

PLANTING SPECIFICATION

General Guidance

All plant handling to be in accordance with the HTA Handling and establishing landscape plants Part I, Part I and Part II (obtainable from the Horticultural Trades Association) and the CPSE publication 'Plant Handling' and all planting to conform to National Planting Specification Guidelines.

The individual setting-out of the plants on site shall be the responsibility of the contractor and should follow closely the locations shown on the detailed planting proposal drawings supplied by the landscape architect. Contractor to ensure that plants are equally spaced within individual planting groups.

Contractor to ensure that smaller plants are located to the front of plant species groups as shown on detailed planting plans.

Contractor shall maintain existing levels around the base of existing trees and shall undertake all planting works occurring within tree protection areas (TPA) in accordance with BS5832:2012. Contractor shall not remove or relocate any tree protection fence prior to consent of the client.

Contractor to check the locations of all underground services, existing and proposed, prior to the excavation of any tree pits or shrub beds and identify any potential conflicts to the client / landscape architect.

All airings shall be kept the same size and the contractor shall at all times, remove the site free from rubbish and debris.

For the duration of the works the contractor shall keep the site free from flytious weeds as listed in the Weeds Act 1959.

All plants should be supplied at the same size and of the same species as specified in the planting schedules on the landscape proposals plan. Any proposed replacement species or deviation from the planting schedules should be highlighted to and agreed with the client prior to installation.

All plants shall be hardened-off at the Contractor's own nursery or at the source prior to planting out.

All field grown and rootballed trees must have been transplanted or undercult in the nursery no less than 18 months prior to supply.

The Contractor shall carry out the while soil and weather conditions are suitable. Planting is to be taken place during periods of frost or strong winds.

The contractor is to ensure that adequate watering and weed control is provided at the time of planting.

Any topsoil retained on site in stockpiles for use in planting works is to be stored in accordance with the DEFRA publication: 'Code of practice for the sustainable use of soils on construction sites'

Do not use peat or peat based products.

Prior to planting, planting areas shall be cleared of grass and weed growth physically and/or chemically with a proprietary translocated herbicide and a period of time shall be allowed to elapse as recommended by the manufacturer before commencement of soil preparation for planting.

All plants are to be watered thoroughly before planting stage to ensure rootballs are thoroughly soaked prior to final backfilling.

Tree Planting
Generally plant trees in pits with minimum dimensions of:-

- 1000 x 1000 x 700-800mm deep for trees sited in planted areas including grass/shrub areas and rear gardens.

Backfill the pits in layers as specified below (from bottom up):-

- Drainage layer
- 200mm layer of compacted inert free draining gravel or pea shingle, wrapped in geo-textile membrane
- 100mm layer of washed medium-course sand to act as binding layer between geotextile and soil.

Topsoil layer

- 400-500mm layer of retained site-sourced topsoil (free from weeds) or imported topsoil (Multi-purpose grade to BS3882:2015; sandy loam); depth dependent on size of rootball.

Depth of topsoil should only be as deep as the rootball of proposed tree to a max. depth of 400-500mm. Should the rootball be larger i.e. 800mm height, then the pit should be increased in depth to suit, but with the difference in depth from the 400-500mm topsoil layer and the drainage layer made up of quality imported free-draining subsoil (to BS8860:2013) to avoid topsoil compaction at depths of greater than 500mm.

Likewise, for smaller trees i.e. feathered trees, with more limited rootballs bare root, the depth of topsoil can be reduced to reflect the surrounding topsoil depths or to a max. topsoil depth of 300mm, with a further layer of site-sourced or imported subsoil (to BS8860:2013) below to create a total depth of growth medium of between 400-500mm i.e. 150-200mm layer of subsoil. Drainage layer should remain as above.

As stated above, the min. pit size for trees planted in newly created planting areas should be 1m x 1m, however when planting is occurring in clean, undisturbed ground, pits should be dug to approx. 200mm greater than the rootball to limit distribution of surrounding soil structure.

Break up bottom of tree pit to a depth of 200mm and ensure ground is free-draining. Loosen edges of tree pit at time of planting by hand, using a fork to ensure good drainage. Pits should be excavated no greater than 48hrs prior to planting and dewatered as required.

Incorporate a soil conditioner/amendment in the form of peat-free general-purpose shrub compost or well rotted mushroom compost or 'Roommaster' by Greenleaf Ltd (1423 332100) into backfilled topsoil material at the rate of min. 40L per pit.

Incorporate soil improver 'Teamwork Actor' by Greenleaf Ltd (1423 332100) at a rate of 1kg per pit, mixed thoroughly into backfilled topsoil.

Backfill topsoil mix in layers of 150mm, firming at each layer and loosening the pit sides to aid drainage. The surface level of the pit should be 50mm above the surrounding ground.

Trees shall be planted in the centre of the excavated pits.

Trees in soil planted areas to be dressed with a minimum 75mm mulch layer, consisting of pine bark fines, particle size 15-50mm to a min. diameter of 100-1200mm where appropriate.

Semi-mature trees shall be secured by use of a proprietary underground girdling system, incorporating

Extra-heavy and heavy standard trees shall be staked and supported with a low, double stake consisting of 20m, 75mm diameter x min. 2000mm length, rounded timber posts driven into the ground, 600mm above ground level and fixed to the tree by a proprietary rubber tree tie.

Standard trees shall be staked and supported with a low, single stake consisting of 10m, 75mm diameter x min. 2000mm length, rounded timber post driven into the ground at 45 degree angle to approx. 450mm above ground level and fixed to the tree by a proprietary rubber tree tie.

Trees shall be installed with proprietary flexible perforated irrigation/and/or pipe with integral cap. Pipe to be installed encircling equally around rootball to the full depth of planting pit, with the final cap section installed just above ground level and sealed securely in place to the adjacent timber stake.

Root Barrier Membranes
When trees are proposed in close proximity to hard paved areas or proposed service runs, a root barrier membrane is to be installed as prescribed below.

For all proposed trees carried in a location within 3m of an adjacent hard standing/pavement or carriageway both the a) proprietary root barrier membrane will be installed to protect the hard standing and any underground services located beneath from future damage by tree roots.

Root barrier membrane(s) to be installed on the tree side along the back edge of the kerb / edging restraint to the adjacent hard standing and are to extend a minimum 3m in each direction from a point taken perpendicular from the tree trunk to the kerb/edging face.

Root barrier membranes are to extend to a depth as outlined below:-

- For trees adjacent to hard standings (only (no underground services)) install 'Rootcut 300' by GreenBlue Urban (1424 717787) or equal and approved, ribbed root barrier membrane, to a depth of 300mm, the facing tree, joints fixed with jointing tape, install 10mm above final surface level of soft landscaping.
- For trees adjacent to hard standings incorporating underground services, install the following dependent on the depth of underground services:
 - For services 450mm deep
 - o 'Rootcut 600' by GreenBlue Urban (1424 717787) or equal and approved, ribbed root barrier membrane, to a depth of 600mm, the facing tree, joints fixed with jointing tape, install 10mm above final surface level of soft landscaping.
 - For services deeper than 800mm
 - o 'Rootcut 2000' by GreenBlue Urban (1424 717787) or equal and approved, ribbed root barrier membrane, to a depth of 2000mm, the facing tree, joints fixed with jointing tape, install 10mm above final surface level of soft landscaping.

For locations where a hard standing with or without underground services exists on both sides of the tree e.g. grass verge, then a root barrier is to be installed against both kerbs / edging faces.

For trees located within hard surfaces themselves i.e. surrounded by hard paved surfaces, install 'Root Director' by GreenBlue Urban (1424 717787) or equal and approved, min. 100x400, 1400mm x 1400mm x 450mm, plastic root director with integral ribs.

Ornamental Shrub Planting
Plant shrubs and groundcover into pre-prepared planting beds consisting of topsoil to a depth of no greater than 400mm, overlying clean, free-draining subsoil. Topsoil to be either: existing retained site sourced topsoil (free from weeds) or imported topsoil (Multi-purpose grade to BS3882:2015; sandy loam); or a combination of the two as necessary.

Subsoil layer to be fully broken-up to ensure adequate decomposition and alleviate free-drainage. For light and non-cohesive subsoils, when ground conditions are reasonably dry, broken thoroughly to a depth of 300mm (400mm for stiff clay / concrete soils). Remove all stones and debris greater than 50mm, including roots and tufts of grass. Top 50mm of subsoil to be reduced to a medium till substrate for final shaping using a grading blade.

When applicable the use of a small tractor mounted single line ripper to decompost subsoil layer sufficiently.

Incorporate a soil conditioner/amendment in the form of peat free general-purpose shrub compost or well rotted mushroom compost along planting trench in a 50mm layer at the rate of 300g per m², and incorporate to a depth of 225mm.

All shrub areas to be dressed with a minimum 75mm mulch layer, consisting of medium chipped tree bark, composted for 2-4 weeks, particle size 15-50mm, laid directly onto weed suppressant membrane.

The contractor shall take the necessary precautions to ensure all shrub areas are protected throughout the establishment period by temporary fencing.

Ornamental Hedge Planting (incl. single species narrow hedges)
Plant hedges into pre-prepared planting trenches. 500-600mm wide for double rows. Planting strips to consist of topsoil to a depth of 350-400mm, mixed with soil conditioner as specified below.

Topsoil to be either: existing retained site-sourced topsoil (free from weeds) or imported topsoil (Multi-purpose grade to BS3882:2015; sandy loam) or a combination of the two as necessary.

Incorporate a soil conditioner/amendment in the form of peat free general-purpose shrub compost or well rotted mushroom compost along planting trench in a 50mm layer at the rate of 300g per m², and incorporate to a depth of 225mm.

Install a proprietary weed suppressant membrane onto the surface of the pre-prepared trench, with minimum 300mm laps. Plant hedge plants into pre-prepared planting strips which are deep enough as to be 200mm greater than the root depth of the supplied plant stock.

All hedge planting areas to be dressed with a minimum 75mm mulch layer, consisting of medium chipped tree bark, composted for 2-4 weeks, particle size 15-50mm, laid directly onto weed suppressant membrane.

Where not planted against an proposed fence-line or wall, hedges to be supported by min. 1000 high timber post and wire fence, consisting of min. 75mm diameter x 2000mm long, rounded timber posts, driven in a 2000mm centres with 20m, galvanised wire supports evenly spaced along the vertical axis of the post. Corner posts and/or straining posts to be additionally supported by 45° angled, 50mm diameter timber studs.

Amenity Turf Planting
Areas to be turfed are to be 'dag over' or rotolaved to ensure decomposition of any existing substrate and then final graded to bring to a uniform and even grade at the correct finished level, removing all minor hollows and ridges. Light rolling may be required to consolidate any loose substrate.

All stones and debris greater than 50mm in size to be removed and disposed of off-site.

Turfed areas are to consist of min. 150mm topsoil, either existing retained site sourced topsoil (free from weeds) or imported topsoil (Multi-purpose grade to BS3882:2015; sandy loam) or a combination of the two as necessary, overlying min. 150mm layer of clean, free-draining subsoil. Subsoil should be prepared as per shrub specification, ensuring full decomposition and free-drainage.

Unless otherwise stated, finished levels of turfed areas to be 30mm above adjoining paving and kerbs.

Final preparation of the turfed areas shall be carried out to create a fine 10th surface suitable for laying of turves.

Prepared areas to be watered thoroughly to a depth of 75mm and lawn establishment fertiliser should be applied at a rate of 40g/m², 48hours prior to turfing. Fertiliser to be spread into 25mm of the surface.

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a. The areas to be laid turfed between April and October with turf, as specified in the planting schedules (Appendix A).

b. Turves should be laid in a series of straight rows, with staggered joints. All joints are to be closely butted together. Timber planks should be used to spread the load of the installer during laying and areas are to be tapered down to ensure good contact between turves and the soil.

c. All turves should be laid within 24hours of delivery.

d. The contractor shall ensure that all turfed areas are watered fully at the time of installation to the full cultivated depth, and that sufficient subsequent watering is carried out to ensure healthy establishment of the grass sward.

Amenity Grass / Meadow Grass Seeding
Areas to be seeded are to be finely graded to bring to a uniform and even grade at the correct finished level and to remove all minor hollows and ridges. All stones and debris greater than 50mm in size to be removed and disposed of off-site.

Seeded areas are to consist of min. 150mm topsoil, either existing retained site sourced topsoil (free from weeds) or imported topsoil (Multi-purpose grade to BS3882:2015; sandy loam) or a combination of the two as necessary, overlying min. 150mm layer of clean, free-draining subsoil. Subsoil should be prepared as per shrub specification, ensuring full decomposition and free-drainage.

Unless otherwise stated, finished levels of seeded areas to be 30mm above adjoining paving and kerbs, 150mm below the dpc of adjoining buildings.

Final preparation of the seeded areas shall be carried out so as to create a fine 10th surface suitable for seeding.

For amenity grass areas only, a pre-seeding fertiliser shall be applied at a rate of 250g/ha approx. 7 days prior to seeding and raked into top surface e.g. GrolRight Lawn Establishment fertiliser by Robson Ltd, slow-release granular fertiliser, 7:10:10 NPK, or equal and approved by Landscape Architect.

The areas to be seeded between April and October with approved grass seed mix, as specified in the planting schedules at the specified rate. Following seeding, areas are to be hand raked and lightly rolled.

The contractor shall take the necessary precautions to ensure all grass areas are protected throughout the establishment period, with the use of chastnut pale fencing where appropriate.

The contractor shall ensure that all seeded and turfed areas are watered fully at the time of installation to the full cultivated depth, and that sufficient subsequent watering is carried out to ensure healthy establishment of the grass sward.

General Planting Maintenance
Refer to CSA/3823/103 Landscape Management Plan for detailed prescriptions

FOR LEAP 1 PLAY AREA
PROPOSALS REFER TO
CSA/3823/112

FOR PUBLIC OPEN SPACE
PROPOSALS REFER TO
CSA/3823/107-110

FOR PUBLIC OPEN SPACE
PROPOSALS REFER TO
CSA/3823/107-110

APPLICATION BOUNDARY

EXISTING TREES / VEGETATION

Softworks

SEMI-MATURE TREE

EXTRA HEAVY STANDARD TREE

STANDARD TREE

ORNAMENTAL HEDGE PLANTING

NATIVE HEDGE PLANTING

ORNAMENTAL SHRUB / HERBACEOUS / GRASS PLANTING

CLIMBING SHRUB PLANTING

AG-s

AMENITY GRASS SEEDING - 'A22 (Low Maintenance)' seed mix by Geminal Seeds Ltd or equal and approved. 50g/m², overseeded rate, 20g/m².

AG-1

AMENITY GRASS TURF - 'Medallion' turf by Rotem or equal and approved.

SW

SWALE SEEDING - 'A16' (Reclamation) seed mix by Geminal Seeds Ltd or equal and approved. 50g/m², overseeded rate, 20g/m².

GRAVEL - See schedule laid to a depth of 100mm over non-biodegradable geotextile membrane. Finished level to be 20mm below adjacent ground level

- Notes**
- Refer to CSA/3823/103 for Plant Schedule;
 - Refer to CSA/3823/104-106 for Hard Landscaping Proposals;
 - Refer to CSA/3823/107-110 for Public Open Space Landscaping Proposals.

Rev	Date	By	Description
8	11/02/19	AM	Revised to reflect site layout
7	10/01/19	AM	Revised to reflect site layout
CSA environmental 01 4462 743647 cso@csaenvironmental.co.uk www.csaenvironmental.co.uk			
Project Land East of 1 st Lane, Walberton			
Client Soft Landscape Proposals			
Sheet 1 of 3			
Title Linden Homes			
Scale 1:250 @ A0			
Date October 2018			
Drawing No. CSA/3823/101			