

IMPLEMENTATION AND MAINTENANCE GUIDELINES

1.0 GENERAL

All plants shall conform to BS 3958 and be in accordance with the National Plant Specification. Supplying nurseries shall be registered under the NTA Nursery Certification Scheme. All plants shall be packed and transported in accordance with the Code of Practice for Plant Handling as produced by CPSE. Planting shall not be carried out when the ground is waterlogged, frostbound or during periods of cold drying winds. All bare root stock shall be root dipped in an approved water retaining polymer.

If the formation level is compacted it should be ripped through before topsoiling. Topsoil depths to be 450mm for shrub beds and 150mm for grass areas.

2.0 ORNAMENTAL SHRUBS AND TREES

Ground Preparation
Where necessary treat existing weeds with a glyphosate based herbicide and allow a suitable period as recommended by the manufacturer for the herbicide to take effect. A general purpose slow release fertiliser at the rate of 75g/m² and Tree Planting and Mulching Compost at the rate of 20litres/m² are to be incorporated into the top 150mm of topsoil during final cultivations. All extraneous matter such as plastic, wood, metal and baling twine greater than 50mm in any dimension shall be removed from site. Tree pits are to be excavated and the base broken up to a further 150mm with the sides well scarified to prevent crusting. All trees up to and including selected standards are to be supported with single 75mm diameter stakes. All rootball, container grown and trees over heavy standard size shall be double staked. Any feature trees semi mature in size to be secured with a below ground anchoring system (such as a deadman anchor). Stakes should be driven 500mm into undisturbed ground before planting the tree, taking care to avoid underground services and cables etc.

Planting
Shrubs and hedges are to be set out as shown on the drawing and pit planted into the prepared soil at the specified centres with minimal disturbance to the rootball and well firmed in. Trees are to be placed into the pits and backfilled with topsoil incorporating slow release fertilizer and Tree Planting and Mulching Compost as specified. Firm trees in well and secure with proprietary rubber tree ties and spacers.

Water in all trees and shrubs at the end of each day of planting.

Spread ornamental pine bark mulch to a depth of 75mm across all new planting areas, ensuring groundcover plants are not buried.

Maintenance
The landscape contractor shall maintain all areas of new planting for a period of 12 months following practical completion. All stock deemed to be dead, dying or diseased within the defects period shall be replaced by the contractor at his own cost.

The site is to be visited monthly throughout the year to undertake the following operations.
Weed clearance: All planting areas are to be kept weed free by hand weeding or herbicide treatment.
Litter clearance: All litter is to be removed from planting beds.
Watering: Planting areas are to be brought up to field capacity at each visit and each tree is to receive 10 gallons.
Check trees: All tree ties and stakes are to be checked and adjusted if too loose, too tight or if chaffing is occurring. Any broken stakes are to be replaced.
Composting pruning: Any damaged shoots/branches are to be pruned back to healthy wood. Plants are to be pruned in accordance with good horticultural practice to maintain healthy well-shaped specimens.

3.0 NATIVE SHRUB PLANTING

Ground Preparation
The extent of the planting area shall be set out using 38x38x1200mm timber stakes at each change in direction and at a maximum of 50m intervals.

Either for notch planting
All herbaceous material within the proposed planting area shall be sprayed out using an approved herbicide at least two weeks before planting and the ground shall be cultivated to a depth of 150mm.
or for pit planting
A 900mm diameter circle shall be sprayed out at each planting station using an approved herbicide at least two weeks before planting.

Planting
All bare rooted stock is to be root dipped in water retaining polymer. Proposed planting is to be planted on an informal grid. To avoid straight lines each planting station can be moved by up to 300mm in any direction.

Either a for shelter or for rabbit fence
a. All stock to be protected from rabbit damage using approved proprietary tree and shrub shelters, 900mm and 400mm high respectively, secured with stakes and ties as advised by the manufacturer.
b. All stock to be protected from rabbit damage by 900mm high rabbit fencing erected in accordance with the manufacturers recommendations.

Maintenance
Using approved herbicides a 900mm diameter circle centered on each planting station shall be kept weed free throughout the maintenance period.

Each Autumn after planting and until handover to the adopting authority, the contractor will prepare a list of all plants which are dead, dying or diseased and will replace these during the following planting season.

4.0 GRASS

Preparation
The area to be seeded shall be sprayed out with a glyphosate herbicide and cultivated to a depth of 100mm removing all weeds, debris and stones over 25mm diameter. The surface shall be raked to smooth flowing contours with a fine till, incorporating pre-seeding fertilizer at 70 g/m².

Turf
Turfing operations shall be in accordance with BS 4429.

Whole lawns shall be laid around the perimeter of the area to be turfed. The central areas shall be laid in rows with staggered joints, well butted together, working from planks positioned on turves already laid. The turf shall be watered on completion. Any unevenness shall be made good by lifting the turf and adjusting the levels. Should shrinkage occur, fine topsoil shall be brushed into the joints.

Seeding
Grass seed shall be sown in April during calm weather and not when the ground is frost bound or waterlogged. Seed shall be sown in two equal sowings in transverse directions at 25 g/m². After sowing the contractor shall lightly rake the seed into intimate contact with the soil. All seed mixes to be specified in accordance with those set out in the approved management plan.

Initial cut
When newly seeded areas reach 50mm they should be cut back to a height of 30mm and then cut twice annually in early Spring and late Summer. All arisings shall be removed or spread evenly across grassland. Any bare patches shall be made good at this time.

5.0 TOPSOIL

Existing Topsoil
Pre-planting herbicide application -
Apply by suitable spraying apparatus, an approved translocated systemic herbicide to the manufacturer's instructions and to 1997 Control of Pesticides Regulations and 2002 COSHH Regulations on all beds, except those which are both weed free and are to receive agricultural sheet mulch. Spray immediately if any weeds are present. If none are showing, but there may be a delay before starting, or the area is to be seeded, spray after one month following cultivation, to allow dormant weeds to emerge. All spraying shall be carried out by skilled and qualified operatives, using protective clothing, in suitable weather (no wind and any damage caused by spray drift, from incorrect usage or spillage, shall be rectified at the contractor's own cost. Repeat as necessary to ensure complete kill and rake of all dead material from site.

Carry out the following works to the existing topsoil on site to ensure it conforms to BS 3882:2015, being free from rocks larger than 50mm diameter, concrete, all roots, wire, brick, and have less than 20% clay. Allow for pre-application of herbicide as above. Fertilize with 100g per metre square of Max. Nutricore 180 slow release fertilizer, in accordance with the manufacturer's instructions. For beds less than 5 metres in width, fork over thoroughly or machine rotavate soil to a depth of 300mm, ensuring that the subgrade and topsoil are completely broken up and free draining, relieving any compaction. For beds greater than 5 metres in width, break up the subgrade and topsoil using a tractor mounted subsoiler or ripper at 500mm centres to a depth of 500mm, except where there are services, or within 10 metres of tree stems or 3 metres of existing hedges. Do not rip areas where roots greater than 10mm diameter are encountered.

Imported Topsoil
Any imported topsoil for making up ground, shall conform to BS 3882:2015, and be free from rocks (over 50mm diameter), concrete, roots, wire and brick, and have less than 20% clay.

6.0 WILDFLOWER AND GRASSLAND MIX

Preparation
Grass seed mixtures to be sourced from certified local provenance seed stock. Ground surface will be cleared of weed growth either removed by hand or through the application of an approved (glyphosate based herbicide) fall herbicides should only be handled by certified users and in accordance with the COSHH Regulations 2002). The ground will then be ploughed and raked to produce a medium till with debris and stones over 25mm diameter removed. The surface shall be raked to smooth flowing contours with a fine to medium till.

Seeding
Meadow and wildflower seed mixes shall be sown in either August - September or March - April during calm weather and not when the ground is frost bound or waterlogged. Seed shall be sown in two equal sowings in transverse directions at 4 or 5 g/m², according to supplier's recommendations. After sowing the contractor shall roll the seed into intimate contact with the soil with a ribbed Cambridge roller.

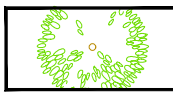
First year maintenance
All litter should be removed from areas prior to mowing. The following procedures should not be undertaken in adverse weather conditions or if ground conditions prevent the use of machinery without damage to the ground surface. Mow regularly throughout the first year of establishment to encourage root growth and reduce weed competition. All arisings shall be removed or deposited in an area designated by the Contracts Manager. Any bare patches shall be made good at this time.

Second and subsequent year maintenance
Management of subsequent years comprises a single Autumn cut in September or October to allow plants to set seed. Arisings shall be left for a minimum of 24 hours and a maximum of 7 days before being removed or relocated to an area identified by the Contracts Manager.

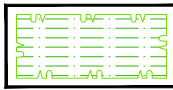
KEY

- Site boundary
- Existing trees and vegetation to be retained
Root protection areas indicated with amber line where known
- Existing trees and vegetation to be removed
- Soft Landscape Proposals
Refer to plant schedule for details.
- Turf to plot frontages
Detailed landscape proposals to plot frontages to be designed at later stage.
- Maintenance access gate
3.00m wide timber universal lockable gate supplied by Jacksons or similar approved.
- 1.8m security timber post and rail fencing
1.80m high timber post and rail fencing.
- Permanent water level

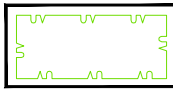
PLANT SCHEDULE



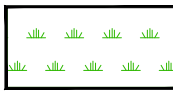
ABBR	SPECIES	COMMON NAME	SUPPLY	HEIGHT (CM)	GIRTH	QTY (No.)
ACCEAME	Acer campestre	'Elsrijk'	Field Maple	'Elsrijk'	EHStd 425-600cm 14-16cm	3 -
ALNGL	Alnus glutinosa	Common alder	EHStd 425-600cm 14-16cm	3 -		
BETPE	Betula pendula	Common Silver Birch	EHStd 425-600cm 14-16cm	7 -		
QUERO	Quercus robur	Common Oak	EHStd 425-600cm 14-16cm	2 -		
SORAU	Sorbus aucuparia	European mountain ash	EHStd 425-600cm 14-16cm	3 -		
Total : 24 -						



MIX NAME	ABBR	SPECIES	SUPPLY	HEIGHT (CM)	HABIT	CENTRES (M)	MIX %	QTY (No.)
NATIVE SHRUB MIX D	CORSA	Cornus sanguinea	T1+1	60-80cm	Transplant 2Ctr	25%	13 -	
NATIVE SHRUB MIX D	EUGERS	Euonymus europaeus	T1+1	60-80cm	Transplant 2Ctr	5%	4 -	
NATIVE SHRUB MIX D	LIGVU	Ligustrum vulgare	T1+1	60-80cm	Transplant 2Ctr	10%	7 -	
NATIVE SHRUB MIX D	ROSCA	Rosa canina	T1+1	60-80cm	Transplant 2Ctr	20%	12 -	
NATIVE SHRUB MIX D	VIBOP	Viburnum opulus	T1+1	60-80cm	Transplant 2Ctr	40%	21 -	



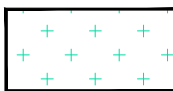
MIX NAME	ABBR	SPECIES	SUPPLY	HABIT	CENTRES (M)	MIX %	QTY (No.)
POND MIX A	CARAC	Carex acutiformis	40-50m	Plug Plug Plant	10/m ²	15%	105 -
POND MIX A	IRIPS	Iris pseudacorus	40-50m	Plug Plug Plant	10/m ²	15%	105 -
POND MIX A	JUNEF	Juncus effusus	40-50m	Plug Plug Plant	10/m ²	20%	140 -
POND MIX A	LYTSA	Lythrum salicaria	40-50m	Plug Plug Plant	10/m ²	20%	140 -
POND MIX A	SCISV	Scirpus sylvaticus	40-50m	Plug Plug Plant	10/m ²	15%	105 -
POND MIX A	STAPA	Stachys palustris	40-50m	Plug Plug Plant	10/m ²	15%	105 -



MIX NAME	SEED MIX	SUPPLIER	AREA	DENSITY
A22 (Low Maintenance)	Amenity	Germinal GB Limited	1029.2237m ²	50g/m ²



MIX NAME	SEED MIX	SUPPLIER	AREA	DENSITY
EM3 - Special Gen. Purpose Meadow	Emorsgate	Seeds	2720.2499m ²	4g/m ²



MIX NAME	SEED MIX	SUPPLIER	AREA	DENSITY
EM8 - Meadow Mix for Wetlands	Emorsgate	Seeds	819.6468m ²	4g/m ²

NOTES
All trees, feature shrubs, climbers, shrubs and hedgerows to be planted in accordance with the implementation and maintenance guidelines. All landscape proposals must be referred to the Structural Engineer during foundation design. No tree, feature shrub, climber, shrub and hedgerow species, size or location should be altered without prior approval from the Landscape Architect.

Plant marginal planting to be sourced from certified local provenance plant stock.
Sowing operations to be carried out in accordance with the implementation and maintenance guidelines.
All planting to be in accordance with the implementation and maintenance guidelines.
No species, variety, size or position to be amended without the Landscape Architects prior approval.
Before trees are planted, the Landscape Contractor shall ascertain the location of drains from the site manager, and shall if necessary make minor adjustments to tree positions to ensure that they are planted at least 1.5m from drains. They should however be planted no closer to houses/garages than is shown on the drawing, and if shown located in shrub beds, the shape of the latter should be adjusted if necessary to accommodate the revised tree position.
All planting must be matched to accordance with the implementation and maintenance guidelines.
If planting is required outside the October-March season, bare root shrubs will be replaced by 3L pot grown plants, and trees will be replaced by a containerised equivalent to be approved by the project landscape architect.



Great Chatwell, Poultry Farm
Detailed Attenuation Pond & Swale Soft Landscape Proposals

Drawing Ref: P19-1042_06-A
Client: AMBER REI

Date : 24/08/2020
Drawn by : JZA
Checked by : WM
Scale : 1 : 500 @ A1

