



SOFT LANDSCAPE SPECIFICATION & PLANTING SCHEDULE

PHASE 2, BEREWOOD, WATERLOOVILLE

May 2014

JSL2328_550

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APPENDIX A – TREE & SHRUB SCHEDULE

1 LANDSCAPE SUB-CONTRACTOR

- 1.1 The works described in this specification shall be carried out by a suitable Landscape Contractor employed as a domestic sub-contractor by the Main Contractor.
- 1.2 The proposed Landscape Contractor shall (unless otherwise agreed) be agreed with the client / Landscape Architect.
- 1.3 The works described in this specification shall be carried out under supervision by suitably qualified Member of the Landscape Institute or other approved supervisor.

2 SCOPE OF WORKS

2.1 The Main Contractor, as part of the preliminary and base external site works, will:

- Carry out the initial site clearance
- Clear existing vegetation to be removed
- Erect protective fencing for existing vegetation to be retained
- Strip soil, store soil and/or remove soil from site
- Remove surplus subsoil from site
- Prepare sub-grade, and excavate to depths stated

Additional elements:

- *Provide and install below ground root barrier systems*
- *All street furniture and fencing*

2.2 The Soft Landscape Contractor will carry out the following works as listed within the Soft Landscape Specification:

- Supply and deliver specified plants, as listed in the Plant Schedule JSL2328_550.
- Prepare and grade subsoil to planting beds and tree pits.
- Import / spread and cultivate topsoil including required soil analysis and any amelioration.
- Provide drainage medium to tree pits.
- Carry out all planting works including associated works.
- Carry out all grass seeding or turf laying works.
- Provide maintenance up to Practical Completion.
- Provide 12 months maintenance and defects period post Practical Completion for shrubs and trees.

2.3 Protect against the following:

2.3.1 Existing Topsoil / Subsoil

Protect existing topsoil and subsoil from over-compaction in those areas which may be damaged by construction traffic, parking of vehicles, temporary site accommodation or storage of materials and which will require reinstatement prior to completion of the Works. Agree extent of reinstatement with the CA and bear any costs arising.

2.3.2 Retained Trees/Hedges/Shrubs/Grassed Areas

- Adequately protect and preserve, except those which are to be removed.
- Replace to approval or treat as instructed any species or areas damaged or removed without approval.

- Trees and shrubs which, due to the Contractor's negligence, are uprooted, destroyed, or in the opinion of the CA, damaged beyond reasonable chance of survival in their original shape, must be replaced with those of a similar type and age at the Contractor's expense.

2.3.3 Trees to be Retained

Unless agreed otherwise by the CA, **do not**:

- Remove or cut existing trees or vegetation without specific instructions.
- Dump spoil or rubbish, excavate or disturb topsoil, park vehicles or plant, store materials or place temporary accommodation within the branch spread.
- Sever roots exceeding 50 mm in diameter or branches from growing trees, without express prior permission.
- Change level of ground within an area 3m beyond the branch spread.

2.3.4 Protection of Existing Trees

- The contractor shall maintain existing protective fencing or where necessary erect a temporary protective barrier in accordance with Figure 2 of BS 5837:2012. The barrier shall consist of a 2.3m high vertical and horizontal scaffold framework, well braced to resist impacts with vertical tubes driven into the ground at a maximum interval of 3m. Secure weldmesh panels onto framework and apply sign stating 'NO ENTRY: TREE PROTECTION FENCE'. The contractor shall take all necessary precautions to protect in the course of his work all existing trees or vegetation from malicious or accidental damage.
- The temporary fence will be retained intact for the whole duration of the works unless otherwise instructed by the Contract Administrator. On issue of the practical completion certificate the protective fencing shall be removed and the ground made good and post holes filled with soil and lightly compacted.

3 SUBSOIL AND TOPSOIL

3.1 All excavations, cultivations and grading required beneath the canopy of retained trees or within 3m of a hedge line shall be carried out by hand using hand tools taking extreme care not to damage or disturb any tree roots.

3.2 Subsoil

3.2.1 Subsoil grading of the site shall leave landscape areas with smooth flowing contours to achieve the specified finished levels when topsoiled.

- Prior to placing topsoil subsoil formation should be loosened and/or ripped to a depth of 300mm. Check for presence of underground services prior to commencing any ripping. The contractor shall satisfy himself as to the presence of any services prior to any ripping or cultivation operations – if in doubt advise CA and seek further instruction.
- Any areas compacted during construction works shall be ripped and de-compacted to ensure surface water drainage.
- Any areas found to be wet or waterlogged shall be alleviated by positive land and/or tree pit drainage as necessary to ensure all tree and shrub planting areas are free draining.

3.3 Topsoil

3.3.1 Topsoil Analysis For: Existing topsoil to be re-used on site.

- Collect a sample in accordance with BS 3882, Annex A from locations throughout the site.
- Provide the following:
 - pH level
 - Organic matter
 - Confirmation of soil grade as defined by BS 3882
 - Recommendations for making good any deficiencies and fertiliser treatment
 - Confirmation as to whether the soil is suitable for general amenity planting and lawn establishment
- A report detailing the soil analyst's recommendations
- Carry out any recommendations from the soil analyst for soil amelioration and/or soil handling to the approval of the CA.

3.3.2 Imported Topsoil

It is anticipated that the landscape contractor will need to import topsoil to make up deficiencies on site. However if the main contractor so chooses any existing topsoil may be removed from the site and either returned or replaced in accordance with the specification, at no additional cost.

- Provide as necessary to make up any deficiency of existing topsoil available on site to complete the work.
- To BS 3882: grade: General Amenity.
- Free from aggressive weeds, debris or other potentially hazardous foreign matter.

3.3.3 Spreading Topsoil

IN ALL CASES THE CONTRACTOR SHALL ENSURE THAT THE SUBSOIL / FORMATION LAYER IS FREE DRAINING PRIOR TO PLACING TOPSOIL. ADVISE THE CA IF THIS CANNOT BE ACHIEVED AND SEEK INSTRUCTION BEFORE PROCEEDING.

- Remove temporary surfaces before spreading topsoil.
- Spread over prepared subsoil in layers not exceeding 150mm and gently firm each layer before spreading the next.
- Overall minimum depths after firming and settlement to be:

Turfed, seeded and bulb areas	150mm
Rear garden areas	150mm
Groundcover areas	250mm
Amenity shrub, hedge areas and climber pits	350mm
Tree pits as specified	varies (see below)
- Do not compact topsoil. Preserve a friable texture of separate visible crumbs whenever possible.

3.3.4 Finished Levels of Topsoil after settlement, unless otherwise stated, to be:

- 50mm below adjoining paving or kerbs,
- Unchanged within the root spread of existing trees,
- Not less than 150mm below dpc of adjoining buildings,
- Where mulch is specified, topsoil is to be neatly pulled back at edges minimum 75mm deep to allow retention of mulch.
- Married in with adjoining soil areas.

4 PLANTING

4.1 Generally planting should be carried out in accordance with the following British Standards:

- BS 4043: 1989 Recommendation for Transplanting Root Balled Trees
- BS 4428: 1989 Code of Practice for General Landscape Operations

4.1.1 Times of Year for Planting

- Seeding – mid March to the end of April or late August to mid October.
- Bulbs – September - October.
- Root balled/Bare root Deciduous trees and Shrubs – late November to late March.
- Root balled Conifers and evergreens – September - November or March - May.
- Turf, Container grown shrubs and trees (including spring ringed) – At any time if ground and weather conditions are favourable. Ensure that adequate watering, drainage and weed control is provided.
- Waterlogging shall be avoided through proper ground preparation and tree pit excavation.

4.1.2 Watering

- Quantity – where required to field capacity.
- Application – Even and without displacing seeds, seedlings or soil.
- Frequency – As necessary to ensure the establishment and continued thriving of all seeding/turfing and planting.

4.1.3 Setting Out

Clearly mark boundaries of seeding / turfing and planting areas and location of trees and obtain approval before starting work.

4.1.4 Tree Surgery to Existing Trees (if required)

- Where scheduled, or as instructed, existing trees shall have all dead, dangerous or damaged branches removed. Lower branches shall be removed to a clear stem height of 2.0m. Ivy shall be severed at the base and removed to a minimum height of 1.5m.
- All tree surgery shall be carried out by an approved tree surgeon in accordance with BS 3998: 2010.
- Branches to be removed should be cut in accordance with BS 3889:1989, where suitable “target” prune, without exaggerating the size of the wound. This will usually coincide with the limit of branch buttressing. The size of the wound shall be as small as practicable, therefore flush pruning should be avoided; pruning which leaves a small collar at the base of the branch is preferred.
- All pruning works should seek to maintain an even, balanced crown form.

4.2 Preparation Generally

4.2.1 Peat

Do not use peat or products containing peat.

4.2.2 Cultivation

- Compacted topsoil: Break up to full depth.
- Incorporate specified compost and fertiliser.
- Tilth: Within a few days before seeding / turfing or planting cultivate topsoil using a suitable mechanical cultivator until a fine tilth is achieved to a depth of:
 - 350mm – Shrub planting areas
 - 150mm – Turf / grass seeded areas
- Remove from site undesirable material brought to the surface including stones and clay balls larger than 50 mm in any dimension, roots, tufts of grass, rubbish and debris and foreign matter.
- Any areas which remain waterlogged after cultivation, shall receive additional remediation or positive drainage to maintain suitable aerobic growing conditions.

5 SEEDING/TURFING

5.1 Grass Areas

5.1.1 Fertiliser for Grass Areas

- Type: Fisons PS5 pre-seeding fertiliser.
- Application: Before final cultivation and three to five days before seeding.
- Coverage: Spread evenly at 70 g/m².

5.1.2 Final Cultivation

- Timing – After grading and fertilising.
- Seed bed - Lightly rake to a true, even surface. Remove surface stones/earth clods exceeding 50 mm.
- Adjacent levels: Extend cultivation into existing adjacent grassed areas sufficient to ensure full marrying in of levels.
- The contractor should allow for all cultivation operations to achieve a good seedbed, including hand raking and hand digging on slopes and banks inaccessible to machinery, and against the backs of kerbs and paths.

5.1.3 Seed / Turf for all areas

Turf Areas

- Supplier: Rolawn Ltd, Tel: 0845 6046050 or similar and approved.
- Type: Medallion
- Rolawn Medallion[®] turf to BS3936. See also Rolawn STRI testing programme. To be obtained from Rolawn Limited, Elvington York YO41 4XR

Amenity Grass Areas

- Supplier: British Seed Houses, Tel: 01522 868714 or similar and approved.
- Type: A19

Wet Meadow Areas

- Supplier: Emorsgate, Tel: 01553 829028 or similar and approved.
- Type: EP1

5.1.4 Laying turf

- Laying turf, preferably along a straight side in a row, butting closely end to end. On subsequent rows, stagger the joints in brickwork fashion. Do not leave gaps between the turf.

5.1.5 Seed Quality

- Freshness: Produced for the current growing season.
- Certification: Blue label certified varieties.
 - Standard: EC purity and germination regulations.
 - Official Seed Testing Station certificate of germination, purity and composition:

5.1.6 Seed sowing

- General: Establish good seed contact with the root zone.
- Method: To suit soil type, proposed usage, location and weather conditions during and after sowing.
- Distribution: Seed shall be evenly distributed at the rates specified and shall be immediately followed by lightly raking the soil surface to cover the seeds, by use of a chain harrow or other suitable plant.

5.1.7 Seedbed germination

- Seeding shall be repeated as necessary until an evenly distributed dense sward is established over the seeded area to the satisfaction of the CA. The Contractor / Supplier shall allow for maintenance of all grass areas (as specified below) until this is achieved.

5.2 Protecting / Cutting

5.2.1 Protective Fencing

- Protect newly turfed/seeded areas with 1.5m high chestnut pale fencing.
- Maintain fencing until grass is well established then remove and reinstate ground.

5.2.2 Watering

During establishment of grass areas ensure that sufficient water is applied using a fine rose sprinkler to maintain healthy growth.

5.2.3 First Cut of Amenity Grassed & Meadow Areas

- Timing: When grass reaches 75 mm high and is reasonably dry.
- Before cutting, remove debris, litter, and stones and earth clods larger than 25 mm in any dimension and roll with a light roller.
- Method: 48 hours later cut with a suitable cylinder box mower, or suitable rotary mower on slopes and banks.

- Height of first cut:
 - Amenity grass and turfed areas - 60 mm.
- Arisings: Remove and dispose of all arisings.

5.3 Maintenance

Between the first cut and Practical Completion the height of growth for amenity grass areas must not exceed the maximum height prior to first cutting. Cut as many times necessary with machinery and to heights as specified for the first cut.

5.3.1 Failures of turf

Bare areas and areas of dead grass which become apparent before the end of the Defects Liability Period will be regarded as defects due to materials or workmanship not in accordance with the Contract.

5.3.2 Maintaining Grassed Areas

5.3.3 Maximum height of growth at any time: 60mm

5.4 Preparation: Before each cut remove all litter and debris.

- Cutting: Cut at two weekly intervals as required through the growing season.
- Arisings: Remove and dispose of all arisings.
- Trimming: At the time of each cut, trim all grass edges, including round the base of trees, manholes, etc and remove arisings.
- Weed control: Keep the sward substantially free of broad-leaved weeds by applying an approved selective herbicide.
- Where excessive annual weed growth threatens to smother new grass areas, cut back growth to a height of 50mm with a scythe or rotary cutter and carefully rake off cuttings. Spot treat coarse perennial weeds with a suitable herbicide such as Glyphosate gel.
- Watering: To be undertaken at the frequency necessary to ensure establishment and survival of the grass sward.
- Weed control: Substantially free of broadleaved weeds.
 - Method: Spot treat any persistent/ aggressive weeds with a Glyphosate based herbicide as approved with the CA.

Stones brought to the surface: Remove regularly.

- Watering: To be undertaken at the frequency necessary to ensure establishment and survival of the meadow grassland sward.

5.4.1 Fertiliser for Turfed & Amenity Grass Areas **ONLY**

- March application: 11:6:9 Spring/summer turf fertiliser at 35-50 g/m² or equivalent.

6 TREES AND SHRUBS

6.1 Supply and Storage

6.1.1 Trees and Plants Generally

- Condition: Materially undamaged, sturdy, healthy and vigorous.
- Appearance: Of good shape and without elongated shoots.
- Hardiness: Grown in a suitable environment and hardened off.
- Health: Free from pests, diseases, discoloration, weeds and physiological disorders.
- Root system and condition: To requirements of the relevant parts of BS 3936 and balanced with branch system.
- Species: True to name.

6.1.2 Plant / Tree Substitution

- Plants/ trees unobtainable or known to be likely to be unobtainable at time of ordering: Submit alternatives stating proposed substitutions.
- Obtain approval before making any substitution.

6.1.3 Plant / Tree Handling, Storage and Transport

To CPSE 'Handling and establishing landscape plants' (obtainable from the Horticultural Trades Association) Part I, Part II and Part III, paragraphs 1.3.3 to 1.3.6, 3.0, and 4.0.

6.1.4 Planting Generally

To CPSE 'Handling and establishing landscape plants' (obtainable from the Horticultural Trades Association) Part III, paragraphs 6.2 to 6.6. Plant upright or well balanced with best side to front.

6.2 Preparation of Planting Beds / Planting Materials

6.2.1 Soil Ameliorant / Conditioner

- Locations: Planting Beds.
- Type: Compost.
- Supplier/ Source: Sinclair Horticulture and Leisure, Tel: Lincoln (01522) 537561. Reference: SHL peat free tree and shrub compost or similar and approved.
 - Coverage: 1m³ of material per 60m².
 - Timing: Apply prior to cultivation.

6.3 Planting Shrubs

6.3.1 Plant Layout

- Spacing: Evenly
- Density: As scheduled.

- Edging row to each species to be set out to clearly define single species areas.
- Ornamental hedgerows to be laid out in planted border 800mm wide, planted in single central row.

6.3.2 Shrub Planting Pits

To BS 3936: Part 1: 1980 (1992)

- Timing: Excavate immediately prior to planting.
- Sizes: 150 mm wider than roots when fully spread and 400 mm deep.
- Additional requirements: Increase dimensions where necessary to ensure that pits are at least 75 mm deeper than root system and wide enough to accommodate roots when fully spread.
- Finished level to be at original soil mark on shrubs

6.3.3 Antidesiccant for Conifers/ Evergreens

- Dip in or thoroughly spray with approved antidesiccant.
- Application: Dip before delivering to site. Spray again soon after planting. Do not apply in wet or frosty weather.
- Ensure full coverage of underside of foliage.

6.3.4 Herbaceous Plants

- Well rooted, healthy, hardy and not less than one year of full growth.
- Evenly space at the rate stated over the allocated area avoiding straight lines.
- Plant carefully in generously sized holes with finely broken soil returned around the roots.
- Lightly firm the soil.

6.3.5 Climbing shrubs

- Provide a cane for early support of climbing shrubs, tie shrub gently to cane using garden twine, lean toward wall / fence
- Fix two eye screws, one to top and other to bottom of fence / wall and strain garden wire between fixings as support / guy for climbing shrubs.

6.3.6 Drainage to Planting Beds

Any areas which are not free draining the Soft Landscape Contractor shall supply and install land drainage to ensure plant areas are not waterlogged. Where necessary after planting lightly fork over the soil to alleviate any surface compaction.

6.3.7 Backfilling Material

Composition: Previously prepared mixture of topsoil and additives excavated from pit and additional topsoil as required.

6.3.8 After Planting

- Watering: Immediately after planting, thoroughly and without damaging or displacing plants or soil.
- Firming: Lightly firm soil around plants and fork and/ or rake soil, without damaging roots, to a fine tilth with gentle cambers and no hollows.
- Immediately after planting shrubs carefully cut back any damaged, dead or diseased branches and remove any weak, thin or malformed growth.
- When directed and to the extent appropriate for the species cut back to encourage growth.

6.3.9 Mulching Planting Beds

- Bark Nuggets (15-65mm) as supplied by Melcourt Industries Tel: 01731 502711 or equal approved.
- Fire resistance to BS 4790 - 1987.
- Sample to be provided and approved by LA before delivery to site.
- Coverage: settled depth of 75mm

6.4 Planting Trees

6.4.1 Antidesiccant for Conifers/ Evergreens

- Dip in or thoroughly spray with approved antidesiccant.
- Application: Dip before delivering to site. Spray again soon after planting. Do not apply in wet or frosty weather.

6.4.2 Tree Pits

Sizes and location as scheduled below:

- i) Semi Mature trees = 2000 x 2000 x 850mm deep
- ii) Extra Heavy Standard trees = 1000 x 1000 x 850mm

6.4.3 Tree Pit Aeration/Irrigation Pipe

- Locations: All trees 8cm girth and above.
- Type: PVC pipe, black, 60mm diameter x 2500mm maximum length with associated end cap.

- Insert during backfill around the rootball; one end shall be placed in the drainage layer and the top end shall be cut off at a height of not more than 25mm above finished ground level and capped.

6.4.4 Tree Pit Drainage

- Aggregate layer: Clean gravel or broken stone, with no fines, graded 40 to 20 mm. Depth: 150mm.

6.4.5 Deciduous and Coniferous Advanced Nursery Stock Trees

Rootballed stock shall be supported by straps, frames or wire mesh baskets and shall be protected against drying out by wrapping firmly with hessian, plastic film or other recommended material. Wrapping shall be firmly tied over the top of the rootball.

Air pot / spring ringed stock shall be suitably protected with hessian to prevent damage and drying out as soon as the air pot has been removed.

6.5 Tree Support

6.5.1 Extra Heavy standard trees: Short double staking with crossbar.

- Staking: Drive stakes vertically at least 300 mm into bottom of pit on either side of tree position before planting. Fix half circle timber cross brace with 2 galvanised nails. Consolidate material around stakes during backfilling.
- Height of stakes: Cut to approximately 800mm above ground level or 1/3 the height of the tree whichever is the lowest.
- Ties: see below

v) Tree ties : Biodegradable webbing

- 100% natural hessian from sustainable sources; 50mm wide x 1.5mm deep such as 'Naturetie' as supplied by Greenleaf Tel: 01424 717 797.
- Webbing to be used to secure the tree to stake as well as form the spacers. Exact tying detail to be agreed with landscape architect; typically - securely fix end of hessian to stake using 2 galvanised nails. Form spacer by repeatedly twisting the hessian; finish by cutting to the hessian to length and secure to the stake with 2 galvanised nails as above.

Semi-Mature Extra Heavy standard trees: Platipus underground guying system:

- See JSL2328_401

6.5.2 Backfilling Material

Ensure that all tree pits are free draining prior to backfilling. Do not back fill pits that are not free draining – notify Landscape Architect and CA of any pits retaining water.

Topsoil shall NOT be used at a depth greater than 500mm unless agreed with the landscape architect.

Backfill prepared tree pit 200mm layer of washed coarse sand (not builders sand) or horticultural grit. Place rootball onto sand and backfill with a further 100mm washed coarse sand to within 500mm of the finished ground level. Backfill remainder of pit with previously prepared mixture of topsoil excavated from pit and additional topsoil as required, together with –

- Ameliorant/ Conditioner: Planting Compost at the following rates:
 - Semi-Mature trees: 50 litres
 - Extra Heavy Standard trees: 40 litres
 - Fertiliser: Fisons Ficote 180 (16:10:10) at a rate of 22 grms/cm girth.
 - Broadleaf P4 water storing granules at manufacturers recommendations (typically 4gms per litre of compost)

6.5.3 Mulching Trees

- Material: Generally as planting beds.
- Trees in grass: Amenity Bark Nuggets as supplied by Melcourt Industries or similar and approved.
 - Fire resistance to BS 4790 - 1987.
 - Purity: Free of pests, disease, fungus and weeds.
 - Preparation: Clear all weeds. Apply pre-emergent herbicide.
 - Coverage: 75mm depth, in a circular area of 500mm radius measured from the tree stem.

7 PROTECTING/ MAINTAINING/ MAKING GOOD DEFECTS

7.1 Maintenance Works

7.1.1 Maintenance

- Duration: Carry out the operations in the following clauses from completion of planting until the end of the defects liability period.
- Frequency of maintenance visits: fortnightly during growing season.

7.1.2 Failures of Planting

- General: Plants / trees / shrubs that have failed to thrive (unless due to theft or malicious damage after completion) during period stated, will be regarded as defects due to materials or workmanship not in accordance with the Contract. Replace with equivalent plants/ trees/ shrubs.
- Replacements: To match size of adjacent or nearby plants of same species or match original specification, whichever is the greater.
- Timing of making good: In the earliest appropriate planting season.
- Landscape contractor shall seek approval of any substitutions with CA / LPA prior to implementation.

7.1.3 Planting Maintenance Generally

- Weed control: Maintain weed free area around each tree and shrub, minimum diameter the larger of 1 m or the surface of original planting pit.
- Keep planting beds clear of weeds, by cultivation, use of approved herbicides and maintaining full thickness of mulch.
- Planted areas: Fork over beds as necessary to keep soil loose, with gentle cambers and no hollows. Take care not to reduce depth or effect of mulch.
- Precautions: Ensure that trees and shrubs are not damaged by use of mowers, nylon filament rotary cutters and similar powered tools.
- Staking: Check condition of stakes, ties, guys and guards. Replace broken or missing items. Adjust if necessary to allow for growth and prevent rubbing of bark. Cut back any damaged bark.
- Frequency of checks: 3 months.
- Trees: Spray crown when in leaf during warm weather. Carry out in the evening.
- Standard Trees: Maintain the clear stem of standard trees by pruning away any new growth which may appear along the trunk or basal areas of the tree.

- 7.1.4 Re-firm Planting
- Re-firm plants that have been disturbed by wind rock or frost, particularly after heavy winds or storms.
- 7.1.5 Pest Control
- Allow for pest control by spaying with a suitable approved pesticide in cases of severe insect and pest infestation. All spraying must be carried out in accordance with manufacturers written recommendations.
 - All damage that occurs, as a result of spraying, shall be made good at the Contractor's own cost.
- 7.1.6 Planting Maintenance – Fertiliser
- Time of year: March or April.
 - Fertiliser to planting beds: Manufacturer: Fisons Ficote. Product reference: 180 16:10:10.
 - Application: Evenly spread, carefully incorporating below mulch materials.
 - Coverage: 112 grms/m².
 - Year 3 slow release fertiliser application to trees and shrubs in March or April.
- 7.1.7 Planting Maintenance – Pruning
- General: Prune at appropriate times, to remove dead or dying and diseased wood and suckers, to promote healthy growth and natural shape.
 - Prune trees to favour a single central leading shoot.
- 7.1.8 Planting Maintenance – Watering
- Ensure that sufficient water is applied to maintain healthy growth. Carry out as and when necessary using a fine rose or sprinkler until full depth of topsoil is saturated. Regularly water plants in shadow of roof overhangs.
 - Spray crown of trees when in leaf during warm weather. Carry out in the evening.
 - Water trees from above ensuring root ball is sufficiently saturated to maintain healthy growth – do not rely on watering pipe alone.
 - Where applicable carry out regular inspections of the 'vertical inspection pipe' to monitor conditions within the pits. Should standing water appear and not dissipate quickly allow for pumping out as necessary to the satisfaction of the landscape architect.
- 7.1.9 Final Mulching
- Timing: At end of the maintenance period stated.
 - Watering: Ensure that soil is thoroughly moistened prior to remulching, applying water where necessary.

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- Planting beds: Re-mulch as specified. Coverage: minimum 65mm depth required at handover.
 - Trees: Re-mulch as specific

APPENDIX A

TREE AND SHRUB PLANT SCHEDULE

JSL2328_551

RPS

Tree and shrub palette

Client: Redrow Homes (Southern Counties)

Status: For Planning

Project: Phase 2, Berewood, Waterloooville

Date: April 2014

Dwg Ref: JSL2328_501, 502 & 503

Revision: .

Doc Ref: JSL2328_551

No.	Abbr	Botanical name	Common name	Girth / size	Stock	Density / %
A. Trees						
51	Ac	Acer campestre 'Streetwise'	Field Maple	16-18cm	RB / SR / C	
22	Bp	Betula pendula	Silver Birch	16-18cm	RB / SR / C	
8	Bu	Betula utilis subsp. Jacquemontii	Himalayan Birch	16-18cm	RB / SR / C	
24	Cb	Carpinus betulus 'Frans Fontaine'	Hornbeam	25-30cm	RB / SR / C	
12	Cr	Crataegus 'Paul Scarlet'	Paul's Hawthorn	14-16cm	RB / SR / C	
21	Pc	Pyrus calleryana 'Chanticleer'	Pear	14-16cm	RB / SR / C	
5	Qr	Quercus robur	Oak	25-30cm	RB / SR / C	
8	Qu	Quercus robur	Oak	14-16cm	RB / SR / C	
9	Sa	Sorbus aria	Whitebeam	14-16cm	RB / SR / C	
B. Amenity Shrub & Herbaceous Planting						
17		Abelia grandiflora	Abelia	40-60cm	C	5m ²
539		Aucuba japonica	Japanese Laurel	40-60cm	C	5m ²
263		Aucuba japonica 'Hillier'	Japanese Laurel	40-60cm	C	5m ²
10		Bergenia 'Bressingham White'	Elephant Ears	15-20cm	C	5m ²
665		Ceanothus 'Blue Mound'	Californian Lilac	40-60cm	C	5m ²
44		Ceratostigma plumbaginoides	blue-flowered leadwort	40-60cm	C	5m ²
1080		Choisya ternata	Mexican Orange Blossom	40-60cm	C	5m ²
327		Cistus purpureus	Purple Flowered rock Rose	30-40cm	C	5m ²
745		Cistus x aquilarii maculatus	Spotted White rock Rose	30-40cm	C	5m ²
99		Cotinus coggygria 'Royal Purple'	Smoke Bush	40-60cm	C	5m ²
444		Cotoneaster x 'Skogholm'	Cotoneaster	40-60cm	C	5m ²
203		Escallonia 'Apple Blossom'	Escallonia	40-60cm	C	5m ²
1109		Escallonia 'Red Elf'	Escallonia	20-30cm	C	5m ²
1278		Hebe 'Oralia Beauty'	Hebe	30-40cm	C	5m ²
1121		Hebe 'Sapphire'	Hebe	30-40cm	C	5m ²
357		Hebe 'Vernicosa'	Hebe	30-40cm	C	5m ²
502		Lavandula angustifolia 'Hidcote'	English Lavender	30-40cm	C	5m ²
389		Lavandula pedunculata	French Lavender	30-40cm	C	5m ²
558		Lavandula 'Vera'	Lavender	30-40cm	C	5m ²
650		Mahonia aquifolium 'Apollo'	Oregon Grape	40-60cm	C	5m ²
191		Mahonia japonica	Japanese Mahonia	40-60cm	C	5m ²
34		Osmanthus burkwoodii	Holly Olive	40-60cm	C	5m ²
696		Osmanthus heterophyllus 'Gulf tide'	Holly Olive	40-60cm	C	5m ²
26		Philadelphus 'Belle Etoile'	Mock Orange	40-60cm	C	5m ²
672		Philadelphus Manteau d'Hermine	Mock Orange	40-60cm	C	5m ²
71		Photinia x fraseri 'Red Robin'	Christmas Berry 'Red Robin'	40-60cm	C	5m ²
51		Potentilla fruticosa 'Abbotswood'	Shrubby cinquefoil	40-60cm	C	5m ²
1262		Prunus laurocerasus 'Otto Luyken'	Cherry Laurel 'Otto Luyken'	40-60cm	C	5m ²
952		Sarcococca confusa	Sweet Box	30-50cm	C	5m ²
1603		Skimmia 'Rebella'		20-40cm	C	5m ²
1241		Skimmia reevesiana	Chilean Choice	40-60cm	C	5m ²
1217		Viburnum davidii		30-40cm	C	5m ²
460		Viburnum opulus 'Compactum'	Compact Guelder Rose	40-50cm	C	5m ²
63		Viburnum tinus 'Eve Price'		40-60cm	C	5m ²
125		Vinca minor 'Atropurpurea'	Periwinkle	10-15cm	C	5m ²
C. Hedge Planting						
4043		Carpinus Betulus	Hornbeam	125-150cm	BR	5/m
633		Escallonia 'Red Hedge'	Escallonia	125-150cm	C	5/m
D. Climbing Shrubs						
21		Clematis 'Armandii'	Clematis	60-80cm	C	
2		Jasminum x stephanense	Jasmine	60-80cm	C	
E. Bulb Planting						
544		Hyacinthoides non-scripta	Bluebell	7/8	BI	50/m ²
217		Lilium martagon	Lilly	12/14	BI	50/m ²
72		Galanthus nivalis	Snow drop	12/14	BI	50/m ²
F. Grass areas						
i. Turfed areas						
Medallion' turf by Rolawn (or similar and approved)					T	
ii. Amenity grass areas						
A19: All purpose seed mix by British Seed Houses (or similar and approved)					S	35g/m ²
iii. Wet meadow areas						
EP1: Pond Edge Mixture by Emorsgate (or similar and approved)					S	5g/m ²

Notes: Species listed above are subject to commercial availability / viability

Any alterations to species, stock sizes or planting densities shall only be with prior consent of the CA / LA

Stock Abbreviations:

C = Container grown

SR = Spring ringed

RB = Root balled

B = Bagged

S = Seeded

T = Turfed

CI = Cell grown

BI = Bulb