

Construction Method Statement

Introduction

This Construction Method Statement (CMS) ensures that the trees mentioned in the Arboricultural Report are safeguarded and not damaged during construction at 2 Ebury Close, Northwood, HA6 2PF. The following Construction Method Statement has been made based on the Arboricultural Method Statement attached as a separate PDF. This CMS document outlines the procedure of works required to carry out the works subject to approval.

Site Details

- Contractor:** The Market Design and Build
- Project name and site address:** 2 Ebury Close, Northwood, HA6 2PF
- Project Manager:** Thomas George
- Site manager:** TBC
- Site Access:** Access to the property is currently gained via a driveway to the front (south) of the site.

Work Activity

Site clearance or any construction work will only occur after the measures below are in place to ensure that the trees mentioned in the Arboricultural Method Statement are safeguarded and not damaged during construction.

1. TREE PROTECTION BARRIERS

- To ensure the trees' safety, the position of the proposed protective fencing for the site is shown on the Tree Protection Plan (TPP) attached below in Appendix A by a **pink** line. The position of the fence will be marked out with biodegradable marker paint on site, and the markings will be agreed upon with appropriate representatives from the Local Planning Authority.
- After which, the fencing will be erected before any works in the vicinity of the trees and removed only when all development activity is complete. The protective fencing will be per BS5837, as shown below in Figure 1:

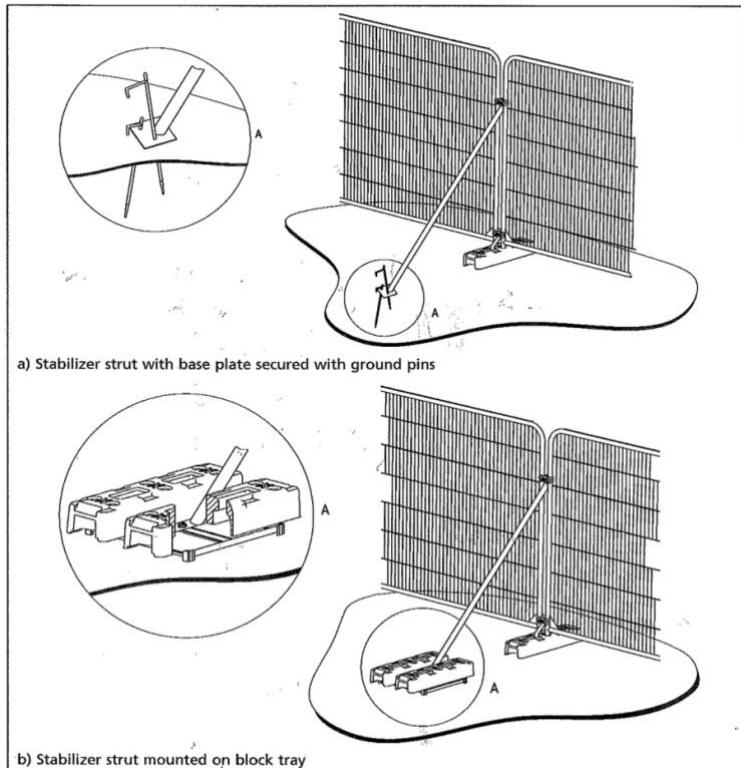


Figure 1. Protective Fencing

- The herras panels will be joined together using a minimum of two anti-tamper couplers, which will be installed so they can only be removed from the inside of the fence. The panels will be supported by stabiliser struts, which will be installed on the inside and secured to the ground using pins or appropriate weights.
- It shall not be removed or breached during operations without prior consultation with an arboricultural specialist and the approval of the Local Authority.
- No activities or materials shall be allowed within the fenced-off area. Notices should be erected on the fencing with such words as "Protected Area – no operations or materials within the fenced area."
- The Fence will be marked with a clear sign at regular intervals throughout the site and should be maintained until the completion of all development works, as shown below in Figure 2



Tree Protection Areas - Construction Exclusion Zones

INSTALLING PROTECTION Protective barriers and ground protection (as approved), must be installed before any materials or machinery are brought onto the site and before the commencement of any demolition, general site clearance, ground or construction works of any description.

RETENTION OF PROTECTION All protective measures must remain fully intact, vertical (in the case of barriers), in their approved locations from the outset of the development and maintained at all times until all works have been completed on site, including any earthworks and associated soft landscaping works. Any approved phasing of protective measures must be fully observed and complied with.

RESTRICTIONS Tree Protection Areas/Construction Exclusion Zones are to remain completely undisturbed for the duration of all development works. No construction activity of any description including, but not limited to the following, must occur within these areas at any time.

- No excavation of any description.
- No storage, disposal of soil, rubble or materials of any other description.
- No alterations to existing levels or ground conditions.
- No vehicular access, parking or use of any tracked or wheeled machinery of any description.
- No tree works without the written consent of the Council's Tree Service.
- No erection of temporary structures of any description.
- No fires.
- No storage disposal, handling or use of any chemicals including cement washings.
- No fixtures or fittings of any description - security lighting, signage, etc. shall be attached to any part of a tree.
- No fires shall be lit within 10 metres of the canopies of any tree or spread of any hedge.
- No chemicals, fuel, liquids/waste residues of any other description to be stored or disposed of within close proximity to, or drained towards, protection areas.

PROTECTION AREA SIGNAGE All weather notices as below, or similar, to be fixed to protective barriers at regular intervals (maximum spacing 5m) throughout site and maintained until completion of all development works.

PLANNING COMPLIANCE The protective measures detailed on this drawing are a legal requirement. Failure to protect the trees/hedges in full accordance with the approved scheme may lead to enforcement action being taken by the Local Authority.

All protection measures shall be routinely monitored by an appointed suitably qualified arboricultural advisor at 4 week intervals minimum for the duration of all works.
A signed copy of inspection report following each visit is to be sent to the Local Authority Planning Department.

Figure 2. Protection Area Signage

2. GROUND PROTECTION - Lightweight access only

The areas outlined in **orange** hatching, as shown in Appendix A on the appended plan, will require ground protection to ensure that soil erosion or excessive compaction does not occur. To ensure these following measures will be followed:

- This area MUST be covered with a ground protection permeable membrane.
- And areas where a 1.5tonne mini digger needs to access, on top of the permeable membrane, a 150mm layer of compressible woodchip overlaying it; an 18mm marine ply board will then be secured on top of the woodchip to ensure no significant compaction or soil erosion occurs.
- The hard surfacing on the driveway provides adequate ground protection and MUST be retained in situ for the entirety of the site works.
- The patio to the rear, as shown in the plans in Appendix A, will be installed as part of soft landscaping.
- Machines and power tools will only be used within the RPA zone at any stage of the work if agreed with the local authority.

3. BOUNDARY MEASURES

- Boundary fencing/ installations will be undertaken as part of soft landscaping and will only be installed when all machinery on site from the leading site has permanently left the site.
- Also, if the new/ upgraded fencing is located within the Root Protection Area of any tree that has to be retained, the work for these areas will be done using hand tools only. Also, the locations of the new fence upright posts will be confirmed only after trial digs to verify that no significant (over 25m) roots are present; if any such roots are identified during trial digs, the location of the posts will be altered.
- If, during this process, any small roots are identified, these will be cut using sharp tools to leave a clean cut to minimise the risk of infection by decay pathogens. And the post holes within the Root Protection Area will be lined with plastic sheeting before any concrete or cement is placed into the hole so that there is no risk of leaching into the nearby soil as the mixture dries.

4. MIXING OF CONCRETE

All mixing of cement/concrete will be undertaken outside the Root protection area of all the trees marked in orange, as shown in the plan in Appendix A.

5. DELIVERY, STORAGE, WELFARE FACILITIES

- Materials will be stored on the front side of the site and outside the Root Protection area in orange and outside of the tree protection barriers (pink lines), as seen in Appendix A.
- All welfare facilities and site huts will be positioned outside the retained trees RPA.

6. ON-SITE SUPERVISION

- All potentially damaging activities near the trees will be adequately ensured by regular site supervision.
- The site manager and retained Arboriculturalist will devise a supervision programme, ensuring that Arboricultural supervision is present at the appropriate periods during construction. These site monitoring visits and supervision records will be recorded on the site monitoring sheet in Appendix B. If requested, a photo record of each visit will also be kept and supplied to the local planning authority.
- A pre-start site meeting will be conducted to ensure that all parties know their responsibilities relating to tree protection on site.
- Key stages at which the Local Authority Arboricultural officer or Retained Arboriculturalist will be informed about the progress of the works are as follows:
 1. Marking of the position of the fence
 2. Erection of protective fence
 3. Laying on Ground Protection
 4. Trench Excavation at the rear side
 5. If any relocation of the protective fence needs to be made

Key personnel

Name	Position	Contact
Clen harding	Retained Arboriculturalist	info@ghatrees.co.uk
TBC	Local Authority Arboricultural officer	TBC
Thomas George	Project Manager	TBC
TBC	Site Manager	TBC

7. OTHER TREE PROTECTION PRECAUTIONS

- NO fires lit on-site within 20 metres of any tree to be retained.
- NO fuels, oils or substances damaging to the tree shall be spilt or poured on site.
- NO storage of any materials within the root protection zone.
- Immediate contact will be made with the local authority and/ or retained arboriculturist in the event of any related tree problems, whether actual or potential.

CONCLUSION

- Following the above measures, trees and other vegetation can and will be retained on site and not damaged during construction.
- Any activity that has the potential to cause harm to any tree will be stopped and will be consulted with Local Planning Authority.



Appendix A

TREE PROTECTION PLAN (see separate PDF)

DESIGN PACKAGE • ROOF WORKS • LOFT CONVERSIONS • EXTENSIONS • NEWBUILDS

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Appendix B

Site Monitoring Sheet

Site:											
Project:											
Client:		Contact:									
Site monitoring inspection date:		Name of inspector:									
Notes:											
Action required to rectify any issues:											
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