ARBORICULTURAL IMPACT ASSESSMENT, METHOD STATEMENT AND TREE PROTECTION PLAN

Copthorne Recreation Ground
Copthorne Bank
Copthorne
RH10 3RE

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This report has been prepared by

PJC Consultancy Ltd

on behalf of

Worth Parish Council

Document author

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Luke is an arboriculturist with over nine years' experience working within the arboricultural and forestry industry with the latter seven years working within consultancy. He gained a foundation degree in arboriculture with distinction from the University of Brighton in 2012 and is a professional member of the Arboricultural Association and an associate member of the Institute of Chartered Foresters.

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EXECUTIVE SUMMARY

PJC Consultancy has been instructed by Worth Parish Council to provide an arboricultural impact assessment and arboricultural method statement to support a full planning application at Copthorne Recreation Ground, for a proposed new Multi Use Games Area (MUGA), relocation of existing playground and new public car park with 14 spaces.

This report complies with the planning policies of Mid Sussex District Council and complies with the recommendations of British Standard BS5837: 2012 Trees in relation to design, demolition and construction – Recommendations.

No tree preservation order protects the trees at this site and the site is not located within a conservation area.

The proposed layout has been overlaid with the tree constraints plan in order to identify the impacts to the trees to inform this impact assessment and this information has formed the basis of the tree retention plan at Appendix 3, the root protection area incursions plan at Appendix 4 and the tree protection plan at Appendix 5.

One category B Norway maple and one section of category C hawthorn hedgerow require removal to facilitate construction of the new vehicular entrance to the park as well as the associated visibility splay. Three replacement trees will be planted in the park, and the majority of the removed hedgerow will be replanted behind the visibility splay.

An existing asphalt footpath and two areas of playground surface will be removed from the root protection areas of retained trees on the road frontage. No new hard standing or level changes will be required within root protection areas.

Subject to the generic and specific tree protection measures recommended within the arboricultural method statement at section 3 of this report being adhered to, I consider that the proposals represent a minor impact on the amenity of the locality in so far as it is contributed to by trees.

1 INTRODUCTION

1.1 Instruction

1.1.1 PJC Consultancy has been instructed by Worth Parish Council to provide an arboricultural impact assessment and arboricultural method statement to support a full planning application for a proposed new Multi Use Games Area (MUGA), relocation of existing playground and new public car park with 14 spaces at Copthorne Recreation Ground.

1.1.2 This report complies with the planning policies of Mid Sussex District Council and complies with the recommendations of British Standard BS5837: 2012 Trees in relation to design, demolition and construction – Recommendations (the British Standard).

1.2 Objectives of report

1.2.1 This report has been undertaken with the following objectives:

- To identify the tree removals and pruning works that will be required as a result of the proposed development and to assess the impact of the tree works.
- To assess the potential impact the proposed construction works will have on retained trees and provide recommendations for mitigation measures to reduce the impact on the trees.
- To provide a protection methodology for retained trees throughout the demolition and construction period, including the above ground and below ground parts of the trees as well as their rooting medium.

1.3 Contents of report

1.3.1 This report includes:

- A tree constraints plan and tree survey schedule at Appendices 1 & 2 respectively.
- An arboricultural impact assessment at section 2, a tree retention plan at Appendix 3 and a root protection area incursions plan at Appendix 4.
- An arboricultural method statement at section 3 and a tree protection plan at Appendix 5.

1.4 Documents and information provided

1.4.1 The following documents were used to aid the preparation of this report:

- PJC Initial Arboricultural Report Ref: 6393/23-01
- Existing Layout Plan ref: WPC-CP-01
- Proposed Layout Plan ref: WPC-CP-02

1.5 Limitations of report

1.5.1 The following arboricultural impact assessment and method statement have been prepared for the proposal stated in section 1.1 and using the plans and information listed in section 1.4. The report should not be relied upon if the stated proposal or proposed design changes unless the author confirms the changes do not have a bearing on the arboricultural impacts or recommended mitigation measures.

2 ARBORICULTURAL IMPACT ASSESSMENT

2.1 Site visit

2.1.1 The survey was carried out on 3rd August 2023. The tree constraints plan and tree survey schedule can be found at Appendix 1 and Appendix 2 respectively.

2.1.2 No tree preservation order protects the trees at this site and the site is not located within a conservation area.

2.1.3 None of the trees surveyed for this report were assessed to be ancient or veteran specimens.

2.2 The proposals

2.2.1 The proposed layout has been overlaid with the tree constraints plan in order to identify the impacts to the trees to inform this impact assessment and this information has formed the basis of the tree retention plan at Appendix 3, the root protection area incursions plan at Appendix 4 and the tree protection plan at Appendix 5.

2.3 Tree removals

2.3.1 Trees to be removed for the proposed development are shown with dashed outlines on the tree retention plan at Appendix 3 and are shaded to indicate their BS5837 tree category.

2.3.2 Tree T5 (red Norway maple assessed as category B) requires removal as a result of direct conflict with the proposed new vehicular site entrance. The loss of T5 from the frontage of Copthorne Bank will be mitigated by planting three new trees within the site as shown on the tree retention plan. One will be planted close to the original tree by the site entrance. It is recommended that this is a red Norway maple (*Acer platanoides 'Crimson King'*) to match the original tree as well as the other Norway maples on the road frontage. The two other new trees will be planted on the eastern site boundary adjacent to the relocated playground. It is recommended that these comprise of field maple (*Acer campestre 'Elsrijk'*).

2.3.3 A section of the hawthorn hedgerow on the road frontage (H6) also requires removal due to direct conflict with the new vehicular site entrance, as well as the associated visibility splay. The section of the hedgerow removed to facilitate the visibility splay will be replanted just behind the splay as shown on the tree retention plan. The replacement section of hedgerow should comprise of bareroot stock as it will partially be planted within the root protection area of T4.

2.4 Access facilitation pruning

2.4.1 Based on the information currently available, it is anticipated that the crowns of all retained trees will be located a sufficient distance from proposed construction activities and expected construction access routes so as not to require pruning.

2.4.1 Any requirements for pruning that cannot be predicted at this stage in the design process (e.g. for contractor compound or movement of large or specialist plant machinery) shall be discussed at the pre-commencement meeting with the project arboriculturist and agreed with the local authority arboricultural officer.

2.4.2 All tree works are to be carried out in accordance with BS3998: 2010 Tree works – Recommendations.

2.5 Building footings in proximity to trees

2.5.1 No buildings are proposed as part of this development.

2.6 Hard standing in proximity to trees

2.6.1 No new hard standing will be constructed within the root protection areas of retained trees.

2.6.2 To create a level surface for the new MUGA, some level changes will be required. The MUGA has been positioned so that the level changes completely avoid the root protection areas of all retained trees as well as the adjacent boundary hedgerow (H19).

2.6.3 An existing asphalt foot path as well as two sections of 'play surface' will be removed from the root protection areas of T1-T4 in the areas hatched pink on the root protection area incursions plan and shall be replaced with topsoil and grass. The removal of these surfaces must occur sensitively as described in the arboricultural method statement.

2.7 Services

2.7.1 Details of any changes to existing services or provision for new services for the proposed development (if any) are not currently available. All underground services should be located outside the root protection areas of retained trees and above ground services should be located outside the anticipated mature crown spreads. Sympathetic methodology to enable the installation of services within root protection areas (in certain instances) is available, however there will always be a potential arboricultural impact and arboricultural advice must be sought regarding the suitability of these methods before they are relied upon. If it is achievable, root protection areas should always be completely avoided.

2.7.2 Once details of the routing of new services (if any) become available, prior to commencement, these shall be reviewed by the project arboriculturist. The arboriculturist shall then confirm either that no works will be carried out within root protection areas or provide details of the methodology required to ensure the works are carried out in accordance with NJUG4 'Guidelines for the planning, installation and maintenance of utilities in proximity to trees' and BS5837: 2012.

3 ARBORICULTURAL METHOD STATEMENT

3.1 General requirements

3.1.1 The arboricultural method statement and tree protection plan shall remain on site for the duration of construction and landscaping works and be available to site operatives at all times. All operatives at the site shall be briefed about tree related factors as part of their site induction.

3.1.2 Any variation from the methodology described in this method statement shall be discussed with the supervising arboriculturist and agreed with the local authority arboricultural officer.

3.2 Phasing of works

3.2.1 To ensure trees are protected throughout the development, the proposed development shall occur in the following order:

Table 1: Phasing of works

Works Order	Operation	Notes
1	Initial tree works.	The tree works contractor shall undertake the tree and hedgerow removals specified in the arboricultural impact assessment.
2	Installation of tree protection barriers.	Tree protection fencing shall be installed in the locations shown on the tree protection plan and to the specification described in this method statement.
3	Pre-commencement meeting.	The project arboriculturist shall attend a site meeting with the site manager. The local authority arboricultural officer shall be notified so they may also attend. The above pre-start arboricultural works shall be signed off by the project arboriculturist during the meeting. The meeting shall occur before any plant activity, ground works or construction activities begin.
4	Construction phase.	The tree protection fencing shall be maintained, and the construction exclusion zones observed throughout the construction phase. Removal of the existing hard standing from the construction exclusion zone on the southern boundary shall occur sensitively as described in this method statement.
5	Soft landscaping phase.	The tree protection fencing shall be dismantled when external construction and hard landscape operations have been completed and plant machinery or excess construction materials have been removed from site. Soft landscape operations shall occur sensitively as described in this method statement.

3.3 Initial tree works

3.3.1 The tree/hedgerow removals specified in the arboricultural impact assessment shall be carried out as the first stage of development. Any requirements for access facilitation pruning which have not been anticipated on the date of this report shall be discussed at the pre-commencement meeting with the project arboriculturist and be agreed with the local authority arboricultural officer.

3.3.2 The stumps from H6 located within the root protection areas of retained trees shall be cleared with controlled hand tools (e.g. stump grinder/mattock). Plant machinery shall not be used to scrape vegetation, 'grub out' stumps within root protection areas, or access the site until the tree protection barriers have been installed.

3.3.3 If bonfires are lit to dispose of arisings from the vegetation or tree clearance works, an assessment of wind direction and strength shall be made to ensure flames cannot extend within 5m of any part of a retained tree. No bonfires shall be lit within a root protection area.

3.3.4 Trees should be checked for protected species before works are undertaken. It is against the law to disturb bats or their roosts under the Conservation of Habitat and Species Regulations. Nesting birds are protected by the Wildlife and Countryside Act. If protected species are discovered, Natural England should be contacted for advice.

3.3.5 The tree works contractors should carry out all tree works to BS3998: 2010 Tree works – recommendations as modified by research that is more recent. They should also carry relevant, adequate and up to date insurance.

3.3.6 It is suggested that an Arboricultural Association approved contractor carry out all tree works. Approved contractors are expected to work to industry best standards. The Arboricultural Association website (www.trees.org.uk) contains contact details and information on engaging a suitable contractor.

3.4 Tree protection barriers

3.4.1 The root protection areas of retained trees must be left free from disturbance, and protected from contamination or compaction during the proposed works. Protection shall comprise of the formation of construction exclusion zones through the installation of tree protection fencing.

3.4.2 The tree protection fencing shall be installed in the locations shown on the tree protection plan and be signed off by the project arboriculturist before any plant activity, ground works or construction activities commence at the site. They shall be maintained in situ until the soft landscaping phase of development (unless otherwise stated in this report) when all other construction activities in the vicinity have been completed, and excess construction materials and plant machinery have been removed from site. Any damage that occurs to the tree protection barriers during the construction period must be rectified immediately, prior to other construction activities recommencing in the vicinity.

3.4.3 The specification for tree protection fencing shall be metal welded mesh panels (e.g. Heras panels), in concrete or rubber feet. The panels shall be supported by metal stabiliser struts mounted on either a base plate secured by ground pins, or in a block tray (refer to Appendix 6). Any variation from this specification for tree protection fencing must be agreed with the project arboriculturist.

3.4.4 Signs shall be affixed to the fencing as shown in Appendix 7 to explain its purpose. The signs shall be affixed at a reasonable size and frequency to ensure they are easily visible to operatives at the site.

3.4.5 The areas protected by tree protection fencing (highlighted yellow on the tree protection plan) shall be referred to as the construction exclusion zones. The following restrictions shall apply within the construction exclusion zones:

- No vehicular access shall be permitted unless on adequate temporary ground protection measures that have been agreed with the project arboriculturist.
- Regular pedestrian access shall be restricted unless on suitable ground protection measures agreed with the project arboriculturist.
- No storage of construction materials shall occur.
- No storage of building spoil or construction debris (including short-term temporary stockpiling) shall occur.
- No harmful chemicals shall be stored or handled.
- No fires shall be permitted.
- No mechanical excavation including regrading of levels shall occur.

- There shall be no change in ground level unless undertaken under the supervision of the project arboriculturist.
- No demolition or construction activities shall be undertaken unless otherwise specified in this method statement.

3.5 Storage and handling of harmful chemicals

3.5.1 Provision must be taken to prevent the storage and handling of harmful chemicals within the root protection areas of retained trees. Harmful chemicals include fuels, oils, bitumen, builder's sand (which has a high salt content) and cement. Provision shall also be made to prevent the storage and handling of harmful chemicals in areas proposed for further planting if the existing soil is intended to be retained.

3.5.2 Cement mixing shall always occur outside the construction exclusion zones. If cement mixing is to occur close to the construction exclusion zones, or there is the potential for cement washings to leech into a root protection area, adequate, bunded ground protection measures must be used. This could comprise impermeable plastic sheeting under wooden boards (to prevent tears) surrounded by a raised lip.

3.5.3 All other chemicals that are harmful to trees must be stowed in suitable containers and stored away from the construction exclusion zones unless adequate, bunded ground protection measures are implemented to prevent spillages leeching into root protection areas.

3.6 Contractor facilities

3.6.1 A suitable location for site cabins, contractor parking and site facilities for operatives shall be agreed with the project arboriculturist during the pre-commencement meeting if not already specified in a construction management plan that has been signed off by the project arboriculturist. These facilities must be located outside the root protection areas of all retained trees unless on adequate ground protection measures that have been signed off with the project arboriculturist (potentially including existing hard standing). Provision must be taken to prevent exhaust fumes or hot air from generators or kitchen facilities from damaging foliage within the crowns of retained trees.

3.7 Removing existing hard standing from root protection areas

3.7.1 The existing surfaces within the root protection areas of T1-T4 hatched pink on the tree protection plan are to be removed. It is anticipated that these will be removed following construction of the new site entrance as the new entrance will be used for construction traffic. As such the tree protection fencing will already be in place and sections will require temporary removal to access the hard standing. The standard restrictions to works within the construction exclusion zone will still apply at this time and the fencing must be reinstated immediately following removal of the surfaces.

3.7.2 As far as possible, the existing wearing course for the hard standing shall be broken up using controlled hand tools (e.g. pneumatic breaker) and removed from the root protection areas by hand. If it is deemed impractical or unsafe to achieve this using hand tools only, plant machinery operated under the supervision of the project arboriculturist may be used instead. If plant machinery is used, a banksman must always be present to spot overhanging branches that are not visible to the machine operator. The machine must also be of a reasonable size so it can be controlled safely in proximity to the trees, and be fitted with a narrow, toothless bucket. It must also always be operated from outside the root protection areas unless suitable ground protection measures are agreed with the project arboriculturist. Debris from the demolition works must be stockpiled outside the construction exclusion zones.

3.7.3 To minimise the chance of encountering tree roots, as much of the sub-base shall be retained below ground level as is feasible, with a layer of topsoil imported to enable soft landscaping. If it is deemed necessary to remove the sub-base to allow sufficient soil volume to be imported for the proposed soft landscaping, the sub-base shall be removed carefully in shallow increments following the same methodology required for removing the wearing course.

3.8 Soft landscaping within root protection areas

3.8.1 Soft landscaping within the root protection areas of retained trees shall occur as the final phase of development, when all other construction activities in the vicinity have been completed and it is safe to dismantle the tree protection fencing.

3.8.2 The specification for soft landscaping includes the planting of a replacement hedgerow within the root protection area of T4. It is also anticipated that turfing or seeding will potentially occur within the root protection areas of T1-T4 following removal of the existing hard standing.

3.8.3 All planting stock, topsoil and other soft landscaping materials shall be stockpiled outside the root protection areas of retained trees. When the tree protection barriers have been dismantled, the extents of the root protection areas shall be made clear to operatives at the site by other means (e.g. ground marker paint or similar). The standard restrictions to works within the construction exclusion zones will still apply during the soft landscaping phase of development.

3.8.4 All planting pits within root protection areas shall be individually hand excavated (no trench planting). Care must be taken to avoid severing or damaging roots with a diameter greater than 25mm.

3.8.5 When soil or other materials are transported across a root protection area in wet conditions, scaffold board pathways must be used to prevent compaction of the rooting medium. It should be noted that even regular pedestrian traffic can compact the soil in wet conditions.

3.8.6 Where new turf or grass seed is to be laid within the root protection areas of retained trees, topsoil will likely need to be imported. The existing soil may be lightly tilled by hand but use of rotavators or plant machinery will be prohibited. A maximum increase of 100mm of topsoil may be introduced to a root protection area to avoid suffocating existing root growth. Care must be taken to prevent soil being piled against tree buttresses or buttress roots.

3.9 Pre-commencement meeting

3.9.1 A pre-commencement meeting shall be held between the contractors and the project arboriculturist. The local authority arboricultural officer shall be given reasonable notice of the pre-commencement meeting so they may also attend. The purpose of the pre-commencement meeting shall be:

1. To clarify the tree protection methodology with the site manager.
2. To discuss the chronology and phasing of the project with the site manager.
3. To sign off that the pre-commencement tree works have been completed as specified in the arboricultural impact assessment, and to discuss any requirements for any further pruning which had not been anticipated prior to the meeting.
4. To sign off that the tree protection fencing has been installed in the correct locations and to the agreed specification.

5. To agree with the local authority arboricultural officer the type and timings of arboricultural monitoring necessary.

3.9.2 Following this meeting, if the local authority arboricultural officer has not been able to attend, an email outlining the actions discussed will be sent to the tree officer for approval. If necessary, a revised tree protection plan and method statement will be issued for approval.

3.10 Arboricultural supervision

3.10.1 The project arboriculturist shall supervise the removal of hard standing from within the root protection areas of T1-T4 if plant machinery is used.

3.11 Arboricultural monitoring

3.11.1 The site manager shall provide a monthly update to the project arboriculturist including photographic evidence that the tree protection barriers are intact and that the construction exclusion zones have been observed.

3.11.2 In addition to the above, a system and programme of onsite monitoring by the appointed arboricultural consultant shall be agreed with the Local Authority Arboricultural Officer. The form and frequency of site monitoring shall be agreed at the pre-commencement meeting.

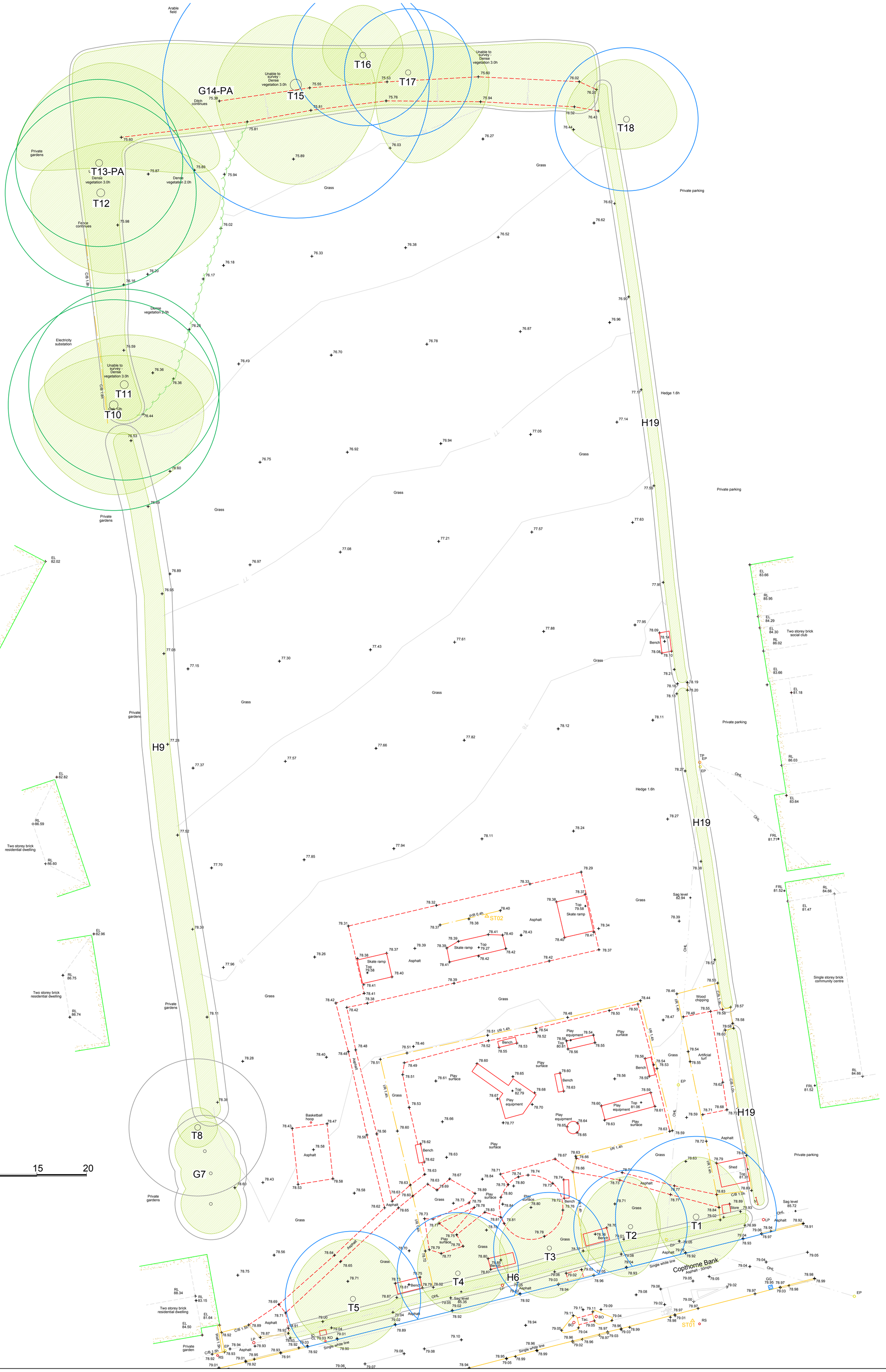
3.12 Process if an unforeseen issue relating to trees arises

3.12.1 If significant root growth is disturbed during construction activities that are not within the scope of this report, the work shall cease until the project arboriculturist has been consulted. Roots greater than 25mm in diameter or dense/matted fibrous roots shall be considered significant root growth. It should be remembered that whilst root protection areas are part of industry best practice, tree root growth is influenced by a number of factors and may not conform to expected ideals.

3.12.2 If at any time during the construction process, damage is inadvertently caused to a tree, the project arboriculturist shall be notified to assess the likely implications and to prescribe potential remedial measures to be implemented. Damage can be in the form of chemical or fuel spillage, mechanical damage to either the above ground parts of the tree or the roots, fire or any other unforeseen circumstance.

3.12.3 The supervising arboriculturist shall be appointed by the contractor. It will be necessary for the arboriculturist to report to the local planning authority on the outcome of the site visits as well as any unforeseen tree related issues.

Appendix 1: Tree Constraints Plan



* Tree categorised in accordance with BS 5837:2012 '*Trees in relation to design, demolition and construction - Recommendations*'.

Tree survey schedule contained within the arboricultural report ref. PJC/6393/23-01 contains further information for each tree.

This drawing should be viewed in colour.

Tree numbers suffixed with PA indicate the tree position is approximate.

Key:

- Root protection area for category A* tree
- Root protection area for category B* tree
- Root protection area for category C* tree
- Tree canopy

Drawing no: PJC/6393/23/A **Rev:** - **Sheet number:** 1 of 1

Client and site:
Worth Parish Council

Copthorne Recreation Ground
Copthorne Bank
Copthorne, RH10 3RE

Drawing title: Tree Constraints Plan

Date drawn: 04/08/2023

Scale: 1:200 at A1

Drawn by: PD **Checked by:** LW

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Appendix 2: Tree Survey Schedule

Site: Copthorne Recreation Ground

Survey date: 03/08/2023

Surveyor: Peter Davies

Tree Survey Schedule

Tree ref.	Species	Height (m)	Stem diameter (mm)	Branch spread (m)	Crown clearance (m)	Age class	Physiological condition	Structural condition	Comments	Management recommendation	Category grading	Root Protection Area (m^2)	Root Protection Radius (m)
T1	Red Norway maple (Acer platanoides 'Crimson King')	12	400, 240, 350	N: 6 E: 5 S: 5 W: 4	Crown: 2 average Branch: 3 average	Mature	Good	Fair	Three stems from 1m with minor bark inclusions. Previously crown lifted.	No action required.	B1+2	153.9	7.0 (amended on tree constraints plan)
T2	Tree of heaven (Ailanthus altissima)	12	450	N: 5 E: 3 S: 5 W: 5	Crown: 2 average Branch: 3 average	Mature	Good	Good	Slightly suppressed to east by T1. Multi-stemmed from 2m. Previously crown lifted.	No action required.	B1+2	91.6	5.4 (amended on tree constraints plan)
T3	Red Norway maple (Acer platanoides 'Crimson King')	9	440	N: 5 E: 4 S: 5 W: 5	Crown: 1.5 west Branch: 2 average	Mature	Good	Fair	Moderate bark wound to 1m on south side of stem. Some root gridling at base.	No action required.	B2	87.6	5.3 (amended on tree constraints plan)
T4	Tree of heaven (Ailanthus altissima)	12	470	N: 6 E: 5 S: 4 W: 4	Crown: 2 north Branch: 3 average	Mature	Good	Good	Previously crown lifted. No major visible defects.	No action required.	B1+2	99.9	5.6 (amended on tree constraints plan)
T5	Red Norway maple (Acer platanoides 'Crimson King')	13	510	N: 6 E: 5 S: 5 W: 6	Crown: 2 average Branch: 2.5 average	Mature	Good	Good	Previously crown lifted. No major visible defects.	Fell and remove stump.	B1+2	117.7	6.1 (amended on tree constraints plan)
H6	Hawthorn (Crataegus monogyna)	1-1.5 average	Under 75 average	1 average	0 average	Early mature	Fair	Fair	Pruned hedgerow on road frontage. Smothered by ivy.	Clear section shown on tree retention plan.	C2	2.5 average	0.9 average

Site: Copthorne Recreation Ground

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Tree Survey Schedule

Tree ref.	Species	Height (m)	Stem diameter (mm)	Branch spread (m)	Crown clearance (m)	Age class	Physiological condition	Structural condition	Comments	Management recommendation	Category grading	Root Protection Area (m^2)	Root Protection Radius (m)
G7	Lawson cypress (Chamaecyparis lawsoniana 'Fletcheri')	7 average	300 average est	3 average	0 average	Mature	Fair	Fair	Third party trees viewed from site. Minor split limbs.	No action required.	C2	40.7 average	3.6 average
T8	Lawson cypress (Chamaecyparis lawsoniana)	13	450, 300, 200 est	N: 2 E: 2 S: 2 W: 2	Crown: 1 average Branch: 2 average	Mature	Good	Good	Third party tree viewed from site. Multi-stemmed from 1m. No major visible defects.	No action required.	C2	150.4	6.9
H9	Mixed (field maple, hawthorn, hornbeam, hazel)	3-4 average	Up to 150 average est	2 average	0 average	Mature	Good	Good	Mixed native hedgerow on park boundary.	No action required.	C2	10.2 average	1.8 average
T10	Pedunculate oak (Quercus robur)	16	880	N: 5 E: 9 S: 9 W: 8	Crown: 2 average Branch: 4 average	Mature	Good	Good	Asymmetric crown due to proximity to T11. Ivy encroaches crown. Under-storey inhibits inspection.	Sever ivy around base.	A1+2	350.4	10.6
T11	Pedunculate oak (Quercus robur)	19	800 est	N: 5 E: 9 S: 5 W: 8	Crown: 2 north Branch: 4 east	Mature	Good	Fair	Companion tree to T10. Shape of crown suggests past tree removal to north. Dense ivy and under-storey inhibit inspection.	Clear under-storey sufficiently to undertake thorough inspection of stem. Next inspection should occur in dormant season.	A2	289.5	9.6
T12	Pedunculate oak (Quercus robur)	18	800 est	N: 5 E: 12 S: 8 W: 7	Crown: 1 east Branch: 4 east	Mature	Good	Good	Minor dead wood at tips. Minor snapped limbs in crown. Under-storey inhibits inspection.	Clear under-storey sufficiently to undertake thorough inspection of stem. Remove dead wood over 75mm diameter and/or 1m length above third party garden.	A2	289.5	9.6

Site: Copthorne Recreation Ground

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Tree Survey Schedule

Tree ref.	Species	Height (m)	Stem diameter (mm)	Branch spread (m)	Crown clearance (m)	Age class	Physiological condition	Structural condition	Comments	Management recommendation	Category grading	Root Protection Area (m^2)	Root Protection Radius (m)
T13	Pedunculate oak (Quercus robur)	18	700 est	N: 10 E: 12 S: 0 W: 8	Crown: 5 east Branch: 5 east	Mature	Good	Fair	Companion tree to T12. One sided crown. Historic root plate movement. Under-storey significantly inhibits inspection of stem.	Clear under-storey sufficiently to undertake thorough inspection of stem. Next inspection should occur in dormant season.	A2	221.7	8.4
G14	Mixed (holly, hawthorn, blackthorn, hazel, elder)	2-5 average	Up to 150 average est	1-4 average	0 average	Semi mature-mature	Good	Fair	Mixed native scrub area.	No action required.	C1+2	10.2 average	1.8 average
T15	Pedunculate oak (Quercus robur)	18	1120	N: 7 E: 8 S: 10 W: 8	Crown: 2 south Branch: 3 average	Mature	Poor	Good	Flaccid foliage. Dieback on south-east crown. Cankers on crown possible symptom of acute oak decline.	Monitor annually. Ameliorate root protection area if required.	B1+2	567.6	13.4
T16	Pedunculate oak (Quercus robur)	14	590	N: 5 E: 4 S: 3 W: 4	Crown: 2 north Branch: 3 west	Early mature	Good	Good	Asymmetric crown due to suppression. No major visible defects.	No action required.	B1+2	157.5	7.1
T17	Pedunculate oak (Quercus robur)	15	530	N: 4 E: 8 S: 9 W: 3	Crown: 2 south Branch: 2 south	Early mature	Good	Good	Asymmetric crown due to suppression. No major visible defects.	No action required.	B1+2	127.1	6.4
T18	Pedunculate oak (Quercus robur)	17	600 est	N: 6 E: 5 S: 3 W: 6	Crown: 4 average Branch: 4 average	Mature	Fair	Good	Third party tree. Stem smothered by bindweed. Crown appear to have been heavily reduced on south side and contains profuse epicormic shoots.	No action required.	B1+2	162.9	7.2

Site: Copthorne Recreation Ground

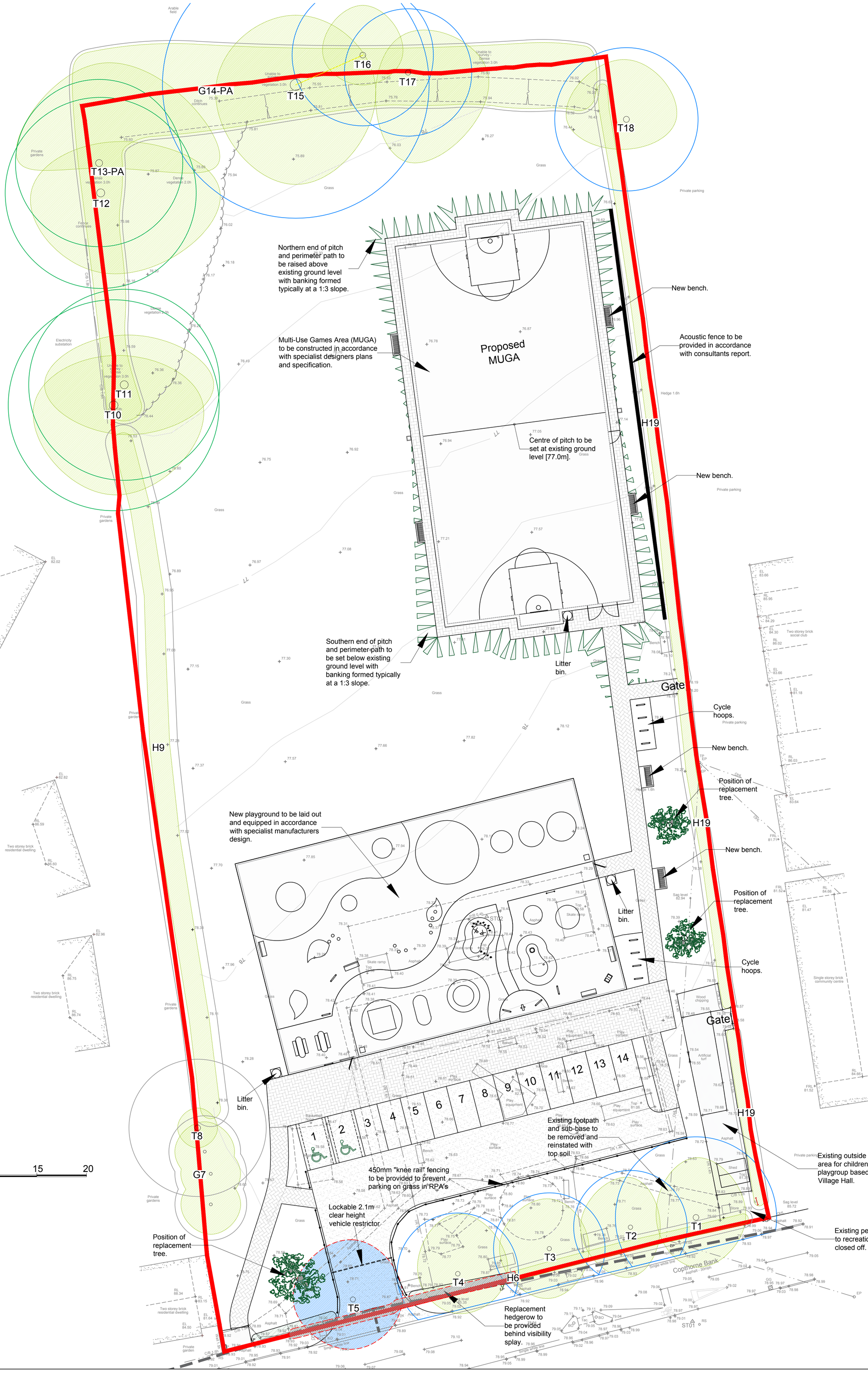
Survey date: 03/08/2023

Surveyor: Peter Davies

Tree Survey Schedule

Tree ref.	Species	Height (m)	Stem diameter (mm)	Branch spread (m)	Crown clearance (m)	Age class	Physiological condition	Structural condition	Comments	Management recommendation	Category grading	Root Protection Area (m^2)	Root Protection Radius (m)
H19	Mixed (field maple, hornbeam, hawthorn, holly)	1.5-2 average	Under 75 average	1 average	0 average	Semi mature	Good	Good	Pruned native hedgerow.	No action required.	C2	2.5 average	0.9 average

Appendix 3: Tree Retention Plan



* Tree categorised in accordance with BS 5837:2012 '*Trees in relation to design, demolition and construction - Recommendations*'.

Tree survey schedule contained within the arboricultural report ref. PJC/6393/24-02 contains further information for each tree.

This drawing should be viewed in colour.

Tree numbers suffixed with PA indicate the tree position is approximate.

Key:

- Root protection area for category A* tree to be retained
- Root protection area for category B* tree to be retained
- Root protection area for category C* tree to be retained
- Canopy of tree to be retained
- Canopy of category B* tree to be removed
- Canopy of category C* tree to be removed
- New tree to be planted
- New hedgerow to be planted

Drawing no: PJC/6393/24/B **Rev:** - **Sheet number:** 1 of 1

Client and site:
Worth Parish Council

Copthorne Recreation Ground
Copthorne Bank
Copthorne, RH10 3RE

Drawing title: Tree Retention Plan

Date drawn: 27/03/2024

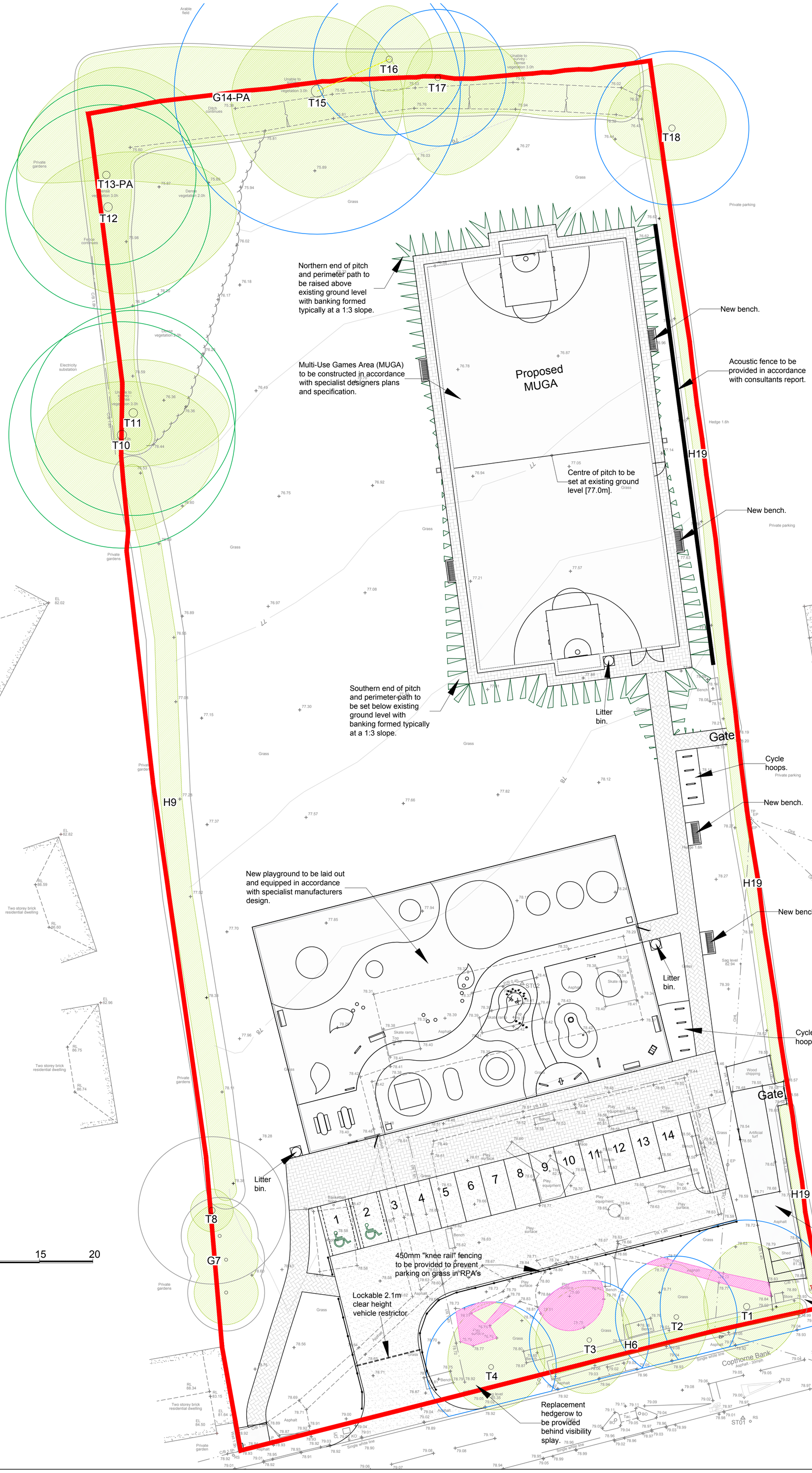
Scale: 1:200 at A1

Drawn by: PD **Checked by:** LW

PJC Consultancy
Rocks Yard, Victoria Road,
Herstmonceux, Hailsham, East Sussex,
BN27 4TQ.

t: 01323 832120
e: contact@pjcconsultancy.com
w: www.pjcconsultancy.com

Appendix 4: Root Protection Area Incursions Plan



* Tree categorised in accordance with BS 5837:2012 '*Trees in relation to design, demolition and construction - Recommendations*'.

Tree survey schedule contained within the arboricultural report ref. PJC/6393/24-02 contains further information for each tree.

This drawing should be viewed in colour.

Tree numbers suffixed with PA indicate the tree position is approximate.

Key:

- Root protection area for category A* tree to be retained
- Root protection area for category B* tree to be retained
- Root protection area for category C* tree to be retained
- Canopy of tree to be retained
- Existing hard standing to be removed

Drawing no: PJC/6393/24/C **Rev:** - **Sheet number:** 1 of 1

Client and site:
Worth Parish Council

Copthorne Recreation Ground
Copthorne Bank
Copthorne, RH10 3RE

Drawing title: Root Protection Area Incursions Plan

Date drawn: 27/03/2024

Scale: 1:200 at A1

Drawn by: PD **Checked by:** LW

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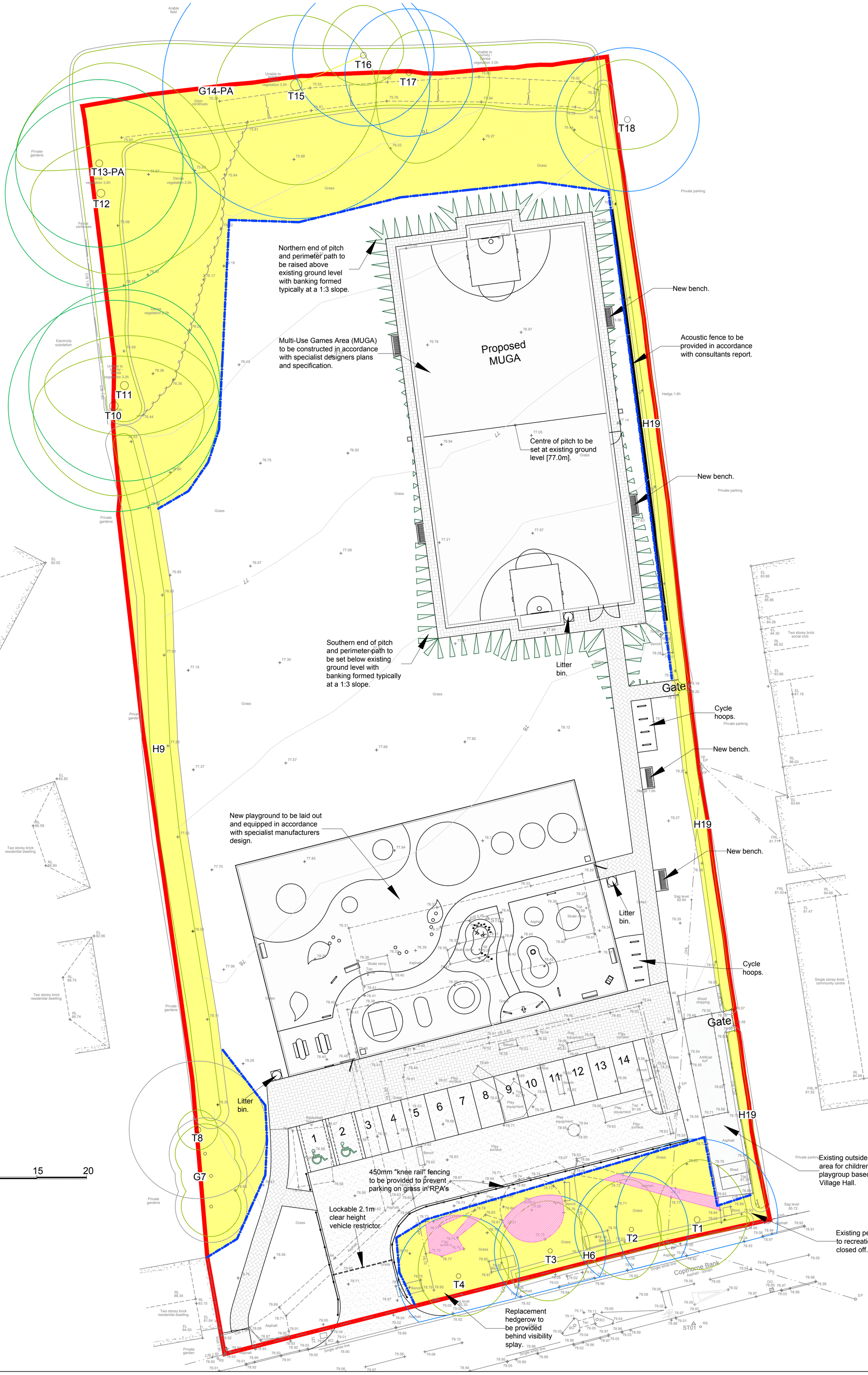
Appendix 5: Tree Protection Plan



* Tree categorised in accordance with BS 5837:2012 '*Trees in relation to design, demolition and construction - Recommendations*'.

Tree survey schedule contained within the arboricultural report ref. PJC/6393/24-02 contains further information for each tree.

This drawing should be viewed in colour.

Tree numbers suffixed with PA indicate the tree position is approximate.

Key:

- Root protection area for category A* tree to be retained
- Root protection area for category B* tree to be retained
- Root protection area for category C* tree to be retained
- Canopy of tree to be retained
- Existing hard standing to be removed
- Tree protection fencing
- Construction exclusion zone

Drawing no: PJC/6393/24/D **Rev:** - **Sheet number:** 1 of 1

Client and site:
Worth Parish Council

Copthorne Recreation Ground
Copthorne Bank
Copthorne, RH10 3RE

Drawing title: Tree Protection Plan

Date drawn: 27/03/2024

Scale: 1:200 at A1

Drawn by: PD **Checked by:** LW

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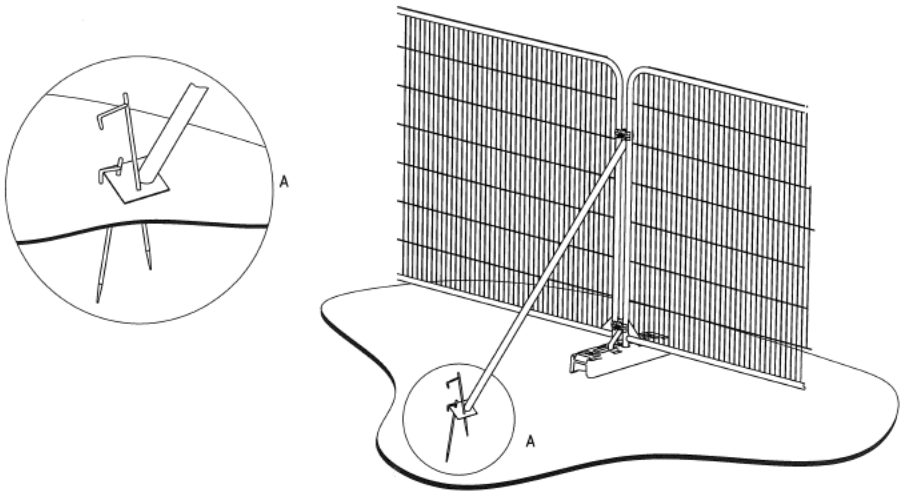
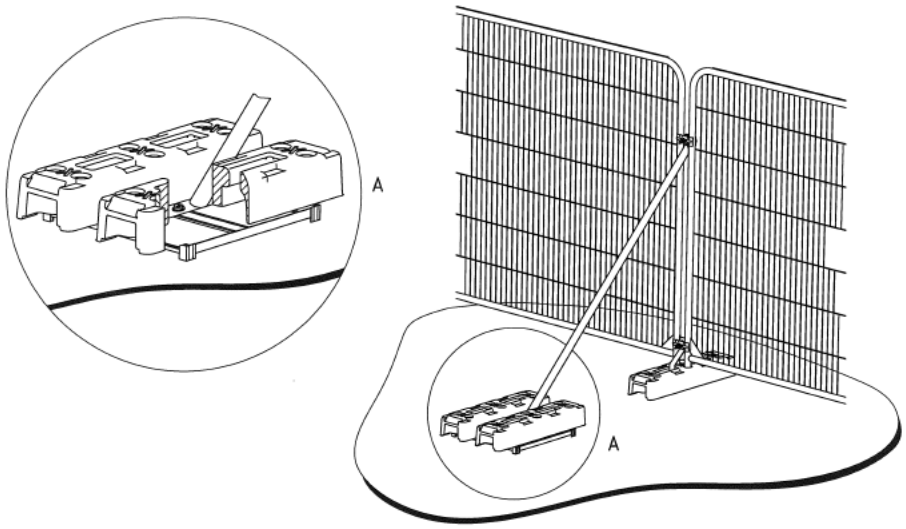
Appendix 6: Tree Protection Fencing Specification



a) Stabilizer strut with base plate secured with ground pins



b) Stabilizer strut mounted on block tray

Appendix 7: Example Protective Fencing Sign

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