Protective Fencing (Trees)

Protective fencing is to be erected prior to the commencement of any and all works on site and retained in place for the duration of the development.

Default Specification: To comprise of either 2.4m wooden site hoarding; or a 2.3m high scaffold framework comprising of vertical and horizontal framework, well braced to resist impacts, with uprights to be spaced at a maximum of 3.0m intervals and driven into the ground by a minimum of 600mm. On to this, standard anti-climb welded mesh panels are to be securely fixed to each other with at least two scaffold clamps and to the scaffold framework with wire.

Secondary Specification: To comprise of 2m tall welded mesh panels on rubber or concrete feet. Panels are to be joined together using a minimum of two anti-tamper couplers, installed so that they can only be removed from inside the fence. The panels should be supported on the inner side by stabilizer struts, which should be attached to a base plate and secured with ground pins.

All weather notices are to be attached at regular intervals on the weld mesh panels with words such as "Construction Exclusion Zone - KEEP OUT".

Tree Protection Area

KEEP OUT

Do **not** move this fence

(TOWN & COUNTRY PLANNING ACT 1990)
TREES ENCLOSED BY THIS FENCE ARE PROTECTED BY PLANNING CONDITIONS AND/OR. ARE THE SUBJECT 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

Arbtech Consulting Limited
Unit 3, Well House Barn, Chester Road, Chester, CH4 0DH
https://arbtech.co.uk - 01244 661170

Ground Protection

The existing hard surfacing within the RPA of retained trees provides passive protection against compaction to the underlying soil and therefore must be retained for the duration of the project. If removed, it shall be done so manually and under the direct supervision of the Project Arboriculturist; it must be replaced immediately with either the new hard surface treatment or with suitable ground protection, capable of withstanding the likely loading for the site.

New temporary ground protection should be capable of supporting any traffic entering or using the site without being distorted or causing compaction of underlying soil.

Note: The ground protection might comprise one of the following:

Pedestrian movements only: A single thickness of scaffold boards placed either on top of a driven scaffold frame, as to form a suspended walkway, or on top of a compression-resistant layer (e.g. 100mm depth of woodchip), laid onto a geotextile membrane;

Pedestrian-operated plant up to 2t (gross weight): Proprietary inter-linked ground protection boards placed on top of a compression-resistant layer(e.g.150mm depth of woodchip), laid onto a geotextile membrane;

Wheeled/Tracked traffic exceeding 2t (gross weight): An alternative system (e.g. proprietary system or pre-cast reinforced concrete slabs) to be designed by a suitably qualified person to an engineering specification designed in conjunction with arboricultural advice, to accommodate the likely loading to which it will be subjected.

In all cases, the objective of the ground boarding is to avoid compaction of the soil beneath, so that tree root function remains unimpaired.

Supervised Demolition

All demolition works situated either partially of completely within the RPAs of retained trees or in close proximity to their canopies are to be undertaken manually; unless other wise permitted and under the direct supervision of the Project Arboriculturist.

Hard surfacing:
The wearing course will be broken up using hand tools, such as a hand held pneumatic breaker, etc., If it is necessary to remove the sub base this is to be undertaken using hand tools such as a fork to loosen the material and removed using shovels and wheels barrows. In some situations and at the discretion of the Project Arboriculturist, it may be possibly to use an excavator combined with a hydraulic breaker and a suitably sized toothless grading bucket. If an excavator is to be used it must be situated outside of the RPAs, on top of the hard surfacing working away from the RPAs or from suitably constructed ground boarding. Which ever system is used there is to be **NO** disturbance of the soil beneath. If roots are found they are to be covered with damp hessian and a layer of either sharp sand, wood chip or top soil to prevent desiccation.

Structures: Where it is necessary for the foundations to be removed they are to only be removed where critical to the proposed development and to the minimum depth required. The foundations will be broken up using hand tools, such as a hand held pneumatic breaker, etc,. In some situations and at the discretion of the Project Arboriculturist, it may be possibly to use an excavator combined with a hydraulic breaker and a suitably sized toothless grading bucket. If an excavator is to be used it must be situated outside of the RPAs, on top of the hard surfacing working away from the RPAs or from suitably constructed ground protection. If it is likely that there will be any collapse of the soil within the rooting environment excavation is to be stopped immediately and the trench is to be shored up to prevent loss of the rooting environment. Which ever system is used there is to be **NO** disturbance of the soil on the tree side of the foundations. If roots are found they are to be covered with damp hessian and a layer of either sharp sand, wood chip or top soil to prevent desiccation.

Where an excavator or any other machinery is to be used within RPAs or beneath canopies the Project Arboriculturist will clearly instruct the operator about what they want and expect to happen prior to any works may commence.

'No-dig' Surfacing

Multi-dimensional confinement system: Prior to the installation of the new 'no-dig' surfacing, existing vegetation may be removed either with hand tools or sprayed with an approved non-residual herbicide such as 'Glyphosate'. Any small hollows on the surface may be filled with clean sharp sand (not builders sand) to a maximum depth of 150mm.

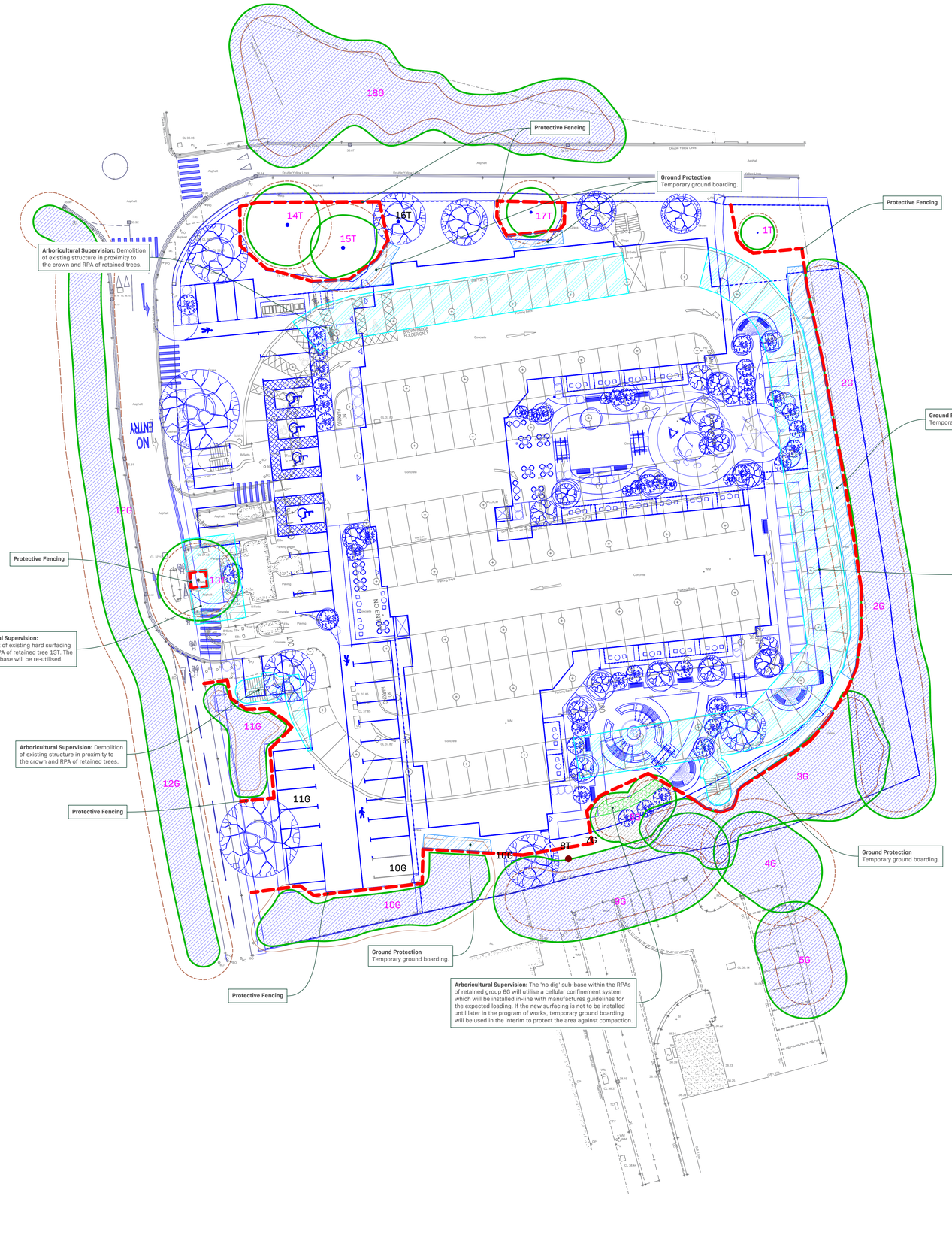
The new hard surfacing will utilise a 'No-dig' sub-base such as a a proprietary cellular confinement system (GeoWeb or similar) laid over a bi-axel geo-grid (tensar TriAx or similar) so that it can be constructed entirely above the existing soil level. The 'GeoWeb' is to be back filled by hand with a no-fines aggregate of 20mm - 30mm. The area of 'GeoWeb' will be covered with a permeable geotextile fabric and the finished wearing course laid on top. Edge supports of an appropriate size and strength are to be set above ground level and secured with haunching or steel pins driven into the ground. the outer edge of the supports may be banked up with clean top soil.

Note: The use of a multi-dimensional confinement system will affect the finished level of the hard surfacing by raising the levels and needs to be considered when designing foundations and setting the finished floor levels of adjacent buildings.

Arboricultural Method Statement

All tree works must be undertaken in accordance with British Standards. Please refer to the Tree Schedule, Arboricultural Method Statement & Tree Protection Plan, for full details of all surveyed trees and how the development maybe implemented without detriment to retained trees.

Indicative only


18G
Protective Fencing
Ground Protection
Temporary ground boarding.
Protective Fencing
14T
15T
16T
17T
1T
Arboricultural Supervision: Demolition of existing structure in proximity to the crown and RPA of retained trees.
2G
Ground Protection
Temporary ground boarding.
Arboricultural Supervision: Demolition of existing structure in proximity to the crown and RPA of retained trees.
12G
Protective Fencing
13T
Arboricultural Supervision: Replacement of existing hard surfacing within the RPA of retained tree 13T. The existing sub-base will be re-utilised.
11G
Arboricultural Supervision: Demolition of existing structure in proximity to the crown and RPA of retained trees.
12G
Protective Fencing
11G
10G
Ground Protection
Temporary ground boarding.
Protective Fencing
8T
7G
10G
9G
4G
5G
3G
2G
Ground Protection
Temporary ground boarding.
Arboricultural Supervision: The 'no dig' sub-base within the RPAs of retained group 8G will utilise a cellular confinement system which will be installed in-line with manufactures guidelines for the expected loading. If the new surfacing is not to be installed until later in the program of works, temporary ground boarding will be used in the interim to protect the area against compaction.
NO ENTRY
SMOKING SHELTER
Protective Fencing
Arboricultural Supervision: Demolition of existing structure in proximity to the crown and RPA of retained trees.
Protective Fencing
Protective Fencing
Asphalt
Concrete
Paving
Parking Bays
Double Yellow Lines
Yellow Lines
Kerb
Wall
Fence
Hedge
Tree
Bollard
Lamp Post
Manhole
Gully
Drain
Steps
Ramp
Building
Shed
Garage
Greenhouse
Pergola
Gate
Barrier
Sign
Bench
Planter
Raised Bed
Pond
Fountain
Statue
Sculpture
Flagpole
Bin
Cycle Rack
Fire Hydrant
Water Tap
Electric Box
Gas Valve
Telecom Box
Utility Cover
Inspection Chamber
Soil Vent Pipe
Rainwater Pipe
Downpipe
Guttering
Roof
Chimney
Skylight
Window
Door
Step
Threshold
Path
Kerb
Edging
Tactile Paving
Dropped Kerb
Crossing
Footpath
Footway
Carriageway
Road
Junction
Roundabout
Traffic Island
Speed Bump
Traffic Light
Pedestrian Crossing
Zebra Crossing
Pelican Crossing
Puffin Crossing
Toucan Crossing
Cycle Lane
Bus Lane
Bus Stop
Taxi Rank
Disabled Bay
Loading Bay
Permit Holders Only
Pay and Display
Limited Waiting
No Waiting
No Loading
No Parking
No Entry
One Way
Give Way
Stop
Mini Roundabout
Speed Limit
Weight Limit
Height Limit
Width Limit
Clearway
Restricted Zone
Controlled Zone
Residents Parking
Visitor Parking
Permit Parking
Pay Parking
Short Stay
Long Stay
Overnight
Weekend
Holiday
Emergency
Police
Ambulance
Fire
Hospital
Ambulance Station
Fire Station
Police Station
Hospital
Ambulance Station
Fire Station
Police Station
Hospital
Ambulance Station
Fire Station
Police Station