

SCALE: 1:500

Plant Schedule

Trees	Abbreviation	Species	Height	Girth	Specification	Pot Size	Number of Plants
Ac	Acer campestre		300-350cm	10-12cm	Selected Standard: 2x	B	10
ACEPLAB	Acer platanoides 'Autumn Blaze'		300-350cm	10-12cm	Selected Standard: 2x	B	8
AG	Ainus guthriei		300-350cm	10-12cm	Selected Standard: 2x	B	3
APS	Acer platanoides 'Emerald Queen'		425-600cm	14-16cm	Extra Heavy Standard: 3x	B	9
CB	Carpinus betulus		425-600cm	14-16cm	Extra Heavy Standard: 3x	B	9
FS	Fagus sylvatica		300-350cm	10-12cm	Selected Standard: 2x	B	14
FSPu	Fagus sylvatica 'Purpurea'		300-350cm	10-12cm	Selected Standard: 2x	B	5
PA	Prunus avium		300-350cm	10-12cm	Selected Standard: 2x	B	5
Qps	Quercus petraea		300-350cm	10-12cm	Selected Standard: 2x	B	5
Qr	Quercus robur		300-350cm	10-12cm	Selected Standard: 2x	B	7
SA	Sorbus aucuparia		425-600cm	14-16cm	Extra Heavy Standard: 3x	B	2
Sar	Sorbus aria		300-350cm	10-12cm	Selected Standard: 2x	B	6
TG	Tilia cordata		300-350cm	10-12cm	Selected Standard: 2x	B	10
TGGS	Tilia cordata 'Green Spire'		425-600cm	14-16cm	Extra Heavy Standard: 3x	B	8
Te	Tilia x euchlora		425-600cm	14-16cm	Extra Heavy Standard: 3x	B	3
Total: 104							

Hedges - single species	Abbreviation	Species	Specification	Height	Girth	Pot Size	Density	Number of Plants
FS	Fagus sylvatica	Double staggered row	60-80cm	6m	6m			1131
Total: 93								

Shrubs	Abbreviation	Species	Specification	Height	Pot Size	Density	Number of Plants
BCO	Bergenia cordifolia		60-80cm	3L	6m ²	98	
COF	Cornus stolonifera 'Flaviramea'		60-80cm	3L	4m ²	56	
CSB	Cornus alba 'Sibirica'		60-80cm	3L	4m ²	54	
EAB	Escallonia 'Apple Blossom'		40-60cm	3L	4m ²	70	
EEG	Eunymus fortunei 'Emerald 'n' Gold'		20-30cm	3L	6m ²	49	
EUEG	Eunymus fortunei 'Emerald Gaiety'		20-30cm	3L	6m ²	72	
HH	Hypericum 'Hidcot'		30-40cm	3L	6m ²	21	
JHG	Juniperus horizontalis 'Glaucap'		30-40cm	3L	6m ²	117	
LMU	Lavandula angustifolia 'Munstead'		30-40cm	3L	6m ²	21	
MC	Mahonia x media 'Charity'		60-80cm	3L	4m ²	35	
PAB	Potentilla fruticosa 'Abootswood'		30-40cm	3L	6m ²	4	
PRR	Prunella x fraseri 'Red Robin'		60-80cm	3L	4m ²	14	
RMG	Rosa 'Red Max Graf'		30-40cm	3L	6m ²	89	
SR	Stemodia japonica 'Rubella'		30-40cm	3L	6m ²	44	
VD	Viburnum davidii		30-40cm	3L	6m ²	19	
VTE	Viburnum tinus 'Eve Price'		40-60cm	3L	4m ²	46	
Total: 1940							

Reed Bed - Planted at 3m sq	Abbreviation	Species	Specification	Density	Number of Plants
PHRAU	Phragmites australis	Supplied in 9cm pot. Planted at 3m sq	3m ²	1131	
Total: 1131					

Native Hedge Mix - Beech & Holly	Abbreviation	Species	Specification	Height	Density	Percentage Contribution	Number
FS	Fagus sylvatica	Transplant 1+1	60-80cm	6m	80%		571
ILEA	Ilex aquifolium	Container	60-80cm	6m	20%		143
Total: 714							

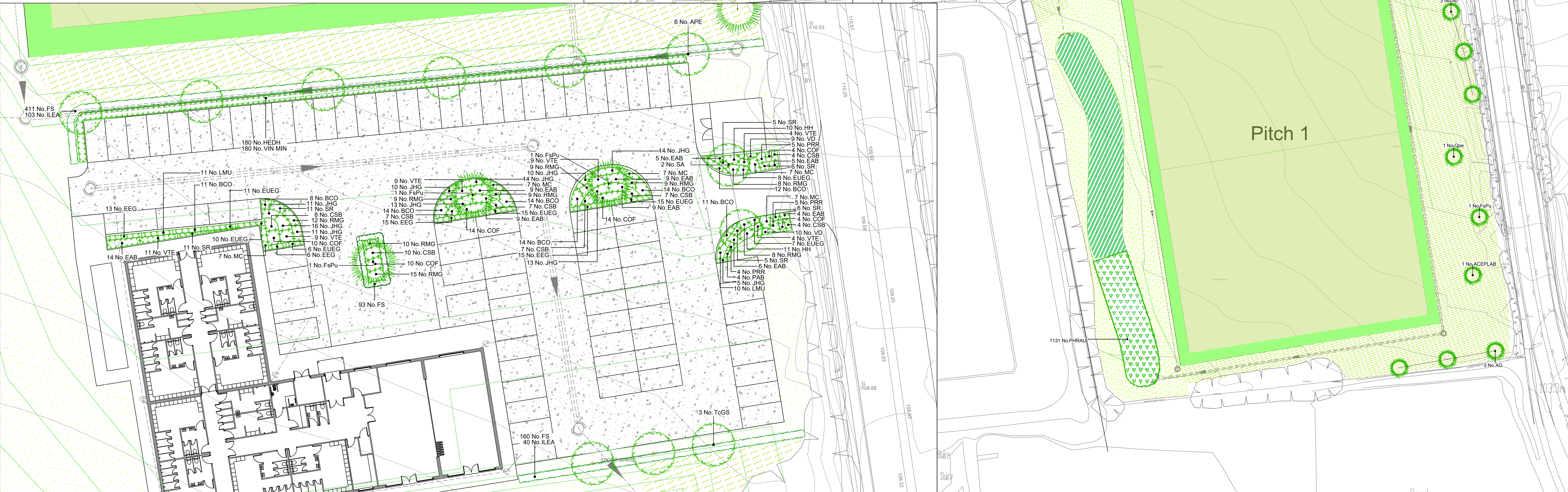
Groundcover Mix - Ivy & Vinca	Abbreviation	Species	Specification	Pot Size	Height	Density	Percentage Contribution	Number
HEDH	Hedera helix	3L		6m ²	50%			180
VIN MIN	Vinca minor	3L		6m ²	50%			180
Total: 360								

Native Shrub Mix	Abbreviation	Species	Specification	Height	Pot Size	Density	Percentage Contribution	Number
CORAV	Corylus avellana	Transplant	60-80cm	B	1m ²	20%		61
CM	Crataegus monogyna	Transplant	60-80cm	B	1m ²	20%		61
ILEA	Ilex aquifolium	C	60-80cm	3L	1m ²	10%		31
PRUSP	Prunus spinosa	Transplant	60-80cm	B	1m ²	20%		61
ROSAR	Rosa arvensis	Transplant	60-80cm	B	1m ²	10%		31
ROSCA	Rosa canina	Transplant	60-80cm	B	1m ²	10%		31
VIBOP	Viburnum opulus	Transplant	60-80cm	B	1m ²	10%		31
Total: 307								

GRASS SEED A22 - To be sown at a rate of 50g/m²
A22 Hard Wearing, Low Maintenance. Available from Germinal GB Ltd. Tel: 01522 868714 (or similar approved)

GRASS SEED - swale
Greenita Embankment Mat - pre-seeded with Seed Mix 2A
Available from: Greenita Tel: 01386 881493
or similar approved.

SCALE: 1:200



SPECIFICATION

GROUND PREPARATION - GENERAL

Preparing for topsoil

Grading and cultivation shall be in accordance with BS 4428:1989 section 4. Subsoil that is to receive topsoil shall, whether obviously uncompacted or not, be thoroughly broken up by hand, by heavy machinery, by subsoiler or lined equipment with adequate gears made to thoroughly turn to a depth of 100mm, cleared of all large stones, bricks, perennial weeds, tree roots (excluding living tree roots), coarse vegetation and other extraneous matter.

Subsoil grading

Subsoil shall only be graded after loosening as above, and fill shall be undertaken by the use of a tractor and blade grade or large areas and by a small mechanical grade or by hand on small areas. Ground shall at no time be travelled by heavy machinery, for grading or any other purpose after subsoiling and/or topsoiling has taken place.

Making an area

When subsoil is deposited in low lying areas to raise formation levels, it shall be lightly consolidated and left broken up ready to receive topsoil. Imported fill material shall be natural subsoil free from stones 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

Topsoil to be supplied shall be approved by the Landscape Architect and details of the source of supply shall be provided in order that inspection may be made before delivery commences. Topsoil shall conform to BS 3882:2015. Recommendations and classifications for topsoil, classed 4 to 6. The soil shall be free of weeds, roots or perennial weeds, pests, diseases, debris, tree roots, stumps, subsoil and foreign matter and shall be capable of being broken down to a fine fib.

Spreading topsoil

Prior to topsoil replacement the formation level shall be checked of all stones, rubbish, debris with any one dimension greater than 75mm. Areas to be topped or surfed shall be covered by topsoil 100mm thick and shall be planted with 30mm stock. Topsoil shall be spread in an evenly consolidated layer and shall be left covered of all roots, stones and debris with any one dimension greater than 50mm throughout its depth. Unless otherwise stated the finished level shall be 25mm above adjacent hard areas. No topsoil shall be spread until the subsoil has been inspected by a Landscape Architect.

PLANTING

Cultivation

Planting areas shall be cultivated to a depth of 225mm in the original ground, or where the ground is compacted, ripped and compacted. Picked off stones, bricks, timber and all other debris within which have any dimension greater than 50mm and remove debris to tip. Do not cultivate across any drain where the drain is flush with the ground surface.

Soil improvers

Where soil improvers, fertilisers or other additives shall be incorporated into the soil. Spread mushroom compost or similar shall be spread to the specified thickness and incorporated, by rotavating, into the top 150mm. Fertilisers, organic or inorganic, shall be taken into the top 20mm.

Rejection of plants

All plant material supplied in accordance with the minimum requirements in BS 3091:1993 Specification for trees and shrubs and BS 3094:4:2007 Specification for forest trees and BS 6545:2014 Trees from Nursery to Independence in the Landscape. Any plant material, which is the opinion of the Landscape Architect, does not meet the requirements of the Specification, or is unsuitable, or defective in any other way, will be rejected. The minimum specified scales in the plant schedule will be strictly enforced. The contractor shall replace all plants rejected at his own cost.

Planting

All plant material shall generally be planted between November and March in open cold weather. Planting shall not take place in frosty, snowy or waterlogged conditions. Where approved, pot or container grown plants may be planted outside the specified season, but adequate watering shall be supplied. Top or damaged roots and branches shall be clearly pruned prior to planting.

Planting of whips, transplants and shrubs

The size and shape of the material to be planted is to be as ordered and the contractor shall allow for planting to be properly carried out in all cases as described in BS 4428:1989 section 7. Where necessary, section 7. Woodland planting and section 8. Planting of shrubs, transplants and whips. All plants shall be planted at same depth, or very slightly deeper, as they were grown. Roots shall not be bent. Where necessary, the material shall be planted in a hole which is 100mm wider than the root ball. All plants shall be planted in a hole which is 100mm wider than the root ball. All plants shall be planted in a hole which is 100mm wider than the root ball. All plants shall be planted in a hole which is 100mm wider than the root ball.

Tree planting within soft landscape areas

Trees shall conform to BS 3091:1993 and be planted in tree pits of the following sizes unless directed otherwise:
Fastest trees - 100 x 100 x 450
Selected standards - 100 x 100 x 450
Heavy standards/Extra heavy standards - 120 x 120 x 450
Excluded subsoil or stone shall be carried off site to tip. The bottom 250mm of the pit shall be dug and broken up. The bottom of the pit shall be backfilled with subsoil (not imported) to comply with BS 8001:2015. The top 100mm of the pit shall be backfilled with imported topsoil as specified unless directed otherwise.

Compost for planting pits

Current advice recommends the use of a good quality compost product, best based incorporating well rotted and improving additives. The type of compost shall be approved before its delivery on site, and the details of the product shall be supplied. Compost, planting compost is approved. Where directed compost shall be added to and mixed with topsoil backfill at the following rates:
Selected standards - 60 litres
Heavy standards/Extra heavy standards - 80 litres

Stakes for trees

Stakes shall be peeled round smooth, unpeeled, minimum diameter 75mm. The stakes shall be driven into the base of the tree pit prior to placing the tree and backfilling. Stakes shall be general base a clear height above the finished ground level as follows unless directed otherwise:
Fastest trees - 750mm (one tie)
Selected standards - 800mm (2 stakes, one tie each)
Heavy standards/Extra heavy standards - 1200mm (2 stakes, one tie each)
The stakes shall be long enough to drive until they hold the tree firmly without rocking.

Tree ties

The tie for selected trees shall be approved rubber nalon tie with cushioned spacer such as Torm, or other equal and approved. Nails shall be flat headed galvanised and shall hold the tie securely into the stake. The tie shall not be over tight on the tree stems. Tie available from J. Toms Limited, Wheeler Street, Huddersfield, Ashford, Kent, TN27 9SE.
Fastest trees - 60 (one tie)
Selected standards - 7 (one tie per stake)
Heavy standards/Extra heavy standards - 1 (one tie per stake)

Tree for rootball and container grown trees

Trees for rootball and container grown trees shall be 50mm rubber tree belts in a figure of eight around the tree. Fixed to the stake with two flat head galvanised nails.
Fastest trees - one belt
Selected standards/Trees - two belts
Heavy standards/Extra heavy standards - two belts

Planting of trees

The tree shall be set upright and at the same depth as grown in the nursery, the roots shall be spread out (bareroot) and the soil followed by compost topsoil mixture, backfilled. Backfilling should be done to ensure close contact between roots and soil by firming in layers (patting). The soil shall be left level and left to settle. Any subsoil, debris or stones over 50mm arising, collected and carried off site.

Mulching

A 50mm compacted layer of medium grade pulverised bark, with a particle size of not more than 100mm and containing no more than 10% fines, shall be spread to form a continuous layer covering the whole of the bed, or in the case of standard trees within grass shall be in the form of a circle or 600mm diameter around the base of the tree. Whips and transplants shall be mulched in the form of a 300mm diameter circle around the base of the tree. Where trees are planted within grass a circular heavy mulch mat is required beneath the type of mulch at the diameters stated above, secured with living pegs. The tree pit surface shall be as big as possible.

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, topping, lopping or removal of roots is to take place without prior consent of the local authority.
Any 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 site works commencing.
Under no circumstances shall any materials be stored under the canopy of existing trees, and to prevent, disposal of all stored near them.
No vehicles should pass under the canopy of existing trees.
No fire should be lit in close proximity to existing trees.
No pipes, cables, services or notice boards shall be fixed to existing trees.
Under no circumstances should the levels around existing trees be either raised or reduced.
Soilfilling may only be erected within protected areas if it is done so in accordance with BS 5837.
Any excavation under existing tree canopy spreads shall be done by hand.

GRASS SEEDING AND MAINTENANCE

Soil Preparation and Cultivation

Final grading of topsoil shall be agreed 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 tip. Cultivate soil shall be rolled and set to produce a 500 20mm stage. Allow for hand cultivation where machine work is not possible. Seed sowing must immediately follow the preparation of the seed bed.

Seeding

Seeding shall be carried out during calm weather. All sowing is at the contractor's own risk and any areas where germination fails shall be re-seeded at the contractor's own expense.
The operation should be carried out in equal sweeps and transverse directions and the seed shall be taken at the rate of 50 grammes per sq. m, and over-sowing shall be at a rate of 20 grammes per sq. m.

Seed Mix

Seeds shall be of the composition, purity and germination as specified in BS 4428:1989. Certificates of purchase shall be provided to all deliveries prior to the sowing of grass seed sowing source, mixture, purity and germination percentage.
Alternative cultures of the above species may only be used if approved by the landscape architect.
The seed mix to the sowing shall be 2A supplied as a pre-seeded mat, available from Greenita.
All other grass areas shall be A22 mix, obtainable from Germinal Seeds GB.

Protection of Newly Seeded Areas

All responsible precautions shall be taken to ensure that pedestrian and other traffic does not cross the grass areas during cultivation, seeding or until grass is established. Where obvious 'short cutting' is occurring, the contractor shall erect an approved temporary fence so as to minimise the maintenance period or until such time as it is no longer necessary, or as directed.

First Cut

When the grass is 100mm high, after approximately 6 to 10 weeks, it shall be cut down to 50mm so as to avoid root pulling. If the grass has been allowed to grow any longer than 100mm then the cuttings shall be raised off and taken off site.
Second Cut
When the grass is 60mm high a second cut shall be carried out using a roller mower. No more than one third of the foliage may be removed.
Subsequent Cuts - Close mown grass
Cutting shall be undertaken on a monthly basis during March to September. Grass shall be cut down to 40-50mm with a flat type mower.

Subsequent Cuts - Longer grass

After the second cut, the grass shall be cut annually during October.
Making Good
Any deficits such as shrinkage, ponding, sparse germination or disease shall be made good and re-seeded as above.

Damage to Existing Grass

The contractor will be responsible for cultivating, seeding and maintaining, as above all areas of existing turf that are damaged during the course of the works for reasons of drainage, working areas, transport of materials excepting those areas which are specifically defined and measured in the contract.
Any areas, which in the opinion of the Landscape Architect, are consolidated during the course of these works, shall be loosened with a ripper or other suitable implement to ensure adequate drainage through the sub soil.

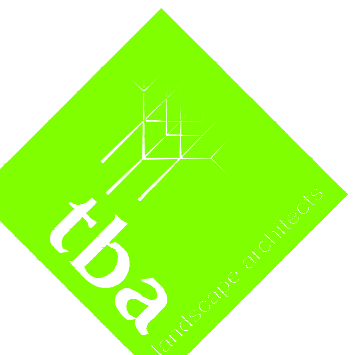
MAINTENANCE

All maintenance to be carried out up to handover to the adopting authority from the date of planting and seeding to ensure successful establishment. All dead, diseased, damaged plants must be replaced during the time taken to issue the Local Planning Authority status, in writing, any variation to this.

Weeding

All beds to be kept weed free by hand weeding. Beds to be forked over as necessary to keep soil loose to approved weather with no holes.
Pruning
At appropriate time, prune plants to remove dead, dying or diseased wood and suckers to promote healthy growth and natural shape.
Watering
The Contractor shall ensure that sufficient water is applied to maintain healthy growth.
Lime
Soil to be kept free of lime.

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Landscape Architecture
Arboriculture

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Project	Bury New Road, Little Lever, Bury
Title	Landscape Proposal
Date	Apr '21
Scale(s)	1:500 & 1:200
Dwg no	6685.01
Rev	B
Drawn	MD
Checked	NC
At	@ AO