



Specification for Soft and Hard Landscapes Works

All landscape works shall comply with BS 4428:1989 unless otherwise specified:-

A. Setting Out

1. Setting out shall be set out exactly as shown on the drawing and measured from existing fixed points. Curved beds shall be set out using rail scribed on the ground using two pointed stakes and a line between them with site marker paint. The junction between curves and straight lines shall be set out 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.

B. Ground Preparation

1. The planting hole preparation shall be applied by suitable spraying apparatus using an approved translocated systemic herbicide to 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 aesthetic sheet mulch. Spray immediately if any weeds are present or more are showing, but there may be a delay before planting, or the area is to be topped, spray after one month following completion 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 spraying from incorrect usage or spillage, shall be rectified at the contractor's own cost. Repeat as necessary to ensure complete kill and use of drift and material from cost.

2. Carry out the following works to the existing topsoil on site to ensure it conforms to BS 3882:2015. Bring free from rocks larger than 50mm diameter, concrete, all roots, wire, brick and base less than 20% clay. Allow for an application of 100mm of topsoil. Fertilise with 100g per square metre of Fisons "Nutricote" slow release fertiliser, in accordance with the manufacturer's instructions. For beds less than 5 metres in width, fork over thoroughly with a machine rotavator set to a depth of 300mm, ensuring that the subgrade and topsoil are completely broken up and free draining, releasing any compaction. For beds greater than 5 metres in width, break up the subgrade and topsoil using a tractor mounted subsoiler or ripper at 600mm centre to a depth of 600mm, except where there are services, or within 10 metres of free stumps or 3 metres of existing hedges. Do not rip areas where roots greater than 10mm diameter are encountered. Do not break up soil within the root protection zone of any retained tree. Refer to All About Trees Arbicultural Association for further information.

3. Determine before submitting a tender, the extent of support from the site manager with ground preparation, ensure all of planting beds are graded to a level 100mm below adjacent grass or paved surface, (100mm below where agro-textile soil 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 surface, to ensure water can run off. The landscape architect is responsible for ensuring that the final product conforms to the specification even where the developer and/or main contractor shall be liable to apply and spread topsoil to the required level. The landscape architect shall allow for adjustment of levels, as specified above, including re-grading subsoil and topsoil. Where beds are sloping, ensure that topsoil is graded to the specified levels below pavement or grass surface before adjacent to the level. 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 into the specified areas.

4. For sloping areas to be turfed adjacent to paved areas, topsoil levels shall be graded flush with the finished pavement level (up to 10mm below) and a 10mm wide drainage channel to be provided to the soft areas. Soil of grass areas should therefore never be proud of paved areas. Soil levels more than 15mm below pavement edges will cause water damage on cutting.

5. Imported topsoil (where specified and sanctioned by the employer) for making up ground, shall conform to BS 3882:2015 and be free from rocks (over 50mm diameter), concrete, debris and bark, and have less than 20% clay content. 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, surfacing, and standard trees, and also for maintenance requirements.

2. No substitutions will be accepted without the prior agreement of the landscape architect. The contractor shall replace at its own cost any stock size, species or variety of plant which has not been specified on the planting area and schedule, unless prior agreement to a substitution by the landscape architect has been received. All plants shall be specified in the schedule and accompanied notes. C/N are 100% and 100% respectively. All plants, (other than ground cover) shall be 400-600mm height and spread, or other as specified in the schedule. All plants shall be healthy, disease free stock, not pot bound, kaggy or spindly. There should be a minimum of 30% root ball. This specification is the minimum standard required and any stock falling below this standard, in the sole opinion of the landscape architect, shall be filed and replaced at the contractor's expense.

3. Refer to accompanying Landscape Management Plan for watering details.

4. Proposed large hedgerow or standard trees to be true to the species, variety and size as specified on the planting area, to include 1.6m chestnut stake 600mm above ground and 1000mm below ground) and this to be with spacing device positioned 25mm maximum from the top of the post.

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

6. Self-cleaning climbing shrubs or wall shrubs shall be trained to the wallface with heavy duty green coated garden wire. Training shall be carried out by the contractor by means of 125mm long stainless steel eye screw fittings. Position this at 250mm from ground. From the similar to the wire with plastic coated garden wire tags.

7. Fencing sections of simple barbed wire to be trained to wallface using mounting ready-made trellis panels 1.8 x 1.8m generally (but 1.8 x 2.4m for corners or where space is restricted). Include for adapting sections of simple barbed wire with a length of 1.8m. The trellis panels to the wallface using non rusting screws 120mm long (to be approved).

8. Incorporating 50mm cube wood spacing blocks to ensure that the panels are mounted sufficiently far from the wall face to allow drainage. Ensure all trellis panels are secured with a non phlyto-toxic preservative and then painted with a dark brown non reflective paint. The trellis shall be secured to the wall face with a minimum of 2 screws. Ensure the trellis is not in contact with the ground. Train the climbing shrub to the trellis with plastic coated garden wire tags.

9. Climbers specified outside proposed shrub beds shall have specially prepared timber pits (center pits shall be 400mm x 400mm and 600mm deep) (minimum depth to be specified) with topsoil (from site - unless otherwise agreed). Ensure the base of the pit is thoroughly broken back and free topped. Ensure no roots from the trellis are in contact with the pit and service, and make good all structures and surfaces disturbed. Fertilise with 50g of Fisons "Nutricote" slow release fertiliser. Water with 15 litres of water per climber pit.

D. Mulch

1. Where specified by the additional specification notes on this plan, supply and spread aggregate "Weedstop Fabric" sheet mulch over planting beds, previously cultivated, graded and fertilised (topsoil before planting) and long down with Weedstop pegs at a maximum of 500mm centres, (500mm at edges) and beds less than 1m wide. Pegging this density is essential to prevent flags of material becoming exposed. Refer to the specification for "Weedstop Fabric" sheet mulch on plan.

2. Following planting supply and spread evenly Melcor Industries "Biotic Biomulch" to a depth of 10mm. (Green if no mulch specified, over 10mm if specified). Fresh mulch levels shall be no higher than 15mm below pavement or grass level to avoid any spill onto pavements or lawns. If no substitution of mulch types will be acceptable, it is essential to have a no-fines, large particle, brown wood chip to reduce weed growth, reduce wind loss and prevent rapid break down.

E. BS Codes

1. All workmanship and materials shall conform to the following codes:-
 - General landscape operations (including surfacing) - BS 4428:1989
 - Trees in relation to construction - BS 5837:2012
 - BS 3998:2010 (recommendations for tree works) unless otherwise specified.
 - Arboricultural Association - Code of Practice for tree work contracts - standard conditions of contract and specification for tree works 2006.
 - BS 6843:2014 Trees: from nursery to installation in the landscape.
 - Recommendations:
 - Nursery stock in accordance with latest Horticultural trade association nursery stock specification entitled "National Plant Specification 2001".
 - Turf - BS 3848:1998 requirements for turf for general purposes.
 - Seeding - EEC Regulations 1974. Use blue labelled certified varieties to EC purity and germination regulations, when requested, submit an official seed Testing Station Certificate of germination, purity and composition.
 - Topsoil - BS 3882:2015
 - 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 1991, Control of Pollution Act 1974, Watergate Act 1987, Wildlife and Countryside Act 1981.

F. General Notes for the Developer

1. Tree Protection
 - Please refer to All About Trees' tree protection information. No digging to take place within the root protection zones of protected trees.

2. Ground Work
 - 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 or the landscape contractor to commence work on beds will become waterlogged in wet weather and the plants and turf.
 - Top soil spread from on site should be to the following minimum depths:-
 - Shrub beds 300mm.
 - Grass areas 150mm, allow for excavation of 415mm of the subgrade for shrub beds to leave beds above level. Retained pavement or grass areas in order to receive level of ground and mulch. (100mm below where sheet mulch is to be used).
 - Tree pits will be as per BS 8545:2014. Top soil shall be spread for grass areas flush with any areas of paving and/or pavement. 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 other settlement (up to a maximum of 5mm below) to allow for rain water to drain onto soft surfaces.
 - Settlement shall be as per BS 8545:2014. The contractor shall be responsible for any encountered with moving the blades, in danger of touching concrete edgings or where soil is proud of pavements, then drainage problems will be encountered with the contractor's own cost.
 - Existing topsoil and imported soil shall conform to BS 3882:2015, and be free from compaction, rocks/bricks greater than 50mm diameter, concrete, wire, roots, debris, oil, cement, and rubbish rubble. Soil shall have a clay content of less than 20%.

3. Hardworks
 - Hard works, unless otherwise agreed, shall be carried out by the developer or main contractor. All materials and workmanship shall be in accordance with the construction details and the layout plan.
 - All utility manholes shall be set out properly to lines and radii, with all curves marked on the ground using pointed pegs and string or site marker paint, achieving minimum tolerances. Setting out shall be agreed with the landscape architect and subsequently the landscape architect.
 - Hard surfaces shall be constructed after suitable base courses have been laid, taking full account of the construction, soft spots and subsidence. The minimum base courses are minimum depths assuming suitable substrate conditions.
 - All materials shall be finished and delivered to site in accordance with BS EN 12620:2002. The contractor shall be responsible for the thorough removal of all galvanising salts (draining) to the complete satisfaction of the Landscape Architect.
 - The landscape architect shall prepare the groundwork surface by washing with a high pressure water jet and scrubbing with a rotating wheel and all 400g/l of green, white and red 1.5kg bags of 100% acrylic based water based wood preservative. Supply and paint 1000ml 6620 from Sika Ltd (ref: 01707 374444) applied with a brushhead brush strictly in accordance with the manufacturer's instructions. COSHH sheet Water Supply (Water Quality) Regulations amended 1991, Control of Pollution Act 1974, Watergate Act 1987, Wildlife and Countryside Act 1981.
 - Apply 2kg coats of paint with a dry film thickness of 100 microns per coat. Apply paint only when groundwork surface is thoroughly dry. If temperature is below five degrees Celsius and in any event above the current 5 day 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 contractor's own cost.
 - All wood work to use ACO water based wood preservative applied by vacuum pressure by Permaseal or other similar and approved company. The timber shall then be stained with 3kg coats of Sikkens Classic colour Walnut strictly in accordance with the manufacturer's instructions. COSHH Regulations 2003 and product COSHH sheet.

- Extra heavy standard tree planting in grassed areas with protection offered to adjacent highways/swale construction, as per drawing c-1987-17. Tree pits as per BS 8545:2014. To include single 1.6m timber stake, 600mm above ground, spacer and biodegradable tie.
- Extra heavy standard tree planting in grassed or planted areas. Tree pits as per BS 8545:2014. To include single 1.6m timber stake, 600mm above ground, spacer and biodegradable tie.
- Heavy standard tree planting in grassed or planted areas. Tree pits as per BS 8545:2014. To include single 1.6m timber stake, 600mm above ground, spacer and biodegradable tie.
- Ornamental shrub planting, including 50mm depth no-line bark mulch. Individual species to be planted in groups of no more than 7 plants.
- Ornamental hedge planting, including 50mm depth no-line bark mulch.
- Native hedge planting. Plants to be planted at 0.33m spacing in a double staggered row (6 plants per linear metre). Shelters to all plants. Species to be planted in random, single species groups of no more than 5 plants.
- Areas to be turfed.
- Areas of amenity grass seed mix or existing grassland, made good.
- Areas of species-rich acid meadow grass seeding, such as Emorsgate Mix EM4, or similar and approved.
- New native planting at 1m (shrub species) and 2m (tree species) centres, including tubular guards and stakes.
- Proposed native marginal planting.
- Proposed native reed/grass planting within swale base.
- Proposed sensory planting to play area.
- Sand/gravel margin to edge of lake.
- Hoggin paths.

TARE / 40.2 ACRES NET PLANTINGS

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Client
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Project
 Lincolnshire Lakes, Scunthorpe

Drawing Title
 Landscape Masterplan

Scale
 1:1000 @ A1 PDP

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