BARNES associates ltd
SURVEY MANAGE IMPROVE

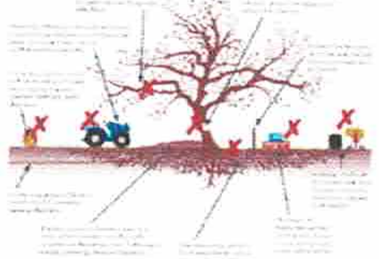
TREE PROTECTION

DO'S | **DON'TS**

TREE ROOTS

TREES ROOTS

We must all avoid any unauthorised damage to trees.



RESULTS OF BREACHING THE CEZ

- **Soil Compaction**
- **Excavation**
- **Turf or Soil Removal**
- **Canopy/Branch Damage**
- **Chemical Spill Including Cement**
- **Fires**

Help avoid costly Shut downs and financial penalties

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NOTES - Where works to trees are proposed on site, or to overhanging vegetation to enable construction, this shall be undertaken by qualified tree surgeon in accordance with the requirements of BS3998:2010, prior to the installation of Protective Fencing.

Retained trees and vegetation, either within the site or on adjacent land, shall be protected where necessary during works by 2300mm high mesh panel (Heras type) fencing secured to a scaffold tubing framework or supported on a suitable base pinned into the ground and connected by none tamper fixings.

Protective fencing shall be erected outside the canopy drip-line or beyond the minimum Root Protection Area (RPA) distance wherever possible. The tree works & fencing works shall be carried out prior to any demolition, groundworks, construction works.

Laminated, waterproof A4 signs shall be fixed to the fence posts at 10m intervals bearing the words 'CONSTRUCTION EXCLUSION ZONE - NO STORAGE OR OPERATIONS WITHIN FENCED AREA as per the example on the plan.

PROTECTION OF CONSTRUCTION EXCLUSION ZONE

Inside the exclusion area of the fencing, the following prohibitions shall apply: -

- No mechanical excavation whatsoever.
- No excavation by any other means without arboricultural site monitoring.
- No hand digging without a written Method Statement approved in writing by the Project Arborist.
- No lowering of levels for any purpose (except removal of grass sward using hand tools).
- No construction of a sealed hard surface - except where agreed with the Project Arborist.
- No storage of plant or materials.
- No storage or handling of any chemical, including cement washings.
- No vehicular access.

No fire lighting. In addition to the above, further precautions are necessary adjacent to trees: -

- A 10m separation distance shall be observed between any tree and substances injurious to tree health, including fuel, oil, bitumen, cement (including cement washings), builders' sand, concrete mixing and other chemicals.
- No fire shall be lit such that flames come within 5m of tree foliage; this shall be taken to mean a fire separation distance of 20m from any tree's canopy.

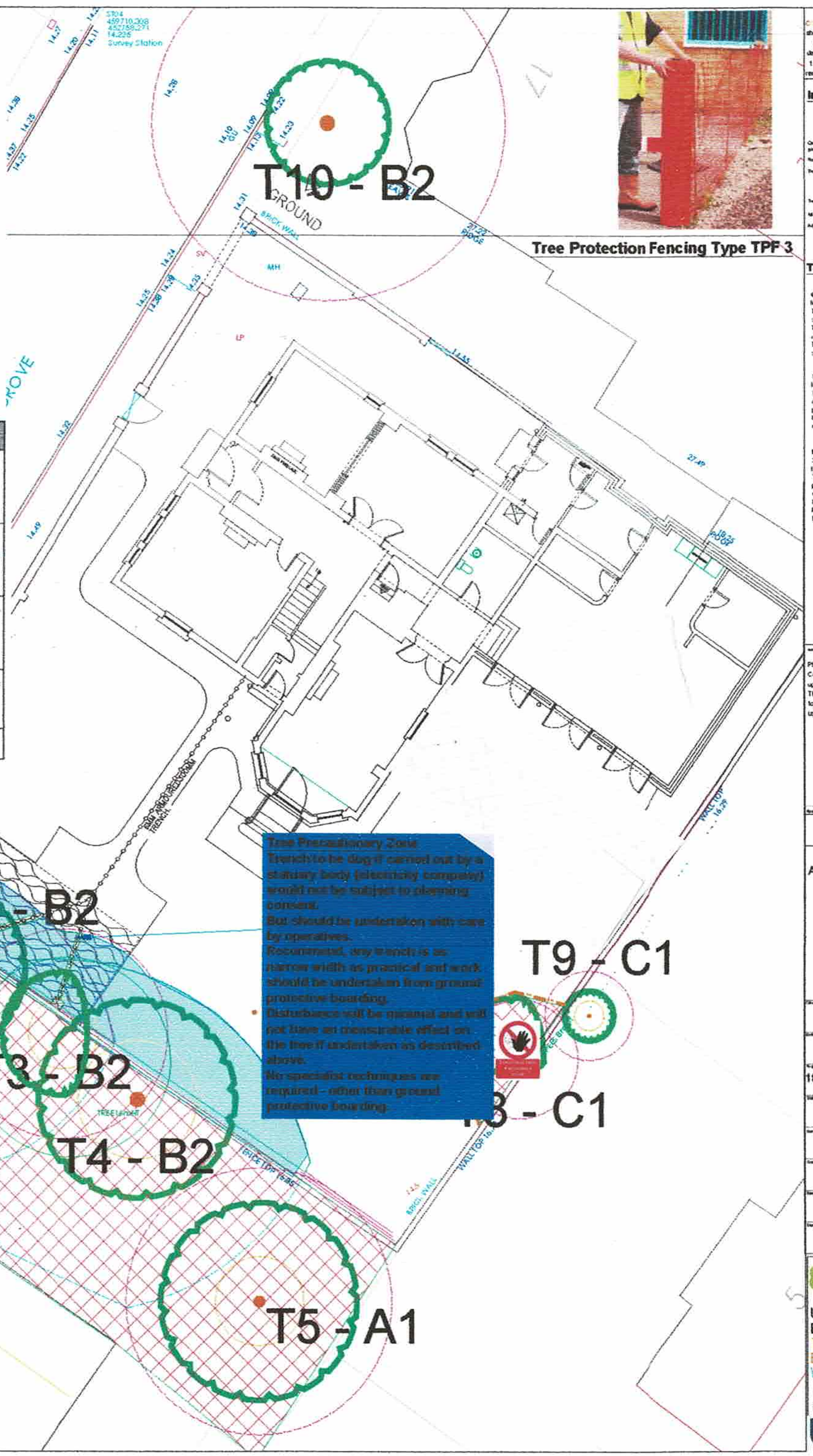
ALL WORKS AFFECTING TREES SHALL BE SUBJECT TO THE REQUIREMENTS OF BS5837:2012.

Sequence for tree Protection during Development.

Construction Phase	Key Elements to be Agreed	Phase Sign Off & Reporting
PHASE 1 PRE DEVELOPMENT STAGE	• Surface Protection Methods & Drainage • Tree Pruning to improve safety & vehicle access • Location & number of tree protection measures incl the creation of the Construction Exclusion Zones (CEZ) • Creation of non compacted SOIL materials storage, soil heaps, soil stores • Protection methods incl notional changes within the Tree Precautionary Zones (TPZ)	Record of meeting circulated to interested parties Protection methods to be SIGNED OFF by Project Arborist following inspection prior BEFORE COMMENCEMENT of the project Record site inspection circulated to interested parties
PHASE 2 DEVELOPMENT STAGE	Specific meetings / photographs at the beginning of high risk operations such as: Trenching Where design changes require access into the Construction Exclusion Zone Random site inspection • Equipment for groundworks • Ground protection boarding • Areas to adopt the project excavation • Preventing soil changes • Confirming access and material changes within the Tree Precautionary Zone • Confirming access and material changes within Construction Exclusion Zone	Record, including photographs, to be circulated to interested parties Protection methods to be SIGNED OFF by Project Arborist BEFORE COMMENCEMENT and summary report submitted
PHASE 3 FINAL DEVELOPMENT STAGE	Subject to forecast results by Project Arborist attend at the beginning of high risk operations subject to plans changing to include there. Landscape operatives briefed by project arboricultural • Sequence of Tree Protection removal • Areas of Cultivation & Soil Level changes • Methods of cultivation • Materials & storage	Record of meeting circulated to interested parties Landscaping to be SIGNED OFF by Project Arborist BEFORE COMMENCEMENT Record of site inspection circulated to interested parties
PHASE 4 POST DEVELOPMENT STAGE	Tree Health Assessment visits by Project Arboricultural to identify response of trees to site changes • The health state of the retained and new trees • Identify site modification or works to help improve or maintain tree health and safety	Record of site inspection circulated to interested parties

Table 2 - Tree Protection Fencing (TPF) types.

Protection Methods	Required	Phase & Schedule
	✗	TPF - TREE SEMI PROTECTION FENCING - Tree protection fencing shall be erected prior to any demolition, groundworks, construction or other activity commencing. Fencing shall be erected in accordance with the approved scheme and remain in place until all activity is finished. • To be installed before plant or vehicles enter the working area or area • To be installed where a High Shed level of contact the work zone is likely
	✗	TPF1 - TREE PROTECTION FENCING - Tree protection fencing shall be erected prior to any demolition, groundworks, construction or other activity commencing. Fencing shall be erected in accordance with the approved scheme and remain in place until all activity is finished. • Tree Protection Fencing (TPF1) installed to protect trees prior to any demolition or soil movement • Installed in High Risk Areas during Demolition and Build Phase
	✗	TPF2 - TREE PROTECTION FENCING - This is to be erected as a temporary barrier to protect areas designated for tree protection or restricting the Root Protection Area. This is to be used in place of Heras type fencing where it is not practical to use Heras type fencing. • Tree Protection Fencing (TPF2) To be installed before plant or vehicles enter the working area • Installed in Moderate Risk Areas
	✓	TPF3 TREE PROTECTION FENCING - This is to be erected as a temporary barrier to protect areas designated for tree protection or restricting the Root Protection Area. This is to be used in place of Heras type fencing where it is not practical to use Heras type fencing. Chestnut Pale fencing or Orange Extruded Plastic Netting • Tree Protection Fencing (TPF3) installed to protect trees prior to excavation or soil movement • Installed in Low Risk Areas.
SITE MONITORING - PROJECT ARBORICULTURIST	✓	• Assessment to be undertaken as outlined in the Site Supervision Schedule • Findings circulated to all interested parties throughout the active project.



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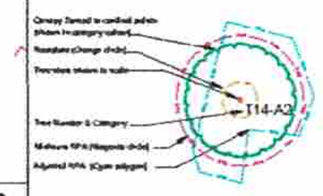
Individual Tree Symbols



Tree Protection Methods

Construction Exclusion Zone (CEZ)
Indicated by the red Net Hatching
There are NO-GO ZONES for site works, Storage and operatives
To be protected by appropriate Fencing and/or Ground protection
These areas shall be identified with signage

Tree Precautionary Zone - (TPZ)
Indicated by Blue shading
Tree root activity is likely in these areas and will need to be appropriately protected before the start of the work: Materials and methods need to limit excavation, root loss or damage to soil;

Low Risk Tree Protection Fencing Type 3 (TPF3)
Indicated by the orange line
This is to be erected as a visual barrier to protect areas designated for no or later construction. Consisting either shock fencing, post and rail fencing, Chestnut Pale fencing or Orange Extruded Plastic Netting

Plan is based upon the supplied topographical Survey Plan. Copies of this plan are available in CAD Formats .dwg & .dxf upon request.
The location of the trees was not included as part of the topographical survey and their positions have been estimated using satellite images.

Revision	Description
20/03/2023	Preliminary Issue

A

N

1:100

Client	Simon Mitchell Design
Site Address	Katie and Alan Downey
Address	18 St Peter's Grove, York,YO30 6AQ
Title	Arboricultural Method Statement
Drawing No	BA230256TPP
Status	P
Scale	1:100 @ A1
Date	22/03/2024
Drawn By	JE
Checked	SB
Approved	

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