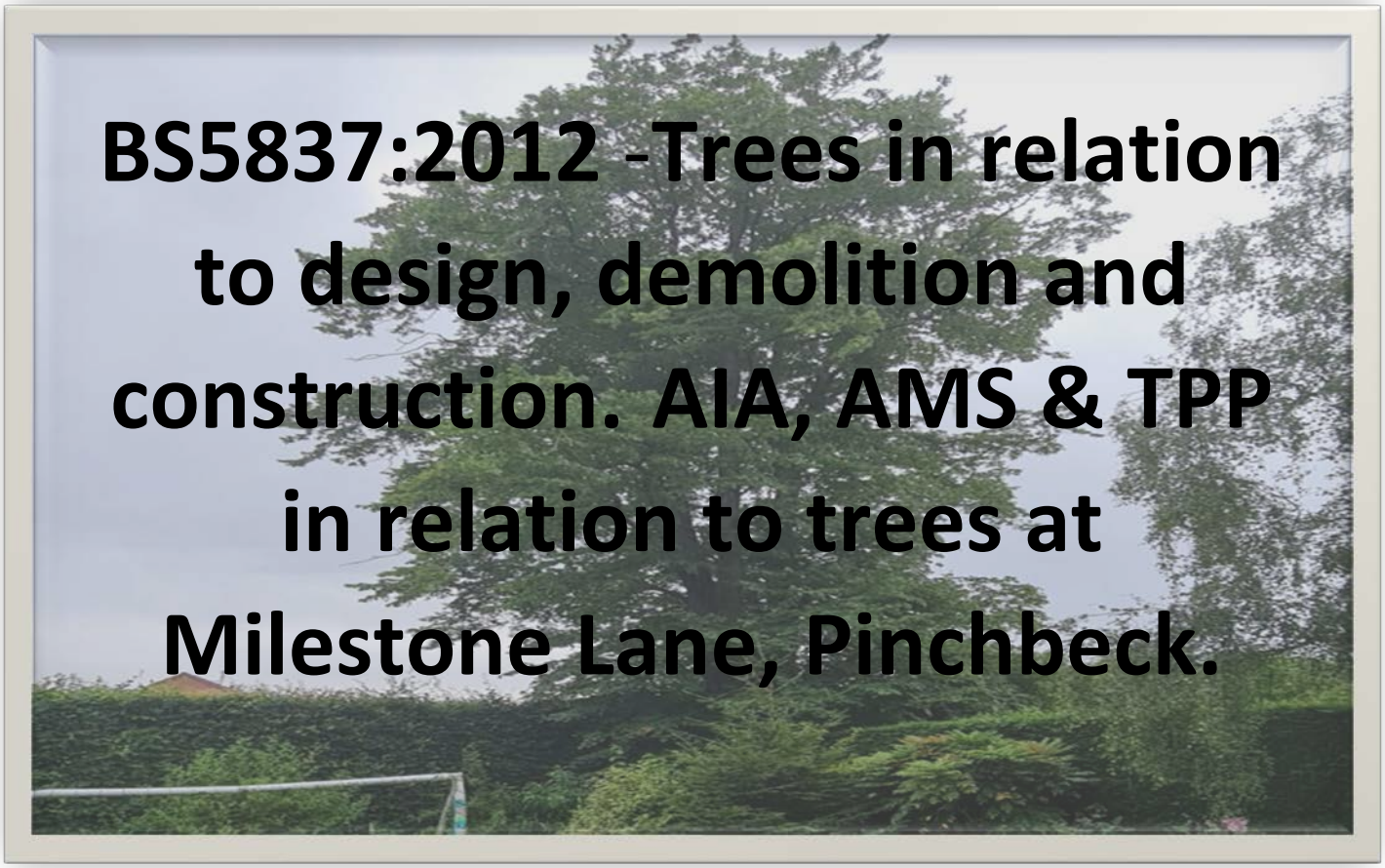


BS5837:2012 -Trees in relation to design, demolition and construction. AIA, AMS & TPP in relation to trees at Milestone Lane, Pinchbeck.

Prepared by: East Midlands Tree Surveys Ltd.

Date: 26/08/2022

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1. Instructions

This report was commissioned by Matrix Planning with instruction to provide the following in line with *BS5837:2012 Trees in relation to design, demolition and construction - Recommendations.*

- An Arb Impact Assessment along with an Arb Method Statement and Tree Protection details.
- This document should be read in conjunction with the Tree Constraints report dated 19/07/21

Whilst the plans (provided by the Architect) cannot be scaled against, they are to scale within the context of the plans within this report.

2. Arboricultural Impact Assessment.

See Appendix 1 for the Impact Assessment plans, Root Protection Areas in grey, crown spread in green along with shade pattern.

The proposed layout shows that the buildings are all located outside the RPAs of the off-site trees.

Although the shade pattern has not been shown, it will be to the north, so no direct shading on any of the proposed houses or garden amenity space.

Proposed drainage channels have not been shown, if any are within RPAs, these will be hand dug.

There is sufficient space on site for the storage of materials.

3 Arboricultural Method Statement & Tree Protection detail.

3.1 Sequenced Methods of Demolition, Construction and Tree Protection

With reference to relevant published guidance, the methodology of this statement follows a logical sequence essential to the efficacy of the protection measures. Reference may include: British Standard BS 5837:2012 Trees in relation to design, demolition and construction – Recommendations; British Standard BS3998:2010 Tree Work. It is essential to the successful implementation of the principles set out in this document that effective supervision and enforcement are put in place from the outset.

3.2 Phase 1 - Undertake Arboricultural Works

Crown raise and laterally prune all trees to 3m.

The Site Construction Manager is to assess clearances in terms of trees with regards to plant machinery and materials.

If any further works are required, these will be agreed with the Project Arboriculturalist.

Tree work requires skilled operators to perform pruning tasks in order to maintain the health and safe useful life expectancy of the trees, it is strongly recommended that construction staff DO NOT carry out any tree works.

Additional to this, a legal Duty of Care requires that all works specified should be carried out by qualified arboricultural contractors who have been competency tested to determine their suitability for such works in line with Health and Safety Executive guidelines. All works should be carried out in accordance with British Standard BS3998:2010 Recommendations for Tree Work.

Particular care needs to be addressed in dealing with legally protected species such as nesting birds and roosting bats which are protected under the Wildlife and Countryside Act 1981 (as amended) from intentional harm and killing and applies to roosting and hibernating bats and active bird nests. The protection of bird nests applies between mid-February to August inclusive.

3.3 Phase 2 - Tree Protection Fencing

The Tree Protection Plan can be found at Appendix 2.

The RPAs will be marked out on the ground as per the radius measurements in the Tree Constraints Report.

Thereafter, the fencing will be set back 2m from the proposed build lines and or the extent of the RPAs as per the TPP at Appendix 2 and shall remain in place throughout construction and be removed only after completion.

The default specification as per figure 2 of BS 5837:2012 will be used (see Appendix 3) in order to minimise the risk of damage to roots.

Within the fenced zone, no materials or chemicals should be stored at any time, no fires should be lit, no pedestrian or vehicle traffic, and level changes within these areas should be kept to an absolute minimum. Every effort should be taken to protect a maximum possible area of the root system.

It is not envisaged that the storage of materials during the construction Phase will be an issue due to the size of the site.

Clear notices are to be fixed to the outside of the fencing with words such as

‘TREE PROTECTION AREA – NO ACCESS OR WORKING WITHIN THIS AREA’.

(See Appendix 4). These notices shall be A3 in size, laminated and fixed to the fencing using suitable aids such as tie wires.

RPA areas outside the fence (identified in red on the plans) will be protected by a mix of Ground Guards (see Appendix 5) and scaffold board infill set on 4 inches of compressible material such as wood chip – sensibly, the material from the pruning works could be used.

The site agent, all contractors and other relevant personnel are to be informed of the role of the Tree Protection Fencing and their importance. A copy of the Tree Protection Plan will be displayed on site at all times during construction.

A copy of the Tree protection Plan & Method Statement to be kept on site at all times.

An arboriculturist should be consulted where required during the construction process to address any issues that might arise regarding tree retention, protection, and management. It is the responsibility of the site owner, manager, and main contractor to ensure that any tree protection or other relevant planning conditions, or TPO's are adhered to.

A breach of a planning condition or TPO may result in enforcement action by the LA.

It will be necessary to supervise the operation of tall or wide machinery such as booms or jibs during the installation work in proximity to the canopies of retained trees.

It is recommended that a pre-commencement meeting be arranged with the contractors who may be operating the machinery to address/overcome any concerns about close by branches and to organize further mitigating pruning, this to be agreed with the Project Arboriculturalist.

John Wilcockson – Director, East Midlands Tree Surveys LTD.

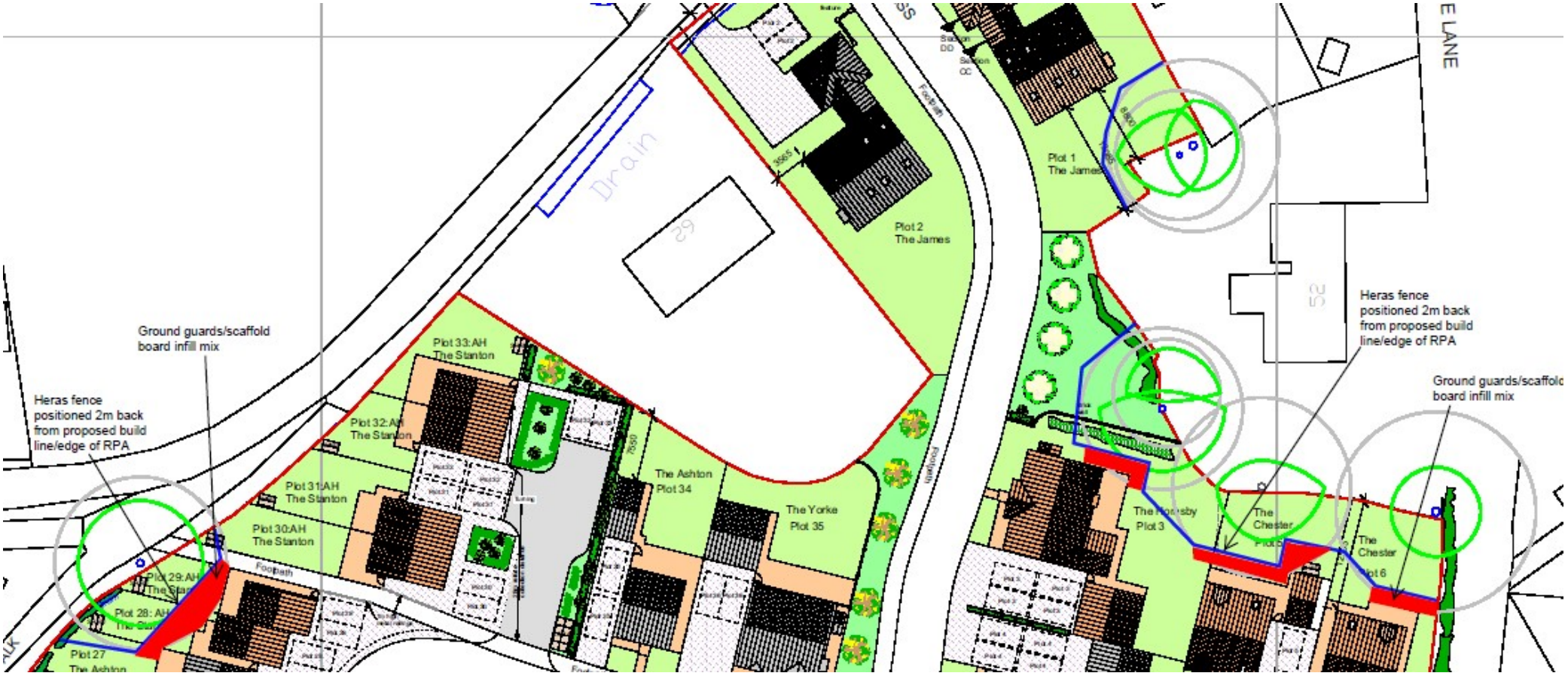
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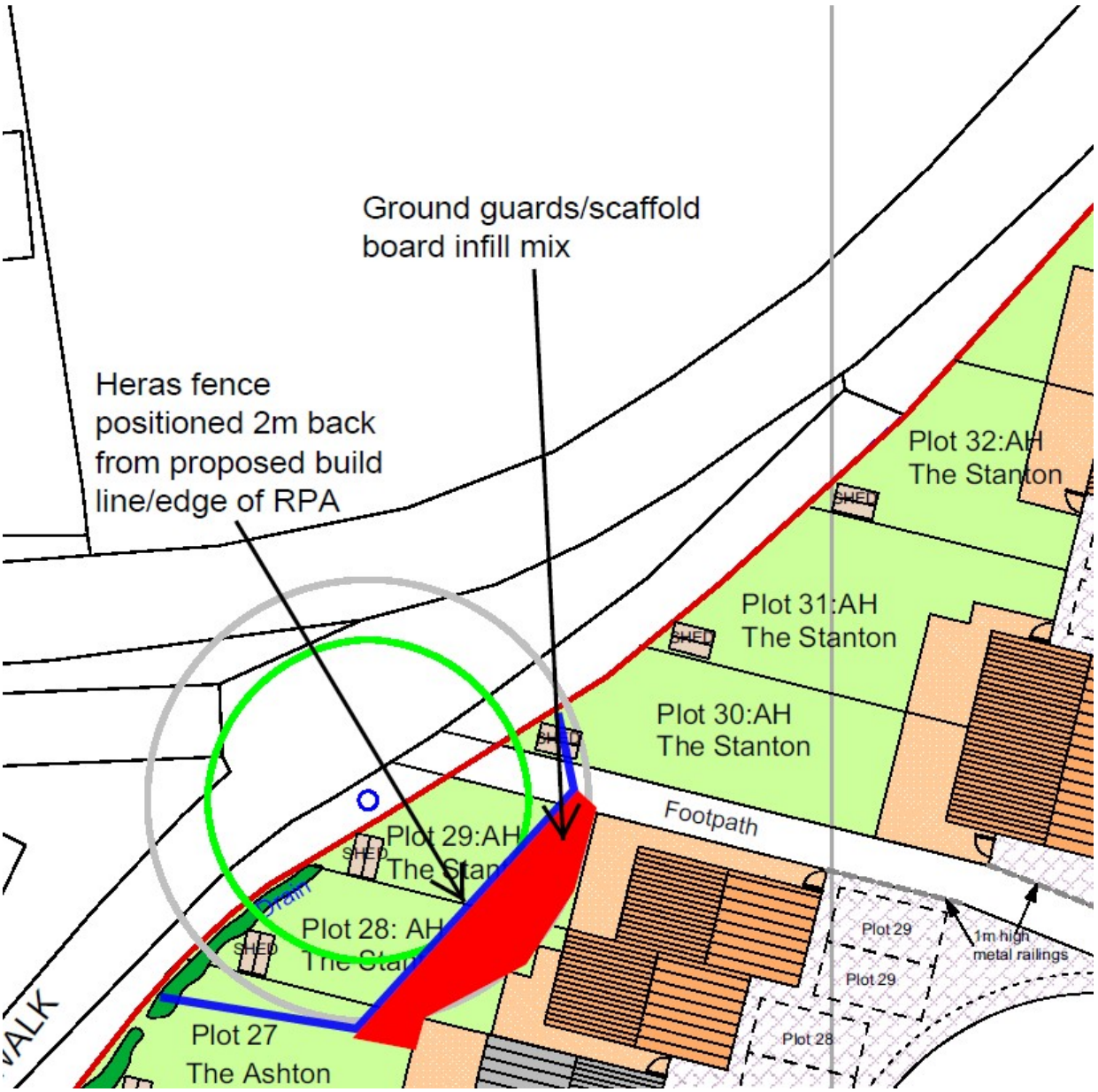
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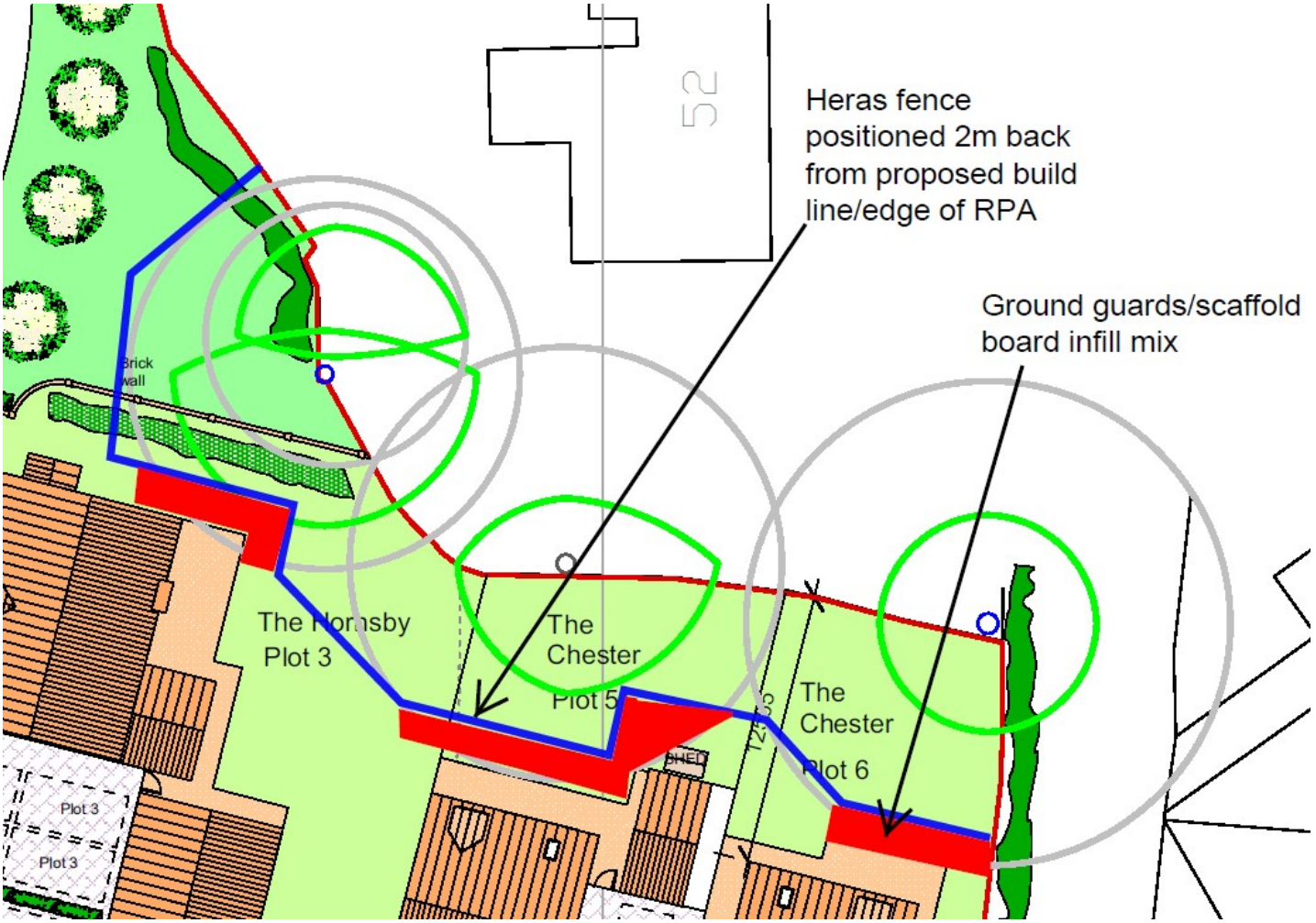
Appendix 1: Impact Assessment



Appendix 2: Tree protection measures - overview

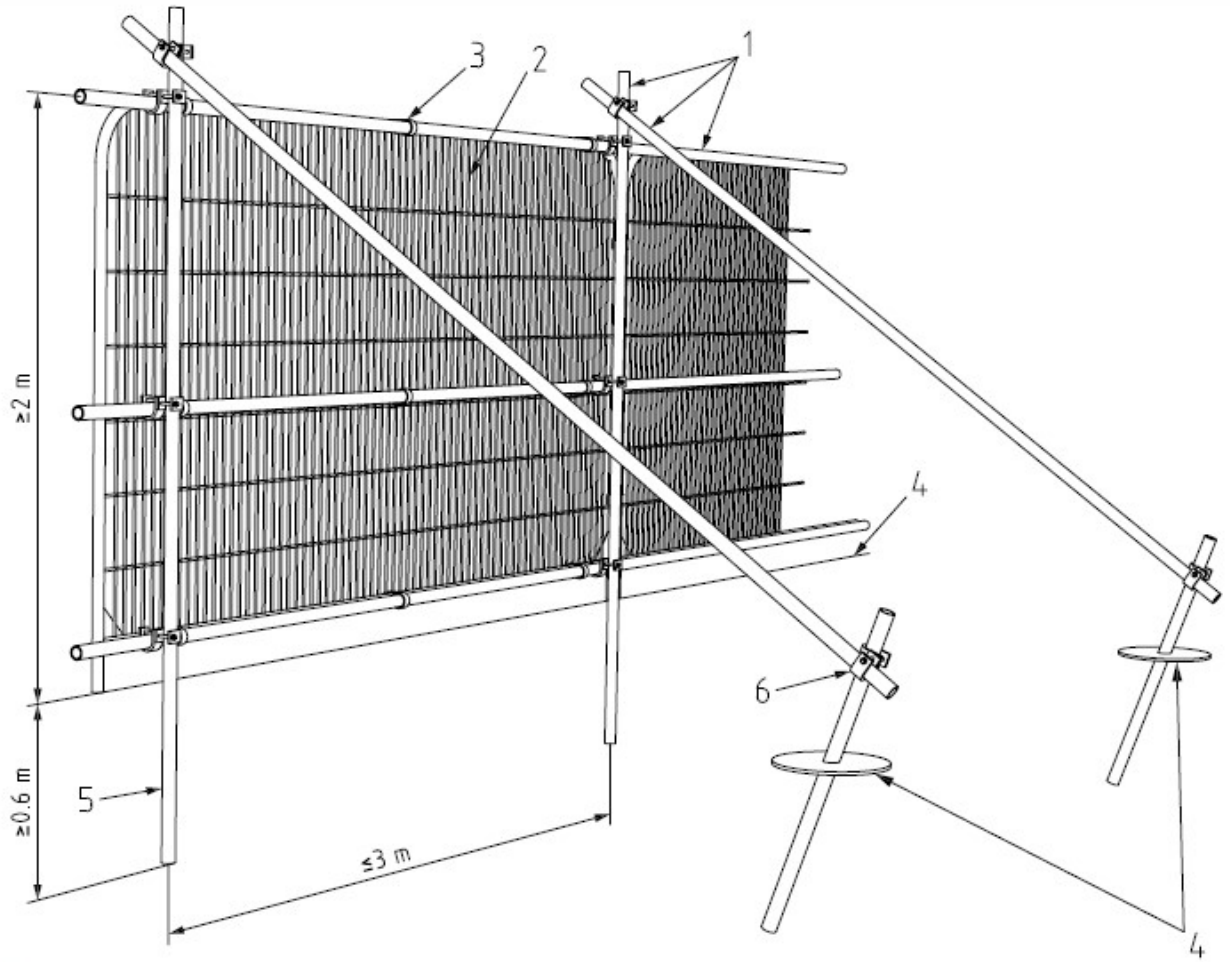



Ground guards/scaffold board infill mix
Heras fence positioned 2m back from proposed build line/edge of RPA
Plot 32:AH The Stanton
Plot 31:AH The Stanton
Plot 30:AH The Stanton
Footpath
Plot 29:AH
Plot 28: AH
Plot 27 The Ashton
Plot 29
Plot 29
Plot 28
1m high metal railings
SHED


52
Heras fence positioned 2m back from proposed build line/edge of RPA
Ground guards/scaffold board infill mix
Brick wall
The Hornsby Plot 3
The Chester Plot 5
The Chester Plot 6
Plot 3
Plot 3
SHED

Appendix 3. Fence specification.

Figure 2 Default specification for 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

Appendix 4. Signs.



Appendix 5. Ground Guards

Ground-Guards™



RoadTrack

Planning the use of the Ground-Guards RoadTrack access system into your job before you start can save you from damaged ground, and stuck vehicles. And the extra safety that this provides could also save someone from having a serious accident.

These lightweight plastic panels have now become recognised as standard equipment for use on many sites. They enable quick, safe, easy access and are virtually indestructible. They are guaranteed unbreakable by vehicles of up to 60 tonnes which makes them ideal for manoeuvring heavy equipment around on site with minimal disturbance to the ground.

RoadTrack panels are made from environmental friendly 100% recycled plastic, and they range in sizes from 2.4 x 1.2m (8' x 4') down to 1.8 x 0.6m (6' x 2') and are available with different tread patterns to suit a whole range of uses.

They can be either quickly loose-laid for short term ground protection, or clipped together for longer term jobs such as making semi-permanent site access roads. This saves the huge hassle and cost of stripping out and stoning up a temporary roadway, then removing the stone and reinstating the ground afterwards.

Ground-Guards are guaranteed unbreakable by vehicles up to 60 tonnes (for GG48 4' x 8' Ground-Guards, less for smaller versions). Note, it is the customer's responsibility to assess the load bearing capacity of the ground and determine what weight of vehicle it is capable of safely supporting. Ground-Guards are not suitable for bridging purposes.

