ENVIRONMENTAL PROTECTION

a. Chemical Use: to prevent any cumulative effects within the animal food chain the use of herbicides, pesticides, fungicides or other hazardous chemicals is to be avoided. Hand weeding, mulching and biological controls such as nematodes should be used to control pests in the first instance. Pesticide use such as insecticides, slug pellets and fungicides are to be kept to a minimum;

b. implement good horticultural practice within the planting scheme, including: do not use peat or products containing peat, use non-residual pesticides/herbicides only;

c. ensure all scrub vegetation is removed outside of the British bird breeding season. (March to August inclusive)

TREE PROTECTION NOTES

ALL trees including those outside of the developable area, must be appropriately protected from damage during the clearance and construction phase of works to prevent soil structure damage.

The following recommendations must be implemented:

a. Trees to be protected in accordance with BS5837:2012 (Trees in relation to construction – recommendations);

b. Fencing should be implemented to the tree canopies (as a minimum) to protect sufficient roots for survival and preserve their integrity until the completion of construction works (i.e. no vehicular access, storage of materials or potential contaminates within the protective area).

PLANTING SPECIFICATION

**1)** Stock Handling:
All planting to be to BS4428 Code of Practice for General Landscape Operations.
All plants protected from wind exposure.
All plants to be soaked in water for several hours & well watered in.
No planting to be carried out during poor weather conditions, i.e. when ground is frozen, waterlogged, or during droughts, hot sunshine or persistent dry, cold winds.
Plant material: to HTA National Plant Specification.
All Planting to be of regional provenance wherever possible and from a local supplier (within 50 mile radius of site).

**2)** Subsoil: 300mm to BS3882.

**3)** Topsoil: General Purpose Grade to BS 3882:2015. Layers not exceeding 150mm. Set 30mm above adjacent hard surfaces to allow for settlement

**4)** Topsoil depths required after settlement:
Planting areas: 450mm minimum depth topsoil;
Grass areas (ie all front and rear gardens): 150mm depth topsoil

**5)** Soil preparation works prior to planting:
a) Cultivation: loosen, aerate and break up soil into particles 2-8mm to depth of 150mm.
b) Soil conditioner: 75mm well-rotted manure or PAS100 compost prior. Cultivate to a depth of 300mm.
c) Soil within RPA of existing trees, hedges and shrubs to remain uncultivated

**6)** Mulch: All planting areas and tree pits, to receive 100mm mulch: Melcourt Industries Ornamental bark mulch or similar approved coarse grade bark. Tree pits to be kept clear of planting to a min dia 1000mm (500mm ra). Finished level of mulch: 30mm below adjacent grassed areas.

**7)** Climber support wires
- Climbing plants shall have climber supports on wall: Self clinging species to have heavy duty plastic covered wire for 1800mm agl, fixed vertically to the wall using 3 no. galvanised vine eyes. Leaders shall be attached to the wire with plastic covered rings or twists.
- Climbers to be planted 150mm clear of base of wall or fence.

**8)** TREE PLANTING - to BS 8545:2014; sections 10 & 11; Annexes F & G.2
i) Tree pits:
Trees to be planted in excavated pits with a minimum dimension of 900x900x625mm.
All - bases of pits to be broken up to a depth of at least 250mm.
Bare root transplant size trees and shrubs to be planted in hole cut into centre of previously dug pits of suffi cient size for the roots to fully spread out.

ii) Backfill: Tree pits to be backfilled with 85% approved topsoil, including any clean topsoil excavated from pit, 15% tree planting compost e.g. Melcourt 'Topgrow Tree & Shrub Planting Compost' and 100g Sierrablen Flora 8-9 Months (11-21-9+6mgo) fertiliser.

iii) Irrigation: All trees to have dished profile to soil surface. Extra heavy standard trees and above to have irrigation pipe installed in tree pit at planting.

iv) Tree pits to be kept clear of planting or grass to a min dia 1000mm and mulched to 75mm minimum.

v) Guying/Staking: Selected standard trees to be supported by single stake and adjustable tree tie. Standard trees and above to be double staked with crossbar and adjustable tree tie/spacer.

**9)** Woodland and Scrub Mixed Species Planting:
Scrub planting to be at 1.5m centres (0.56/m2) min, in groups of up to 5 nr of the same species.
Plants to be distributed evenly through the designated planting area into existing soil/grass.
Bare root trees are to be planted into a notch or hole cut into the centre of a previously dug pit of suffi cient size for the roots of the plants to fully spread out.
Feathered, maiden or light standard trees to be planted into excavated pits 700 x 700 x 600mm with base of the pit broken up to 200mm depth.
Standard size trees will be planted into excavated pits 1 x 1m x 600mm deep with base of the pit broken up to 200mm.
Backfilling shall finish to existing contours and allow for settlement. Backfill shall be 80% clean topsoil mixed with 20% tree planting compost and slow release fertiliser, Enmag or similar approved.

**10)** Shelters/rabbit guards. Whip, transplant and shrubs to be protected by shelters 0.75m high supported by a stake and adjustable tie. All shelters are to be suitable for the plant stock e.g. evergreen species to be protected with a plastic mesh guard such as Tubex 'Treeguard Mesh for Shrubs' 150-180mm dia supported by a timber stake.

**11)** Staking:
Short single staking: feathered, maiden & light standard trees.
Short double staking: selected standard trees.
Long single staking: standard trees.
Long double staking: Heavy standard trees & larger.
Stakes: Softwood, peeled chestnut, larch or oak, straight, free from projections and large or edge knots and with pointed lower end. Preservative treatment: Not required. Nails: To BS 1202-1, galvanized, minimum 25 mm long and with 10 mm diameter heads. Minimum stake sizes: 65 mm diameter.
Method: Drive stakes vertically at least 300 mm into bottom of pit before planting. Consolidate material around stake during backfilling. Height of stakes: Cut off just below lowest branch of tree. Tying:.1 x butyl strap nailed to post and looped around stem.

**12)** Irrigation: Standards trees shall have a 60, 75 or 80mm dia perforated flexible irrigation pipe inserted closely around the rootball to ensure water is evenly distributed to the roots, to be installed during backfilling according to manufacturers recommendations.

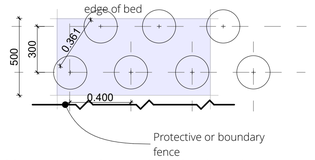
**13)** Mulch: All planting areas, climbing plants and both existing / new tree pits, to receive 75mm mulch: British conifer bark mulch with an even particle size distribution of 10-40mm and less than 5% wood content, with minimal fi nes. The pH should be between 4.5-5.5. mulch should be free fl owing, pest free, weed free and disease free.

**14)** Turfi ng operations
- TURF: to TGA quality standards and supplied by a TGA member. Turf to be dense, of uniform colour, free from broadleaved weeds and not eff ected by pest or disease.
- TURF OPERATIONS: Spring or autumn, 24hours of delivery. Turfi ng to conform to BS 3969, installed in suitable weather conditions. Around newly planted trees: neatly cut away to a diameter of 1m around individual trees. Leave soil exposed (to be mulched to 75mm).

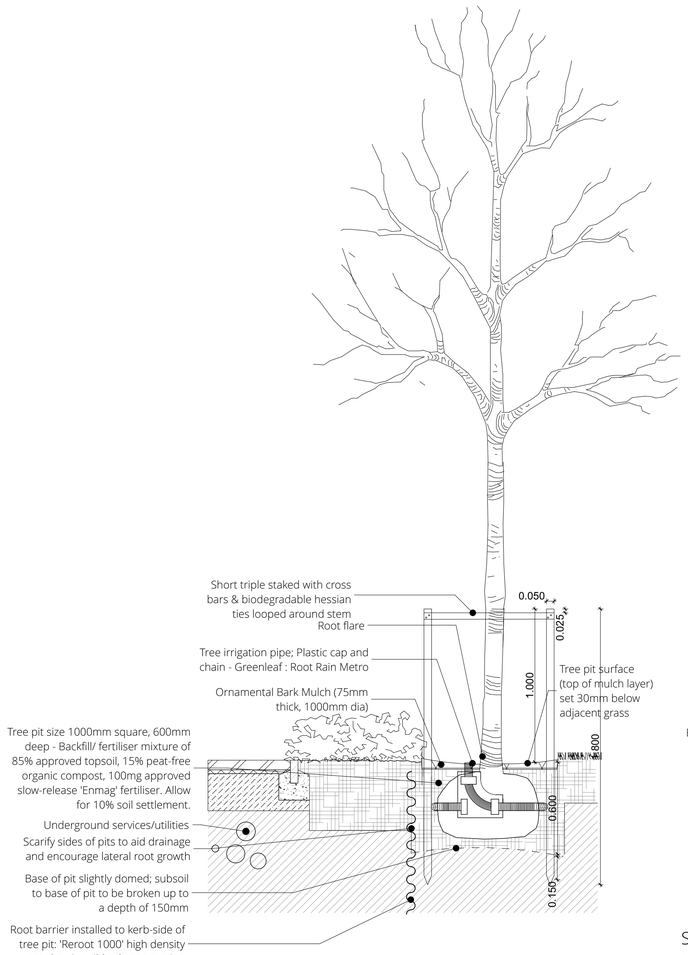
**15)** Grass seed operations
- Seed: Germinal Amenity seed mix 'UberSustain' for all seeded areas, sown in accordance with recommendations at 35g/m2

MAINTENANCE OF SCRUB PLANTING:
- Objective: to create dense, healthy semi-natural vegetation;
- Inspection: March to September, annually;
- Removal/adjustment of stakes and ties: as necessary following inspection;
- Removal of debris, branches, litter, etc: as necessary;
- Maintain a weed-free surface 500mm radius below each plant using glyphosate (ie Round-up): April to August during windless weather, three times per annum until canopies close;
- Bark mulch shall be maintained at 75mm depth
- Strim off weed growth and remove arisings three times per annum . Avoid damage to tree and shrub stems from rotary strimmer.
Staking: Check condition of stakes, ties, guys and guards. Replace broken or missing items.
- Adjust if necessary to allow for growth and prevent rubbing of bark. Cut back any damaged bark. Tie loose climbers back to support.
- At year 5 or when no longer required, remove spiral guards and ties.

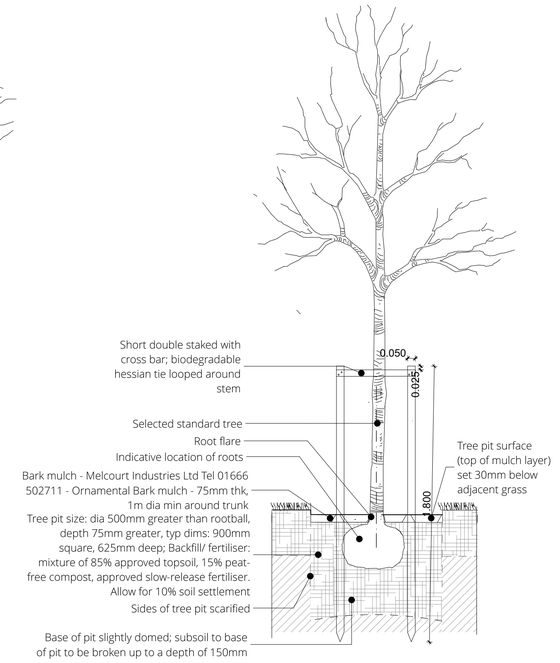
MAINTENANCE - ALL PLANTING EXCEPT SCRUB:
- Communal areas to be maintained by the contractor will be for 12 months following Practical Completion to ensure good primary establishment of planting and grass.
- Works to include operations as required to ensure successful establishment of planting, including but not limited to:
  · fertiliser,
  · weeding,
  · top up of bark mulch to 75mm deep,
  · pruning, re-fi rming.
- Any plant defects at during the maintenance period to be replaced by the contractor at the contractor's expense.
- Watering: All plant material to receive enough water to ensure healthy establishment. Watering to be undertaken as necessary to ensure that trees, shrubs hedges and grass remain healthy and growing. During the fi rst year of establishment, grass, trees and shrubs should be watered twice per week during the fi rst growing season (April-September) unless rainfall has exceeded 25mm in the last seven days.




Hedge planting - plant in double staggered row
1:20




Heavy/Extra Heavy standard tree planting in soft
Typical Tree Pit Details 1:20




Selected Standard Tree Planting in Soft
1:20

| Rev. | Date | Description | Drwn. |
|---|---|---|---|
| B | 21/08/23 | Text amendment - tree pit | EK |
| A | 26/06/23 | Tree pit detail amendment: root barrier added | EK |

Note :
Do not scale off this drawing. Do not rely on this drawing for purposes other than the recorded 'Status'. Constructors must be familiar with the client's building asbestos register ahead of facilitating any work contained on this drawing.
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North

Scale

Office Liverpool Nottingham Newcastle Preston
Nottingham
Address
53 Forest Road East
Post Code
NG1 4HW
Tel
0115 989 7969
Website
www.hlpdesign.com

Drawing Title
Planting Details
Project
Coast Hill, Crich
Client
Futures Housing Group
Scales @ A1 | Date | Drawn | Check
1:20 | 07/02/23 | EK | CS
Job Number | Drg. No - Revision | Status
N1414 | 129_B | [ 3 ] - PLANNING

Halsall Lloyd Partnership
ARCHITECTS & DESIGNERS