

ADDENDUM TO ARBORICULTURAL REPORT

Land south of Sundown,
Littleheath Road, Fontwell,
Arundel BN18 0SR

Prepared by

Jonathan Podwell Cert Arb L4(ABC): TechArborA

May 2021



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ARBORICULTURAL METHOD STATEMENT

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Appendices:

1- Drainage in relation to RPA plan. 2- Tree protection plan. 3 – Protective barriers.

1.0 INTRODUCTION

1.1 I have received instruction from Mr Richard Brooks to provide additional arboricultural consultancy services with regard to conditionally permitted planning consent for land to the south of Sundown, Littleheath Road, Fontwell, Arundel BN18 0SR.

1.2 The purpose of the instruction was to:

- **Prepare an addendum to the existing arboricultural method statement (Beechdown ref: B/0301/21) with regard to soakaways, field drain and drainage runs extending beyond the protective barriers and into the construction exclusion zone identified in our report of January 2021.**

2.0 DOCUMENTS PROVIDED

2.1 Plans prepared by H J Concepts Ltd:

-	Drainage plan	1:100
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3.0 REPORT FORMAT

3.1 This arboricultural method statement informs on tree protection measures at the site and was prepared with reference to:

- the documents and plans provided;
- the guidelines detailed in BS 5837:2012 "Trees in relation to design, demolition and construction – Recommendations";
- details collated and recorded at my site visit and according to good arboricultural practice.

4.0 COMMENT

4.1 The 1:200@A3 drainage plan in relation to root protection areas (RPAs) Appendix 1 shows that the storm water soakaway is located beyond the nominal RPA of any trees while the foul drainage is shown to impact marginally on the RPAs of **T8** and **T9**. Drainage runs to both extend partially through the nominal RPA of the mature oak

(T1) and the drainage run for the foul system also extends partially through the combined RPAs of trees T6-T14).

- 4.2 Further investigation to establish soil type and rooting patterns identified a shallow, organic matter-rich topsoil, around 100mm deep, over a heavy subsoil of clay, flint and gravel. Excavation at various locations, within the areas identified for drainage runs, found that root development was restricted to the thin layer of topsoil, was not extensive and in no cases were large diameter roots or dense masses of fibrous roots encountered.
- 4.3 Excavation within the heavily compacted access track running through the nominal RPA of the oak (T1) did not encounter any significant roots and I consider that root development of this tree must be more extensive in the higher ground to the south.
- 4.4 With suitable precautionary measures, tree protection and arboricultural supervision I consider that installation of the soakaways, field drains and drainage runs can proceed without ill effects on the long-term health of the retained trees.

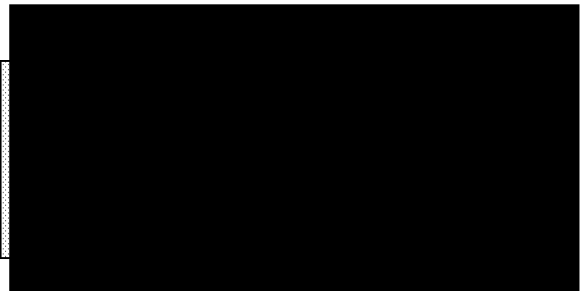
5.0 DETAILS

- 5.1 Date of site visit - 27th April 2021
- 5.2 Present at site visit - Jonathan Rodwell Cert Arb L4(ABC); TechArborA
- 5.3 Date of report - 28th May 2021

5.4 Contact details:

CONTACT	NAME	DETAILS
Local Planning Authority	Arun District Council	Tel - 01903 737756 Email – Planning@arun.gov.uk
Architects	H J Concepts Ltd	Tel - 01329 288684 Email - office@hjconcepts.co.uk

Arboricultural Consultants	Beechdown Arboriculture Ltd
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References

Roberts, J. Jackson, N. Smith, M. (2006). *Tree Roots in the Built Environment*. The Stationery Office
BSI British Standards (2012) *BS 5837:2012 Trees in relation to demolition and construction – Recommendations, Fourth (Present) Edition*. BSI

Jonathan Rodwell Cert Arb L4(ABC); TechArborA
 Beechdown Arboriculture Ltd

28th May 2021

ARBORICULTURAL METHOD STATEMENT

This addendum, to be read in conjunction with the arboricultural method statement (**B/0301/21**), refers to the additional infrastructure requirements and includes the following plans:

Appendix 2	1:200@A3	Tree protection plan (amended)
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6.0 PROTECTIVE BARRIERS AND CONSTRUCTION EXCLUSION ZONE.

- 6.1 Prior to the commencement of construction work and before any machinery or materials are brought onto the site, protective barriers, marked as a light purple broken line on the tree protection plan (**Appendix 2**), must be erected, around the vulnerable Root Protection Area (RPA) to create a construction exclusion zone beyond the working area.
- 6.2 The construction exclusion zone, shown as light green horizontal hatching on the tree protection plan, will be afforded protection at all times during the development process; strictly no access, construction activities, mixing materials or storage will be allowed.
- 6.3 The barriers will have weather proof signs attached stating that it is protecting a **construction exclusion zone** and that **no works are permitted** beyond the barrier; the protective barrier should remain in place for the duration of the development process.
- 6.4 The protective barriers should be positioned in accordance with the tree protection plans and would typically be constructed as per figure 2 of BS 5837:2012 (shown at **Appendix 3**) and consist of a vertical and horizontal scaffold framework, well braced to resist impacts with vertical tubes spaced at a maximum interval of 3m and driven securely into the ground and onto which weld mesh panels would be fixed with wire or scaffold clamps. In this case, with limited space and uneven ground, Heras type fence panels mounted on a block tray, constructed similarly to figure 3 b) of BS 5837:2012 will provide an appropriate barrier.

7.0 EXCAVATION FOR SOAKAWAYS, FIELD DRAINS AND DRAINAGE RUNS

7.1 Excavation for soakaways and drainage runs within the RPA of retained trees should be undertaken under arboricultural supervision.

- ✦ Hand excavation of the 100mm topsoil will establish the presence of roots;
- ✦ exposed roots or fibrous root masses that are to be retained should be immediately covered – with hessian or similar - to prevent drying;
- ✦ individual roots less than 25mm diameter that need to be removed should be cleanly severed, with secateurs or a pruning saw;
- ✦ if larger roots are encountered the project arboriculturalist will determine whether it is possible to sever roots greater than 25mm diameter or whether they should be retained and allowed to bridge the trenches;
- ✦ excavation of the heavy clay, flint and gravel subsoil should use the smallest machine possible and work back from the foul soakaway, working from proprietary ground protection sheets or heavy-duty access mats, i.e. Euro Trak, via the drainage runs to the area beyond the RPAs.

Beechdown Arboriculture Ltd

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Sundown

Appendix 1- drainage in relation to RPAs

SCALE :
1 : 200 @ A3

DATE :
28/05/2021

N

Beechdown ref: B/0301/21 (addendum)
Sundown - arboricultural method statement - May 2021

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Littleheath Road

Key:

- Combined RPA
- Foul Drainage
- SWS
- Tanks

Tanks and Drainage Labels:

- T1 B
- T2 B
- T3 B
- T4 B
- T5 B
- T6 B
- T7 B
- T8 B
- T9
- T10
- T11
- T12
- T13
- T14 B
- T15 B
- T16 B
- T17
- T18
- T19
- T20
- T21

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Appendix 2- tree protection plan

SCALE :
1 : 200 @ A3

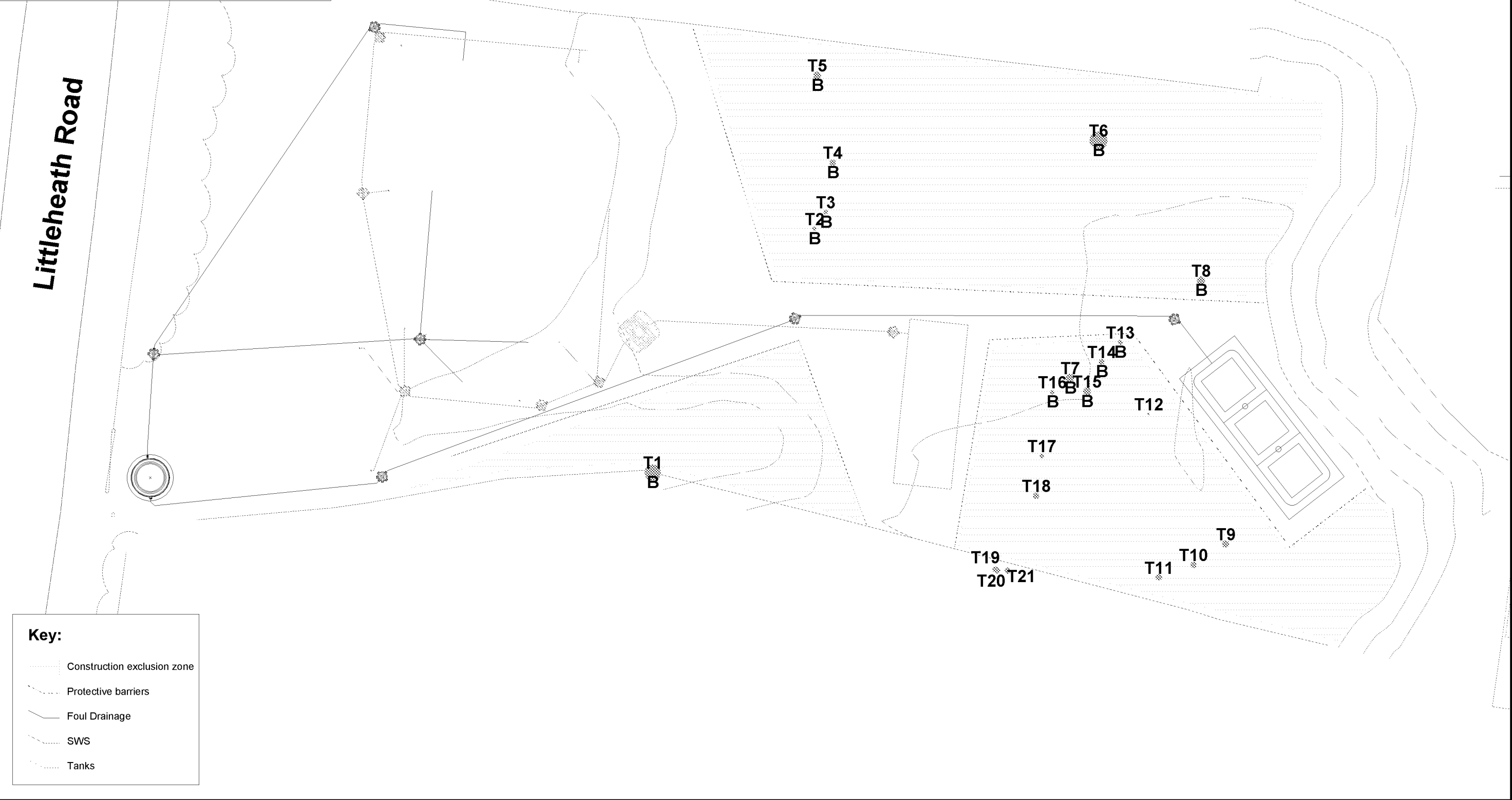
DATE :
28/05/2021

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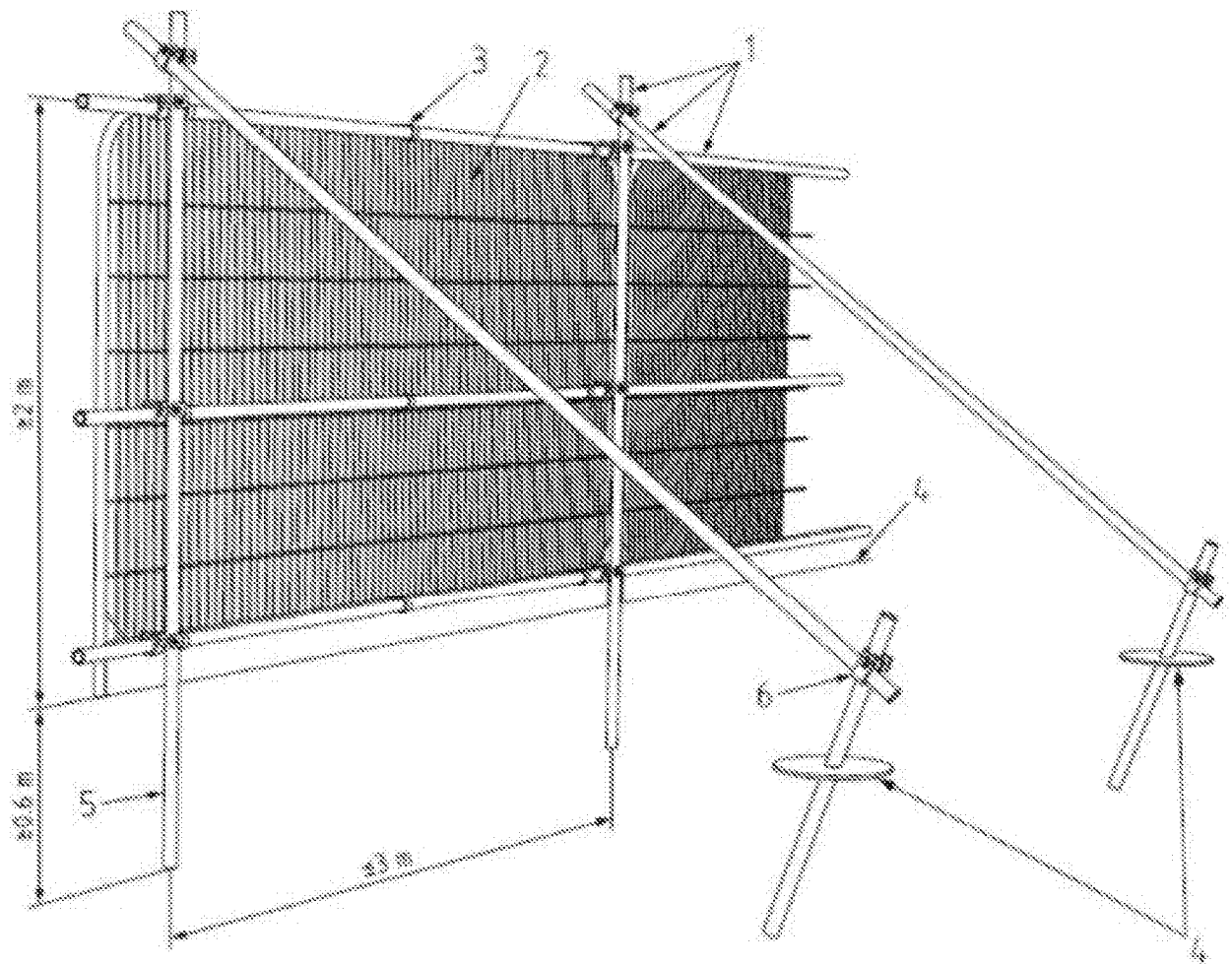

Beechdown ref: B/0301/21 (addendum)

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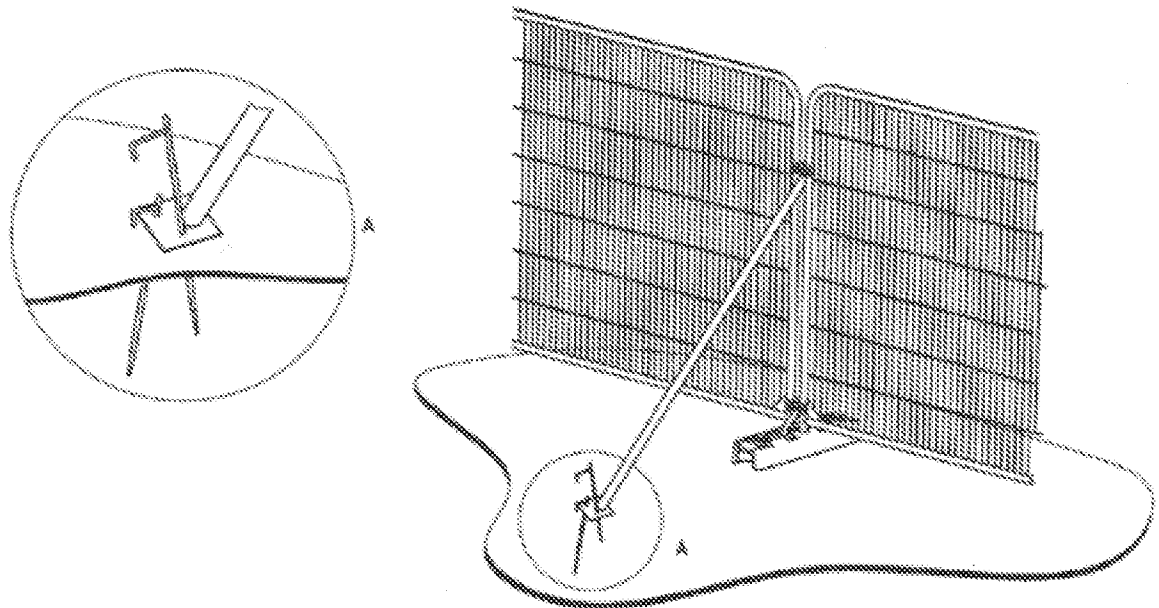
Appendix 3 – Protective Barrier



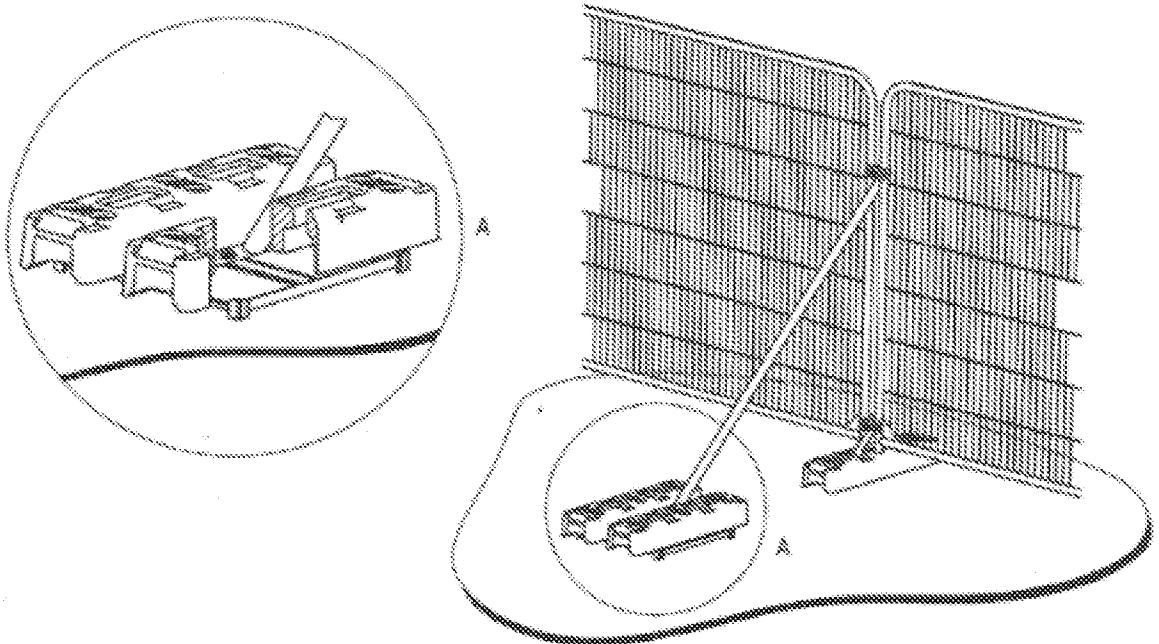
Key

- 1 Standard scaffold poles
- 2 Heavy gauge 2 m 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 0.6 m)
- 6 Standard scaffold clamps

Default specification for protective barrier as per Figure 2 of BS 5837:2012 *Trees in relation to demolition and construction – Recommendations, Fourth (Present) Edition*. BSI



a) Stabilizer strut with base plate secured with ground pins



b) Stabilizer strut mounted on block tray

Examples of above-ground stabilising systems as per Figure 3 of BS 5837:2012 *Trees in relation to demolition and construction – Recommendations, Fourth (Present) Edition*. BSI