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purpose of issue **PLANNING**

rev	description	date	by
e	Proposals updated to latest layout	21-02-2024	MWi
d	Proposals updated to latest layout	06-02-2024	MWi
-	Original	08-08-2023	MWi

client
White Lion Land (Malmesbury) Limited

project title
Land at Park Road, Malmesbury, Wiltshire

drawing title
Detailed Landscape Design - Planting Plan
POS Proposal **Overview**

date	**21 FEBRUARY 2024**	drawn by	**MWi**
drawing number	**edp7403_d006e**	checked	**HMc**
scale	**1:500 @ A1**	QA	**RBa**

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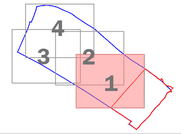


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N

- Site Boundary
- Ownership Boundary
- Existing Vegetation to be Retained — Refer to the Arboricultural Report
- Existing Vegetation to be Removed — Refer to the Arboricultural Report
- Existing Grassland to be Retained
- Existing Grassland to be Retained and Enhanced — To be Oversown with a Species Rich Meadow Mix
- Existing Grassland Edges to be Cut Every 2-3 Years
- Proposed Tree Planting
- Proposed Native Shrub Planting
- Proposed Marginal/Aquatic Shrub Planting
- Proposed Bulb Planting
- Proposed Species-Rich Meadow Grass
- Proposed Wetland Meadow Grass to Base of Seasonally Wet of Attenuation Features
- Proposed Informal Mown Path

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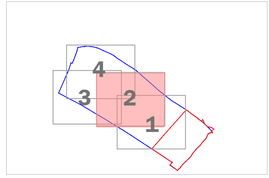
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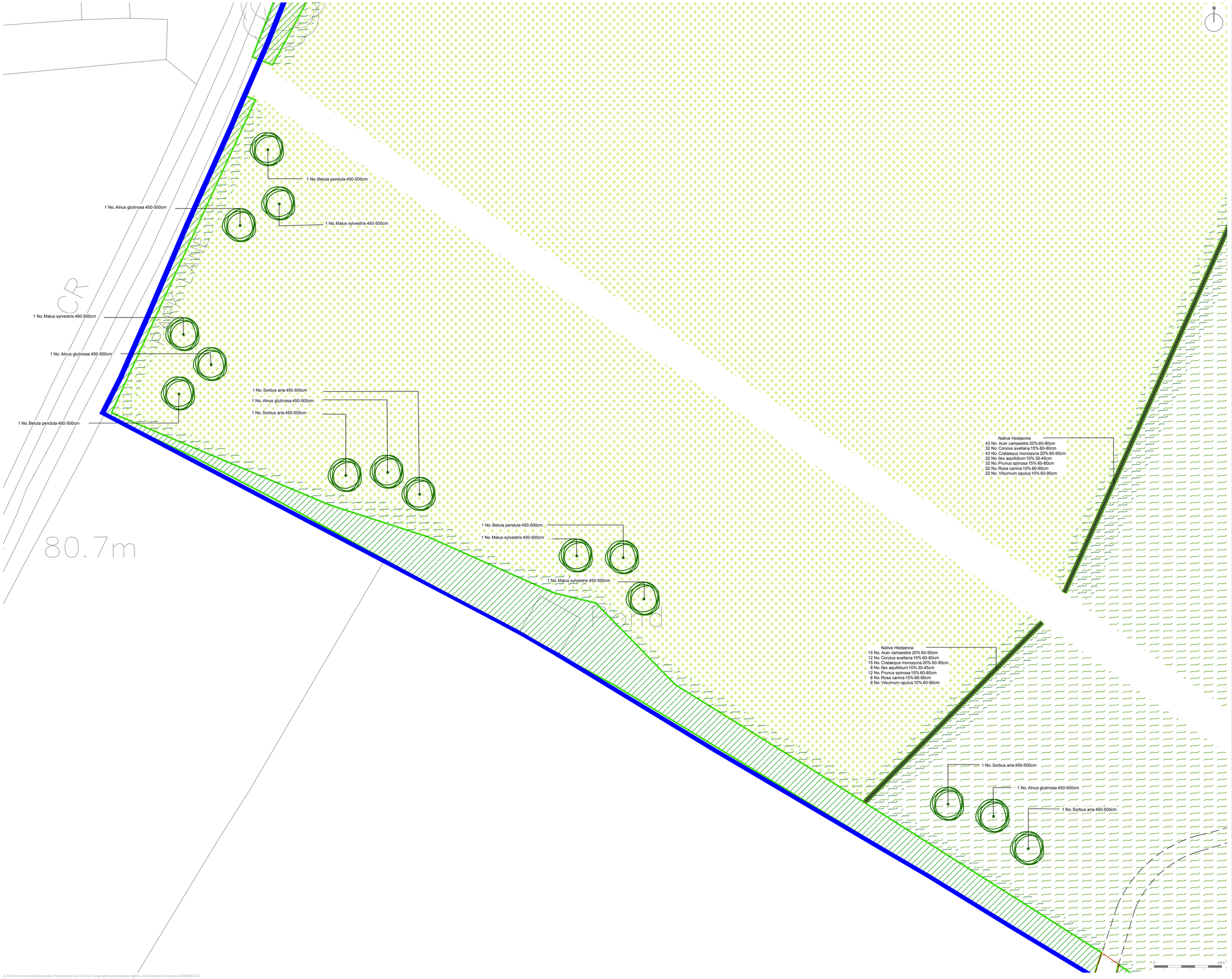
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Proposed Tree Planting

Proposed Native Shrub Planting

Proposed Marginal/Aquatic Shrub Planting

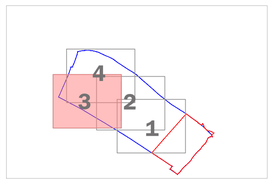
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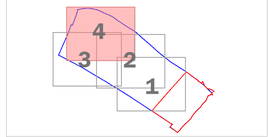
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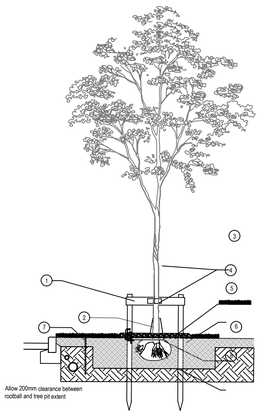
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PLANTING SPECIFICATION



Tree Pit Detail

1. 2x tanalised timber tree stakes, 75mm Ø driven into backfilled pit, and half round timber cross bar rails, 75mm Ø secured to tree stakes to provide support to the tree. Stakes 600mm above GL. Ensure stakes are not driven through the tree rootball.

2. Green-tech or similar strimmer guard - brown. Ensure that protection methods do not impede the natural movement of trees or restrict growth. Fit according to the manufacturers recommendations.

3. Secured centrally by rubber tie with spacer to trunk - minimum width 70mm

4. 75mm deep bark mulch layer to be spread evenly over a circular area 1000mm Ø around the tree to prevent weed growth and retain moisture.

5. tree pit 2000 x 2000 x 500mm with existing topsoi / imported topsoil to BS 3882 general purpose grade. Loosen any compaction in base of excavated pit to aid drainage. The tree should be planted at a depth where the root flare is still visible just breaching the soil surface following backfilling.

6. *RootRain Metro* irrigation system or similar. Place around top of root ball and nail to supporting stake, ensuring filler cap finishes slightly above mulch level.

7. *ReRoot* root barrier with root deflecting ribs installed between tree root ball and hard surfaces/services where there is a risk of root damage as the tree grows outward. As a general rule, root barriers should be installed in locations where hard surfaces and/or services are located within three metres of the tree stem. Install closer to the paving/service than the tree, to allow space for the tree roots to grow into the space available, with the ribs facing the tree. Note this may mean not placing the barrier within the tree pit, but further away within its own trench. Root barriers must extend a minimum of 2m lengthways beyond the expected canopy of the mature tree. The top of the root barrier should be set as close to the soil surface as possible without being visible. Refer to drawing for location / depth. Depth dependant upon adjacent services.

8. Backfill tree pit with topsoil excavated from pit - all tree pits to receive compost amelioration and fertiliser as per nbs spec.

Immediately after planting, water the tree, saturating the tree pit to field capacity.

Tree Maintenance and Management During 5 Year Establishment Period

Immediately following planting, the tree should be watered thoroughly. Following this, and with regard to prevailing weather conditions, newly planted trees should be watered regularly during periods of dry weather. If the tree pit has been specified with an irrigation pipe, this should be used as the primary method of watering. If no irrigation pipe is specified, the square metre of ground around the tree should be soaked to field capacity (refer to BS 8545:2014 for further detail) by surface watering. Watering frequency is more important than quantity to prevent the root ball of the newly planted tree from drying out.

All trees are fitted with protective guards to prevent animal damage. These should be checked regularly to ensure they remain in place and are providing adequate protection against the animals in the area. If damage to trees from browsing by animals still occurs, additional measures may be required.

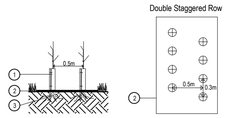
A formal assessment of young tree health and development should be carried out annually by a qualified arborist who will be able to advise on solutions should any problems be picked up. During this assessment, any stakes and ties should be checked to ensure they are providing support but not damaging the tree, and that the tree is still firmly seated in the ground. If the tree has become loose in the ground, the soil around the base should be re-firmed and stakes and ties adjusted accordingly.

The mulched area around the base of the tree should be kept clear of competing vegetation and weeds at all times.

Tree stakes and ties should be removed once the tree has established a strong enough root system to support itself, likely to be 1-2 years after planting. Strimmer guards should remain in place until the end of the five year establishment, with adjustments or segments added as necessary to facilitate tree growth. Tree guards should only be removed if they are beginning to restrict tree growth or if it is felt the risk of damage has significantly reduced due to strong tree growth and development or changes in the surrounding environment.

Formative pruning should be carried out in accordance with BS 3998 as required throughout the five year establishment period.

For further guidance on tree maintenance during establishment refer to
BS 8545:2014 Section 11.



Hedgerow Planting Detail

1. Tubex shrub shelter with supporting cane or stake or similar approved.

2. 2m wide biodegradable weed mat roll pegged down with biodegradable pegs along line of hedgerow to prevent weed growth and retain moisture.

3. Whip to be notch planted following clearance of any existing vegetation.

Immediately after planting, water the whip, saturating the ground around its base to field capacity.

For further general guidance on planting refer to
BS8545:2014 Section 10 and BS4428:1989 Section 9.

Products suggested in italics above are available from Tubex (http://www.tubex.com/).

Whip Maintenance and Management During 5 Year Establishment Period

Immediately following planting, the whip should be watered thoroughly. Following this, and with regard to prevailing weather conditions, newly planted whips should be watered regularly during periods of dry weather. When watering, the square meter of ground around the whip should be soaked to field capacity (refer to BS8545:2014 for further detail) by surface watering. Watering frequency is more important than quantity to prevent the roots of the newly planted whip from drying out.

All whips are fitted with protective guards to prevent animal damage. These should be checked regularly to ensure they remain in place and are providing adequate protection against the animals in the area. If damage to trees from browsing by animals still occurs, additional measures may be required.

A formal assessment of areas of whip planting should be carried out annually by a qualified arborist who will be able to advise on solutions should any problems be picked up. During this assessment any guards and canes/stakes should be checked to ensure they are providing protection but not damaging the developing whip and that its roots are still firmly seated in the ground. If the whip has become loose in the ground, the soil around the base should be re-firmed and guards adjusted accordingly.

The space above the mulch mat around the whip should be kept clear of competing vegetation and weeds at all times.

The shrub shelter/guard should be removed once the whip has established a strong enough root system to support itself and has begun to grow strongly clear of the top of the shelter/guard, likely to be 1-2 years after planting. Biodegradable mulch mats can remain in place indefinitely.

Formative pruning should be carried out in accordance with BS3998 as required during the first 5 years to ensure the desired form is achieved.

For further guidance on whip and tree maintenance during establishment refer to BS8545:2014 Section 11.



Whip Planting Detail

1. Clear spiral guard to be fitted to trunk to protect against animal browsing with supporting cane or stake.

2. 50x50cm biodegradable mulch mat pegged down with supplied biodegradable plastic anchor pegs around the whip to prevent weed growth and retain moisture.

3.Whip to be notch planted following clearance of any existing vegetation.

Immediately after planting, water the whip, saturating the ground around its base to field capacity.

For further general guidance on planting refer to BS 8545:2014 Section 10 and BS4428:1989 Section 9.

Products suggested in italics above are available from Tubex (http://www.tubex.com/)

Whip Maintenance and Management During 5 Year Establishment Period

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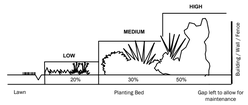
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Planting Layout Guide (High, Medium, Low)

The mix of plants for each planting bed has been divided based on height and position within the border. Plants in the low category should be planted in the front 20% of the bed and plants in the medium category in the mix 30% and the high category in the rear 50%.

Plants are to be planted in same species groups of 2-3 plants where numbers allow.



Wildflower Meadow - Seeding and Preparation

There are several methods to create a wildflower meadow. The method will depend on the size of the area to be seeded, the condition and diversity of flora on site and the availability of mechanised assistance.

Objectives

- Create a wildflower meadow that establishes to create a vibrant sward containing a variety of species
- Enhance biodiversity locally
- Provide vital habitat for insects, mammals and birds

Preparation/ Cultivation

- Area should be free of competing weeds, debris and rubbish
- Soil should be cultivated or rotavated to removed compaction
- Debris or stones larger than 50mm should ideally be removed from the surface before laying/-sowing
- Ground should be sufficiently level, with the top 15cm cultivated to a fine tilth before sowing/-turfing, allowing water to fully permeate the soil

Seeding

- Sowing to be undertaken mid-to-late April but can continue to the end of May
- Seed should be sown thinly to suppliers recommended sowing rate – therefore mix seed with a bulking agent such as sand
- Lightly rake seed into the soil
- If conditions are particularly dry, the seed will need to be watered to stimulate germination

Operations to Ensure Establishment

- Seeded area to be fenced off if required to protect germinating seeds from trampling;
- Newly seeded areas to be kept moist during periods of dry weather;
- First cut should only be undertaken once grass species within mix have established and grown to at least 150mm;
- First cut to take off 1 third only;
- A spring meadow should be cut in late June to early July to a height of 75-100mm;
- Summer meadows should be left uncut from June until mid-September or later; regular cutting for the first part of the year will prevent the establishment of course grasses;
- All arisings should be left for between 3-7 days before collection or bailing to allow seed pods to open and disperse seed;
- All arisings should be removed to prevent nutrient build up;
- Annual seed heads can be left standing over winter or can be cut back in late autumn with a brush cutter/strimmer
- Perennial meadows should be cut back in the same way, with a cut in winter before spring growth appears
- Annual meadows will need re-seeding the following spring

Ongoing Maintenance and Management

- Cut the wildflower medow twice yearly to a height of 75-100mm, with the first cut taking place after flowering and seed drop – late July to mid-August
- The cut grass should be left to dry for 3-7 days dependent on weather conditions, and then collected and removed to a designated composting area on- or off-site
- The second cut is to take place at the end of the growing season (October/November), prior to winter die back
- All arisings are to be collected and removed, it is important to collect and remove mowings to retain low soil fertility and high floral diversity
- Remove all unwanted invasive, vigorous weeds (such as thistles and nettles, as well as all injurious weed species listed in the Weeds Act 1959 and Countryside Act 1981), including roots, by hand or by spot treatment with appropriate weed killer. Selective lawn killers should not be used.
- Wildflower meadows do not require any additional watering or feeding once established, this could alter the natural balance of plants in the area. Many native plants colonise poor land and the addition of extra nutrients and water will encourage excessive vigour in grasses, which will consequently out-compete the more desirable native plants
- Areas of grassland with bulbs should be left un-mown in early spring. Make the cut when the bulbs have died down (approximately six weeks after flowering). After this, the management should revert to that of the surrounding grassland

Planting Schedule

Trees

Number	Common Name	Species	Girth	Height	Specification	Density
7	Common Alder	Alnus glutinosa	14-16cm	450-500cm	Extra Heavy Standard :Clear Stem min. 200	Counted
8	Common Silver Birch	Betula pendula	14-16cm	450-500cm	Extra Heavy Standard :Clear Stem min. 200	Counted
4	Common Hornbeam	Carpinus betulus	14-16cm	450-500cm	Extra Heavy Standard :Clear Stem min. 200	Counted
547	Common Hawthorn	Crataegus monogyna		60-80cm	1+1 transplant	1.5/m²
7	Common Crab Apple	Malus sylvestris	14-16cm	450-500cm	Extra Heavy Standard :Clear Stem min. 200	Counted
12	Whitebeam	Sorbus aria	14-16cm	450-500cm	Extra Heavy Standard :Clear Stem min. 200	Counted

Total :585

Shrubs

Number	Common Name	Species	Height	Pot Size	Specification	Density
166	Common Dogwood	Cornus sanguinea	50-60cm	3L	1+1 transplant	1.5/m²
113	Common Hazel	Corylus avellana	60-80cm	3L	1+1 transplant	1.5/m²
166	Blackthorn	Prunus spinosa	50-60cm		1+1 transplant	1.5/m²
57	Dog Rose	Rosa canina	50-60cm		Bare root or 2L pot	1.5/m²
57	Guelder Rose	Viburnum opulus	50-60cm	3L		1.5/m²

Total :559

Bulbs

Number	Common Name	Species	Bulb Size	Specification	Density
2679	Common Snowdrop	Galanthus nivalis		Grade 10/+	20/m²
2679	English Bluebell	Hyacinthoides non-scripta		Grade 10/+	20/m²
3571		Narcissus 'Tete a Tete'		Grade 10/+	20/m²

Total :8929

Marginal / Aquatics

Number	Common Name	Species	Specification	Density
43	Fool's Watercress	Apium nodiflorum	Full pot :Sept to April planting :British native origin	0.4Ctr
56	Lesser Pond Sedge	Carex acutiformis	Full pot :Sept to April planting :British native origin	0.4Ctr
29	Common Spike Rush	Eleocharis palustris	Full pot :June to Sept planting :British native origin	0.4Ctr
43	Meadowsweet	Filipendula ulmaria	Full pot :Sept to April planting :British native origin	0.4Ctr
70	Yellow flag iris	Iris pseudacorus	Full pot :Sept to April planting : British native origin	0.4Ctr
43	Water Mint	Mentha aquatica	Full pot :Sept to April planting :British native origin	0.4Ctr

Total :284

Hedges

Number	Common Name	Species	Height	Specification	Density
58	Common Maple	Acer campestre	60-90cm	tpt	0.5Ctr
44	Common Hazel	Corylus avellana	60-80cm	tpt	0.5Ctr
58	Common Hawthorn	Crataegus monogyna	60-90cm	tpt	0.5Ctr
30	Common Holly	Ilex aquifolium	30-45cm	tpt	0.5Ctr
44	Blackthorn	Prunus spinosa	60-80cm	tpt	0.5Ctr
30	Dog Rose	Rosa canina	60-90cm	tpt	0.5Ctr
30	Guelder Rose	Viburnum opulus	60-90cm	tpt	0.5Ctr

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