

METHOD STATEMENT for
TREE MANAGEMENT and PROTECTION

PURPOSE
This Arboricultural Method Statement describes who will take responsibility at each stage of construction and the methods and materials required to manage and protect the trees on site.

TEAM DETAILS		
ROLE	NAME	EMAIL/ TELEPHONE
DEVELOPER	•	•
MAIN CONTRACTOR	•	•
SITE MANAGER	•	•
PROJECT ARBORICULTURALIST	• Andrew Belson	•
TREWORK CONTRACTOR	•	•
LOCAL AUTHORITY TREE OFFICER	•	•
PROJECT ECOLOGIST	•	•
DESIGNER	•	•
PROJECT ENGINEER	•	•
	•	•
	•	•
	•	•

**STAGE 1
ENABLING WORKS**

TREE WORKS

GENERAL

- Tree work is skilled and potentially dangerous work, which must be carried out by trained and certificated staff working to BS3998: 2010 and working in accordance with the various Regulations within the Health and Safety at Work Act 1974.
- Contractors will have Public Liability Insurance (preferably £5 million) and Employer's Liability Insurance (preferably £10 million).
- Machinery and equipment must be maintained, inspected and operated in accordance with the various Regulations within the Health and Safety at Work Act 1974.

WORK REQUIRED

- Remove the following trees:

REF.	SPECIES
N12	Norway Spruce
1077	Horse Chestnut
1079	Horse Chestnut
1083	Horse Chestnut
- Remove dead wood greater than 25mm Ø from Beech 1089.
- Re-pollard Lime 1093 - 1095.
- Laterally reduce the southeastern crown of Lime 1078 by up to 2m to clear the building at Unit 11.
- Laterally reduce the Northern crown of Beech 1089 by up to 2m to facilitate construction.
- Laterally reduce the southeastern crown of Horse Chestnut 1097 by up to 2m to facilitate construction.

DEMOLITION

NO.	MATERIALS	NOTES
1	Weldmesh panels on robust scaffold frame	Once the treeworks are complete, a barrier to Fig 2 BS5837 will be erected where shown by the broad blue lines on the Tree Protection Plan (see notes on barriers below).
2	Weldmesh panels on offset support blocks with lateral struts	Once the treeworks are complete, a barrier to Fig 3 BS5837 will be erected where shown by the dashed blue lines on the Tree Protection Plan (see notes on barriers below).
3	Scaffold planks or a hired-in ground protection sheeting system	Ground within the root protection areas of trees that cannot be fenced will be protected with scaffold planks or a hired-in sheeting system laid over a 50mm thick covering of chipped woodchips before demolition starts and be retained in-situ until the end of the main development period. Areas for ground protection are shown by the blue crosshatch on the drawing.

NOTES ON DEMOLITION

- Once the barriers have been erected and ground protection laid, the demolition will be carried out.
- Machine will be operated wherever no part of their structure comes into contact with the trees.
- Plant will be re-fueled and serviced at least 10 metres from the edge of the Root Protection Areas.
- Any plant with known fuel or other fluid leaks will only be operated near the trees whereby the leaks can be retained in absorbent mats or trays.
- No fires to be lit on site.

BARRIERS

- Weather-proof notices stating: 'PROTECTED AREA - DO NOT ENTER' to be erected on barriers not less than 5m apart, (example on plan).
- Barriers will remain in place until the end of the demolition phase before being moved to the CONSTRUCTION locations.

SUITABLE HIRED-IN GROUND PROTECTION

- LIVE (formerly Eel) provide Trakway access systems in timber, aluminium or plastic for a variety of potential loads. See <http://www.detrakway.com> for more details or call (0870 76 76 76).
- Alternatively, Ground-Guards provide a range of ground protection mats from lightweight to heavy-duty. See <http://www.ground-guards.co.uk> for more details or call 01313 267 6000.
- Start Traffic Ltd stock medium and heavy-duty ground protection mats with coarse tread patterns to provide traction in all weathers. See <https://starttraffic.uk/> for more details or call 01905 700 340.

**STAGE 2
CONSTRUCTION**

NO.	MATERIALS	NOTES
1	Weldmesh panels on robust scaffold frame	Once the demolition is complete, the barriers will be checked and brought back to specification if required where shown by the broad blue lines on the Tree Protection Plan.
2	Weldmesh panels on offset support blocks with lateral struts	Once the demolition is complete, the barriers will be checked and brought back to specification if required where shown by the dashed blue lines on the Tree Protection Plan.
3	Scaffold planks or a hired-in ground protection sheeting system	Ground within the root protection areas of trees that cannot be fenced will be protected with scaffold planks or a hired-in sheeting system laid over a 50mm thick covering of chipped woodchips before any construction starts and be retained in-situ until the end of the main development period. Areas for ground protection are shown by the blue crosshatch on the drawing.
4	Cellular confinement geoweb and no-fines aggregate	To construct the parking bays, shed bases and pedestrian paving, the areas denoted by the orange hexagonal hatch will be covered over the existing surface level so far as practical with the use of a cellular confinement system and finished with a water and air permeable surface. (see Notes on construction of access and parking bays below).

GENERAL PRINCIPLES OF SITE MANAGEMENT FOR TREE PROTECTION

- No fires will be lit on site.
- No storage or discharge of materials within 5 metres of a tree bole.
- No mixing of cement or dispensing of fuel or chemicals within 10 metres of a tree bole.
- Any damage that occurs to the trees during construction will be rectified to BS3998: 2010.
- Trees must not be used as anchor points for winching or for supporting wires/cables.
- Plant will be re-fueled and serviced at least 10 metres from the edge of the Root Protection Areas.
- Any plant with known fuel or other fluid leaks will only be operated near the trees whereby the leaks can be retained in absorbent mats or trays.

INSTALLATION OF SERVICES

- The default location for any trenching for the installation of services or other excavations for soakaways etc. will be located at least 1m from the radial extent of the RPAs drawn.
- Excavations for services inside Root Protection Areas will be carried out under arboricultural supervision.
- Any roots found will be worked around where practical.
- Any damaged roots will be pruned back to a suitable union by the Project Arboriculturalist using a sharp hand saw or by-pass secateurs.

CONSTRUCTION OF PARKING BAYS, SHED BASES AND DOMESTIC PAVING

- All areas for paving to be installed over the existing ground level are denoted by the orange honeycomb hatch.
- Unless installed as a first construction operation, the areas denoted by the orange honeycomb hatch will be protected using the ground protection described above.
- The engineer will set out the areas for finished levels that take account of the full depth of the geoweb and paved finish whilst minimising excavation.
- The Project Arboriculturalist will be in attendance for the installation of the no-dig surfacing.
- The vegetable layer of soil will be removed to a depth of no more than 75mm.
- A filter membrane such as 'Terram 1000' will be laid over the excavated area.
- A cellular confinement geoweb of the appropriate profile depth will be laid over the membrane. Options include: Options include:
 - The Geoweb® Tree Root Protection System offered by Greenfix UK (see <http://greenfix.co.uk> for more details or call 01308 666027).
 - Celweb® Tree Root Protection (TRP) from Geosynthetics Limited (see <http://www.geosyn.co.uk> or call 01455 617 139).
- Where required, any edgings will be formed with timber edging boards supported by driven stakes or using a non-invasive system.
- The cellular confinement system will be backfilled with 20-40mm no-fines graded stone and compacted, adding more aggregate as necessary to bring to level.
- The prepared surfacing will then be protected for the remainder of the main construction period with a filter membrane laid directly over the cellular confinement system that is capped with a 150mm sacrificial layer of MOT Type 1 or hired-in ground protection.
- The prepared surface will be finished in accordance with the Approved Materials at the end of the main construction phase.

**STAGE 3
POST CONSTRUCTION**

- Once all the construction and hard landscaping works are completed and all plant and machinery has been taken off site, the protective barriers and ground protection will be removed before landscaping work begins.
- Soil cultivation within the previously protected zones will be carried out by hand only. No machine cultivation will take place within these zones whatsoever.
- Planting within the previously protected zones will be carried out by hand using hand tools only.
- Retained trees will be re-inspected post development by a qualified arboriculturalist and any works arising carried out within the time limits specified.

NOTES ON PAVING

SEQUENCE OF ACTIVITIES AND TEAM RESPONSIBILITIES

THROUGHOUT:	- A schedule of arboricultural inspections and monitoring will be carried out by the Project Arboriculturalist. - The Site Manager will maintain a record of inspections. - The Project Arboriculturalist will record findings and recommendations and provide a copy to the Local Authority Tree Officer to demonstrate compliance. - The Project Arboriculturalist and Site Manager will sign off the completed schedule at the end of the project.
PRE-COMMENCEMENT SITE MEETING	- The Project Arboriculturalist will meet with the Site Manager and Treework Contractor to discuss the treework required. - The Project Arboriculturalist will mark trees for removal. - The Project Arboriculturalist will meet with the Site Manager and Main Contractor to discuss the methods of tree protection.
STAGE 1: ENABLING WORKS	- Tree work must be the first operation, before any other activity on site involving plant, machinery or materials. - The Project Ecologist must be involved. - On completion of the tree works, protective barriers and ground protection will be installed where shown on the Tree Protection Plan before the demolition works are implemented.
STAGE 2: CONSTRUCTION	- Once demolition operations are complete, the barriers will be checked and tree protection measures will be in place and signed off by the Project Arboriculturalist and Site Manager before works commence. - The Site Manager will keep a copy of this Plan on site for reference during construction and for site induction where staff or contractors' work may implicate working near trees so they understand the purpose of the measures. - The Site Manager will assess the integrity of the protective measures as works progress. - Any shortcomings must be rectified to the original specifications immediately. - Outwith these works, the Project Arboriculturalist will attend site not less than monthly to supervise and review protection measures.
STAGE 3: POST-CONSTRUCTION	- Protective barriers and any ground protection will be removed before landscaping work begins. - The Project Arboriculturalist will inspect the trees on and adjacent to the site and identify any remedial works that might be required. - A schedule of works will be produced (where necessary) and circulated to the Local Authority Arboriculturalist for approval. - The Tree Work Contractor will implement the works. - The Project Arboriculturalist will sign off the works and produce a Completion Certificate to the Local Authority Arboriculturalist.

INSPECTION AND MONITORING SCHEDULE

KEY EVENT	ARBORICULTURAL ACTIVITY	TIMING	DUTY COMPLETED	SITE MANAGER'S SIGNATURE
Treeworks	Tree marking and discussion with contractors	Before construction		
Barriers for demolition works	Inspect barriers and ground protection	Before demolition		
Tree protection measures	Inspect barriers and ground protection	Before construction		
Check barriers and signage	Ongoing site responsibility. Arb to check when present	During construction		
Construction of paved surfaces in RPAs	Monitoring and supervision	During construction		
Remove barriers	Inspect trees and specify remedial work	Post construction		

ADDITIONAL

Post-completion all arboricultural works can be signed off below:

Arboricultural Consultant: _____ Site Manager: _____

Signature: _____ Signature: _____

Date: _____ Date: _____

PROTECTED AREA

DO NOT ENTER

(WITHOUT PERMISSION)

This barrier is designed to protect these trees.

PLEASE REPORT ANY BREACH IN THE BARRIER TO THE SITE MANAGER

Figure 2 Default specification for protective barrier

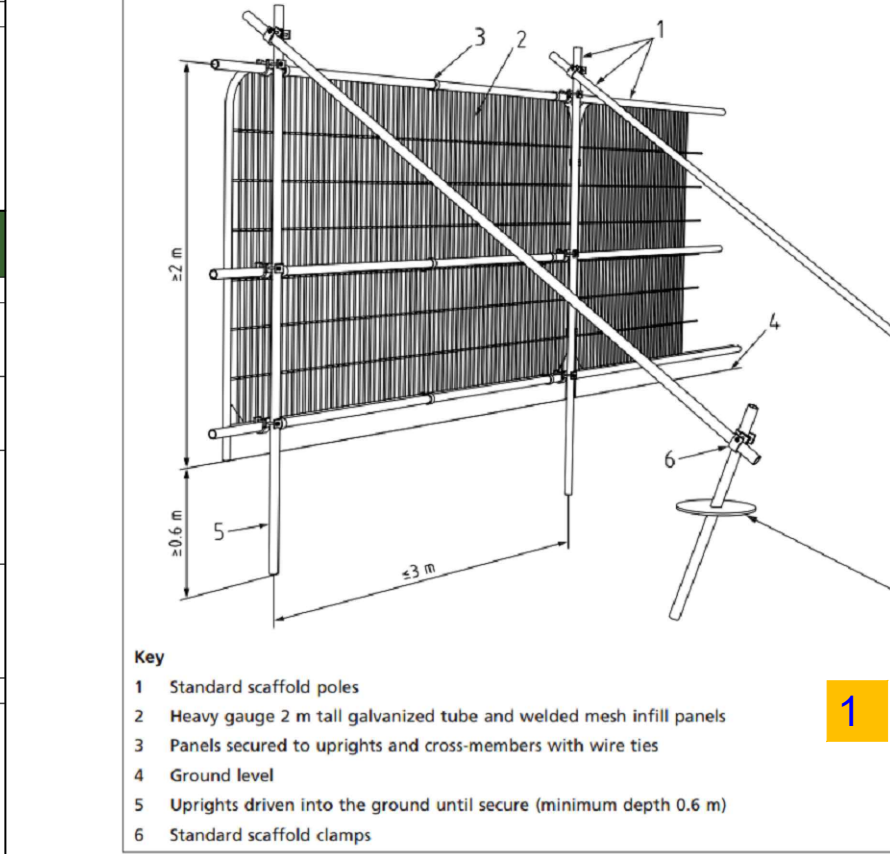
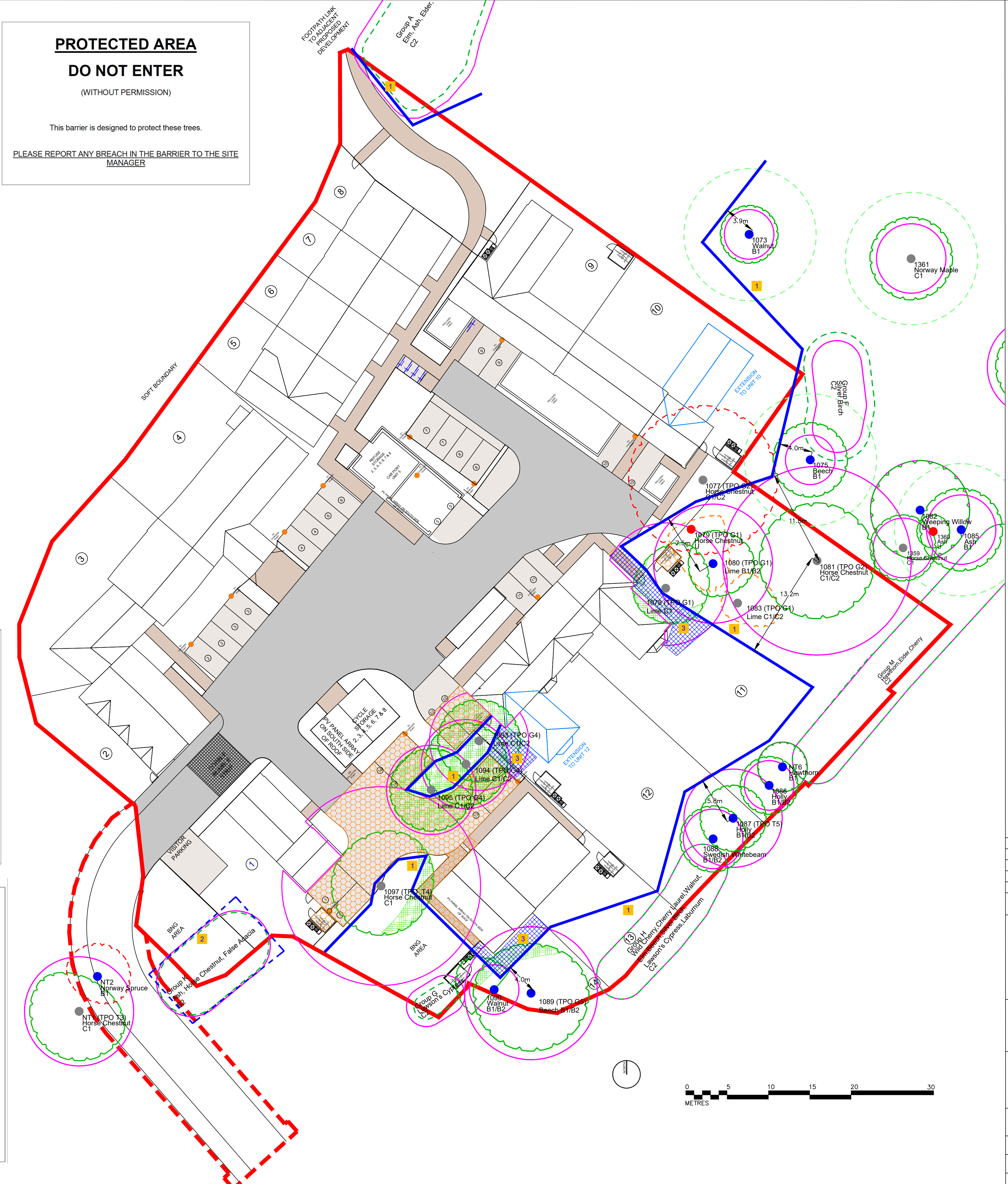
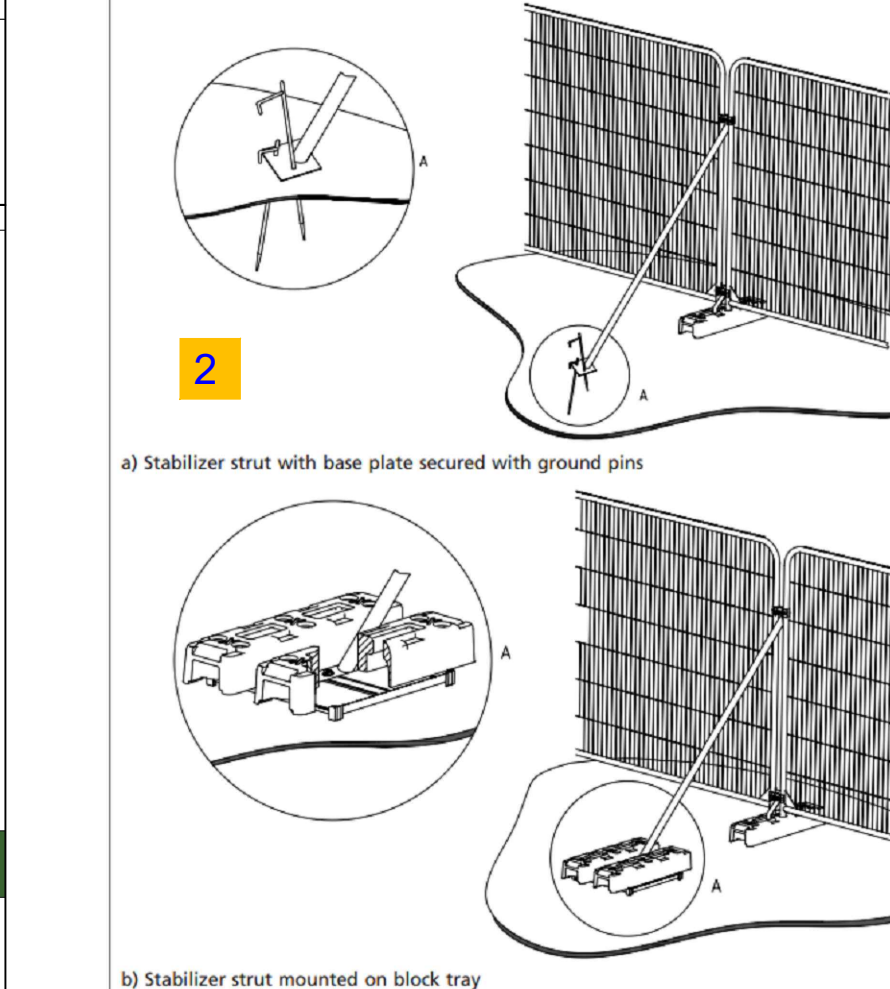


Figure 3 Examples of above-ground stabilizing systems



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NOTES Based on survey drawing HIGHHITC/200 PLAN and proposed site layout Z206.PL 05

The original of this drawing was produced in colour - a monochrome copy should not be relied upon.

KEY	
	ROOT PROTECTION AREA
	CANOPY OUTLINE - INDIVIDUAL TREE
	CANOPY OUTLINE - GROUPS
	TREES TO BE REMOVED
	TREES NOT SUITABLE FOR RETENTION
	BARRIER TO FIG 2. BS5837
	BARRIER TO FIG 3. BS5837
	AREAS FOR PRUNING
	GROUND PROTECTED WITH ROBUST SHEETING
	SURFACE CONSTRUCTED OVER EXISTING GROUND LEVEL WITH GEOWEB SUB-BASE

0 5 10 15 20 30 METRES

Rev Description Date

Purpose of Issue

Planning

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Client

Gill-Hudson Homes Ltd

Project

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Drawing Title

ARBORICULTURAL METHOD STATEMENT AND TREE PROTECTION PLAN

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