LANDSCAPE SPECIFICATION

SITE PREPARATION

Existing topsoil shall be stripped before building works begin. Imported topsoil shall be to BS3882: 2007 Specification for Topsoil and Requirements for Use. Topsoil shall be multi-purpose grade, of medium texture, with a high proportion of fertile loamy material. It shall be free from subsoil, rubbish, rubble, contamination, roots of perennial weeds and other materials injurious to plant growth. The maximum stone content of the soil shall be 20%, with the maximum size of stone 25mm in any one dimension. All topsoil shall be stacked in heaps, not exceeding 2m high. During storage, topsoil heaps shall be kept free from compaction, contamination and weeds.

Excavation shall NOT be undertaken within the root protection area of any existing trees or shrubs to be retained. Unless otherwise indicated areas to be planted / seeded shall be cleared of all surface rubbish and excavated to the dimensions below finished level as follows, when the soil is not waterlogged or frozen. Ensure the location of all services is known before any excavation operations.

As per specified details Shrub and hedge pit / trench: 450mm deep 300mm deep

Wildflower grassland areas: Excavate to finished levels

The base of excavated areas shall be forked or otherwise cultivated to a depth of 150mm to facilitate drainage and all bricks, stones and other debris, etc. over 75mm in any one dimension shall be removed. Similarly, areas trafficked by construction vehicles shall be ripped to a depth of 150-300mm to relieve compaction.

Backfilling with Subsoil

Where excavated areas are lower than the required depths, excavations shall be backfilled with selected subsoil and lightly consolidated to make up levels. Selected subsoil shall be friable, second quality topsoil or similar and be free of rubbish, roots, stones over 75mm in any one dimension, perennial weeds or other materials injurious to plant growth.

Backfilling with Topsoil

Tree, shrub and hedge pit / trench excavations shall be backfilled, in layers, with clean topsoil (as specified above) thoroughly mixed with planting compost e.g. 'Melcourt Topgrow' compost at a rate of 20 litres/m². An approved tree and shrub fertilizer shall be added to topsoil, prior to backfilling tree-pits. Grass areas (excluding wildflower grassland areas) shall be backfilled with topsoil in layers of 150mm depth.

Prior to cultivation if planting / seeding areas are weed infested, weed growth to be strimmed, the arisings removed and re-growth treated with an approved herbicide ie Glyphosate. Treatment to be undertaken in the growing season preceding planting, at a minimum 4 weeks prior to works to allow for repeat treatment if necessary.

Cultivation shall not be undertaken within the root protection area of any trees / shrubs to be retained, without prior agreement from the Local Planning Authority. Topsoil shall be cultivated by hand or machine prior to planting, with minimal compaction by machine. Cultivate to the following depths and tilth, removing all rubbish, vegetation, perennial weeds, roots, stones over 25mm in any one dimension and rake to even levels.

400mm deep cultivation to medium tilth Planting areas: Grass seeding areas: 150mm deep cultivation to fine tilth raked to a smooth evenly firmed bed Turf areas: 150mm deep cultivation to medium tilth raked to a smooth evenly firmed bed Wildflower grassland areas: 150mm deep cultivation to medium tilth raked to a smooth

Wildflower grassland areas: Where un-excavated areas are to be seeded with wildflower grassland mix the topsoil shall be cultivated to turn the soil over to a depth of 300mm to bring subsoil to the surface. Elsewhere, excavated areas to be seeded with wildflower grassland mix to be backfilled to finished levels with subsoil (as above).

PLANTING

evenly firmed bed

Plant Stock and Timing

Plant material and operations shall conform to BS8545: 2014, BS 3936 Nursery Stock (Parts 1-10), BS 4428: 1989, BS 4043: 1989 and BS 5837: 2012. The planting season shall be from the 1st October to the 31st March. Container grown stock may be planted outside this season if accompanied by daily watering, or as necessary to ensure healthy establishment. Planting shall not be carried out during periods of frost, drought, cold drying winds or when the soil is waterlogged or frozen.

All planting that is within the root protection area of existing trees/shrubs to be retained, shall be undertaken by hand and positions altered should tree roots be encountered, in order to avoid damage to the root system.

All plants shall be set out evenly over the areas as indicated, to the density and quantities shown. All plants shall be planted upright at the same depth as the nursery soil level and evenly spaced, leaving room for growth. All restrictive containers shall be removed with roots not twisted. Immediately following planting, all plants shall be watered-in to field capacity.

Container grown and root balled plants shall be planted in a planting pit sufficient to accommodate the plant without causing root damage, with a minimum 50mm backfill beyond the root ball extent. Plants to be firmed, watered-in and dead, damaged or lopsided branches shall be removed after planting. Bare-root plants shall be slit planted, incorporating an approved high phosphate, slow-release fertilizer.

Tree Planting and Support

Trees planted in landscape areas shall be installed as specified.

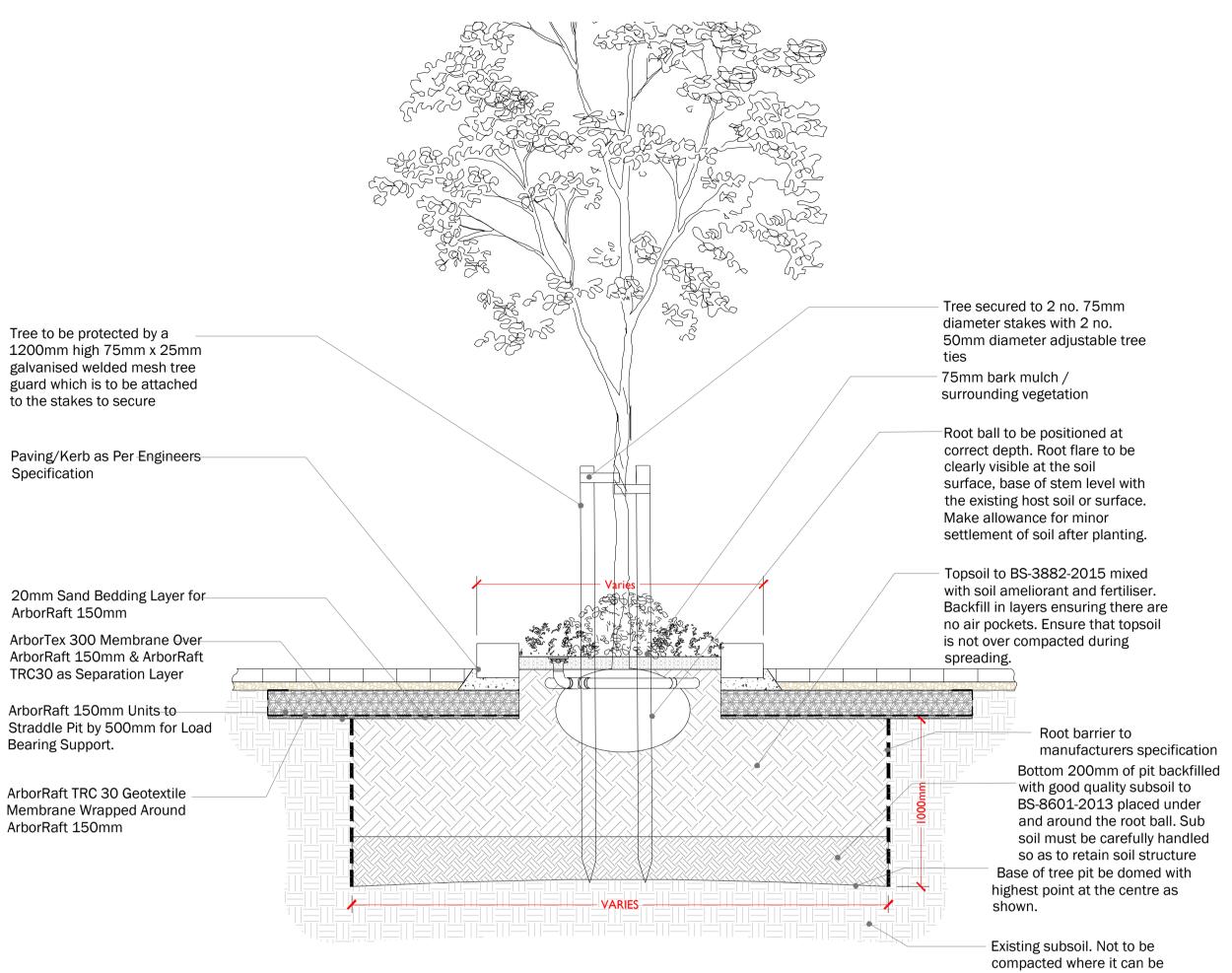
All trees to be firmed in after planting. All trees shall have irrigation / aeration system units fitted to fully surround the root ball.

Hedge Planting

Hedges shall be planted as per specified detail. Dead, damaged or straggly branches shall be removed after planting. All transplants in hedge and native mixes shall be fitted with individual protection ie shrub shelters, spiral guards as specified, or alternatively the planting areas shall be protected with rabbit-proof fencing. All shrub shelters / spiral guards shall be black or green, adequately supported and installed to allow for expansion.

Prior to the application of mulch the planting areas shall be completely weed free and watered sufficiently to achieve field capacity. The surface of the planting areas shall be mulched with a minimum 75mm depth layer of 15-65mm nominal particle size, dark, matured woodchip mulch, ensuring that the low branches of trees, shrubs and/or herbaceous plants are NOT smothered.

Mulch shall be an approved product and completely weed and weed seed free. The mulch shall be topped-up to maintain, after settlement, a depth of not less than 50mm. Trees in grass areas shall be planted centrally within a 1m diameter mulch bed, to be mulched to 75mm deep. The surface of mulch to be 10mm below the surface of adjacent lawn / hard surface.



TYPICAL TREE PLANTING DETAIL NEAR HARD LANDSCAPE - Underground guy fixing within hard landscape with ArborRaft system by GreenTech, incorporating tree guard - Not to Scale

1800mm Timber stake and adjustable ties - minimum top diameter 75mm. 800mm above ground level. Nail Root ball to be positioned at tie onto stake. Use spacers as indicated. Do not correct depth. Root flare to be tighten excessively. clearly visible at the soil surface, base of stem level with the existing host soil or surface. RRURB1A RootRain Urban irrigation system by Make allowance for minor Greenblue Urban or similar approved. Ensure inlet is settlement of soil after planting. slightly above finished surround level and that system is completely level. 75mm bark mulch / surrounding vegetation Topsoil to BS-3882-2015 mixed with soil Carriageway / footway in ameliorant and fertiliser. Backfill in layers accordance with Engineer's details / existing surfacing ensuring there are no air pockets. Ensure that topsoil is not over compacted during spreading. ReRoot 1000 Root barrier (sufficient depth to protect Bottom 300mm of pit backfilled with good concrete bed / granular base quality subsoil to BS-8601-2013 placed under structure) - 1.0m depth: Located and around the root ball. Sub soil must be only to sides of pit adjacent to carefully handled so as to retain soil structure hard surfacing and positioned to Ensure sides of pit are NOT compacted, give the tree as much rooting volume as possible - adjust to suit glazed or smeared. Scarify sides of pit as necessary to alleviate compaction. specific tree location Tree container to be removed from rootball Existing subsoil. Not to be before planting compacted where it can be avoided Base of tree pit to be 600mm depth (Increase depth for larger sized tree roots). Base of tree pit be domed with highest TYPICAL CLEAR STEM TREE PLANTING DETAIL FOR TREES IN CONTAINERS

point at the centre as shown. Double stake fixing in soft landscape adjacent to Carriageway / footway - Not to Scale

GRASS AREAS

Turf shall accord with BS 3969: 1998, it shall be good quality meadow / cultivated, amenity turf free from weeds and be laid on even, prepared ground (as detailed above), during periods of suitable warm and moist weather conditions. Pre-turfing fertiliser shall be applied to manufacturer's recommendations and turf shall be laid in accordance with BS 4428: 1989.

Turf shall be laid with broken joints well-butted up, working from timber planks to avoid damaging turf when laying. Water as necessary to avoid shrinkage and achieve satisfactory establishment. Undertake good horticultural practice to ensure establishment of a healthy grass sward.

Grass Seeding

Areas of amenity grass shall be seeded with a general amenity grass mix as specified during the period March to May or September to October, during periods of moist, warm weather conditions without significant wind. Pre-seeding fertiliser shall be applied to manufacturer's recommendations. Seed shall be sown on even, prepared ground (as detailed above), at a rate of 35g/m2 or as specified, in two transverse operations. Lightly roll seed bed after sowing. Water as necessary to avoid shrinkage and achieve satisfactory establishment. Undertake good horticultural practice to ensure establishment of a healthy grass sward.

Wildflower Grassland Seeding

Areas of wildflower grassland shall be seeded with a wildflower grassland mix suitable for the soil type as specified, during the period March to May or September to October, during periods of suitable warm and moist weather conditions. Seed shall be sown on prepared ground (as detailed above), at a rate the rates specified on this sheet. Lightly roll seed bed after sowing. Water as necessary to avoid shrinkage and achieve satisfactory establishment. Undertake good horticultural practice to ensure establishment of a healthy wildflower grass sward.

AFTERCARE PERIOD

Regular Visits

During the specified Aftercare Period maintenance visits shall be carried out, at least monthly from April to September and twice during the dormant season to carry out the following operations to establish healthy growing plants / grass in weed free areas: watering, firming-up, removal of litter, pest and disease control, general pruning, checking guards, ties and stakes, weed control, grass cutting and autumn tidying. All arisings shall be carted away and the site shall be left clean and tidy at all times.

All planting and grass areas shall not be allowed to dry out and shall be kept well watered during the growing season, ensuring the soil is kept moist at all times but avoiding waterlogging.

During each August within the Aftercare Period an inspection shall be made and all plants that have died,

once the sward is sufficiently established.

recommended dose rate / or hand pull.

are missing, damaged or have failed to thrive, shall be noted and replaced in the following planting **Grass Cutting**

During the first and subsequent growing seasons amenity grass shall be kept at a height of 25mm to 50mm. Any bare patches are to be resown. Selective weed control shall be undertaken as necessary

Wildflower Grassland Cutting During the first growing season cut wildflower grassland every 2 months to a height of 50mm and in subsequent growing seasons cut to 50mm height during late March and late August / early September or as specified. Within established woodland wildflower / grass mixes to be cut as per manufacturer / suppliers specification. All arisings shall be collected and removed from the site to avoid smothering the sward and to reduce nutrient levels. Spot treat perennial weeds with Glyphosate at the manufacturer's

EMORSGATE SEED MIXES

Emorsgate EM8 Meadow Mixture for Wetlands

Name

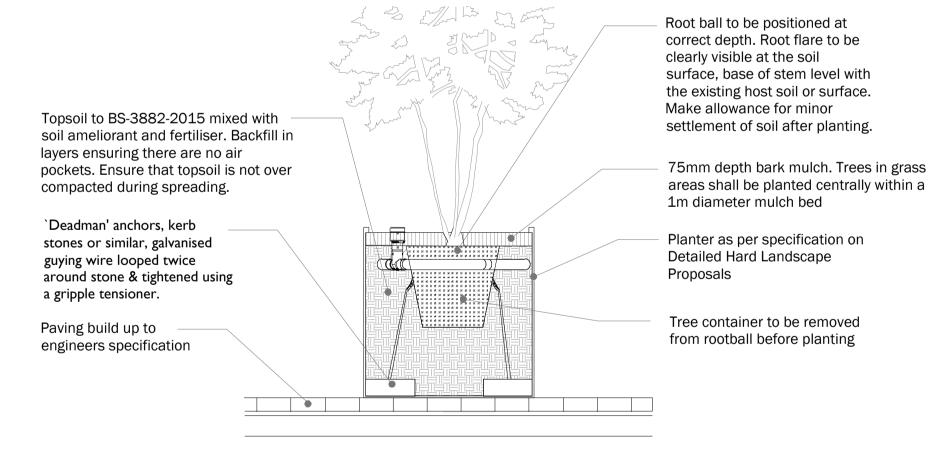
To be implemented to Emorsgate specification

0.5 Achillea millefolium 0.5 Achillea millefolium 0.2 Achillea ptarmica 1.5 Agrimonia eupatoria Betonica officinalis (Stachys officinalis) Arcitum minus 2.5 Centaurea nigra 2.5 Centaurea nigra Filipendula ulmaria 1.5 Centaurea scabiosa 1.5 Galium verum Daucus carota 0.4 Geum rivale Dipsacus fullonum 0.6 Leucanthemum vulgare Galium album (Galium mollugo) 0.8 Lotus pendunculatus 0.2 Geranium pratense Plantago lanceolata Leucanthemum vulgare 0.2 Primula veris Pastinaca sativa 1.5 Prunella vulgaris 0.4 Plantago lanceolata 2.5 Ranunculus acris 0.1 Pulicaria dysenterica 1.5 Rhinanthus minor Silene dioica 1.5 Rumex acetosa Torilis japonica Sanguisorba officinalis 0.5 Vicia cracca 0.2 Silene flos-cuculi (Lychnis flos-cuculi) 1.8 Vicia sativa ssp. segetalis 0.6 Succisa pratensis 20 0.5 Vicia cracca Grasses Name Alopecurus pratensis 20 Cynosurus cristatus Name 10 Agrostis capillaris Dactylis glomerata Alopecurus pratensis Deschampsia cespitosa Anthoxanthum odoratum 20 Festuca rubra Briza media Holcus lanatus Cynosurus cristatus Schedonorus arundinaceus (Festuca arundinacea) Deschampsia cespitosa 10 Schedonorus praensis (Festuca pratensis) 24 Festuca rubra Hordeum secalinum Schedonorus praensis (Festuca pratensis) Sowing rates kg/ha g/m2 kg/acre Sowing rates kg/ha kg/acre g/m2

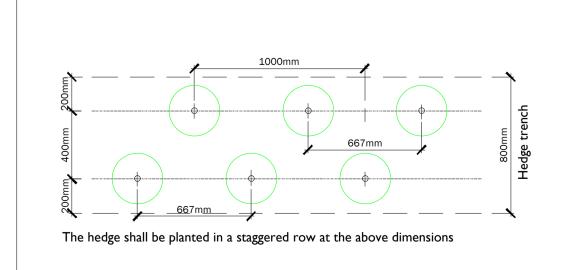
Emorsgate EM10 Tussock Mixture

Wildflowers

Name



TYPICAL TREE PLANTING DETAIL IN CONTAINER - Underground guy fixing - Not to Scale



HEDGE PLANTING DETAIL

This drawing is to be used in conjunction with LLA drawings 2209 01-08 only Description

> Title: | Landscape Specification and Details | Heyford Park Village Centre North Client: Dorchester Living Date: Scale: December 2018 NTS @ A1

Drawing No: | 1619 A13 08 T: +44 (0)1279 647044