PLANTING SCHEDULE

Trees

Number	Species	Girth	Specification
3	Acer campestre	14-16cm(m)	Extra Heavy Standard
2	Acer campestre 'Elsrijk'	14-16cm(m)	Extra Heavy Standard
2	Acer platanoides 'Emerald Queen'	14-16cm(m)	Extra Heavy Standard
2	Alnus glutinosa	14-16cm(m)	Extra Heavy Standard
2	Alnus incana	14-16cm(m)	Extra Heavy Standard
4	Betula pendula	14-16cm(m)	Extra Heavy Standard
1	Betula pubescens	14-16cm(m)	Extra Heavy Standard
1	Crataegus prunifolia 'Splendens'	14-16cm(m)	Extra Heavy Standard
1	Fagus sylvatica	14-16cm(m)	Extra Heavy Standard
1	Malus sylvestris	14-16cm(m)	Extra Heavy Standard
1	Prunus avium	14-16cm(m)	Extra Heavy Standard
1	Prunus padus	14-16cm(m)	Extra Heavy Standard
1	Salix caprea	10-12cm(m)	Feather
1	Salix viminalis	10-12cm(m)	Feather
1	Sorbus aria	14-16cm(m)	Extra Heavy Standard
1	Sorbus aucuparia	14-16cm(m)	Extra Heavy Standard
1	Tilia europaea	14-16cm(m)	Extra Heavy Standard

Total: 30

Shrubs

Number	Species	Height	Pot Size	Specification	Density
63	Bergenia cordifolia	20-30cm(m)	3L	C	4/m²
16	Choisya ternata 'White Dazzler'	40-60cm(m)	3L	C	4/m²
63	Geranium macrorrhizum 'Ingwersen's variety'	20-30cm(m)	3L	C	4/m²
60	Hebe buxifolia	40-60cm(m)	3L	C	4/m²
17	Hydrangea arborescens 'Annabelle'	40-60cm(m)	3L	C	3/m²
15	Lavandula angustifolia 'Munstead'	40-60cm(m)	3L	C	4/m²
22	Potentilla fruticosa	40-60cm(m)	3L	C	3/m²
15	Viburnum davidii	40-60cm(m)	3L	C	4/m²

Total: 343

Native Hedge

Number	Species	Height	Specification	Percentage Contribution
64	Acer campestre	60-80cm(B)		10%
64	Corylus avellana	60-80cm(B)		10%
254	Crataegus monogyna	40-60cm(B)		40%
33	Ilex aquifolium	40-60cm(B)		5%
95	Prunus spinosa	40-60cm(B)		15%
64	Rosa canina	60-80cm(B)		10%
64	Sambucus nigra	60-80cm(B)		10%

Total: 639

Formal Hedge

Number	Species	Height	Specification
669	Carpinus betulus	1.5-3m(B)	

Total: 669

Structure Planting

Number	Species	Height	Specification	Density	Percentage Contribution
77	Betula pendula	60-80cm	B	2/m²	10%
38	Cornus sanguinea	60-80cm	B	1/m²	5%
77	Corylus avellana	60-80cm	B	2/m²	10%
229	Crataegus monogyna	80-100cm	B	2/m²	30%
39	Ilex aquifolium	40-60cm	B	1/m²	5%
77	Prunus spinosa	60-80cm	B	2/m²	10%
77	Quercus robur	80-80cm	B	2/m²	10%
39	Rosa canina	60-80cm	B	1/m²	5%
77	Sorbus aucuparia	80-100cm	B	2/m²	10%
39	Viburnum opulus	60-80cm	B	1/m²	5%

Total: 770

Hedge planting to be established in double staggered rows, 300mm between rows, plants equally spaced with 6no plants per linear metre.
Rain Garden plants to be established in single species groups of between 7 and 11.

LEGEND

- Existing trees to be retained and protected in accordance with BS 5837:2012 as required.
- Existing trees to be removed as part of the development.
- Existing groups of trees / vegetation / hedges to be retained and protected in accordance with BS 5837:2012.
- Existing groups of trees / vegetation / hedges to be removed as part of the development.
- Proposed tree planting. Refer to schedule for details.
- Proposed hedge planting. Refer to schedule for details.
- Proposed native structure planting. Refer to schedule for details.
- Proposed shrub planting to include pollinators. Refer to schedule for details.
- Proposed amenity grassed areas to be seeded with 'A22 Low Maintenance' by Germinal or similar on min.150mm topsoil on min. 300mm subsoil as per specification. Sown at the recommended rate of 50g/m2.
- Proposed amenity grassed areas to be seeded with 'WFG20 Eco Species Rich Lawn' by Germinal or similar on min.150mm topsoil on min. 300mm subsoil as per specification. Sown at the recommended rate of 10g/m2
- Proposed wildflower seed mix to be Germinal Mix 'RE3 River Floodplain / Water Meadow (MG8 Grassland)' sown at the recommended rate of 5g/m2. To be left uncut and strimmed only twice per year.
- Proposed seed mix to be Emorsgate Seeds Basic General Purpose Meadow Mix 'EM1' sown at the recommended rate of 4g/m2. To be left uncut and strimmed only twice per year.

Notes about birds breeding season and tree removal:
It is recommended that vegetation which needs to be removed is done prior to the bird breeding season. [1st March to 31st August]. If this is not possible within this period, the vegetation removal should be carried out under the supervision of an Ecologist.

If birds are found to be breeding in the vegetation which needs to be removed then vegetation removal in the area surrounding the nest must be delayed until the eggs have hatched and the young birds have left the nest.

Rabbit Protection
All hedge and structure planting to be fitted with TUBEX STANDARD TREE GUARDS or SHRUBSHELTERS according to plant type. Tubes to be 60cm high or similar approved. Tree/Shrub shelters need to be well anchored using good quality square stakes, inserted into the ground to at least 1/3 of the stake height.

Ensure the stake is below the flared rim at the top of the Shrubshelter. Using the shelters natural strength push it lightly into the ground to remove the gap at the base.

Typical section through tree pit / hedge / shrub planting / grass.
Scale 1:25

Planting Specification

All work and materials shall be in accordance with current British Standards components and to Code of Practice.

SITE CLEARANCE

a - Remove general builders rubble, litter and any stones greater than 75mm in size from the areas to be planted. Such materials are to be collected and taken to the Contractors tip or disposed of on site as directed.

EARTHWORKS
Planting Areas

a - Approved topsoil, both site won and imported, shall be led onto site and spread evenly on the approved formation to give a finished depth of 150mm for grassed areas, 450mm for shrub planted areas and 1000mm depth for tree pits. All topsoil to be placed on a minimum of 300mm depth of subsoil.
b - Finished levels of topsoil in grassed areas to be 25mm below adjoining paving. Finished level of topsoil in shrub beds to be 50mm lower than adjacent edge to allow placing of bark mulch.
c - Supply and spread approved fertiliser such as SAI Enmag or similar standard at the rate of 70g/m to be worked into top 200mm.

CULTIVATIONS AND PLANTING
Planting Areas

a - Shrub beds shall be cultivated prior to planting to produce a medium tilth and all weeds, stones and other debris exposed in this work are to be collected and removed from site.
b - Spread approved tree and shrub planting compost over the planting beds at a rate of 20 litres/m² and work into the top 200mm.
c - Shrubs to be sited in locations, numbers and densities shown in the planting schedule and on the soft landscape drawings. Shrubs to be placed to achieve an even spacing and matching of shapes. All shrubs are to be planted at the depth at which they have previously been growing, allowing for soil settlement after planting.
d - Surfaces of shrub planting areas shall be left clean and neat with a raked surface between the planting during and on completion of work.
e - Immediately after planting all containerised plants shall be watered with 5 litres of water per plant.
f - All grass edges to be cut vertically with an edging iron to a depth of 100mm. Resultant edges to be clean and straight or an even smooth radius. Edges to be left neat and tidy with ground on shrub side meeting cut face at an even gradient. All cuttings to be removed from site.
g - A 50mm layer of matured conifer bark to be spread over planting areas and tops of tree pits, at least 10% of which shall exceed 60mm particle size and shall contain a minimum of wood particles, the bark is to be peel, disease and seed free.

Tree Planting - Planting Pits

a - Excavate tree pits as follows:-
Standard / Feathered trees -1000 x 1000 x 1000mm
Semi-Mature trees - 1500 x 1500 x 1000
b - Loosen base to a further depth of 200mm and scarify sides. Dispose of unsuitable excavated material off site to approved tip.
c - Trees to be double staked with stakes positioned parallel to the adjacent kerb line or paving. Tree stakes to be pressure treated, minimum diameter 65mm and pointed at one end. Stakes to be driven into the pit before planting to a minimum depth of 300mm below the base of the pit.
d - Trees to be planted in pit to a depth and orientation related to the original growing position in the nursery and backfilled with the excavated topsoil mixed with approved tree and shrub planting compost in the following amounts:-
Feathered trees - 60 litres/tree
Standard trees - 95 litres/tree
Heavy standard trees - 120 litres/tree
Semi-mature trees - 150 litres/tree
e - Trees shall be supported by stakes with adjustable rubber or nylon tree ties with spiral rubber spacers, positioned at an approved point suitable to the habit of the tree.
f - Proposed trees within 3m distance from buildings or services, or within 2.5m of roads/parking areas are to have root barriers installed.
g - Water to be applied to all trees and transplants on the same day as planting:-
Feathered trees - 36 litres/tree
Standard trees - 36 litres/tree
Heavy Standard trees - 42 litres/tree
Extra Heavy standard - 48 litres/tree

Grass Seeding

a - Areas for seeding to have topsoil depths of min. 150mm apart from wildflower areas where seed should be sown directly onto subsoil.
b - One month prior to sowing, areas shall be harrowed to a depth of 100mm followed by chain harrowing to a depth of 50mm to produce a fine tilth. Finished surfaces to be rolled with a Cambridge roller.
c - All weeds, stones and other debris arising from this work shall be collected and removed from site to the Contractors tip.
d - All grassed and broad-leaved plants which emerge between cultivations and seeding shall only be treated with an approved translocated herbicide before sowing.

Minor Grading

a - Finished levels of amenity grass areas to be 25mm above adjoining paving or kerbs. Levels to be arranged to give gentle falls for drainage purposes.
b - New areas to be married in to adjoining soiled areas.

Final Cultivations

a - The surface for seeding should be 25mm deep and free from weeds and stones.

Sowing
Grass Seed Mixes

a - Germinal Seeds Ref: 'A22 Low Maintenance' sown at recommended rate of 50g/m², or similar approved.
b - Germinal Seeds Ref: 'RE3 River Floodplain / Water Meadow' sown at recommended rate of 5g/m², or similar approved.
c - Emorsgate Seeds Ref: 'EM1 Basic General Purpose Meadow Grass Mix' sown at rate of 4g/m², or similar approved.

Procedure

a - The Contractor shall purchase fresh grass seed each season throughout the contract period. The grass seed shall be made up of certified seeds under EEC regulations. The seed shall have a certified germination of not less than 70% and a certificate of purity of not less than 90%. Total weed seed and other crop seeds content shall not be more than 15. Seeds shall be obtained at least 21 days before sowing.
b - The Contractor shall be required to submit certificates for all deliveries of grass seed stating the seed source, mixture percentage, percentage purity and germination period. All seed shall be delivered in original sealed bags.
c - Amenity grass seed mixes are to be sown onto a minimum of 150mm depth of topsoil on min. 300mm subsoil.
d - After sowing, all amenity grass areas are to be consolidated using an approved type ringed roller.
e - Sowing shall be carried out in suitable weather conditions in horizontal directions. After sowing, ground to be lightly raked and all stones over 12mm gauge shall be removed.

Turfed Areas

a - Ensure soil below is prepared correctly, level and lightly watered before laying the turf. Each row of turf should be laid so that joints are offset by min 300mm. Start laying along a straight side in a row built jointing the ends tightly together.
b - Do not stretch the turf, always push the turf into a joint. Avoid gaps, but if they do occur fill them in with a light soil/sand mixture. Ensure complete contact between the soil and the underside of the turf and if necessary use a flat board or head of a rake to lightly firm down the turf.
c - Immediately after laying, start watering. Ensure that the new turf is never short of water. Water repeatedly for at least two weeks and/or until the turf is well established. Once established, weekly watering during dry periods should be adequate. First cut to be undertaken once grass sward is long enough to cut.

Grass Subsidence/Damage

a - Any subsidence of seeded or turfed areas below the specified levels shall be made good and re-seeded. These works shall be rectified a the Contractor's expense.
b - The Contractor shall make good any damage caused by work personnel, plant or material whilst carrying out and maintaining the work on site

Watering

a - Contractor shall be entirely responsible for all watering necessitated by dry weather and it shall be undertaken by stationary rotary sprays.

Completion

a - Grass areas shall be accepted as having reached practical completion only when germination has proved satisfactory and healthy weed free swards have been established.

MAINTENANCE

General

a - The Contractor shall be responsible for the maintenance of the planting and grassed areas for a 12 month period following the completion of the works and will be responsible for any defects due to faulty materials, including plant failures, or workmanship during this time.
b - The Contractor shall carry out maintenance work at suitable intervals and in suitable weather conditions.
c - 48 hours notice in writing shall be given before commencement of any maintenance operations. Failure to do so will result in non payment for any supposed work carried out.

Defects Liability Period

a - Any trees, shrubs and grass found to be defective or missing for any reason before practical completion shall be replaced by the Contractor entirely at his own expense.
b - Thereafter any failures within 12 months of the date of practical completion shall also be replaced to the original specification by the Contractor entirely at his own expense, in the next planting season.
c - Thereafter any failures within the next 4 years shall also be replaced to the original specification in accordance with the planning conditions.

Weed Control

a - Keep shrub beds and areas around trees free from annual and perennial weeds by hand weeding. All arisings to be removed from site. Allow 7 no. visits per year.
b - Apply translocated herbicide to shrub beds using weed wiper. Allow 3 visits a year with dead weed growth removed after each visit.

Mulch

a - Bark mulch to be reinstated to original depths at the end of each growing season. Allow 1 no. visit per year.

Watering

a - All planting shall be watered with a low pressure hose during dry spells, within the first year of growth only, at the following rates:-
Feathered/standard trees - 36 litres/tree/visit
Heavy standard trees - 42 litres/tree/visit
Semi-mature trees - 48 litres/tree/visit
Shrubs - 5 litres/plant/visit

Fertiliser

a - At the end of the establishment period, 30gms of slow release fertiliser to be applied around each plant. Allow 1 no. visit at end of Year 2

Grass Cutting

a - Areas sown with amenity mix:
16no. visits between April and October. Grass areas to be cut to a height of c.40mm. NB: Or drought conditions adjust cutting regime accordingly. In very wet conditions, all operations involving grass cutting shall cease until conditions allow operations to continue without damaging the surfacing, levels and contours of the ground. Allow for sweeping clean of all paths and roads of grass cuttings at each mowing
c - IN ALL CASES all arisings are to be removed from site.

Firming in

a - All plants and tree stakes loosened by planting operations, wind or frost shall be firmed in. Allow 1 no. visit per year.

Litter Collection

a - Whole site to be kept in a clean and tidy condition throughout the establishment period. Litter to be removed from site. Allow 20 no. visits per year.

REV.	DESCRIPTION.	DATE.	REV.	DESCRIPTION.	DATE.	REV.	DESCRIPTION.	DATE.
-	-	-						

IMPORTANT CDM / H&S NOTE
The designers would draw the readers attention to key residual construction health and safety hazards that have not been eliminated from the designs shown on the drawings by the design process. These hazards are identified below:
Working on or adjacent to the public highway.
Working adjacent to water bodies during storm conditions.
Working adjacent to steep slopes and changes in level.
Any construction personnel including operatives intending to construct the designs shown on this drawing should ensure that they have been thoroughly briefed by the principle contractor on all health and safety matters and have sight of:
1. The full designers and contractors hazard risk assessments and risk registers.
2. The developed construction phase health and safety plan.
3. The contractors construction method statements.

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PROJECT
Lleine Farm, Cynwyl Elfed, Carmarthenshire
DRAWING TITLE
Soft Landscape Proposals

DRAWING No.	SCALE (A0)	DATE	DRAWN	CHKD
1265.01	1:300	May/25	LH	DP

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