



**Tree Protection Fencing - Standards**

Fencing shall consist of min. 1.8m high panels, chainlink with galvanised posts, or similar material allowing sunshine and wind to filter through. To minimise root disturbance, fence footings shall be concrete blocks, or similar, that sit on the surface and are not installed in the ground. The fencing shall not be moved, even temporarily, during construction and under no circumstances shall materials be stored under the tree canopies. The landscape architect or horticulturalist should be consulted prior to any proposed alteration to the protection fencing. Refer BS 5837 Code of Practice for Trees in Relation to Construction for best practice standards.

**Tree Protection Fencing - Construction Notes**

- 1) The fencing shall be maintained in good and effective condition for the duration of construction activities.
- 2) The following measures shall also be adhered to:
  - a) Materials are never to be stored within the canopy of the tree;
  - b) No oil, tar, bitumen, cement or other deleterious material shall come in contact with the ground within the root zone;
  - c) Trees to be retained shall neither be used as anchorages or support mechanisms for equipment or services nor utilised in any other construction activities;
  - d) No notices, telephone cables or other services should be attached to any part of the tree;
  - e) Soil levels are to be maintained as existing within the protection fencing. The majority of roots lie within the upper 500mm of the soil. Any alteration to soil levels within the root zone must be agreed with the landscape architect prior to excavation.

**Landscape Programme of Implementation**

1. Install tree protection fencing to western boundary and central hedgerow, prior to commencement of construction.
2. Remove topsoil and stockpile for later use. Store in an area safe from vehicular traffic. Do not drive vehicles or store machinery or materials on reserved soil.
3. Re-grade central attenuation basin early in the project and seed with native wildflower seed; to enable establishment of vegetation prior to intensification of use.
4. Upon completion of blocks of buildings, install plant material within first available planting season (Nov-Mar).
5. Prior to the commencement of site works, mitigate potential sediment migration by installing a filter fence or other local authority approved sediment control system, adjacent to the west boundary stream.
6. Upon completion of vehicular area and kerbs, install remaining landscape elements including play areas, picnic areas, trees and associated shrubs. Stake all trees and top all interior planting beds with mulch.
7. Fine grade disturbed fringe areas and seed with Irish grass seed once areas are available and free from future construction traffic or storage.
8. Implement a programme of aftercare for a minimum of 12 months after project completion and ensure that any dead plants or trees are replaced within the nearest planting season.
9. Ensure a maintenance regime is in place, regularly tending to planting beds and new tree installation, to optimise health and longevity.

- Woodland Enhancement Planting includes:**
- 20 no. Aln glu (60/90)
  - 20 no. Cor ave (60/90)
  - 25 no. Cra mon (60/90)
  - 20 no. Ile aqu (30/40)
  - 25 no. Pru avi (60/90)
  - 50 no. Pru spi (60/90)
  - 10 no. Que rob (60/90)
  - 50 no. Sal aur (60/120)
  - 50 no. Sal cap (60/120)
  - 25 no. Vib opu (60/90)

All trees along the western and northern boundaries to be retained as-is (existing trees indicated by green outline)

**AMENITY no. 1 - Streamside amenity path, 2.0m wide x 420 lin.m. at western boundary; cast-in-situ conc.**

**AMENITY no. 2 - Central Amenity Green** designed as a large, level lawn for informal use and overlooking biodiversity corridor, 4 no. seat benches and 1.2m protection fence

**AMENITY no. 3 - Children's Swings and Picnic Area** a 300 sq.m. space designed as an active family area; 3 no. swings for various ages (toddler, primary school, teenagers/adults); 4 no. picnic tables

- Woodland Enhancement Planting includes:**
- 10 no. Aln glu (60/90)
  - 20 no. Bet pub (150/200)
  - 10 no. Cor ave (60/90)
  - 20 no. Ile aqu (30/40)
  - 10 no. Mal syl (100/125)
  - 5 no. Pru avi (60/90)
  - 10 no. Que rob (60/90)
  - 20 no. Sal aur (60/120)
  - 50 no. Sal cap (60/120)
  - 25 no. Vib opu (60/90)

**Tree Planting Schedule (325 no. semi-mature and specimen trees)**

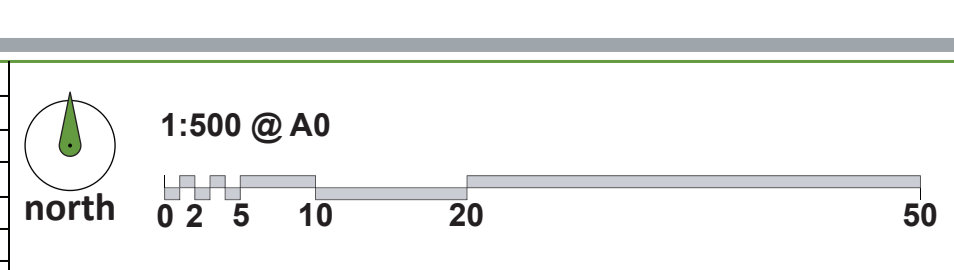
Abbreviation	No. of Trees	Tree Description
*AG	3	Alnus glutinosa (Alder, 10-12cm girth BareRoot)
*AC1	4	Acer campestre 'Elsrijk' (Field Maple, 16-18cm girth RootBall)
*AC2	18	Acer campestre 'Elsrijk' (Field Maple, 12-14cm girth BR)
*AP1	6	Acer platanoides 'Emerald Queen' (Norway Maple, 16-18cm girth BR)
*AP2	12	Acer platanoides 'Emerald Queen' (Norway Maple, 12-14cm girth BR)
*AB	6	Acer rubrum 'October Glory' (Red Maple, 12-14cm girth BR)
*BC	17	Betula costata (Golden Birch, 10-12cm girth BR)
*BP	27	Betula pubescens (Downy Birch, 14-16cm girth BR)
*CB	11	Carpinus betulus 'Fastigiata' (Fatsigate Hornbeam, 12-14cm girth BR)
*CJ	2	Cercidiphyllum japonicum (Katsura Tree, 16-18cm BR)
*CA	3	Corylus avellana (Hazel, 300/350cm Ht., multi-stem BR)
*FS	7	Fagus sylvatica (Beech, 18-20cm girth BR)
*LS	3	Liquidambar styraciflua (Sweet Gum, 16-18cm girth, RB)
*MD	8	Malus domestica (Mixed variety Apple trees, MM106 rootstock)
*MS	16	Malus 'Evereste' (Flowering Crabapple, 10-12cm girth BR)
*MK	1	Magnolia kobus (Magnolia, 14-16cm girth BR)
*NA	1	Nothofagus antarctica (Arctic Beech, 450/900cm Ht. multi-stem)
*PS	3	Pinus sylvestris (Scots Pine, 150/175cm Ht. RB)
*PA	17	Prunus avium 'Plena' (Flowering Cherry, 10-12cm girth BR)
*PY	7	Prunus yedoensis (Yoshino Cherry, 14-16cm girth BR)
*QI	2	Quercus ilex (Evergreen Holm Oak, 175/200cm Ht. RB)
*QP	2	Quercus palustris (Pin Oak, 14-16cm girth BR)
*QR1	5	Quercus robur (Pedunculate Oak, 20-25cm girth specimen RB)
*QR2	18	Quercus robur (Pedunculate Oak, 12-14cm girth BR)
*SB	1	Salix babylonica (Weeping Willow, 18-20cm girth BR)
*SC	75	Salix caprea (Goat Willow, 200/250cm Ht. feathered transplant)
*SA	17	Sorbus aucuparia (Rowan, 10-12cm girth BR)
*TCG	14	Tilia cordata 'Greenspire' (Small-Leaved Lime, 12-14cm girth BR)
*TCR	19	Tilia cordata 'Roelov' (Avenue Lime, 10 no. 14-16cm RB)

Green dot (\*) denotes small trees with a mature canopy less than 5m dia. after 25 yrs.  
Brown dot (\*) denotes medium trees with a mature canopy of 5-8m dia. after 25 yrs.  
Blue dot (\*) denotes larger canopy trees, but are typically slower growing.

**Woodland Planting Schedule (625 no. bare-root whips and transplants)**

No. of Plants	Planting Description
40	Alnus glutinosa (Alder, 200/250cm 2+2 BR)
20	Betula pubescens (Downy Birch, 150/200cm 2+1 BR)
35	Corylus avellana (Hazel, 125/150cm, 3yr Feathered Transplants)
25	Crataegus monogyna (Hawthorn, 60/90cm 1+1 BR)
50	Euonymus europaeus (Spindle, 40/60cm 1+1 BR)
10	Ilex aquifolium (Holly, 30/40cm Ht. RootBall)
15	Malus sylvestris (Flowering Crabapple, 100/125 1+2 BR)
10	Populus tremula (Quaking Poplar, 10-12cm girth, BR)
20	Prunus avium (Wild Cherry, 125/150cm 2+2 BR)
50	Prunus spinosa (Blackthorn, 60/90 1+1 BR)
25	Quercus robur (Pedunculate Oak, 200 no. 120/150 1+2 BR)
75	Salix aurita (Eared Willow, 60/120 0+1 BR)
100	Salix caprea (Goat Willow, 60/120 0+1 BR)
50	Sambucus nigra (Elder, 60/90 0+1 BR)
50	Viburnum opulus (Guelder Rose, 40/60 1+1 BR)

C	13/10/21	MW	Issue for Stage 3 SHD Planning Application
B	25/06/21	MW	Issue for team review
A	14/11/20	MW	Issue for Stage 2 SHD Pre-Consultation
REV	DATE	DRAWN	DESCRIPTION



**Notes:**

1. For site layout, R617 roadway improvements and site lighting refer Architecture and Engineering drawings.
2. For species and heights of existing trees, refer dwg. L102. Canopies shown on plan respond to actual canopy size.
3. With the transport and planting embargo on native Ash trees (Hymenosyphus fraxineus disease), none can be planted at this time (this note is specific). Should this status change, the quantity of non-native acclimatised species will be reduced so that Ash constitutes 7% of the overall planting within the scheme.

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job no. 2120 Drawn by MW Scale 1:500 @ A0 Date 13.OCT.2021 Status SHD PLANNING Revision C

job title: MIXED-USE DEVELOPMENT AT CLOHRHOE, TOWER, CORK  
Client: CLOHRHOE DEVELOPMENT LTD.

Drawing Set: LANDSCAPE DEVELOPMENT PROPOSALS  
Drawing Title: LANDSCAPE MASTERPLAN  
Drawing No: L108