

MAPLE PLACE EASTLEIGH

SOFT LANDSCAPE SPECIFICATION

Aspect (Eastleigh) Ltd



Ecology
Archaeology
Arboriculture
Landscape Architecture

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Revision	Date	Details	Revised

1.0 Site Preparation and Earthworks

1.1 Programme of Operation: The exterior planting shall be installed over the minimum period to complete the whole of the works. Dates are subject to discussion and agreement with suitable environmental conditions prevailing. The Contractor must verify this programme of works before commencing on site.

1.2 Protect Work: The Contractor shall provide adequate temporary protection to the work during the installation and shall include temporary coverings, and all other measures for protecting the work from damage.

Any work damaged or soiled by traffic or other causes due to inadequate temporary protection shall be removed and made good at the cost of the Contractor. If other work is damaged by the Contractor, he will be held responsible for the cost of rectification.

1.3 Rubbish: All rubbish is to be immediately cleared and removed as it accumulates during the work. At completion, the site is to be left clean and tidy.

1.4 Water must not be allowed to accumulate in any part of the works and the Contractor is to allow for providing for all necessary pumping or bailing that may be required to keep any excavations or any part of the site free from water at all times.

- 1.5 Existing Vegetation: No existing trees, shrubs, or other plants shall be removed or cut without specific instructions from the Arboriculturalist or Landscape Architect. Existing trees are to be retained, protected, and undisturbed throughout the contract following BS5837:2012 Trees in relation to design, demolition, and construction- Recommendations (Section 6). No branches are to be cut or damaged and no roots larger than 25mm in diameter are to be cut or damaged following the British Standard. No fires are to be lit under or anywhere near the trees. No debris, fuel, or building material of any sort is to be stacked against or piled around the trunks.
- 1.6 Weed Control: All weeds shall be cut down and taken off-site to a tip found by the contractor. One contact, approved, herbicide spray shall be applied to all areas of the site to eliminate any remaining green weed vegetation.
- 1.7 Loose Debris: All loose debris, rubbish, and foreign matter of any kind shall be cleared from the site and taken to a tip found by the Contractor.
- 1.8 Topsoil storage is to be in line with BS3882:2015 Specification for topsoil and be narrow and not more than 1m in height. The topsoil storage is to be protected by not placing any other material on top of the storage heap, not allowing the construction plant to pass over the storage heaps, and preventing compaction and contamination. Application of a suitable herbicide, at appropriate times, is to be undertaken to prevent the seeding of weeds.

- 1.9 Filling: Carry out all necessary filling to form new soil formation levels which will give finished levels as shown on drawings. Including loading and depositing sub-soil on-site, and importing fill material. All material in making up levels shall be to the approval of the Landscape Architect and shall be spread and consolidated in layers of 150mm.
- 1.10 All imported fill material shall be free from metal, vegetable matter, and any toxic wastes or pollutants. Rock and/or masonry of limited size will be permissible provided that the dimension does not exceed 50mm. A sample load shall be stored intact for comparison with further loads which shall be of similar standard.
- 1.11 Grading: Allow for grading and cross-grading over the site to achieve final grades following the grading and contour drawings. All finished gradients are to be smooth flowing, marrying in with all existing levels (back of pavement, etc.) eliminating all abrupt angles and changes of levels. All shaping works are to be carried out in consultation with the Landscape Architect on site. Minor fillings and excavations are to be made as necessary.
- 1.12 Measurements: Attention is drawn to the fact that all measurements of the above area are net measurements and the contractor shall allow in his prices for increases in bulk and for transporting material to and from the temporary store as may be necessary.
- 1.13 Sub-Soil Preparation: All stone, brick, concrete, wood, wire, pipes debris, rubbish, weed roots, and foreign matter of any kind above a maximum dimension of 75mm shall be removed from the sub-soil formation layer to a minimum depth of 600mm below the topsoil and broken up immediately before sub-soil application.

The sub-soil shall be evenly graded to the appropriate formation levels below the finished levels of the topsoil to the appropriate depth, as outlined in section 2.0

- 1.14 Removal of surplus excavated material: Remove all surplus excavated material from the site.
- 1.15 Re-Use of Topsoil: The re-use of existing topsoil shall only be permitted with the strict approval of the Landscape Architect. Any surplus topsoil is to be removed from the site.

Relieving Compaction

1.16 Generally, all works should be undertaken in line with the following principles:

- The moisture content of the soil is at least 5% below its plastic limit.

- Identified root protection areas are to be avoided.

Mechanical method recommendations:

- The ripping pattern must be overlapping passes.
- The tines should be sufficiently closely spaced to ensure full lateral de-compaction, which also needs overlapping passes.
- The use of winged tines is recommended.
- Tine length and width must be compatible with the proposed depth of de-compaction.
- Tine and wings must have wear plates and be in a good condition; and
- The towing unit must be capable of working efficiently without undue weaving and track slippage.

1.17 To relieve compaction in turf (beyond identified root protection areas), works are to be undertaken in line with BS7370-2:1994 Ground maintenance- Recommendations, using spiking or vertical lifting and applying a top dressing of medium-fine sand to a depth of 2-3mm.

1.18 To relieve compaction in all other areas (beyond identified root protection areas), works are to be either deep-jetting (high-pressure soil injection), aeration and mycorrhizal inoculation, complete soil replacement, mechanical ripping, or manual ripping. The contractor is to submit proposals to the Contract Administrator before undertaking work.

2.0 Topsoiling and Cultivation

2.1. Imported Top-Soil: Imported topsoil is to be a 'multipurpose topsoil' following BS3882:2015 Specification for topsoil unless there is a requirement for a 'specific purpose topsoil' which will also be following the British Standard.

2.2. As well as following BS3882:2015 Specification for topsoil, the multi-purpose topsoil should be a quality loam and have the following properties:

pH value	5.5-8.0
Nitrogen (N)	0.15% min
Phosphorous (P)	16- 100 mg/l
Potash (K)	121- 900 mg/l
Magnesium (Mg)	51- 600 mg/l
Clay	5% min- 35% max
Silt	0% min- 65% max
Sand	30% min- 85% max
Organic matter	3% min- 20% max

2.3. The topsoil shall be free from stone, rubbish of any kind, roots of perennial weed, or any other injurious matter.

2.4. The topsoil must be supplied with a BS3882:2015 Specification for topsoil, declaration of analysis, analysis certificate, and sampling protocol.

2.5. At the outset of the works, a sample 5m³ load must be deposited on site for approval and comparison and all subsequent loads shall be at least equal in quality to the sample, which shall remain until top-soil spreading is completed.

- 2.6. In line with BS3882:2015 Specification for topsoil, the depth of topsoil spread shall not normally exceed 300 mm. Suitable (loosened) subsoil shall provide the remainder of the minimum rooting depth, both minimum topsoil and subsoil depths are to be in line with the following table:

	Subsoil Depth	Topsoil Depth	Overall Soil Depth
Grass	150mm	300mm	450mm
Shrubs	300mm	300mm	600mm
Trees (within soft landscape areas)	600mm	300mm	900mm

- 2.7. Approved Chemicals: All chemicals used shall be non-toxic to human beings, birds, and animals, under normal use, and chemicals that are not on the "Agricultural Chemicals Approved Scheme" current list of Approved Products shall not be used.
- 2.8. Organic fertiliser is not to be applied within 10m of surface water (including ditches), hedges, field margins, or environmentally sensitive sites or 50m from springs, wells, or boreholes.
- 2.9. Artificial fertiliser is not to be applied within 2m of water (including ditches), hedges, field margins, or environmentally sensitive sites.
- 2.10. Fertilisers: The bone meal is to be medium-coarse and is to contain not less than 20% soluble PO (Phosphates) and between 3 – 5% NO (Nitrogen).
- 2.11. Compost: Peat-free compost to be used such as Richmoor Soil Improver as supplied by Greentech or similar approved should be used.

- 2.12. Soil Improver: Tree pits and shrub beds will be treated as follows:
- Alginure Soil Improver incorporated into tree pits at 1.5 Kg per m³
 - Alginure Soil Improver incorporated into the shrub beds at 75g per m²

3.0 Plants and Planting

- 3.1. Planting Operations: Planting operations shall be carried out in general accordance with the requirements of BS4428:1989 Code of practice for general landscape operations (excluding hard surfaces).
- 3.2. Damage: All plants shall be adequately and carefully packed and protected to survive transport, by whatever means, to the site without damage in loading, transit, or unloading
- 3.3. If despite these precautions, roots, branches, or shoots suffer slight damage, they shall be carefully pruned. If major damage has occurred, the plant shall be rejected and replaced.
- 3.4. Container and Pot Grown plants: Container and pot-grown shrubs must have grown in weed-free containers of the sizes specified for at least one complete growing season and must be healthy, bushy, vigorous, and well-rooted but not pot-bound and equal to all clauses of this specification.
- 3.5. Species and Varieties: All plants are to be of the species and variety indicated on the schedules and drawings. If however, any plants are unobtainable at the time of order, the contractor is to inform the Employer immediately and submit a list of alternatives for consideration.
- 3.6. Container and pot-grown plants that are not planted on arrival on site must be watered frequently to prevent drying out. Plants that have been allowed to dry out to the extent where their health is affected will be replaced at the Contractor's expense. Immediately before planting, all container and pot-grown plants will be well watered. Care will be taken during planting not to break up the root ball. Where plants have become pot-bound, the roots on the outside of the ball will be gently eased out before planting.

- 3.7. Heeling In: After delivery, if planting is not carried out immediately, root balled plants shall be placed next to each other and the ball covered with sand or fine soil and watered to prevent drying out. Bare-rooted plants shall be heeled in by placing the roots in a prepared trench and covering them with fine soil which shall be watered in to avoid air pockets around the roots.
- 3.8. Shrubs: Shrubs shall comply, at least, with the requirements of BS3936-1:1992 Nursery Stock. Shrubs shall be to the minimum height or spread as specified. Cutting back shall occur if necessary, for the normal development of the plant.
- 3.9. Herbaceous Plants: Herbaceous plants shall be exactly true to name, well-grown, healthy, vigorous clumps, in at least their second season of growth from division or propagation. They shall be planted to the correct depth in staggered rows at approximately equal centres and well-watered at the time of planting and subsequently, as necessary.
- 3.10. Planting shrubs, climbing, and Herbaceous Plants: Dig out holes large enough to receive the roots of the plant fully extended and well spread out. Carefully work topsoil among roots and backfill. Plants to be well-firmed by heeling and the surface left neat and even. Planting must be to the same depth as in the nursery. Care must be taken not to disturb the root balls of pot-grown plants and not let any roots dry out at any time.
- 3.11. Planting within RPA: Any existing vegetation is to be removed by hand. Turf may be removed using a hand driven mechanised turf cutter. Do not reduce any high spots or excavate in any way. Topsoil is to be imported by hand (wheelbarrow). Plant in individual planting pits. If it is likely too severe or damages any roots larger than 25mm in diameter, relocate the planting pit. Mulch is to be imported and spread by hand.

- 3.12. Watering: All plants are to be well-watered immediately after planting operations. To be wet to the full depth of topsoil or wet to field capacity using either potable mains water, recycled or treated greywater. If there is any surface compaction the soil is to be loosened to direct water to the root zone, taking care not to damage or loosen plants. Watering operations are to be undertaken as many times as necessary to ensure the continued thriving of all planting materials.
- 3.13. Water restrictions: If the water supply is, or is likely to be, restricted by emergency legislation, submit proposals for an alternative suitable source of water. Obtain instructions before proceeding.
- 3.14. Mulch: Apply 75mm depth of mulch over the whole planting bed immediately after watering in. Mulch to consist of 'Melcourt Amenity Bark Mulch' available from, www.Melcourt.co.uk; 01666 504398 or similar. Free from pests, disease, weeds, and additives. Rose beds shall have organic manure spread after planting in addition, at a rate of 1m³ to every 20m², before applying mulch. Finished level of bark mulch to be 25mm below the adjacent hard surface to prevent bark mulch from spreading onto adjacent surfaces.

Hedge Planting

- 3.15. Freestanding hedges: a 3-strand galvanised wire and tanalised softwood timber post fence, to BS1722-2:2020 Fencing, is to be erected through the centre of the staggered row of hedge or along the back edge of a single line of hedge. This is to prevent access through the site by pedestrians until the hedges are fully established.
- 3.16. Formal hedgerows: Consistent in species, cultivar, and clone to ensure a uniform hedge. Planting: In trenches large enough to take the full spread of roots. Set out plants evenly.
- 3.17. Naturalised hedgerows: Planting: In trenches large enough to take the full spread of roots. Set out plants evenly.
- 3.18. Immediately following planting operations, watering operations are to be undertaken thoroughly and without damaging or displacing plants or soil. Soil is to be lightly firmed around plants and forked/ or rake soil without damaging roots, to a fine tilth with gentle cambers and no hollows. Bark mulch is then to be applied to the surface, in line with the previous clauses.

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