

Preparing for topsoiling
Grading and cultivation shall be in accordance with BS 4428:1989 section 4. Subsoil that is to receive topsoil shall, whether obviously overcompacted or not, be thoroughly broken up by hand, by heavy rotovator, by subsoiler or tined equipment with adequate passes made to thoroughly break up the surface to a depth of 150mm, cleared of all large stones, bricks, perennial weeds, tree

Subsoil shall only be graded after loosening as above, and this shall be undertaken by the use of a tractor and blade grader on large areas and by a small mechanical grader or by hand on small areas. Ground shall at no time be traversed by heavy machinery, for grading or any other purpose

When subsoil is deposited in low lying areas to raise formation levels, it shall be lightly

consolidated and left broken up ready to receive topsoil. Imported fill material shall be natural subsoil free from metal, concrete or organic material with any one dimension greater than 100mm. All imported fill material shall be approved by the Landscape Architect prior to spreading on site.

Topsoil to be supplied shall be approved by the Landscape Architect and details of the source of

shall conform to BS 3882: 2015, Recommendations and classification for topsoil, clause 4.1a. The soil shall be free of weeds, roots or perennial weeds, pests, diseases, debris, tree roots, sticks, subsoil and foreign matter and shall be capable of being broken down to a fine tilth. The depositing of temporary heaps of topsoil shall be so arranged that possible damage to existing

grass, plants, tarmacadam, paving etc. is avoided. Unless otherwise agreed by the Landscape Architect, temporary spoil heaps shall be on protected ground. Such protection shall take the form of tarpaulins, plastic sheets, boards or similar covering. If damage does occur, it shall be made good at the contractor's own expense. Areas excavated to receive topsoil but have not had the base loosened shall not be used as temporary off loading areas. If the bottom of the excavation has been loosened off, loading on these areas is permissible.

Prior to topsoil replacement the formation level shall be cleared of all stones, rubbish, debris with any one dimension greater than 75mm. Areas to be seeded or turfed shall be covered by topsoil 100mm thick and areas to be planted shall be covered by topsoil 400mm thick. Topsoil shall be spread in an evenly consolidated layer and shall be left cleared of all roots, stones and debris with any one dimension greater than 50mm throughout its depth. Unless otherwise stated the finished level shall be 25mm above adjacent hard areas. No topsoil shall be spread until the subsoil grade

Planting areas shall be rotovated to a depth of 225mm in the original ground, or where the ground Pick off stones, bricks, timber and all other debris arising which have any dimensions greater than 50mm and remove off site to tip. Do not cultivate across any drain where the stone is flush with

Where directed composts, fertilisers or other additives shall be incorporated into the soil. Spent mushroom compost or similar shall be spread to the specified thickness and incorporated, by

rotovating, into the top 150mm. Fertilisers, organic or inorganic, shall be raked into the top 25mm. All plant material should comply with the minimum requirements in BS 3936:part 1, specification for

trees and shrubs and part 4, specification for forest trees; BS 4043, recommendations for transplanting semi-mature trees and BS 5236 recommendations for cultivation and planting trees in the advanced nursery stock category. Any plant material, which in the opinion of the Landscape Architect, does not meet the requirements of the Specification, or is unsuitable, or defective in any other way, will be rejected. The minimum specified sizes in the plant schedule will be strictly

Planting shall not take place in frosty, snowy or waterlogged conditions. Where approved, pot or

be supplied. Torn or damaged roots and branches shall be cleanly pruned prior to planting. The nature of the material to be planted is variable and the contractor shall allow for planting to be

properly carried out in all cases as described in BS 4428: 1989 section 7 Amenity tree planting, section 8 Woodland planting and section 9 Planting of shrubs, herbaceous and bulbs. All plants shall be planted at same depth, or very slightly deeper, as they were grown. Roots shall not be bent, broken or forced into inadequate pits or notches. Plants shall be upright, firmed in and wind resistant, with no air pockets around roots. All pots and root wrappings shall be carefully removed prior to planting. All pots and wrappings arising shall immediately be picked up and stored ready for removal to tip. Plants shall be planted at the specified centres. On steep slopes this shall be in

Trees shall conform to BS: 3936 and be planted in tree pits of the following sizes unless directed Feathered trees - 900 x 900 x 450 up to 3 metres high

Heavy standards/Extra heavy standards - 1200 x 1200 x 600 Excavated subsoil or stone shall be carted off site to tip. The bottom 250mm of the pit shall be dug and broken up. The bottom of the pit shall be backfilled with subsoil (site or imported) to comply with BS 8601: 2013. The top 300mm of the pit shall be backfilled with imported topsoil as specified

Compost shall be a proprietary product, bark based incorporating fertilisers and improving additives. The type of compost shall be approved before its delivery on site, and the details of the product shall be supplied. Cambark planting compost is approved. Where directed compost shall be added to and mixed with topsoil backfill at the following rates:

Stakes shall be peeled round softwood, pointed, minimum diameter 75mm. The stakes shall be driven into the base of the tree pit prior to placing the tree and backfilling. Stakes shall in general have a clear height above the finished ground level as follows unless

Heavy standards/Extra heavy standards - 1200mm (2 stakes, one tie each) The stake shall be long enough to drive until they hold the tree firmly without rocking.

or other equal and approved. Nails shall be flat headed galvanised and shall hold the ties securely into the stake. Ties shall not be over tight on the tree stems. Ties available from J Toms Limited, Heavy standards/Extra heavy standards - Type L3 (one tie per stake)

Ties for rootball and container grown trees shall be 50mm rubber tree belts in a figure of eight around the tree. Fixed to the stake with two flat head galvanised nails.

should be done to ensure close contact between roots and by firming in layers (bareroot). The soil shall be left level and tidy, any subsoil clods, bricks or stones over 50mm arising, collected and

covering the whole of the bed, or in the case of standard trees within grass shall be in the form of a circle of 600mm diameter around the base of the tree. Whips and transplants shall be mulched in the form of a 300mm diameter circle around the base of the tree. Where trees are planted within grass a circular hemp mulch mat is required beneath the layer of mulch at the diameters stated above, secured with fixing pegs. The tree pit surface shall be as big as possible.

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Trees shall be anchored using under ground guying system, installed in accordance with

The tree shall be set upright and at the same depth as grown in the nursery. The trunk flare at the base shall be just visible and the pit backfilled with subsoil and then topsoil compost mixture. The soil shall be left level and tidy, any subsoil clods, bricks or stones over 50mm arising, collected and

All areas to be turfed shall be cultivated to a depth of at least 100mm, all weeds, stones and refuse larger than 50mm shall be removed to Contractor's tip, and shall be brought to a fine tilth. Allow for

Turf shall be extra-quality meadow turf and shall comply to BS 3969 and shall be laid in accordance with BS 4428 section 6, Turfing. The contractor shall supply a sample of the turf he proposed to use for approval of the Landscape Architect and shall ensure that all turves are similar to the approved sample. The Contractor shall inform the Landscape Architect of the location of the

Turf shall be laid when weather and soil conditions are suitable and, where possible, preference should be given to autumn and early winter operations. No turf shall be laid in exceptionally dry or frosty weather or in other unsuitable weather conditions.

For large areas, turf shall be delivered at appropriate intervals throughout the work so as to avoid

No turf shall be laid until the soil preparation has been satisfactorily completed by being brought to an even tilth and firmness. Turves from the stack shall be wheeled to turf layers on planks laid closely side by side. Adequate timber planks shall be used to support operatives and barrows, and provide access. The turves shall be laid in consecutive rows with broken joints (stretcher bond), previously laid. Where necessary, the turves shall be lightly and evenly firmed with wooden beaters, the bottom of the beaters being frequently scraped clean of accumulated soil or mud. A dressing of finely sifted topsoil shall be applied and well brushed into the joints. Any inequalities in nished levels owing to variation in turf thickness or uneven consolidation of soil shall be adjusted y raking and/or packing fine soil under the turf. A roller shall not be used. The finished levels of the turf shall conform to the levels indicated, allowing for final settlement. Turf edges and margins shall be laid with whole turves. Turves adjoining buildings, walls or fences shall be taken to the

the Contractor shall be responsible for the replacement of any scorched turf. All necessary watering shall be carried out with sprinklers or oscillating sprays so as not to wash soil out of joints. If shrinkage occurs and the joints open, fine topsoil shall be brushed in and well watered.

The recommendations in BS 5837 (2012), Trees in Relation to Design, Demolition & Construction No pruning, lopping, felling or severance of roots is to take place without prior consent of the local Any work to the existing trees is to be carried out by a qualified tree surgeon. The position and construction of protective fencing shall be agreed with the local authority prior to Under no circumstances must any materials be stored under the canopy of existing trees, and no No vehicles should pass under the canopy of existing trees.

Scaffolding may only be erected within protected areas if it is done so in accordance with BS 5837. Any excavations under existing tree canopy spreads shall be done by hand. All maintenance to be carried out up to handover to the adopting authority/ householder from the

date of planting and turfing to ensure successful establishment. All dead, diseased, damaged plants must be replaced during this time unless the local Planning Authority states, in writing, any

The Contractor shall ensure that sufficient water is applied to maintain healthy growth.

The initial cut shall be carried out when first growth is apparent, blades set 20mm above ground. The Contractor shall continue cutting at appropriate intervals during the growing season and maintain 40mm high sward until grass areas are handed over. Watering, weeding, cutting, repair of all erosion and settlement and re-seeding as necessary to establish a uniform and healthy stand of grass shall continue until handover to the householder.

Soil Preparation and Cultivation

GRASS SEEDING AND MAINTENANCE

grammes per sq.m.

Final grading of topsoil shall be agreed by the Landscape Architect before cultivation and seeding. All areas to be seeded shall be cultivated to 150mm depth and all weeds, stones, and refuse larger than 50mm shall be removed to tip. Cultivated soil shall be rolled and raked to produce a tilth 25mm deep. Allow for hand cultivation where machine work is not possible. Seed sowing must immediately follow the preparation of the

The operation should be carried out in equal sowings and transverse directions and the seed shall be raked or

harrowed in. Sowing shall be at the rate of 50 grammes per sq.m. and overseeding shall be at a rate of 20

Sowing shall be carried out during calm weather. All sowing is at the contractor's own risk and any areas where germination fails shall be re-seeded at the contractor's own expense.

The seed mix shall be A22 mix, obtainable from Germinal Seeds GB.

Grass seed shall be of the composition, purity and germination as specified in BS:4428: 1989. Certificates of purchase shall be provided for all deliveries prior to the sowing of grass seed stating source, mixture, purity Alternative cultivars of the above species may only be used if approved by the landscape architect.

Protection of Newly Seeded Areas All reasonable precautions shall be taken to ensure that pedestrian and other traffic does not cross the grass

areas during cultivation, seeding or until grass is established. Where obvious 'Short cutting' is occurring, the contractor shall erect an approved temporary fence so as to minimise the maintenance period or until such time as it is no longer necessary, or as directed.

When the grass is 100mm high, it shall be cut down to 50mm so as to avoid root pulling. If the grass has

been allowed to grow any longer than 100mm then the cuttings shall be raked off and taken off site.

When the grass is 65mm high a second cut shall be carried out using a rotar mower. No more than one third of the foliage must be removed.

Thereafter, when the grass grows to 100mm high, it shall be cut down to 50mm with a flail type mower, until the end of the maintenance period, or longer if so directed. The grass shall be cut on a regular basis if so

Any defects such as shrinkage, ponding, sparse germination or disease shall be made good and re-seeded all

The contractor will be responsible for cultivating, seeding and maintaining, as above all areas of existing turn that are damaged during the course of the works for reasons of storage, working areas, transport of materials excepting those areas which are specifically defined and measured in the contract.

Any areas, which in the opinion of the Landscape Architect, are consolidated during the course of these works, shall be loosened with a ripper or other suitable implement to ensure adequate drainage through the

WILDFLOWER GRASS SEEDING & MAINTENANCE Preparation for seeding

No topsoil shall be imported in to the wildflower areas and seed should be sown into good quality,

The area shall be cultivated to 150mm depth and all weeds, stones and refuse larger than 50mm shall be removed to tip (Cultivation of soil not to occur beneath existing tree canopies). Cultivated soil shall be rolled and raked to produce a tilth 25mm deep and left for 2-3 weeks to allow existing weeds in the seed bank to germinate. After 2-3 weeks, a spray off of the newly germinated weeds will be carried out, allowed to die back and then raked off. Seed sowing must be undertaken immediately after the area has been prepared and weeds removed, lightly watering area before seeding. Seed shall be sown during late August or September or, if this is not possible, during April

Sowing shall be carried out during calm weather. All sowing is at the contractor's own risk and any

areas where germination fails shall be re-seeded at the contractor's own expense. The operation should be carried out in equal sowings and transverse directions. The contractor must ensure that the grass and wildflower seed is thoroughly mixed throughout sowing. The seed mix shall be sown at the rate specified by the manufacturer and then raked into the soil surface and lightly rolled. Wildflower seed mix

Sow the wildflower seed available from Emorsgate Wild Seeds. Certificates of purchase shall be provided for all deliveries prior to the sowing of the wildflower mix, stating source, mixture, purity and germination percentage. Sources must be of indigenous stock. Protection of newly seeded wildflower areas All reasonable precautions shall be taken to ensure that pedestrian and other traffic does not cross the wildflower areas during cultivation, seeding or establishment. Where obvious short cutting is

maintenance period or until such time as it is no longer necessary, or as directed. First cut of wildflower meadow Areas seeded during August to September shall be cut lightly in the spring using a flail mower, or

occurring, the contractor shall erect an approved temporary fence so as to minimise the

strimmer, when the meadow reaches a height of 100mm. Areas seeded during April to May shall be cut in October when flowering is over. In both cases, all cuttings shall be raked up and removed

Hereafter cutting shall be undertaken, with a flail mower or strimmer, when flowering is over, annually during September to October. All cuttings shall be raked up and removed.

Any defects such as sinkage, ponding, sparse germination or disease shall be made good and re-seeded all as above.

> Amends to latest layout Aug 18 B FW to undertake Impact Assessment Feb 18 A JW No dimension to be scaled from this drawing Date C Copyright reserved



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LANDSCAPE PROPOSALS

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