

**Key plan**

North

Existing Trees to be retained and protected- Refer to Arboriculture Survey and Report.

Extent of Tree Root Protection Area (RPA)- As identified within Arboriculture Survey and Report.

Proposed Tree Protection Fencing- Refer to typical detail for fencing and signage below.

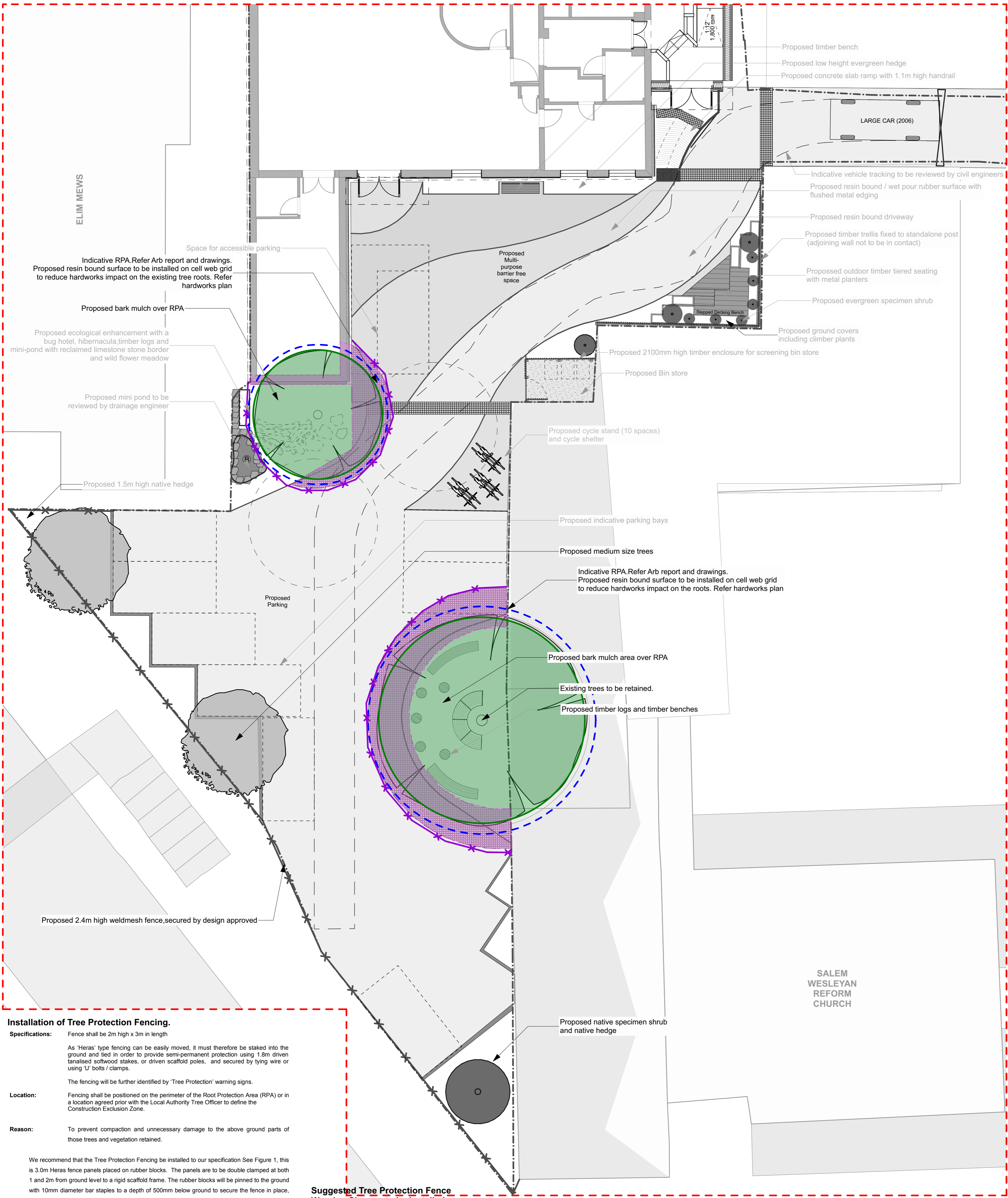
Proposed areas where excavation required within RPA- to be carried out in accordance with Arboriculture Impact Assessment and Method Statement- using restrictive dig/ no machinery under supervision of Arborist.

**NOTE:**  
Tree Protection shown is indicative based on the current Arboricultural Survey Report Doc No.

All Tree Protection Fencing Locations and Works are assumed and to be further verified and checked by Qualified Arborist as part of any further survey works and production of an Arboricultural Impact Assessment (AIA) report.

Any works within the identified and highlighted root protection zones will require a specialist air spade and no mechanical dig/ excavation under the supervision of an Arboriculturist.

Mitigation for any exposed Tree Root retention and protection during works and upon completion is to be provided by Arboriculturist in the form of Arboriculture Method Statements and supervision on site.



**Installation of Tree Protection Fencing.**

**Specifications:** Fence shall be 2m high x 3m in length

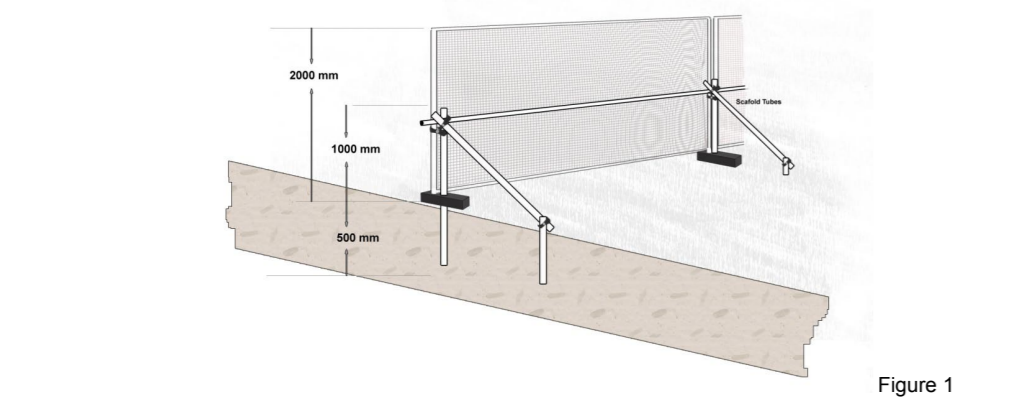
As 'Heras' type fencing can be easily moved, it must therefore be staked into the ground and tied in order to provide semi-permanent protection using 1.8m driven galvanised softwood stakes, or driven scaffold poles, and secured by tying wire or using 'U' bolts / clamps.

The fencing will be further identified by 'Tree Protection' warning signs.

**Location:** Fencing shall be positioned on the perimeter of the Root Protection Area (RPA) or in a location agreed prior with the Local Authority Tree Officer to define the Construction Exclusion Zone.

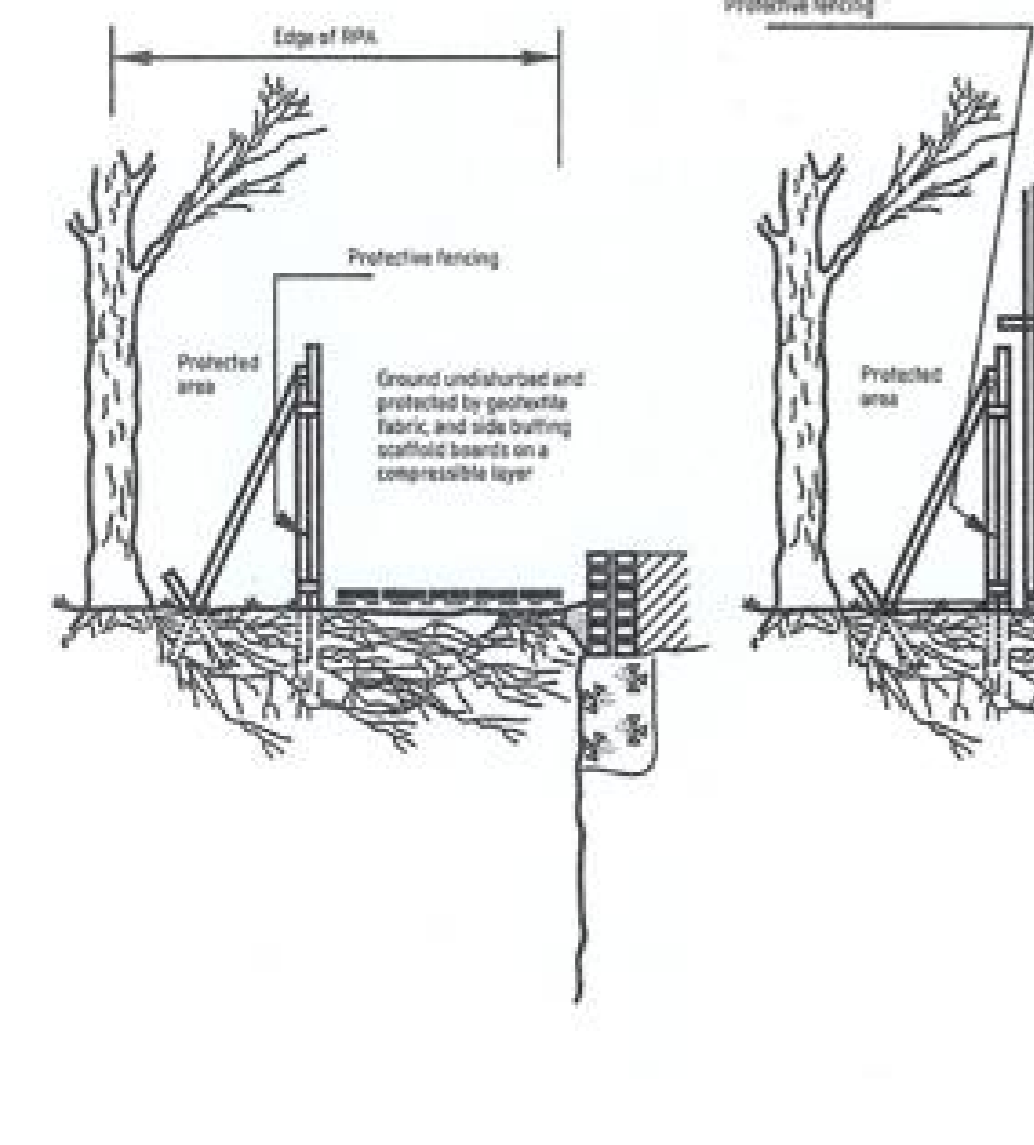
**Reason:** To prevent compaction and unnecessary damage to the above ground parts of those trees and vegetation retained.

We recommend that the Tree Protection Fencing be installed to our specification See Figure 1, this is 3.0m Heras fence panels placed on rubber blocks. The panels are to be double clamped at both 1 and 2m from ground level to a rigid scaffold frame. The rubber blocks will be pinned to the ground with 10mm diameter bar staples to a depth of 50mm below ground to secure the fence in place, also increasing overall strength. Further to this we also recommend that hoarding be installed to cover the bottom half of the Heras fencing panels to prevent any soil silage into root protection areas given that some fencing will slightly encroach into these areas were identified.



Prior to commencing any enabling or construction works, the tree protection measures should be inspected by the appointed arboricultural consultant and signed off during the first site inspection.

**Use of Scaffolding & Installation within extent of RPA (root protection area)**

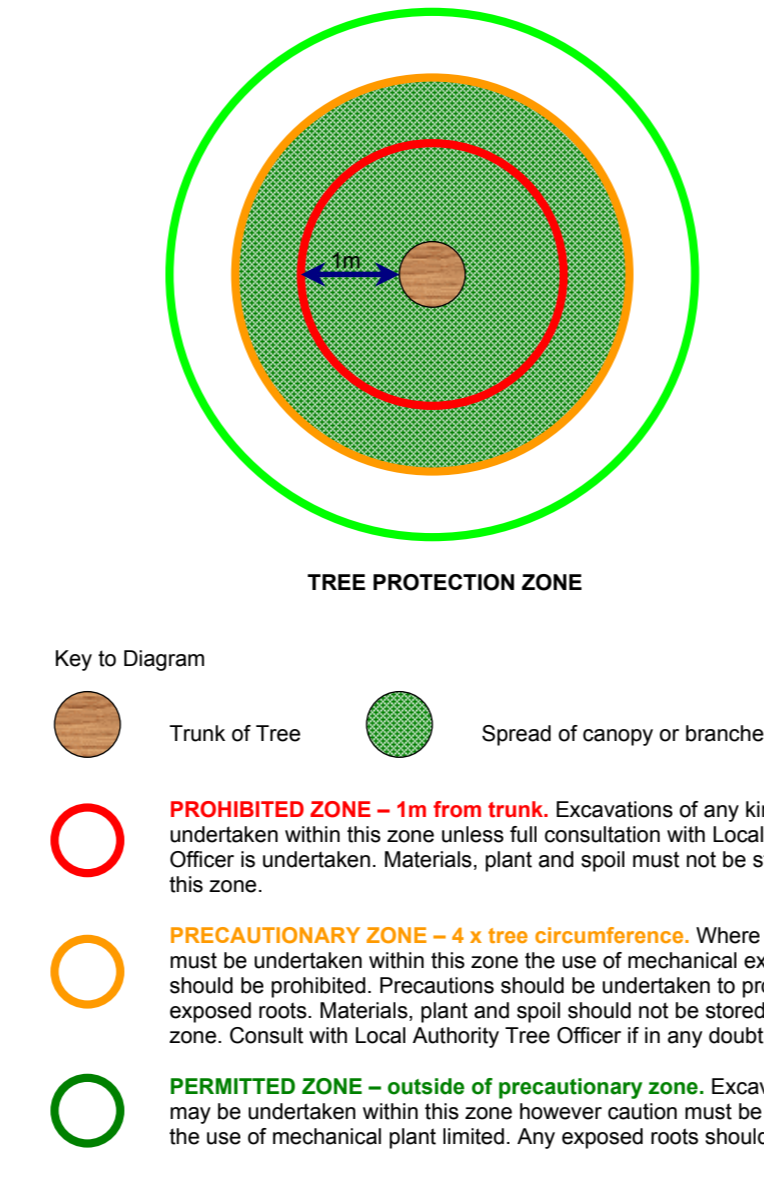


**Suggested Tree Protection Fence Warning Signage to be installed.**



**TREE PROTECTION AREA**  
KEEP OUT  
(TOWN & COUNTRY PLANNING ACT 1990)  
THE VEGETATION PROTECTED BY THIS FENCE IS PROTECTED BY PLANNING CONDITIONS AND/OR IS THE SUBJECT OF A TREE PRESERVATION ORDER.  
IF YOU REQUIRE ACCESS INTO THIS AREA PLEASE CONTACT THE SITE AGENT

**NJUG guidelines for the planning, installation and maintenance of Utilities in Proximity to trees.**



**DAMAGE TO TREES**  
Tree roots keep a tree healthy and upright. Most roots are found in the top 600mm of soil and often grow out further than the tree's height. The majority of these roots are very fine; even close to a tree few will be thicker than a pencil. Most street tree roots grow under the footway but may also extend under the carriageway. If roots are damaged the tree may suffer irreversible harm and eventually die.

**PROTECTING ROOTS - DO'S and DON'TS**  
There are three designated zones around a tree each of which has its own criteria for working practices.

**THE PROHIBITED ZONE**

- Don't excavate within this zone.
- Don't use any form of mechanical plant within this zone
- Don't store materials, plant or equipment within this zone.
- Don't move plant or vehicles within this zone.
- Don't lean materials against, or chain plant, to the trunk.
- Do contact the local authority tree officer or owner of the tree if excavation within this zone is unavoidable.
- Do protect any exposed roots uncovered within this zone with dry sacking.
- Do backfill with a suitable inert granular and top soil material mix as soon as possible on completion of works.
- Do notify the local authority tree officer or the tree's owner of any damage.

**THE PRECAUTIONARY ZONE**

- Don't excavate with machinery. Where excavation is unavoidable within this zone excavate only by hand or use trenchless techniques.
- Don't cut roots over 25mm in diameter, unless advice has been sought from the local authority tree officer.
- Don't repeatedly move / use heavy mechanical plant except on hard standing.
- Don't store spoil or building material, including chemicals and fuels, within this zone.
- Do prune roots which have to be removed using a sharp tool (e.g. secateurs or hand saw). Make a clean cut and leave as small a wound as possible.
- Do backfill the trench with an inert granular material and top soil mix. Compact the backfill with care around the retained roots. On non highway sites backfill only with excavated soil.
- Do protect any exposed roots with dry sacking ensuring this is removed before backfilling.
- Do notify the local authority tree officer or the tree's owner of any damage.

**THE PERMITTED ZONE**

- Don't cut roots over 25mm in diameter, unless advice has been sought from the local authority tree officer.
- Do use caution if it is absolutely necessary to operate mechanical plant within this zone.
- Do prune roots which have to be removed using a sharp tool (e.g. secateurs or hand saw). Make a clean cut and leave as small a wound as possible.
- Do protect any exposed roots with dry sacking ensuring this is removed before backfilling.
- Do notify the local authority tree officer or the tree's owner of any damage.

Tree Protection Strategy 1:100

P01	Issued for Planning Information	SR	SR	01/08/2024
Rev	Description	Drawn	Checked	Date

**BOND BRYAN**

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**Barnsley Metropolitan Borough Council**

**Barnsley Levelling Up Fund**  
Barnsley YMCA/Chilypep

**Proposed Tree Protection Strategy Plan**

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