

PRELIMINARY - OUTLINE PLANTING SPECIFICATION

FREDERICK FINLAY CARE HOME, OXFORD ROAD, DEWSBURY

EXISTING TREE PROTECTION

Existing trees & scrub to site periphery retained & protected during works in accordance with Brooks Ecological AIA & Tree Protection Plan & Method Statement and Brooks Ecological CEMP, inc proposed protective fencing during construction works.

Proposed tree works and tree removals and scrub thinning and management proposed within Brooks Ecological AIA and BEMP must be carried out in strict accordance with the specifications within these two documents.

The protective tree and scrub fencing shall be erected prior to any demolition or construction works taking place and shall remain until all development is completed and no work, including any form of drainage or storage of materials, earth or topsoil shall take place within the perimeter of such fencing.

The removal of any existing trees or hedges approved for removal, shall take place outside the bird nesting season (1st March to 31st August inclusive), unless the site is surveyed for nesting birds by a qualified ecologist prior to their removal. If nesting birds are found, a scheme to protect nesting birds shall be submitted to and approved in writing by the local planning authority. The development shall thereafter only be carried out in accordance with the approved scheme.

All materials for construction purposes should be stored outside of the canopy and rooting zone of the tree and existing hedges. All toxic materials such as oils, bitumens and residues from concrete mixing should be kept well away from the protection zone/drainage zone of the trees, well away from their root systems, and should be retained within effective catchment areas as far away as possible to avoid risk of tree root contamination. The routing of any services within tree and hedge protection zones should be avoided as far as possible. Any excavation that should prove necessary within the Tree canopy and rooting zones eg for proposed fencing posts or drains should be carried out by careful hand dig to avoid root damage, and under supervision of Arboricultural Consultant. Paving within the RPA's shall comprise a 'No dig' cellular paving construction in accordance with recommendations in the AIA.

TOPSOIL SUPPLY AND DISTRIBUTION TO ALL TREES, SHRUBS, AND GRASS AREAS

All topsoil to garden areas to be imported. Topsoil to peripheral areas beneath existing trees to be retained. Contractor to allow for all relevant Topsoil Analysis and Certification to be presented prior to imported topsoil supply and delivery to prove that the topsoil meets BS 3882:2015 Specification for Topsoil and requirements of Multi-Purpose Grade, to prove its suitability for trees, shrubs and amenity grass, and also to prove that the topsoil is free of contaminants. Imported Topsoil should also preferably be an As Dug (natural) topsoil rather than a manufactured topsoil, unless from a reputable supplier eg Greentech, 'Green Tree' Topsoil) including providing all relevant certification, to prove it is suitable for use and free of contaminants.

NB. All general BS 3882:2015 topsoil import, low nutrient wildflower topsoil / friable subsoil to wildflower areas, may also be subject potential testing & monitoring requirements associated with any Remediation Strategy requirements that evolve.

GENERAL PLANT SUPPLY & PLANTING

All plant material to be supplied in accordance with BS 8545 " Trees: from nursery to independence in the landscape -Recommendations" BSI 2014; BS 3936 Parts 1-4 and 9-10, and B.S. 5326 All plants to the correct species and stock size specified, and to be good specimens characteristic of species. All plants to be supplied free from pest and disease. All trees and shrub and herbaceous species have been specifically selected for their form, height, & individual characteristics, and also in certain locations for their lack of fruit/ berries/ thorns /and non-toxicity therefore no substitution of species whatsoever to be carried out without prior consent. Planting operations are to be carried out during suitable weather avoiding periods when ground is frozen, waterlogged or excessively dry spells. All trees & plants should be watered in well at time of planting.

STATUTORY SERVICES & DRAINAGE AND TREE PIT EXCAVATIONS

The landscape contractor should establish positions and depths of all drains & services, including any realigned services, easements etc on site prior to any ground modelling or excavation works. Any potential conflict with proposed trees and drains or services should be brought to attention of the Clients Project Coordinator, and realigned positions agreed, or ribbed root directors/ barriers used -or drains locally encased on concrete, to be agreed on site prior to planting. Contractor to allow for tree pits to be hand dug where necessary with care to avoid services and existing tree roots..

Refer also to the general notes and legend on landscape drawing 711.04 re root barriers included locally to one side of several proposed trees where FW or SW drains run nearby, and also re the inclusion of root resistant geomembrane around the proposed attenuation tank under southern car park aisle. Failing that, island tree beds to be surrounded by root barriers.

Where root barriers are deemed necessary vertical root barriers to depth TBA dependant upon services or drain depth - eg Reroot 1000 by Green Blue Urban or similar - which is 1m depth - installed with ribbed side facing tree roots - to deflect roots downwards

PROPOSED EXTRA HEAVY STANDARD NATIVE AND ORNAMENTAL & FRUIT TREE PLANTING

To be planted in 1.5m x 1.5m x 700 mm depth pits. Planting medium to pits comprising 80% approved quality clean and tested imported topsoil to BS 3882:2015 Multi-Purpose Grade and 20% approved peat free compost and Enmag fertilizer to be incorporated at a rate of 70 grams/m². Mycorrhizal fungus should be applied to new tree either in the form of powder, granules or spikes. Powder and granules should be applied over the exposed roots of the transplanted tree and spread over the newly dug hole. Mycorrhizal spikes should be pushed into the rootball once the tree has been planted. An irrigation pipe -eg Green - tech Mona Relief Grande MRG 3 (3m x 60mm dia pipe) to be supplied with a Mona Relief Grande Aria Inlet; or Green Blue Urban Root Rain irrigation pipe system e.g. RRURBIA 3m long x 60mm dia. pipe with 80mm dia. inlet, installed in accordance with suppliers instructions. irrigation pipe & cover to be installed around tree root ball.

Trees to be staked with min 2.5m long (or longer as required) x min 75mm dia , peeled round softwood eg Larch stakes, 2 per tree, set approx. 600mm apart/ or bridging the root ball . eg Machine rolled tree stakes by Green-tech, driven into the ground beneath the pit to a depth of at least 300mm below the pit or additional as required to hold firmly without rocking. Stakes to be cut neatly at top as necessary to a height of approx. 700-900mm above ground level, or ht TBA with client.

Fruit trees being smaller may require just one stake and tie.

Tree ties shall be biodegradable Holdfast Natural Tree ties by Green-Tech or NATURETIE by Toms Tree ties 50mm wide and cut to lengths. Can be used to create spacer knots to prevent chaffing. To be tied around each stake and attached to the tree trunk.

Allow for ventilated clear spiral rabbit guards to base of trees.

Allow for watering in, to field capacity upon planting and then a second watering 48 hours later, and regularly during dry periods, eg 50 litres per tree per week during April to September during first two years. Trees are to receive an 800mm dia circle x 75mm depth of bark mulch around bases -to be topped up and replaced annually for first three years to retain moisture & suppress weeds. No strimming, mowing or chemical spraying shall be allowed within the 800mm diameter circle around the base of all trees throughout their lifetime.

Allow for ventilated clear spiral rabbit guards to base of trees.

All proposed EHS trees are to be kept well away from other existing and proposed statutory services and drains.

Where necessary root barriers shall be installed as far from tree as feasible, to a depth TBA, using ribbed root barriers to deflect roots downwards

All proposed orchard trees are to be kept well outside drainage easements, and away from other existing and proposed statutory services and drains, and at least 4.5 metres from the Underground electrical cable routes. If planted any closer root barriers should be included.

PROPOSED NATIVE SCRUB PLANTING TO EXISTING PERIPHERAL TREE SCRUB ZONES

Once existing scrub is reduced in height by 50% outside the bird nesting season and in strict accordance with the BEMP recommendations, and at appropriate timing in the construction/ planting programme- the proposed scrub transplants will be planted into carefully hand dug pits approx 300mm² x 400mm deep, with care to avoid severing any existing tree and scrub roots, incorporating 20% approved quality peat free planting compost into the existing topsoil backfill mix. Any imported topsoil is to be clean and tested and to comply with BS3882:2015 Multi-Purpose Grade, 'As Dug' not manufactured topsoil, including presentation of all necessary certification in accordance with the BS. 3882:2007 Multi Purpose Grade. Plants to be staked only if necessary to ensure vertical growth. Plants to be well watered in. A 75mm layer of approved quality coarse / medium grade bark mulch to be introduced to whole of finished hedge line to full width.

Rabbit protection to be provided as clear perforated spiral rabbit guards 600mm ht- if there is evidence of rabbits on the site/ or in the local area.

PROPOSED GARDEN HEDGES INC PERIPHERAL BEECH HEDGE

All proposed Beech hedges, and residents lawn central hedge are to receive 400 mm depth x 800mm wide (Beech) and 700mm wide (central lawn hedge), trenches of approved quality clean imported topsoil to BS3882:2015 Multi Purpose Grade, over a de-compacted and free draining formation level. To be made weed free, and cultivated, including incorporating a 35mm layer of peat free compost across whole of shrub beds, and incorporating Enmag fertilizer at a rate of 70 g/m² both to be worked into the full depth of topsoil prior to planting. All hedge beds to receive 75mm depth of medium/ coarse grade bark mulch on top.

Beech plants to be planted in a staggered row.

NB, The two dwarf lavender hedge beds to residents lawn to receive 400mm depth x 300mm wide topsoil trenches to the above specification, with Lavender planted in a single row.

ORNAMENTAL SHRUBS & GROUNDCOVER PLANTING

All proposed shrub and groundcover areas are to receive 400 mm depth approved quality clean imported topsoil beds to BS3882:2015 Multi Purpose Grade, over a de-compacted and free draining formation level. To be made weed free, and cultivated, including incorporating a 35mm layer of peat free compost across whole of shrub beds, and incorporating Enmag fertilizer at a rate of 70 g/m² both to be worked into the full depth of topsoil prior to planting. Specimen plants of 25L size plus, to be planted in 800mm³ pits, and all specimens to have backfill of 80% topsoil /20% approved peat free compost. All plants to be well watered in. All shrub beds to receive 75mm depth of medium/ coarse grade bark mulch on top.

PROPOSED WOODLAND WILDFLOWER MEADOW MIX BENEATH PERIPHERAL EXISTING TREES/SCRUB

In accordance with BEMP, these areas are to receive Emorsgate EW1 Woodland Mixture at a rate of 4g/m², in existing soil which should be retained and protected in situ in accordance with the BEMP specification. Soil to be made weed free by hand, and lightly hand scarified ready to take seed mix.

NATIVE WILDFLOWER MIXES TO PERIPHERAL EDGES OF SCRUB AREAS & SEMI SHADED AREAS

To be sown with Emorsgate EW1 Woodland Mixture at a rate of 2g /m², in conjunction with Emorsgate EM2 General Purpose Meadow Mix at a rate of 2g/m², sown on 50mm of low nutrient calcareous topsoil over subsoil.

Topsoil to be loose tipped and spread with a back actor to avoid compaction and cultivated to a fine filth ready for seeding (avoid harrowing in root protection areas -carefully cultivated by hand). In accordance with Brooks Ecological BEMP recommendations-If soils have been spread before September any weed growth that has established in the meantime to be sprayed off with Glyphosate and a seed bed prepared. Seed to be either sown by approved lightweight machinery or by hand. Following seeding the area to be lightly rolled to incorporate the seed with the growing medium.

WILDFLOWER MIX TO MORE OPEN AREAS EITHER SIDE OF RAMP & EAST & WEST OF CAR PARK

To be sown with Emorsgate EM2 General Purpose Meadow Mix at a rate of 4g/m² ,sown on 50mm of low nutrient calcareous topsoil over subsoil. Topsoil to be loose tipped and spread with a back actor to avoid compaction & cultivated to a fine filth ready for seeding (avoid harrowing in root protection areas -carefully cultivated by rake). In accordance with Brooks Ecological BEMP recommendations-If soils have been spread before September any weed growth that has established in the meantime to be sprayed off with Glyphosate and a seed bed prepared. Seed to be either sown by approved lightweight machinery or by hand. Following seeding the area to be lightly rolled to incorporate the seed with the growing medium

FLOWERING LAWN MIX TO SELECTED GRASSED BEDS

To be sown with Emorsgate EL1 Flowering Lawn Mix at a rate of 5g/m² sown on 50mm of low nutrient calcareous topsoil over subsoil. Topsoil to be loose tipped and spread with a back actor to avoid compaction and cultivated to a fine filth ready for seeding. In accordance with Brooks Ecological BEMP recommendations-If soils have been spread before September any weed growth that has established in the meantime to be sprayed off with Glyphosate and a seed bed prepared. Seed to be either sown by approved lightweight machinery or by hand. Following seeding the area to be lightly rolled to incorporate the seed with the growing medium.

REGULARLY MOWN GRASSED LAWN AREAS IN RESIDENTS GARDEN

To receive 150mm depth clean and tested imported topsoil to BS3882:2015 Multi-Purpose Grade laid over a de compacted and free draining formation and cultivated and made weed free. To either be turfed with an approved quality cultivated turf from a reputable Turf Growers Association supplier in accordance with BS 3969 - latest edition or seeded with an amenity grass mix eg A2 Quality Lawns Mix by Germinal Seeds at a rate of 35g/m². If soils have been spread before September any weed growth that has established in the meantime to be sprayed off with Glyphosate and a seed or turf bed prepared. Seed if used to be either sown by approved lightweight machinery or by hand. Following seeding the area to be lightly rolled to incorporate the seed with the growing medium.

OUTLINE MAINTENANCE SPECIFICATION

All soft landscape and BNG elements are to be maintained and guaranteed by the landscape contractor during 12 months defects liability period if applicable, and thereafter under a long term maintenance regime organised by the client. Maintenance operations are to be in accordance with the maintenance and management regime described in Brooks Ecological BEMP relating to peripheral existing & proposed native scrub and wildflower grassland areas, and in accordance with the 5-year Landscape Maintenance Schedule (excel document) to the general garden areas and proposed trees. Regular maintenance operations to the new planted garden areas are to include monthly hand weeding operations to trees, and shrub areas; and twice annual pruning of hedges, avoiding bird nesting season once established. Also watering new trees, shrubs and grass areas as necessary during prolonged dry periods. Also mowing amenity grass lawn areas regularly during the growing season (every 1 to 2 weeks). Flowering lawns could be mown less regularly eg monthly and left for 5 weeks in June. depending upon client requirements. Wildflower areas to be mown/ strimmed in accordance with BEMP specifications. Contractor to allow for replacing any plant failures, and repairs to grass areas & topping up bark mulch annually to trees and planting beds during establishment period.