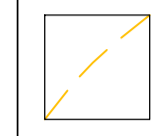
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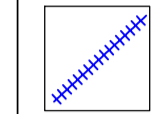
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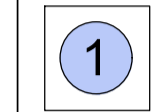
Existing tree to be retained



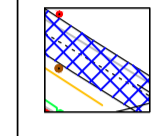
Extent of Root Protection Area for retained trees in accordance with BS5837: 2012 Trees in relation to design, demolition and construction - Recommendations



Proposed location of protective fencing - see inset for type / construction detail



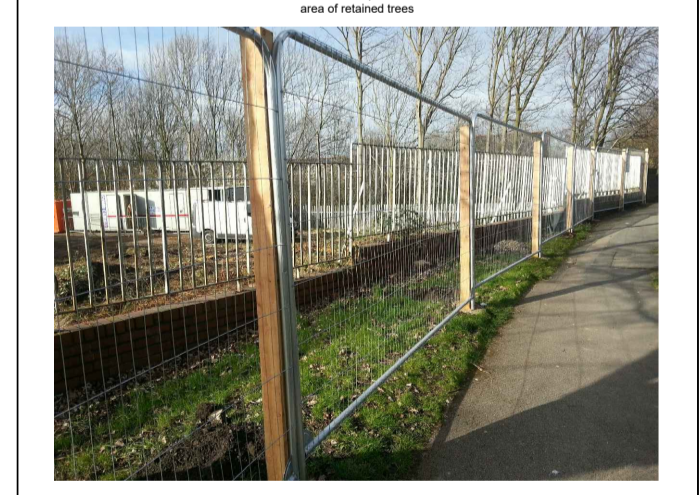
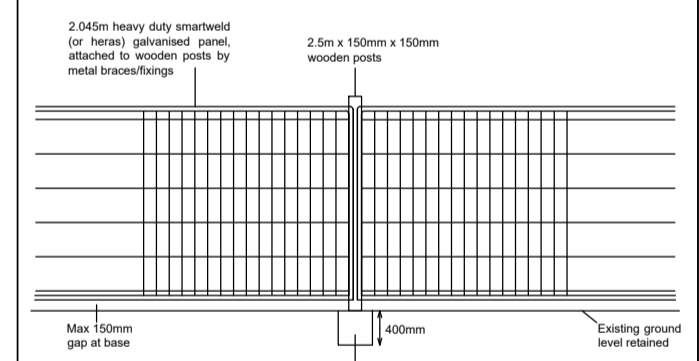
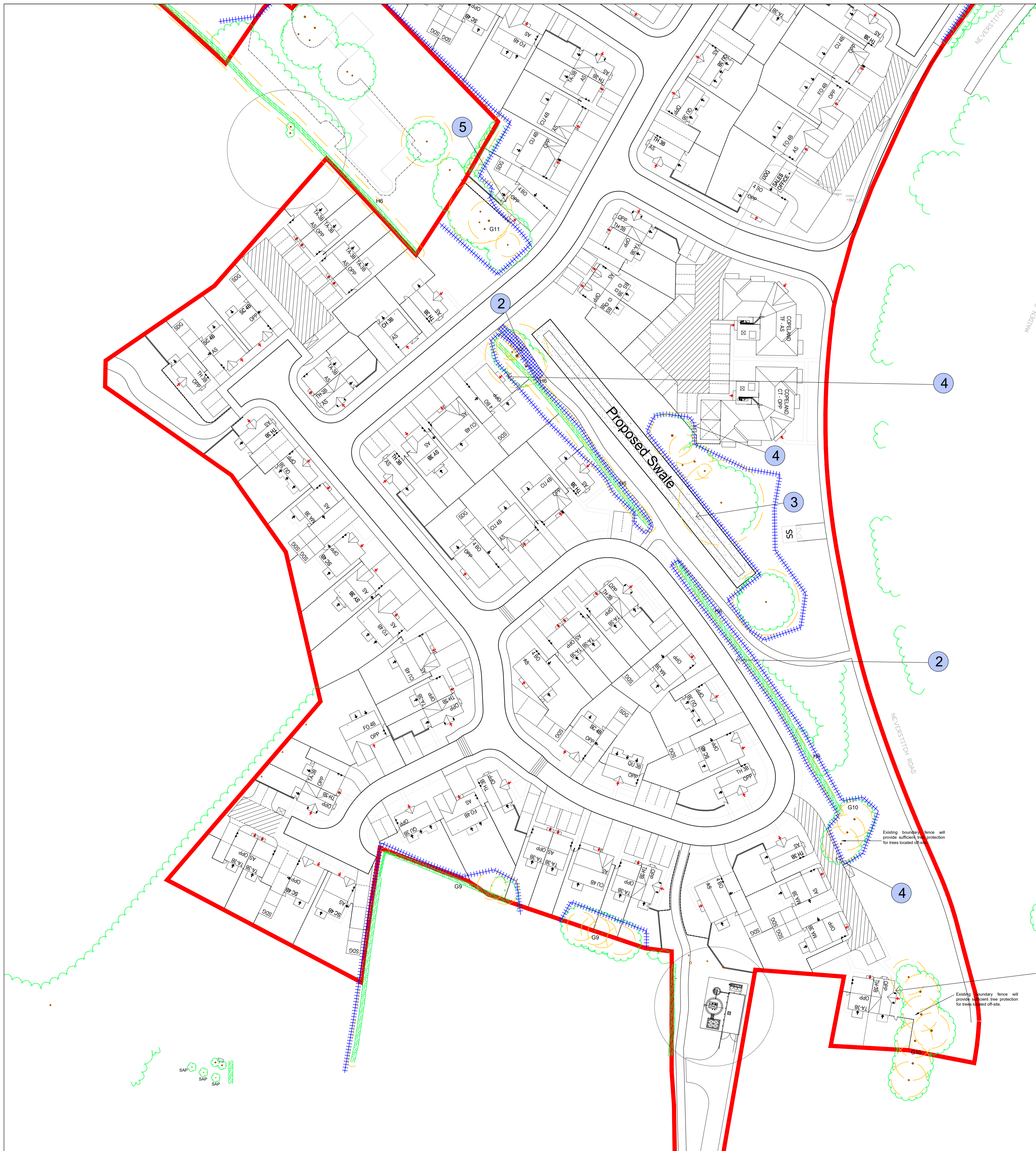
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