Plant Schedule

Trees

Number of Plants	Abbreviation	Species	Specification	Height	Girth	Density
6 -	A ca	Acer campestre	Heavy Standard: 5 brks: 3x: RB: Clear Stem minimum 200cm	350-425cm	12-14cm	Counted
13 -	A ca 'El'	Acer campestre 'Elsrijk'	Heavy Standard: 5 brks: 3x: RB: Clear Stem minimum 200cm	350-425cm	12-14cm	Counted
8 -	ACEOLMA	Acer platanoides 'Olmsted'	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm	Counted
3 -	ALN GLU	Alnus glutinosa	Heavy Standard: 5 brks: 3x: RB: Clear Stem min. 200cm	350-425cm	12-14cm	Counted
14 -	A lam	Amelanchier lamarckii	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	300-350cm	12-14cm	Counted
2 -	BET PEN	Betula pendula	Extra Heavy Standard: 3x: RB: Clear Stem min. 200cm	450-500cm	18-20cm	Counted
12 -	B pub	Betula pubescens	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm	Counted
7 -	C be 'F F'	Carpinus betulus 'Frans Fontaine'	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm	Counted
10 -	PRU PAD	Prunus padus	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm	Counted
4 -	PRUPADA	Prunus padus	Extra Heavy Standard: 3x: RB: Clear Stem min. 200cm	450-500cm	18-20cm	Counted
15 -	PRUPAAL	Prunus padus 'Albertii'	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm	Counted
9 -	Q pe	Quercus petraea	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm	Counted
3 -	QUE ROB	Quercus robur	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm	Counted
4 -	S c	Salix caprea	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm	Counted

Total :110 -

Shrubs

Number of Plants	Abbreviation	Species	Specification	Height	Pot Size	Density	Area
192 -	BER NAN	Berberis thunbergii 'Atropurpurea Nana'	Branched: 4 brks: C	20-25cm	3L	4/m²	48m²
84 -	BRA SUN	Brachyglottis 'Sunshine'	Branched: 4 brks: C	30-40cm	3L	3/m²	20.2m²
7 -	CEA MOU	Ceanothus 'Blue Mound'	Branched: 5 brks: C		3L	3/m²	2.2m²
3 -	CEA REP	Ceanothus thyrsiflorus repens	Bushy: 5 brks: C		3L	3/m²	1m²
5 -	CHO PEA	Choisya 'Aztec Pearl'	Bushy: 5 brks: C	30-40cm	3L	3/m²	1.6m²
12 -	CHO SUN	Choisya ternata 'Sundance'	Bushy: 4 brks: C	30-40cm	3L	3/m²	3.5m²
4 -	CIS PIN	Cistus 'Silver Pink'	Bushy: 4 brks: C	20-30cm	3L	3/m²	1.2m²
3 -	COR ELE	Cornus alba 'Elegantissima'	Branched: 4 brks: C	40-60cm	3L	3/m²	0.9m²
18 -	COT PUR	Cotinus coggygria 'Royal Purple'	Branched: 3 brks: C	30-40cm	3L	3/m²	5.5m²
9 -	ELA EBB	Elaeagnus x ebbingei	Branched: 3 brks: C	30-40cm	3L	3/m²	2.7m²
151 -	ERI PIN	Erica carnea 'Springwood Pink'	Bushy: C		3L	3/m²	28.8m²
92 -	ERI WHI	Erica carnea 'Springwood White'	Bushy: C		3L	5/m²	17.3m²
190 -	EUO GAI	Euonymus fortunei 'Emerald Gaiety'	Bushy: 7 brks: C	20-30cm	3L	3/m²	58.7m²
14 -	EUO QUE	Euonymus fortunei 'Silver Queen'	Bushy: 5 brks: C	20-30cm	3L	3/m²	4.4m²
4 -	FUC POP	Fuchsia 'Mrs Popple'	Bushy: 5 brks: C	20-30cm	3L	3/m²	1.2m²
9 -	GEN LYD	Genista lydia	Bushy: 5 brks: C		3L	3/m²	2.8m²
87 -	HEB GLO	Hebe 'Autumn Glory'	Bushy: 5 brks: C	20-30cm	3L	3/m²	26.8m²
24 -	HEB GEM	Hebe 'Green Globe'	Bushy: 7 brks: C	15-20cm	3L	7/m²	3.4m²
69 -	HEB WIN	Hebe 'Mrs Winder'	Bushy: 5 brks: C	30-40cm	3L	3/m²	20.4m²
46 -	HEB RAK	Hebe rakaiensis	Bushy: 5 brks: C		3L	3/m²	14.2m²
29 -	HYD WAV	Hydrangea macrophylla 'Blue Wave'	Branched: 5 brks: C	40-60cm	5L	2/m²	12.8m²
13 -	HYD LIM	Hydrangea paniculata Little Lime	Branched: 3 brks: C	30-40cm	3L	3/m²	4.2m²
61 -	HYD BLU	Hydrangea serrata 'Bluebird'	Branched: 5 brks: C	40-60cm	5L	2/m²	27.1m²
32 -	LAV HID	Lavandula angustifolia 'Hidcote'	Bushy: 5 brks: C	20-30cm	3L	3/m²	8.9m²
9 -	LON PIL	Lonicera pileata	Bushy: 6 brks: C		3L	3/m²	2.8m²
39 -	MAH APO	Mahonia aquifolium 'Apollo'	Branched: 2 brks: C	20-30cm	3L	3/m²	8.7m²
93 -	PHO ROB	Photinia x fraseri 'Little Red Robin'	Bushy: 6 brks: C	30-40cm	3L	4/m²	21.7m²
6 -	PIE FLA	Pieris 'Forest Flame'	Bushy: 3 brks: C	30-40cm	3L	3/m²	1.8m²
51 -	POT ABB	Potentilla fruticosa 'Abbotswood'	Bushy: 3 brks: C		3L	3/m²	15.3m²
44 -	POT ELI	Potentilla fruticosa 'Elizabeth'	Bushy: 3 brks: C		2L	4/m²	10.4m²
12 -	PRU LUS	Prunus lusitanica	Bushy: 4 brks: C	30-40cm	3L	2/m²	5.1m²
23 -	SAN CHA	Santolina chamaecyparissus	Bushy: 7 brks: C	20-30cm	3L	3/m²	7.7m²
109 -	SKI RUB	Skimmia japonica 'Rubella'	Bushy: 3 brks: C	30-40cm	3L	4/m²	25.9m²
10 -	SPI PRI	Spiraea japonica 'Little Princess'	Bushy: 7 brks: C	20-30cm	3L	3/m²	2.9m²
19 -	VIB DAV	Viburnum davidii	Bushy: 3 brks: C	20-30cm	3L	3/m²	4.4m²
19 -	VIB PRI	Viburnum tinus 'Eve Price'	Bushy: 4 brks: C	30-40cm	3L	2/m²	7.6m²
12 -	VIN MAJ	Vinca major	Several Shoots: 3 brks: C		3L	3/m²	3.6m²

Total :1558 - Total :430.5m²

Herbaceous

Number of Plants	Abbreviation	Species	Specification	Height	Pot Size	Density	Area
23 -	ALC MOL	Alchemilla mollis	Full Pot: C		3L	3/m²	7.1m²
20 -	AST F AN	Astilbe 'Fanal'	Full Pot: C		3L	4/m²	4.6m²
14 -	AST GRA	Astilbe 'Granat'	Full Pot: C		3L	4/m²	3.4m²
47 -	BER COR	Bergenia cordifolia	Full Pot: C		3L	5/m²	8.8m²
13 -	ECH MAG	Echinacea purpurea 'Magnus'	Full Pot: C		3L	4/m²	3.1m²
10 -	EUP ROB	Euphorbia amygdaloides robbiae	Full Pot: C		3L	5/m²	1.9m²
54 -	GER BLU	Geranium 'Johnson's Blue'	Full Pot: C		3L	4/m²	12.5m²
51 -	GER ALB	Geranium macrorrhizum 'Album'	Full Pot: C		3L	4/m²	12.4m²
35 -	HEU RUF	Heuchera 'Chocolate Ruffles'	Full Pot: C		3L	4/m²	8.2m²
123 -	HEU MAR	Heuchera 'Marmalade'	Full Pot: C		3L	4/m²	29m²
23 -	HEU PUR	Heuchera micrantha 'Palace Purple'	Full Pot: C		3L	4/m²	5.1m²
12 -	RUD GOL	Rudbeckia fulgida sullivantii 'Goldsturm'	Full Pot: C		3L	4/m²	2.7m²
7 -	SAL TRI	Salvia officinalis 'Tricolor'	Full Pot: C		3L	4/m²	1.6m²

Total :436 - Total :100.4m²

Formal Hedge

Number	Abbreviation	Species	Specification	Height	Pot Size	Density	Length
4512 -	ILE AQU	Ilex aquifolium	Bushy: 3 brks: C	40-60cm	3L	4/m	1115.2m

Total :1115.2m

Grass Areas

Seed Mix Name	Seed Mix Supplier	Density	Area
RE3	Germinal	5g/m²	929.4m²
WF19	Germinal	2g/m²	349.6m²

Total :1279m²

Native Hedgerow Mix 1

Number	Abbreviation	Species	Specification	Height	Pot Size	Density	Percentage Contribution	Length
149 -	COR AVE	Corylus avellana	1+2: Transplant - seed raised: Branched: 3 brks: B	60-80cm		0.3Ctr Double Staggered at 0.3m offset	15%	22.1m
396 -	CRA MON	Crataegus monogyna	1+1: Transplant - seed raised: B	60-80cm		0.3Ctr Double Staggered at 0.3m offset	40%	59m
149 -	ILE AQU	Ilex aquifolium	Leader with Laterals: C	40-60cm	3L	0.3Ctr Double Staggered at 0.3m offset	15%	22.1m
100 -	MAL SYL	Malus sylvestris	1+1: Transplant - seed raised: B	60-80cm		0.3Ctr Double Staggered at 0.3m offset	10%	14.8m
100 -	PRU SPI	Prunus spinosa	1+1: Transplant - seed raised: Branched: 2 brks: B	60-80cm		0.3Ctr Double Staggered at 0.3m offset	10%	14.8m
100 -	VIBOP	Viburnum opulus	1+2: Transplant - seed raised: Branched: 3 brks: B	60-80cm		0.3Ctr Double Staggered at 0.3m offset	10%	14.8m

Total :994 - Total :147.6m

Native Hedgerow Mix 2

Number	Abbreviation	Species	Specification	Height	Pot Size	Density	Percentage Contribution	Length
96 -	ACE CAM	Acer campestre	1+1: Transplant - seed raised: B	60-80cm		0.3Ctr Double Staggered at 0.3m offset	10%	14.1m
142 -	COR AVE	Corylus avellana	1+2: Transplant - seed raised: Branched: 3 brks: B	60-80cm		0.3Ctr Double Staggered at 0.3m offset	15%	21.1m
378 -	CRA MON	Crataegus monogyna	1+1: Transplant - seed raised: B	60-80cm		0.3Ctr Double Staggered at 0.3m offset	40%	56.5m
142 -	ILE AQU	Ilex aquifolium	Leader with Laterals: C	40-60cm	3L	0.3Ctr Double Staggered at 0.3m offset	15%	21.1m
96 -	PRU SPI	Prunus spinosa	1+1: Transplant - seed raised: Branched: 2 brks: B	60-80cm		0.3Ctr Double Staggered at 0.3m offset	10%	14.1m
96 -	VIBOP	Viburnum opulus	1+2: Transplant - seed raised: Branched: 3 brks: B	60-80cm		0.3Ctr Double Staggered at 0.3m offset	10%	14.1m

Total :950 - Total :141m

Native Hedgerow Mix 3

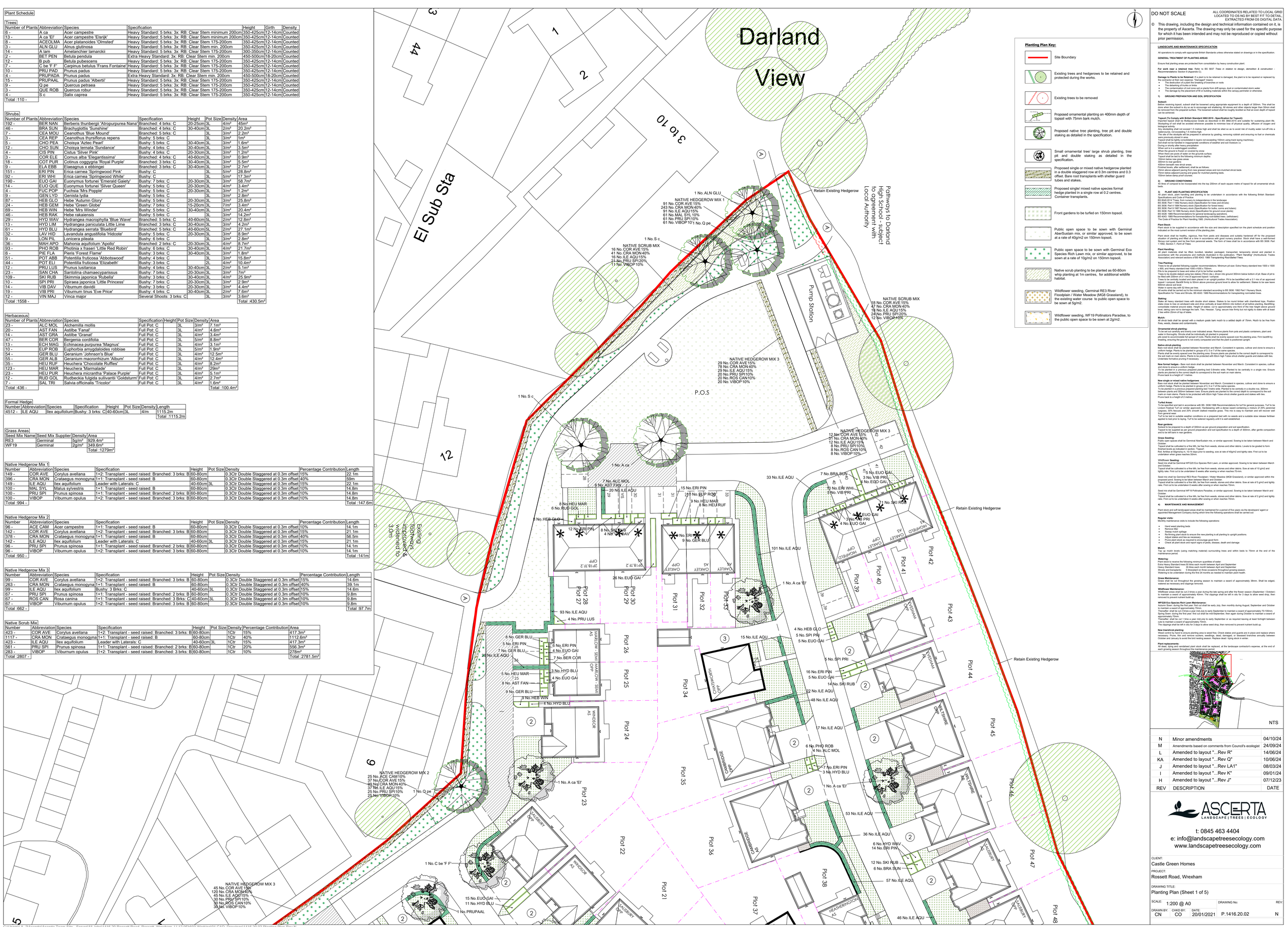
Number	Abbreviation	Species	Specification	Height	Pot Size	Density	Percentage Contribution	Length
99 -	COR AVE	Corylus avellana	1+2: Transplant - seed raised: Branched: 3 brks: B	60-80cm		0.3Ctr Double Staggered at 0.3m offset	15%	14.6m
263 -	CRA MON	Crataegus monogyna	1+1: Transplant - seed raised: B	60-80cm		0.3Ctr Double Staggered at 0.3m offset	40%	39.1m
99 -	ILE AQU	Ilex aquifolium	Bushy: 3 Brks: C	40-60cm	3L	0.3Ctr Double Staggered at 0.3m offset	15%	14.6m
67 -	PRU SPI	Prunus spinosa	1+1: Transplant - seed raised: Branched: 2 brks: B	60-80cm		0.3Ctr Double Staggered at 0.3m offset	10%	9.8m
67 -	ROS CAN	Rosa canina	1+1: Transplant - seed raised: Branched: 3 Brks: C	40-60cm	3L	0.3Ctr Double Staggered at 0.3m offset	10%	9.8m
67 -	VIBOP	Viburnum opulus	1+2: Transplant - seed raised: Branched: 3 brks: B	60-80cm		0.3Ctr Double Staggered at 0.3m offset	10%	9.8m

Total :662 - Total :97.7m

Native Scrub Mix

Number	Abbreviation	Species	Specification	Height	Pot Size	Density	Percentage Contribution	Area
423 -	COR AVE	Corylus avellana	1+2: Transplant - seed raised: Branched: 3 brks: B	60-80cm		1Ctr	15%	417.3m²
1117 -	CRA MON	Crataegus monogyna	1+1: Transplant - seed raised: B	60-80cm		1Ctr	40%	1112.6m²
423 -	ILE AQU	Ilex aquifolium	Leader with Laterals: C	40-60cm	3L	1Ctr	15%	417.3m²
561 -	PRU SPI	Prunus spinosa	1+1: Transplant - seed raised: Branched: 2 brks: B	60-80cm		1Ctr	20%	556.3m²
283 -	VIBOP	Viburnum opulus	1+2: Transplant - seed raised: Branched: 3 brks: B	60-80cm		1Ctr	10%	278m²

Total :2807 - Total :2781.5m²



Planting Plan Key:

- Site Boundary
- Existing trees and hedgerows to be retained and protected during the works.
- Existing trees to be removed
- Proposed ornamental planting on 400mm depth of topsoil with 75mm bark mulch.
- Proposed native tree planting, tree pit and double staking as detailed in the specification.
- Small ornamental tree/ large shrub planting, tree pit and double staking as detailed in the specification.
- Proposed single or mixed native hedgerow planted in a double staggered row at 0.3m centres and 0.3 offset. Bare root transplants with shelter guard tubes and stakes.
- Proposed single/ mixed native species formal hedge planted in a single row at 0.2 centres. Container transplants.
- Front gardens to be turfed on 150mm topsoil.
- Public open space to be sown with Germinal AberSustain mix, or similar approved, to be sown at a rate of 40g/m2 on 150mm topsoil.
- Public open space to be sown with Germinal Eco Species Rich Lawn mix, or similar approved, to be sown at a rate of 10g/m2 on 150mm topsoil.
- Native scrub planting to be planted as 60-80cm whip planting at 1m centres, for additional wildlife habitat.
- Wildflower seeding, Germinal RE3 River Floodplain / Water Meadow (MG8 Grassland), to be sown at 5g/m2.
- Wildflower seeding, WF19 Pollinators Paradise, to the public open space to be sown at 2g/m2.

DO NOT SCALE

ALL COORDINATES RELATED TO LOCAL GRID
LOCATED TO OS NG BY BEST FIT TO DETAIL,
EXTRACTED FROM OS DIGITAL DATA

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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 5 (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 removal of any bark, branches or branches or roots
- The blistering 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:
Where remaining 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 wherever possible to minimise loss of physical quality, diffusion of oxygen and microbial activity.
Any stockpiling shall not exceed 1.5 metres high and shall be sited so as to avoid risk of muddy water runoff 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.
Soil shall be stored in heaps not exceeded 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 soil is in a condition unsuitable to provide surface.
Topsoil shall be laid to the following minimum depths:
150mm below new grass areas
300mm below trees
400mm beneath new shrub areas.
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
3 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 publications and Codes of Practice:
BS 4428:2014 Trees: from nursery to independence in the landscape.
BS 3936: Part 1 1992 Nursery stock (Specification for trees and shrubs)
BS 3936: Part 4 1984 Nursery stock (Specification for forest trees)
BS 3936: Part 5 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 on 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 root system, be well balanced 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, bunded, labelled, packaged, transported, temporarily stored and planted in accordance with the recommendations contained in British Standard 4043 "Transplanting Root-balled Trees" (Horticultural Trades Association) and relevant sections of BS 4043: 1989 *Transplanting Root-Balled Trees*.

Tree Planting:
Trees to be of planted following supplier recommendations. Minimum pit size: Extra Heavy standard tree 1500 x 1500 x 900, and Heavy standard tree 1000 x1000 x 750mm.
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 300mm below bottom of pit. Base of pit to be filled with 150mm of well rotted farmyard manure.
Trees to be centrally located when placed in an upright position. Pit to be backfilled with a 3:1 mix of an approved topsoil / compost. Backfill firmly to 50mm above previous ground level to allow for settlement. Stakes to be save leave 600mm above soil level.
Water in same day with 52 litres per tree.
Trees to be supplied in accordance with 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:
Stake all heavy standard trees with double short stakes. 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 one third of the tree height above ground level, taking care not to damage the bark. Ties: Hessian. Tying: secure tree firmly but not rigidly to stake with at least 2 ties within 25mm of top of stake.

Mulch:
All shrub beds shall be spread with a medium grade bark mulch to a settled depth of 75mm. Mulch to be free from trees, 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 backfill with excavated soil. Ensure that roots are not damaged or restricted.
Pit sized to accommodate full spread of roots. Plants shall be evenly spaced over the planting area. Firm backfill by treading, ensuring the ground is not overly compacted and that the plant is positioned upright.

Native shrub planting:
Shrubs shall be set planted between November and March. Consistent in species, cultivar and clone to ensure a uniform hedge. Plants to be planted in groups of 3, 5 or 7 of the same species.
Plants shall be evenly spaced over the planting area. Ensure plants are planted to the correct depth to correspond to the soil mark on main stems. Plants to be protected with 60cm high Tubex shrub shelter guards and stakes with ties. Undertake formative pruning if necessary.

New formal hedges – Bare root stock shall be planted between November and March. Consistent in species, cultivar and clone to ensure a uniform hedge.
Bare root stock shall be planted between November and March. Consistent in species, cultivar and clone to ensure a uniform hedge. Plants to be planted in groups of 3, 5 or 7 of the same species.
To be planted in a previous prepared planting bed 1metre wide. Planted to be centrally in a double row, 300mm between plants and 300mm between rows. Ensure plants are planted to the correct depth to correspond to the soil mark on main stems. Plants to be protected with 60cm high Tubex shrub shelter guards and stakes with ties. Prune back to a height of 2 metres.

Turfed Areas:
To be specified and laid in accordance with BS: 3936:1998 Recommendations for turf for general purposes. Turf to be Lindum Festival Turf (or similar approved). Hardwearing with a dense sward containing a mixture of 20% perennial ryegrass, 55% fescues and 25% smooth stalked meadow grass. This mix is easy to maintain and will recover well from wear and tear.
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:
Topsoil to be supplied 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 50g/sq.m, in, 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:**
Seed mix shall be Germinal WF20 Eco Species Rich Lawn, 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. Sow at rate of 10 g/m2 and lightly rake. First cut to be undertaken 8 weeks after sowing or when reaches 70mm.

Seed mix shall be Germinal RE3 River Floodplain / Water Meadow (MG8 Grassland), or similar approved within the Flood Zone. Sowing to be taken between March and October.
Topsoil shall be cultivated to a fine tilth, be free from weeds, stones and other debris. Sow at rate of 5 g/m2 and lightly rake. First cut to be undertaken 8 weeks after sowing or when reaches 70mm.

Seed mix shall be Germinal WF19 Pollinators Paradise, 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. Sow at rate of 2 g/m2 and lightly rake. First cut to be undertaken 8 weeks after sowing or when reaches 70mm.

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
- Litter collection
- Sweep mulch spillage
- Re-firming plant stock to ensure the new planting is all planting to upright positions.
- Replacement of dead or damaged plants
- Prune plant stock as required to encourage good form.
- Check all plant stock and report signs of pests, disease, death and damage

Mulch:
Apply bark 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 minimum quantities of water:
Extra Heavy Standard trees 50 litres each month between April and September
Heavy Standard trees 35 litres each month 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:**
Wildflower areas shall be cut 2 times a year during the late spring and after the flower season (September / October) to a height of approximately between 40mm. The clippings shall be left in situ for 3 days to allow seed drop, then removed to prevent nutrient build-up.

WF020 Eco Species Rich Lawn Maintenance:
Autumn Sown: during the first year: first cut shall be early July, then monthly during August, September and October to maintain a sward of approximately 70mm.
Thereafter: shall be cut 2 times a year mid-July to early September to maintain a sward of approximately 70-100mm.
Spring Sown: during the first year: first cut shall be mid-September, then again during October to maintain a sward of approximately 70mm.
Thereafter: shall be cut 1 time a year mid-July to early September or as required leaving at least fortnight between cuts to maintain a sward of approximately 70mm.
The clippings shall be left in situ for 3 days to allow seed drop, then removed to prevent nutrient build up.

New trees/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 landscape contractor's expense, at the end of each growing season throughout the maintenance period.

NTS

REV	DESCRIPTION	DATE
N	Minor amendments	04/10/24
M	Amendments based on comments from Council's ecologist	24/09/24
L	Amended to layout "...Rev R"	14/06/24
KA	Amended to layout "...Rev Q"	10/06/24
J	Amended to layout "...Rev LA1"	08/03/24
I	Amended to layout "...Rev K"	09/01/24
H	Amended to layout "...Rev J"	07/12/23

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CLIENT: Castle Green Homes

PROJECT: Rossett Road, Wrexham

DRAWING TITLE: Planting Plan (Sheet 1 of 5)

SCALE:	DRAWING No:	REV
1:200 @ A0	P.1416.20.02	N

DRAWN BY:	CHKD BY:	DATE:
CN	CO	20/01/2021

Plant Schedule

Trees

Number of Plants	Abbreviation	Species	Specification	Height	Girth	Density
6 -	A ca	Acer campestre	Heavy Standard: 5 brks: 3x: RB: Clear Stem minimum 200cm	350-425cm	12-14cm	Counted
13 -	A ca 'El'	Acer campestre 'Elsrijk'	Heavy Standard: 5 brks: 3x: RB: Clear Stem minimum 200cm	350-425cm	12-14cm	Counted
8 -	ACEOLMA	Acer platanoides 'Olmsted'	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm	Counted
3 -	ALN GLU	Alnus glutinosa	Heavy Standard: 5 brks: 3x: RB: Clear Stem min. 200cm	350-425cm	12-14cm	Counted
14 -	A lam	Amelanchier lamarckii	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	300-350cm	12-14cm	Counted
2 -	BET PEN	Betula pendula	Extra Heavy Standard: 3x: RB: Clear Stem min. 200cm	450-500cm	18-20cm	Counted
12 -	B pub	Betula pubescens	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm	Counted
7 -	C be 'F F'	Carpinus betulus 'Frans Fontaine'	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm	Counted
10 -	PRU PAD	Prunus padus	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm	Counted
4 -	PRUPADA	Prunus padus	Extra Heavy Standard: 3x: RB: Clear Stem min. 200cm	450-500cm	18-20cm	Counted
15 -	PRUPAAL	Prunus padus 'Albertii'	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm	Counted
9 -	Q pe	Quercus petraea	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm	Counted
3 -	QUE ROB	Quercus robur	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm	Counted
4 -	S c	Salix caprea	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm	Counted
Total :110 -						

Shrubs

Number of Plants	Abbreviation	Species	Specification	Height	Pot Size	Density	Area
192 -	BER NAN	Berberis thunbergii 'Atropurpurea Nana'	Branched: 4 brks: C	20-25cm	3L	4/m²	48/m²
46 -	BRA SUN	Brachyglottis 'Sunshine'	Branched: 4 brks: C	30-40cm	3L	2/m²	20.2/m²
7 -	CEA MOU	Ceanothus 'Blue Mound'	Branched: 4 brks: C		3L	3/m²	2.2/m²
3 -	CEA REP	Ceanothus thyrsiflorus repens	Bushy: 5 brks: C		3L	3/m²	1/m²
5 -	CHO PEA	Choisya 'Aztec Pearl'	Bushy: 5 brks: C	30-40cm	3L	3/m²	1.6/m²
12 -	CHO SUN	Choisya ternata 'Sundance'	Bushy: 4 brks: C	30-40cm	3L	3/m²	3.5/m²
4 -	CIS PIN	Cistus 'Silver Pink'	Bushy: 4 brks: C	20-30cm	3L	3/m²	1.2/m²
3 -	COR ELE	Cornus alba 'Elegantissima'	Branched: 4 brks: C	40-60cm	3L	3/m²	0.9/m²
18 -	COT PUR	Cotinus coggygria 'Royal Purple'	Branched: 3 brks: C	30-40cm	3L	3/m²	5.5/m²
9 -	ELA EBB	Elaeagnus x ebbingei	Branched: 3 brks: C	30-40cm	3L	3/m²	2.7/m²
151 -	ERI PIN	Erica carnea 'Springwood Pink'	Bushy: C		3L	5/m²	28.8/m²
92 -	ERI WHI	Erica carnea 'Springwood White'	Bushy: C		3L	5/m²	17.3/m²
190 -	EUO GAI	Euonymus fortunei 'Emerald Gaiety'	Bushy: 7 brks: C	20-30cm	3L	3/m²	58.7/m²
14 -	EUO QUE	Euonymus fortunei 'Silver Queen'	Bushy: 5 brks: C	20-30cm	3L	4/m²	9.4/m²
4 -	FUC POP	Fuchsia 'Mrs Popple'	Bushy: 5 brks: C	20-30cm	3L	3/m²	1.2/m²
9 -	GEN LYD	Genista lydia	Bushy: 5 brks: C		3L	3/m²	2.8/m²
87 -	HEB GLO	Hebe 'Autumn Glory'	Bushy: 5 brks: C	20-30cm	3L	3/m²	25.8/m²
24 -	HEB GEM	Hebe 'Green Globe'	Bushy: 7 brks: C	15-20cm	3L	7/m²	3.4/m²
69 -	HEB WIN	Hebe 'Mrs Winder'	Bushy: 5 brks: C	30-40cm	3L	3/m²	20.4/m²
46 -	HEB RAK	Hebe rakaiensis	Bushy: 5 brks: C		3L	3/m²	14.2/m²
60 -	HYD WAV	Hydrangea macrophylla 'Blue Wave'	Branched: 5 brks: C	40-60cm	5L	2/m²	12.6/m²
13 -	HYD LIM	Hydrangea paniculata Little Lime	Branched: 3 brks: C	30-40cm	3L	3/m²	4.2/m²
61 -	HYD BLU	Hydrangea serrata 'Bluebird'	Branched: 5 brks: C	40-60cm	5L	2/m²	27.1/m²
32 -	LAV HID	Lavandula angustifolia 'Hidcote'	Bushy: 5 brks: C	20-30cm	3L	3/m²	9.9/m²
9 -	LON PIL	Lonicera pileata	Bushy: 6 brks: C		3L	3/m²	2.8/m²
36 -	MAH APO	Mahonia aquifolium 'Apollo'	Branched: 2 brks: C	20-30cm	3L	3/m²	8.7/m²
93 -	PHO ROB	Photinia x fraseri 'Little Red Robin'	Bushy: 6 brks: C	30-40cm	3L	4/m²	21.7/m²
6 -	PHE FLA	Pieris 'Forest Flame'	Bushy: 5 brks: C	30-40cm	3L	3/m²	1.8/m²
51 -	POT ABB	Potentilla fruticosa 'Abbotswood'	Bushy: 4 brks: C		3L	3/m²	15.8/m²
44 -	POT ELI	Potentilla fruticosa 'Elizabeth'	Bushy: 3 brks: C		2L	4/m²	10.4/m²
12 -	PRU LUS	Prunus lusitanica	Bushy: 4 brks: C	30-40cm	3L	2/m²	5.1/m²
23 -	SAN CHA	Santolina chamaecyparissus	Bushy: 7 brks: C	20-30cm	3L	3/m²	7/m²
109 -	SKI RUB	Skimmia japonica 'Rubella'	Bushy: 3 brks: C	30-40cm	3L	4/m²	25.9/m²
10 -	SPI PRI	Spiraea japonica 'Little Princess'	Bushy: 7 brks: C	20-30cm	3L	3/m²	2.9/m²
14 -	VIB DAV	Viburnum davidii	Bushy: 3 brks: C	20-30cm	3L	3/m²	4.4/m²
19 -	VIB PRI	Viburnum tinus 'Eve Price'	Bushy: 4 brks: C	30-40cm	3L	2/m²	17.6/m²
12 -	VIN MAJ	Vinca major	Several Shoots: 3 brks: C		3L	3/m²	3.6/m²
Total :1558 -							Total :430.5m²

Herbaceous

Number of Plants	Abbreviation	Species	Specification	Height	Pot Size	Density	Area
23 -	ALC MOL	Alchemilla mollis	Full Pot: C		3L	3/m²	7.7/m²
20 -	AST FAN	Astilbe 'Fanal'	Full Pot: C		3L	4/m²	4.6/m²
14 -	AST GRA	Astilbe 'Granat'	Full Pot: C		3L	4/m²	3.4/m²
47 -	BER COR	Bergenia cordifolia	Full Pot: C		3L	5/m²	8.8/m²
13 -	ECH MAG	Echinacea purpurea 'Magnus'	Full Pot: C		3L	4/m²	3.1/m²
6 -	EUP ROB	Euphorbia amygdaloides robbiae	Full Pot: C		3L	5/m²	1.5/m²
54 -	GER BLU	Geranium 'Johnson's Blue'	Full Pot: C		3L	4/m²	12.5/m²
55 -	GER ALB	Geranium macrorrhizum 'Album'	Full Pot: C		3L	4/m²	12.4/m²
35 -	HEU RUF	Heuchera 'Chocolate Ruffles'	Full Pot: C		3L	4/m²	8.2/m²
123 -	HEU MAR	Heuchera 'Marmalade'	Full Pot: C		3L	4/m²	29/m²
23 -	HEU PUR	Heuchera micrantha 'Palace Purple'	Full Pot: C		3L	4/m²	5.7/m²
12 -	RUD GOL	Rudbeckia fulgida sullivantii 'Goldsturm'	Full Pot: C		3L	4/m²	2.7/m²
7 -	SAL TRI	Salvia officinalis 'Tricolor'	Full Pot: C		3L	4/m²	1.6/m²
Total :436 -							Total :100.4/m²

Formal Hedge

Number	Abbreviation	Species	Specification	Height	Pot Size	Density	Length
4512 -	ILE AQU	Ilex aquifolium	Bushy: 3 brks: C	40-60cm	3L	4/m	1115.2m
							Total :1115.2m

Grass Areas

Seed Mix Name	Seed Mix Supplier	Density	Area
RE3	Germinal	5g/m²	929.4m²
WF19	Germinal	2g/m²	349.6m²
			Total :1279m²

Native Hedgerow Mix 1

Number	Abbreviation	Species	Specification	Height	Pot Size	Density	Percentage Contribution	Length
149 -	COR AVE	Corylus avellana	1+2: Transplant - seed raised: Branched: 3 brks: B	60-80cm		0.3Ctr Double Staggered at 0.3m offset	15%	22.1m
396 -	CRA MON	Crataegus monogyna	1+1: Transplant - seed raised: B	60-80cm		0.3Ctr Double Staggered at 0.3m offset	40%	59m
149 -	ILE AQU	Ilex aquifolium	Leader with Laterals: C	40-60cm	3L	0.3Ctr Double Staggered at 0.3m offset	15%	22.1m
100 -	MAL SYL	Malus sylvestris	1+1: Transplant - seed raised: B	60-80cm		0.3Ctr Double Staggered at 0.3m offset	10%	14.8m
100 -	PRU SPI	Prunus spinosa	1+1: Transplant - seed raised: Branched: 2 brks: B	60-80cm		0.3Ctr Double Staggered at 0.3m offset	10%	14.8m
100 -	VIBOP	Viburnum opulus	1+2: Transplant - seed raised: Branched: 3 brks: B	60-80cm		0.3Ctr Double Staggered at 0.3m offset	10%	14.8m
Total :994 -								Total :147.6m

Native Hedgerow Mix 2

Number	Abbreviation	Species	Specification	Height	Pot Size	Density	Percentage Contribution	Length
96 -	ACE CAM	Acer campestre	1+1: Transplant - seed raised: B	60-80cm		0.3Ctr Double Staggered at 0.3m offset	10%	14.1m
142 -	COR AVE	Corylus avellana	1+2: Transplant - seed raised: Branched: 3 brks: B	60-80cm		0.3Ctr Double Staggered at 0.3m offset	15%	21.1m
378 -	CRA MON	Crataegus monogyna	1+1: Transplant - seed raised: B	60-80cm		0.3Ctr Double Staggered at 0.3m offset	40%	56.5m
142 -	ILE AQU	Ilex aquifolium	Leader with Laterals: C	40-60cm	3L	0.3Ctr Double Staggered at 0.3m offset	15%	21.1m
96 -	PRU SPI	Prunus spinosa	1+1: Transplant - seed raised: Branched: 2 brks: B	60-80cm		0.3Ctr Double Staggered at 0.3m offset	10%	14.1m
96 -	VIBOP	Viburnum opulus	1+2: Transplant - seed raised: Branched: 3 brks: B	60-80cm		0.3Ctr Double Staggered at 0.3m offset	10%	14.1m
Total :950 -								Total :141m

Native Hedgerow Mix 3

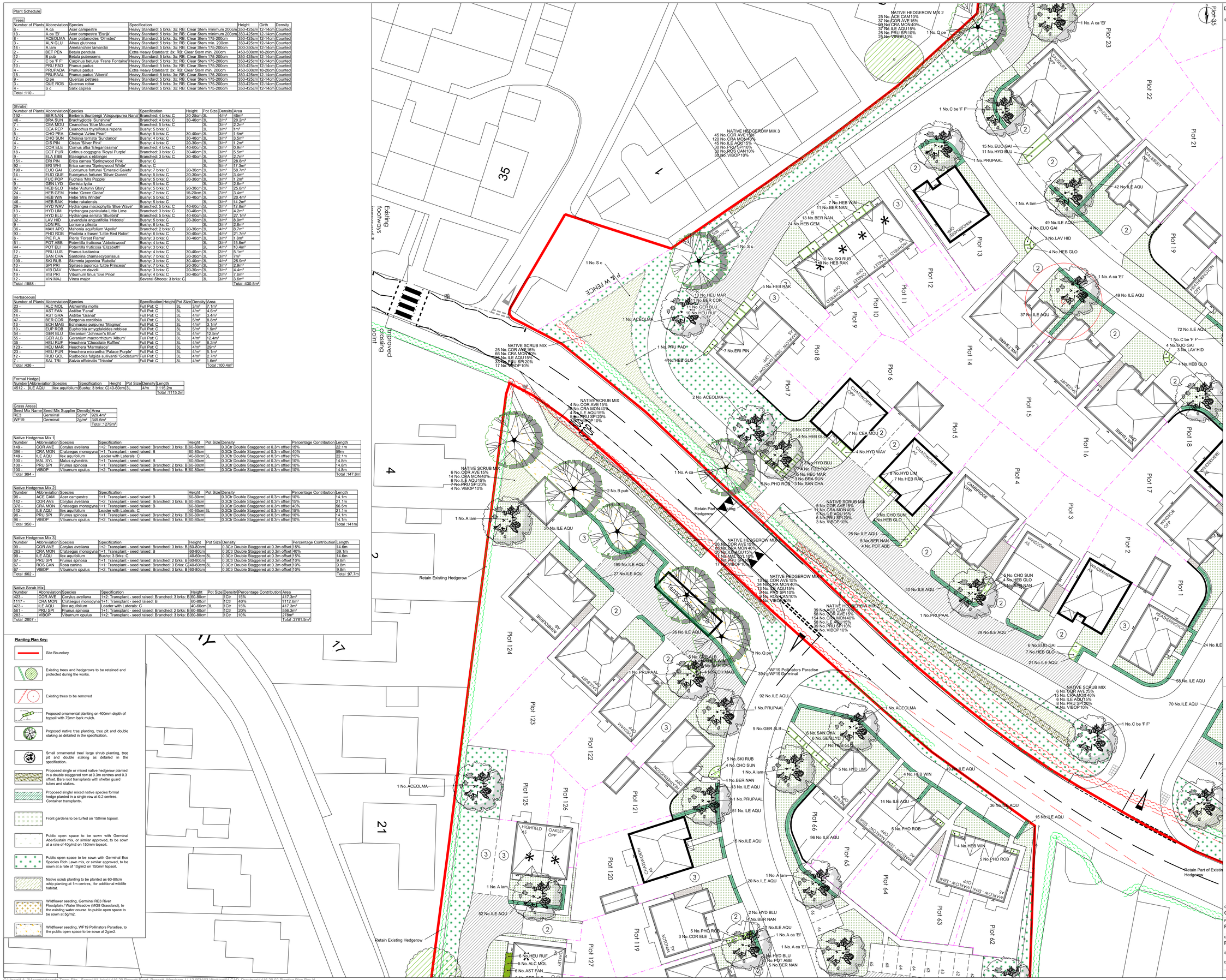
Number	Abbreviation	Species	Specification	Height	Pot Size	Density	Percentage Contribution	Length
99 -	COR AVE	Corylus avellana	1+2: Transplant - seed raised: Branched: 3 brks: B	60-80cm		0.3Ctr Double Staggered at 0.3m offset	15%	14.6m
263 -	CRA MON	Crataegus monogyna	1+1: Transplant - seed raised: B	60-80cm		0.3Ctr Double Staggered at 0.3m offset	40%	39.1m
99 -	ILE AQU	Ilex aquifolium	Bushy: 3 Brks: C	40-60cm	3L	0.3Ctr Double Staggered at 0.3m offset	15%	14.6m
67 -	PRU SPI	Prunus spinosa	1+1: Transplant - seed raised: Branched: 2 brks: B	60-80cm		0.3Ctr Double Staggered at 0.3m offset	10%	9.8m
67 -	ROS CAN	Rosa canina	1+1: Transplant - seed raised: Branched: 3 Brks: C	40-60cm	3L	0.3Ctr Double Staggered at 0.3m offset	10%	9.8m
67 -	VIBOP	Viburnum opulus	1+2: Transplant - seed raised: Branched: 3 brks: B	60-80cm		0.3Ctr Double Staggered at 0.3m offset	10%	9.8m
Total :662 -								Total :97.7m

Native Scrub Mix

Number	Abbreviation	Species	Specification	Height	Pot Size	Density	Percentage Contribution	Area
423 -	COR AVE	Corylus avellana	1+2: Transplant - seed raised: Branched: 3 brks: B	60-80cm		1Ctr	15%	417.3m²
1117 -	CRA MON	Crataegus monogyna	1+1: Transplant - seed raised: B	60-80cm		1Ctr	40%	1112.6m²
423 -	ILE AQU	Ilex aquifolium	Leader with Laterals: C	40-60cm	3L	1Ctr	15%	417.3m²
561 -	PRU SPI	Prunus spinosa	1+1: Transplant - seed raised: Branched: 2 brks: B	60-80cm		1Ctr	20%	556.3m²
283 -	VIBOP	Viburnum opulus	1+2: Transplant - seed raised: Branched: 3 brks: B	60-80cm		1Ctr	10%	278m²
Total :2807 -								Total :2781.5m²

Planting Plan Key:

- Site Boundary
- Existing trees and hedgerows to be retained and protected during the works.
- Existing trees to be removed
- Proposed ornamental planting on 400mm depth of topsoil with 75mm bark mulch.
- Proposed native tree planting, tree pit and double staking as detailed in the specification.
- Small ornamental tree/ large shrub planting, tree pit and double staking as detailed in the specification.
- Proposed single or mixed native hedgerow planted in a double staggered row at 0.3m centres and 0.3 offset. Bare root transplants with shelter guard tubes and stakes.
- Proposed single/ mixed native species formal hedge planted in a single row at 0.2 centres. Container transplants.
- Front gardens to be turfed on 150mm topsoil.
- Public open space to be sown with Germinal AberSustain mix, or similar approved, to be sown at a rate of 40g/m2 on 150mm topsoil.
- Public open space to be sown with Germinal Eco Species Rich Lawn mix, or similar approved, to be sown at a rate of 10g/m2 on 150mm topsoil.
- Native scrub planting to be planted as 60-80cm whip planting at 1m centres, for additional wildlife habitat.
- Wildflower seeding, Germinal RE3 River Floodplain / Water Meadow (MG8 Grassland), to the existing water course to public open space to be sown at 5g/m2.
- Wildflower seeding, WF19 Pollinators Paradise, to the public open space to be sown at 2g/m2.



DO NOT SCALE

ALL COORDINATES RELATED TO LOCAL GRID
LOCATED TO OS NG BY BEST FIT TO DETAIL.
EXTRACTED FROM OS DIGITAL DATA

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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 5 (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 removal of more than 25% of the branches or roots
- The debarking of trunks or branches
- 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 spreading 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 wherever possible to minimise loss of physical quality, diffusion of oxygen and microbial activity.
Any stockpiling shall not exceed 1.5 metres high and shall be sited so as to avoid risk of muddy water runoff 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 carefully distributed 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 in snow
When soil is in a condition unsuitable to receive turf or seeds surface.
Topsoil shall be laid to the following minimum depths:
150mm below new grass areas
300mm below trees
400mm beneath new shrub areas.
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
All trees (if 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 publications (latest editions):
BS 4043:1989 Recommendations for transplanting root-balled trees. (withdrawn)
BS 3936: Part 1:1992 Nursery stock (Specification for trees and shrubs)
BS 3936: Part 4:1984 Nursery stock (Specification for forest trees)
BS 3936: Part 5:1971 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 on 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 balanced top and shall be free from perennial weeds. The form of trees shall be in accordance with BS 3936 Part 1992, Section1, Form of Trees.

Plant Handling:
All plant materials shall be lifted, bundled, labelled, packaged, transported, temporarily stored and planted in accordance with the following British Standard publications (latest editions): 'Plant Handling' (Horticultural Trades Association) and Code of sections of BS 4043: 1989 'Transplanting Root-Balled Trees.

Tree Planting:
Trees to be of planted following supplier recommendations. Minimum pit size: Extra Heavy standard tree 1500 x 1500 x 900, and Heavy standard tree 1000 x1000 x 750mm.
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 300mm below bottom of pit. Base of pit to be filled with 150mm of topsoil / compost, Backfill firmly to 50mm above previous ground level to allow for settlement. Stakes to be sawe 600mm above soil level.
Water in same day with 52 litres per tree.
Trees to be supplied and planted to 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:
Stake all heavy standard trees with double short stakes. 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 one third of the tree height above ground level, taking care not to damage the bark. Ties: Hessian. Tying: secure tree firmly but not rigidly to stake with at least 2 ties within 25mm of top of stake.

Mulch:
All shrub beds shall be spread with a medium grade bark mulch to a settled depth of 75mm. Mulch to be free from trees, 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 backfill with excavated soil. Ensure plants are planted to the same depth as in container.
pits sized to accommodate full spread of roots. Plants shall be evenly spaced over the planting area. Firm backfill by treading, ensuring the ground is not overly compacted and that the plant is positioned upright.

Native shrub planting:
Native shrubs shall be planted between November and March. Consistent in species, cultivar and clone to ensure a uniform hedge. Plants to be planted in groups of 3, 5 or 7 of the same species.
Plants shall be evenly spaced over the planting area. Ensure plants are planted to the correct depth to correspond to the soil mark on main stems. Plants to be protected with 60cm high Tubex shrub shelter guards and stakes with ties. Undertake formative pruning if necessary.

New formal hedges – Bare root stock shall be planted between November and March. Consistent in species, cultivar and clone to ensure a uniform hedge.
Plants to be planted in a previous prepared planting bed 0.6metre wide. Planted to be centrally in a single row. 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.

New single or mixed native hedgerows
Bare-root stock shall be planted between November and March. Consistent in species, cultivar and clone to ensure a uniform hedge. Plants to be planted in groups of 3, 5 or 7 of the same species.
To be planted in a previous prepared planting bed 1metre wide. Planted to be centrally in a double row. 300mm between plants and rows. Ensure plants are planted to the correct depth to correspond to the soil mark on main stems. Plants to be protected with 60cm high Tubex shrub shelter guards and stakes with ties.
Prune back to a height of 2 metres.

Turfed Areas:
To be specified and laid in accordance with BS: 3936:1998 Recommendations for turf for general purposes. Turf to be Lindum Festival Turf (or similar approved). Hardwearing with a dense sward containing a mixture of 28% perennial ryegrass, 55% fescues and 20% smooth stalked meadow grass. This mix is easy to maintain and will recover well from wear and tear.
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:
To be cultivated 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 smooth surfaces, free from hollows and ridges.
Ref: fertilise at 50grms/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:
Public open space shall be Germinal WF/G20 Eco Species Rich Lawn, 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. Sow at rate of 10 g/m2 and lightly rake. First cut to be undertaken 8 weeks after sowing or when reaches 75mm.

Seed mix shall be Germinal RE3 River Floodplain / Water Meadow (MG8 Grassland), or similar approved within the proposed pond. Sowing to be taken between March and October.
Topsoil shall be cultivated to a fine tilth, be free from weeds, stones and other debris. Sow at rate of 5 g/m2 and lightly rake. First cut to be undertaken 8 weeks after sowing or when reaches 75mm.

Seed mix shall be Germinal WF19 Pollinators Paradise, 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. Sow at rate of 2 g/m2 and lightly rake. First cut to be undertaken 8 weeks after sowing or when reaches 75mm.

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
- Remove fallen spillage
- Re-firming and adjustment 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 minimum quantities of water:
Extra Heavy Standard trees 50 litres each month between April and September
Shrubs and hedges 10 litres/sqm on three occasions throughout growing season.
Shrubs and transplants 3 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, arisings removed as necessary and clippings removed.

Wildflower Maintenance:
Wildflower areas shall be cut 2 times a year during the late spring and after the flower season (September / October) to maintain a sward of approximately 40mm. The clippings shall be left in situ for 3 days to allow seed drop, then removed to prevent nutrient build up.

WF/G20 Eco Species Rich Lawn Maintenance:
Autumn Sown: during the first year: first cut shall be early July, then monthly during August, September and October to maintain a sward of approximately 70mm.
Spring Sown: during the first year: first cut shall be mid-July to early September to maintain a sward of approximately 70-100mm.
Spring Sown: during the first year: first cut shall be mid-September, then again during October to maintain a sward of approximately 70mm.
Thereafter: shall be cut 1 time a year mid-July to early September or as required leaving at least fortnight between cuts to maintain a sward of approximately 70mm.
The clippings shall be left in situ for 3 days to allow seed drop, then removed to prevent nutrient build up.

New trees/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 substandard plant stock shall be replaced, at the landscape contractor's expense, at the end of each growing season throughout the maintenance period.



NTS

REV	DESCRIPTION	DATE
N	Minor amendments	04/10/24
M	Amendments based on comments from Council's ecologist	24/09/24
L	Amended to layout "...Rev R"	14/06/24
KA	Amended to layout "...Rev Q"	10/06/24
J	Amended to layout "...Rev LA1"	08/03/24
I	Amended to layout "...Rev K"	09/01/24
H	Amended to layout "...Rev J"	07/12/23

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CLIENT: Castle Green Homes

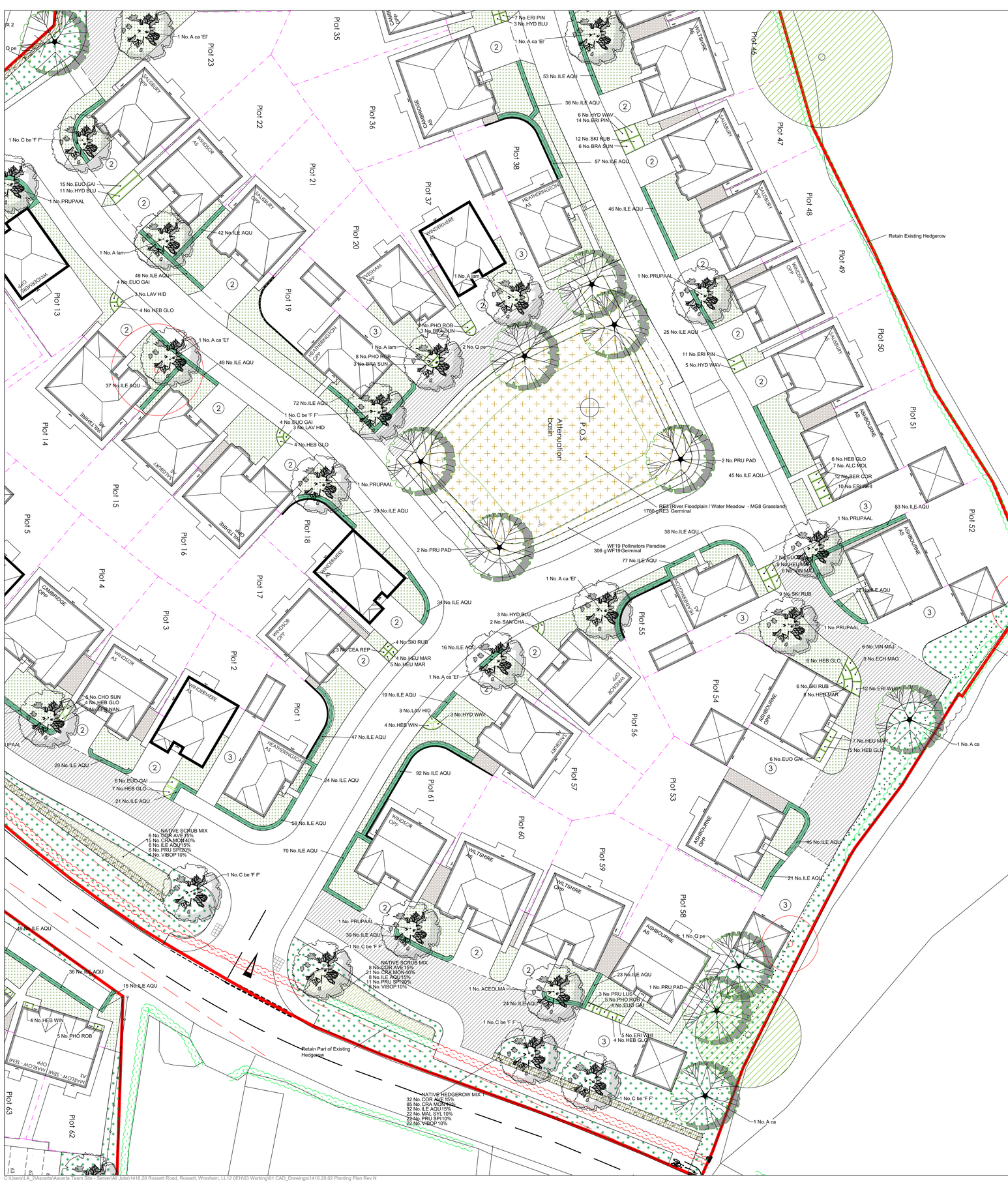
PROJECT: Rossett Road, Wrexham

DRAWING TITLE: Planting Plan (Sheet 2 of 5)

SCALE:	DRAWING No:	REV:
1:200 @ A0	P.1416.20.02	N

DRAWN BY:	CHKD BY:	DATE:
CN	CO	20/01/2021

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Plant Schedule

Trees

Number of Plants	Abbreviation	Species	Specification	Height	Girth	Density
6 -	A ca	Acer campestre	Heavy Standard: 5 brks: 3x: RB: Clear Stem minimum 200cm	350-425cm	12-14cm	Counted
13 -	A ca 'El'	Acer campestre 'Elsrijk'	Heavy Standard: 5 brks: 3x: RB: Clear Stem minimum 200cm	350-425cm	12-14cm	Counted
8 -	ACEOLMA	Acer platanoides 'Olmsted'	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm	Counted
3 -	ALN GLU	Alnus glutinosa	Heavy Standard: 5 brks: 3x: RB: Clear Stem min. 200cm	350-425cm	12-14cm	Counted
14 -	A lam	Amelanchier lamarckii	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	300-350cm	12-14cm	Counted
2 -	BET PEN	Betula pendula	Extra Heavy Standard: 3x: RB: Clear Stem min. 200cm	450-500cm	18-20cm	Counted
12 -	B pub	Betula pubescens	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm	Counted
7 -	C be 'F F'	Carpinus betulus 'Frans Fontaine'	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm	Counted
10 -	PRU PAD	Prunus padus	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm	Counted
4 -	PRUPADA	Prunus padus	Extra Heavy Standard: 3x: RB: Clear Stem min. 200cm	450-500cm	18-20cm	Counted
15 -	PRUPAAL	Prunus padus 'Alberti'	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm	Counted
9 -	Q pe	Quercus petraea	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm	Counted
3 -	QUE ROB	Quercus robur	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm	Counted
4 -	S c	Salix caprea	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm	Counted
Total :110 -						

Shrubs

Number of Plants	Abbreviation	Species	Specification	Height	Pot Size	Density	Area
192 -	BER NAN	Berberis thunbergii 'Atropurpurea Nana'	Branched: 4 brks: C	20-25cm	3L	4/m²	45m²
46 -	BRA SUN	Brachyglottis 'Sunshine'	Branched: 4 brks: C	30-40cm	3L	2/m²	20.2m²
7 -	CEA MOU	Ceanothus 'Blue Mound'	Branched: 5 brks: C		3L	3/m²	2.2m²
3 -	CEA REP	Ceanothus thyrsiflorus repens	Bushy: 5 brks: C		3L	3/m²	1m²
5 -	CHO PEA	Choisya 'Aztec Pearl'	Bushy: 5 brks: C	30-40cm	3L	3/m²	1.6m²
12 -	CHO SUN	Choisya ternata 'Sundance'	Bushy: 4 brks: C	30-40cm	3L	3/m²	3.5m²
4 -	CIS PIN	Cistus 'Silver Pink'	Bushy: 4 brks: C	20-30cm	3L	3/m²	1.2m²
3 -	COR ELE	Cornus alba 'Elegantissima'	Branched: 4 brks: C	40-60cm	3L	3/m²	0.9m²
18 -	COT PUR	Cotinus coggygria 'Royal Purple'	Branched: 3 brks: C	30-40cm	3L	3/m²	5.5m²
9 -	ELA EBB	Elaeagnus x ebbingei	Branched: 3 brks: C	30-40cm	3L	3/m²	2.7m²
151 -	ERI PIN	Erica carnea 'Springwood Pink'	Bushy: C		3L	5/m²	28.8m²
92 -	ERI WHI	Erica carnea 'Springwood White'	Bushy: C		3L	5/m²	17.3m²
190 -	EUO GAI	Euonymus fortunei 'Emerald Gaiety'	Bushy: 7 brks: C	20-30cm	3L	3/m²	58.7m²
14 -	EUO QUE	Euonymus fortunei 'Silver Queen'	Bushy: 5 brks: C	20-30cm	3L	4/m²	3.4m²
4 -	FUC POP	Fuchsia 'Mrs Popple'	Bushy: 5 brks: C	20-30cm	3L	3/m²	1.2m²
9 -	GEN LYD	Genista lydia	Bushy: 5 brks: C		3L	3/m²	2.8m²
87 -	HEB GLO	Hebe 'Autumn Glory'	Bushy: 5 brks: C	20-30cm	3L	3/m²	25.8m²
24 -	HEB GEM	Hebe 'Green Globe'	Bushy: 7 brks: C	15-20cm	3L	7/m²	3.4m²
69 -	HEB WIN	Hebe 'Mrs Winder'	Bushy: 5 brks: C	30-40cm	3L	3/m²	20.4m²
46 -	HEB RAK	Hebe rakaiensis	Bushy: 5 brks: C		3L	3/m²	14.2m²
290 -	HYD WAV	Hydrangea macrophylla 'Blue Wave'	Branched: 5 brks: C	40-60cm	5L	2/m²	12.8m²
13 -	HYD LIM	Hydrangea paniculata Little Lime	Branched: 3 brks: C	30-40cm	3L	3/m²	4.2m²
61 -	HYD BLU	Hydrangea serrata 'Bluebird'	Branched: 5 brks: C	40-60cm	5L	2/m²	27.1m²
32 -	LAV HID	Lavandula angustifolia 'Hidcote'	Bushy: 5 brks: C	20-30cm	3L	3/m²	8.9m²
9 -	LON PIL	Lonicera pileata	Bushy: 6 brks: C		3L	3/m²	2.8m²
36 -	MAH APO	Mahonia aquifolium 'Apollo'	Branched: 2 brks: C	20-30cm	3L	4/m²	8.7m²
93 -	PHO ROB	Photinia x fraseri 'Little Red Robin'	Bushy: 5 brks: C	30-40cm	3L	3/m²	21.7m²
6 -	PIE FLA	Pieris 'Forest Flame'	Bushy: 3 brks: C	30-40cm	3L	3/m²	1.8m²
51 -	POT ABB	Potentilla fruticosa 'Abbotswood'	Bushy: 4 brks: C		3L	3/m²	15.8m²
44 -	POT ELI	Potentilla fruticosa 'Elizabeth'	Bushy: 4 brks: C		2L	4/m²	10.4m²
12 -	PRU LUS	Prunus lusitanica	Bushy: 4 brks: C	30-40cm	3L	2/m²	5.1m²
23 -	SAN CHA	Santolina chamaecyparissus	Bushy: 7 brks: C	20-30cm	3L	3/m²	7m²
109 -	SKI RUB	Skimmia japonica 'Rubella'	Bushy: 5 brks: C	30-40cm	3L	4/m²	25.9m²
10 -	SPI PRI	Spiraea japonica 'Little Princess'	Bushy: 7 brks: C	20-30cm	3L	3/m²	2.9m²
14 -	VIB DAV	Viburnum davidii	Bushy: 3 brks: C	20-30cm	3L	3/m²	4.4m²
19 -	VIB PRI	Viburnum tinus 'Eve Price'	Bushy: 4 brks: C	30-40cm	3L	2/m²	7.6m²
12 -	VIN MAJ	Vinca major	Several Shoots: 3 brks: C		3L	3/m²	3.6m²
Total :1558 -							Total :430.5m²

DO NOT SCALE

ALL COORDINATES RELATED TO LOCAL GRID LOCATED TO OS NG BY BEST FIT TO DETAIL, EXTRACTED FROM OS DIGITAL DATA

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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 5 (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 removal of more than 25% of the canopy 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:
Prior to 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 wherever possible to minimise loss of physical quality, diffusion of oxygen and microbial activity.
Any stockpiling shall not exceed 1.5 metres high and shall be sited so as to avoid risk of muddy water runoff 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 carefully stockpiled 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 in snow
When soil is in a condition unsuitable for working on grounds surface.
Topsoil shall be laid to the following minimum depths:
150mm below new grass areas
300mm below trees
400mm beneath new shrub areas.
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
3 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 recommendations and Codes 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 1984 Nursery stock (Specification for forest trees)
BS 3936: Part 5 1971 Nursery stock (Specification for hedging plants, trees and bushes)
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 on 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 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 current recommendations of the National Plant Specification "Plant Handling" (Horticultural Trades Association) and relevant sections of BS 4043: 1989 Transplanting Root-Balled Trees.

Tree Planting:
Trees to be of planted following supplier recommendations. Minimum pit size: Extra Heavy standard tree 1500 x 1500 x 900, and Heavy standard tree 1000 x1000 x 750mm.
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 300mm below bottom of pit. Base of pit to be filled with 150mm of topsoil / compost, Backfill firmly to 50mm above previous ground level to allow for settlement. Stakes to be sawn 600mm above soil level.
Water in same day with 52 litres per tree.
Trees to be supplied in accordance with 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:
Stake all heavy standard trees with double short stakes. 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 one third of the tree height above ground level, taking care not to damage the bark. Ties: Hessian. Tying: secure tree firmly but not rigidly to stake with at least 2 ties within 25mm of top of stake.

Mulch:
All shrub beds shall be spread with a medium grade bark mulch to a settled depth of 75mm. Mulch to be free from tines, 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 backfill with excavated soil. Plant pits shall be excavated to a depth and width to
allow adequate space to accommodate full spread of roots. Plants shall be evenly spaced over the planting area. Firm backfill by treading, ensuring the ground is not overly compacted and that the plant is positioned upright.

Native shrub planting:
To be set out and planted between November and March. Consistent in species, cultivar and clone to ensure a uniform hedge. Plants to be planted in groups of 3, 5 or 7 of the same species.
Plants shall be evenly spaced over the planting area. Ensure plants are planted to the correct depth to correspond to the soil mark on main stems. Plants to be protected with 60cm high Tubex shrub shelter guards and stakes with ties. Undertake formative pruning if necessary.

New formal hedges – Bare root stock shall be planted between November and March. Consistent in species, cultivar and clone to ensure a uniform hedge.
Bare root stock shall be planted at a double staggered planting bed 0.6metre wide. Planted to be centrally in a single row. 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.

New single or mixed native hedgerows
Bare root stock shall be planted between November and March. Consistent in species, cultivar and clone to ensure a uniform hedge. Plants to be planted in groups of 3, 5 or 7 of the same species.
To be planted in a previous prepared planting bed 1metre wide. Planted to be centrally in a double row. 300mm between plants and 400mm between rows. Ensure plants are planted to the correct depth to correspond to the soil mark on main stems. Plants to be protected with 60cm high Tubex shrub shelter guards and stakes with ties.
Prune back to a height of 2 metres.

Turfed Areas:
To be specified and laid in accordance with BS: 3936:1998 Recommendations for turf for general purposes. Turf to be Lindum Festival Turf (or similar approved). Hardwearing with a dense sward containing a mixture of: 20% perennial ryegrass, 55% fescues and 25% smooth stalked meadow grass. This mix is easy to maintain and will recover well from wear and tear.
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:
Topsoil shall be spread 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 gentle undulations and to avoid hollows.
Rot. fertilise at 50g/sq.m.+L10-14 days prior to seeding, sow at rate of 40g/m2 and lightly rake. First cut to be undertaken when grass reaches 50mm.

Wildflower Seeding:
Seed mix shall be Germinal WF/G20 Eco Species Rich Lawn, 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. Sow at rate of 10 g/m2 and lightly rake. First cut to be undertaken 6 weeks after sowing or when reaches 70 mm.

Seed mix shall be Germinal RE3 River Floodplain / Water Meadow (MG8 Grassland), or similar approved within the proposed pond. Sowing to be taken between March and October.
Topsoil shall be cultivated to a fine tilth, be free from weeds, stones and other debris. Sow at rate of 5 g/m2 and lightly rake. First cut to be undertaken 6 weeks after sowing or when reaches 70mm.

Seed mix shall be Germinal WF19 Pollinators Paradise, 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. Sow at rate of 2 g/m2 and lightly rake. First cut to be undertaken 6 weeks after sowing or when reaches 70mm.

4) MAINTENANCE AND MANAGEMENT

Plant stock and self landscaped areas shall be maintained for a period of five years via the developers' agent or appointed Maintenance 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
- Remove fallen spillage
- Re-firming plant stock to ensure the new planting is at 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 minimum quantities of water:
Extra Heavy Standard trees 50 litres each month between April and September
Heavy Standard trees 25 litres each month between April and September
Shrubs and transplants 3 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:
Wildflower areas shall be cut 2 times a year during the late spring and after the flower season (September / October) to maintain a sward of approximately 40mm. The clippings shall be left in situ for 3 days to allow seed drop, then removed to prevent nutrient build up.

WF/G20 Eco Species Rich Lawn Maintenance:
Autumn Sown: during the first year: first cut shall be early July, then monthly during August, September and October to maintain a sward of approximately 70mm.
Spring Sown: during the first year: first cut shall be early September to maintain a sward of approximately 70-100mm.
Spring Sown: during the first year: first cut shall be mid-September, then again during October to maintain a sward of approximately 70mm.
Thereafter: shall be cut 1 time a year mid-July to early September or as required leaving at least fortnight between cuts to maintain a sward of approximately 70mm.
The clippings shall be left in situ for 3 days to allow seed drop, then removed 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 established plant stock shall be replaced, at the landscape contractor's expense, at the end of each growing season throughout the maintenance period.

Planting Plan Key:

- Site Boundary
- Existing trees and hedgerows to be retained and protected during the works.
- Existing trees to be removed
- Proposed ornamental planting on 400mm depth of topsoil with 75mm bark mulch.
- Proposed native tree planting, tree pit and double staking as detailed in the specification.
- Small ornamental tree/ large shrub planting, tree pit and double staking as detailed in the specification.
- Proposed single or mixed native hedgerow planted in a double staggered row at 0.3m centres and 0.3 offset. Bare root transplants with shelter guard tubes and stakes.
- Proposed single/ mixed native species formal hedge planted in a single row at 0.2 centres. Container transplants.
- Front gardens to be turfed on 150mm topsoil.
- Public open space to be sown with Germinal AberSustain mix, or similar approved, to be sown at a rate of 40g/m2 on 150mm topsoil.
- Public open space to be sown with Germinal Eco Species Rich Lawn mix, or similar approved, to be sown at a rate of 10g/m2 on 150mm topsoil.
- Native scrub planting to be planted as 60-80cm whip planting at 1m centres, for additional wildlife habitat.
- Wildflower seeding, Germinal RE3 River Floodplain / Water Meadow (MG8 Grassland), to the existing water course to public open space to be sown at 5g/m2.
- Wildflower seeding, WF19 Pollinators Paradise, to the public open space to be sown at 2g/m2.



NTS

N	Minor amendments	04/10/24
M	Amendments based on comments from Council's ecologist	24/09/24
L	Amended to layout "...Rev R"	14/06/24
KA	Amended to layout "...Rev Q"	10/06/24
J	Amended to layout "...Rev LA1"	08/03/24
I	Amended to layout "...Rev K"	09/01/24
H	Amended to layout "...Rev J"	07/12/23
REV	DESCRIPTION	DATE

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CLIENT:
Castle Green Homes

PROJECT:
Rossett Road, Wrexham

DRAWING TITLE:
Planting Plan (Sheet 3 of 5)

SCALE:	DRAWING No:	REV:
1:200 @ A0		
DRAWN BY: CN	CHKD BY: CO	DATE: 20/01/2021
	P.1416.20.02	N

Herbaceous

Number of Plants	Abbreviation	Species	Specification	Height	Pot Size	Density	Area
23 -	ALC MOL	Alchemilla mollis	Full Pot: C		3L	3/m²	7.1m²
20 -	AST FAN	Astilbe 'Fanal'	Full Pot: C		3L	4/m²	4.6m²
14 -	AST GRA	Astilbe 'Granat'	Full Pot: C		3L	4/m²	3.4m²
47 -	BER COR	Bergenia cordifolia	Full Pot: C		3L	5/m²	8.9m²
13 -	ECH MAG	Echinacea purpurea 'Magnus'	Full Pot: C		3L	4/m²	3.1m²
10 -	EUP ROB	Euphorbia amygdaloides robbiae	Full Pot: C		3L	5/m²	1.9m²
54 -	GER BLU	Geranium 'Johnson's Blue'	Full Pot: C		3L	4/m²	12.5m²
55 -	GER ALB	Geranium macrorrhizum 'Album'	Full Pot: C		3L	4/m²	12.4m²
35 -	HEU RUF	Heuchera 'Chocolate Ruffles'	Full Pot: C		3L	4/m²	8.2m²
123 -	HEU MAR	Heuchera 'Marmalade'	Full Pot: C		3L	4/m²	29m²
23 -	HEU PUR	Heuchera micrantha 'Palace Purple'	Full Pot: C		3L	4/m²	5.1m²
12 -	RUD GOL	Rudbeckia fulgida sullivantii 'Goldsturm'	Full Pot: C		3L	4/m²	2.7m²
7 -	SAL TRI	Salvia officinalis 'Tricolor'	Full Pot: C		3L	4/m²	1.6m²
Total :436 -							Total :100.4m²

Formal Hedge

Number	Abbreviation	Species	Specification	Height	Pot Size	Density	Length
4512 -	ILE AQU	Ilex aquifolium	Bushy: 3 brks: C	40-60cm	3L	4/m	1115.2m
							Total :1115.2m

Grass Areas

Seed Mix Name	Seed Mix Supplier	Density	Area
RE3	Germinal	5g/m²	929.4m²
WF19	Germinal	2g/m²	349.6m²
			Total :1279m²

Native Hedgerow Mix 1

Number	Abbreviation	Species	Specification	Height	Pot Size	Density	Percentage Contribution	Length
149 -	COR AVE	Corylus avellana	1+2: Transplant - seed raised: Branched: 3 brks: B	60-80cm		0.3Ctr Double Staggered at 0.3m offset	15%	22.1m
396 -	CRA MON	Crataegus monogyna	1+1: Transplant - seed raised: B	60-80cm		0.3Ctr Double Staggered at 0.3m offset	40%	59m
149 -	ILE AQU	Ilex aquifolium	Leader with Laterals: C	40-60cm	3L	0.3Ctr Double Staggered at 0.3m offset	15%	22.1m
100 -	MAL SYL	Malus sylvestris	1+1: Transplant - seed raised: B	60-80cm		0.3Ctr Double Staggered at 0.3m offset	10%	14.8m
100 -	PRU SPI	Prunus spinosa	1+1: Transplant - seed raised: Branched: 2 brks: B	60-80cm		0.3Ctr Double Staggered at 0.3m offset	10%	14.8m
100 -	VIBOP	Viburnum opulus	1+2: Transplant - seed raised: Branched: 3 brks: B	60-80cm		0.3Ctr Double Staggered at 0.3m offset	10%	14.8m
Total :994 -								Total :147.6m

Native Hedgerow Mix 2

Number	Abbreviation	Species	Specification	Height	Pot Size	Density	Percentage Contribution	Length
96 -	ACE CAM	Acer campestre	1+2: Transplant - seed raised: B	60-80cm		0.3Ctr Double Staggered at 0.3m offset	10%	14.1m
142 -	COR AVE	Corylus avellana	1+2: Transplant - seed raised: Branched: 3 brks: B	60-80cm		0.3Ctr Double Staggered at 0.3m offset	15%	21.1m
378 -	CRA MON	Crataegus monogyna	1+1: Transplant - seed raised: B	60-80cm		0.3Ctr Double Staggered at 0.3m offset	40%	56.5m
142 -	ILE AQU	Ilex aquifolium	Leader with Laterals: C	40-60cm	3L	0.3Ctr Double Staggered at 0.3m offset	15%	21.1m
96 -	PRU SPI	Prunus spinosa	1+1: Transplant - seed raised: Branched: 2 brks: B	60-80cm		0.3Ctr Double Staggered at 0.3m offset	10%	14.1m
96 -	VIBOP	Viburnum opulus	1+2: Transplant - seed raised: Branched: 3 brks: B	60-80cm		0.3Ctr Double Staggered at 0.3m offset	10%	14.1m
Total :950 -								Total :141m

Native Hedgerow Mix 3

Number	Abbreviation	Species	Specification	Height	Pot Size	Density	Percentage Contribution	Length
99 -	COR AVE	Corylus avellana	1+2: Transplant - seed raised: Branched: 3 brks: B	60-80cm		0.3Ctr Double Staggered at 0.3m offset	15%	14.6m
263 -	CRA MON	Crataegus monogyna	1+1: Transplant - seed raised: B	60-80cm		0.3Ctr Double Staggered at 0.3m offset	40%	39.1m
99 -	ILE AQU	Ilex aquifolium	Bushy: 3 Brks: C	40-60cm	3L	0.3Ctr Double Staggered at 0.3m offset	15%	14.6m
67 -	PRU SPI	Prunus spinosa	1+1: Transplant - seed raised: Branched: 2 brks: B	60-80cm		0.3Ctr Double Staggered at 0.3m offset	10%	9.8m
67 -	ROS CAN	Rosa canina	1+1: Transplant - seed raised: Branched: 3 Brks: C	40-60cm	3L	0.3Ctr Double Staggered at 0.3m offset	10%	9.8m
67 -	VIBOP	Viburnum opulus	1+2: Transplant - seed raised: Branched: 3 brks: B	60-80cm		0.3Ctr Double Staggered at 0.3m offset	10%	9.8m
Total :662 -								Total :97.7m

Native Scrub Mix

Number	Abbreviation	Species	Specification	Height	Pot Size	Density	Percentage Contribution	Area
423 -	COR AVE	Corylus avellana	1+2: Transplant - seed raised: Branched: 3 brks: B	60-80cm		1Ctr	15%	417.3m²
1117 -	CRA MON	Crataegus monogyna	1+1: Transplant - seed raised: B	60-80cm		1Ctr	40%	1112.6m²
423 -	ILE AQU	Ilex aquifolium	Leader with Laterals: C	40-60cm	3L	1Ctr	15%	417.3m²
561 -	PRU SPI	Prunus spinosa	1+1: Transplant - seed raised: Branched: 2 brks: B	60-80cm		1Ctr	20%	556.3m²
283 -	VIBOP	Viburnum opulus	1+2: Transplant - seed raised: Branched: 3 brks: B	60-80cm		1Ctr	10%	278m²
Total :2807 -								Total :2781.5m²

Plant Schedule

Trees

Number of Plants	Abbreviation	Species	Specification	Height	Girth	Density
6 -	A ca	Acer campestre	Heavy Standard; 5 brks; 3x; RB; Clear Stem minimum 200cm	350-425cm	12-14cm	Counted
3 -	A ca 'El'	Acer campestre 'Elsrijk'	Heavy Standard; 5 brks; 3x; RB; Clear Stem minimum 200cm	350-425cm	12-14cm	Counted
8 -	ACEOLMA	Acer platanoides 'Olmsted'	Heavy Standard; 5 brks; 3x; RB; Clear Stem 175-200cm	350-425cm	12-14cm	Counted
3 -	ALN GLU	Alnus glutinosa	Heavy Standard; 5 brks; 3x; RB; Clear Stem min. 200cm	350-425cm	12-14cm	Counted
14 -	A lam	Amelanchier lamarckii	Heavy Standard; 5 brks; 3x; RB; Clear Stem 175-200cm	300-350cm	12-14cm	Counted
2 -	BET PEN	Betula pendula	Extra Heavy Standard; 3x; RB; Clear Stem min. 200cm	450-500cm	18-20cm	Counted
12 -	B pub	Betula pubescens	Heavy Standard; 5 brks; 3x; RB; Clear Stem 175-200cm	350-425cm	12-14cm	Counted
7 -	C be 'F F'	Carpinus betulus 'Frans Fontaine'	Heavy Standard; 5 brks; 3x; RB; Clear Stem 175-200cm	350-425cm	12-14cm	Counted
10 -	PRU PAD	Prunus padus	Heavy Standard; 5 brks; 3x; RB; Clear Stem 175-200cm	350-425cm	12-14cm	Counted
4 -	PRUPADA	Prunus padus	Extra Heavy Standard; 3x; RB; Clear Stem min. 200cm	450-500cm	18-20cm	Counted
15 -	PRUPAAL	Prunus padus 'Albertii'	Heavy Standard; 5 brks; 3x; RB; Clear Stem 175-200cm	350-425cm	12-14cm	Counted
9 -	Q pe	Quercus petraea	Heavy Standard; 5 brks; 3x; RB; Clear Stem 175-200cm	350-425cm	12-14cm	Counted
3 -	QUE ROB	Quercus robur	Heavy Standard; 5 brks; 3x; RB; Clear Stem 175-200cm	350-425cm	12-14cm	Counted
4 -	S c	Salix caprea	Heavy Standard; 5 brks; 3x; RB; Clear Stem 175-200cm	350-425cm	12-14cm	Counted
Total : 110 -						

Shrubs

Number of Plants	Abbreviation	Species	Specification	Height	Pot Size	Density	Area
192 -	BER NAN	Berberis thunbergii 'Atropurpurea Nana'	Branched; 4 brks; C	20-25cm	3L	4/m²	45/m²
46 -	BRA SUN	Brachyglottis 'Sunshine'	Branched; 4 brks; C	30-40cm	3L	2/m²	20.2/m²
7 -	CEA MOU	Ceanothus 'Blue Mound'	Branched; 5 brks; C		3L	3/m²	2.2/m²
1 -	CEA REP	Ceanothus thyrsiflorus repens	Bushy; 5 brks; C		3L	3/m²	1/m²
5 -	CHO PEA	Choisya 'Aztec Pearl'	Bushy; 5 brks; C	30-40cm	3L	3/m²	1.6/m²
12 -	CHO SUL	Choisya ternata 'Sundance'	Bushy; 4 brks; C	30-40cm	3L	3/m²	3.5/m²
4 -	CIS PIN	Cistus 'Silver Pink'	Bushy; 4 brks; C	20-30cm	3L	3/m²	1.2/m²
1 -	COR ELE	Cornus alba 'Sibiga-Sissima'	Branched; 4 brks; C	40-60cm	3L	1/m²	0.9/m²
18 -	COT PUR	Cotinus coggygria 'Royal Purple'	Branched; 3 brks; C	30-40cm	3L	3/m²	5.5/m²
9 -	ELA EBB	Elaeagnus x ebbingei	Branched; 3 brks; C	30-40cm	3L	3/m²	2.7/m²
151 -	ERI PIN	Erica carnea 'Springwood Pink'	Bushy; C		3L	5/m²	28.8/m²
92 -	ERI WHI	Erica carnea 'Springwood White'	Bushy; C		3L	5/m²	17.3/m²
190 -	EUO GAI	Euonymus fortunei 'Emerald Gaiety'	Bushy; 7 brks; C	20-30cm	3L	3/m²	58.7/m²
14 -	EUO QUE	Euonymus fortunei 'Silver Queen'	Bushy; 5 brks; C	20-30cm	3L	3/m²	3.4/m²
4 -	FUC POP	Fuchsia 'Mrs Popple'	Bushy; 5 brks; C	20-30cm	3L	3/m²	1.2/m²
9 -	GEN LYD	Genista lydia	Bushy; 5 brks; C		3L	3/m²	2.8/m²
87 -	HEB GLO	Hebe 'Autumn Glory'	Bushy; 5 brks; C	20-30cm	3L	3/m²	25.8/m²
11 -	HEB GEM	Hebe 'Green Globe'	Bushy; 7 brks; C	15-20cm	3L	7/m²	3.4/m²
69 -	HEB WIN	Hebe 'Mrs Winder'	Bushy; 5 brks; C	30-40cm	3L	3/m²	20.4/m²
46 -	HEB RAK	Hebe rakaiensis	Bushy; 5 brks; C		3L	3/m²	14.2/m²
29 -	HYD WAV	Hydrangea macrophylla 'Blue Wave'	Branched; 5 brks; C	40-60cm	5L	2/m²	12.8/m²
9 -	HYD LIM	Hydrangea paniculata 'Little Lime'	Branched; 3 brks; C	30-40cm	3L	3/m²	4.2/m²
61 -	HYD BLU	Hydrangea serrata 'Bluebird'	Branched; 5 brks; C	40-60cm	5L	2/m²	27.1/m²
32 -	LAV HID	Lavandula angustifolia 'Hidcote'	Bushy; 5 brks; C	20-30cm	3L	3/m²	8.9/m²
2 -	LON PIL	Lonicera pileata	Bushy; 6 brks; C		3L	3/m²	0.8/m²
36 -	MAH APO	Mahonia aquifolium 'Apollo'	Branched; 2 brks; C	20-30cm	3L	4/m²	8.7/m²
78 -	PHO ROB	Photinia x fraseri 'Little Red Robin'	Bushy; 6 brks; C	30-40cm	3L	4/m²	21.7/m²
6 -	PIE FLA	Pieris 'Forest Flame'	Bushy; 3 brks; C	30-40cm	3L	3/m²	1.8/m²
51 -	POT ABB	Potentilla fruticosa 'Abbotswood'	Bushy; 4 brks; C		2L	4/m²	15.8/m²
44 -	POT ELI	Potentilla fruticosa 'Elizabeth'	Bushy; 3 brks; C		2L	4/m²	10.4/m²
12 -	PRU LUS	Prunus lusitanica	Bushy; 4 brks; C	30-40cm	3L	2/m²	5.1/m²
23 -	SAN CHA	Santolina chamaecyparissus	Bushy; 7 brks; C	20-30cm	3L	3/m²	7/m²
109 -	SKI RUB	Skimmia japonica 'Rubella'	Bushy; 3 brks; C	30-40cm	3L	3/m²	25.9/m²
10 -	SPI PRI	Spiraea japonica 'Little Princess'	Bushy; 7 brks; C	20-30cm	3L	3/m²	2.9/m²
19 -	VIB DAV	Viburnum davidii	Bushy; 3 brks; C	20-30cm	3L	3/m²	4.4/m²
19 -	VIB PRI	Viburnum tinus 'Eve Price'	Bushy; 4 brks; C	30-40cm	3L	2/m²	7.6/m²
12 -	VIN MAJ	Vinca major	Several Shoots; 3 brks; C		3L	3/m²	3.6/m²
Total : 1558 -							Total :430.5/m²

Herbaceous

Number of Plants	Abbreviation	Species	Specification	Height	Pot Size	Density	Area
23 -	ALC MOL	Alchemilla mollis	Full Pot; C		1L	3/m²	7.1/m²
20 -	AST FAN	Astilbe 'Fanal'	Full Pot; C		3L	4/m²	4.6/m²
14 -	AST GRA	Astilbe 'Granat'	Full Pot; C		3L	4/m²	3.4/m²
47 -	BER COR	Bergenia cordifolia	Full Pot; C		3L	5/m²	8.8/m²
13 -	ECH MAG	Echinacea purpurea 'Magnus'	Full Pot; C		3L	4/m²	3.1/m²
10 -	EUP ROB	Euphorbia amygdaloides robbiae	Full Pot; C		3L	5/m²	1.9/m²
54 -	GER BLU	Geranium 'Johnson's Blue'	Full Pot; C		3L	4/m²	12.5/m²
58 -	GER ALB	Geranium macrorrhizum 'Album'	Full Pot; C		3L	4/m²	12.4/m²
35 -	HEU RUF	Heuchera 'Chocolate Ruffles'	Full Pot; C		3L	4/m²	8.2/m²
29 -	HEU MAR	Heuchera 'Marmalade'	Full Pot; C		3L	4/m²	29/m²
23 -	HEU PUR	Heuchera micrantha 'Palace Purple'	Full Pot; C		3L	4/m²	5.1/m²
12 -	RUD GOL	Rudbeckia fulgida sullivantii 'Goldsturm'	Full Pot; C		3L	4/m²	2.7/m²
7 -	SAL TRI	Salvia officinalis 'Tricolor'	Full Pot; C		3L	4/m²	1.6/m²
Total :436 -							Total :100.4/m²

Formal Hedge

Number	Abbreviation	Species	Specification	Height	Pot Size	Density	Length
4512 -	ILE AQU	Ilex aquifolium	Bushy; 3 brks; C	140-60cm	3L	4/m	1115.2m
							Total :1115.2m

Grass Areas

Seed Mix Name	Seed Mix Supplier	Density	Area
RE3	Germinal	5g/m²	929.4m²
WF19	Germinal	2g/m²	349.6m²
			Total :1279m²

Native Hedgerow Mix 1

Number	Abbreviation	Species	Specification	Height	Pot Size	Density	Percentage Contribution	Length
149 -	COR AVE	Corylus avellana	1+2; Transplant - seed raised; Branched; 3 brks; B	60-80cm		0.3Ctr Double Staggered at 0.3m offset	15%	22.1m
686 -	CRA MON	Crataegus monogyna	1+1; Transplant - seed raised; B	60-80cm		0.3Ctr Double Staggered at 0.3m offset	40%	59m
149 -	ILE AQU	Ilex aquifolium	Leader with Laterals; C	40-60cm	3L	0.3Ctr Double Staggered at 0.3m offset	15%	22.1m
94 -	MAL SYL	Malus sylvestris	1+1; Transplant - seed raised; B	60-80cm		0.3Ctr Double Staggered at 0.3m offset	10%	14.8m
100 -	PRU SPI	Prunus spinosa	1+1; Transplant - seed raised; Branched; 2 brks; B	60-80cm		0.3Ctr Double Staggered at 0.3m offset	10%	14.8m
96 -	VIBOP	Viburnum opulus	1+2; Transplant - seed raised; Branched; 3 brks; B	60-80cm		0.3Ctr Double Staggered at 0.3m offset	10%	14.8m
Total :994 -								Total :147.6m

Native Hedgerow Mix 2

Number	Abbreviation	Species	Specification	Height	Pot Size	Density	Percentage Contribution	Length
96 -	ACE CAM	Acer campestre	1+1; Transplant - seed raised; B	60-80cm		0.3Ctr Double Staggered at 0.3m offset	15%	14.1m
142 -	COR AVE	Corylus avellana	1+2; Transplant - seed raised; Branched; 3 brks; B	60-80cm		0.3Ctr Double Staggered at 0.3m offset	15%	21.1m
378 -	CRA MON	Crataegus monogyna	1+1; Transplant - seed raised; B	60-80cm		0.3Ctr Double Staggered at 0.3m offset	40%	56.5m
142 -	ILE AQU	Ilex aquifolium	Leader with Laterals; C	40-60cm	3L	0.3Ctr Double Staggered at 0.3m offset	15%	21.1m
96 -	PRU SPI	Prunus spinosa	1+1; Transplant - seed raised; Branched; 2 brks; B	60-80cm		0.3Ctr Double Staggered at 0.3m offset	10%	14.1m
96 -	VIBOP	Viburnum opulus	1+2; Transplant - seed raised; Branched; 3 brks; B	60-80cm		0.3Ctr Double Staggered at 0.3m offset	10%	14.1m
Total :950 -								Total :141m

Native Hedgerow Mix 3

Number	Abbreviation	Species	Specification	Height	Pot Size	Density	Percentage Contribution	Length
99 -	COR AVE	Corylus avellana	1+2; Transplant - seed raised; Branched; 3 brks; B	60-80cm		0.3Ctr	15%	14.6m
203 -	CRA MON	Crataegus monogyna	1+1; Transplant - seed raised; B	60-80cm		0.3Ctr	40%	39.1m
99 -	ILE AQU	Ilex aquifolium	Bushy; 3 Brks; C	40-60cm	3L	0.3Ctr	15%	14.6m
67 -	PRU SPI	Prunus spinosa	1+1; Transplant - seed raised; Branched; 2 brks; B	60-80cm		0.3Ctr	10%	9.8m
67 -	ROS CAN	Rosa canina	1+1; Transplant - seed raised; Branched; 3 Brks; C	40-60cm	3L	0.3Ctr	10%	9.8m
67 -	VIBOP	Viburnum opulus	1+2; Transplant - seed raised; Branched; 3 brks; B	60-80cm		0.3Ctr	10%	9.8m
Total :662 -								Total :97.7m

Native Scrub Mix

Number	Abbreviation	Species	Specification	Height	Pot Size	Density	Percentage Contribution	Area
423 -	COR AVE	Corylus avellana	1+2; Transplant - seed raised; Branched; 3 brks; B	60-80cm		1Ctr	15%	417.3m²
1117 -	CRA MON	Crataegus monogyna	1+1; Transplant - seed raised; B	60-80cm		1Ctr	40%	1112.6m²
423 -	ILE AQU	Ilex aquifolium	Leader with Laterals; C	40-60cm	3L	1Ctr	15%	417.3m²
561 -	PRU SPI	Prunus spinosa	1+1; Transplant - seed raised; Branched; 2 brks; B	60-80cm		1Ctr	20%	556.3m²
283 -	VIBOP	Viburnum opulus	1+2; Transplant - seed raised; Branched; 3 brks; B	60-80cm		1Ctr	10%	278m²
Total :2807 -								Total :2781.5m²

Planting Plan Key:

- Site Boundary
- Existing trees and hedgerows to be retained and protected during the works.
- Existing trees to be removed
- Proposed ornamental planting on 400mm depth of topsoil with 75mm bark mulch.
- Proposed native tree planting, tree pit and double staking as detailed in the specification.
- Small ornamental tree/ large shrub planting, tree pit and double staking as detailed in the specification.
- Proposed single or mixed native hedgerow planted in a double staggered row at 0.3m centres and 0.3 offset. Bare root transplants with shelter guard tubes and stakes.
- Proposed single/ mixed native species formal hedge planted in a single row at 0.2 centres. Container transplants.
- Front gardens to be turfed on 150mm topsoil.
- Public open space to be sown with Germinal AberSustain mix, or similar approved, to be sown at a rate of 40g/m2 on 150mm topsoil.
- Public open space to be sown with Germinal Eco Species Rich Lawn mix, or similar approved, to be sown at a rate of 10g/m2 on 150mm topsoil.
- Native scrub planting to be planted as 60-80cm whip planting at 1m centres, for additional wildlife habitat.
- Wildflower seeding, Germinal RE3 River Floodplain / Water Meadow (MG8 Grassland), to the existing water course to public open space to be sown at 5g/m2.
- Wildflower seeding, WF19 Pollinators Paradise, to the public open space to be sown at 2g/m2.

DO NOT SCALE

ALL COORDINATES RELATED TO LOCAL GRID
LOCATED TO OS NG BY BEST FIT TO DETAIL,
EXTRACTED FROM OS DIGITAL DATA

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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 vandalism by heavy construction plant.

For work near a retained tree: Refer to BS 5837 *Trees in relation to design, demolition & construction - Recommendations* (Section 5 (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 removal of bark, branches or the making 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:
Where ripping 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 wherever possible to minimise loss of physical quality, diffusion of oxygen and microbial activity.
Any stockpiling shall not exceed 1.5 metres high and shall be sited so as to avoid risk of muddy water runoff 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 carefully stockpiled 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 soil is in a condition unsuitable for working on the whole surface.
Topsoil shall be laid to the following minimum depths:
150mm below new grass areas
300mm below trees
400mm beneath new shrub areas.
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.
100mm below damp proof courses.

2) GROUND CONDITIONING
10 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 publications and Codes 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 1984 Nursery stock (Specification for forest trees)
BS 3936: Part 5 1971 Nursery stock (Specification for poles and standards and lutions)
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 on 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 root system and be free from perennial weeds. The form of trees shall be in accordance with BS 3936 Part 1:1992, Section 1, Form of Trees.

Plant Handling:
All plant materials shall be lifted, bundled, labelled, packaged, transported, temporarily stored and planted in accordance with the following publications: BS 4043:1989 Recommendations for "Transplanting Root-balled Trees" (Horticultural Trades Association) and related sections of BS 4043: 1989 *Transplanting Root-Balled Trees*.

Tree Planting:
Trees to be pit planted following supplier recommendations. Minimum pit size: Extra Heavy standard tree 1500 x 1500 x 900, and Heavy standard tree 1000 x1000 x 750mm.
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 300mm below bottom of pit. Base of pit to be backfilled with a 2:1 mix of an approved topsoil / compost.
Trees to be centrally located and stem placed in an upright position. Pit to be backfilled with a 2:1 mix of an approved topsoil / compost. Backfill firmly to 50mm above previous ground level to allow for settlement. Stakes to be save leave 600mm above soil level.
Water in same day with 52 litres per tree.
Trees to be planted to the British 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:
Stake all heavy standard trees with double short stakes. 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 one third of the tree height above ground level, taking care not to damage the bark. Ties: Hessian. Tying: secure tree firmly but not rigidly to stake with at least 2 ties within 25mm of top of stake.

Mulch:
All shrub beds shall be spread with a medium grade bark mulch to a settled depth of 75mm. Mulch to be free from trees, 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 backfill with excavated soil. Ensure plants are planted to the correct depth.
pits sized to accommodate full spread of roots. Plants shall be evenly spaced over the planting area. Firm backfill by treading, ensuring the ground is not overly compacted and that the plant is positioned upright.

Native shrub planting:
Shrubs shall be pit planted between November and March. Consistent in species, cultivar and clone to ensure a uniform hedge. Plants to be planted in groups of 3, 5 or 7 of the same species.
Plants shall be evenly spaced over the planting area. Ensure plants are planted to the correct depth to correspond to the soil mark on main stems. Plants to be protected with 60cm high Tubex shrub shelter guards and stakes with ties.
Undertake formative pruning if necessary.

New formal hedges – Bare root stock shall be planted between November and March. Consistent in species, cultivar and clone to ensure a uniform hedge.
Trench to be excavated to a minimum planting bed 0.6metre wide. Planted to be centrally in a single row. Ensure plants are planted to the correct depth to correspond to the soil mark on main stems.
Prune back to a height of 1 metre.

New single or mixed native hedgerow
Bare root stock shall be planted between November and March. Consistent in species, cultivar and clone to ensure a uniform hedge. Plants to be planted in groups of 3, 5 or 7 of the same species.
To be planted in a previous prepared planting bed 1metre wide. Planted to be centrally in a double row, 300mm staggered spacing. Ensure plants are planted to the correct depth to correspond to the soil mark on main stems. Plants to be protected with 60cm high Tubex shrub shelter guards and stakes with ties.
Prune back to a height of 2 metres.

Turfed Areas:
To be specified and laid in accordance with BS 3936:1998 Recommendations for turf for general purposes. Turf to be Lindum Festival Turf (or similar approved). Hardwearing with a dense sward containing a mixture of: 28% perennial ryegrass, 55% fescues and 20% smooth stalked meadow grass. This mix is easy to maintain and will recover well from wear and tear.
Turf to be laid in suitable weather conditions on a prepared soil surface which is free from 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:
Topsoil shall be supplied 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'.
Seed mix shall be Germinal WF19 Pollinators Paradise, 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. Sow at rate of 2 g/m2 and lightly rake. First cut to be undertaken 8 weeks after sowing or when reaches 70mm.

Seed mix shall be Germinal RE3 River Floodplain / Water Meadow (MG8 Grassland), or similar approved within the existing water course to public open space. Sowing to be taken between March and October.
Topsoil shall be cultivated to a fine tilth, be free from weeds, stones and other debris. Sow at rate of 5 g/m2 and lightly rake. First cut to be undertaken 8 weeks after sowing or when reaches 70mm.

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 at planting to upright positions.
- Replacement of dead plant material
- 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 minimum quantities of water:
Extra Heavy Standard trees 50 litres each month between April and September
Heavy Standard trees 35 litres each month 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.

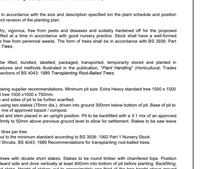
Grass Maintenance:
Grass shall be cut regularly throughout the growing season to maintain a sward of approximately 35mm. Shall be edged, weeded as necessary and clippings removed.

Wildflower Maintenance:
Wildflower areas shall be cut 2 times a year during the late spring and after the flower season (September / October) to maintain a sward of approximately 40mm. The clippings shall be left in situ for 3 days to allow seed drop, then removed to prevent nutrient build up.

WF/G20 Eco Species Rich Lawn Maintenance:
Autumn Sown: during the first year, first cut shall be early July, then monthly during August, September and October to maintain a sward of approximately 70mm.
Thereafter: shall be cut 2 times a year mid-July to early September to maintain a sward of approximately 70-100mm.
Spring Sown: during the first year: first cut shall be mid-September, then again during October to maintain a sward of approximately 70mm.
Thereafter: shall be cut 1 time a year mid-July to early September or as required leaving at least fortnight between cuts to maintain a sward of approximately 70mm.
The clippings shall be left in situ for 3 days to allow seed drop, then removed 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 writes.

Plant replacements:
All dead, dying and vandalised plant stock shall be replaced at the landscape contractor's expense, at the end of each growing season throughout the maintenance period.



NTS

REV	DESCRIPTION	DATE
N	Minor amendments	04/10/24
M	Amendments based on comments from Council's ecologist	24/09/24
L	Amended to layout "...Rev R"	14/06/24
KA	Amended to layout "...Rev Q"	10/06/24
J	Amended to layout "...Rev LA1"	08/03/24
I	Amended to layout "...Rev K"	09/01/24
H	Amended to layout "...Rev J"	07/12/23

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CLIENT:
Castle Green Homes

PROJECT:
Rossett Road, Wrexham

DRAWING TITLE:
Planting Plan (Sheet 4 of 5)

SCALE:	DRAWING No:	REV:
1:200 @ A0		

DRAWN BY:	CHKD BY:	DATE:	
CN	CO	20/01/2021	P.1416.20.02 N

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DO NOT SCALE

ALL COORDINATES RELATED TO LOCAL GRID
LOCATED TO OS NG BY BEST FIT TO DETAIL,
EXTRACTED FROM OS DIGITAL DATA

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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 5 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 severing of roots by digging or the making of trenches 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:
Prior to 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 wherever possible to minimise loss of physical quality, diffusion of oxygen and microbial activity.
Any stockpiling shall not exceed 1.5 metres high and shall be sited so as to avoid risk of muddy water runoff 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 carefully handled 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 in snow
When soil is in a condition unsuitable to ensure surface.
Topsoil shall be laid to the following minimum depths:
150mm below new grass areas
300mm below trees
400mm beneath new shrub areas.
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
All lines 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 recommendations and Codes:
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 1984 Nursery stock (Specification for forest trees)
BS 3936: Part 5 1987 Nursery stock (Specification for poles and sets 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 on 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 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 recommendations in BS 4043:1989 Transplanting Root-balled Trees' (Horticultural Trades Association) and relevant sections of BS 4043: 1989 Transplanting Root-Balled Trees.

Tree Planting:
Trees to be of planted following supplier recommendations. Minimum pit size: Extra Heavy standard tree 1500 x 1500 x 900, and Heavy standard tree 1000 x1000 x 750mm.
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 300mm below bottom of pit. Base of pit to be filled with 150mm of fine soil to support root ball.
Trees to be centrally located and stem placed in an upright position. Pit to be backfilled with a 3:1 mix of an approved topsoil / compost. Backfill firmly to 50mm above previous ground level to allow for settlement. Stakes to be see leave 600mm above soil level.
Water in same day with 52 litres per tree.
Trees to be Extra Heavy Standard 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:
Stake all heavy standard trees with double short stakes. 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 one third of the tree height above ground level, taking care not to damage the bark. Ties: Hessian. Tying: secure tree firmly but not rigidly to stake with at least 2 ties within 25mm of top of stake.

Mulch:
All shrub beds shall be spread with a medium grade bark mulch to a settled depth of 75mm. Mulch to be free from trees, 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 backfill immediately. Pits to be excavated to dimensions sufficient
pits sized to accommodate full spread of roots. Plants shall be evenly spaced over the planting area. Firm backfill by treading, ensuring the ground is not overly compacted and that the plant is positioned upright.

Native shrub planting:
To be planted in the planted between November and March. Consistent in species, cultivar and clone to ensure a uniform hedge. Plants to be planted in groups of 3, 5 or 7 of the same species.
Plants shall be evenly spaced over the planting area. Ensure plants are planted to the correct depth to correspond to the soil mark on main stems. Plants to be protected with 60cm high Tubex shrub shelter guards and stakes with ties. Undertake formative pruning if necessary.

New formal hedges – Bare root stock shall be planted between November and March. Consistent in species, cultivar and clone to ensure a uniform hedge.
To be planted in a previous prepared planting bed 0.6metre wide. Planted to be centrally in a single row. Ensure plants are planted to the correct depth to correspond to the soil mark on main stems. Plants to be protected with 60cm high Tubex shrub shelter guards and stakes with ties.
Prune back to a height of 1 metres.

New single or mixed native hedgerows
Bare root stock shall be planted between November and March. Consistent in species, cultivar and clone to ensure a uniform hedge. Plants to be planted in groups of 3, 5 or 7 of the same species.
To be planted in a previous prepared planting bed 1metre wide. Planted to be centrally in a double row, 300mm between plants and 300mm between rows. Ensure plants are planted to the correct depth to correspond to the soil mark on main stems. Plants to be protected with 60cm high Tubex shrub shelter guards and stakes with ties.
Prune back to a height of 2 metres.

Turfed Areas:
To be specified and laid in accordance with BS: 3936:1998 Recommendations for turf for general purposes. Turf to be Lindum Festival Turf (or similar approved). Hardwearing with a dense sward containing a mixture of 20% perennial ryegrass, 55% fescues and 25% smooth stalked meadow grass. This mix is easy to maintain and will recover well from wear and tear.
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. Topso'
Roll, fertilise at 50grms/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:**
Wildflower shall be Germinal WF:G20 Eco Species Rich Lawn, 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. Sow at rate of 10 g/m2 and lightly rake. First cut to be undertaken 8 weeks after sowing or when reaches 70mm.

Seed mix shall be Germinal RE3 River Floodplain / Water Meadow (MG8 Grassland), or similar approved within the proposed pond. Sowing to be taken between March and October.
Topsoil shall be cultivated to a fine tilth, be free from weeds, stones and other debris. Sow at rate of 5 g/m2 and lightly rake. First cut to be undertaken 8 weeks after sowing or when reaches 70mm.

Seed mix shall be Germinal WF19 Pollinators Paradise, 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. Sow at rate of 2 g/m2 and lightly rake. First cut to be undertaken 8 weeks after sowing or when reaches 70mm.

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
- Adjust mulch depths 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 minimum quantities of water:
Extra Heavy Standard trees 50 litres each month between April and September
Heavy Standard trees: 35 litres each month between April and September
Shrubs and hedges: 5 litres per square metre each month between April and September.
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
Wildflower shall be cut 2 times a year during the late spring and after the flower season (September / October) to maintain a sward of approximately 40mm. The clippings shall be left in situ for 3 days to allow seed drop, then removed to prevent nutrient build up.

WF:G20 Eco Species Rich Lawn Maintenance:
First cut shall be cut 1 time a year mid-July to early July, then monthly during August, September and October to maintain a sward of approximately 70mm.
Thereafter: shall be cut 2 times a year mid-July to early September to maintain a sward of approximately 70-100mm.
Where the lawn is established in the first year, first cut shall be mid-September, then again during October to maintain a sward of approximately 70mm.
Thereafter: shall be cut 1 time a year mid-July to early September or as required leaving at least fortnight between cuts to maintain a sward of approximately 70mm.
The clippings shall be left in situ for 3 days to allow seed drop, then removed 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, trim 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 landscape contractor's expense, at the end of each growing season throughout the maintenance period.

Planting Plan Key:

- Site Boundary
- Existing trees and hedgerows to be retained and protected during the works.
- Existing trees to be removed
- Proposed ornamental planting on 400mm depth of topsoil with 75mm bark mulch.
- Proposed native tree planting, tree pit and double staking as detailed in the specification.
- Small ornamental tree/ large shrub planting, tree pit and double staking as detailed in the specification.
- Proposed single or mixed native hedgerow planted in a double staggered row at 0.3m centres and 0.3 offset. Bare root transplants with shelter guard tubes and stakes.
- Proposed single/ mixed native species formal hedge planted in a single row at 0.2 centres. Container transplants.
- Front gardens to be turfed on 150mm topsoil.
- Public open space to be sown with Germinal AberSustain mix, or similar approved, to be sown at a rate of 40g/m2 on 150mm topsoil.
- Public open space to be sown with Germinal Eco Species Rich Lawn mix, or similar approved, to be sown at a rate of 10g/m2 on 150mm topsoil.
- Native scrub planting to be planted as 60-80cm whip planting at 1m centres, for additional wildlife habitat.
- Wildflower seeding, Germinal RE3 River Floodplain / Water Meadow (MG8 Grassland), to the existing water course to public open space to be sown at 5g/m2.
- Wildflower seeding, WF19 Pollinators Paradise, to the public open space to be sown at 2g/m2.

Plant Schedule

Trees

Number of Plants	Abbreviation	Species	Specification	Height	Girth	Density
6 -	A ca	Acer campestre	Heavy Standard: 5 brks: 3x: RB: Clear Stem minimum 200cm	350-425cm	12-14cm	Counted
13 -	A ca 'Ef'	Acer campestre 'Elsrijk'	Heavy Standard: 5 brks: 3x: RB: Clear Stem minimum 200cm	350-425cm	12-14cm	Counted
8 -	ACEOLMA	Acer platanoides 'Olmsted'	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm	Counted
3 -	ALN GLU	Alnus glutinosa	Heavy Standard: 5 brks: 3x: RB: Clear Stem min. 200cm	350-425cm	12-14cm	Counted
14 -	A lam	Amelanchier lamarckii	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	300-350cm	12-14cm	Counted
2 -	BET PEN	Betula pendula	Extra Heavy Standard: 3x: RB: Clear Stem min. 200cm	450-500cm	18-20cm	Counted
12 -	B pub	Betula pubescens	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm	Counted
7 -	C be 'F P'	Carpinus betulus 'Frans Fontaine'	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm	Counted
10 -	PRU PAD	Prunus padus	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm	Counted
4 -	PRUPADA	Prunus padus	Extra Heavy Standard: 3x: RB: Clear Stem min. 200cm	450-500cm	18-20cm	Counted
15 -	PRUPAAL	Prunus padus 'Albertii'	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm	Counted
9 -	Q pe	Quercus petraea	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm	Counted
3 -	QUE ROB	Quercus robur	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm	Counted
4 -	S c	Salix caprea	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm	Counted
Total :110 -						

Shrubs

Number of Plants	Abbreviation	Species	Specification	Height	Pot Size	Density	Area
192 -	BER NAN	Berberis thunbergii 'Atropurpurea Nana'	Branched: 4 brks: C	20-25cm	3L	4/m²	45m²
46 -	BRA SUN	Brachyglottis 'Sunshine'	Branched: 4 brks: C	30-40cm	3L	2/m²	20.2m²
7 -	CEA MOU	Ceanothus 'Blue Mound'	Branched: 5 brks: C		3L	3/m²	2.2m²
3 -	CEA REP	Ceanothus thyrsiflorus repens	Bushy: 5 brks: C		3L	3/m²	1m²
5 -	CHO PEA	Choisya 'Aztec Pearl'	Bushy: 5 brks: C	30-40cm	3L	3/m²	1.6m²
12 -	CHO SUN	Choisya ternata 'Sundance'	Bushy: 4 brks: C	30-40cm	3L	3/m²	3.5m²
4 -	CIS PIN	Cistus 'Silver Pink'	Bushy: 4 brks: C	20-30cm	3L	3/m²	1.2m²
3 -	COR ELE	Cornus alba 'Elegantissima'	Branched: 4 brks: C	40-60cm	3L	3/m²	0.9m²
18 -	COT PUR	Cotinus coggygria 'Royal Purple'	Branched: 3 brks: C	30-40cm	3L	3/m²	5.5m²
9 -	ELA EBB	Elaeagnus x ebbingei	Branched: 3 brks: C	30-40cm	3L	3/m²	2.7m²
151 -	ERI PIN	Erica carnea 'Springwood Pink'	Bushy: C		3L	5/m²	28.8m²
92 -	ERI WHI	Erica carnea 'Springwood White'	Bushy: C		3L	5/m²	17.3m²
190 -	EUO GAI	Euonymus fortunei 'Emerald Gaiety'	Bushy: 7 brks: C	20-30cm	3L	3/m²	58.7m²
14 -	EUO QUE	Euonymus fortunei 'Silver Queen'	Bushy: 5 brks: C	20-30cm	3L	4/m²	3.4m²
4 -	FUC POP	Fuchsia 'Mrs Popple'	Bushy: 5 brks: C	20-30cm	3L	3/m²	1.2m²
9 -	GEN LYD	Genista lydia	Bushy: 5 brks: C		3L	3/m²	2.8m²
87 -	HEB GLO	Hebe 'Autumn Glory'	Bushy: 5 brks: C	20-30cm	3L	3/m²	25.8m²
24 -	HEB GEM	Hebe 'Green Globe'	Bushy: 7 brks: C	15-20cm	3L	7/m²	3.4m²
69 -	HEB WIN	Hebe 'Mrs Winder'	Bushy: 5 brks: C	30-40cm	3L	3/m²	20.4m²
46 -	HEB RAK	Hebe rakaiensis	Bushy: 5 brks: C		3L	3/m²	14.2m²
29 -	HYD WAV	Hydrangea macrophylla 'Blue Wave'	Branched: 5 brks: C	40-60cm	5L	2/m²	12.8m²
13 -	HYD LIM	Hydrangea paniculata Little Lime	Branched: 3 brks: C	30-40cm	3L	3/m²	4.2m²
61 -	HYD BLU	Hydrangea serrata 'Bluebird'	Branched: 5 brks: C	40-60cm	5L	2/m²	27.1m²
32 -	LAV HID	Lavandula angustifolia 'Hidcote'	Bushy: 5 brks: C	20-30cm	3L	3/m²	8.9m²
9 -	LON PIL	Lonicera pileata	Bushy: 6 brks: C		3L	3/m²	2.8m²
36 -	MAH APO	Mahonia aquifolium 'Apollo'	Branched: 2 brks: C	20-30cm	3L	4/m²	8.7m²
93 -	PHO ROB	Photinia x fraseri 'Little Red Robin'	Bushy: 6 brks: C	30-40cm	3L	4/m²	21.7m²
6 -	PIE FLA	Pieris 'Forest Flame'	Bushy: 3 brks: C	30-40cm	3L	3/m²	1.8m²
51 -	POT ABB	Potentilla fruticosa 'Abbotswood'	Bushy: 4 brks: C		3L	3/m²	15.8m²
44 -	POT ELI	Potentilla fruticosa 'Elizabeth'	Bushy: 3 brks: C		2L	4/m²	10.4m²
12 -	PRU LUS	Prunus lusitanica	Bushy: 4 brks: C	30-40cm	3L	2/m²	15.1m²
23 -	SAN CHA	Santolina chamaecyparissus	Bushy: 7 brks: C	20-30cm	3L	3/m²	7m²
109 -	SKI RUB	Skimmia japonica 'Rubella'	Bushy: 3 brks: C	30-40cm	3L	4/m²	25.9m²
59 -	SPI PRI	Spiraea japonica 'Little Princess'	Bushy: 7 brks: C	20-30cm	3L	3/m²	2.9m²
14 -	VIB DAV	Viburnum davidii	Bushy: 3 brks: C	20-30cm	3L	3/m²	4.4m²
19 -	VIB PRI	Viburnum tinus 'Eve Price'	Bushy: 4 brks: C	30-40cm	3L	2/m²	7.6m²
12 -	VIN MAJ	Vinca major	Several Shoots: 3 brks: C		3L	3/m²	3.6m²
Total :1558 -							Total :430.5m²

Herbaceous

Number of Plants	Abbreviation	Species	Specification	Height	Pot Size	Density	Area
23 -	ALC MOL	Alchemilla mollis	Full Pot: C		3L	3/m²	7.1m²
20 -	AST FAN	Astilbe 'Fanal'	Full Pot: C		3L	4/m²	4.6m²
14 -	AST GRA	Astilbe 'Granat'	Full Pot: C		3L	4/m²	3.4m²
47 -	BER COR	Bergenia cordifolia	Full Pot: C		3L	5/m²	8.8m²
13 -	ECH MAG	Echinacea purpurea 'Magnus'	Full Pot: C		3L	4/m²	3.1m²
10 -	EUP ROB	Euphorbia amygdaloides robbiae	Full Pot: C		3L	5/m²	1.9m²
54 -	GER BLU	Geranium 'Johnson's Blue'	Full Pot: C		3L	4/m²	12.5m²
55 -	GER ALB	Geranium macrorrhizum 'Album'	Full Pot: C		3L	4/m²	12.4m²
35 -	HEU RUF	Heuchera 'Chocolate Ruffles'	Full Pot: C		3L	4/m²	8.2m²
123 -	HEU MAR	Heuchera 'Marmalade'	Full Pot: C		3L	4/m²	29m²
23 -	HEU PUR	Heuchera micrantha 'Palace Purple'	Full Pot: C		3L	4/m²	5.1m²
12 -	RUD GOL	Rudbeckia fulgida sullivantii 'Goldsturm'	Full Pot: C		3L	4/m²	2.7m²
7 -	SAL TRI	Salvia officinalis 'Tricolor'	Full Pot: C		3L	4/m²	1.6m²
Total :436 -							Total :100.4m²

Formal Hedge

Number	Abbreviation	Species	Specification	Height	Pot Size	Density	Length
4512 -	ILE AQU	Ilex aquifolium	Bushy: 3 brks: C	40-60cm	3L	4/m	1115.2m
							Total :1115.2m

Grass Areas

Seed Mix Name	Seed Mix Supplier	Density	Area
RE3	Germinal	5g/m²	929.4m²
WF19	Germinal	2g/m²	349.6m²
			Total :1279m²

Native Hedgerow Mix 1

Number	Abbreviation	Species	Specification	Height	Pot Size	Density	Percentage Contribution	Length
149 -	COR AVE	Corylus avellana	1+2: Transplant - seed raised: Branched: 3 brks: B	60-80cm		0.3Ctr Double Staggered at 0.3m offset	15%	22.1m
396 -	CRA MON	Crataegus monogyna	1+1: Transplant - seed raised: B	60-80cm		0.3Ctr Double Staggered at 0.3m offset	40%	59m
149 -	ILE AQU	Ilex aquifolium	Leader with Laterals: C	40-60cm	3L	0.3Ctr Double Staggered at 0.3m offset	15%	22.1m
100 -	MAL SYL	Malus sylvestris	1+1: Transplant - seed raised: B	60-80cm		0.3Ctr Double Staggered at 0.3m offset	10%	14.8m
100 -	PRU SPI	Prunus spinosa	1+1: Transplant - seed raised: Branched: 2 brks: B	60-80cm		0.3Ctr Double Staggered at 0.3m offset	10%	14.8m
100 -	VIBOP	Viburnum opulus	1+2: Transplant - seed raised: Branched: 3 brks: B	60-80cm		0.3Ctr Double Staggered at 0.3m offset	10%	14.8m
Total :994 -								Total :147.6m

Native Hedgerow Mix 2

Number	Abbreviation	Species	Specification	Height	Pot Size	Density	Percentage Contribution	Length
96 -	ACE CAM	Acer campestre	1+1: Transplant - seed raised: B	60-80cm		0.3Ctr Double Staggered at 0.3m offset	10%	14.1m
142 -	COR AVE	Corylus avellana	1+2: Transplant - seed raised: Branched: 3 brks: B	60-80cm		0.3Ctr Double Staggered at 0.3m offset	15%	21.1m
378 -	CRA MON	Crataegus monogyna	1+1: Transplant - seed raised: B	60-80cm		0.3Ctr Double Staggered at 0.3m offset	40%	56.5m
142 -	ILE AQU	Ilex aquifolium	Leader with Laterals: C	40-60cm	3L	0.3Ctr Double Staggered at 0.3m offset	15%	21.1m
96 -	PRU SPI	Prunus spinosa	1+1: Transplant - seed raised: Branched: 2 brks: B	60-80cm		0.3Ctr Double Staggered at 0.3m offset	10%	14.1m
96 -	VIBOP	Viburnum opulus	1+2: Transplant - seed raised: Branched: 3 brks: B	60-80cm		0.3Ctr Double Staggered at 0.3m offset	10%	14.1m
Total :950 -								Total :141m

Native Hedgerow Mix 3

Number	Abbreviation	Species	Specification	Height	Pot Size	Density	Percentage Contribution	Length
99 -	COR AVE	Corylus avellana	1+2: Transplant - seed raised: Branched: 3 brks: B	60-80cm		0.3Ctr Double Staggered at 0.3m offset	15%	14.6m
263 -	CRA MON	Crataegus monogyna	1+1: Transplant - seed raised: B	60-80cm		0.3Ctr Double Staggered at 0.3m offset	40%	39.1m
99 -	ILE AQU	Ilex aquifolium	Bushy: 3 Brks: C	40-60cm	3L	0.3Ctr Double Staggered at 0.3m offset	15%	14.6m
67 -	PRU SPI	Prunus spinosa	1+1: Transplant - seed raised: Branched: 2 brks: B	60-80cm		0.3Ctr Double Staggered at 0.3m offset	10%	9.8m
67 -	ROS CAN	Rosa canina	1+1: Transplant - seed raised: Branched: 3 Brks: C	40-60cm	3L	0.3Ctr Double Staggered at 0.3m offset	10%	9.8m
67 -	VIBOP	Viburnum opulus	1+2: Transplant - seed raised: Branched: 3 brks: B	60-80cm		0.3Ctr Double Staggered at 0.3m offset	10%	9.8m
Total :662 -								Total :97.7m

Native Scrub Mix

Number	Abbreviation	Species	Specification	Height	Pot Size	Density	Percentage Contribution	Area
423 -	COR AVE	Corylus avellana	1+2: Transplant - seed raised: Branched: 3 brks: B	60-80cm		1Ctr	15%	417.3m²
1117 -	CRA MON	Crataegus monogyna	1+1: Transplant - seed raised: B	60-80cm		1Ctr	40%	1112.6m²
423 -	ILE AQU	Ilex aquifolium	Leader with Laterals: C	40-60cm	3L	1Ctr	15%	417.3m²
561 -	PRU SPI	Prunus spinosa	1+1: Transplant - seed raised: Branched: 2 brks: B	60-80cm		1Ctr	20%	556.3m²
283 -	VIBOP	Viburnum opulus	1+2: Transplant - seed raised: Branched: 3 brks: B	60-80cm		1Ctr	10%	278m²
Total :2807 -								Total :2781.5m²

NTS

REV	DESCRIPTION	DATE
N	Minor amendments	04/10/24
M	Amendments based on comments from Council's ecologist	24/09/24
L	Amended to layout "...Rev R"	14/06/24
KA	Amended to layout "...Rev Q"	10/06/24
J	Amended to layout "...Rev LA1"	08/03/24
I	Amended to layout "...Rev K"	09/01/24
H	Amended to layout "...Rev J"	07/12/23

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CLIENT:
Castle Green Homes

PROJECT:
Rossett Road, Wrexham

DRAWING TITLE:
Planting Plan (Sheet 5 of 5)

SCALE:	DRAWING No:	REV:
1:200 @ A0		
DRAWN BY:	CHKD BY:	DATE:
CN	CO	20/01/2021
	P.1416.20.02	N