

**Arboricultural Method Statement
Land Adjacent to 71 Woodhead Road
Honley**

Report Reference: TCC-1189-1
14th August 2019

Table of Contents

1	Introduction	3
2	Tree Work	3
3	Tree Protective Fencing	3
4	Demolition	5
5	Resurfacing Within the RPA'S	5
6	Services	6
7	Material Storage	7
8	Site Supervision & Monitoring	7
12	Contact Details	8
13	Additional Precautions	8

Appendices

Appendix 1: Tree Detail and Protection Measures
Appendix 2: Tree Protection Plan
Appendix 3: Tree Protective Fencing Signage
Appendix 4: Site Inspection Form

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1 Introduction

1. This document has been produced to accompany a planning application for a proposed residential development at the above address.
2. An Arboricultural Method Statement (AMS) is often required to ensure the welfare of retained tree cover during the construction phase of development. It is based on the assumption that the minimum general standards for development are those set out in British Standard BS5873:2012 '*Trees in relation to design, demolition and construction*'- *Recommendations*.
3. This method statement is based upon the supporting information that accompanies the planning application.
4. **This document is to be made available to all operatives** on site during the construction process, so that they understand the scope and importance of the AMS. It should also be supplied to any subcontractor prior to their arrival on site. This document sets out the methodology and timing of work necessary to ensure successful tree retention both during and post development.
5. A BS5837 Tree Survey and accompanying Tree Constraints Plan were produced by Tree Care Consultancy in March 2019 and serves to inform the AMS.
6. The AMS should be read in conjunction with the Tree Detail at appendix 1 and the Tree Protection Plan (TPP) at Appendix 2.

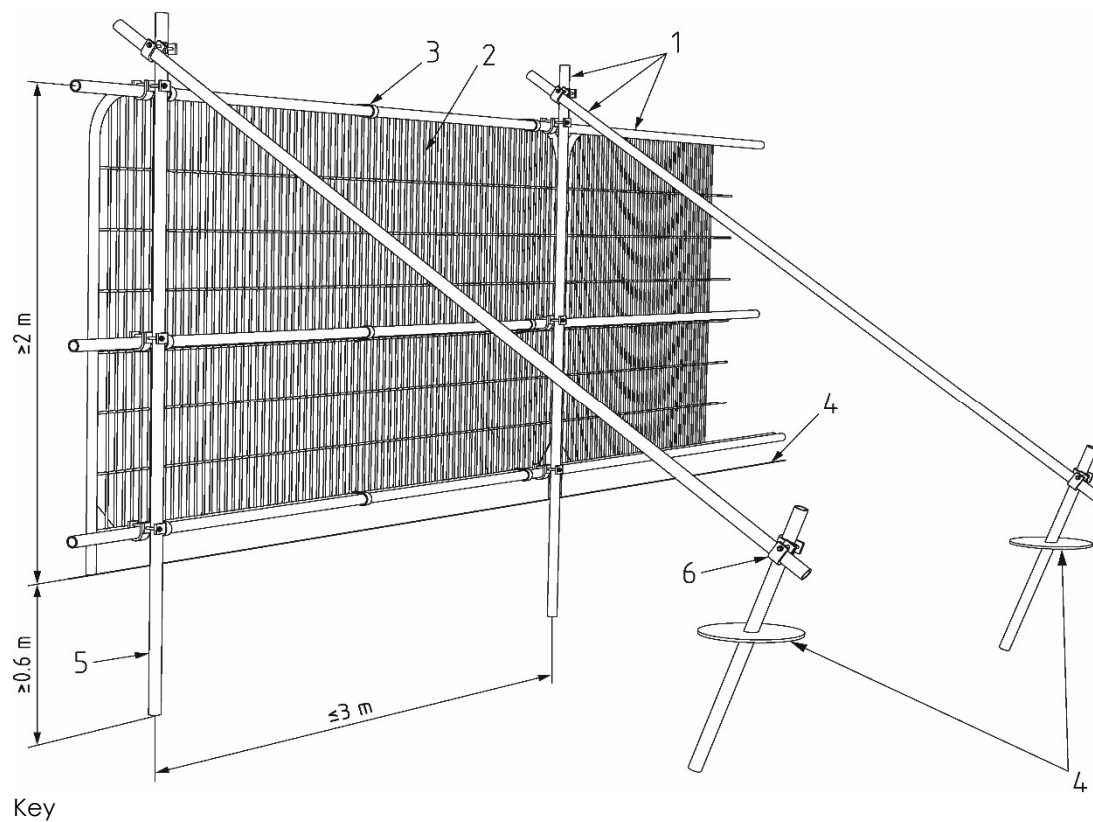
2 Tree Work

7. The Scheme will not require any tree removal or facilitation pruning.

3 Tree Protective Fencing

8. Any tree scheduled for retention will require protection in accordance with BS5837, regardless of its initial retention category. The protection must be undertaken prior to any work beginning on site.
9. A protective fence will be erected prior to the commencement of any site works and before any materials or machinery is brought on site. The location of the TPF is depicted by the crimson lines on the TPP and will not be removed or altered whilst construction work is in progress other than with the prior agreement of the project Arboriculturist in consultation with the local planning authority. Once erected all protective fencing will be regarded as sacrosanct and the barriers will create the 'Construction Exclusion Zone' (CEZ).

10. The diagram below demonstrates the required fence specifications of BS5837:2012 Figure 1 for areas of high risk.



- 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

11. Once installed the fencing will remain in situ in a good, robust condition until the development is completed. It will only be removed on completion of the scheme.
12. Signage will be attached to the fencing stating its purpose. The signs will be attached every 5m and be waterproof. An example sign has been included in appendix 3.
13. The fencing will be inspected at regular intervals by the Project Arboriculturalist. The findings of each inspection will be documented in the attached assessment sheet located in appendix 4.

14. The following activities may not take place within the CEZ's:-

- No trenching, mechanical or manually unless it has been approved by the local planning authority and is supervised by the Project Arboriculturalist
- No vehicle access
- No storage of materials or plant within the CEZ
- No mixing of materials will take place upon a slope where they may leach into the CEZ
- No fires will be lit within 20 metres of any tree stem and caution must be given to fire size and wind direction so that no flames come within 5m of any foliage

4 Demolition

15. No Demolition work will be required.

5 Resurfacing Within the RPA'S

16. Previous alterations to soil levels and ground disturbance are evident in this area, therefore it is recommended the entire driveway be constructed using the "no dig" technique. As demonstrated on the TPP this area will be constructed utilising a "no dig technique" avoiding root severance and ground compaction from the outset of construction work. Construction will incorporate a geogrid, porous surface treatment, with surfacing above grade being retained by edging to avoid damaging the trees rooting environment. More particularly because the initial few metres of the proposed access will pass over the RPA of T4-T7 and it is necessary to install the "no dig" Cellular Confinement system at an early stage of the construction zone immediately following the installation of the TPF.

17. The work should be completed using the following guidance.

- Remove major protrusions including large stones by hand. Wherever practicable maximum level drop to be 50mm. Fill any major hollows with sharp sand.
- Install the non-woven Geotextile membrane directly over sub grade at soil grade level and fix in place. See .
- Lay out over the Geotextile membrane and the Cellular Confinement System (CCS) and ensure edges are anchored open during the infill process with steel staples or wooden pegs.
- Fill the CCS ensuring machinery works only on already filled areas and not the sub grade. Infill with no fines angular granular material 20-40mm.
- Install a treated peg and board edging directly on top of existing grade level. The edging shall be held in place with track or road pins. The edge restraint should then be concealed by localized grading of adjoining ground levels with the use of good quality top soil.
- Install a final gas-permeable surface such as gravel or open jointed pavers at the end of the construction phase with a view to minimizing damage to finished surface.



Figure.2. Example Cellular Confinement System (CCS)

6 Services

18. No new services or soak-a-ways are to be sited or constructed within the RPA of any retained tree. Should this become necessary due to unforeseen site circumstances, no work is to be undertaken without first consulting the Project Arboriculturalist and local planning authority. Should it become necessary these must be installed using techniques and methods described at section 4.1 of the current edition of the National Joint Utilities Group (NJUG) Guidelines for the Planning, Installation and Maintenance of Utility Apparatus in Proximity to Trees (www.njug.org.uk) or if this is not practicable, trenches are to be opened by compressed air excavation tools and not mechanically dug.

7 Material Storage

19. There is sufficient space for deliveries, material storage and cement mixing out with the Construction Exclusion zone. No material storage will take place around the trees highlighted for retention.

8 Site Supervision & Monitoring

20. The appointed Arboricultural Consultant will be responsible for the monitoring of all operations in relation to Arboricultural issues.
21. Tree protection measures shall be monitored by the appointed specialist who will meet with the contractor and site manager prior to the commencement of the development to explain the tree protection requirements.
22. In accordance with item 6.3 of BS5837 2012 the appointed specialist shall submit the completed inspection form (located in appendix 1) with accompanying photographic evidence **on a monthly basis** to the client and site manager.
23. The table below will be completed and signed by the Project Arboriculturalist and site manager following the completion of each phase. The Local Authority Tree Officer will be provided with photographic evidence to show the successful installation of the Tree Protection Fencing and new surfacing within the RPA of retained trees.

Phase/Work Description	Additional Comments	Date of Completion	Signed Project Arboriculturalist	Signed Site Manager
Pre site meeting				
Installation of Tree Protection				
Supervision of New Surfacing Within the RPA's				

12 Contact Details

24. The table below has been included to ensure all lines of communication are established prior to the initiation of any work included within this document.

Role	Name	Contact Details
Developer	Peter Mitchell	07764686484
Site Foreman		
Project Architect	Alan Davies (Northern Design Partnership)	01484 854848
Local Authority Tree Officer	Nick Goddard	01484 414909
Project Arboriculturalist	Mike Shackleton	07816352028

13 Additional Precautions

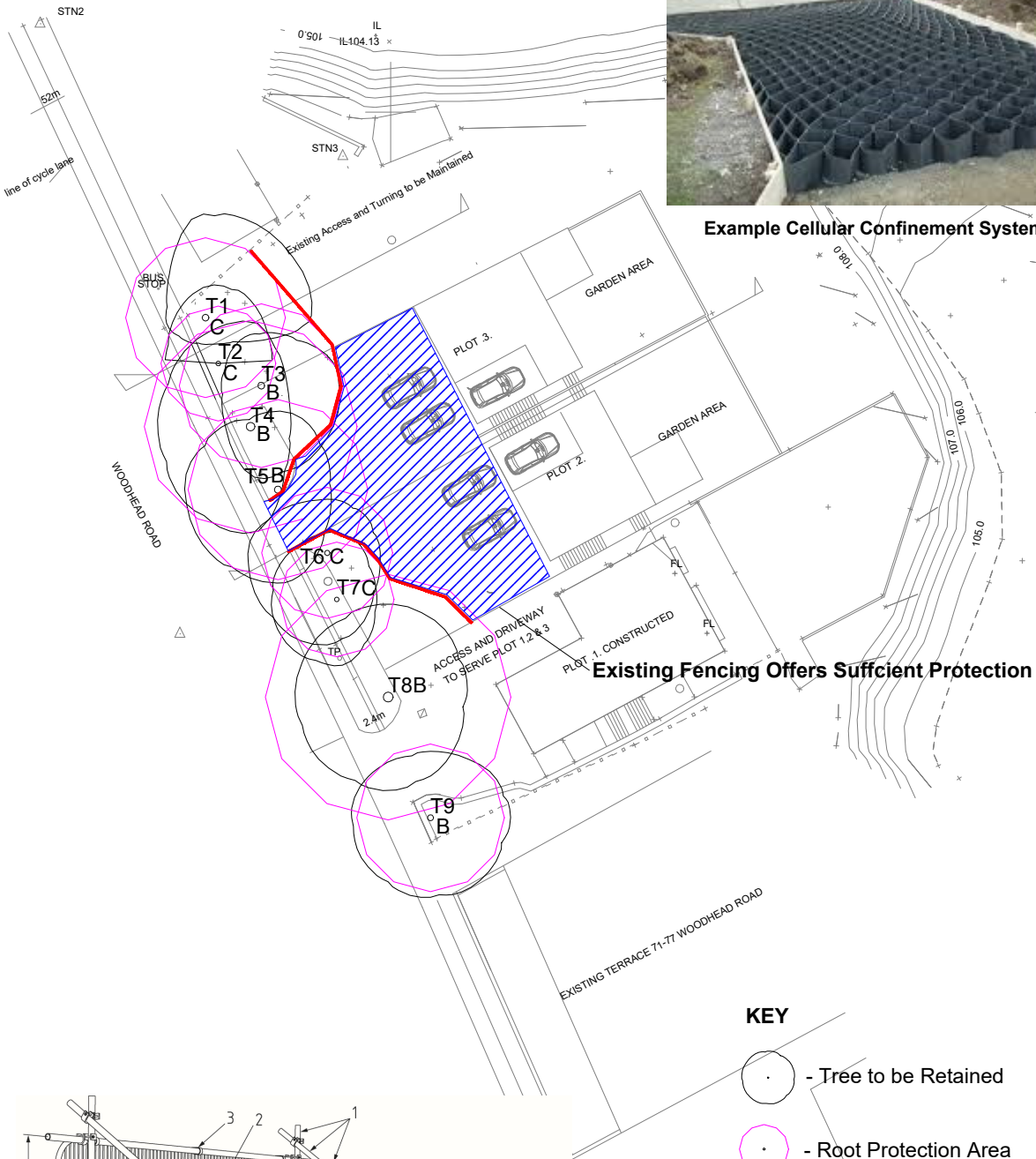
25. No notice boards, cables or other services will be attached to any tree.
26. Materials which may contaminate the soil will not be discharged within 10m of any tree stem. When undertaking the mixing of materials it is essential that any slope of the ground does not allow contaminants to run towards a tree root area.
27. Water must be readily available on site and will be used to flush spilt materials through the soil and avoid contamination to tree roots. At the time of any spillage the main contractor will contact the Project Arboriculturist for advice.

Appendix 1- Tree Detail & Protection Measures

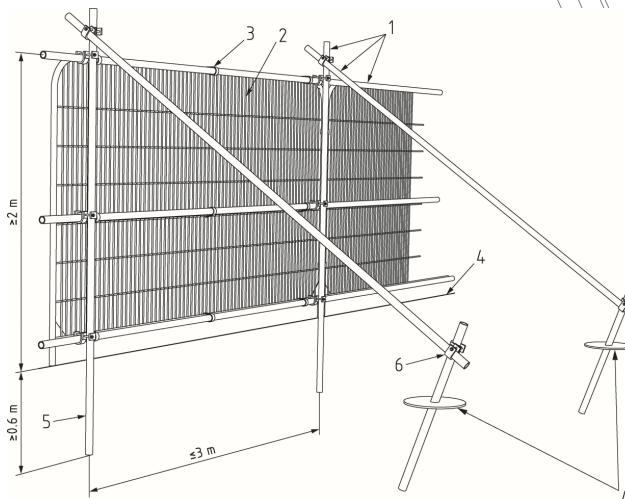
Tree ID	Species, Botanical Name	Stem @ 1.5M (mm)	Spread - N,E,S,W				Crown height+ direction (m)	Life stage	Action/Work Required	Protective Measures	Retention category	RPA Radius (m)
T1	Sycamore, <i>Acer pseudoplatanus</i>	350 & 340	8	8	2	3	8-n	Early-mature	No action.	Retain and protect during development.	C2	5.9
T2	Sycamore, <i>Acer pseudoplatanus</i>	350	6	4	0	4	9-n	Early-mature	No action.	Retain and protect during development.	C2	4.2
T3	Sycamore, <i>Acer pseudoplatanus</i>	500	4	6	7	3	7-s	Early-mature	No action.	Retain and protect during development.	B2	6
T4	Sycamore, <i>Acer pseudoplatanus</i>	650	8	3	8	7	6-s	Mature	'No Dig' installation within the RPA to be supervised by the Arboriculturist.	Retain and protect during development.	B2	7.8
T5	Sycamore, <i>Acer pseudoplatanus</i>	550	6	4	7	7	8-s	Early-mature	'No Dig' installation within the RPA to be supervised by the Arboriculturist.	Retain and protect during development.	B2	6.6
T6	Sycamore, <i>Acer pseudoplatanus</i>	400	4	4	7	6	6-s	Early-mature	'No Dig' installation within the RPA to be supervised by the Arboriculturist.	Retain and protect during development.	C2	4.8
T7	Sycamore, <i>Acer pseudoplatanus</i>	350	5	3	5	5	7-s	Early-mature	No action.	Retain and protect during development.	C2	4.2
T8	Sycamore, <i>Acer pseudoplatanus</i>	750	7	6	7	7	9-s	Mature	No action.	Retain and protect during development.	B2	9
T9	Sycamore, <i>Acer pseudoplatanus</i>	450	5	6	6	6	8-e	Early-mature	No action.	Retain and protect during development.	B2	5.4



Example Cellular Confinement System (No Dig)



Existing Fencing Offers Sufficient Protection



Default Specification for Tree Protective Barrier

KEY

-  - Tree to be Retained
-  - Root Protection Area
-  - Line of Tree Protective Fencing
-  - 'No Dig' Cellular Confinement System



Tree Protection Plan

Land Adjacent to 71 Woodhead Road, Honley

SCALE : 1 : 500 @ A4 DATE : 15/08/2019

MAP FILENAME :TCC-1189-1



Tree Care Consultancy Ltd, Clifton Villa, 37 Hall Cliffe Road
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Phone: 01924 270619, Email: info@treecareconsultancy.co.uk

Arboricultural Site Inspection

Site: _____
Application Ref: _____
Developer: _____
Site Agent: _____
Arboricultural Consultant: _____
Date of Inspection: _____ LPA Tree Officer: _____
Accompanied by: _____

Fencing/Ground Protection

In place/intact?	☐	Signs present?	☐
Erected as required?	☐	Any evidence of breach?	☐

Details including action to be taken: _____

Construction Exclusion Zone

CEZ to approved dimensions?	☐	Evidence of damage?	☐
Any evidence within the CEZ of:	☐		
Excavations?	☐	Changed soil levels?	☐
Ground contamination?	☐	Vehicle movement?	☐
Storage of materials?	☐	Fires?	☐

Details, including action to be taken: _____

Any special works potentially damaging to trees proposed for the future?

Any amendments to proposed plans?

Details: _____

Signed: _____ Sent to: (circle) Site Manager, Site Agent, Tree Officer, LPA Officer

Appendix 4 – British Standards Signage

