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All dimensions are in millimetres unless stated otherwise. All dimensions should be verified on site prior to commencement of works.

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All works including materials must be in accordance with British Standards, EC Standards, Health & Safety at work act & all other relevant regulations & Bye Laws. All products to be used in accordance with the manufacturer's recommendations.

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PLANNING DRAWING

This drawing has been prepared for submission to the relevant Local Authority as part of a Planning Application. It is not intended to assist with the pricing of any elements.

For Structural details refer to the Structural & Civil Engineers detailed design drawings & specifications.

For M&E information, refer to the M&E Engineers and sub contractor's design drawings & specifications.

Do not scale from this drawing. Verify all dimensions and setting out on site. Notify any discrepancies to the architect.

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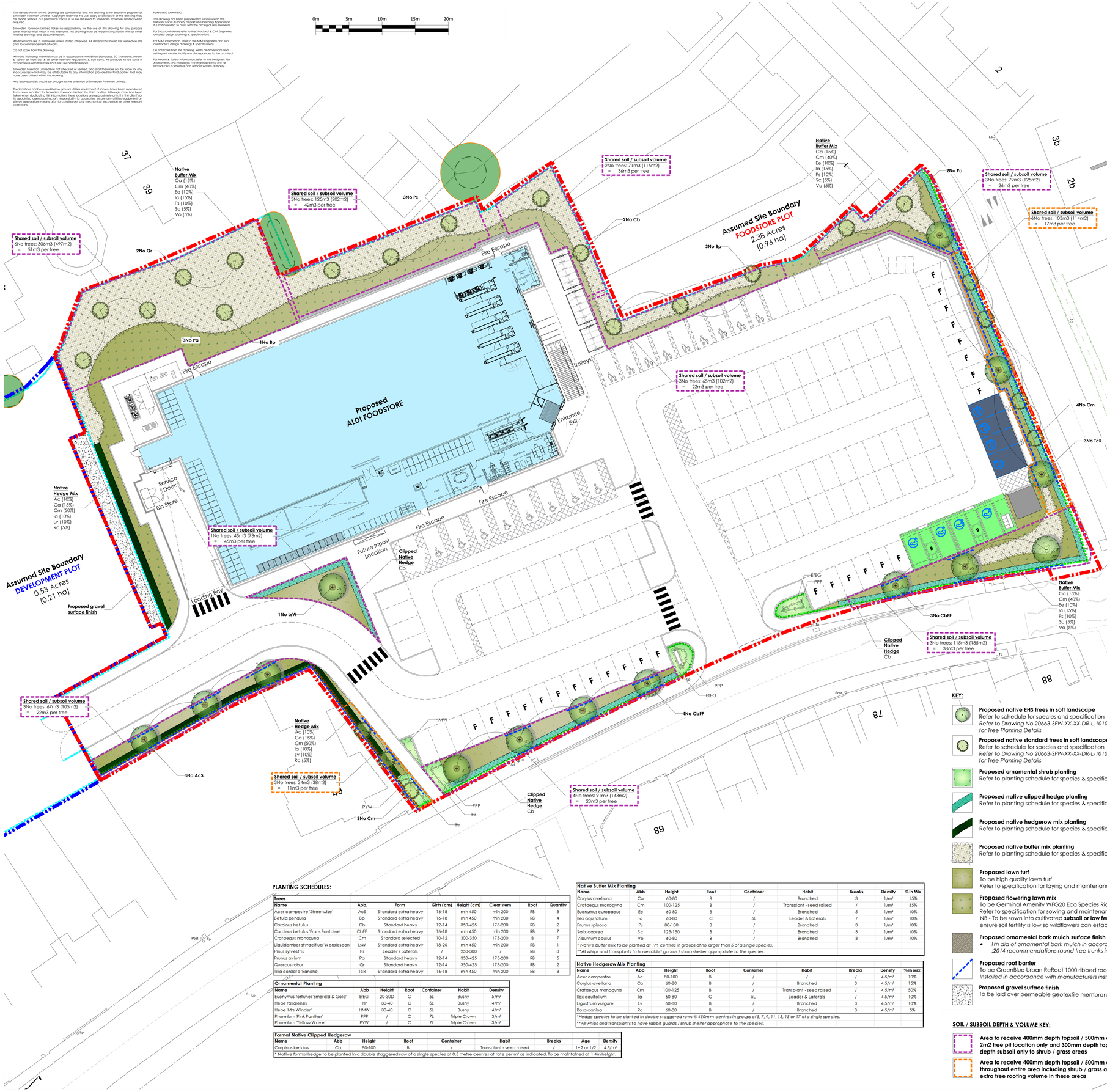
0m 5m 10m 15m 20m



SOFT LANDSCAPE SPECIFICATION

NOTE: All soft landscape works to be carried out in accordance with BS4428:1989.

CLEARANCE OF EXISTING VEGETATION
Clearance of any suitable nesting habitat to be undertaken outside the bird nesting season (March to July inclusive) to avoid any potential offence. Should the above timing constraints conflict with any timetabled works, it would be recommended that works commence only after a suitably qualified ecologist has undertaken checks to ensure no nesting birds are present, and any confirmed nests left in situ until the young have fledged.

SUBSOIL
All subsoil should be free draining and well aerated and in accordance with BS 8601:2013. Subsoil should be broken up to relieve compaction and aid drainage prior to topsoiling.
Subsoil depths (outside of orange or purple hatched special areas - refer to topsoil / subsoil key for details) should be:
Areas for Flowering Lawn: minimum 300mm Areas for Wildflower: minimum 300mm Areas for Ornamental & Native Shrubs: minimum 300mm
Areas for Hedges: minimum 300mm Areas for Trees: minimum 500mm
Immediately before spreading topsoil, remove stones larger than 50mm.

TOPSOIL
Existing site won topsoil to be reused for soft landscape areas if sufficient quantities are available and the topsoil meets the criteria for multipurpose topsoil as defined in table 1 of BS3882:2015 specification for Topsoil. If imported topsoil is required it is to be supplied and spread by the main contractor to the approval of the Landscape contractor, in accordance with the parameters of a multi purpose topsoil as laid out in BS 3882 : 2015. To be a natural sandy loam, of medium texture, with a pH between 5.5 and 7.8, not more than slightly stony and free of pernicious weeds. Subsoil to be well broken up prior to top-soiling to relieve compaction.
Topsoil depths (outside of orange or purple hatched special areas - refer to topsoil / subsoil key for details) should be:
Areas for Flowering Lawn: minimum 150mm
Areas for Ornamental Shrubs: minimum 400mm
Areas for Native Whip Planting: minimum 300mm
Areas for Hedges: minimum 300mm
Areas for Trees: minimum 400mm
Note: Contractor to provide soil testing declaration of analysis certification and sample for inspection & approval prior to delivery of any topsoil to site or for any in-situ soil that is being re-used.

CULTIVATION
Weeds to be prevented from seeding or becoming established by applying a suitable herbicide and allowing the correct time to elapse, as directed by the manufacturer. Compacted soil to be broken up to a depth of 100mm, with any stones, grass tufts or rubbish larger than 50mm in any direction to be removed, leaving a regular and even surface. Suitable slow release fertiliser to be supplied and spread @ 50g/m2 to all planted areas (not to flowering lawn / lawn).

CLIMATIC CONDITIONS
Topsoiling should be carried out in the driest conditions possible – cultivation to be carried out when the soil is moist, friable and not waterlogged or frozen. Topsoil should not be handled during or after heavy rainfall or when it is wetter than the plastic limit as defined by BS 3882. Planting should not take place in waterlogged conditions or when the ground is frozen.

SOIL AMELIORANT
Peat-free compost to be spread over ornamental shrub beds @ minimum 50mm depth prior to cultivation. For native planting a 50mm compost layer should be mixed into each whip planting pit only, not spread over the entire bed.

TREES
All trees within shrub beds to be planted in separate pits in accordance with tree planting detail.
All tree planting and post maintenance regimes to comply with BS8545:2014 Trees from Nursery to Independence in the Landscape' and transported to site in accordance with the HTA Plant Handling Guide: 1996.
All trees to be planted to the original root collar and secured in place with underground guying / triple timber staking system in accordance with tree planting detail.
If the trees are planted outside of the planting season then containerised stock to be used in lieu of root balled but the same tree heights are still required - allowance to be made for this at tender stage if required once construction timetable is known and CA informed immediately.

PROPOSED SHRUB PLANTING
All shrubs to be positioned as shown on the drawing and to the density and specification listed in the plant schedule.
Planting holes to be 150mm wider than the root spread, have the base ground thoroughly broken up before planting and backfilled with peat free compost.
All shrubs to be equally spaced throughout the planting areas to the specified density in a staggered arrangement unless otherwise noted in the planting schedule.
Contractor to ensure numbers on schedule match those shown on drawing before placing any orders for plants. Any discrepancies to be brought to the attention of the Landscape Architect upon discovery.
Contractor to check on site dimensions of all landscape areas to ensure specified quantities will achieve the specified densities for each species.

NATIVE WHIP PLANTING
Areas to be cleared and cultivated as described above. Rotavate areas to receive whip planting to a minimum depth of 300mm to form an open textured free draining growing medium. Remove all stones and other debris larger than 50mm in any one direction and remove all litter and vegetation matter prior to planting.
Each transplant to be fitted with tubex rabbit guard / shrub shelter appropriate to the species prior to mulching.

NATIVE HEDGE PLANTING
Areas to receive whip planting be cleared of all vegetation and cultivated as described above. Rotavate areas to a minimum depth of 300mm to form an open textured free draining growing medium. Remove all stones and other debris larger than 50mm in any one direction and remove all litter and vegetation matter prior to planting.
Each transplant to be fitted with an appropriate rabbit guard for the size and species and 500 x 500mm biodegradable GT Ecomat by Green-tech or similar approved. To be pruned / maintained as a hedge at a maxium height of 1.4 metres.

GRASSED AREAS
Turfed areas should be laid in accordance with BS 3969:1998: Recommendations for Turf for general purposes and BS 4428-1989 General Landscape Operations.
Height of initial growth: 100mm
Height of first cut: 50mm
Height of growth: The height of growth must not exceed 100mm at any time.
Frequency: Cut as and when necessary to a height of 25mm, using a rotary mower and remove all arisings.
Timing: When grass reaches scheduled height of maximum growth and is reasonably dry.
Application: At the time of each cut, trim all grass edges round the base of trees, manholes etc and remove arisings. Sweep all adjoining hard areas clear of cuttings and remove.
Weeding: Keep the sward substantially free of broad leaved weeds by applying a suitable selective herbicide.
Fertilizer: March application: 15:10:10 Spring turf fertilizer at 35g/m2.
September application: 5:10:10 Autumn turf fertiliser at 50g/m2.

WFG20 FLOWERING LAWN
Flowering lawn mix to be sown directly into cultivated low fertility topsoil/subsoil in accordance with manufacturers recommendations at rate of 10g/m2
Preparation: Cultivate subsoil, apply a suitable herbicide and allow the correct time to elapse, as directed by the manufacturer, and seed the bed. No fertiliser, compost or mulch are to be applied to the wildflower bed.
If seeding cannot be accommodated within the construction programme to ensure that the seed is fully germinated prior to store opening then WFT-Species-Rich-26 by Wildflower Turf is to be laid instead around store frontages only
but all efforts should be made to ensure the seeding is able to be sown as early as possible. Areas to rear of store are fine to be seeded at anytime.

First year of management:
- Mow newly sown flowering lawns regularly (every 7 -10 days during growing season) throughout the first year of establishment. Cut to a height of 40-60mm, removing cuttings if dense.
- Carefully dig out or spot treat any residual perennial weeds such as docks, thistles, nettles etc.

Management once established:
Mow regularly as a lawn but not too short (25-40mm).To permit flowering, mowing can be relaxed from late June. Cut again when the sward gets untidy (after 4-8 weeks).

*NOTE - At time of each cut all arisings to be removed from the bed to maintain reduced soil productivity.

SUBSTITUTIONS:
Upon submission of evidence that certain materials, including plant materials, are not available at the time of the landscape contract, the Landscape Contractor may be permitted to substitute other materials and plants in exceptional circumstances during the contract with an agreed adjustment of prices.
All substitutions shall be of nearest equivalent species and variety to the original specified but shall be subject to approval by the Landscape Architect before any change is made.

TIMES OF YEAR FOR PLANTING:
Landscape works to be carried out during the final possible planting periods prior to practical completion of the building and associated engineering works / car park areas in accordance with the following:
- Native and ornamental trees: During dormant winter period - Late October to late March (only if planted in the planting season otherwise containerised stock to be used).
- Bare root native transplants: During dormant winter period - Late October to April.
- Container grown ornamental and specimen shrubs: At any time if ground and weather conditions are favourable.

MULCH
75mm depth of 8-35mm ornamental bark mulch (peat-free) to be supplied and spread to all planting areas. Finished mulch level to be installed and maintained at 25mm below any adjacent kerbs or paving surfaces.

WEEDING
Weeding should be carried out at each and every maintenance visit. All weeding to planting beds should be carried out using hand methods only. Topping up the mulch to maintain the specified depth is the best method of preventing weeds and will reduce ongoing maintenance time.

WEED MEMBRANE
To be laid to all ornamental and native planting areas only (not grass / flowering lawn). To be installed prior to planting and mulching and to the specification in the key. Contractor to advise of any slopes steeper than 1 in 3 as weed membrane may not be appropriate in these locations and to seek approval prior to any other fabric being used other than that specified in the key.

MAINTENANCE
All planting areas to be maintained to a high standard by the contractor for 12months after practical completion, to ensure the landscape scheme is successful, and discourage decline of the area.
Minimum frequency of maintenance visits (12 maintenance visits per year):
March to May & September to November - 1No. visit each month
June to August - 2No. visits each month.

Generally, during the first 12months:
- All planting beds to be re-firmed and kept weed free through hand weeding.
- All litter to be picked and removed from landscape areas.
- Mulch to be topped up as required to maintain the specified thickness.
- The condition of all trees is to be regularly checked, with ties and stakes adjusted or replaced as necessary.
- The condition of all rabbit guards / shrub shelters / mulch mats on native whips to be regularly checked and replaced as necessary.
- Shrubs to be pruned at appropriate times of year for each species to promote healthy growth and desirable ornamental features.
- Lawn / flowering lawn areas to be cut and maintained in accordance with specification note above.
- All arisings to be removed from site.
- Any defects or plant losses occurring during the first 12 months defects period to be replaced at the contractors expense.

Following the initial 12 month establishment period the maintenance of the landscaping will be taken on by a professional commercial landscape maintenance contractor under a maintenance contract.

GENERAL WATERING
All soft landscaping to be subject to a watering regime which is absolutely essential to ensure the continued success of the scheme, particularly during the initial 12 month establishment period. The watering frequency should be as necessary to ensure the continued thriving of all grass, hedges, trees and ornamental planting but as a minumum should follow the maintenance regime as set out above and be carried out at the time of each maintenance visit. During dry periods it may be necessary to increase watering visits to once per week - If the planting is looking dry please contact Landscape Architect to arrange the extra maintenance visits if necessary. The soil should be checked for dryness using either a soil moisture sensor or by inserting a spade into the ground to a depth of 300mm to observe the appearance of the soil. If the soil is moist there is no need to water but if it is bone dry then watering procedure should be carried out immediately. Water supply should be from potable mains water or an approved alternative. The full depth of topsoil should be wet without loosening or damaging plants. Any compacted soil should be broken up sufficiently to allow water to reach the rootzone.

WATERING TREES
Trees to be watered in accordance with BS 8545-2014 Tree - From Nursery to Independence.
Trees should be watered via the installed irrigation / aeration pipes around the base of the trees stem in accordance with the manufacturer's instructions to ensure the water reaches the roots of the tree. Below is a suggested watering regime but this should be used as a guide only and may require modification in times of drought or flood, dependant on the ground conditions at the time, which should be monitored as above;

- March - October: 40 litres to be poured into irrigation pipe on every maintenance visit

PLANTING SCHEDULES:

Trees

Name	Abb.	Form	Girth (cm)	Height (cm)	Clear stem	Root	Quantity
Acer campestre 'Streetwise'	AcS	Standard extra heavy	16-18	min 450	min 200	RB	3
Betula pendula	Bp	Standard extra heavy	16-18	min 450	min 200	RB	4
Carpinus betulus	Cb	Standard heavy	12-14	350-425	175-200	RB	2
Carpinus betulus 'Frans Fontaine'	CbFF	Standard extra heavy	16-18	min 450	min 200	RB	7
Crataegus monogyna	Cm	Standard selected	10-12	300-350	175-200	B	7
Liquidamber styraciflua 'Worplesdon'	LsW	Standard extra heavy	18-20	min 450	min 200	RB	1
Pinus sylvestris	Ps	Leader / Laterals	/	250-300	/	RB	3
Prunus avium	Pa	Standard heavy	12-14	350-425	175-200	RB	5
Quercus robur	Qr	Standard heavy	12-14	350-425	175-200	RB	2
Tilia cordata 'Rancho'	TcR	Standard extra heavy	16-18	min 450	min 200	RB	3

Ornamental Planting

Name	Abb	Height	Root	Container	Habit	Density
Euonymus fortunei 'Emerald & Gold'	EfEG	20-30D	C	5L	Bushy	5/m²
Hebe 'pakiensis	Hr	30-40	C	5L	Bushy	4/m²
Hebe 'Mrs Winder'	HWW	30-40	C	5L	Bushy	4/m²
Phormium 'Pink Panther'	PPP	/	C	7L	Triple Crown	3/m²
Phormium 'Yellow Wave'	PYW	/	C	7L	Triple Crown	3/m²

Formal Native Clipped Hedgerow

Name	Abb	Height	Root	Container	Habit	Breaks	Age	Density
Carpinus betulus	Cb	80-100	B	/	Transplant - seed raised	/	1+2 or 1/2	4.5/m²

* Native formal hedge to be planted in a double staggered row at a single species at 0.5 metre centres at rate per m² as indicated. To be maintained at 1.4m height.

Native Buffer Mix Planting

Name	Abb	Height	Root	Container	Habit	Breaks	Density	%in Mix
Corylus avellana	Ca	60-80	B	/	Branched	3	1/m²	15%
Crataegus monogyna	Cm	100-125	B	/	Transplant - seed raised	/	1/m²	35%
Euonymus europaeus	Ee	60-80	B	/	Branched	5	1/m²	10%
Ilex aquifolium	Ia	60-80	C	5L	Leader & Laterals	/	1/m²	10%
Prunus spinosa	Ps	80-100	B	/	Branched	3	1/m²	10%
Salix caprea	Sc	125-150	B	/	Branched	3	1/m²	10%
Viburnum opulus	Vo	60-80	B	/	Branched	3	1/m²	10%

* Native buffer mix to be planted at 1m centres in groups of no larger than 5 of a single species.
** All whips and transplants to have rabbit guards / shrub shelter appropriate to the species.

Native Hedgerow Mix Planting

Name	Abb	Height	Root	Container	Habit	Breaks	Density	%in Mix
Acer campestre	Ac	80-100	B	/	/	/	4.5/m²	10%
Corylus avellana	Ca	60-80	B	/	Branched	3	4.5/m²	15%
Crataegus monogyna	Cm	100-125	B	/	Transplant - seed raised	/	4.5/m²	50%
Ilex aquifolium	Ia	60-80	C	5L	Leader & Laterals	/	4.5/m²	10%
Ligustrum vulgare	Lv	60-80	B	/	Branched	3	4.5/m²	10%
Rosa canina	Rc	60-80	B	/	Branched	3	4.5/m²	5%

*Hedge species to be planted in double staggered rows @ 450mm centres in groups of 5, 7, 9, 11, 13, 15 or 17 of a single species.
** All whips and transplants to have rabbit guards / shrub shelter appropriate to the species.

KEY:

Proposed native EHS trees in soft landscape
Refer to schedule for species and specification
Refer to Drawing No 20663-SFW-XX-XX-DR-L-1010 (01) for Tree Planting Details

Proposed native standard trees in soft landscape
Refer to schedule for species and specification
Refer to Drawing No 20663-SFW-XX-XX-DR-L-1010 (02) for Tree Planting Details

Proposed ornamental shrub planting
Refer to planting schedule for species & specification

Proposed native clipped hedge planting
Refer to planting schedule for species & specification

Proposed native hedgerow mix planting
Refer to planting schedule for species & specification

Proposed native buffer mix planting
Refer to planting schedule for species & specification

Proposed lawn turf
To be high quality lawn turf
Refer to specification for laying and maintenance requirements.

Proposed flowering lawn mix
To be Germinal Amenity WFG20 Eco Species Rich Lawn Mix
Refer to specification for sowing and maintenance requirements.
NB - To be sown into cultivated **subsoil or low fertility topsoil** to ensure soil fertility is low so wildflowers can establish.

Proposed ornamental bark mulch surface finish
- *1m dia of ornamental bark mulch in accordance with BS8545 :2014 recommendations round tree trunks in grass*

Proposed root barrier
To be GreenBlue Urban ReRoot 1000 ribbed root barrier
Installed in accordance with manufacturers instructions

Proposed gravel surface finish
To be laid over permeable geotextile membrane

SOIL / SUBSOIL DEPTH & VOLUME KEY:

Area to receive 400mm depth topsoil / 500mm depth subsoil to 2m2 tree pit location only and 300mm depth topsoil / 300mm depth subsoil only to shrub / grass areas

Area to receive 400mm depth topsoil / 500mm depth subsoil throughout entire area including shrub / grass areas to provide extra tree rooting volume in these areas

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Rev	Date	Description	Drawn	Chk'd
P03	07/08/24	Ca 1 subsoil depths added to plan to show existing volumes available to trees.	DW	DAW
P02	08/09/23	Tree root barriers added.	DW	DAW
P03	07/11/24	Updated to co-ordinate with Architects plan	BG	DW

Landscape Architecture
Ecology
Arboriculture
SMEEDEN FOREMAN
www.smeedenforeman.co.uk
Wakefield Manchester Milton Keynes Reading London Harrogate

Client
Aldi Stores Ltd Sawley

Project Title
Proposed Foodstore
Nottingham Road
Ripley

Drawing Title
Landscape Plan

Drawn	Checked	Scale @A0	BIM Status	Date
DW	DW	1:200	NA	07/24

Drawing Status	Rev.	SF Project No.
PLANNING	P03	20663

Project No.	Originator	Volume	Level	Type	Role	Number
20663	SFW	XX	XX	DR	L	1001