

1.0 INSTRUCTION

- 1.1 Tree Solutions Ltd has been instructed by Read Construction Holdings to provide an Arboricultural Method Statement (AMS) to satisfy and discharge Planning Conditions 4 & 5 of Planning Code No: P/2020/0497, extensions and remodelling of Barkers Lane CP School, Wrexham.
- 1.2 This Method Statement sets out the methodology and protection measures for all works within close proximity to trees located on and adjoining the site boundary indicated on the Tree Protection Plan at **Appendix 4**. All trees have been surveyed and are detailed within the tree survey schedule sheet at **Appendix 1**. Compliance with this method statement will be a requirement of all relevant contracts associated with the approved development. Copies of this document will be made available for inspection on site.
- 1.4 Trees to be retained and details including the designated Root Protection Area (RPA) and location of tree protective fencing are clearly indicated on the Tree Protection Plan Ref 20/AMS/WXM/269, Drawing No 1 which is at **Appendix 1** to this report.
- 1.5 The purpose of the AMS is to provide information on protection and control measures affecting the retained tree stock. The works, with applicable methodology, are divided into the sequence of operations at paragraph 4.0:

2.0 STATUTORY CONTROLS

- 2.1 Unfortunately Wrexham County Borough Council have no interactive map with Tree Preservation Order or Conservation Area details listed. This is however irrelevant as no works are proposed.

3.0 SITE PLAN

- 3.1 The observations and recommendations contained in this document relate to the following documents:
- Approved site layout plan Ref: BLS-TACP-A1-XX-DR-A-0702 (Rev P11) provided by TACP Architects
 - Approved Arbtech tree survey Ref: 200720-1154-TS-V1
- 3.2 The method statement should be read in conjunction with the enclosed Tree Protection Plan, which is based upon the above drawings.

4.0 SEQUENCE OF OPERATIONS

From commencement of the above development, the following methodology shall be implemented in the manner and sequence described:

1. Erect temporary protective fencing
2. Main construction phase
3. Installation of 'No-Dig' footpath section
4. Removal of temporary fencing
5. Landscaping within RPA's
6. Arboricultural site supervision

1. Erect Temporary Tree Protective Fencing

1. Prior to commencement of any construction, preparation, excavation or material deliveries the main contractor shall erect the temporary protective fencing as detailed in the 'Tree Protection Specification' and in the location indicated on the Tree Protection Plan.

2. Main Construction Phase

1. There shall be no storage of construction material, site parking, site accommodation or equipment in any area designated as the Root Protection Area (RPA) and Construction Exclusion Zone (CEZ) and enclosed by Temporary Protective Fencing
2. No materials that are likely to have an adverse effect on tree health such as oil, bitumen or cement will be stored or discharged within 10 metres of the trunk of a tree that is to be retained. No fires will be lit
3. The site agent shall supervise deliveries by self-loading crane, with vehicles positioned in such a manner that retained trees are not at risk of damage

Cement Mixing

- The cement mixer will be laid on top of plywood boards in a position outside the RPA of any trees. The mixer will be kept in this position throughout all development work.

Avoiding Damage to Stems and Branches

- Care shall be taken when planning site operations in proximity to trees to ensure that wide or tall loads or plant with booms, jibs and counterweights can operate without coming into contact with retained trees. Such contact can result in serious injury resulting in safe retention impossible

On Site Storage of Spoil and Building Materials

- Prior to and during all site construction works no spoil will be stored and no cement mixing will take place within the Root Protection Area of any tree on or adjacent to the site even if proposed site work is to be within the crown spread. Any encroachment within this protected area will only be with the prior agreement of the LPA Arboricultural Officer

3. Installation of No-Dig Footpath Section

- The no-dig footpath section as indicated with a blue hatch on the Tree Protection Plan shall be constructed using a three-dimensional cellular confinement system in accordance with the project engineers and manufacturers recommendations.
- Construction shall ideally be undertaken in dry weather when ground is driest and least prone to compaction
- Ground vegetation should be killed using a translocated herbicide such as glyphosate. To prevent severe oxygen depletion in the soil during the process of decomposition, all dead organic material shall be removed
- All major protrusions such as rocks and demolition material shall be removed minimizing ground disturbance. All hollows will be filled with sharp sand
- Permeable matting will then be laid, and the cellular confinement system laid on top and pegged in place.
- The cellular confinement system will then be installed in accordance with the manufacturer's guidelines using **no-fines** aggregate. Fill the cells working from the area furthest from the tree first. Further filling should be carried out using the filled Cellweb as a platform
- Edging will be constructed with tandalised boards attached to pegs driven into the ground. Pegs should be long enough to give adequate support during construction
- Install a permeable wearing course, e.g., porous tarmac or block paving or porous tarmac placed on the aggregate. Paving slabs or brick paving should be dry bedded on the sub-base and joints left unsealed.
- Under no circumstances is limestone aggregate to be used**

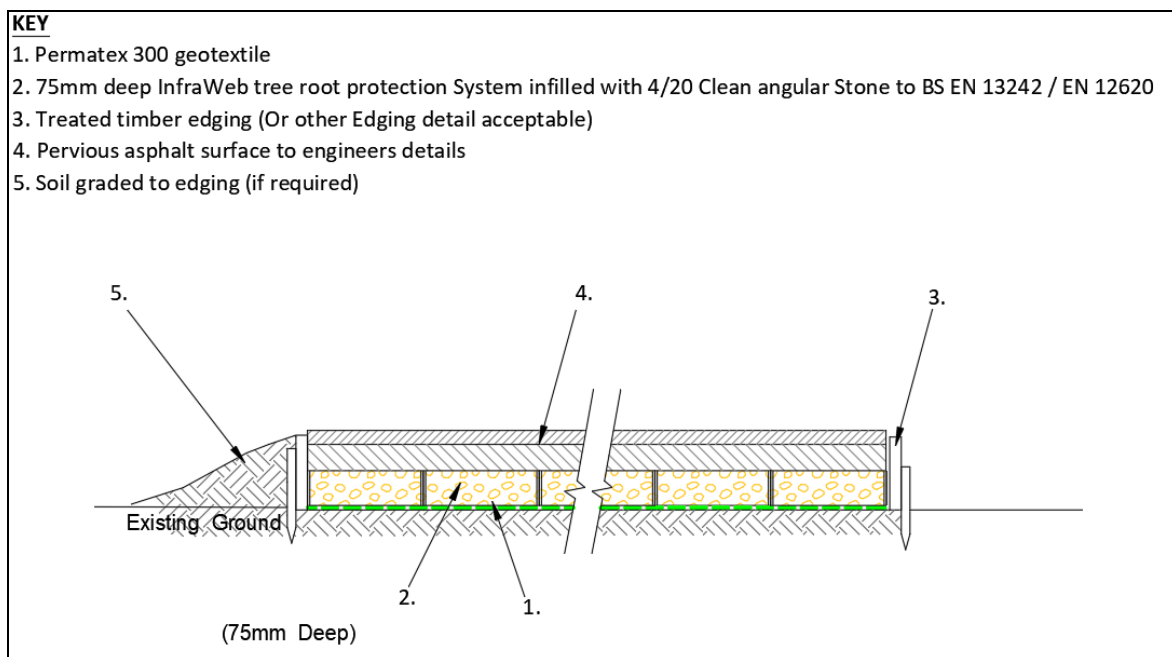


Fig 1 – Example cross-section of no dig footpath

4. Remove all Temporary Tree Protective Fencing

1. Tree Protective fencing will only be removed upon completion of all engineering/construction work within each phase and once all machinery associated with the works has left site.

5. Landscaping within RPA of Trees

1. There shall be **no rotovating** of ground within any area designated as a Root Protection Area (RPA) and Construction Exclusion Zone (CEZ) and enclosed by Temporary Protective Fencing.
2. Other than the approved works, there should be no additional hard landscaping works or excavation for cables, or any other service should be installed within the Root Protection Area (RPA) and Construction Exclusion Zone (CEZ) without the written consent of the LPA.

6. Arboricultural Site Supervision

1. Tree Solutions appointed as the contract Arboricultural Consultant shall attend a pre-contract meeting and provide a toolbox talk on tree protective measures to be implemented in accordance with the approved method statement (AMS)
2. Prior to commencement of any site engineering and subsequent construction work, Tree Solutions shall inspect the erection of all tree protection measures outlined in this AMS and as indicated on the Tree Protection Plan. Photographic evidence of the location and specification of all protective fencing will be forwarded to the Wrexham County Borough Council Tree Officer upon completion together with a signed off completion form
3. All proposed work within any designated RPA will be overseen by the Tree Solutions with photographic records taken and signed inspection report emailed direct to the LPA for approval

Useful Contacts

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TREE PROTECTIVE FENCING

- 1 Before the commencement of any demolition and subsequent construction works on site (other than those set out in the schedule of tree works contained in this document), protective fencing will be erected as detailed on the Tree Protection Plan and as specified below. The LPA Tree Officer will be given 5 days' notice upon completion of the fencing in order to inspect and approve prior to the commencement of any site works.
- 2 The fencing will consist of a scaffold framework in accordance with Figure 2 of BS 5837 – 2012 (illustration below) comprising a metal framework, both vertical and horizontal, well braced to resist impacts. Vertical tubes will be spaced at a maximum interval of 3m. Onto this, weldmesh panels shall be securely fixed with wire or scaffold clamps. Weldmesh panels on rubber or concrete feet are not considered resistant to impact and for this reason will not be used. The site manager or other suitably qualified appointed person will be responsible for inspecting the protective fencing daily; any damage to the fencing or breaches of the fenced area will be rectified immediately.
- 3 Clearly legible weatherproof signage, stating "Protected Trees – Exclusion Zone" shall be attached to the fencing 1.5m from the ground, facing out of the Tree Protection Zone located at regular intervals along the fence line
- 4 The fencing will remain in place until completion of all site works and then only removed when all site traffic is removed from site
- 5 Other than works detailed within this method statement or approved in writing by the Local Planning Authority (LPA), no works including storage or dumping of materials shall take place within the exclusion zones defined by the protective fencing.

Protective Fencing Detail

1. **Magenta**

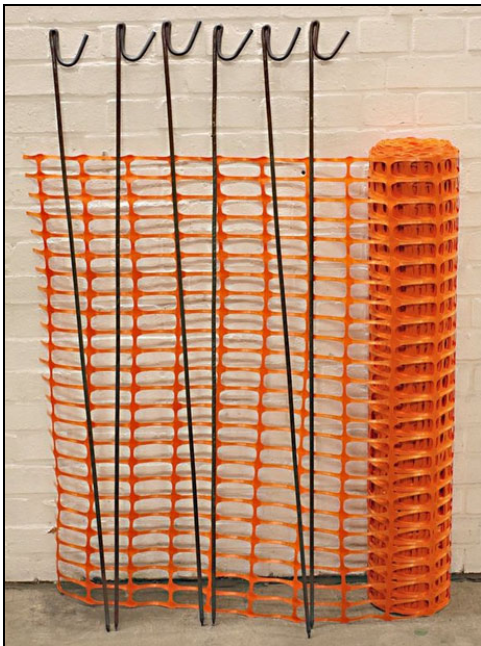
2.0M high heavy-duty Heras panels (with extra central support bar) mounted on scaffold poles (driven into the ground) and secured with anti-tamper bolts – as illustrated below.



Tree Protective Fencing Specification

2. **Orange**

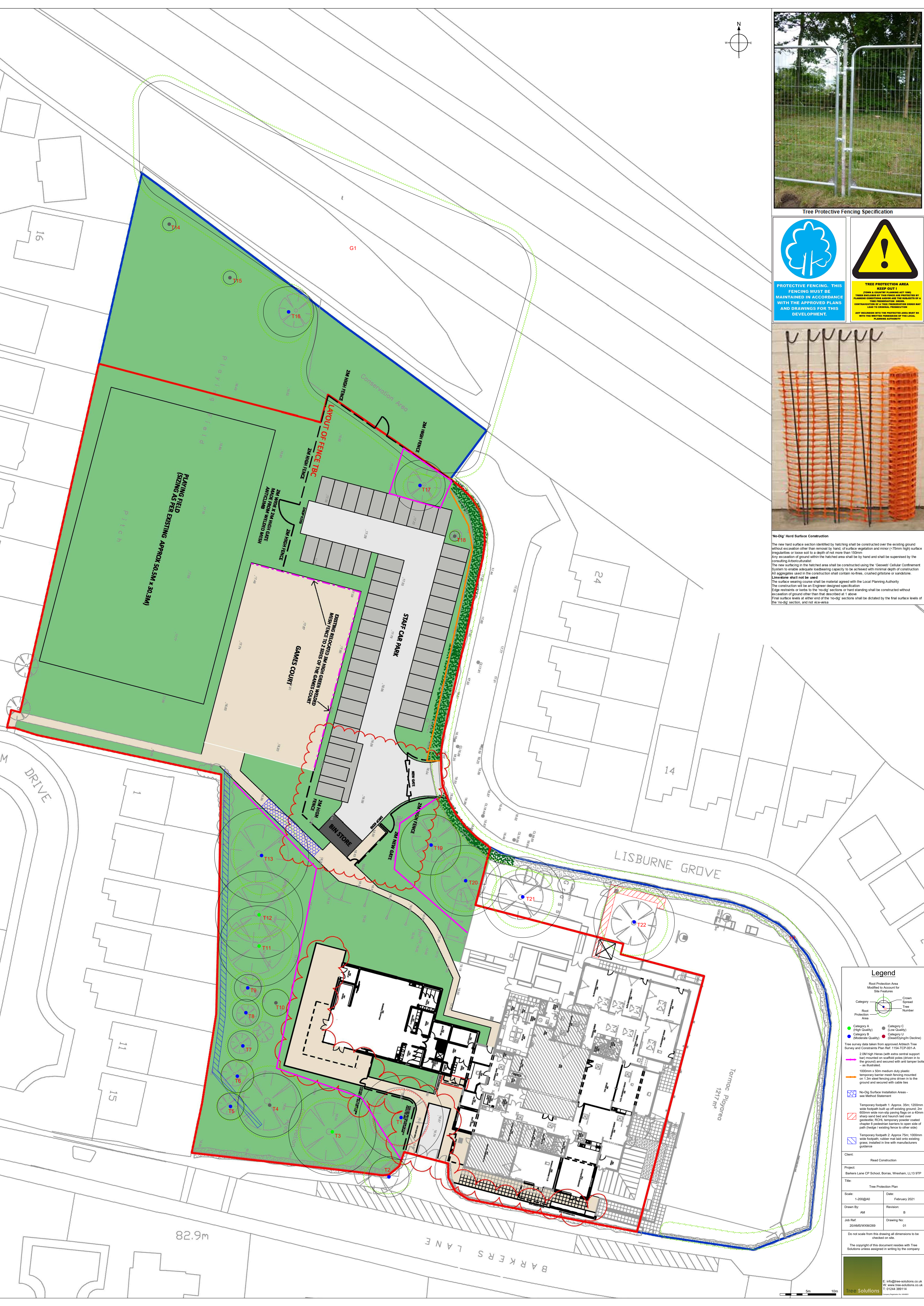
1000mm x 50m medium duty plastic temporary barrier mesh fencing mounted on 1.3m steel fencing pins driven into the ground and secured with cable ties.



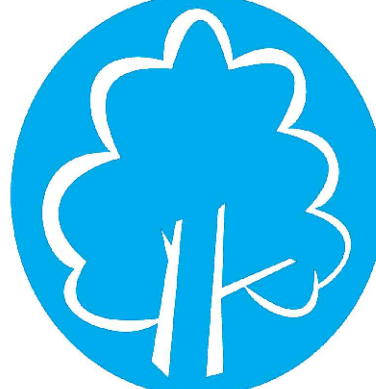
PLASNET - Plastic temporary barrier mesh fencing

Appendix One

Tree Protection Plan



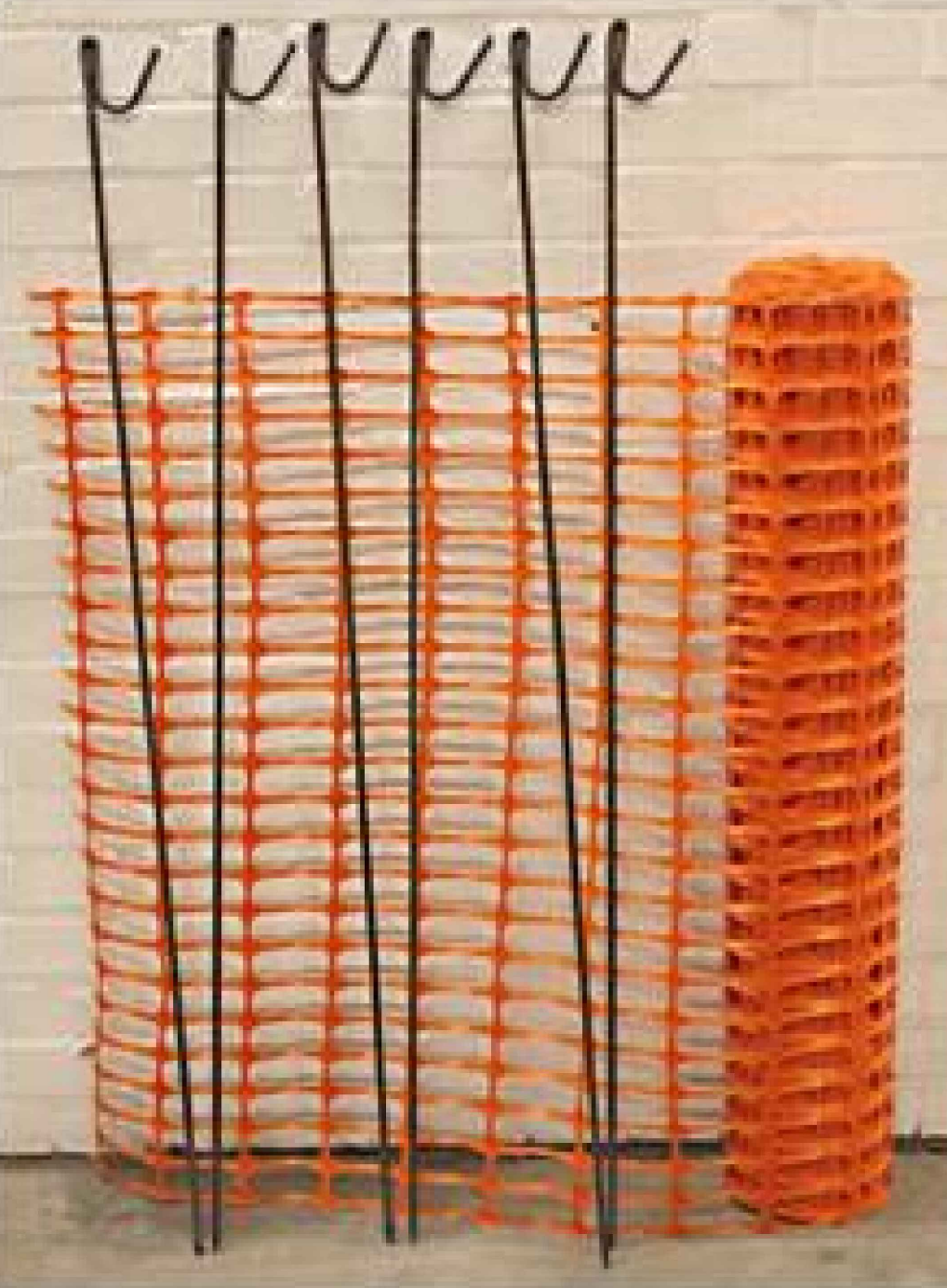
Tree Protective Fencing Specification



PROTECTIVE FENCING. THIS FENCING MUST BE MAINTAINED IN ACCORDANCE WITH THE APPROVED PLANS AND DRAWINGS FOR THIS DEVELOPMENT.



KEEP OUT! TREE PROTECTION AREA (TOWN & COUNTRY PLANNING ACT 1990) TREES IDENTIFIED BY THE TREE SURVEY AND THE PLANNING CONDITIONS AND ARE THE SUBJECTS OF A TREE PRESERVATION ORDER. CONTRAVENTION OF A TREE PRESERVATION ORDER MAY LEAD TO CRIMINAL PROSECUTION. ANY INCLUSION INTO THE PROTECTED AREA MUST BE WITH THE WRITTEN PERMISSION OF THE LOCAL PLANNING AUTHORITY.



No-Dig Hard Surface Construction

The new hard surface section identified by hatching shall be constructed over the existing ground without excavation other than removal by hand of surface vegetation and minor (<75mm high) surface irregularities or loose soil to a depth of not more than 150mm. Any excavation of ground within the hatched area shall be by hand and shall be supervised by the consulting Arboriculturist. The new surfacing in the hatched area shall be constructed using the 'Geebels' Cellular Confinement System to enable adequate loadbearing capacity to be achieved with minimal depth of construction. All aggregates used in the construction shall contain no fines, crushed gritstone or sandstone. Limestone shall not be used. The surface wearing course shall be material agreed with the Local Planning Authority. The construction will be an Engineer designed specification. Edge restraints or kerbs to the 'no-dig' sections or hard standing shall be constructed without excavation of ground other than that described at 1. above. Final surface levels at either end of the 'no-dig' sections shall be dictated by the final surface levels of the 'no-dig' section, and not elsewhere.

Legend

- Root Protection Area Modified to Account for Site Features
- Category A (High Quality)
- Category B (Moderate Quality)
- Category C (Low Quality)
- Category U (Dead/Dying/In Decline)
- Tree survey data taken from approved Arbreach Tree Survey and Constraints Plan Ref: 1154-TCP-001-A
- 2.0m high fence with extra central support bar (mounted on scaffold poles driven in to the ground) and secured with wire tamper bolts - as illustrated.
- 1000mm x 60mm medium duty plastic temporary barrier mesh fencing mounted on 1.3m steel fencing pins driven in to the ground and secured with cable ties
- No-Dig Surface Installation Areas - see Method Statement
- Temporary footpath 1: Approx. 30m x 1200mm wide footpath built up off existing ground; 200mm wide non-slip paving flags on a 40mm sharp sand bed and bounded laid over geotextile; RCH, temporary powder coated chapter 8 pedestrian barriers to open side of path (hedge / existing fence to other side)
- Temporary footpath 2: Approx 75m x 1000mm wide footpath; rubber mat laid onto existing grass; installed in line with manufacturers guidance

Client: Read Construction
Project: Barkers Lane CP School, Borsae, Wrexham, LL13 9TP
Title: Tree Protection Plan
Scale: 1:200(A0)
Date: February 2021
Drawn By: AM
Revision: B
Job Ref: 2018/WSM229
Drawing No: 01
Do not scale from this drawing all dimensions to be checked on site.
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