

Detailed Planting Schedule

Trees

Plan ref	Species	Girth (cm)	Height (cm)	Root Zone	Specification	Quantity
Ac	Acer campestre	10-12cm	300-350	2 X BR	Select Standard	4
AcE	Acer campestre Elsrijk	12-14 cm	350-425	3 X RB	Heavy Standard	4
BpD	Betula pendula Dalecarlica	10-12cm	300-350	CG 75 Litres	Select Standard	7
CbFF	Carpinus betlus Frans Fontaine	14-16cm	425-600	3 X RB	Extra Heavy Standard	2
Pav	Prunus avium	10-12cm	300-350	2 X BR	Select Standard	4
PcC	Pryrus calleryana Chanticleer	12-14 cm	350-425	3 X RB	Heavy Standard	8
Qr	Quercus robur	8-10 cm	250-300	2 X RB	Standard	2
Tcor	Tilia cordata	14-16cm	425-600	3 X RB	Extra Heavy Standard	5

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

Tree locations subject to detailed drainage and utility layout (refer to Summary Specification)

Northern Boundary Native Shrub Mix Buffer Planting - Planted at 1.0m Ctrs

Plan ref	Species and % mix	% Mix	Form	Height (cm)	Specification	Spacing	Quantity
Ac	Acer campestre	10	Transplant	60-80	BR 1 + 1	1m ctrs	24
Cm	Crataegus monogyna	30	Transplant	60-80	BR 1 + 1	1m ctrs	71
Cs	Cornus sanguinea	15	Branched 3 Brks	60-80	BR 1 + 2	1m ctrs	35
Cav	Corylus avellana	10	Branched 2 Brks	40-60	BR 1 + 1	1m ctrs	25
Iaq	Ilex aquifolium	5	Bushy 3 Brks	40-60	3L pot Bushy 3 Brks	1m ctrs	14
Psp	Prunus Spinosa	20	Branched 2 Brks	60-80	BR 1 + 1	1m ctrs	48
Rc	Rosa canina	5	Branched	40-50	BR 1 + 0	1m ctrs	13
Vo	Viburnum opulus	5	Branched 3 Brks	60-80	BR 1 + 2	1m ctrs	13

Ornamental Hedge Planting

Plan ref	Species	Form	Height (cm)	Root Zone	Specification	Spacing	Quantity
Cb	Carbinus betulus	1+1 transplant	80-100	BR	Double staggered row	500mm ctrs	240
Pl	Prunus lusitanica	Bushy 4 Brks	40-60	3L Pot	Single row	500mm ctrs	169

Note: Carpinus betulus to be planted in double staggered rows at 500mm centres, 500mmbetween rows, 4/linear metre

Ornamental Shrub Planting

Plan ref	Species	Form	Height (cm)	Root Zone	Specification	Spacing	Quantity
Alm	Amelanchier lamarckii	Branched 3 Brks	40-50	2L Pot	C	2/m2	57
BtH	Berberis thunbergii Harlequin	Branched 4Brks	30-40	3lL Pot	C	4/m2	82
BS	Brachyglottis Sunshine	Branched 4 Brks	30-40	3L Pot	C	4/m2	55
CaE	Cornus alba Elegantissima	Branched 4 Brks	40-60	3L Pot	C	2/m2	78
CsF	Cornus stolonifera Flaviramea	Branched 4 Brks	60-80	3L Pot	C	2/m2	105
Cm	Cotoneaster microphyllus	Bushy 3 Brks	30-40	3L Pot	C	5/m2	54
Cf	Cotoneatser franchetii	Branched 4 Brks	40-60	3L Pot	C	2/m2	6
Epm	Elaeagnus pungens maculata	Branched 3 Brks	30-40	3L Pot	C	3/m2	23
EfSQ	Euonymus fortunel Silver Queen	Busy 7 Brks	20-30	3L Pot	C	5/m2	18
Hr	Hebe rakiensis	Bushy 5 Brks	20-30	3L Pot	C	5/m2	26
HH	Hypericum Hidcote	Bushy 5 Brks	30-40	3L Pot	C	4/m2	37
Lv	Lavandula vera	Bushy 5 Brks	20-30	3L Pot	C	7/m2	45
Lp	Lonicer pileata	Bushy 6 Brks	30-40	3L Pot	C	5/m2	101
PE	Potentilla fruticosa Elizabeth	Bushy 4 Brks	30-40	3L Pot	C	5/m2	23
PIOL	Prunus laurocerasus Otto Luyken	Bushy 3 Brks	30-40	3L Pot	C	3/m2	70
RrA	Rosa rugosa Alba	Branched 3 Brks	40-60	3L Pot	C	3/m2	4
SGF	Spiraea Goldflame	Bushy 6 Brks	30-40	3 L Pot	C	5/m2	55
SnS	Spiraea nipponica Snowmound	Branched 5 Brks	40-60	3L Pot	C	4/m2	30
ScH	Symphoricarpos chenaultii Hancock	Branched 5 Brks	40-60	3L Pot	C	3/m2	40
Vd	Viburnum davidii	Bushy 3 Brks	20-30	3L Pot	C	4/m2	26
Vm	Vinca major	Vegetative	NA	3L Pot	C	7/m2	42

Specimen Shrub Planting

Plan ref	Species	Form	Height (cm)	Root Zone	Specification	Spacing	Quantity
Al (s)	Amelanchier lamarckii	2 X Light Standard	250-300	RB	RB	As shown	5
BdBK (s)	Buddleja davidii Black Knight	Branched 7 Brks	80-100	10-12L Pot	C	As shown	1
Epm (s)	Elaeagnus pungens maculata	Branched 5 Brks	40-60	10-12L Pot	C	As shown	6
MxC (S)	Mahonia x Charity	Bushy 3 Brks	60-80	10-12L Pot	C	As shown	30
PcT (S)	Phormium cookianum Tricolor	Triple Crown	NA	10-12L Pot	C	As shown	3
RtL (s)	Rhus typhina Lacinata	Several Shoots	100-120	10-12L Pot	C	As shown	2

Planted in groups as shown

Climbers and Wall Planting

Plan ref	Species	Form	Height (cm)	Root Zone	Specification	Spacing	Quantity
POG	Pyracantha Orange Glow	Leaders & Laterals	60-80	3L Pot	C	As shown	8

Amenity areas to be sown with Emorsgate Seeds EL1 mix (flowering lawn mix) or similar approved sown at 4gms/m2

Wildflower Grassland areas to be sown with Emorsgate Seeds EM1 mix (Basic All Purpose Meadow mix) or similar approved sown at 4grms/m2

Wildflower Meadow Mixture for Seasonal Wet Areas (EM8) or similar approved sown at 4gms/m2

(www.wildseed.co.uk - enquiries@emorsgateseeds.com)

Tel: (01553) 829028

Summery Landscape Specification

EXISTING TREES AND SHRUBS

Where existing trees and shrubs are to be retained it is recommended that they should be subject to a full arboricultural 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. requirements and shall require prior approval of the Landscape Architect and as appropriate the relevant Local Planning Authority.

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 should 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 or changes in level shall be carried out within existing tree/hedge canopies.

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) and Part 4 (2007) and BS 4043 (1989) where Applicable and BS 4428 (1989). All plants to be supplied in accordance with the plant schedule. Any plant material planted outside the recognised planting season (Nov-Feb) is to be containerised stock and supplied at the sizes specified.

TREE PLANTING

A suitable method of foundation, as recommended by a structural engineer and allowing for existing ground conditions is to be provided to accommodate the proposed tree planting. All trees are to be planted as shown ensuring a minimum of 5 metres from buildings and 3 metres from drainage and utility services. Where necessary, root barriers are to be installed (supplier Greenleaf or similar approved), as recommended by the Structural Engineer. 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.

TOPSOIL REQUIREMENTS

To BS 3882 (2015) and as qualified by any site specific project contract specification. 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..

Shrub/hedges/structure planting beds	- 450mm
Standard and Select Standard tree pits	- 900 x 750mm depth
Heavy/Extra Heavy Standard tree pits	- 1200 x 900mm depth
Grass Area	- 150mm
Wildflower Areas	- Infertile ground, no topsoil necessary

Where necesary 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. Break up bottom of pits to a depth of 150mm. Compacted glazed sides of pits should be roughened.

The full analysis of existing and imported topsoil is recommended prior to use on site.

TOPSOIL REQUIREMENTS

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

1) Incorporate 75mm depth of soil conditioner into topsoil during cultivation;
2) Incorporate Algimuv Soil Improver or similar approved. 1.5kg/m3 to tree pit backfill and 75g/m2 to shrub areas;
3) Incorporate Enmag CRF 11-21-9 granular fertilizer or similar approved 5-60gms/pit backfill and 25-125gms to structure/ornamental beds;
4) Watering - supply minimum 54 litres/tree and 4.5 litres/shrub at planting;
5) Mulch - lightly fork over planted areas before applying a 75mm depth of 50-100mm grade bark mulch. Ornamental 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.

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 - 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, not less than 100mm in diameter unless stated otherwise.

TREE STAKES TIES & GUARDS

Trees planted within grassed areas to be planted with appropriate 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. 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
Whip/fthd	50mm	1.2m	0.45	1	1
Std Trees	75mm	1.5m	0.6	1	1
Sel Std	75mm	1.65m	0.6	1	1
Hvy Std	100mm	1.8m	0.6	2	1
Xtrv Std	100mm	1.8m	0.6	2	1

Native Buffer planting to be protected with suitable plastic spiral rabbit guards and support cane. Allowance to be made for evergreen and bushy species to be protected with mesh shrub guards and 750 x 25 x 25 timber stake and plastic ties.

TURFED AREAS

Turf to BS 3969:1998 + A1: 2013 from an approved source. 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. Apply approved herbicide to control perennial weeds and allow period of time to elapse as recommended by the manufacturer before cultivation. Apply proprietary fertiliser. 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.

GRASS SEED AREAS

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 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.

GRASS SEED AREAS

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 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.

Three to five days before seeding and before final cultivation apply a proprietary pre-seeding fertilizer at 50g/m2. 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. 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 apply a suitable pre-emergent herbicide immediately after sowing.

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 and dispose of all arisings.

GENERAL WILDFLOWER/SWALE GRASSLAND SEED MIXES

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 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.

Aftercare

First year management

Most sown meadow wild flower and grass species 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 which may grow up and obscure the meadow seedlings beneath. This annual weed growth is easily controlled by topping or mowing.

Mow newly sown meadows regularly throughout the first year of establishment to a height of 40-60mm, removing cuttings if dense. This will control annual weeds and help maintain balance between faster growing grasses and slower developing wild flowers.

Avoid cutting in the spring and early summer if the mixture has been sown with a nurse cover of cornfield annuals, or is autumn sown and contains Yellow Rattle. These sown annuals should be allowed to flower, then in mid-summer cut back and the cut vegetation removed. It is important to cut back cornfield annuals before they die back, set seed or collapse; this cut will reveal the developing meadow mixture and give it the space it needs to develop.

Dig out any residual perennial weeds such as docks.

Management once Established

In the second and subsequent years sowings can be managed in a number of ways which, in association with soil fertility, will determine the character of the grassland. The best results are usually obtained by traditional meadow management based around a main summer hay cut in combination with autumn and possibly spring mowing or grazing.

Meadow grassland is not cut or grazed from spring through to late July/August to give the sown species an opportunity to flower. After flowering in July or August take a 'hay cut'; cut back with a scythe, petrol strimmer or tractor mower to c 50mm. Leave the 'hay' to dry and shed seed for 1-7 days then remove from site.

Mow or graze the re-growth through to late autumn/winter to c 50mm and again in spring if needed.

TREE PROTECTIVE FENCING

The contractor shall maintain Tree Protection fencing 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.

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

Regular visits during any 12 months maintenance/defects period to maintain all planted areas in a weed and litter free condition using a combination of chemical spray and hand weeding to be agreed with the Landscape Architect. Maintenance to include watering, pruning, pest and disease control and re-mulching as required. Grass areas to be mowed at 10 day 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. Keep the sward free of broadleaved weeds by applying a suitable selective herbicide. Ensure sufficient water is provided to maintain healthy growth unless water restrictions are in place.

Native Shrub planting areas shall be maintained as non competitive weed free environment by repeated applications of appropriate herbicide. Persistent weeds and unwanted scrub shall be spot treated as necessary with an alternative herbicide. Watering shall be carried out as necessary to maintain healthy growth or as required by the Landscape Architect subject to any statutory restrictions.

Final visit to be immediately prior to any hand over and to include a fertilizer treatment of Enmag (CRF 11-21-9) at 100g/m2 and 25mm depth bark mulch top up to all planted areas.

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.

POST PLANTING MAINTENANCE

Regular visits during any 12 months maintenance/defects period to maintain all planted areas in a weed and litter free condition using a combination of chemical spray and hand weeding to be agreed with the Landscape Architect. Maintenance to include watering, pruning, pest and disease control and re-mulching as required. Grass areas to be mowed at 10 day 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. Keep the sward free of broadleaved weeds by applying a suitable selective herbicide. Ensure sufficient water is provided to maintain healthy growth unless water restrictions are in place.

Native Shrub planting areas shall be maintained as non competitive weed free environment by repeated applications of appropriate herbicide. Persistent weeds and unwanted scrub shall be spot treated as necessary with an alternative herbicide. Watering shall be carried out as necessary to maintain healthy growth or as required by the Landscape Architect subject to any statutory restrictions.

Grass areas to be maintained as detailed above.

Final visit to be immediately prior to any hand over and to include a fertilizer treatment of Enmag (CRF 11-21-9) at 100g/m2 and 25mm depth bark mulch top up to all planted areas.

Notes

Copyright
© Robert Doughty Consultancy Limited
All rights described in the Copyright, Designs and Patents Act 1988 have been asserted.

Ordnance Survey Map
© Crown Copyright. OS Licence No: AR 100010613.

Dimensions
All dimensions shown are for the purposes of obtaining the relevant planning permission only.

CDM 2015
This drawing is for illustrative purposes and/or obtaining the relevant planning permission only. It should not be used for construction and accordingly, risk identification under the Construction (Design & Management) Regulations 2015 has not been undertaken.

1.8m high vertical plank fence
2m high acoustic fence
0.9m high vertical rail fence to attenuation basin
1.8m high close boarded fence
1.2m high post & rail fence
1.8m high garden walling

N
0 2 4 6 8 10m

Rev	Description	Date
D	Exercise equipment shown. Planting revisions RE: attenuation area	18.10.22
C	Boundary treatment revisions	01.09.22
B	Additional refuse collection points shown to private drive areas.	25.07.22
A	Boundary treatment revisions	29.06.22

rdc
Robert Doughty Consultancy

32 High Street, Helpringham
Sleaford, Lincolnshire, NG34 0RA

Tel: 01529 421646
Email: admin@rdc-landplan.co.uk
Web: www.rdc-landplan.co.uk

Client
D & R Homes (Gosberton) Ltd

Project
Land off Spalding Road
Gosberton

Drawing
Proposed Planting Plan 2 of 2

Scale @ A1	Date
1: 200	16/12/21
Drawn By	**Checked By**
WW	GP
Job Number	**Status** / **Purpose of Issue**
1308-5	PL / Planning

Drawing No. 1308-5_PL_PP02 **Rev** D