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Planting Plan Key:

Site Boundary

Existing trees and vegetation to be retained and protected during the works.

Existing trees to be removed.

Proposed ornamental planting on 450mm depth of topsoil with 75mm bark mulch.

Proposed native tree planting, tree pit and double staking as detailed in the specification.

Proposed ornamental tree planting, tree pit and double staking as detailed in the specification.

Proposed single species formal hedge planted in a single row at 0.33 centres (3 no. plants per linear metre). Container transplants.

Front gardens to be turfed with Lindum LT7 Festival Landscape Turf (or similar approved) on 200mm topsoil.

Public open space to be sown with Geminal Eco Species Rich Lawn mix, or similar approved, to be sown at a rate of 10g/m2 on 200mm topsoil.

Wildflower seeding, WF19 Pollinators Paradise, to the public open space to be sown at 2g/m2 planted into 200mm of a mix of topsoil and subsoil (50:50).

0 1 2 4 6 8 10 12 14 16

SCALE 1:200

Ascerta

Landscape | Trees | Ecology

t: 0845 463 4404

e: info@landscapetreeseecology.com

www.landscapetreeseecology.com

CLIENT:

Ecdelstone Homes

PROJECT:

Langley Lane, Birch

DRAWING TITLE:

Planting Plan (Sheet 1 of 2)

SCALE:

1:200 @ A0

DRAWING No:

P.1885.23.01

REV:

A

Drawn by:

AC

Checked by:

CN

Date:

23/08/2023

LANDSCAPE AND MAINTENANCE SPECIFICATION

All operations to comply with appropriate British Standards unless otherwise stated on drawings or in the specification.

GENERAL TREATMENT OF PLANTING AREAS

Ensure that planting areas are protected from consolidation by heavy construction plant.

For work near a retained tree: Refer to BS 5837 *Trees in relation to design, demolition & construction - Recommendations*- Section 9 (Appendix C).

- Damage to Plants to be Retained:** If a plant is to be retained is damaged, the plant is to be repaired or replaced by the contractor at their own expense. "Damaged" means:
- The destruction of a plant the breaking of branches or roots
 - The debarking of trunks or limbs
 - The contamination of root zone soil or plants from drift sprays, dust or contaminated storm water
 - The damage by the placement of fill or building materials within the canopy perimeter or otherwise.

1) GROUND PREPARATION AND SOIL SPECIFICATION

Subsoil:
Before receiving topsoil, subsoil shall be loosened using appropriate equipment to a depth of 300mm. This shall be done when the subsoil is dry so as to encourage soil shattering. All stones and other objects larger than 50mm shall be removed from the prepared surface. The loosened subsoil shall be roughly levelled so that an even depth of topsoil can be achieved.

Topsoil (To Comply with British Standard 3882:2015 - Specification for Topsoil):
Imported topsoil shall be Multipurpose Grade as described in BS 3882:2015 and suitable for sustaining plant life. Stockpiling of soil shall be avoided whenever possible to minimise loss of physical quality, diffusion of oxygen and biological activity.
Any stockpiling shall not exceed 1.5 metres high and shall be sited so as to avoid risk of muddy water run-off into a watercourse, not exceeding 1.5 metres high.
The site of the stockpile will be prepared in advance by grading, removing rubbish and ensuring no fuel or chemicals were previously stored in area.
Topsoil shall be lightly consolidated in layers not exceeding 150mm using track laying machinery.
Soil shall not be handled in inappropriate conditions of weather and soil moisture i.e. During or shortly after heavy precipitation
When soil is in a waterlogged condition
When the ground is frozen or covered by snow
When there are pools of water on the grounds surface.
Topsoil shall be laid to the following minimum depths:
- 200mm below new grass areas
- 300mm to rear gardens
- 450mm beneath new shrub areas
- For wildflower areas a mixture of topsoil and selected subsoil (about 50:50) for a depth of about 150 mm. Selected subsoil alone can be used but if the structure is poor and the fertility very low there will be a very slow establishment of wildflowers and frequently domination by plants such as clovers which do not depend on nitrogen in the soil for their growth.
Finished levels, after settlement, shall be as follows:
25mm above adjacent paving from new grassed areas and non-mulched shrub beds
75mm below adjacent paving and grass for mulched planting beds.
150mm below damp proof courses.

2) GROUND CONDITIONING

40 litres of compost to be incorporated into the top 200mm of each square metre of topsoil for all ornamental shrub beds.

3) PLANT AND PLANTING SPECIFICATION

All plant stock, plant handling and planting to be undertaken in accordance with the following British Standard Specifications and Code of Practice:
BS 8545:2014 'Trees: from nursery to independence in the landscape
BS 3936: Part 1 1992 Nursery stock (Specification for trees and shrubs)
BS 3936: Part 4 1994 Nursery stock (Specification for forest trees)
BS 3936: Part 9 1987 Nursery stock (Specification for bulbs, corms and tubers)
BS 3936: Part 10 1990 Nursery stock (Specification for ground cover plants)
BS 4428: 1989 Recommendations for general landscaping operations.
BS 4043: 1989 Recommendations for transplanting root-balled trees. (withdrawn)
The Code of Practice for Plant Handling 1985. (Horticultural Trades Association).

Plant Stock:
Plant stock to be supplied in accordance with the size and description specified ion the plant schedule and position indicated on the most current revision of the planting plan.

Plant stock shall be healthy, vigorous, free from pests and diseases and suitably hardened off for the proposed situation of planting and lifted at a time in accordance with good nursery practice. Stock shall have a well-formed fibrous root system and be free from perennial weeds. The form of trees shall be in accordance with BS 3936: Part 1:1992, Section 7, *Form of Trees*.

Plant Handling:
All plant materials shall be lifted, bundled, labelled, packaged, transported, temporarily stored and planted in accordance with the procedures and methods illustrated in the publication, *"Plant Handling"* (Horticultural; Trades Association) and relevant sections of BS 4043: 1989 *Transplanting Root-Balled Trees*.

Tree Planting:
Trees to be pit planted following supplier recommendations. Minimum pit size: Selected standard tree 750 x 750 x 700, and Heavy standard tree 1000 x 1000 x 1000mm. Pits to be prepared to base and sides of pit to be further scarified.
Trees to be double staked using two stakes (75mm dia.), driven into ground 400mm below bottom of pit. Trees to be centrally located and stem placed in an upright position. Pit to be backfilled with 250-550mm (dependant on depth of pit due to size of tree) of a mix of subsoil with a 70 to 80% mix of sharp sand. Irrigation pipe to put around bottom of rootball with 25mm of pipe sticking out from the bark mulch level. Backfill remaining area of pit with 450mm of a 3:1 mix of an approved topsoil with compost. Backfill firmly to 50mm above previous ground level and creating a slightly domed shape with the highest point being at the centre of the tree to assist drainage and settlement. Tree pits in grass to contain a 600mm diameter circle of medium grade bark mulch to a settled depth of 75mm.
Water each tree sufficiently in same day of planting, amount of water dependant on size and soil conditions.
All works shall be carried out to the minimum standard according to BS 3936: 1992 Part 1 Nursery Stock. Specification for Trees and Shrubs. BS 4043: 1989 Recommendations for transplanting root-balled trees.

Staking:
Double stake all trees with two stakes, a crossbar, a spacer and webbing. Stakes to be round timber with chamfered tops. Position stake close to tree on windward side and drive vertically at least 400mm into bottom of pit before planting. Backfilling: consolidate material around stake. Height of stakes: cut to approximately 600mm above ground level, taking care not to damage the bark. Ties: Webbing with a spacer. Tying: secure tree firmly to crossbar with spacer and webbing.

Mulch:
All shrub beds shall be spread with a medium grade bark mulch to a settled depth of 75mm. Tree locations in grass should have a 600mm diameter circle of medium grade bark mulch to a settled depth of 75mm. Mulch to be free from fines, weeds, disease and contaminants.

Ornamental shrub planting:
To be set out carefully and evenly over indicated areas. Remove plants from pots and plastic containers, plant and water in thoroughly. Shrubs shall be individually pit planted in prepared pits sized to accommodate full spread of roots. Plants shall be evenly spaced over the planting area. Backfill each plant with a 3:1 mix of an approved topsoil with compost. Middle/ centre area of plant beds to be 50mm above previous ground level creating a slightly domed shape to assist drainage and settlement. Planting bed to be covered with a medium grade bark mulch to a settled depth of 75mm. Firm backfill by treading, ensuring the ground is not overly compacted and that each plant is positioned upright.

New formal hedges
Consistent in species, cultivar and clone to ensure a uniform hedge. To be planted in a previous prepared planting bed 0.6 metre wide. Plant stock to be planted centrally in a single row at 330mm spacings (3 per linear metre). Trench backfilled with 300mm of a 3:1 mix of an approved topsoil with compost. Backfill firmly to 50mm above previous ground level and creating a slightly domed shape with the highest point being along the hedge line/ centre line of the trench to assist drainage and settlement. Planting bed to be covered with a medium grade bark mulch to a settled depth of 75mm. Ensure plants are planted to the correct depth to correspond to the soil mark on main stems. Prune back to a height of 1 metres.

Mycorrhizae:
For specimen trees as root ball stock, ornamental shrubs in containers, and holly in containers for native hedgerow mix - Apply MycoForce Endo & Ecto Mycorrhizal Transplanter as per manufacturers specification before backfilling. Apply 1gm of Transplanter per litre of rootball. Either, dust the powder lightly over the root ball, mix MycoForce Transplanter with water and drench the root ball, or place Mycorrhizal Transplanter in the bottom of the planting pit or mix with the backfill that will come into contact with the feeder roots.

For bare root whips for native hedgerow mix and native scrub mix planting - Apply MycoForce Endo Ecto Mycorrhizal Whip Dip as per manufacturers specification. Apply as a root dip just before planting. 100g is sufficient to make Dip for 220 whips. Add 100 grammes of Whip Dip and 1-2 hydro gel sachet to 3-6 litres of water while stirring (the actual hydro gel and water requirement will depend upon water hardness and plant root mass.) Dip the bare roots of the whips into the paste just before planting (if dipped offsite, cover the roots in plastic during transport).

Products to be supplied by Green-tech or similar approved.

Turfed Areas:
To be specified and laid in accordance with BS. 3936:1998 Recommendations for turf for general purposes. Turf to be Lindum LT7 Festival Landscap Turf (or similar approved). Hardwearing with a dense sward containing a mixture of 25% perennial ryegrass, 55% fescues and 20% smooth stalked meadow grass. This mix is easy to maintain and will recover well from general wear.
Turf to be laid in suitable weather conditions on a prepared bed with no weeds and a suitable slow release fertiliser applied to bed prior to laying. Turf to be watered regularly until it is well established.

Rear gardens:
Subsoil to be prepared to a depth of 300mm as per ground preparation and soil specification.
Topsoil to be supplied as per ground preparation and soil specification to a depth of 300mm, after gentle compaction and to be left bare in rear gardens.

Grass Seeding:
Public open spaces shall be Germinal AberSustain mix, or similar approved. Sowing to be taken between March and October.
Topsoil shall be cultivated to a fine tilth, be free from weeds, stones and other debris. Levels to be graded to form finished levels as indicated in section, 'Topsoil'.
Roll, fertilise at 50gms/sq m, 10-14 days prior to seeding, sow at rate of 40g/m2 and lightly rake. First cut to be undertaken when grass reaches 50mm.

Wildflower Seeding:
Germinal WFG20 Eco Species Rich Lawn, or similar approved. Sowing to be taken between March and October.
The topsoil mixed with subsoil (50:50) shall be cultivated to a fine tilth, be free from weeds, stones and other debris. Sow at rate of 10 g/m2 and lightly rake. First cut to be undertaken 6 weeks after sowing or when reaches 70-100mm.

Germinal WF19 Pollinators Paradise, or similar approved. Sowing to be taken between March and October.
The topsoil mixed with subsoil (50:50) shall be cultivated to a fine tilth, be free from weeds, stones and other debris. Sow at rate of 2 g/m2 and lightly rake. First cut to be undertaken 6 weeks after sowing or when reaches 70-100mm.

4) MAINTENANCE AND MANAGEMENT

Plant stock and soft landscaped areas shall be maintained for a period of five years via the developers' agent or appointed Management Company during which time the following operations shall be carried out:

- Regular visits:**
Monthly maintenance visits to include the following operations:
- Hand weed planting beds
 - Remove litter
 - Sweep mulch spillage
 - Re-firming plant stock to ensure the new planting is all planting to upright positions.
 - Adjust stakes and ties as necessary
 - Prune plant stock as required to encourage good form
 - Check all plant stock and report signs of pests, disease, death and damage

Mulch:
Top up mulch levels (using matching material) surrounding trees and within beds to 75mm at the end of the maintenance period.

Watering:
Plant stock to receive the following quantities of water:
Trees: Regularly water each tree per month dependant on size, soil conditions and weather conditions between April and September.
Shrubs and transplants: 5 litres/plant on three occasions throughout growing season.
Watering to be undertaken during the first 24 months as needed to maintain plant health.

Grass Maintenance:
Grass shall be cut throughout the growing season to maintain a sward of approximately 38mm. Shall be edged, watered as necessary and clippings removed.

Wildflower Maintenance:
WFG20 Eco Species Rich Lawn Maintenance
First Cut: Mid September - 1st October. Cutting height approximately 70mm.
Thereafter: shall be cut 1 time a year mid-August to early October to maintain a sward of approximately 70mm.
The arisings are to be collected and removed just after the cut to prevent nutrient build up.

Germinal WF19 Pollinators Paradise Maintenance
First Cut: Mid September - 1st October. Cutting height approximately 70mm.
Thereafter: shall be cut 1 time a year from early September to maintain a sward of approximately 70mm.
The arisings are to be collected and removed just after the cut to prevent nutrient build up.

New Tree/Shrub Planting:
Weed control by hand to ensure planting area is weed free. Check stakes and guards are in place and replace where necessary. Prune, thin and remove suckers, seedlings, dead, damaged, or diseased branches annually between October and January to avoid the bird nesting season. Replace dead / dying stock in winter.

Plant replacements:
All dead, dying and vandalised plant stock shall be replaced, at the end of each growing season during the maintenance period.

Fertilising:
Apply Pro Flora Tablets to all plants, as per manufacturers specification. Apply once during years 2 and 4 after planting.

Application rate as follows:
Application rate for trees
- Transplant - 30-120cm Tree Height - 2 per plant - 30g
- Selected Standard - 300-360cm Tree Height - 7 per plant - 105g
- Heavy Standard - 360-425cm Tree Height - 8 per plant - 120g

Application rate for shrubs
- 10-20 height - 1 per plant - 15g
- 20-40 height - 2 per plant - 30g
- 40-60 height - 3 per plant - 45g
- 60-80 height - 4 per plant - 60g
- 80-100 height - 5 per plant - 75g
- 100+ height - 5 per plant - 75g

Fertilising products to be supplied by Green-tech or similar approved.

Planting Schedule

Trees							
Number of Plants	Abbreviation	Species	Specification	Height	Girth	Density	
2 -	BET PEN	Betula pendula	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm	Counted	
3 -	BET PUB	Betula pubescens	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm	Counted	
5 -	BET JAC	Betula utilis jacquemontii	Selected Standard: 5 brks: 2x: RB: Clear Stem 175-200cm	300-350cm	10-12cm	Counted	
2 -	CAR BET	Carpinus betulus	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm	Counted	
7 -	CRA SCA	Crataegus laevigata 'Paul's Scarlet'	Selected Standard: 4 brks: 2x: RB: Clear Stem 175-200cm	300-350cm	10-12cm	Counted	
3 -	PRU AVI	Prunus avium	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm	Counted	
5 -	PYR CHA	Pyrus calleryana 'Chanticleer'	Selected Standard: 4 brks: 2x: RB: Clear Stem 175-200cm	300-350cm	10-12cm	Counted	
1 -	QUE ROB	Quercus robur	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm	Counted	
7 -	SOR ROY	Sorbus aucuparia 'Cardinal Royal'	Selected Standard: 4 brks: 2x: RB: Clear Stem 175-200cm	300-350cm	10-12cm	Counted	
Total :35 -							

Shrubs

Number of Plants	Abbreviation	Species	Specification	Height	Pot Size	Density	Area
96 -	BER NAN	Berberis thunbergii 'Atropurpurea Nana'	Branched: 4 brks: C	20-25cm	3L	7/m²	13.3832m²
70 -	BUD KNI	Buddleja davidii 'Black Knight'	Branched: 4 brks: C	40-60cm	3L	5/m²	13.6481m²
42 -	CHO SUN	Choisya ternata 'Sundance'	Bushy: 4 brks: C	30-40cm	3L	6/m²	6.7948m²
15 -	COR PUR	Corylus maxima 'Purpurea'	Branched: 2 brks: C	40-60cm	3L	5/m²	2.8935m²
39 -	COT PUR	Cotinus coggygria 'Royal Purple'	Branched: 3 brks: C	30-40cm	3L	6/m²	6.3011m²
68 -	ELA EBB	Elaeagnus x ebbingei	Branched: 3 brks: C	30-40cm	3L	6/m²	11.2173m²
27 -	ESC SPI	Escallonia rubra 'Crimson Spire'	Bushy: 4 brks: C	40-60cm	3L	6/m²	4.4071m²
165 -	EUO QUE	Euonymus fortunei 'Silver Queen'	Bushy: 5 brks: C	20-30cm	3L	7/m²	23.0066m²
78 -	FOR LYN	Forsythia x intermedia 'Lynwood'	Branched: 4 brks: C	40-60cm	3L	5/m²	15.0314m²
79 -	GRI LIT	Griselinia littoralis	Bushy: 3 brks: C	40-60cm	3L	5/m²	15.2067m²
19 -	HEB ORM	Hebe 'Great Orme'	Bushy: 3 brks: C	30-40cm	3L	6/m²	3.0345m²
116 -	HEB GEM	Hebe 'White Gem'	Bushy: 5 brks: C	30-40cm	3L	6/m²	18.7282m²
76 -	HYP CAL	Hypericum calycinum	Bushy: 6 brks: C	20-30cm	2L	7/m²	10.4678m²
87 -	LAV HID	Lavandula angustifolia 'Hidcote'	Bushy: 5 brks: C	20-30cm	3L	6/m²	13.966m²
137 -	LON PIL	Lonicer a pileolata	Bushy: 6 brks: C	30-40cm	3L	6/m²	22.068m²
48 -	OLE MAC	Olearia macrodonta	Bushy: 4 brks: C	40-60cm	3L	5/m²	9.2114m²
115 -	PER SPI	Perovskia 'Blue Spire'	Bushy: 3 brks: C	30-40cm	3L	6/m²	18.4457m²
156 -	PHO ROB	Photinia x fraseri 'Red Robin'	Branched: 6 brks: C	30-40cm	3L	6/m²	25.3564m²
69 -	POT TAN	Potentilla fruticosa 'Tangerine'	Bushy: 4 brks: C	30-40cm	3L	6/m²	11.1496m²
155 -	PRU LUS	Prunus lusitanica	Bushy: 4 brks: C	30-40cm	3L	5/m²	30.52m²
38 -	SPI PRI	Spiraea japonica 'Little Princess'	Bushy: 5 brks: C	20-30cm	2L	7/m²	5.2704m²
Total :1695 -							Total :280.1078m²

Formal Hedge

Number	Abbreviation	Species	Specification	Height	Pot Size	Density	Length
289 -	PRU LUY	Prunus laurocerasus 'Otto Luyken'	Bushy: 3 brks: C	40-50cm	2L	3/m	95.2165m
Total :289 -							Total :95.2165m

Native Hedgerow Mix

Number	Abbreviation	Species	Specification	Height	Pot Size	Density	Percentage Contribution	Length
102 -	COR AVE	Corylus avellana	1+2: Transplant - seed raised: Branched: 3 brks: B	60-80cm		0.33Ctr	Double Staggered at 0.3m offset	15% 16.8011m
273 -	CRA MON	Crataegus monogyna	1+1: Transplant - seed raised: B	60-80cm		0.33Ctr	Double Staggered at 0.3m offset	40% 44.803m
102 -	ILE AQU	Ilex aquifolium	Leader with Laterals: C	40-60cm	3L	0.33Ctr	Double Staggered at 0.3m offset	15% 16.8011m
137 -	PRU SPI	Prunus spinosa	1+1: Transplant - seed raised: Branched: 2 brks: B	60-80cm		0.33Ctr	Double Staggered at 0.3m offset	20% 22.4015m
35 -	ROS ARV	Rosa arvensis	1+1: Transplant - seed raised: Branched: 2 brks: B	60-80cm		0.33Ctr	Double Staggered at 0.3m offset	5% 5.6003m
35 -	ROS CAN	Rosa canina	1+1: Transplant - seed raised: Branched: 3 brks: B	60-80cm		0.33Ctr	Double Staggered at 0.3m offset	5% 5.6003m
Total :684 -								Total :112.0073m

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A	Minor Amendments	CN	07/09/23
REV	DESCRIPTION	BY	DATE

Ascerta
Landscape | Trees | Ecology
t: 0845 463 4404
e: info@landscapetreeseecology.com
www.landscapetreeseecology.com

CLIENT: Ecodestone Homes
PROJECT: Langley Lane, Birch

DRAWING TITLE: Planting Plan (Sheet 2 of 2)

SCALE: NTS @ A0
DRAWN BY: AC
CHKD BY: CN
DATE: 23/08/2023
DRAWING NO: P.1885.23.01
REV: A