Arboricultural Method Statement

relating to development at

Langstone Lodge
1 Langstone High Street
Langstone
Hampshire, PO9 1RY

Client

Mr and Mrs Denton
Langstone Lodge
1 Langstone High Street
Langstone
Hampshire,
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October 2022

1760-KC-XX-YTREE-MethodStatement-RevA

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Contents

1.0 Statement of purpose 6
2.0 Related documents and drawings 6
3.0 Arboricultural issues & implications 7
4.0 Facilitation tree works 7
5.0 General site care 8
6.0 Sequencing of works 8
7.0 Protective barriers and ground protection 9
8.0 Treatment of existing hard surfaces 9
9.0 Creation of new hard surfacing within root protection areas 10
10.0 Excavations proximate to root protection areas 11
11.0 Reinstatement and landscaping 11
12.0 Planning, communication and supervision 12
13.0 Transgression 12
14.0 Conclusion 13

Appendices

Appendix 1
Typical detail of no-dig construction

Appendix 2
List of contacts

Tables

Table 1: Documents referred to 6
Table 2: Drawings referred to 6

WARNING

Existing trees adjoining these works are protected by Tree Preservation Order.

That Order protects all parts of the tree, whether above or below ground, and failure to comply with this method statement that results in damage to trees can result in prosecution resulting in a criminal record and substantial fine.

ABSTRACT

Protective barriers and ground protection are required throughout the demolition and construction process to protect the retained trees on the site.

Tree removal and pruning are required.

Hard surfaces are proposed within root protection areas and the methodology of placement is considered.

No utility installation is required within root protection areas.

1.0 Statement of purpose

1.1 The purpose of this method statement is to demonstrate how works will be undertaken at Langstone Lodge, to avoid unacceptable arboricultural impact and provide an adequate level of protection for those trees that are to be retained.

1.2 This method statement has been produced for Mr and Mrs Denton in order to inform the construction team and satisfy the requirements of the Local Planning Authority (LPA), Havant Borough Council. The works are the subject of a planning application and this arboricultural method statement has been prepared to support the application.

1.3 This method statement merely considers the systems of work in relation to the health and safety of retained trees. It does not address requirements of the Health and Safety Executive that should be considered in detail by those parties involved.

2.0 Related documents and drawings

2.1 This method statement should be read in conjunction with the documents in Table 1 below.

Table 1: Documents referred to

Originator	Title/Reference
British Standards Institute	*BS5837:2012 Trees in relation to design, demolition and construction – Recommendations*

and the following drawings in Table 2

Table 2: Drawings referred to

Originator	Drg No	Title
Thorp Design	10129.303	Site Plan
Keen Consultants	1760-KC-XX-YTREE-TCP01Rev0	Tree Constraints Plan
Keen Consultants	1760-KC-XX-YTREE-TPP01RevA	Tree Protection Plan

3.0 Arboricultural issues & implications

3.1 Detail of the trees and their protection are discussed and detailed in the documents, and shown on the drawings, listed above and should be read in conjunction with this method statement.

3.2 Demolition of the existing dwelling and the proposed extensions to the footprint are generally located outside the root protection areas of all retained trees; an exception being the extension on the north west corner of the dwelling that marginally projects within the root protection area of tree 15. The intrusion is so minor that specialist construction measures for the extension are not required.

3.3 An extension to the terrace on the north west corner of the dwelling lies partially within the root protection area of tree 15. The existing terrace is raised and therefore lends itself to extension using a no-dig form of construction. A proposed pathway to the east of the dwelling is within the root protection area of retained trees and also adopt no-dig construction methodology.

3.4 Tree removal and pruning work are required.

3.5 The existing utility provision is to be re-used. No new utilities are required within root protection areas.

3.6 The works are small in scale and remote from trees, obviating the need for monitoring of works by an arboriculturist.

4.0 Facilitation tree works

4.1 Tree pruning and removal are required to accommodate the proposed development.

4.2 Details of the tree work are given in the schedule on the Tree Protection Plan referred to in Table 2 above.

4.3 All tree work shall be undertaken in accordance with *BS3998:2010:Tree Work – Recommendations*.

5.0 General site care

5.1 To ensure that the trees to be retained are afforded an adequate degree of protection during the works, the following general precautions will be observed:

5.1.1 No fires will be lit on site

5.1.2 No access will be permitted within the temporarily barriered areas, unless and only where otherwise approved herein. Ground levels will not be changed within them and existing vegetation and topsoil will be left undisturbed but may be treated with approved herbicides if eradication is required.

5.1.3 No materials, equipment or debris will be stored within any of the barriered areas and no chemicals, petrol or diesel will be allowed to spill where they may contaminate the root protection areas of retained trees.

5.1.4 All heavy plant, machinery, cranes and delivery vehicles shall be excluded from the areas demarcated for protection on the Tree Protection Plan.

6.0 Sequencing of works

6.1 A logical sequence of events is to be observed as follows:

Stage 1 Undertake tree works.

Stage 2 Erect protective barriers and lay ground protection as shown on the drawing in Table 2 (specifications given in Section 7).

Stage 3 Implement areas of no-dig construction (if required to provide access for construction activity).

Stage 4 Implement demolition.

Stage 5 Implement development construction.

Stage 6 Take down protective barriers, uplift ground protection and complete soft landscape works.

7.0 Protective barriers and ground protection

7.1 Temporary barriers will be erected, in advance of demolition, as indicated on the Tree Protection Plan listed in Table 2. The specification for this barriers will be in accordance with the recommendations given in *BS5837:2012 Trees in relation to design, demolition and construction – Recommendations* Section 6.2 and will comprise 2.0m mesh barriers (Heras type panels are a simple, readily available solution) attached to a scaffold framework. Support scaffolds will be attached to the scaffold framework as necessary at an angle of 45 degrees on the side of the trees and anchored by further scaffold poles carefully firmed into the ground. Alternatively, the alternative specification of Heras type panels, fitted with stabiliser struts as per Figure 3 of BS5837, may be used. Clear signs will be attached at 6 metre intervals along the line of barriers stating 'Tree Protection Area – No Access'.

7.2 The barriers shall remain in place until soft landscape operations require its full or partial removal (see section 11). No other construction activity will take place within those areas formerly protected by the fence (see Section 5).

7.3 Ground protection in the form of robust timber sheeting (or steel road plates) under which a geotextile membrane (e.g. Terram 1000) is laid shall be placed prior to demolition commencing to ensure that the rooting environment of the associated trees is protected from contamination or compaction.

7.4 Ground protection shall remain in place throughout the demolition and construction process only to be removed to facilitate soft landscape works (Stage 7)

8.0 Treatment of existing hard surfaces

8.1 Where existing hard surfaces are present within the root protection area they shall be broken up and removed by hand.

8.2 Roots often exist in the substrate below hard surfaces and extreme care must be taken to avoid damage to them.

8.3 Immediately after, the void left as a consequence of their removal shall be filled with good quality topsoil as a prelude to soft landscape unless a replacement hard surface is proposed whereupon it shall be completed in accordance with the instruction contained herein.

9.0 Creation of new hard surfacing within root protection areas

9.1 Areas of 'no-dig' construction shown on the drawing listed in Table 2 shall be implemented in accordance with site progress. If required to make space for construction it can be implemented, or implemented but not receive final finished, in advance.

9.2 Any deleterious materials and debris deposited in the area are to be taken up by a tracked 360° excavator working from outside the root protection area. Final clearance shall be undertaken by hand picking.

9.3 The proposed areas of 'no-dig' construction within root protection areas shall be carried out in the following manner, subject to the manufacturers and engineers instructions.

9.3.1 Existing surface vegetation of grass is to be treated with Glyphosate herbicide to the manufacturer's recommendation. The surface mat may be removed to a maximum of 50mm depth.

9.3.2 Sharp sand is to be imported and spread over the area by hand equipment (wheelbarrows, shovels and rakes only) to bring the surface to an even level.

9.3.3 A geotextile material such as Fibretex F4m is to be laid on the surface of the ground in the area of the proposed car park.

9.3.4 A 3-dimensional cellular confinement material such as Cellweb Tree Root Protection System supplied by Geosynthetic Technologies Ltd is to be laid on top of the geotextile membrane.

9.3.5 Edging supports of railway sleepers or other treated timber are to be laid and pinned to the ground preferably through the cell confinement material.

9.3.6 The cells are to be filled with a no-fines aggregate commencing at the leading edge of the works and progressing forwards. Material can be imported to, and spread within, the working area by small excavators not exceeding 2 tonne capacity providing they work only off the filled cells area.

9.3.7 The final wearing course will be laid after the main construction works are complete.

9.3.8 Typical details of construction are shown at Appendix 1

9.3.9 Details of this construction must be verified by a qualified engineer.

10.0 Excavations proximate to root protection areas

10.1 Excavations are proposed proximate to the root protection area of retained trees.

10.1.1 Foundations for the extension on the north west corner of the dwelling will require continuous strip footings

10.2 The excavations shall proceed with caution to ascertain if roots in excess of 25mm diameter are present. Given the distance to the tree (tree 15) it is unlikely. If they are present a photograph shall be taken and the arboriculturist contacted to provide advice.

10.3 All machinery necessary to undertake the excavations shall operate outside the areas protected by temporary barriers and those areas of ground protection.

10.3 Removal of spoil shall be via areas of ground protection or temporary trackway laid outsid the root protection area of retained trees.

11.0 Reinstatement and landscaping

11.1 Final grading to marry in new levels with existing ground will be achieved by importing topsoil and spreading by hand equipment only. The newly graded areas will be grass seeded or turfed by hand.

11.2 All tree and shrub planting pits will be dug by hand within the root protection areas of existing trees.

12.0 Planning, communication and supervision

12.1 A list of useful contacts is attached at Appendix 2.

12.2 Given the small scale of the works and the remoteness from trees there is no need to undertake monitoring by an arboriculturist during the works. An arboriculturist can provide advice in relation to the works as and when required.

12.3 Should any problems arise on site, the site manager will immediately inform the appointed arboricultural consultant who will assess the situation and make recommendations accordingly. If any modifications to the method statement are proposed, the arboricultural consultant will immediately advise the local authority arboricultural officer.

12.4 The site manager will brief all site personnel on the implications of the arboricultural method statement. A copy of this method statement will be available on site at all times.

13.0 Transgression

13.1 Failure to adhere to the requirements in this method statement may result in a Stop Notice being issued by the local authority. This will bring all operations at the site to a halt until the local authority permits resumption.

13.2 Failure to adhere to the requirements of this method statement that results in damage to a tree subject to a Tree Preservation Order may result in prosecution of the individual, the contractor and the client.

13.3 The following measures will be required, but do not absolve the perpetrator from action, if the identified transgression occurs:

a) Breakage of branches – the damaged shall be assessed by an arboriculturist, they shall advise on requirements and any pruning shall be undertaken in accordance with BS3998:2010 to remove the damaged section.

b) Damage to bark – the damage shall be assessed by an arboriculturist and they shall advise on the measures that can be taken to optimise the reparation of the damage. Some paring back of damage may be required.

c) Damage to roots – the damage shall be assessed by an arboriculturist and they shall advise on the pruning or reparation required.

d) Compaction of soil – where machinery operates outside of ground protection and hard surfaces, leading to the compaction of soil, the compaction shall be alleviated by using compressed air injected to circa 1m deep to create fissures in the ground and lift the compacted areas. The compaction shall be assessed by an arboriculturist. A specialist company (for example Terrain Aeration Ltd) shall be appointed by the contractor to undertake the work.

13.4 All items of transgression shall be reported to the Local Authority tree officer to consider if action should be taken.

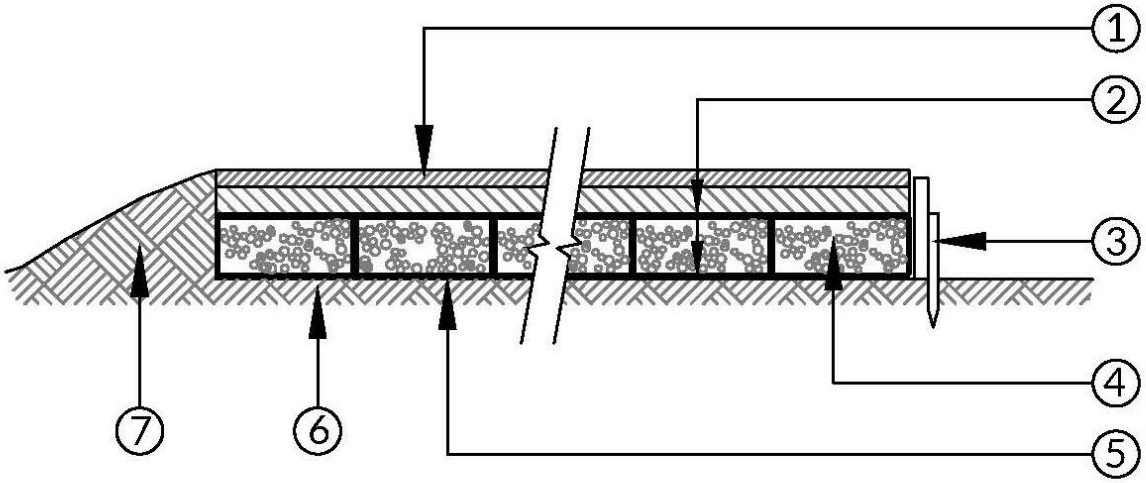
14.0 Conclusion

14.1 If the provisions of this arboricultural method statement are complied with in full, the proposed works will be able to proceed without detrimental impact to retained trees.

Appendix 1

Typical detail of no-dig construction

Figure 3: Typical detail of 'no-dig' surfacing



1. Surface material to engineer's specifications
2. Geotextile separation fabric as specified by engineers
3. Treated timber edging if required (sleepers can be used for a more robust edge)
4. 40/20mm clean angular stone
5. Cellular confinement system to engineer's specification and depth
6. Existing ground levels retained (no excavation)
7. Soil fillet can be used at edges

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Appendix 2

List of contacts

List of contacts

Site Address:	Langstone Lodge 1 Langstone High Street Langstone Hampshire, PO9 1RY	
Site Manager:	To be decided (TBD)	Tele No:
Builder:	TBD	
Address:	TBD	
Contact Name:	TBD	
Arboricultural Consultant:	Jago Keen	
Address:	Keen Consultants The Studio Timbers Gables Road Church Crookham Fleet Hampshire GU52 6QY	
Tele No:	01252 850096 (office)	(mobile) 07836 279935
Local Authority Tree Officer	Maria Stewart Havant Borough Council	
Email:	Maria.stewart@easthants.gov.uk	
Telephone No.:	01730 234214	