

Planting Schedule

Trees

Plan Ref	Species	Girth (cm)	Height (cm)	Root Zone	Specification	Quantity
BpD	Betula pendula Dalecarlica	8-10cm	250-300	CG 25 Litres	Standard	1

All Standard trees and above to be Clear Stemmed to 1.8m

Native Hedge Planting - Planted in random groups of 5-15 No. as a double staggered row at 500mm centres with 500mm between rows. 4/ linear metre

Plan Ref	Species	% Mix	Form	Height (cm)	Specification	Quantity
Ac	Acer campestre (Field Maple)	10	Transplant	60-80	BR 1 + 1	29
Cm	Crataegus monogyna (Hawthorn)	40	Transplant	60-80	BR 1 + 1	115
Cs	Cornus sanguinea (Dogwood)	20	Branched 3 Brks	60-80	BR 1 + 2	58
Cav	Corylus avellana (Hazel)	15	Branched 2 Brks	40-60	BR 1 + 1	43
Iaq	Ilex aquifolium (Holly)	10	Bushy 3 Brks	40-60	3 L Bushy 3 Brks	29
Vo	Viburnum opulus (Guelder Rose)	5	Branched 3 Brks	60-80	BR 1 + 2	15

Note: Suitable Root Barrier to be installed adjacent surface water attenuation feature to prevent root ingress. Attenuation tank to be installed at sufficient depth to prevent root damage from adjacent proposed native hedgerow

Ornamental Hedge Planting

Plan ref	Species	Form	Height (cm)	Root Zone	Specification	Spacing	Quantity
Plu	Prunus lusitanica	Bushy 4 Brks	40-60	3L Pot	Double staggered row	500mm ctrs	88

Ornamental Shrub Planting

Plan ref	Species	Form	Height (cm)	Root Zone	Specification	Density / m2	Quantity
BtH	Berberis thunbergii Rose Glow	Branched 4 Brks	30-40	3L Pot	C	3	15
CsF	Cornus stolonifera Flaviramea	Branched 4 Brks	60-80	3L Pot	C - Planted in a single row	2	17
CaE	Cornus alb Elegantissima	Branched 4 Brks	60-80	3L Pot	C	2	20
Lp	Lonicer pileata	Bushy 6 Brks	30-40	3L Pot	C	5	135
PlOL	Prunus laurocerasus Otto Luyken	Bushy 3 Brks	30-40	3L Pot	C	3	53
ScH	Symphoricarpos chenaultii Hancock	Branched 5 Brks	40-60	3L Pot	C	3	55

Specimen Shrub Planting

Plan ref	Species	Form	Height (cm)	Root Zone	Specification	Density	Quantity
Al m(s)	Amelanchier lamarckii	Branched 6 Brks	80-100	10-12L Pot	C	As shown	2

Planted in groups as shown

As indicated on plan grass area adjacent Proposed Native hedgerow to be sown with Emorsgate Flowering Lawn Mixture Mixture (EL1) at a sowing rate of 4g/m2

Emorsgate Flowering Lawn Mixture - EL1

%	Species
Wildflowers 10	
1	Achillea millefolium - Yarrow
1	Anthyllis vulneraria - Kidney Vetch
0.4	Betonica offivcinalis - Betony
1.5	Centaurea nigra - Common Knapweed
0.4	Galium album Hedge Bedstraw
1.5	Galium verum - Lady's Bedstraw
0.4	Knautia arvensis - Field Scabious
0.5	Leontodon hispidus - Rough Hawkbit
1	Leucanthemum vulgare - Oxeye Daisy
1	Medicago lupulina - Black Medic
0.4	Plantago lanceolata - Ribwort Plantain
2	Plantago media - Hoary Plantain
2	Primula veris - Cowslip
0.4	Prunella vulgaris - Selfheal
0.4	Ranunculus acris - Meadow Buttercup
1.6	Ranunculus bulbosus - Bulbous Buttercup
4	Trifolium repens - White Clover (ag)
Grasses 90	
8	Agrostis capillaris - Common Bent
28	Cynosurus cristatus - Crested Dogtail
24	Festuca rubra - Red Fescue
4	Phleum bertolonii - Smaller Cats-tail
16	Poa pratensis - Smoothstalked Meadow Grass

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Summary Landscape Specification

EXISTING TREES AND SHRUBS

Where any existing trees and or hedgerows and shrubs affecting the proposed development are to be retained it is recommended that such retention is in accordance with and subject to the recommendations of a full arboricultural condition survey and inspection for safety.

Any surgery required shall be in accordance with BS 3998 (2010) 'Tree Work - Recommendations', shall comply with any existing T.P.O. / Conservation Area requirements and shall require approval of the Landscape Architect and as appropriate the relevant Local Planning Authority prior to undertaken any works.

Avoid damage to branches, trunks and roots of trees. All existing trees and hedges to be retained are subject to BS 5837 (2012) 'Trees in Relation to design, Demolition and Construction - Recommendations' and must be fully fenced off, prior to the commencement of any works, in accordance with Figures 2 & 3 (p.20-21) at the full extent of the root protection area, as determined by Section 4.6 (P.10-11) and Annex D (P. 40).

No storage of materials, disposal of rubbish, site fires, spillage of oil and chemicals, ground compaction, excavation, mechanical cultivation or changes in level shall be carried out within existing tree/hedge canopies or fenced root protection areas.

PLANTING

All plants and planting shall comply with the requirements of all current/relevant British Standard specifications including BS 3936: Part 1 (1992), Part 2 (1990), Part 4 (2007), Part 7 (1989), Part 9 (1998), Part 10 (1990) unless such specifications contradict Biodiversity objectives, BS 4043 (1989) where applicable and BS4428 (1989). All plants to be supplied in accordance with the plant schedule. Tree Planting will be in accordance with: BS 8545:2014 Trees: from nursery to independence in the landscape - Recommendations. Any plant material planted outside the recognised planting season (Nov-Feb) is to be containerised stock and supplied at the sizes specified. Planting during hard frosts should be avoided. All plants shall conform be in accordance with the National Plant Specification. Supplying nurseries shall be Registered under the HTA Nursery Certification Scheme. All plants shall be packed and transported in accordance with the Code of Practice for Plant Handling as produced by CPSE. As far as practically possible to do so, all stock should be from the relevant provenance zone. Any reputable nursery can advise on provenance. Bare root transplant stock will be adequate for this proposal. Species, planting percentages, stock sizes and quantities of material are shown on the planting plan. During periods of storage bare rooted plants should be firmly heeled in to a prepared trench spreading the roots and covering with peat or topsoil.

Note: Due to the national concerns regarding Chalara dieback of ash (Chalara fraxinea) and the import and movement restrictions of this species, ash trees will be excluded as a species choice within the planting scheme.

No plants are to be planted in locations that will cause obstruction and in particular in front of the gas / electric meter boxes to allow easy access. All Biodiversity Net Gain provision to be in accordance with BS 8683:2021: Process for Designing and Implementing Biodiversity Net Gain Specification.

TREE AND HEDGEROW PLANTING

All trees are to be planted as shown ensuring a minimum of 5 metres from built form and in particular but not exclusively dwellings and boundary walls and 3 metres from drainage and utility services and outside any easements and exclusion zones associated with services, pumping stations and utilities. Where planting is immediately adjacent to utility easements approval is to be sought from the relevant utility body to all proposed tree, hedge and shrub planting prior to implementation. Where necessary, root barriers are to be installed (supplier Greenleaf or similar approved), in accordance with Structural Engineers and manufacturers recommendations. Allow for the use of container stock during the period 1 April to 31 October, and field grown stock from 1 November to 31 March. Trees should be planted at the original root collar depth with allowance made for soil settlement and should be positioned centrally within the pit, the stem in an upright position.

TOPSOIL REQUIREMENTS

To BS 3882 (2015) and as qualified by any site specific project contract specification and or Employers requirements. All areas shall be cultivated to a minimum depth of 150mm. All weed, rubbish and stones over 50mm gauge shall be removed. Earth to be rolled as required and raked in two directions as directed by further sections in this specification. It is the Contractors responsibility to ensure that all underground services have been located and identified in advance of tree pit excavation. Root barriers are to be provided as directed by the project engineer.

Shrub/Hedge & Native Hedge planting beds	- 450mm
Transplants pits	- 300 x 300 mm depth
Bush, Whip, small feathered tree pits	- 600 x 250mm depth
Standard/large feathered/Select Standard tree pits	- 900 x 600mm depth
Turfed Areas/Amenity Grass Seed Areas	- 150mm
Wildflower Grass Areas	- No topsoil necessary

Where necessary excavate any compacted ground or areas of hardstanding that may conflict with the proposed planting to a minimum depth of 450mm, break up base to a depth of 150mm and backfill with topsoil. Increase tree pit dimensions to ensure that tree pits are at least 75mm deeper and 150mm wider than the rootball/root spread. Break up bottom of pits to a depth of 150mm and dome to the centre of the pit. Compacted glazed sides of pits should be roughened to allow root penetration. Where the soil environment is in such a condition that would limit or restrict good tree growth topsoil should be imported into the site and spread and cultivated into the planting site. The topsoil specification should be in accordance with BS 3882:2015 Specification for Top Soil.

Any topsoil, be it existing or imported to be good quality loam, to be free from any stones greater than 50mm or pernicious or deleterious matter. Finished topsoil levels to be 25mm above adjoining paved areas and a minimum of 150mm below DPC of the adjacent building. Any shrinkage/settlement during the defects liability period to be rectified by the contractor. Full analysis of both existing and any imported topsoil is recommended prior to use to identify nutrient properties and content that may be detrimental to and inhibit establishment and growth. All landscaped areas are to be suitably rotavated to loosen subsoil to 300 mm deep at 600 mm centres in two directions and cleared of rubbish and builder's debris. Topsoil is to have adequate time to settle prior to the laying of turf. If not, gardens are to be rolled to ensure a suitable surface for laying.

TOPSOIL REQUIREMENTS

Applied to all newly planted areas, to manufacturers recommendations where appropriate:

1) Incorporate 75mm depth of soil conditioner into topsoil during cultivation to all ornamental shrub beds;
2) Incorporate Alginure Soil Improver or similar approved. 1.5kg/m3 to tree pit backfill and 75g/m2 to ornamental shrub areas;
3) Incorporate Enmag CRF 11-21-9 granular fertilizer or similar approved 5-60gms/pit backfill and 25-125gms to structure/ornamental planting beds;
4) Watering - as appropriate supply minimum 54 litres/tree and 4.5 litres/shrub at the time of planting. Refer to maintenance section for post planting requirements;
5) Weed Control - Only where absolutely necessary apply approved herbicide to control weed growth to areas of proposed planting to kill off any existing grass sward to reduce competition to encourage early plant establishment. Spot treat noxious pernicious weeds where appropriate and avoid blanket treatment and allow period of time to elapse as recommended by the manufacturer before further cultivation. Repeat if only absolutely necessary to prevent regrowth. Lightly fork over all individual planting stations before planting in accordance with the above pit requirements.
6) Mulch - lightly fork over planted areas before applying a 75mm depth of 50-100mm grade bark mulch to all proposed ornamental/hedge planting beds, in accordance with horticultural best practice guidelines. Bark to consist of predominantly matured British Pine bark with a nominal particle size distribution of 5-35mm with 0% dust and fines and less than 5% wood content. The product shall be pest, disease and weed free and not have been treated with any additives. The product shall have been tested in accordance with the requirements of BS 4790:1987, for fire resistance. NB Watering to be carried out prior to the application of bark mulch.
7) Where instructed and part of Employers Requirements include a weed control membrane to ornamental planting beds and hedging with weed control membrane mats applied to native structure planting. Maintain in a weed free state using hand weeding methods to avoid the use of herbicides.

PLANT MATERIAL TREATMENT

NB All to be British grown stock and fully hardened off.

Root Dip - Proprietary Root Dip applied to all bare rooted stock (1) at time of lifting at the nursery and (2) prior to planting.

Anti-Desiccant - At the discretion of the supplier/nursery proprietary anti desiccant to be applied to foliage of all containerised/rootballed material in leaf, specimen conifers and evergreens etc. (1) prior to transportation and (2) during any delay in planting.

Pruning - Allow for pruning all deciduous trees and shrubs by 1/3rd following planting at Landscape Architects direction or as instructed in the planting schedule.

Tree Stakes - Stakes to be vacuum pressure treated round, smooth and peeled Larch or Chestnut in accordance with the following requirements.

TREE STAKES, TIES & GUARDS

Trees planted within grassed areas to be planted with appropriate non plastic conical strimmer guards. Stakes to be vacuum/pressure treated with TANALITH preservative to comply with the Treatment Code (TE/GF6), softwood, round, peeled, straight, free of projections and pointed at one end. Ties to be environmentally friendly NATURETIE by Toms Tree Ties or similar approved. Minimum length, number and thickness for bare root stock to be determined as follows:

Tree Type	Min dia	Overall Hght	Hght above grd	No. stakes	No. ties
Std Trees	75mm	1.5m	0.6	1	1

3.5/2.5m

Native hedge and structure planting to be protected with suitable bio degradable spiral rabbit guards and support cane/timber tree stake. Allowance to be made for evergreen and bushy species to be protected with biodegradable mesh shrub guards and 750 x 25 x 25 timber stake and natural ties.

GRASS AREAS

GENERAL PURPOSE MEADOW MIXTURE TURF TO FRONT, REAR AND SIDE GARDENS (Either)

General Purpose Meadow Mixture Turf from an approved source. Break up any compacted topsoil to a full depth. Reduce top 100mm of all topsoil to a tilth suitable for blade grading (10mm down particles). Remove undesirable material brought to the surface including stones and clay balls, roots, grass tussocks and foreign matter. When topsoil is reasonably dry and workable grade to smooth, flowing contours removing all minor hollows and ridges. Cultivate soil to a full depth and break up any compacted topsoil. Unless otherwise stated finished levels after settlement are to be 25mm above adjoining paving, kerbs and drainage covers. Control any perennial pernicious weeds. Only apply approved herbicide to control weed growth where areas have become overgrown and only if absolutely necessary to avoid the spread of noxious weeds. Avoid blanket treatment and spot treat pernicious perennial weeds and allow period of time to elapse as recommended by the manufacturer before further cultivation. Reduce top 25mm topsoil to a fine tilth by further cultivation. Remove stones exceeding 50mm in any dimension. Lay turf with broken joints well butted up, working from planks laid on previously laid turves, during appropriate season and weather conditions. Adjust levels by raking out or filling with fine soil under the turves. Consolidate by lightly and evenly firming with wooden beaters as laying proceeds. Do not use rollers. Dress turf with fine topsoil and brush in to fill joints. Thoroughly water completed turf within 24 hours of laying.

When grass is between 40 and 75mm high remove debris, litter and all stones and clay balls larger than 40mm in any dimension and roll with a light roller. About 48 hours later cut to approximately 35mm high. Remove arisings. Continue to mow all areas on a regular basis for amenity value purposes to produce a short turf and lawn. After twelve months the sward should be well established. As an ongoing process, observe and remove any pernicious weeds which invade the area. Turf to be established prior to any agreed handovers.

GENERAL PURPOSE MEADOW MIXTURE (Emorsgate EG1 or similar approved) GRASS SEED TO FRONT, REAR AND SIDE GARDENS

Break up any compacted soil to a full depth. Reduce top 100mm of all soil to a tilth suitable for blade grading (10mm down particles). Remove undesirable material brought to the surface including stones and clay balls, roots, grass tussocks and foreign matter. When soil is reasonably dry and workable grade to smooth, flowing contours with falls for adequate drainage, removing all minor hollows and ridges. Unless otherwise stated finished levels after settlement are to be 25mm above adjoining paving, kerbs and drainage covers. Control any perennial pernicious weeds. Only apply approved herbicide to control weed growth where areas have become overgrown and only if absolutely necessary to avoid the spread of noxious weeds. Avoid blanket treatment and spot treat pernicious perennial weeds and allow period of time to elapse as recommended by the manufacturer before further cultivation. Once complete carry out final cultivation to reduce top 25mm to a fine tilth. Rake to a true, even, lightly firmed surface removing all stones and clay balls more than 50mm in any dimension.

Sow seed during the period August to mid October. For best results sow the grass seed in the autumn. Bulk up the seed with an inert carrier such as sand to make distribution easier. The seed must be surface sown and can be applied by machine or broadcast by hand and spread evenly at the recommended rates applied in two equal sowings in transverse directions. Lightly harrow or rake. Where soil has not been allowed to lie fallow control perennial pernicious weeds appropriately after sowing avoiding wherever possible the use of herbicides.

Rolling is not usually necessary. In the first year of management after sowing mow as needed, aiming to keep the grass short (30-50mm). Continue mowing through winter and early spring as needed and appropriate. Continue to mow all areas on a regular basis for amenity value purposes to produce a short turf and lawn. After twelve months the sward should be well established. As an ongoing process, observe and remove any weeds which invade the area. Over time, some species within the mixture may become more dominant due to environmental factors and natural selection. To encourage diversity, simply reduce the number of dominant plants in order to restore the balance. In some areas with more dominant grasses, it may be necessary to overseed occasionally.

Where possible and for the purpose of benefitting wildlife consider stopping mowing in April and leave until July/August at which time the sowing can be managed as you would established grassland.

EL1 FLOWERING LAWN MIXTURE (Emorsgate EL1 or similar approved) GRASS AND WILDFLOWER SEED to Other Neutral Grassland Area adjacent hedge along northern boundary.

Description

Mixture EL1 contains slow growing grasses with a selection of wild flowers that respond well to regular short mowing. EL1 is a complete mix composed of 20% wild flowers and 80% slow growing grasses (by weight). For quicker establishment of grass cover EL1 may be sown with an additional 10g/m2 EG1 or lawn mixtures EG21 or EG22. Higher grass sowing rates will however reduce the time and space available for flower establishment, especially in good growing conditions.

Ground Preparation

Endeavour to select ground that is not highly fertile and does not have a problem with perennial weeds. Good preparation is essential to success so aim to control weeds and produce a good quality seed bed before sowing. To prepare a seed bed first remove weeds using repeated cultivation. Then plough or dig to bury the surface vegetation, harrow or rake to produce a medium tilth, and roll or tread to produce a level firm surface.

Sowing

Seed is best sown in the autumn or spring but can be sown at other times of the year if there is sufficient warmth and moisture. The seed must be surface sown and can be applied by machine or broadcast by hand. To get an even distribution and avoid running out, divide the seed into two or more parts and sow in overlapping sections. Do not incorporate or cover the seed, but firm in with a roll, or by treading, to give good soil/seed contact.

First Year Management

The wildflower and grass species in this mix are perennial; they will be slow to germinate and grow and will not usually flower in their first growing season. There will often be a flush of annual weeds from the soil in the first growing season. This annual weed growth is easily controlled by repeated mowing. Mow newly sown flowering lawns regularly (every 7 -10 days during growing season) throughout the first year of establishment. Cut to a height of 40-60mm, removing cuttings if dense. This will gradually develop a good sward structure, help maintain balance between faster growing grasses and slower developing wildflowers, and control annual weeds. Dig out any residual perennial weeds such as docks.

Management Once Established

Mow regularly as a lawn but not too short (25-40mm). To permit flowering, mowing can be relaxed from late June. Cut again when the sward gets untidy (after 4-8 weeks). Mowing may be suspended earlier in the year to allow cowslips to flower. Heavy quantities of cuttings should be collected and removed from site.

PROTECTIVE FENCING

The contractor shall maintain any tree protective fencing to existing hedgerows until all the site works are completed. The contractor will then remove the fencing and reinstate the ground. The fencing will remain the property of the contractor. Within the area so fenced, the existing ground level shall be neither raised nor lowered in the vicinity of existing trees, all excavations shall then be carried out by hand. The Local Planning Authority shall be advised in writing when the protective fencing has been erected so that it can be checked on site before development commences and will then be maintained during the period of construction.

MAINTENANCE

The Contractor up until handover is to cut, maintain and water all landscaping, including making good depressions in turf, shrinkage over trenches, etc. up to the issue of the Certificate of Practical Completion. Regular visits to maintain all planted areas in a weed and litter free condition using hand weeding methods. Where pernicious perennial weeds persist spot treat with appropriate approved herbicides applied to manufacturers recommendations. The widespread blanket use of herbicides is not permitted. Maintenance to include watering, pruning, pest and disease control and re-mulching as required. Amenity Grass areas are to be mowed at regular intervals during the growing season. Cut grass areas to ensure the height of growth does not exceed 75mm at any time. Cut as and when necessary to a height of 35mm and remove all arisings. Before each cut remove all litter and debris. At the time of each cut trim all grass edges and remove arisings. Ensure sufficient water is provided to maintain healthy growth unless water restrictions are in place. Wildflower Meadow grass areas to Swales and BNG Creation Area is to be managed as described previously.

Hedge planting areas shall be maintained as non-competitive weed free environment using hand weeding methods as appropriate to aid establishment and prevent competition. Persistent weeds and unwanted scrub shall be spot treated as necessary with an appropriate herbicide. The blanket use of herbicides is not permitted. Watering shall be carried out as necessary to maintain healthy growth subject to any statutory restrictions.

Watering to tree planting - The soil surrounding Standard tree stock should be inspected by appropriate personnel twice a week in the first growing season (Mar - Oct) following planting and watered as necessary, unless prevented by water restrictions, to ensure field capacity to allow establishment of the stock. Such inspections to be reduced to once weekly in years 2-3.

The Contractor shall take up and replace any shrub that has died or is not developing full foliage through its branches within 12 months of planting at no additional cost.

SAFETY PRECAUTIONS

The landscape contractor is to take all safety precautions to prevent any injury to any persons. They shall comply with the requirements of the current Health and Safety at Work Act and current Construction, Design and Management Regulations.

The landscape contractor shall notify the Landscape Architect immediately of any pernicious/notifiable weeds identified on the site and shall take all reasonable precautions to prevent the spread of such weeds.

Landscape Key

Individual Tree Planting

EL1 Flowering Lawn Mixture

General Purpose Amenity Grass (turf or seed)

Ornamental Shrub Planting

Ornamental Hedge Planting

Native Hedge Planting

Specimen Shrub Planting

Lighting Key

Bollard light

Up/ down wall light

Bulkhead light

Boundary treatments

Brick wall with timber fence (overall height 1.8m)

1.8m high close boarded fence

2m high acoustic fence

Notes

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Dimensions
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CDM 2015
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Rev	By	Description	Date
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Current revision checked by: -

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Client
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Project
Land off Windmill Lane
Gosberton Risegate

Drawing
Proposed Planting Plan

Scale @ A1	Date
1: 250	08/08/24
Drawn By	**Checked By**
WW	-

Job Number	Status	Purpose of Issue
1443-4	CC	Condition Compliance

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