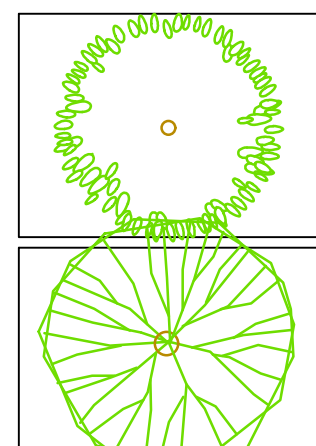


KEY



TREE PLANTING
14-16CM GIRTH

TREE PLANTING
18-20CM GIRTH

HEDGE PLANTING NATIVE MIXED SPECIES

HEDGE PLANTING SINGLE SPECIES

ORNAMENTAL SHRUB PLANTING

ORNAMENTAL 25L
SHRUB

CLIMBERS. SUPPLIED READY
TRAINED ON FAN TRELLIS

TURF
(CLOSE MOWN)

DECORATIVE GRAVEL OVER WEED CONTROL MEMBRANE

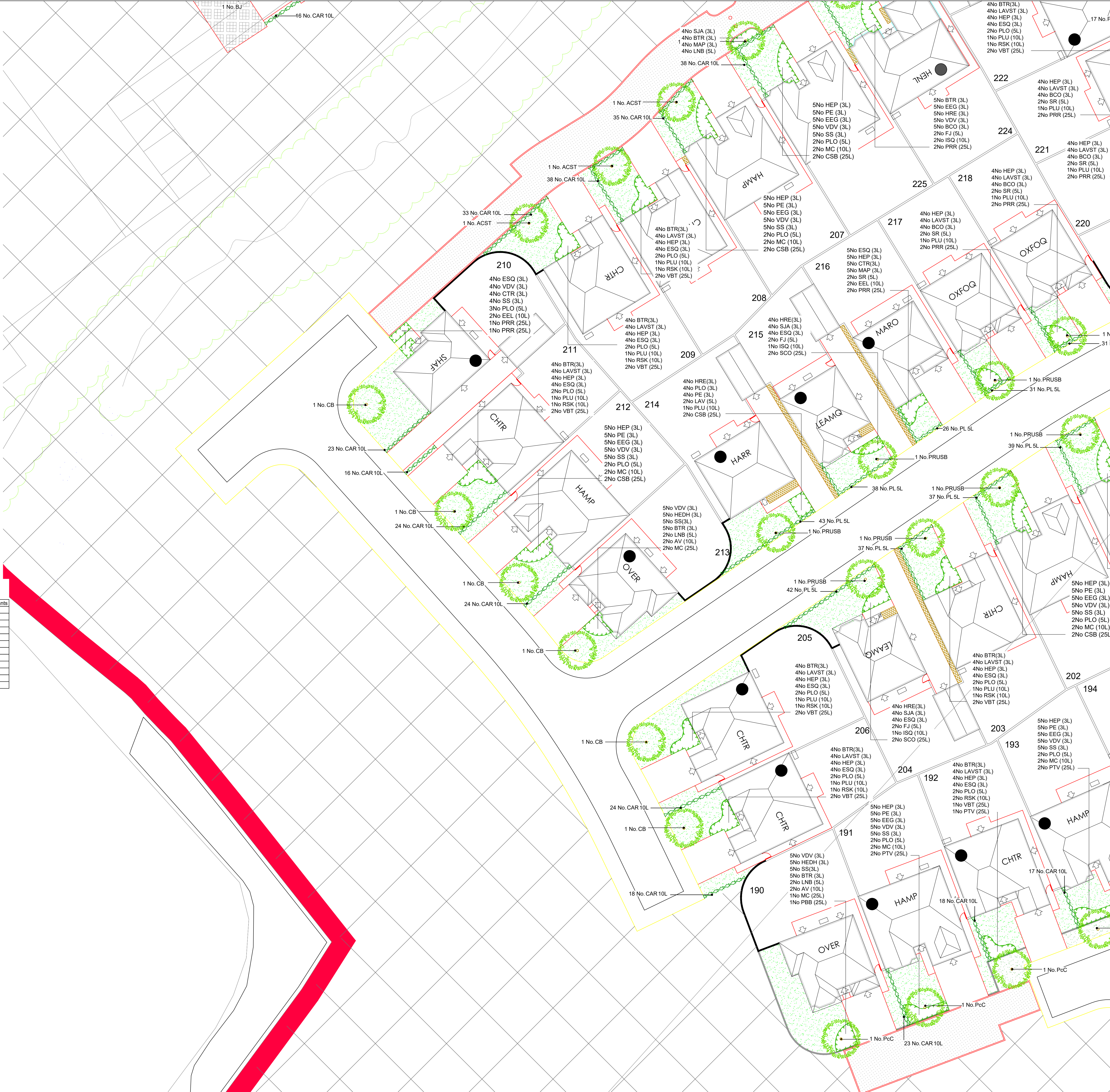
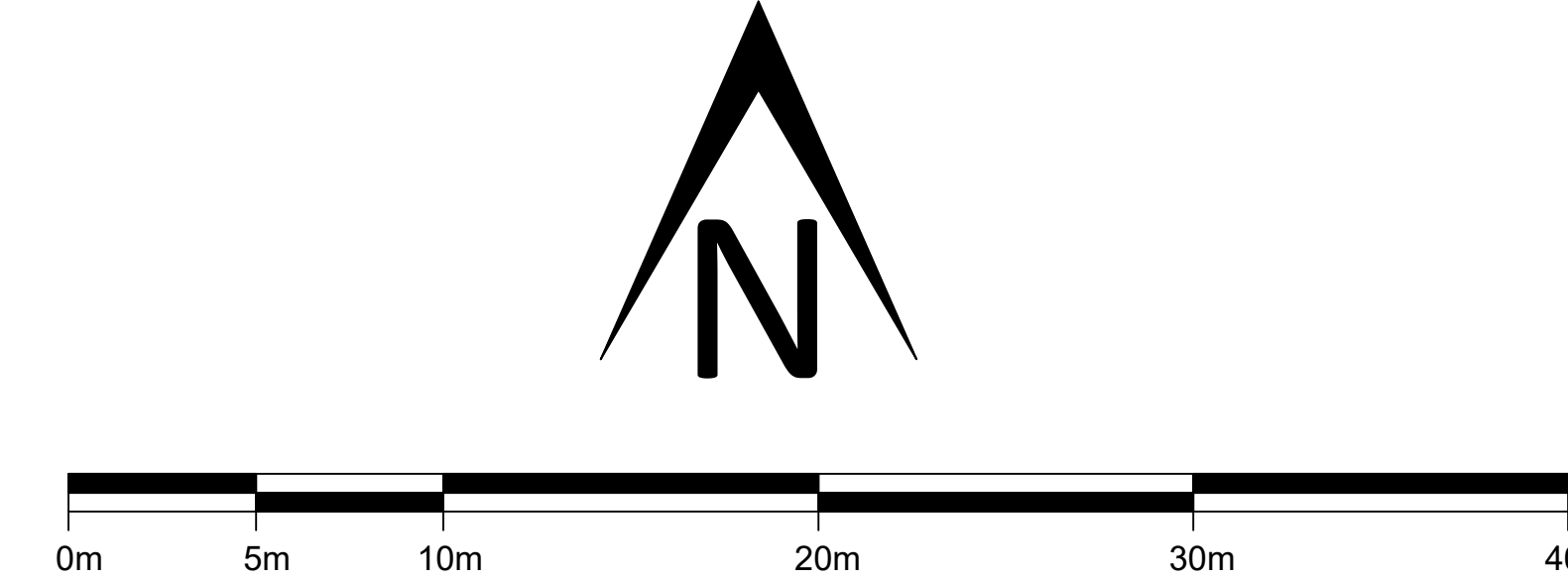
Plant Schedule						
Trees		Height	Birth	Specification	Pot Size	Number of Plants
AC2H	<i>Acacia campestre</i> "Street View"	42.5-60.0cm	14-16cm	Extra heavy standard 3x	C	27
ACVC	<i>Acacia speciosa</i> "William Caldwell"	45.0-50.0cm	18-20cm	Clear Stem min. 200 Extra Heavy Standard 3x	C	54
BJP	<i>Betula utilis jacquemontii</i>	42.5-60.0cm	14-16cm	Extra heavy standard 3x	C	40
CAB	<i>Carpinus betulus</i>	42.5-60.0cm	14-16cm	Extra heavy standard 3x	C	41
PAP	<i>Prunus avium "Plena"</i>	42.5-60.0cm	14-16cm	Extra heavy standard 3x	C	19
PCB	<i>Pyrus calleryana</i>	42.5-60.0cm	14-16cm	Extra heavy standard 3x	C	33
PSB	<i>Prunus "Sunset Boulevard"</i>	42.5-60.0cm	14-16cm	Extra heavy standard 3x	C	30
SA	<i>Sorbus aucuparia</i>	42.5-60.0cm	14-16cm	Extra heavy standard 3x	C	16
SS	<i>Sorbus domestica "Chenavert" Seedling</i>	42.5-60.0cm	14-16cm	Extra heavy standard 3x	C	15
TSQ	<i>Sorbus arbus</i>	42.5-60.0cm	14-16cm	Extra heavy standard 3x	C	14
TLGR	<i>Tilia cordata</i>	45.0-50.0cm	18-20cm	Clear Stem min. 200 Extra Heavy Standard 3x	C	80
TLSC	<i>Tilia cordata</i> "Greenspire"	45.0-50.0cm	18-20cm	Clear Stem min. 200 Extra Heavy Standard 3x	C	80

Abbreviation	Species	Specification	Height	Pot Size	Density	Number of Plants
BUX	<i>Buxus sempervirens</i> 'Suffruticosa'	Single row	20-30cm	5L	8/m	1434
CAR	<i>Carpinus betulus</i>	Double Staggered row	60-80cm	10L	3/m	1664
EO	<i>Elaeagnus ebbingei</i>	Single row	60-80cm	10L	3/m	1320
LoA	<i>Ligustrum ovalifolium</i> 'Aureum'	Single row	60-80cm	10L	3/m	815
PL	<i>Prunus laurocerasus</i>	Single row	60-80cm	5L	3/m	2684
PLO	<i>Prunus laurocerasus</i> 'Otto Luyken'	Single row	40-60cm	10L	3/m	405

Native Hedge Mix - Double Staggered row									
Abbreviation	Species	Specification	Height	Pot Size	Density	Mix Species Contribution	Number		
CRORAV	<i>n</i> <i>Corylus avellana</i>	Transplant 1+1	60-80cm	B	6/m	20%	32	-	
CORAM	<i>n</i> <i>Corylus monogyna</i>	Transplant 1+1	60-80cm	B	6/m	30%	48	-	
ILEA	<i>n</i> <i>Ilex aquifolium</i>	Container	60-80cm	SL	6/m	10%	16	-	
FRUSP	<i>n</i> <i>Prunus spinosa</i>	Transplant 1+1	60-80cm	B	6/m	20%	32	-	
ROCAR	<i>n</i> <i>Rosa averisii</i>	Transplant 1+1	60-80cm	B	6/m	10%	16	-	
ROSCA	<i>n</i> <i>Rosa canina</i>	Transplant 1+1	60-80cm	B	6/m	10%	16	-	
Total: 100%							Total: 160 -		

Climes	ready trained on fruit tillers									
HEDCO	<i>Hedera coccinea</i>	Person ivy	-	-	-	-	-	60-80	SL	
HN	<i>Hydrangea petiolaris</i>	Hydrangea	-	-	-	-	-	60-80	SL	
SHRUBS										
CSB	<i>Cornus alba 'Sibirica'</i>	Dogwood	-	-	-	-	-		2SL	1
EJA	<i>Eunonymus japonicus 'Oxatus Aurea'</i>	Sandale	-	-	-	-	-		2SL	1
PSB	<i>Phormium Bronze Baby</i>	New Zealand Flax	-	-	-	-	-		2SL	1
FTV	<i>Phormium tenax 'Variegata'</i>	New Zealand Flax	-	-	-	-	-		2SL	1
PRR	<i>Photinia x fraseri 'Red Robin'</i>	Cherry laurel	-	-	-	-	-		2SL	1
PSL	<i>Pinus laurustris</i>	Cherry Laurel	-	-	-	-	-		2SL	1
SCB	<i>Sarcococca fassii</i>	Sweet box	-	-	-	-	-		2SL	1
VT	<i>Viburnum lirus</i>	Laurelstrains	-	-	-	-	-		2SL	1
AV	<i>Aucuba japonica 'Variegata'</i>	Japanese laurel	-	-	-	-	-	60-80	10L	2
EEL	<i>Elaeagnus 'Silver Queen'</i>	Elm's silverberry	-	-	-	-	-	60-80	10L	2
EQO	<i>Eunonymus japonicus 'Oxatus Aurea'</i>	Sandale	-	-	-	-	-	60-80	10L	2
ISA	<i>Ilex aquifolium 'Silver Queen'</i>	Holly	-	-	-	-	-	60-80	10L	2
MAH	<i>Mahonia Chantey</i>	Croton grape	-	-	-	-	-	60-80	10L	2
PFU	<i>Persea Forest Flame</i>	Paria	-	-	-	-	-	60-80	10L	2
PLS	<i>Pinus lusitanica</i>	Portuguese laurel	-	-	-	-	-	60-80	10L	2
PSB	<i>Pinus japonica King Edward VII</i>	Pinus current	-	-	-	-	-	60-80	10L	2
FJ	<i>Fatsia japonica</i>	Japanese aralia	-	-	-	-	-	40-60	SL	3
LAV	<i>Lavandula angustifolia 'Vera'</i>	Lavender	-	-	-	-	-	40-60	SL	3
LN	<i>Loxonea nana 'Bargessens Gold'</i>	Honey-suckle	-	-	-	-	-	40-60	SL	3
PE	<i>Potentilla Elizabeth</i>	Chinaberry cineraria	-	-	-	-	-	40-60	SL	3
PLB	<i>Pinus laurustris 'Oxus Lyukens'</i>	Cherry laurel	-	-	-	-	-	40-60	SL	3
SCR	<i>Skimmia japonica 'Rubra'</i>	Skimmia	-	-	-	-	-	40-60	SL	3
RTB	<i>Rubus 'Aureo-Variegatus' 'Apostrophe Nana'</i>	Japanese barberry	-	-	-	-	-	40-60	SL	3
BO	<i>Bergenia cordifolia</i>	Heart-leaf bergenia	-	-	-	-	-	30-40	SL	4
CTR	<i>Ceanothus thyrsiflorus repens</i>	Creeeping blue blossom	-	-	-	-	-	30-40	SL	4
EEO	<i>Eunonymus fortunei 'Emerald and Gold'</i>	Sandale	-	-	-	-	-	30-40	SL	4
ESQ	<i>Eunonymus fortunei 'Silver Queen'</i>	Sandale	-	-	-	-	-	30-40	SL	4
HEB	<i>Hebe x exoniensis 'Red Edge'</i>	Hebe	-	-	-	-	-	30-40	SL	4
HEP	<i>Hebe angustifolia 'Paepp'</i>	Hebe	-	-	-	-	-	30-40	SL	4
HEDH	<i>Hedera helix</i>	Ivy	-	-	-	-	-	30-40	SL	4
LAUST	<i>Lavandula stoechas</i>	Lavandula stoechas	-	-	-	-	-	30-40	SL	4
MAP	<i>Mahonia aquifolium 'Apoll'</i>	Cherry laurel	-	-	-	-	-	30-40	SL	4
SS	<i>Semeio 'Sunshine'</i>	Brachyotides	-	-	-	-	-	30-40	SL	4
SJA	<i>Sarcraea japonica 'Anthony Waterer'</i>	Japanese scree	-	-	-	-	-	30-40	SL	4
SV	<i>Viburnum tinus</i>	Stiff-leaved dogwood	-	-	-	-	-	30-40	SL	4

:Plants for pollinators (RHS) n: Native EHS: Extra heavy standard X: Times transplanted C: Container grown



GROUND PREPARATION - GENERAL

Preparing for topsoil

Grading and cultivation shall be in accordance with BS 4248: 1991 Section 4. Subsoil that is to receive topsoil shall, whether obviously overcompacted or not, be thoroughly broken up by hand, by heavy rotavator, by subsoiler and/or treatment with approved passes made by subsoil tines that shall, after 15 minutes, cover the surface to a depth of, minimum, covered of all large stones, boulders, perennial weeds, tree roots and any other noxious weeds, vegetation and other extraneous material.

Subsoil grading

Subsoil shall only be used after loosening as above, and the shall undertake any use of a tractor and subsoiler grading on large areas and by a small mechanical grader or by hand on small areas that do not require the use of a tractor.

Making up levels

Subsoil shall be used to make up levels in the lying areas to raise formation levels. It shall be lightly compacted and left to settle on its own before topsoil is received. Imported fill material shall be natural subsoil free from muck, concrete or organic material with any one dimension greater than 100mm. All imported fill material shall be approved by the Landscape Architect prior to spreading on site.

Supply of topsoil

The topsoil to be supplied shall be approved by the Landscape Architect and details of the source of supply that be provided in order that permission may be made, before deliveries commences. Topsoil shall conform to BS 3882: 2013, Recommendations and classification for topsoil, clause 4. The soil shall be free of weeds, roots or perennial weeds, pests, diseases, debris, tree roots, staks, stones, rubble, etc. The topsoil shall be capable of being spread to a depth of 150mm.

Temporary topsoil heaps

The depositing of temporary heaps of topsoil shall be so arranged that possible damage to existing grass, plants, shrubs, pavement, etc. is avoided. Unsurface otherwise agreed by the Landscape Architect shall be protected by a layer of straw or other suitable material. The topsoil shall be stored in an evenly consolidated heap and shall be left to drain off all rain, stones and debris. The topsoil shall be covered by a plastic sheet or other suitable material. The topsoil shall be stored in an evenly consolidated heap and shall be left to drain off all rain, stones and debris. The topsoil shall be covered by a plastic sheet or other suitable material. The topsoil shall be stored in an evenly consolidated heap and shall be left to drain off all rain, stones and debris. The topsoil shall be covered by a plastic sheet or other suitable material.

Spreading topsoil

Prior to topsoil replacement the formation shall be cleared of all stones, rubble, debris with any one dimension greater than 125mm. Areas that are not needed or left off shall be covered by topsoil to a depth of 150mm. The topsoil shall be spread in an evenly consolidated heap and shall be left to drain off all rain, stones and debris. The topsoil shall be covered by a plastic sheet or other suitable material. The topsoil shall be stored in an evenly consolidated heap and shall be left to drain off all rain, stones and debris. The topsoil shall be covered by a plastic sheet or other suitable material.

CULTIVATION

Planting areas shall be cultivated to a depth of 225mm in the original ground, or where the ground is compacted, opened and cultivated. Pick off stones, bricks, timber and all other debris arising which have any dimensions greater than 50mm and remove off site as they fall. Do not cultivate across any surface where the ground is loose. Flatten with the ground surface.

Soil Improvers

Where direct contacts, fertilisers or other additives shall be incorporated into the soil. Spent mushroom compost or similar shall be spread to the specified thickness and incorporated, by raking, into the soil to 150mm. Fertilisers, organic or inorganic, shall be spread in accordance to the BS 2520m.

Rejection of plants

Plants shall be rejected with shall with the minimum requirements as BS 9304: 1991 Specification for trees and shrubs and BS 3904: 2007 Specification for forest trees and BS 6845: 2014. Trees from Norway to indigenous in the landscape. Any plant material, which in the opinion of the Landscape Architect, does not meet the requirements of the Specification, or is unsuitable, or is damaged, or is diseased, or is of a species not specified in the plant schedule will be strictly rejected. The contractor shall replace all plants rejected at his own expense.

Planting

Planting material shall generally be planted between November and March in open weather. Planting shall not take place in frosty, windy or waterlogged conditions. Where appropriate, open or container grown plants may be planted outside the described season, but adequate watering shall be supplied. Control or damaged roots and branches shall be cleanly pruned prior to planting.

Planting of algae, transplants and shrubs

Plants shall be rejected with shall with the minimum requirements as BS 9304: 1991 Specification for trees and shrubs and BS 3904: 2007 Specification for forest trees and BS 6845: 2014. Trees from Norway to indigenous in the landscape. Any plant material, which in the opinion of the Landscape Architect, does not meet the requirements of the Specification, or is unsuitable, or is damaged, or is diseased, or is of a species not specified in the plant schedule will be strictly rejected. The contractor shall replace all plants rejected at his own expense.

Tree planting with soil

Tree planting shall be in accordance with BS 3904: 1991 and BS 3904: 2007. The bottom 225mm of the pit shall be backfilled with subsoil (prior to imported topsoil) to comply with BS 3882: 2013. The top 225mm of the pit shall be backfilled with imported topsoil to comply with BS 3882: 2013. The bottom 225mm of the pit shall be backfilled with subsoil (prior to imported topsoil) to comply with BS 3882: 2013. The top 225mm of the pit shall be backfilled with imported topsoil to comply with BS 3882: 2013.

Compost for planting pits
 The compost for the planting pits, based on approved fertilizers and approved additives. The type of compost that is approved before delivery on site, and the details of the product that is supplied. Composting plantations should be approved. Heavy directed compost should be added to and mixed with topsoil based! The following rates are given:
 Heavy standards/4000 heavy standards - 400 tons
 Selected standards - 600 tonnes
 Heavy standards/4000 heavy standards - 40 tons

Stakes for trees
 The stakes for the trees should be made of untreated, rot-resistant, diameter 75mm. The stakes shall be driven into the base of the tree prior to placing the tree and backfilling. Stakes shall in general have a cleat height above the finished ground level as follows unless directed otherwise:
 Selected standards - 900mm (2.9m, one use each)
 Heavy standards/4000 heavy standards - 1200mm (3.9m, one use each)
 The stake shall be long enough to drive into the soil and tie the tree firmly without rocking.

Tree ties
 Two tie around trees, shall be approved under rail-tie type with cushioned space for the tree. Or other grade approved. Nails shall be hot treated galvanized and shall hold the tie in place. The tie shall be secured to the tree by being tied or bolted to the trunk. These available from J.oms Limited, Winesford, Heathcote, Auckland, NZ. 7627 5911.
 Featherbed Type - 04 (one tie)
 Selected standards - Type L3 (1 one tie per tree)
 Heavy standards/4000 heavy standards - Type L3 (one tie per tree)

Tree for rotollet and bare-rooted green trees shall be 50mm diameter tree bolts in a figure of eight around the tree. Faxed to the stake with two hot heat galvanized nails.
 Featherbed - one bolt
 Selected standards - two bolts
 Heavy standards/4000 heavy standards - two bolts

Planting of trees
 The trees shall be upright and at the same depth as grown in the nursery. The roots shall be spread out (sharpened) and the soil followed by compost topsoil based. Backfilling should be done to ensure close contact between roots and firming in layers. The soil shall be left well and dry, no subsoil, cracks or stones over 50mm grain, collected and carried away.

Mulching
A 15mm compacted layer of medium grade pulverised bark, with a particle size of no more than 100mm and containing no more than 10% fines, shall be spread to form a continuous layer covering the whole of the bed, the top of standard trees within grass that shall be in the form of a 600mm diameter mound above the base of the tree. Wires and transplants shall be mulched in the form of a 100mm diameter mound above the base of the tree. All plants shall be planted within a circle being mulched around the base of the tree. The layers of mulch at the dammed shall be covered, as well as facing pipes. The tree on pipe shall be as big as possible.

Planting of Bulbs
Bulbs shall not be allowed to dry out and have few or no roots. Certified and genuine bulbs shall be provided upon delivery to site. Fatsol shall be the sole minimum price in the form of a certificate, protected area in 10%12 degrees Celsius. Certificate of purchase shall be produced upon request. Bulbs are to be planted according to species and in the areas above the soft landscape plan. Where planting is required in other parts, bulbs are to be scattered randomly over the allocated area and planted where they fall. The bulbs shall be planted at the depth stated in the form of a certificate with the soil of the same. The time that the bulb shall be kept in the soil shall be specified in the form of a certificate.
All bulbs are to be planted at the correct depth, according to species, with the base of the bulb in contact with the soil and the pointed end up. Topsoil is to be used to back-fill.

If turfs are to be planted into existing turf areas, turf to be neatly removed and replaced after planting and re-rolled.

TURFING

Soil preparation and cultivation
All areas to be turfed shall be cultivated to a depth of at least 100mm, all weeds, stones and refuse larger than 50mm shall be removed to Contractor's tip, and shall be brought to a fine fifth. Allow for hand cultivation where machine work is not possible.

Turf
Turf shall be extra-quality machine turfed and shall comply to BS 3969: 1990 +A1: 2013 and shall be laid in accordance with BS 4428: 1996, section 6, Turfing. The Contractor shall supply a sample of the turf he proposed to use for approval of the Landscape Architect and shall ensure that all turves are similar to the approved sample. The Contractor shall inform the Landscape Architect of the location of the supply, so that turf can be inspected prior to lifting.

[illegible]

PROTECTION TO EXISTING TREES

The recommendations in BS 5837: 2012 'Trees in Relation to Design, Demolition & Construction' must be complied with at all times.

No pruning, lopping, felling or severe reduction in size is to take place without prior consent of the local authority.

Work to the existing trees is to be carried out by a qualified tree surgeon.

The position and construction of protective fencing shall be agreed with the local authority prior to any work to commence.

Under no circumstances may any materials be stored under the canopy of existing trees, and no cement, dust or oil stored near them.

No vehicles should pass under the canopy of existing trees.

No free boards to be in place prior to felling trees.

No ropes, cables, wires or notice boards shall be fixed to existing trees.

Under no circumstances should the levels around existing trees be either raised or reduced.

Suffraging may only be exercised within protected areas if it is done so in accordance with BS 5837.

Any excavators under existing tree canopy spreads shall be sealed.

SOIL SEEDING AND MAINTENANCE

Soil Preparation and Cultivation

First grading of topsoil shall be prepared by the Landscape Architect before cultivation and seeding. All areas to be seeded shall be cultivated to 100mm depth and all weeds, stones, and refuse larger than 50mm shall be removed to site. Cultivated soil shall be rolled and raked to produce a firm 50mm deep. Allow for future cultivation within maximum work of seed. Seed shall immediately follow the preparation of the seed bed.

Seeding

Seeding shall be carried out during calm winds. All sowing is at the contractor's own risk and any areas where germination fails shall be seeded at the contractor's own expense. The operator should be careful to avoid in equal sowing and transverse directions and the seed shall be sowed in rows. Sowing shall be at the rate of 60 grammes per sq.m, and overseeding shall be at 20 grammes per sq.m.

Seed Mix

The seed mix shall be A22 mix, obtained from General Seeds GB. Grass seed shall be of the composition, purity and germination as specified in BS 4248: 1989. Certificates of purity shall be provided for all deliveries prior to the sowing of grass seed

protection zone, mixture, purity and germination percentage.

Alternative cultivars of the above species may only be used if approved by the landscape architect

Preserving of Newly Sowed Areas

All reasonable precautions shall be taken to ensure that pedestrians and other traffic does not cross the grass areas during cultivation, seeding or until grass is established. Where obvious erosion is occurring, the contractor shall erect and support temporary fences so as to minimize the maintenance period to until such time as it is no longer necessary as the sward has established.

First Cut

When the grass is 100mm high, it shall be cut down to 50mm so as to avoid rutting. If the grass has been allowed to grow any longer than 100mm then the cuttings shall be raked off and leave of site.

Second Cut

When the grass is 40mm high a second cut shall be carried out using a roller mower. No more than one third of the foliage shall be removed.

Subsequent Cuts

making, when the grass grows to 100mm high, it shall be cut down to 50mm with a lawnmower, until the end of the maintenance period, or longer as directed. The grass shall be cut on a regular basis as directed.

Mowing
Any objects such as debris, ponding, sparse germination or diseases shall be above all and needed all as above.

Drainage to Existing Drains
The contractor will be responsible for cutting, sealing and maintaining all areas of existing turf during the course of the works for reasons of storage, working and safety. The contractor shall ensure that all drains are unobstructed and that the drainage system is maintained in good working order.

Any areas, which in the opinion of the Landscape Architect, are considered damaged during the course of these works, shall be loosened with a ripper or other suitable implement to ensure adequate drainage through the sub soil.

MAINTENANCE
All maintenance to be carried out up to handover to the adjacent authority/ householder from the date of planting and turfing to ensure successful establishment. As above, damaged plants must be replaced during this period.

Plantation
The contractor shall ensure that all plants are planted in the correct position and depth, and that all plants are watered and mulched in accordance with the instructions of the Landscape Architect.

Weeding All beds to be kept weed free by hand weeding. Beds to be forked over as necessary to keep soil loose to prevent crusting and to allow rain to penetrate.	Position of trees to grass verges	20.03.20	INC	Rev
Pruning At appropriate time, prune plants to remove dead, dying or diseased wood and suckers to promote healthy growth and natural shape.	© Copyright reserved	Date	Drawn	Rev
Watering The Contractor shall ensure that sufficient water is applied to maintain healthy growth.				
Litter Site to be kept free of litter.				
Grass cutting				

The initial cut will be carried out when first growth is apparent. Blades are 20mm above ground. The Contractor shall continue cutting at appropriate intervals during the growing season and maintain a minimum height until grass areas are handed over. Watering, weeding, cutting, repair of erosion and seedling and re-seeding as necessary to establish a uniform and healthy sward of grass shall continue until handover to the householder.

Landscape Architecture
Arbiculture

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Project
Stakehill, Middleton
Redrow Lancashire

Title		Landscape Proposal	
Sheet 10 of 10			
Date:	Feb '23	Scale(s):	1:200
Dwg no:	7123.10	Rev:	A
Owner:	NC	Checked:	DG
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