

## PLANTING SPECIFICATION

All plant handling to be in accordance with the HTA 'Handling and

consent of the client.

establishing landscape plants' Part I, Part II and Part III (obtainable The contractor is to ensure that adequate watering and weed control is 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

shown on the detailed planting proposal drawings supplied by the landscape architect. Contractor to ensure that plants are equally spaced within individual planting groups.

responsibility of the contractor and should follow closely the locations

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 root protection areas (RPA) in accordance with BS5837:2012. Contractor shall not remove or relocate any tree protection fencing without prior

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 arisings shall be removed from site and the contractor shall at all times, keep the site free from rubbish and debris.

For the duration of the works the contractor shall keep the site free

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

from injurious weeds as listed in the Weeds Act 1959.

All plants shall be hardened-off at the Contractor's own nursery or at

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

The Contractor shall carry out the work while soil and weather conditions are suitable. Planting is not to take place during periods of

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'

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 rootball is thoroughly soaked prior to final backfilling.

Generally plant trees in pits with minimum dimensions of;-• 1000 x 1000 x 700-800mm deep for trees in soft, planted

areas including; grass/shrub areas and rear gardens. material at the rate of min. 40L per pit.

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

· 200mm layer of compacted inert free draining gravel or pea shingle, wrapped in geo-textile membrane

• 100m layer of washed medium-course sand to act as blinding layer between geotextile and soil.

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

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. 300mm 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 BS8601:2013 to avoid topsoil occurring at depths of greater than

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 350mm, with a further layer of site-sourced or imported subsoil (to BS8601:2013) below to create a total depth of growth medium of between 400-500mm i.e. 150-200mm layer of subsoil. Drainage layer should

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

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/ameliorant in the form of peat-free tree and shrub compost or well rotted spent mushroom compost or 'Rootmaster' by Greentech Ltd (01423 332100) into backfilled topsoil

Incorporate soil improver 'Terracottem Arbor' by Greentech Ltd (01423 332100) at a rate of 1kg per pit, mixed thoroughly into backfilled

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 soft 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 1000-1200mm where appropriate.

Standard trees shall be staked and supported with a low, single stake consisting of 1No. 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

Trees shall be installed with proprietary flexible perforated irrigation/aeration 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 nailed securely in place to the adjacent timber stake.

All trees in grass areas to be protected by min. 225mm high x 12-15mm diam. proprietary plastic strimmer/vole guards. Where trees have a basal trunk diameter greater than 12mm e.g. semi-mature, then two or more guards should be joined together using jointing tape and

Root Barrier Membranes

For all proposed trees centred in a location within 3m of an adjacent hard standing/footpath or carriageway kerb line, a proprietary root barrier membrane will be installed to protect the hard standing and any underground services located beneath from future damage by tree

Where trees are proposed in close proximity to hard paved areas or

proposed service runs, a root barrier membrane is to be installed as

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 'Reroot 300' by GreenBlue Urban (01424 717797) or equal and approved, ribbed root barrier membrane, to a depth of 300mm, ribs facing tree, joints fixed with jointing tape, install 10mm above final surface level of soft landscaping.

For trees adjacent to hard standings incorporating

the depth of underground services;

underground services; install the following dependant on

# For services 450mm deep

o 'Reroot 600' by GreenBlue Urban (01424 717797) or equal and approved, ribbed root barrier membrane, to a depth of 600mm, ribs facing tree, joints fixed with jointing tape, install 10mm above final surface level of

# For services 800mm deep

o 'Reroot 1000' by GreenBlue Urban (01424 717797) or egual and approved, ribbed root barrier membrane, to a depth of 1000mm, ribs facing tree, joints fixed with jointing tape, install 10mm above final surface level of soft landscaping.

soft landscaping.

o 'Reroot 2000' by GreenBlue Urban (01424 717797) or equal and approved, ribbed root barrier membrane, to a depth of 2000mm, ribs facing tree, joints fixed with jointing tape, install 10mm above final surface level of

services exists on both sides of the tree e.g. grass verge, then a root barrier is to be installed against both kerb / edging faces. For trees located within hard surfaces themselves i.e. surrounded by hard paved surfaces, install 'Root Director' by GreenBlue Urban

(01424 717797) or equal and approved, ref: RD1400; 1400mm x

For locations where a hard standing with or without underground

# 1400mm x 450mm, plastic root director with integral ribs.

Generally clear any surface vegetation in proposed shrub and hedgerow areas, utilising proprietary herbicide where appropriate and install plants into isolated pre-prepared planting pits, generally 300 x 300 x 450mm deep or 200mm greater than the rootstock, whichever is (free from weeds) or imported topsoil (sandy loam, General Purpose grade to BS3882:2015) or a combination of the two as necessary.

Incorporate a soil conditioner / ameliorant in the form of peat free tree and shrub compost or well rotted spent mushroom compost into backfill material at the rate of 5L per pit, incorporating a slow release fertiliser e.g. Enmag (or similar approved) at a rate of 5g per pit.

### Ensure planting conforms to planting matrix where appropriate and in all other areas appears random / natural and not formal in accordance

with the planting proposal layouts.

Where rabbits are a known issue, all native shrub / hedgerow areas are to be fully enclosed by min. 900mm high rabbit proof fencing, supplied as min. 19 Gauge (1.2mm) galvanised mesh with max. 31mm openings, nailed with galvanised 20mm staples to 50-75mm diameter treated timber stakes at 1.5m centres, incorporating 3No. horizontal galvanised straining wires. Mesh fence to be heeled into ground 150mm below ground level. Straining posts of 100mm diam. timber should be installed every 50m or at every turn of direction 90 degrees

If additional deer protection fencing is required, all native shrub / hedgerow areas are to be fully enclosed by min. 1.8m proprietary plastic mesh fencing (50mm x 45mm gauge) secured to min. 100mm rounded, treated softwood posts, driven min. 750mm below ground level at 3.5m centres. Mesh fence to be heeled into ground 150mm below ground level. NB:- In areas where rabbits are also a known problem, an additional 300mm high section of min. 19 Gauge galvanised mesh (chicken wire) with max. 31mm openings to be fixed to the lower portion of the deer fencing and attached using proprietary

Any standard trees in the native shrub / hedgerow areas to be protected by min. 225mm high x 12-15mm diam. proprietary plastic

All small / feathered trees within native shrub / hedgerow areas to be protected by min. 1200mm high x 80-110mm diam, proprietary plastic mesh tree guard/shelter and secured in place with min. 25mm square treated softwood timber stake and fixed with plastic cable ties. NB:-Should red or fallow deer reside in the locality the tree guards/shelters

Any coniferous trees within native shrub / hedgerow areas must only be protected by open mesh tree guards.

All bushy native shrubs / hedgerow plants to be protected by min. 600mm high x 170-200mm diam, proprietary plastic mesh shrub shelters / guards and secured in place with treated softwood timber stake and plastic cable ties.

All single stem shrub / hedgerow transplants to be protected by min. 450mm high x 50mm proprietary plastic spiral guards secured with min. 12-14lb x 900mm long bamboo cane.

### All native shrub / hedgerow plants to be installed with a min. 500mm square, woven polypropylene mulch mat securely pegged in place.

Where native shrub / hedgerow areas are created from freshly

cultivated ground i.e. not into the existing sward, then the planting area

should be over-seeded with a proprietary meadow grass mix ('A4' mix

by Germinal Seeds Ltd) at a rate of 35gs m2 between planting

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

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

free-draining subsoil. Subsoil should be prepared as per shrub

Unless otherwise stated, finished levels of seeded areas to be 30mm

above adjoining paving and kerbs; 150mm below the dpc of adjoining

Final preparation of the seeded areas shall be carried out as to create

For amenity grass areas only, a pre-seeding fertiliser shall be applied

at a rate of 250kg/ha approx. 7 days prior to seeding and raked into

top surface e.g. GroRight Lawn Establishment fertiliser by Rolawn Ltd,

slow-release granular fertiliser, 7:10:10 NPK; or equal and approved

The area(s) is to be seeded between April and October with approved

grass seed mix, as specified in the planting schedules at the specified

The contractor shall take the necessary precautions to ensure all grass

areas are protected throughout the establishment period, with the use

rate. Following seeding, areas are to be hand raked and lightly rolled.

of the two as necessary; overlying min. 150mm layer of clean,

specification, ensuring full decompaction and free-drainage.

be removed and disposed of off-site.

a fine tilth surface suitable for seeding.

of chestnut pale fencing where appropriate.

establishment of the grass sward.

by Landscape Architect.

All plant and seed material will be will be UK sourced and grown. All plant material to be sourced from reputable suppliers with good biosecurity and phytosanitary procedures.

## **General Planting Maintenance**

All soft landscape areas to be maintained to BS7370-4:1993. Sufficient watering should be undertaken by the contractor to establis and maintain healthy plant growth.

The first cut / mow of all amenity grass seeded / turf areas should be undertaken when the established sward reaches 50mm in height down to a height of 25mm, after which all amenity grassed areas should be maintained at a nominal height of 25-30mm (March to October). All arisings are to be removed from site and composted.

The first cut / mow of all meadow and wet meadow (wildflower) areas to be undertaken when the established sward reaches 50mm in height or weeds colonise to a height of 300mm (whichever is sooner), to a nominal height of 25mm.

For spring sown meadows/wet meadows, the second cut should take place about 8 weeks after sowing, after which establishing meadow should be cut monthly down to 100mm during the first growing season to control weed growth, after which all meadow grass areas should be cut twice annually (June and September), to a nominal height of 100mm, once any wildflowers have set seed.

For autumn sown meadows/wet meadows, the second cut should take place in April, after which establishing meadow should be cut monthly down to 100mm during the first growing season to control weed growth, after which all meadow grass areas should be cut twice annually (June and September), to a nominal height of 100mm, once

All meadow arisings should be left lying for 48hrs before being

Meadow areas should be hand-weeded or spot swiped for any perennial weeds such as docks, nettles and ragwort.

All failed / defective plants identified within the first 5 years of The contractor shall ensure that all seeded and turfed areas are installation should be replaced by the contractor at the soonest watered fully at the time of installation to the full cultivated depth, and available planting season to ensure a continued coverage of growth that sufficient subsequent watering is carried out to ensure healthy Replacement plants should be of the same species and specification

of the failed specimens.

## Bare areas and areas of dead grass which become apparent should be rectified by overseeding and/or turf re-installation at the soonest

All amenity grassed areas and planting beds should receive an

application of a proprietary slow release fertilizer twice yearly in the All shrub planting and hedges shall be pruned at least twice per

annum, removing dead or dying wood, to maintain a healthy, natural All planting areas should be kept tidy and free from weeds, trimmings,

debris and litter. Weeds should be removed by hand unless where it is

unfeasible; whereby weeds can be treated by the application of a NB:- Herbicide usage to be limited to spray usage on calm days

(no wind) and undertaken by suitably qualified operatives in

Tree stakes, ties and guards should be checked annually for adjustment and/or replacement/removal as required

VEHICLE BARRIER ENTRY Three-way barrier system with built



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in Automatic Number Plate Recognition (ANPR) cameras SPEED BUMPS

TIMBER KNEERAIL FENCING

SLATTED PRIVACY SCREEN

ED LINE / SITE BOUNDARY

XISTING TREES / VEGETATION

XISTING WOODLAND

IOWN GRASS FOOTPATH

To be retained and made good.

EXISTING GRAVEL SURFACING

**GEO-GRID PAVING WITH PEA SHINGLE** 

To be retained and made good.

Hard Surfacing Materials

Street Furniture & Infrastructure

Planting Stategy



LOCKABLE TIMBER BOLLARD

A 28/01/20 LR Amendments to proposals following further consultation with client Rev Date By Description

**Drawing Status** FOR PLANNING



**Project** Panshanger Lane Car Park,

Panshanger Park Landscape Plan

1:250@ A1 Drawn LR Checked JC/JP September 2020

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