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ARBORICULTURAL METHOD STATEMENT

Burndell Road, Yapton, West Sussex.

Alex Monk
March 2013



ARBORICULTURAL REPORT

Client:	Persimmon Homes South Coast
Site:	Burndell Road, Yapton, West Sussex.
Arboricultural Consultant:	Alex Monk <i>Tech Cert Arbor A, NCH Arb.</i> March 2013.
Date:	

1.0 INTRODUCTION

- 1.1 I have been instructed by Persimmon Homes South Coast to undertake this Arboricultural Method Statement for the site of Burndell Road, Yapton, West Sussex. This report is required to be part of supporting paperwork to release Condition 4 of the approved planning application to Arun District Council, Appeal Decision No APP/C3810/A/11/2155343.
- 1.2 The approved proposal is for the re-development of the site with construction of domestic dwellings, car parking facilities and hard and soft landscaping.
- 1.3 The clients brief is as follows:
- Undertake a Tree Survey in accordance with BS5837:2012.
 - To undertake an AutoCAD Tree Survey Plan based on the accuracy of the site layout plan.
 - To carry out an Arboricultural Implications Assessment (AIA) of the proposed construction provided by the client, to identify which trees can be retained and which trees would be lost to construction.
 - Based on the above, to produce an Arboricultural Method Statement detailing methodologies for tree retention with the inclusion of a Tree Protection Plan.
- 1.4 Document disclosure provided by Persimmon Homes South Coast.
- Proposed Site Layout plan by AAP Architecture Ltd.
 - Drawing No P626/01/05.

2.0 DESCRIPTION OF THE SITE

- 2.1 The site is currently open land with grass areas, a pond and scrub areas on the boundaries.
- 2.2 The tree stock is dispersed mainly to the periphery of the site with understory of bramble and other scrub species.

2.3 Figure 1: Photo of site showing grass and scrub areas.



3.0 ARBORICULTURAL IMPLICATIONS ASSESSMENT

- 3.1 A tree survey in accordance with BS5837:2012 was undertaken on 14th February 2013. The tree survey exercise identified Thirty Eight (38) individual trees and Eight (8) groups of trees on or adjacent to the site area that may be affected within the proposed works. More details of the tree survey can be seen within the tree survey schedule.
- 3.2 In accordance with the recommendations contained within BS5837:2012 *"Trees in relation to design, demolition and construction - Recommendations"*, a qualified arboriculturist has assessed the requirements for tree protection and the Root Protection Area (RPA). The implications of the proposed construction are detailed below, along with any mitigating measures to ensure the retention of these trees.

The following summary of implications relates to only those trees which will require mitigation measures to allow for construction operations. Trees, groups and woodlands not listed below can be fully protected in accordance with BS5837:2012 as indicated on the Tree Protection Plan.

Tree No.	Species	BS 5837: 2012 Cat	Potential cause of harm	Implication	Mitigation
5	Pedunculate Oak	B1	- Existing ground compaction. - Dead wood in crown.	Reduced water and aerobic movement through the soil	Soil aeration works once tree protection measures are in place. Terrain Aeration: Tree Roots www.terrainaeration.co.uk/tree-roots/ - Removal of major dead wood. - Protective fencing as shown on tree protection plan and detailed in section 4 of this report.
6-11	Monterey Cypress	U	Dead/Dying or dangerous trees	Lost	Replacement planting
12	Common Hawthorn	U	Decayed stem at base	Lost	Replacement planting
14	Common Sycamore	U	Decayed stem	Lost	Replacement planting
15	Common Elder	C1	Under footprint of parking bays	Lost	-
16	Lawson Cypress	C1	Under footprint of parking bays	Lost	Replacement planting
23	Common Hornbeam	B1	Under footprint of access road	Lost	Replacement planting
29-31	Monterey Cypress	U	Dead/Dying or dangerous	Lost	Replacement planting
32	Monterey Cypress	C1	Under footprint of access road	Lost	Replacement planting
33	Monterey Cypress	C1	Under footprint of access road	Lost	Replacement planting
34-35	Monterey Cypress	U	Dead/Dying or dangerous	Lost	Replacement planting
Gp2	Hawthorn & Blackthorn	C2	South part of group under footprint of house, garden and footpath.	Part lost	Protective fencing as shown on the tree protection plan and detailed in section 4 of this report.

Tree No.	Species	BS 5837: 2012 Cat	Potential cause of harm	Implication	Mitigation
Gp3	Elder & Hawthorn	C2	Partly under footprint of highway, poor quality trees	Lost	Replacement planting
Gp4	Hawthorn, Elder & Blackthorn	C2	Partly under the footprint of housing, gardens and highway.	Part lost	Protective fencing as shown on tree protection plan and detailed in section 4 of this report.
Gp5	Hawthorn & Elder	C2	Under footprint of housing and gardens.	Lost	-
Gp6	Mixed species	C2	Partly under the footprint of housing, gardens, parking spaces and turning head.	Part lost	Protective fencing as shown on tree protection plan and detailed in section 4 of this report.
Gp7	Monterey Cypress	U	Group of dead and collapsed stems	Lost	-
Gp8	Hawthorn, Blackthorn and Elm regeneration	C2	Partly under the footprint of housing, car parking spaces, gardens and access road.	Partly lost	Protective fencing as shown on tree protection plan and detailed in section 4 of this report.

3.3 All other trees are unaffected by the approved proposals and can be retained and fully protected during the construction process as shown on the tree protection plan.

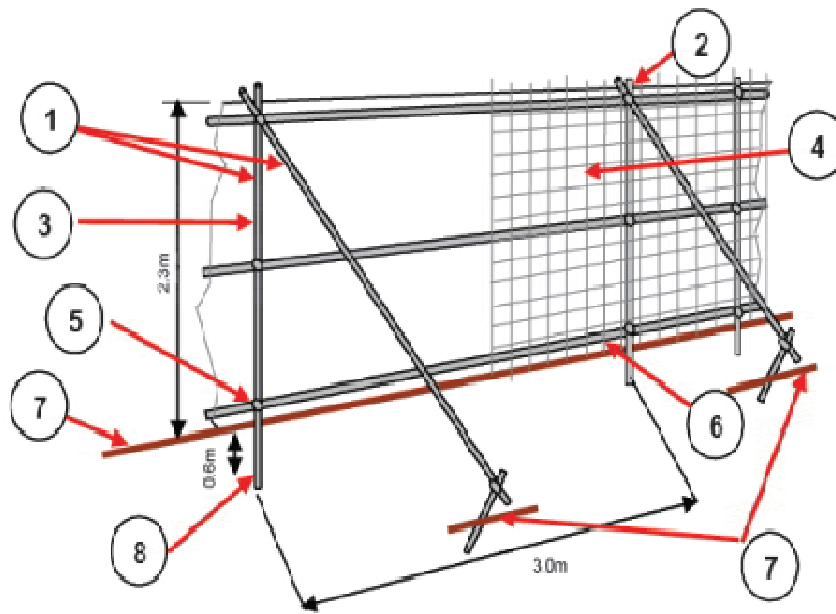
4.0 TREE PROTECTION MEASURES

4.1 Protective Barriers for Higher Construction Areas

The barrier is to comprise of a vertical and horizontal framework, well braced to resist impacts, with vertical tubes spaced at a maximum interval of 3m. Onto this, weldmesh panels should be securely fixed with wire or scaffold clamps.

In accordance with Section 6.2.2 of BS5837:2012, weldmesh panels on rubber or concrete feet are not resistant to impact, and will not be used for tree protection purposes on this site. The protective barrier will be erected as soon as site clearance operations have been completed and prior to any site construction activity as shown on the Tree Protection Plan.

Figure 2: Protective Barrier



1. Standard scaffold poles
2. Uprights to be driven into the ground
3. Panels secured to uprights with wire ties and where necessary standard scaffold clamps
4. Weldmesh wired to the uprights and horizontals
5. Standard clamps
6. Wire twisted and secured on inside face of fencing to avoid easy dismantling
7. Ground level
8. Approximately 0.6m driven into the ground

4.2 Protective Barriers for Lower Construction Areas

The barrier is to comprise of 'Chestnut Pale' fencing. This will be adequate and reasonable to use for areas of lower construction areas, and long lengths of protection where minor construction is taking place. This is shown on the Tree Protection Plan.

The 'Chestnut Pale' fencing will be securely attached to stout round or split stakes, driven into the ground at 5m intervals as the below photo shows as an example. The protective barrier will be erected as soon as site clearance operations have been completed and prior to any site construction activity.

Figure 3: Example of 'Chestnut Pale' fencing.



5.0 GENERAL CONSIDERATIONS WITHIN AND OUTSIDE THE CONSTRUCTION EXCLUSION ZONE

5.1 Construction Exclusion Zone (CEZ)

5.1.1 Inside the Construction Exclusion Zone (CEZ) formed by the protective barrier, the following prohibitions shall apply:

- **No construction activity will occur within the CEZ unless otherwise stated in this report or agreed in writing with Arun District Council prior to the specific activity-taking place.**

5.1.2 In addition to the above, further precautions are necessary adjacent to trees outside the CEZ:

- Materials, which will contaminate the soil e.g. concrete mixing, diesel oil and vehicle washings, shall not be discharged within 10 metres of the tree stem. This should take into consideration the topography of the site and slopes, to avoid materials such as concrete washings running towards trees.
- Fires shall not be lit in a position where their flames can extend to within 5 metres of foliage, branches or trunk. This will depend on the size of the fire and the wind direction.

6.0 LANDSCAPING

6.1 Due to the tree loss on site, a comprehensive landscaping scheme will help to mitigate this tree loss. Replacement trees will be of good quality, a good size, planting practices to industry guide-lines will be met to ensure that the trees have the best chance of establishing. Additionally, a good choice of species and location will ensure that the replacement trees will enhance the existing tree stock and the site as a whole.

- 6.2 The landscaping plan should include a robust management scheme for at least 5 years aftercare (with replacement should a tree die within this period).

7.0 TREEWORCS

- 7.1 All tree works will be in accordance with BS3998:2010 and be undertaken by a suitably qualified and insured contractor prior to any construction activity. An ecologist will have access to the site prior to any site clearance work and advise the contractors accordingly if any special precautions need to be made with regards to wildlife and trees.

7.2 Summary of Tree Works

Tree No	Species	Tree Works
5	Pedunculate Oak	Soil aeration works within rooting zone. Remove major dead wood.
6-11	Monterey Cypress	Remove
12	Hawthorn	Remove
14	Sycamore	Remove
15	Elder	Remove
16	Lawson Cypress	Remove
23	Hornbeam	Remove
29-35	Monterey Cypress	Remove
Gp 2	Hawthorn & Blackthorn	Partly remove
Gp 3	Hawthorn & Elder	Remove
Gp 4	Hawthorn, Elder & Blackthorn	Partly remove
Gp 5	Hawthorn & Elder	Remove
Gp 6	Mixed species	Partly remove
Gp 7	Monterey Cypress	Remove
Gp 8	Hawthorn, Blackthorn and Elm	Partly remove

8.0 PRE-COMMENCEMENT SITE MEETING

8.1 Pre-commencement site meeting

A pre-commencement site meeting shall be held prior to any works commencing on site, to agree all approved processes with the Arboricultural Consultant, the construction personnel and Arun District planning and development tree officer. This meeting could be used to formally agree the tree protection measures prior to commencement of the construction work.

8.2 Site Inspection arrangements

Any works requiring supervising by the retained arboriculturist will be arranged prior to the operation with a written statement produced to record the works undertaken. This will be made available to the client and the local authority tree officer.

Additionally, a monthly site meeting will be arranged between the retained arboriculturist and site contractor to inspect tree protection measures, condition of retained trees and to advise on any issues the contractor may have. In addition to produce a written site inspection statement in email format. This will be available to the contractor, client and local authority tree officer.

9.0 CONCLUSIONS

- 9.1 The proposals for the construction of new dwellings, car parking facilities, hard and soft landscaping at the site of Burndell Road, Yapton have been assessed broadly in accordance with British Standard 5837:2012 – *"Trees in relation to design, demolition and construction – Recommendations"*.
- 9.2 If the processes and tree protection measures in this report are adhered to, the trees detailed for retention should be well protected leading to their long term health and retention during the construction process.

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