

BS5837:2012 - Trees in relation to design, demolition and construction. Arboricultural Impact Assessment in relation to trees at Spalding Football Club.

Prepared by: East Midlands Tree Surveys Ltd.

Date: 29/09/2026

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1. Instructions

This report was commissioned by Field and Fox Architects in relation to trees at the above address 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 15/09/26.

2. General information

2.1 Proposed development

The installation of new spectator stands, new toilet block south of the main changing rooms and creating additional concrete area to the south.

2.2 Use of this document

This document has been produced to assist key design and construction personnel in ensuring the satisfactory protection of all important trees present within the development site.

3. Arboricultural Impact Assessment.

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

Physical Build Footprint

All development and construction works have been designed to remain outside the Root Protection Areas (RPAs) of the retained trees.

No tree removals are required to facilitate the proposed development and based on the current layout; no pruning is anticipated.

The overhead canopy clearances in relation to NT5, NT6 and G2 shall be assessed by the appointed Construction Site Manager prior to and during the use of plant and machinery, to ensure that adequate clearance is maintained and that no conflict with the retained tree canopies occurs.

Where practicable, any potentially conflicting limbs will be tied back.

Should pruning subsequently be considered necessary, no tree works shall be undertaken without prior agreement in writing from the Local Planning Authority, where required.

4. Arboricultural Method Statement & Tree Protection detail.

4.1 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.

4.2 Tree Protection Fencing – Specification, Installation and Protection Measures

Tree protection fencing shall be installed **prior to the commencement of any construction, demolition, groundworks, site clearance or other works on site** and shall remain in place, secure and fully effective for the duration of the construction period. The fencing shall only be removed following completion of all works that could potentially affect the retained trees and with the agreement of the Project Arboricultural Consultant.

The appointed Main Contractor shall communicate to all appointed contractors and any subsequent subcontractors the location and projected extents of the Root Protection Areas (RPAs) of all retained trees. Particular regard shall be given to retained trees where anticipated landscaping or other works may incur within their projected RPAs and/or where specific protection measures are required.

The approved **Tree Protection Plan (TPP)** is provided at **Appendix 2** and identifies the location and extent of the required tree protection measures.

Setting Out of RPAs and Fencing

The principal fence run shall follow the **edge of the existing tarmac/grass interface at NT5, NT6**, as indicated on the TPP. Adjacent to **G2**, the protective fencing shall extend for a minimum distance of **10 m**, as shown on the TPP.

Where site constraints or the standard **3.0 m fence panel lengths** result in minor discrepancies between the fence panel lengths and the precise alignment shown on the TPP, the fencing shall be positioned **further away from the RPA rather than encroaching within it**. Such adjustments shall not result in an unnecessary reduction of the protected area.

Where practical, the fence panels shall be installed to form a **continuous and unbroken barrier**. Any gaps required for legitimate site access shall be appropriately controlled and shall not compromise the protection afforded to the retained trees.

No adjustment to the approved fence alignment shall be made without prior consultation with the Project Arboricultural Consultant.

Fencing Specification

The tree protection fencing shall be installed in accordance with the principles illustrated in **Figure 3 of BS 5837:2012**, as provided at **Appendix 3**, unless an alternative site-specific protection measure is agreed with the Project Arboricultural Consultant and, where necessary, the Local Planning Authority.

The barriers shall be fit for purpose and capable of effectively excluding construction activity from the protected areas.



For this site, the fencing shall comprise **2.0 m high Heras-type welded mesh panels**, securely supported on suitable **concrete feet/anti-lift blocks** to provide a continuous, stable and robust barrier.

The fence panels shall be joined using a minimum of **two anti-tamper couplers at each joint**, positioned so that the panels cannot readily be removed from outside the protected area. The couplers shall be positioned at least **1 m apart** and shall be installed consistently throughout the protective barrier.

The fencing shall be **free-standing and supported solely by the concrete feet/anti-lift blocks**, with no ground pins, driven stakes, excavation or other penetration of the ground required for installation.

The concrete feet shall be of sufficient size and weight to maintain the stability of the fencing under normal site conditions and shall be positioned securely on the existing ground surface. The feet shall not be positioned in a manner that requires excavation, grading or disturbance of the soil within the RPA.

The fence panels shall be installed with the supporting feet positioned to the **construction side of the barrier**, where practicable, so that the protected side remains unobstructed and the maximum practicable area of the RPA is maintained.

The completed fence shall provide a **continuous physical barrier** preventing access by construction personnel, vehicles, plant, machinery and materials into the protected area.

The fencing shall be checked following installation to ensure that all panels are securely connected, the supporting feet are stable and the barrier is continuous and effective.

Any section of fencing that becomes displaced, damaged or unstable during the construction period shall be **immediately reinstated or replaced** before works continue in the affected area.

Construction Exclusion Zone

Once erected, the area enclosed by the protective fencing shall be regarded as a **Construction Exclusion Zone**.

The fencing shall prevent construction personnel, vehicles, plant, machinery, materials and storage from entering the protected areas.

Within the fenced area, the following shall be prohibited:

- vehicle or plant access;
- pedestrian access, other than access specifically authorised for arboricultural purposes;
- storage or stockpiling of materials, spoil or waste;
- storage of fuel, chemicals or other potentially harmful substances;
- mixing or washing out of concrete, mortar or other cementitious materials;
- fires or burning of materials;
- excavation, trenching or other ground disturbance;



- changes in existing ground levels;
- compaction or disturbance of the existing ground surface;
- installation of temporary or permanent services unless specifically agreed in writing with the Project Arboricultural Consultant and the Local Planning Authority where required; and
- attachment of materials, signage, cables or other items to retained trees.
- No cement, concrete washings, contaminated water or other deleterious substances shall be discharged within the protected areas.

Every practicable effort shall be made to protect the **maximum possible area of the root system and associated soil volume** of the retained trees.

Tree Protection Notices

Clear warning notices shall be securely attached to the **outer face of the protective fencing** at appropriate intervals and locations.

The notices shall state:

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

An example notice is provided at **Appendix 4**.

The notices shall be **A3 in size, laminated or otherwise weatherproofed**, and securely fixed to the fencing using suitable fixings such as tie wires or proprietary attachments. Notices shall remain clearly visible and legible throughout the construction period.

If any section of fencing is damaged, displaced or removed, **construction activities within the affected area shall cease** until the protection measures have been reinstated to the satisfaction of the Project Arboricultural Consultant.

The protective fencing shall not be moved, breached, removed or otherwise altered without prior agreement from the Project Arboricultural Consultant.

Contractor Responsibilities

The Construction Site Manager shall be responsible for ensuring that all contractors and subcontractors are made aware of:

- the location and extent of the RPAs;
- the location of the tree protection fencing;
- the requirements of the TPP and this specification;
- the restrictions applying within the Construction Exclusion Zones; and
- the requirement to maintain the protective fencing throughout the construction period.

These requirements shall be incorporated into the site induction and communicated to all relevant site personnel before they commence work.

The Construction Site Manager shall ensure that the exclusion zones remain effective throughout the construction period and shall immediately report any damage, displacement or breach of the protective fencing to the Project Arboricultural Consultant.



The protective fencing shall remain in place until all works that could potentially affect the retained trees have been completed. Removal of the fencing shall only take place following completion of the relevant works and with the agreement of the Project Arboricultural Consultant.

4.3 Mixing of concrete around trees. (cementitious, mortar, cement, slurry)

Washout wastewater is caustic and considered corrosive, with a pH over 12. Wet concrete is toxic to trees and for this reason the incorporation of protection (sheathing with impermeable membrane e.g. heavy grade polythene sheeting) is extremely important to prevent contact with exposed roots and limiting potential for harm.

It is important NOT to mix concrete within the vicinity of trees where there is the risk of contamination of the soil.

Should any new below ground infrastructure e.g., kerbs, fence post-holes, or footings be required within the projected RPAs of the retained trees, then due to the highly alkaline leachate produced during the curing of wet concrete, they should not be poured within the RPAs of any of the retained trees, unless an impermeable liner has first been installed.

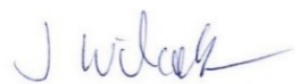
A copy of the Tree protection Plan & Method Statement to be kept on site at all times.

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 if required.

NHBC guidelines on foundation depth in proximity to trees should be followed. This will be determined by a structural engineer and appropriate sampling to determine soil profiles at the site.



John Wilcockson – Director, East Midlands Tree Surveys LTD.

Tech Cert (Arbor A), NDF For

29/09/26



4.4 References

British Standards Institute. (2010). Recommendations for Tree Work BS3998:2010 BSI, London.

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Ministry of Housing, Communities & Local Government. (2014). Tree Preservation Orders and trees in conservation areas. London: Ministry of Housing, Communities & Local Government.

Mattheck & Breloer, H. (1994). Research for Amenity Trees No.4: The Body Language of Trees, HMSO, London.

NHBC Standards (2007) Chapter 4.2 'Building Near Trees'. National House-Building Council.

NJUG 4 Guidelines for the planning, installation and maintenance of utility apparatus in proximity to trees. Issued 16 November 2007.

Forestry Commission (2007). Tree Felling - Getting Permission. Country Services Division, Forestry Commission, Edinburgh.

Patch, D. Holding, B. (2006) Arboricultural Practice Note 12 (APN12), Through the Trees to Development. Arboricultural Advisory and Information Service (AAIS).

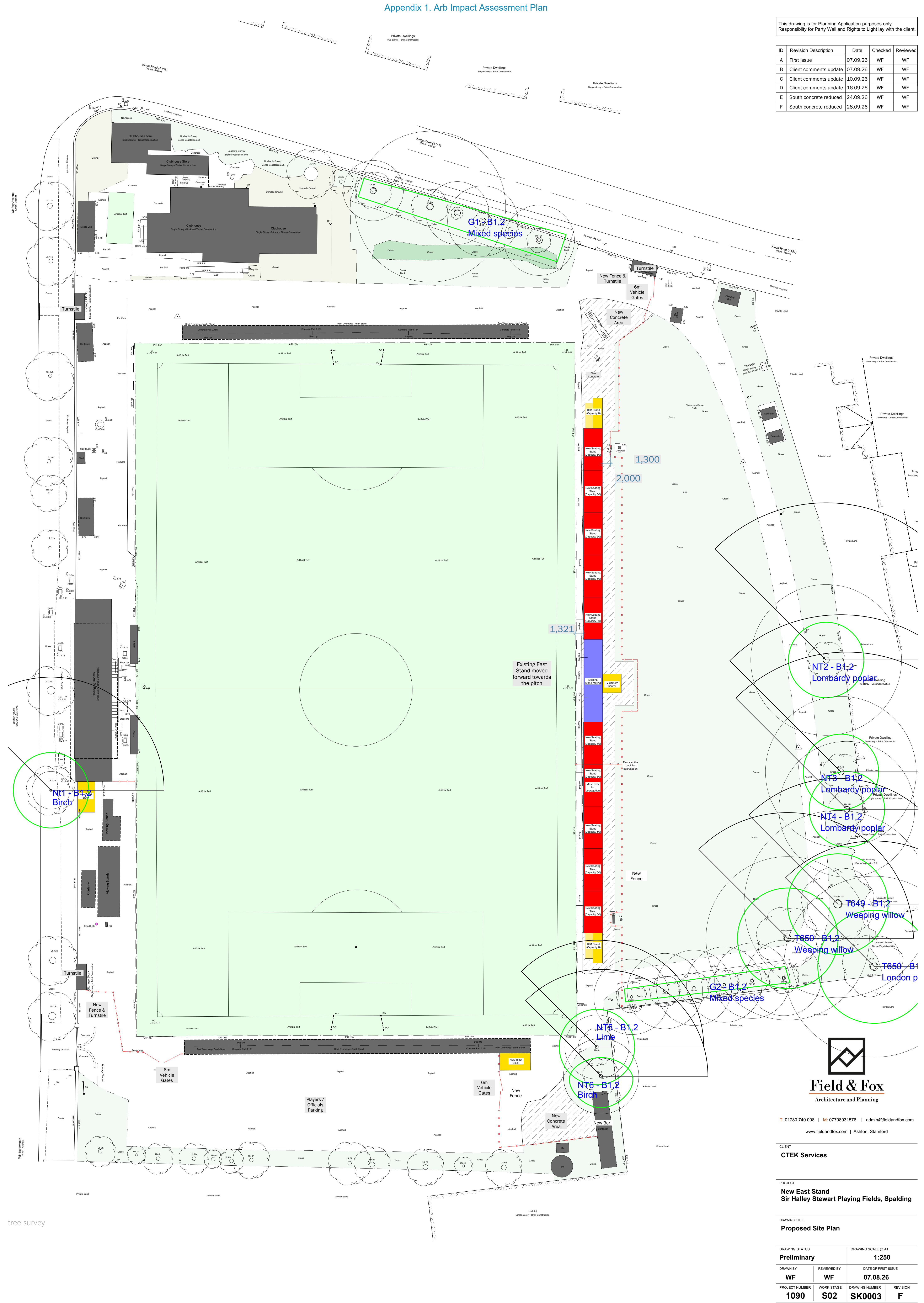
Lonsdale, D. (1999). Research for Amenity Trees No 7: Principles of Tree Hazard Assessment and Management, HMSO, London.

National Tree Safety Group (2011). Common Sense Risk Management of Trees. Forestry Commission.



This drawing is for Planning Application purposes only.
Responsibility for Party Wall and Rights to Light lay with the client.

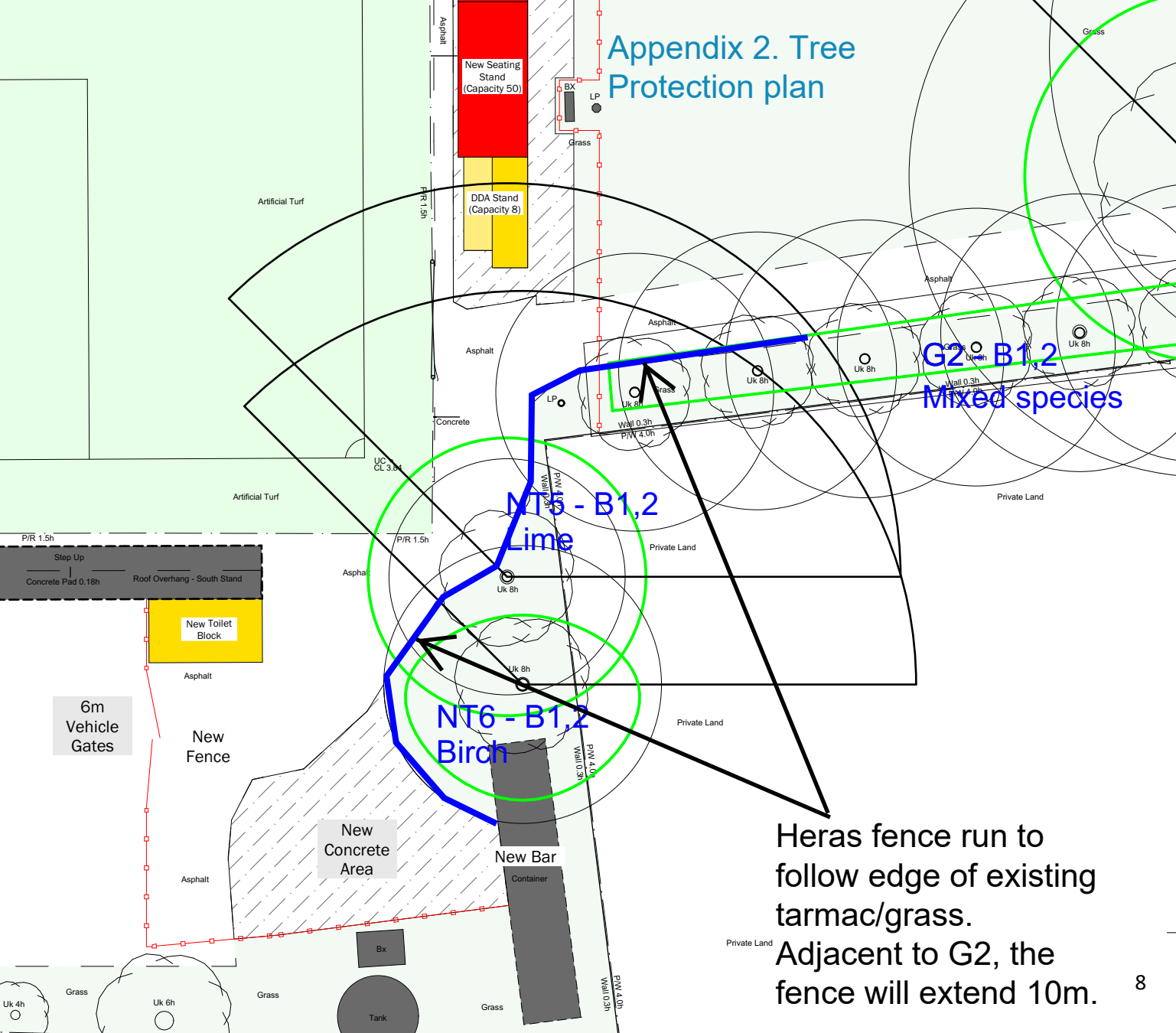
ID	Revision Description	Date	Checked	Reviewed
A	First Issue	07.09.26	WF	WF
B	Client comments update	07.09.26	WF	WF
C	Client comments update	10.09.26	WF	WF
D	Client comments update	16.09.26	WF	WF
E	South concrete reduced	24.09.26	WF	WF
F	South concrete reduced	28.09.26	WF	WF

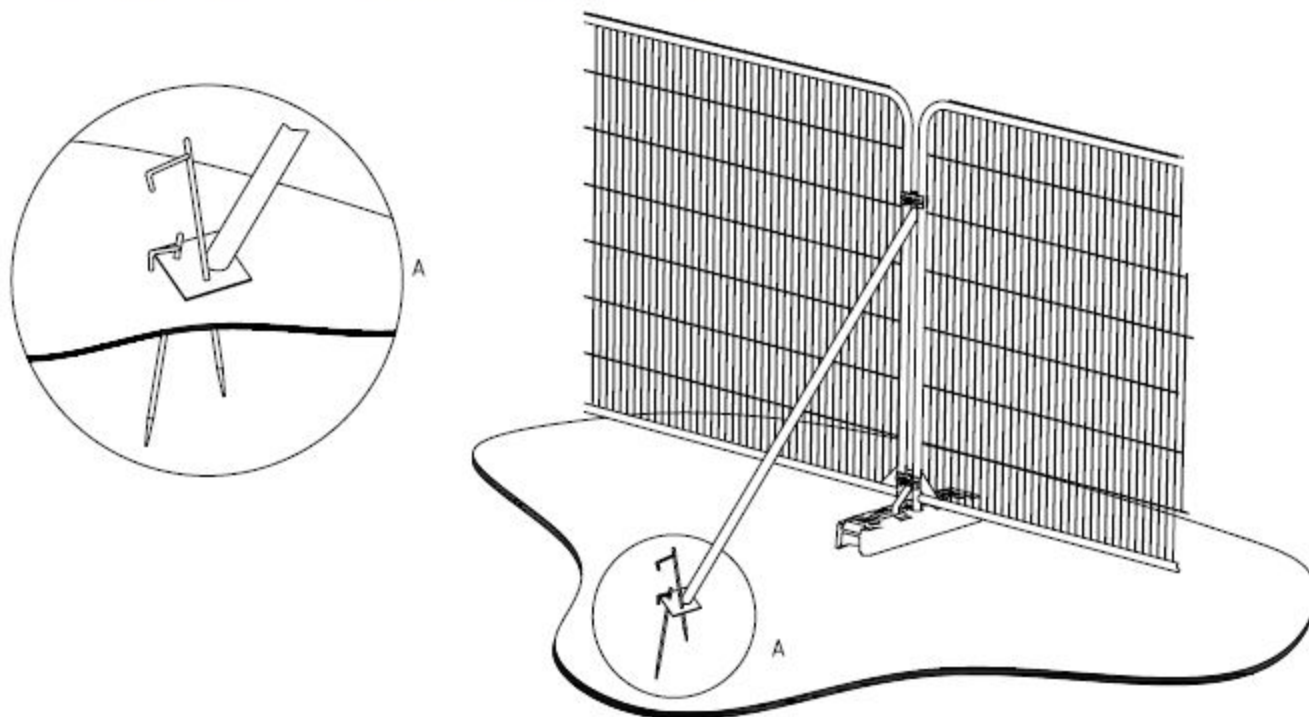


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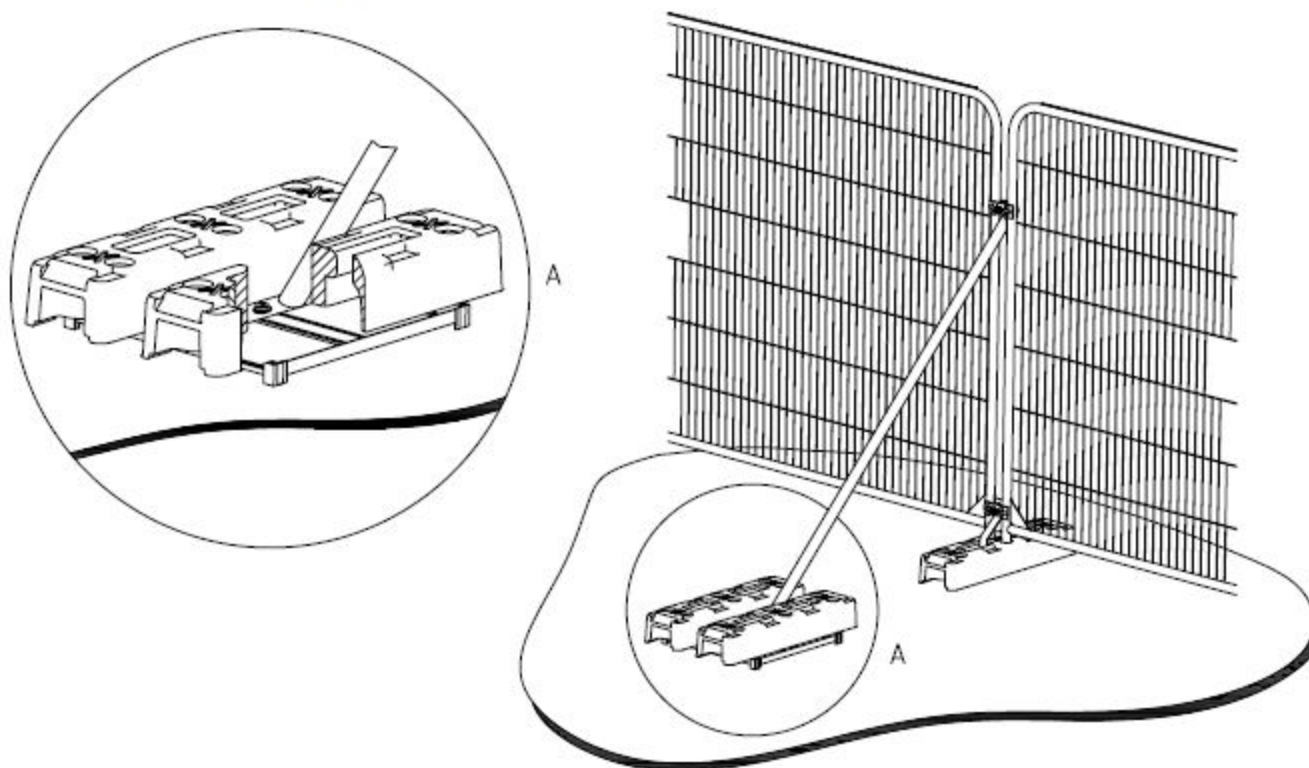
CLIENT			
CTEK Services			
PROJECT			
New East Stand Sir Halley Stewart Playing Fields, Spalding			
DRAWING TITLE			
Proposed Site Plan			
DRAWING STATUS		DRAWING SCALE @ A1	
Preliminary		1:250	
DRAWN BY	REVIEWED BY	DATE OF FIRST ISSUE	
WF	WF	07.08.26	
PROJECT NUMBER	WORK STAGE	DRAWING NUMBER	REVISION
1090	S02	SK0003	F

Appendix 2. Tree Protection plan





a) Stabilizer strut with base plate secured with ground pins



b) Stabilizer strut mounted on block tray

Appendix 4. Signs



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



**TREE PROTECTION AREA
KEEP OUT !**
(TOWN & COUNTRY PLANNING ACT 1990)
TREES ENCLOSED BY THIS FENCE ARE PROTECTED BY
PLANNING CONDITIONS AND/OR ARE THE SUBJECTS OF A
TREE PRESERVATION ORDER.
CONTRAVENTION OF A TREE PRESERVATION ORDER MAY
LEAD TO CRIMINAL PROSECUTION

ANY INCURSION INTO THE PROTECTED AREA MUST BE
WITH THE WRITTEN PERMISSION OF THE LOCAL
PLANNING AUTHORITY