SPECIFICATION NOTES - REFER ALSO TO THE MEASURED WORKS SCHEDULE.

A) Setting out

1. Planting shall be set out exactly as shown on the drawing, and measured from existing fixed points. Curved beds shall be set out using radii scribed on the ground using two pointed stakes and a line between, or with site marker paint. The junction between convex and concave curves shall be cut to form a smooth and even flowing line. Check that all setting out conforms to the plan before cultivation and planting works are carried out. Failure to do so may result in rejection of the work by the landscape architect and may require amendment at the contractor's expense.

2. All planting beds shall be a minimum of 1 metre wide, except where there is insufficient space, due to the constraints of walls and path edgings and their foundations. With narrow beds between walls/ fences and path edgings, ensure that the bed has space free from concrete footings before planting. If the bed is sealed with concrete, then the landscape contractor shall contact the site manager or landscape architect to determine if footings are excessive and can be reduced or else, the bed can be paved. The width of all beds will be checked by the inspecting landscape architect and where the width is not as drawn, the contractor shall re-cultivate them to the specified width at his own expense.

B) Ground preparation

1. Pre-planting herbicide application:- Apply by suitable spraying aparatus, an approved translocated systemic herbicide to the manufacturer's instructions and to 1997 Control of Pesticides Regulations and 2003 COSHH regulations on all beds, except those which are both weed free and are to receive agrotextile sheet mulch. Spray immediately if any weeds are present. If none are showing, but there may be a delay before planting, or the area is to be seeded, spray after one month following cultivation, to allow dormant seed to germinate. All spraying shall be carried out by skilled and qualified operatives, using protective clothing, in suitable weather (no wind) and any damage caused by spray drift, from incorrect usage or spillage, shall be rectified at the contractor's own cost. Repeat as necessary to ensure complete kill and rake off all dead material from site.

2. Carry out the following works to the existing topsoil on site to ensure it Conforms to BS 3882:2007, being free from rocks larger than 50m diameter, concrete, all roots, wire, brick, and have less than 20% clay. Allow for pre-application of herbicide as above. Fertilise with 100g per meter square of Hortibase CRF (16-8-12) slow release fertilizer, in accordance with the manufacturer's instructions. For beds less than 5 meters in width, fork over thoroughly or machine rotovate soil to a depth of 300mm, ensuring that the subgrade and topsoil are completely broken up and free draining, relieving any compaction. For beds greater than 5 metres in width, break up the subgrade and topsoil using a tractor mounted subsoiler or ripper at 500mm centres to a depth of 500mm,except where there are services, or within 10 meters of tree stems or 3 meters of existing hedges. Do not rip areas where roots greater than 10mm diameter are encountered.

3. Determine before submitting a tender, the extent of support from the site manager with ground preparation: ensure soil of all planting beds is graded to a level 65mm below adjacent grass or paved surfaces, (90mm below where agro- textile set mulch is not specified), within 400-600mm of edges to ensure bark or wood chip mulches are retained. Where grass is proposed, then the soil level shall be flush (maximum 10mm below - but never proud) of adjacent paved surfaces, to receive rain water run off. The landscape contractor is responsible for ensuring that the final product conforms to the specification even where the developer and/or main contractor have failed to supply and spread topsoil to the recessed level. The landscape contractor shall allow for adjustment of levels, as specified above, including for re-grading subsoil and topsoil. Where beds are sloping, ensure that topsoil is graded to the specified levels below pavement & grass surfaces within 400mm of the edges of the bed. This is to allow for sheet mulch and bark or wood chip mulch so that mulch does not spill out on to pavements and also to allow surface water to drain from paths on to planted areas.

4. For sloping areas to be turfed adjacent to paved areas, topsoil levels shall be graded flush with the finished pavement level (or up to 10mm below),to allow surface water to drain from pavements to soft areas. Soil of grass areas should therefore never be proud of paved areas. Soil levels more than 10 mm below pavement edges will cause mower damage on cutting.

5.Imported topsoil (where specified and sanctioned by the employer) for making up ground, shall conform to BS 3882: 2007, and be free from rocks (over 50mm diameter), concrete, roots, wire and brick, and have less than greater than 20% clay. Such soil shall be cultivated as set out above. Representative samples shall first be approved by the landscape architect before being supplied to site. No imported soil shall be supplied to site without a written instruction.

C) Planting

1. All planting must be carried out in accordance to the specification and schedule of quantities accompanying these drawings. Refer to the specification for the preparation of existing topsoil and required depths for planting, turfing, and standard trees, and also for maintenance requirements.

2. No substitutions will be accepted without the prior agreement of the inspecting landscape architect. The contractor shall replace at once at his own cost any stock size, species or variety of plant which has not been specified on the planting plan and schedule, unless prior agreement to a substitution by the landscape architect has been received. All plants shall be true to size specified in the schedule of plants and associated notes, (3L pots are 19cm diameter and 15cm deep). All shrubs, (other than ground cover), shall be 400-600mm height and spread, or otherwise specified for the pot size by the HTA National Plant Specification and be bushy, healthy, disease free stock, not pot bound, leggy or spindly. There should be a minimum of 5 breaks per shrub. This specification is the minimum standard required and any stock falling below this standard, in the sole opinion of the inspecting landscape architect,shall be lifted and replaced at the contractor's expense.

3. All shrubs, herbaceous plants, whips and transplants shall be watered in on planting with 20 litres per square metre. Trees shall be watered in with 25 litres per tree position. Water thereafter during the contract period at weekly intervals with 30 litres of water.

4. Proposed large feathered or standard trees to be true to the species, variety and size as specified on the planting plan, to include 1.6m chestnut stake 600mm above ground and 1000mm below ground) and 1No. sackcloth tie with spacing device positioned 25mm maximum from the top of the post.

5. Turf to be of cultivated grade such as Rowlawn "Medallion", or other of similar quality and source, approved by the landscape architect. The contractor shall replace at once any turf rejected by the landscape architect at his own cost.

6.Self clinging climbing shrubs or wall shrubs, with "S" drawn after the climber name, shall be trained to the wall/fence with heavy duty, plastic coated garden wire. Training wires shall be attached vertically to the wall/fence by means of 125mm long stainless steel eye screw fittings. Position 1No. at 250mm from ground, and 1No. 250mm from top of the wall/fence, and string the wire tightly between the fixings. Train the climber to the wire with plastic coated garden wire tags.

7. Twining varieties of climber, with "T" drawn after the climber's name (in specially prepared pits or general shrub beds) shall be trained to walls/ fences by mounting ready-made trellis panels 1.8 x 1.8m generally (but 1.8 x 0.6m for corners or where space is restricted). Include for adapting any panels for locations where walls or fences are lower than 1.8m. Fix trellis panels to the walls/ fences using non rusting screws 125mm long (to be approved), incorporating 50mm cube wood spacing blocks to ensure that the panel is mounted sufficiently far from the wall/ fence to allow twining of stems. Ensure that all timber is pressure impregnated with a non phyto-toxic preservative and then painted with a dark brown non phyto-toxix preservative wood stain such as Sadolin "Classic" walnut or similar and approved. Ensure that the trellis is not in contact with the ground. Train the climbing shrub to the trellis with plastic coated garden wire tags.

D) Mulch

1. When specified by the additional specification notes on this plan, supply and spread suitable biodegradeable sheet mulch over planting beds, previously cultivated, graded and fertilized topsoil before planting, and peg down at a minimum of 500mm centres, (300mm at edges) and beds less than 1m wide. Pegging this densely is essential to prevent flaps of material becoming exposed. Refer to the specification for biodegradable sheet mulch on plan.

2. Following planting supply and spread evenly Melcourt Industries "Edwards of Brandon" to a depth of 50mm, (75mm if no sheet mulch specified), over all planted areas. Finished mulch levels shall be no higher than 15mm below pavement or grass levels to avoid any spillage onto pavements or lawns. N.B. no substitution of mulch type will be acceptable. It is essential to have a no-fines, large particled, brown wood chip to reduce weed growth, reduce wind blow and prevent rapid break down.

E) BS codes

1. All workmanship and materials shall conform to the following codes:-
A) General landscape operations (excluding hard surfaces) - BS 4428:1989.
B) Trees in relation to construction- BS 5837: 2012 and BS 6549:1999. BS 3998:2010 (recommendations for tree works) unless otherwise specified. Arboricultural Association - Standard Conditions of Contract and Specifications of Tree Works 1996.
C) Nursery stock in accordance with latest horticultural trade association nursery stock specification entitled "National Plant Specification 2001".
Plants shall conform to:
-BS 8545 : 2014 Trees from Nursery to Independence in the Landscape
-BS 3936-1 : 1992 Nursery Stock - Specification for trees and shrubs.
-BS 3936-2 : 1990 Nursery Stock- Specification for roses + AMD 6628.
-BS 3936- 4 : 2007 Nursery stock- Specification for forest trees.
-BS 3936-9 : 1998 Nursery stock- Specification for bulbs, corms and tubers.
-BS 3936-10 : 1990 Nursery stock- Specification for ground cover shrubs.
-CPSE-Committee for Plant Establishment, Handling and establishing landscape plants 1995, Part 3, paragraphs 6.2 to 6.6.
D) Glossary for Landscape Works BS 4428 :1989
E) Turf - BS 3969:1998- recommendations for turf for general purposes.
F) Seeding - EEC Regulations 1974. Use blue labelled certified varieties to EC purity and germination regulations. When requested, submit an officia seed Testing Station Certificate of germination, purity and composition.
G) Topsoil - BS 3882: 2007
H) Pesticides: Control of Pesticides Regulations 1997;The Health and Safety at Work Act 1974; the COSHH Regulation 2003, the product COSHH sheet Water Supply (Water Quality.) Regulations amended 2000; Control of Pollution Act 1974; Hedgerow ACT 1997; Wildlife and Countryside Act 1981; Countryside and Rights of way Act 2000.

GENERAL NOTES FOR THE DEVELOPER.

A) Tree protection
1. Any existing trees to be retained, are the responsibility of the main contractor on site who shall take all necessary protective measures set out in BS 5837:2012 to ensure no damage to stems or roots, to prevent compaction from vehicles or storage of materials, contamination of soil from spillages, scorching from fires and instability or stress from changes of soil level. The landscape contractor is however responsible for ensuring that neither plant, materials or labour are cause of any damage to existing trees, and like the employer, the landscape contractor shall replace at once any tree damaged on site, supplying and planting a tree of the same species and size, at his own cost. Protection barriers will comprise a scaffold framework in accordance with Figure 2 of BS 5837:2012 (The BS).
The framework will consist of vertical and horizontal scaffolds with vertical tubes spaced at no more than 3m intervals and driven into the ground. Weld mesh (Heras or similar) panels will be securely fixed on to this framework with wire or scaffold clamps. Tubes will be driven into the ground to a minimum depth of 600mm. Supporting struts will be fixed to the inside of the barrier to ensure maximum rigidity.

B) Ground work

1. Soil levels: soil levels for shrub beds and grass areas should have any compacted subgrade thoroughly broken up by machine before instructing the ground worker to spread topsoil of the landscape contractor to commence work or the beds will become waterlogged in wet weather and the plants and turf will die.

2. Top soil spread from on site should be to the following minimum depths:- Shrub beds: 350mm. Grass areas 150mm. allow for excavation of 415mm of the subgrade for shrub beds to leave beds 65mm below finished pavement or grass areas in order to receive sheet and bark mulch, (90mm below where sheet mulch is not to be used). Tree pits will be dug by the landscape contractor. Top soil shall be spread for grass areas flush with any areas of paving and after settlement, the soil level should be no greater than 10mm below paved areas to allow for turf. For areas to be grass seeded, the soil level shall be flush with any finished paved surfaces after settlement (or to a maximum of 5mm below) to allow for rain water to drain onto soft surfaces. Settlement shall be no greater than the tolerances given or problems will be encountered with mowing (the blades in danger of touching concrete edgings) or where soil is proud of pavements, then drainage problems will be encountered.

3. Existing topsoil and imported soil shall conform to BS 3882:2007, and be free from compaction, rocks/bricks greater than 50mm diameter, concrete, wire, roots, debris oil, cement and builders rubble. Soil shall have a clay content of less than 20%.

C) Hardworks

1. Hard works, unless otherwise agreed, shall be carried out by the developer or main contractor, and all materials and workmanship shall be in accordance with the construction details and the layout plan.

2. All paths and edgings shall be set out properly to lines and radii, with all curves scribed on the ground using pointed pegs and string or site marker paint, achieving flowing natural arcs. Setting out shall be agreed with the landscape contractor and subsequently the landscape architect.

3. Hard surfaces shall be constructed after suitable base courses have been laid, taking full account of local site conditions, soft spots and substrate. The indicative depths of base courses are minimum depths assuming suitable substrate conditions.

4. All metalwork shall be finished hot dipped galvanized in accordance with BS EN ISO1460. The galvanizer shall be responsible for the thorough removal of all galvanizing smuts (fettling) to the complete satisfaction of the Landscape Architect. The decorating contractor shall prepare the galvanized surface by washing with detergent and water and scrubbing with a scouring pad until all dirt, grease, white rust & sulphates have been removed & then allowed to dry thoroughly. Supply and paint 'Icosit 6630' from Sika Ltd (tel. 01707 374444) applied with a turkhead brush strictly in accordance with the manufacturers instructions, COSHH regulations and the product COSHH sheet. Apply 2No. coats of paint with a dry film thickness of 100 microns per coat. Apply paint only when galvanized surface is thoroughly dry at temperatures above five degrees celsius and in any event above the current dew point temperature. Paint work will be subject to inspection by experts and if found wanting, shall be stripped off, re-prepared and applied entirely at the decorating contractors own cost.

5. All wood work to use ACQ water based wood preservative applied by vacuum pressure by Permawood or other similar and approved company. The timber shall then be stained with 3No. coats of Sadolin 'Classic,' colour 'Walnut' strictly in accordance with the manufacturers instructions, COSHH Regulations 2003 and product COSHH sheet.

GENERAL NOTES

- ALL DIMENSIONS IN MILLIMETRES
- DO NOT SCALE OFF THIS DRAWING
- ALL DIMENSIONS TO BE CHECKED ON SITE

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SPECIFICATION FOR "COVERTEX" SHEET MULCH FOR GRAVEL AREAS

INTRODUCTION

"COVERTEX" is a woven black polypropelene fabric, 102g/m2 which is manufactured in Ultraviolet resistant (black) form. This product is available from Hy-Tex U.K. Ltd., PO Box 97, Adlington, Ashford, Kent, TN25 7EK. Telephone (01233) 720097.

SPECIFICATION

1. Prepare ground to ensure it is even and firm. For any planted or seeded patches and areas the soil shall be lighting and evenly cultivated until friable.

N.B. Ensure that the finished soil level is even at least 55mm below adjacent pavement or grass levels to receive sheet mulch and gravel. For sloping beds ensure that soil levels are 55mm below pavements or grass areas within 600mm of bed edges, the remainder can slope.

2. Place "Covertex" sheet mulch over soil to be planted. Unroll materials, placing in overlapping rows (overlap to be no less than 50mm).
3. Bury 200mm flap of material (from the back – see diagram below) at the extreme edge of the planting bed, or nail to concrete haunch of path edging with masonary nails @ 1m centres
4. Secure material in position by hammering in 300mm metal pegs at 500mm centres. (300mm centres @ non buried edges) Metal hoops for pegging are available from Hytex Ltd.
5. Place any specimen plants on beds in intended positions.
6. Cut the fabric with sissors in "+" shape for each plant position, 400mm across.
7. Pit plant the specimen plants, holding back the flaps of fabric, and carefully replace around the stem. Spread topsoil under sheet if friable. Remove all compacted topsoil clods from site, ensure no soil is left on top of sheet.
8. Once all the plants are planted, cover the fabric all over with 40mm of clean, washed, cream/buff coloured gravel, 20mm guage.
9. Finally, water the plants thoroughly ensuring that each plant receives 2 gallons of water if the soil is dry or in warm weather conditions, otherwise apply 25L/m2.

INSET:– LAYING SHEET MULCH FOR GRAVEL AREAS

2. BURY — 3. FOLD OVER — 4. PEG — 1. TRENCH — PATH OR GRASS ADJACENT TO BED

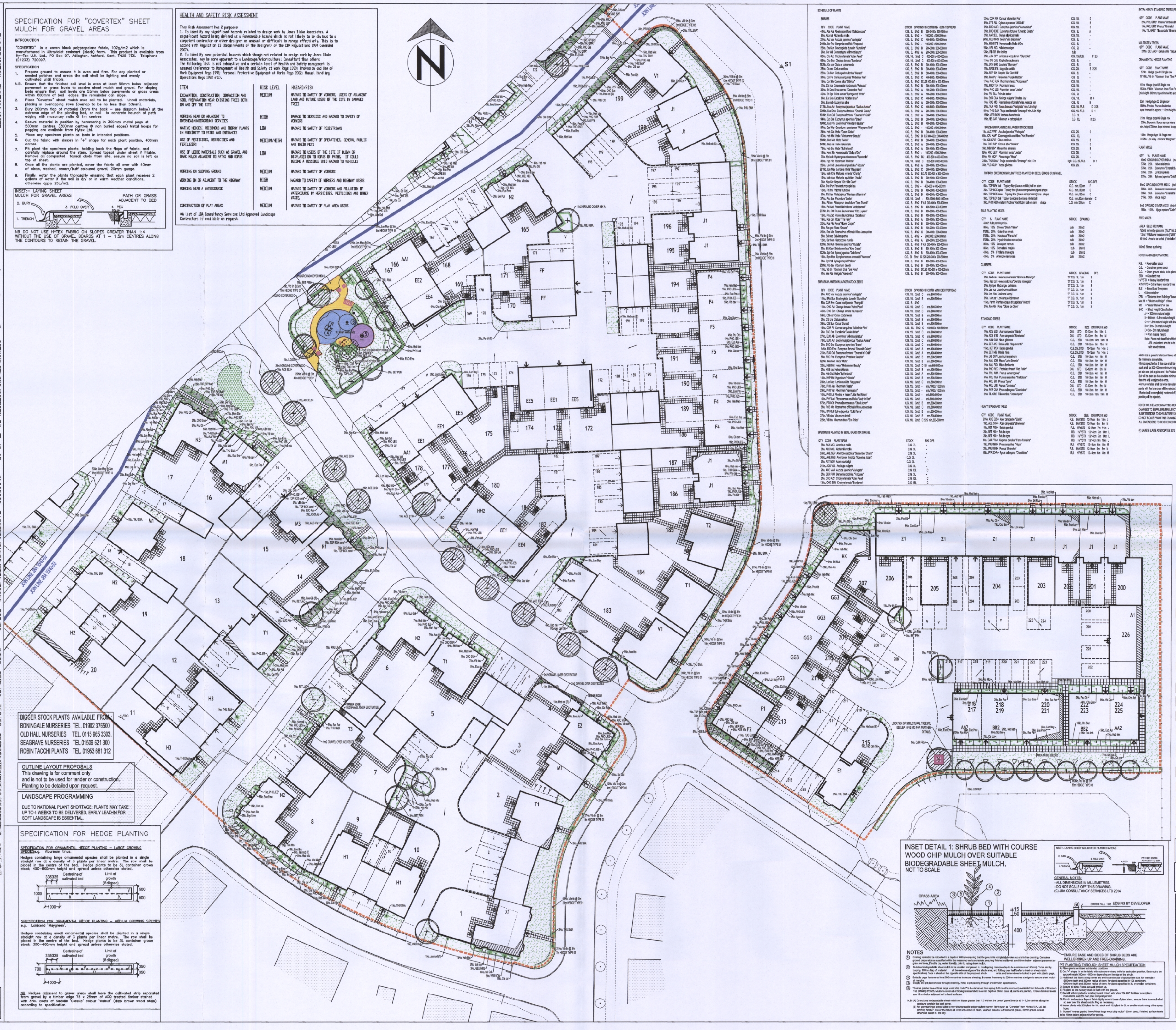
NB DO NOT USE HYTEX FABRIC ON SLOPES GREATER THAN 1:4 WITHOUT THE USE OF GRAVEL BOARDS AT 1 – 1.5m CENTRES ALONG THE CONTOURS TO RETAIN THE GRAVEL.

HEALTH AND SAFETY RISK ASSESSMENT

This Risk Assessment has 2 purposes:
1. To identify any significant hazards related to design work by James Blake Associates. A significant hazard being defined as a foreseeable hazard which is not likely to be obvious to a competent contractor or other designer or unusual or difficult to manage effectively. This is to accord with Regulation 13 (Requirements of the Designer) of the CDM Regulations 1994 (amended 2007).
2. To identify some potential hazards which though not related to design work by James Blake Associates, may be more apparent to a Landscape/Arboricultural Consultant than others. The following list is not exhaustive and a certain level of Health and Safety management is assumed (reference to Management of Health and Safety at Work Regs 1999; Provision and Use of Work Equipment Regs 1998; Personal Protective Equipment at Works Regs 2002; Manual Handling Operations Regs 1992 etc).

ITEM	RISK LEVEL	HAZARD/RISK
EXCAVATION, CONSTRUCTION, COMPACTION AND SOIL PREPARATION NEAR EXISTING TREES BOTH ON AND OFF THE SITE	MEDIUM	HAZARD TO SAFETY OF WORKERS, USERS OF ADJACENT LAND AND FUTURE USERS OF THE SITE BY DAMAGED TREES
WORKING NEAR OR ADJACENT TO OVERHEAD/UNDERGROUND SERVICES	HIGH	DAMAGE TO SERVICES AND HAZARD TO SAFETY OF WORKERS
NATIVE HEDGES, POISONOUS AND THORNY PLANTS IN PROXIMITY TO PATHS AND ENTRANCES	LOW	HAZARD TO SAFETY OF PEDESTRIANS
USE OF PESTICIDES, HERBICIDES AND FERILIZERS	MEDIUM/HIGH	HAZARD TO SAFETY OF OPERATIVES, GENERAL PUBLIC AND THEIR PETS
USE OF LOOSE MATERIALS SUCH AS GRAVEL AND BARK MULCH ADJACENT TO PATHS AND ROADS	LOW	HAZARD TO USERS OF THE SITE IF BLOWN OR DISPLACED ON TO ROADS OR PATHS. IT COULD BECOME A POSSIBLE SKID HAZARD TO VEHICLES
WORKING ON SLOPING GROUND	MEDIUM	HAZARD TO SAFETY OF WORKERS
WORKING ON OR ADJACENT TO THE HIGHWAY	HIGH	HAZARD TO SAFETY OF WORKERS AND HIGHWAY USERS
WORKING NEAR A WATERCOURSE	MEDIUM	HAZARD TO SAFETY OF WORKERS AND POLLUTION OF WATERCOURSE BY HERBICIDES, PESTICIDES AND OTHER WASTE.
CONSTRUCTION OF PLAY AREAS	MEDIUM	HAZARD TO SAFETY OF PLAY AREA USERS

*A list of JBA Consultancy Services Ltd Approved Landscape Contractors is available on request.



BIGGER STOCK PLANTS AVAILABLE FROM:

BONINGALE NURSERIES	TEL. 01902 376500
OLD HALL NURSERIES	TEL. 0115 965 3303.
SEAGRAVE NURSERIES	TEL.01509 621 300
ROBIN TACCHI PLANTS	TEL. 01953 681 312

OUTLINE LAYOUT PROPOSALS
This drawing is for comment only and is not to be used for tender or construction. Planting to be detailed upon request.

LANDSCAPE PROGRAMMING
DUE TO NATIONAL PLANT SHORTAGE: PLANTS MAY TAKE UP TO 4 WEEKS TO BE DELIVERED. EARLY LEAD-IN FOR SOFT LANDSCAPE IS ESSENTIAL.

SPECIFICATION FOR HEDGE PLANTING

SPECIFICATION FOR ORNAMENTAL HEDGE PLANTING – LARGE GROWING SPECIES e.g. Viburnum tinus.

Hedges containing large ornamental species shall be planted in a single straight row at a density of 3 plants per linear metre. The row shall be placed in the centre of the bed. Hedge plants to be 3L container grown stock, 400–600mm height and spread unless otherwise stated.

(Diagram: 335335 — Centreline of cultivated bed — Limit of growth (if clipped) — 1000 — 500 — 500 — 1000)

SPECIFICATION FOR ORNAMENTAL HEDGE PLANTING – MEDIUM GROWING SPECIES e.g. Lonicera 'Maygreen'.

Hedges containing small ornamental species shall be planted in a single straight row at a density of 3 plants per linear metre. The row shall be placed in the centre of the bed. Hedge plants to be 3L container grown stock, 300–400mm height and spread unless otherwise stated.

(Diagram: 335335 — Centreline of cultivated bed — Limit of growth (if clipped) — 700 — 350 — 350 — 1000)

NB. Hedges adjacent to gravel areas shall have the cultivated strip separated from gravel by a timber edge 75 x 25mm of ACQ treated timber stained with 3No. coats of Sadolin 'Classic' colour 'Walnut' (dark brown wood stain) according to specification.

SCHEDULE OF PLANTS

SHRUBS

QTY	CODE	PLANT NAME	STOCK	SPACING	SHC	DFB	MIN HEIGHT/SPREAD
44No.	Abe Kal	Abelia grandiflora "Kaleidoscope"	C.G. 3L	5/m2	B		300-3400 x 300-400mm
8No.	Alc mol	Alchemilla mollis	C.G. 2L	6/m2	-		100-200 x 100-200mm
21No.	Auc Var	Aucuba japonica "Variegata"	C.G. 3L	3/m2	C		400-600 x 400-600mm
246No.	Ber Pur	Bergenia cordifolia "Purpurea"	C.G. 2L	5/m2	-		100-200 x 100-200mm
22No.	Bra Sun	Brachyglottis dunedin "Sunshine"	C.G. 3L	3/m2	B		200-300 x 200-300mm
9No.	Car Wil	Ceratostigma willmottianum	C.G. 3L	4/m2	A		200-300 x 200-300mm
68No.	Cho Azt	Choisya ternata "Aztec Pearl"	C.G. 10L	3/m2	C		400-600 x 400-600mm
63No.	Cho Sun	Choisya ternata "Sundance"	C.G. 10L	3/m2	C		400-600 x 400-600mm
192No.	Cis cor	Cistus x corbariensis	C.G. 5L	3/m2	B		300-400 x 300-400mm
26No.	Cis cre	Cistus creticus	C.G. 5L	3/m2	B		300-400 x 300-400mm
25No.	Cis Sun	Cistus pulverulentus "Sunset"	C.G. 5L	3/m2	B		300-400 x 300-400mm
31No.	Cor Fir	Cornus sanguinea "Midwinter Fire"	C.G. 10L	3/m2	C		400-600 x 400-600mm
12No.	Cor Sib	Cornus alba "Sibirica"	C.G. 15L	3/m2	D		2.25 400-600 x 400-600mm
7No.	Cot hor	Cotoneaster horizontalis "Robusta"	C.G. 5L	3/m2	B		300-400 x 300-400mm
32No.	Eri Dec	Erica carnea "December Red"	C.G. 2L	7/m2	A		100-200 x 100-200mm
42No.	Eri Spr	Erica carnea "Springwood White"	C.G. 2L	7/m2	A		100-200 x 100-200mm
8No.	Esc Bra	Escallonia "Golden Brian"	C.G. 5L	3/m2	C		400-600 x 400-600mm
5No.	Euo Alb	Euonymus alba	C.G. 3L	5/m2	A		200-300 x 200-300mm
217No.	Euo Aur	Euonymus japonicus "Ovatus Aureus"	C.G. 5L	3/m2	C		400-600 x 400-600mm
339No.	Euo Eme	Euonymus fortunei "Emerald Gaiety"	C.G. 3L	5/m2	A		200-300 x 200-300mm
103No.	Euo Gol	Euonymus fortunei "Emerald 'n' Gold"	C.G. 3L	5/m2	A		300-400 x 300-400mm
94No.	Euo Bra	Euonymus japonicus "Bravo"	C.G. 5L	3/m2	B		300-400 x 300-400mm
190No.	Euo Pre	Euonymus "President Gaultier"	C.G. 5L	3/m2	B		400-600 x 400-600mm
97No.	Ger War	Geranium x oxonianum "Wargrave Pink"	C.G. 2L	5/m2	-		100-200 x 100-200mm
24No.	Heb Glo	Hebe "Green Globe"	C.G. 5L	3/m2	B		300-400 x 300-400mm
50No.	Heb Mid	Hebe "Midsummer Beauty"	C.G. 5L	3/m2	D		1.5 300-400 x 300-400mm
560No.	Heb Met	Hebe "Mette"	C.G. 5L	4/m2	B		300-400 x 300-400mm
149No.	Heb rak	Hebe rakaiensis	C.G. 5L	3/m2	A		300-400 x 300-400mm
73No.	Heb Sut	Hebe "Sutherlandii"	C.G. 5L	4/m2	A		300-400 x 300-400mm
18No.	Hem Ste	Hemerocallis "Stella d'Oro"	C.G. 3L	5/m2	-		100-200 x 100-200mm
7No.	Hyd arb	Hydrangea arborescens "Annabelle"	C.G. 5L	3/m2	D	2	400-600 x 400-600mm
35No.	Hyp Hid	Hypericum "Hidcote"	C.G. 10L	3/m2	C		600-800 x 600-800mm
28No.	Lav Hid	Lavandula angustifolia "Hidcote"	C.G. 2L	4/m2	A		300-400 x 300-400mm
281No.	Lon May	Lonicera nitida "Maygreen"	C.G. 3L	3/m2	C		300-400 x 300-400mm
12No.	Mah Cha	Mahonia x media "Charity"	C.G. 5L	3/m2	E	3.75	300-400 x 300-400mm
12No.	Mah App	Mahonia aquifolium "Apollo"	C.G. 3L	3/m2	B		300-400 x 300-400mm
3No.	Nep Six	Nepeta "Six Hills Giant"	C.G. 3L	5/m2	B		300-400 x 300-400mm
47No.	Pen Pur	Pennisetum purple lea	C.G. 3L	3/m2	-		400-600 x 400-600mm
13No.	Phl fru	Phlomis fruticosa	C.G. 5L	3/m2	B		400-600 x 400-600mm
7No.	Phi Her	Philadelphus "Manteau d'Hermine"	C.G. 5L	3/m2	B		400-600 x 400-600mm
37No.	Pho Jes	Phormium "Jester"	C.G. 10L	3/m2	-		800-1000 x 800-1000mm
3No.	Pit ten	Pittosporum tenuifolium "Tom Thumb"	C.G. 5L	3/m2	F	4.5	300-400 x 300-400mm
18No.	Pot Abb	Potentilla fruticosa "Abbotswood"	C.G. 5L	3/m2	B		400-600 x 400-600mm
207No.	Pru Ott	Prunus laurocerasus "Otto Luyken"	C.G. 5L	3/m2	B		400-600 x 400-600mm
12No.	Pru Zab	Prunus laurocerasus "Zabeliana"	C.G. 5L	3/m2	B		400-600 x 400-600mm
19No.	Ros can	Rosa "The Fairy"	C.G. 3L	3/m2	A		300-400 x 300-400mm
20No.	Ros Flo	Rosa "Flower Carpet"	C.G. 3L	3/m2	A		300-400 x 300-400mm
6No.	Ros gro	Rosa "Grouse"	C.G. 3L	3/m2	B		100-200 x 100-200mm
25No.	Ros Mis	Rosmarinus officinalis"Miss Jessops Var	*C.G. 5L	4/m2	C		300-400 x 300-400mm
6No.	Sal sup	Salvia superba	C.G. 3L	4/m2	-		200-300 x 200-300mm
12No.	Sar hum	Sarcococca humilis	C.G. 5L	4/m2	A		200-300 x 200-300mm
105No.	Ski Rub	Skimmia japonica "Rubella"	C.G. 3L	4/m2	F	4.5	300-400 x 300-400mm
7No.	Ski Kew	Skimia confusa "Kew Green"	C.G. 5L	3/m2	B		300-400 x 300-400mm
122No.	Spi Gol	Spirea japonica "Goldflame"	C.G. 5L	3/m2	B		300-400 x 300-400mm
19No.	Sym Han	Symphoricarpos chenaultii "Hancock"	C.G. 3L	3/m2	D	2.25	200-300 x 200-300mm
8No.	Syr Pal	Syringa meyeri"Palibin"	C.G. 5L	3/m2	B		400-600 x 400-600mm
258No.	Vib dav	Viburnum davidii	C.G. 5L	3/m2	B		300-400 x 300-400mm
11No.	Vib tin	Viburnum tinus "Eve Price"	C.G. 5L	3/m2	D	2.25	400-600 x 400-600mm
7No.	Wei Ale	Weigela "Alexandra"	C.G. 5L	3/m2	B		300-400 x 300-400mm

SHRUBS PLANTED IN LARGER STOCK SIZES

QTY	CODE	PLANT NAME	STOCK	SPACING	SHC	DFB	MIN HEIGHT/SPREAD
9No.	AUC Var	Aucuba japonica "Variegata"	C.G. 15L	2/m2	C		min.600-700mm
11No.	BRA Sun	Brachyglottis dunedin "Sunshine"	C.G. 10L	3/m2	B		min.500-500mm
8No.	CAR Eve	Carex hachijoensis "Evergold"	C.G. 5L	4/m2			
11No.	CHO Azt	Choisya ternata "Aztec Pearl"	C.G. 15L	2/m2	C		min.800-700mm
40No.	CHO Sun	Choisya ternata "Sundance"	C.G. 15L	2/m2	C		min.800-700mm
59No.	CIS cor	Cistus corbariensis	C.G. 10L	3/m2	B		min.500-500mm
5No.	CIS cre	Cistus creticus	C.G. 10L	3/m2	B		min.500-500mm
39No.	CIS Sun	Cistus "Sunset"	C.G. 10L	3/m2	B		min.500-500mm
16No.	COR Fir	Cornus sanguinea "Midwinter Fire"	C.G. 10L	3/m2	C		400-600 x 400-600mm
9No.	ESC Bra	Escallonia "Golden Brian"	C.G. 15L	3/m2	C		min.800-600mm
27No.	EUO Alb	Euonymus "Albomarginatus"	C.G. 15L	2/m2	C		min.800-600mm
78No.	EUO Aur	Euonymus japonicus "Ovatus Aureus"	C.G. 15L	2/m2	C		min.800-600mm
6No.	EUO Bra	Euonymus japonicus "Bravo"	C.G. 15L	2/m2	C		min.800-600mm
14No.	EUO Eme	Euonymus fortunei "Emerald Gaiety"	C.G. 10L	3/m2	A		min.400-400mm
21No.	EUO Gol	Euonymus fortunei "Emerald 'n' Gold"	C.G. 10L	3/m2	A		min.400-400mm
5No.	EUO Pre	Euonymus "President Gaultier"	C.G. 10L	3/m2	B		min.500-500mm
122No.	Heb Met	Hebe "Mette"	C.G. 10L	3/m2	B		min.500-500mm
32No.	HEB Mid	Hebe "Midsummer Beauty"	C.G. 10L	2/m2	D	1.5	min.500-500mm
5No.	HEB rak	Hebe rakiensis	C.G. 10L	2/m2	B		min.500-500mm
5No.	Heb Sut	Hebe "Sutherlandii"	C.G. 10L	3/m2	A		min.500-400mm
14No.	HYP Hid	Hypericum "Hidcote"	C.G. 15L	2/m2	B		min.800-700mm
23No.	Lon May	Lonicera nitida "Maygreen"	C.G. 10L	3/m2	C		min.500-500mm
78No.	PHO Jes	Phormium "Jester"	C.G. 15L	3/m2	-		min.1000x 1000mm
29No.	PHO Var	Phormium "Variegatum"	C.G. 15L	3/m2	-		min.1000x 1000mm
10No.	PHO Lit	Photinia x fraseri "Little Red Robin"	C.G. 15L	3/m2	-		min.800x 800mm
6No.	PHY Lad	Physocarpus opulifolius "Lady in Red"	C.G. 15L	3/m2	-		min.800x 800mm
57No.	PRU Ott	Prunus laurocerasus "Otto Luyken"	C.G. 10L	3/m2	B		min.600-400mm
6No.	ROS Mis	Rosmarinus officinalis"Miss JessopsVar	*C.G. 10L	3/m2	C		min.600-400mm
79No.	SPI Gol	Spirea japonica "Gold Flame"	C.G. 10L	3/m2	B		min.800-600mm
37No.	VIB dav	Viburnum davidii	C.G. 10L	3/m2	B		min.500-400mm
22No.	VIB tin	Viburnum tinus "Eve Price"	C.G. 10L	2/m2	D	2.25	min.600-600mm

SPECIMENS PLANTED IN BEDS, GRASS OR GRAVEL

QTY	CODE	PLANT NAME	STOCK	SHC	DFB
3No.	ACA MOL	Acanthus mollis	C.G. 7L	-	
3No.	ALC MOL	Alchemilla mollis	C.G. 3L	-	
24No.	ANE SEP	Anemone japonica "September Charm"	C.G. 3L	-	
30No.	ANE HYB	Anemone x hybrida "Honorine Jobert"	C.G. 3L	-	
3No.	AST NOV	Aster novibelgii	C.G. 3L	-	
21No.	AQU VUL	Aquilegia vulgaris	C.G. 3L	-	
2No.	AUC VAR	Aucuba japonica "Variegata"	C.G. 10L	C	
6No.	BER PUR	Bergenia cordifolia "Purpurea"	C.G. 3L	-	
6No.	CHO AZT	Choisya ternata "Aztec Pearl"	C.G. 15L	C	
13No.	CHO SUN	Choisya ternata "Sundance"	C.G. 15L	C	
12No.	COR FIR	Cornus "Midwinter Fire"	C.G. 10L	D	
8No.	CYT ALL	Cytisus x praecox "All Gold"	C.G. 10L	B	
5No.	EUO AUR	Euonymus japonica "Aureopictus"	C.G. 10L	C	
5No.	EUO EME	Euonymus fortunei "Emerald Gaiety"	C.G. 3L	A	
5No.	GAR ELL	Garrya elliptica (male)	C.G. 10L	-	
24No.	GEU MRS	Geum "Mrs Bradshaw"	C.G. 3L	-	
3No.	HEM STE	Hemerocallis Stella d'Oro	C.G. 3L	-	
15No.	HEL NIG	Helleborus niger	C.G. 2L	-	
12No.	IRI SIB	Iris sibirica	bulb		
2No.	JUN SKY	Juniperus scopulorum "Skyrocket"	C.G. 15L/R.B.	F	2.5
11No.	KNI CAU	Kniphofia caulescens	C.G. 5L	-	
1No.	LAV BAR	Lavatera "Barnsley"	C.G. 5L	D	
1No.	MAG STE	Magnolia stellata	C.G. 20L	E	2.25
8No.	NEP SIX	Nepeta "Six Giant Hill"	C.G. 3L	-	
8No.	Pen Pur	Penstemon "Purple Bedder"	C.G. 3L	-	
17No.	PHO PUR	Phormium tenax "Purpureum"	C.G. 15L	-	
1No.	PHO TEN	Phormium tenax	C.G. 15L	-	
86No.	PHO JES	Phormium tenax "Jester"	C.G. 15L	-	
6No.	PRI ELA	Primula elatior	C.G. 2L	-	
3No.	SYR CHA	Syringa vulgaris "Charles Joy"	C.G. 10L	M	4
1No.	ROS MIS	Rosmarinus officinalis "Miss Jessops Var	C.G. 7L	B	
2No.	TAX FAS	Taxus baccata "Fastigiata" min.1.5m high	C.G. 15L/R.B	D	2.25
50No.	THU SMA	Thuja occidentalis "Smaragd" min.1.5m high	C.G. 15L/R.B	D	1
18No.	VER BON	Verbena bonariensis	C.G. 3L	-	
1No.	VIB CAR	Viburnum x carlcephalum	C.G. 10L	D	2.5

SPECIMENS PLANTED IN LARGER STOCK SIZES

QTY	CODE	PLANT NAME	STOCK	SHC	DFB
1No.	AUC VAR*	Aucuba japonica "Variegata"	C.G. 25L	C	
6No.	CAL KAR*	Calamagrostis acutiflora "Karl Foerster"	C.G. 10L		
1No.	CIS CRE*	Cistus creticus	C.G. 15L	B	
3No.	COR SIB*	Cornus alba "Sibirica"	C.G. 15L	D	
3No.	MIS SIN*	Miscanthus sinensis	C.G. 20L	B	
18No.	PHO JES*	Phormium tenax "Jester"	C.G. 25L	-	
11No.	PIN MOP*	Pinus mugo "Mops"	C.G. 25L	-	
23No.	THU SMA*	Thuja occidentalis "Smaragd" min.1.7m	high C.G. 25L/R.B.	D	1
3No.	YUC GLO*	Yucca gloriosa	C.G. 25L	-	

TOPIARY SPECIMEN SHRUBS/TREES PLANTED IN BEDS, GRASS OR GRAVEL

QTY	CODE	PLANT NAME	STOCK	SHC	DFB
6No.	TOP BAY ball	Topiary Bay (Laurus nobilis) ball on stem	C.G. min.120cm	F	
2No.	TOP BOX spiral	Topiary Box (Buxus sempervirens)spiral shape	C.G. min.110cm	C	
6No.	TOP BOX cone	Topiary Box (Buxus sempervirens)cone shape	C.G. min.110cm	C	
3No.	TOP LON ball	Topiary Lonicera (Lonicera nitida) ball	C.G. min.80cm diameter	C	
3No.	PHO RED	on stem Photinia 'Red Robin' ball on stem shape	C.G. min.120cm	C	

BULB PLANTING MIXES

QTY	%	PLANT NAME	STOCK	SPACING
43m2		Bulb planting mix A		
86No.	10%	Crocus "Dutch Yellow"	bulb	20/m2
172No.	20%	Galanthus nivalis	bulb	20/m2
172No.	20%	Narcissus "Panache"	bulb	20/m2
172No.	20%	Hyacinthoides non-scripta	bulb	20/m2
86No.	10%	Leucojum vernum	bulb	20/m2
86No.	10%	Convallaria majalis	bulb	20/m2
43No.	5%	Fritillaria meleagris	bulb	20/m2
43No.	5%	Anemone nemorosa	bulb	20/m2

CLIMBERS

QTY	CODE	PLANT NAME	STOCK	SPACING	DFB
8No.	Hed can	Hedera canariensis "Gloire de Marengo"	"S"C.G. 3L	1/m	3
15No.	Hed col	Hedera colchica "Dentata Variegata"	"S"C.G. 3L	1/m	3
3No.	Hyd pet	Hydrangea petiolaris	"S"C.G. 3L	1/m	3
3No.	Jas nud	Jasminum nudiflorum	"T"C.G. 3L	1/m	3
2No.	Lon Hen	Lonicera henryi	"T"C.G. 3L	1/m	3
3No.	Lon per	Lonicera periclymenum	"T"C.G. 3L	1/m	3
11No.	Par tri	Parthenocissus tricuspidata "Veitchii"	"S"C.G. 3L	1/m	3
2No.	Ros Glo	Rosa "Gloire de Dijon"	"T"C.G. 3L	1/m	3

STANDARD TREES

QTY	CODE	PLANT NAME	STOCK	SIZE	DFB	MAX HT	WD
1No.	ACE ELS	Acer campestre "Elsrijk"	O.G. STD	10-12cm	9m	15m	L
1No.	ACE STR	Acer campestre"Streetwise"	O.G. STD	10-12cm	6m	8m	M
1No.	ALN GLU	Alnus glutinosa	O.G. STD	10-12cm	14m	18m	M
9No.	BET JAC	Betula utilis "Jacquemontii"	O.G. STD	10-12cm	6m	18m	M
11No.	BET PEN	Betula pendula	C.G. 25L STD	10-12cm	7m	14m	L
3No.	BET NIG	Betula nigra	C.G. 25L STD	10-12cm	7m	14m	L
9No.	LIG SUP	Ligustrum superbum	O.G. STD	10-12cm	4m	6m	M
2No.	MAL JOH	Malus "John Downie"	O.G. STD	10-12cm	5m	6m	M
1No.	MAL FLO	Malus floribunda	O.G. STD	10-12cm	5m	8m	M
3No.	PHO RED	Photinia x fraseri "Red Robin"	O.G. STD	10-12cm	4m	6m	M
7No.	PRU AMA	Prunus "Amanogawa"	O.G. STD	10-12cm	4m	5m	M
4No.	PRU TRA	Prunus cerasifera "Trailblazer"	O.G. STD	10-12cm	5m	6m	M
5No.	PRU SPI	Prunus "Spire"	O.G. STD	10-12cm	5m	5m	M
7No.	PRU UMI	Prunus "Umineko"	O.G. STD	10-12cm	5m	8m	M
3No.	PYR CHA	Pyrus calleryana "Chanticleer"	O.G. STD	10-12cm	6m	8m	M
2No.	TIL GRE	Tilia cordata "Green Spire"	O.G. STD	10-12cm	13m	19m	M

HEAVY STANDARD TREES

QTY	CODE	PLANT NAME	STOCK	SIZE	DFB	MAX HT	WD
21No.	ACE ELS+	Acer campestre "Elsrijk"	R.B. HVYSTD	12-14cm	9m	15m	L
1No.	ACE STR+	Acer campestre"Streetwise"	R.B. HVYSTD	12-14cm	6m	8m	M
1No.	BET PEN+	Betula pendula	R.B. HVYSTD	12-14cm	7m	14m	L
2No.	BET NIG+	Betula nigra	R.B. HVYSTD	12-14cm	7m	14m	L
2No.	BET NIG+	Betula nigra	R.B. HVYSTD	12-14cm	7m	14m	L
1No.	CAR FRA+	Carpinus betulus "Frans Fontaine"	R.B. HVYSTD	12-14cm	9m	16m	L
1No.	PRU NIG+	Prunus cerasifera "Nigra"	R.B. HVYSTD	12-14cm	6m	8m	M
2No.	PRU UMI+	Prunus "Umineko"	R.B. HVYSTD	12-14cm	5m	8m	M
6No.	PYR CHA+	Pyrus calleryana "Chanticleer"	R.B. HVYSTD	12-14cm	6m	8m	M

EXTRA HEAVY STANDARD TREES (AND SEMI MATURE IF APPLICABLE)

QTY	CODE	PLANT NAME	STOCK	SIZE	DFB	MAX HT	WD
2No.	PRU UMB*	Prunus "Umbraculifera"	R.B. XHVYSTD	14-16cm	4m	5m	M
1No.	PRU UMI*	Prunus "Umineko"	R.B. XHVYSTD	14-16cm	5m	8m	M
1No.	TIL GRE*	Tilia cordata "Greenspire"	R.B. XHVYSTD	14-16cm	12m	15m	M

MULTI STEM TREES

QTY	CODE	PLANT NAME	STOCK	SIZE	DFB	MAX HT	WD
21No.	BET JAC<	Betula utilis "Jacquemontii" Multi-Stem	O.G. 1.8m - 2m Height		6m	18m	M

ORNAMENTAL HEDGE PLANTING

QTY	CODE	PLANT NAME	STOCK	SPACING	SHC	DFB
579m		Hedge type 01 Single row				
1710No.	Vib tin	Viburnum tinus "Eve Price"	C.G. 3L	3/m	D	2.25
61m		Hedge type 02 Single row				
183No.	VIB tin	Viburnum tinus "Eve Price"	C.G. 15L	3/m	D	2.25
(min.height 800mm, tops trimmed to approx 700mm height after planting to achieve instant hedge appearance)						
63m		Hedge type 03 Single row				
189No.	Pru lus	Prunus lusitanica	R.B. 125-150cm	3/m	D	4
tops trimmed to approx. 110cm height after planting to achieve instant hedge appearance						
21m		Hedge type 09 Single row				
63No.	Bux sem	Buxus sempervirens	C.G. 10L	3/m	C	
min.height 700mm, tops trimmed to approx 500mm height after planting to achieve instant hedge appearance						
104m		Hedge type 14 Single row				
312No.	Lon May	Lonicera 'Maygreen'	C.G. 3L	3/m	B	

PLANT MIXES

QTY	%	PLANT NAME	STOCK	SPACING	SIZE	DFB	MAX HT
49m2		GROUND COVER MIX A (individual species to be planted in groups of approx 20)					
37No.	25%	Hebe rakaiensis	C.G. 3L	3/m2			
37No.	25%	Euonymus "Emerald & Gold"	C.G. 3L	3/m2			
37No.	25%	Lonicera pileata	C.G. 3L	3/m2			
37No.	25%	Spiraea japonica'Goldflame'	C.G. 3L	3/m2			
34m2		GROUND COVER MIX C (individual species to be planted in groups of approx 20)					
60No.	35%	Geranium x oxonianum "Wargrave Pink"	C.G. 3L	5/m2			
60No.	35%	Euonymus "Emerald's Gaiety"	C.G. 3L	5/m2			
51No.	30%	Vinca major	C.G. 2L	5/m2			
3m2		GROUND COVER MIX D (individual species to be planted in groups of approx 20)					
15No.	100%	Ajuga reptans "Catlin's Giant"	C.G. 3L	5/m2			

SEED MIXES

AREA SEED MIX NAME
725m2 Amenity grass mix ("EL1" Mix by Emorsgate, refer to Measured Works Schedule)
12m2 Wildflower meadow mix ("EM3" Mix by Emorsgate Seeds, refer to Measured Works schedule)
4618m2 Area to be turfed ("Medallion" by Rowlawn Ltd, refer to Measured Works Schedule)

100m2 Bitmac surfacing

NOTES AND ABBREVIATIONS:

R.B. = Root-balled stock
C.G. = Container grown stock
O.G. = Open ground stock, to be planted Nov 1st - March 1st
STD = Standard tree
HVYSTD = Heavy Standard tree
XHVYSTD = Extra Heavy standard tree
BLE = Broad Leaf Evergreen
L = Litre container
DFB = "Distance from Buildings" based on minimum building foundation depths
Max Ht = "Maximum Height" of tree
WD = "Water Demand" of tree
SHC = Shrub Height Classification
A = < 600mm mature height
B = 600mm - 1.8m mature height
C = > 1.8m mature height with low water demand and slow growth
D = 1.8m - 3m mature height
E = 3m - 5m mature height
F = >5m mature height
Note: Plants not classified within the JBA SHC are NOT designated as shrubs, JBA understand shrubs to be defined as those plants of perennial habit with woody stems.

-Girth size is given for standard trees, otherwise all sizes refer to height. All sizes are the minimums acceptable.
-Shrubs specified as 3 litre size shall be 400-600mm minimum height and spread and 2 litre stock shall be 300-400mm minimum height and spread. These heights and spreads in relation to pot size are just a guide and the "National Plant Specification" sizes will be accepted (but will be seen as the absolute minimum acceptable). Any shrub supplied which are smaller than this will be rejected at once.
-Cornus varieties shall be twice transplanted and pruned to form bushy rounded plants. Leggy plants with few branches will be rejected, as will leggy plants which have been pruned hard.
-Plants shall be completely hardened off, any plants which show signs of scorching after planting will be rejected.

REFER TO THE ACCOMPANYING MEASURED WORKS SCHEDULE DOCUMENT FOR MORE INFORMATION
CHANGES TO SUPPLIERS/MANUFACTURERS ARE TO BE EQUAL AND APPROVED.
SUBSTITUTIONS TO SHRUB/TREE VARIETIES ARE TO BE AGREED WITH LANDSCAPE ARCHITECT.
DO NOT SCALE FROM THIS DRAWING
ALL DIMENSIONS TO BE CHECKED ON SITE

(C) JAMES BLAKE ASSOCIATES 2016

KEY

- PROPOSED STANDARD TREE, INCLUDING DOUBLE STAKE AND TIE. SEE SPECIFICATION NOTES A1, B2-3, B5, C1-4, D1-2 AND E1.
- PROPOSED HEAVY STANDARD TREE, INCLUDING DOUBLE STAKE AND TIE. SEE SPECIFICATION NOTES A1, B2-3, B5, C1-4, D1-2 AND E1.
- PROPOSED EXTRA HEAVY STANDARD TREE, INCLUDING UNDERGROUND GUYING SYSTEM. SEE SPECIFICATION NOTES A1, B2-3, B5, C1-4, D1-2 AND E1.
- PROPOSED EXTRA HEAVY STANDARD TREE IN PAVING WITH PERMEABLE RESIN BOUND TREE GRILL AND UNDERGROUND GUYING SYSTEM. FOR MORE DETAILS REFER TO DRAWING JBA 14 /42-DT3.
- PROPOSED CONIFER OR BROAD LEAF EVERGREEN TREE, INCLUDING STAKE AND TIE. SEE SPECIFICATION NOTES A1, B2-3, B5, C1-6, D1-2 AND E1.
- ROOT BARRIER, REROOT 1000 SUPPLIED BY GREENBLUE URBAN, CONTACT TEL: 01580 830 800 OR SIMILAR APPROVED
- SHRUB AND HERBACEOUS PLANTING, INCLUDING BIODEGRADABLE SHEET AND BARK MULCH (ACCORDING TO SPECIFICATION). SEE SPECIFICATION NOTES A1-2, B1-3, C1-3, D1-2 AND E1.
- 10L/15L SHRUB AND HERBACEOUS PLANTING, INCLUDING COVERTEX AND BARK MULCH (ACCORDING TO SPECIFICATION). SEE SPECIFICATION NOTES A1-2, B1-3, B5, C1-3, D1-2 AND E1.
- GROUNDCOVER PLANTING IN MIXES, INCLUDING BIODEGRADABLE SHEET AND BARK MULCH (ACCORDING TO SPECIFICATION. SEE SPECIFICATION NOTES A1-2, B1-3, C1-3, D1-2 AND E1.
- HEDGE PLANTING, INCLUDING BIODEGRADABLE SHEET AND BARK MULCH (ACCORDING TO SPECIFICATION). REFER TO HEDGE SCHEDULES ON PLAN AND THE SCHEDULE OF QUANTITIES. SEE SPECIFICATION NOTES A1-2, B1-3, B5, C1-3, D1-2 AND E1.
- 10/15L INSTANT HEDGE PLANTING WITH DEFINED MIN.HEIGHT, INCLUDING BIODEGRADABLE SHEET AND BARK MULCH (ACCORDING TO SPECIFICATION). REFER TO HEDGE SCHEDULES ON PLAN AND THE SCHEDULE OF QUANTITIES. SEE SPECIFICATION NOTES A1-2, B1-3, B5, C1-3, D1-2 AND E1.
- HEDGE PLANTING, INCLUDING BIODEGRADABLE SHEET AND BARK MULCH (ACCORDING TO SPECIFICATION) INCLUDING TIMBER BOARD EDGING TO SEPARATE FROM GRAVEL AREA. REFER TO HEDGE SCHEDULES ON PLAN AND THE SCHEDULE OF QUANTITIES. SEE SPECIFICATION NOTES A1-2, B1-3, B5, C1-3, D1-2 AND E1.
- WASHED, ROUNDED, BUFF COLOURED GRAVEL, 20mm GAUGE, 40mm DEPTH, FINISHED LEVEL 15mm BELOW ADJACENT SURFACES, LAID OVER 'COVERTEX' OVER LIGHTLY CONSOLIDATED SUBGRADE.
- CULTIVATED TURF UNLESS OTHERWISE STATED ON PLAN. SEE SPECIFICATION NOTES B4, C5 AND E1.
- WILDFLOWER SEEDED AREA. REFER TO PLANT SCHEDULE FOR SPECIFICATION OF MIX.
- BULB PLANTING IN MIXES, SPRING FLOWERING VARIETIES, REFER TO SCHEDULE FOR FURTHER INFORMATION.
- CLIMBING SHRUB IN SHRUB BEDS, GRASS/ GRAVEL OR IN PITS IN PAVING. (SEE PLAN). TWINING VARIETIES (MARKED'T') SEE NOTE C7. SELF CLIMBING VARIETIES (MARKED'S') SEE NOTE C6. SEE SPECIFICATION NOTES C1-3, C8, D1-2 AND E1.
- SPECIMEN SHRUBS IN SHRUB BEDS OR PIT PLANTED IN GRASS/GRAVEL AREAS. SPECIMEN SHRUBS IN GRASS ARE MEASURED SEPARATELY IN SCHEDULE OF QUANTITIES. SEE SPECIFICATION NOTES A1, B1-3, C1-3, D1-2 AND E1.
- TURF REINFORCEMENT TO BE GRASSCRETE AVAILABLE FROM GRASS CONCRETE LTD. TEL: 01924 379443 OR SIMILAR AND APPROVED.
- BAT BOXES – SCHWELGLER 2F. REFER TO MANUFACTURERS SPECIFICATIONS
- B1 BIRD BOXES.SCHWEGLER 1B. REFER TO MANUFACTURERS SPECIFICATIONS.
- B2 BIRD BOXES. REFER TO MANUFACTURERS SPECIFICATIONS.

NOTE
SEE SEPARATE EXTERNAL LAYOUT DRAWINGS (BY DEVELOPER) FOR SPECIFICATIONS AND ARRANGEMENT OF FENCING AND OTHER HARD WORKS

FOR LAP DETAILS REFER TO DRAWING JBA 14/ 52-04 & 05

LANDSCAPE PROGRAMMING
DUE TO NATIONAL PLANT SHORTAGE: PLANTS MAY TAKE UP TO 4 WEEKS TO BE DELIVERED. EARLY LEAD-IN FOR SOFT LANDSCAPE IS ESSENTIAL.

INSET DETAIL 1: SHRUB BED WITH COURSE WOOD CHIP MULCH OVER SUITABLE BIODEGRADABLE SHEET MULCH.
NOT TO SCALE

GRASS AREA — 15 — 50 — 400 — 50 — CROSS FALL 1:60 — EDGING BY DEVELOPER

ENSURE BASE AND SIDES OF SHRUB BEDS ARE WELL BROKEN UP AND FREE-DRAINING.

INSET:- LAYING SHEET MULCH FOR PLANTED AREAS (2. BURY, 3. FOLD OVER, 4. PEG, 1. TRENCH, PATH OR GRASS ADJACENT TO BED)

GENERAL NOTES:
- ALL DIMENSIONS IN MILLEMETRES.
- DO NOT SCALE OFF THIS DRAWING.

(C) JBA CONSULTANCY SERVICES LTD 2014

NOTES
1. Existing topsoil to be rotovated to a depth of 400mm ensuring that the ground is completely broken up and is free draining. Complete ground preparation as specified within the measured works schedule, ensuring finished soil levels are 65mm below adjacent pavement or grass surfaces. If soil is dry, water liberally, prior to laying sheet mulch.
2. Suitable biodegradable sheet mulch to be unrolled and placed in overlapping rows (overlap to be a minimum of 50mm). To be laid by burying 200mm flap of material at the extreme edges of the shrub area; and folding over itself (refer to inset on sheet mulch specification). Tuck in sheet on the opposite side of the proposed shrub area and fasten close to tucked in part with plastic pegs.
3. Suitable pegs hammered in at 500mm centres to secure sheeting. Increase frequency to 300mm centres at edges to secure sheet mulch at margins.
4. Supply and pit plant shrubs through sheeting. Refer to pit planting through sheet mulch specification.
5. "Coarse graded free-of-fines large wood chip mulch" to be darkened from aging (3-6 months minimum) available from Edwards of Brandon. Tel: (01842) 813555. Mulch to cover all of biodegradable fabric to a min depth of 50mm once all plants are planted. Ensure finished levels are 15mm below adjacent turf or hard surfaces.

N.B. (A) Do not use biodegradable sheet mulch on slopes greater than 1:3 without the use of gravel boards at 1 - 1.5m centres along the contours to retain the bark cover.
(B) For gravel/shingle areas utilise a non-biodegradable polypropylene woven fabric such as "Covertex" from Hy-tex UK Ltd. tel: (01233) 720097. Cover the fabric all over with 40mm of clean, washed, cream / buff coloured gravel, 20mm gauge, unless otherwise stated in the key.

PIT PLANTING THROUGH SHEET MULCH SPECIFICATION
A) Place plants on sheet in intended positions
B) Cut "+" shape in to the fabric with scissors or sharp knife for each plant position. Each cut to be approximately 300mm - 500mm depending on the size of the shrub.
C) Hold back the fabric using stones etc and excavate pits of appropriate size, for example:- -350mm depth and 300mm radius of stem, for plants specified in 10L containers. -300mm depth and 250mm radius of stem, for plants specified in 3L or smaller containers.
D) Ensure pit sides / base are well broken up.
E) Pit plant so the nursery mark is flush with the ground.
F) Backfill with imported or existing topsoil mixed with Vitax "Q4 HN" fertiliser to suppliers instructions and 25L non peat compost per m2.
G) Firm in and replace flaps of fabric tightly around base of plant stem, ensure there is no soil what so ever over the sheet mulch. Peg as necessary.
H) Water plants with 20L/plant for 10L stock and 10L/plant for 3L or smaller stock using a fine spray hose.
I) Spread "coarse graded free-of-fines large wood chip mulch" 50mm deep. Finished surface levels to be 15mm below adjacent turf or paving.

REV.	DATE	INITIALS	DETAILS
I	26.02.16	WD	AMENDED TO CLIENT COMMENT RECEIVED 26.02.2016 (LANDSCAPING TO PLOTS 216-219 and 220-225)
H	15.01.16	WD	AMENDED TO SOFT LANDSCAPING FOLLOWING CLIENT COMMENTS RECEIVED 23.01.16
G	14.12.15	PC	AMENDED TO ECOLOGISTS RECOMMENDATIONS, AS LETTER DATED 8.12.2015
F	05.10.15	WD	AMENDED TO LAPS FOLLOWING LPA COMMENTS RECEIVED 23.09.15
E	24.07.15	WD	AMENDED PARKING COURT NUMBERS TO CLIENT REQUEST RECEIVED 23.07.15
D	20.06.15	WD	AMENDED TO LPA (TREE OFFICER) COMMENTS RECEIVED 20.06.2015
C	23.06.15	WD	AMENDED TO LPA COMMENTS RECEIVED 15.06.2015
B	30.03.15	DMB	AMENDED TO CLIENT COMMENTS DATED 27.03.2015 (PLANT STOCK AMENDMENTS)
A	18.03.15	DMB	HEDGE ADDED TO THE LEAP BOUNDARY

CLIENT: LINDEN HOMES
DWG. TITLE: DETAILED SOFT LANDSCAPE PROPOSALS FOR PLOTS AND POS
SITE: KINGSMERE, BICESTER
PURPOSE OF ISSUE: PLANNING

DRG BY	CHECKED	AUTH'D	SCALE	DATE	DWG NO.	REV.
DMB/EM	JBA	JBA	1:250@A0	MAR15	JBA 15/42 03	I

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