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Project
VASTERN ROAD R E A D I N G

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Topsoil, Growing Media and Ameliorants	L	SPEC		Q28	P03
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LANDSCAPE SPECIFICATION

Q28 Topsoil, Growing Media and Ameliorants

To be read with Preliminaries/ General conditions.

50 SCOPE

- The works will include, but will not necessarily be restricted to, the following:
 - Testing existing topsoil and imported topsoil/media for suitability for general landscape purposes.
 - Testing existing topsoil and imported topsoil/media for suitability for specialist landscape purposes.
 - Checking depth and quality of subsoil to formations beneath soft landscape areas.
 - Ripping and/or cultivation of formations to break up all compaction and aid drainage.
 - Grading of formation levels to achieve specified soil depths.
 - Digging, loading and carting topsoil/subsoil from on site spoil heaps.
 - Importing additional topsoil as necessary to complete the works. OR
 - Importing topsoil from an approved source (use where no suitable topsoil exists on site).
 - Importing additional subsoil as necessary to complete the works.
 - Spreading topsoil to required depths and profiles.
 - Spreading subsoil, where used as a growing medium, to required depths and profiles.
 - Backfilling tree pits in paved areas with special soils capable of withstanding vehicular loadings.
 - Preparing areas of insitu topsoil so that they are in a suitable state for seeding and planting operations specified in other sections.

NOTE: It is assumed the Landscape Subcontractor will carry out those operations covered in this section in order to maintain the validity of plant guarantees.

60 PREPARATORY WORKS BY OTHERS

- General: The following works will be carried out by others prior to the commencement of the sub-contract works covered in this section:
 - Stripping and storing existing uncontaminated topsoil for subsequent re-use.
 - General excavating, filling and grading to profiles and formation levels beneath soft landscape areas.
 - Installation of land drains, tree pits in paving and other specified areas.
 Refer to the Drainage Engineer's drawings and specifications for details.

70 INTERFACE

- Co-ordinate with:
 - General ground works operations.
 - Drainage and below ground services.
 - Seeding and planting operations.

SYSTEM OUTLINE

100 SOIL SYSTEM FOR TREE PITS, ORNAMENTAL & NATIVE SHRUB BEDS & RAISED METAL/BRICK PLANTERS AT GROUND LEVEL

- Topsoil: Imported topsoil to BS3882 to clause 325
- Testing: To Clause 612
 - Ameliorants: As clause 400
- Accessories: Water Retention Gel as clause 385

102 INTENSIVE LIGHTWEIGHT SOIL SYSTEM FOR RAISED METAL/BRICK PLANTERS TO PODIUM SLAB AREAS

- Topsoil: Imported lightweight growing medium to BS3882 to clause 341
- Testing: To Clause 612
 - Ameliorants: As clause 341

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- Accessories: Water Retention Gel as clause 385

103 LOW-FERTILITY SUBSOIL FOR AREAS OF SPECIES-RICH GRASSLAND

- Subsoil: Imported subsoil as 326
- Testing: To Clause 611
- Depths: As clause 656

104 SOIL SYSTEM FOR OTHER GREEN ROOF

- Subsoil: Imported growing medium as 342
- Testing: To Clause 611
- Depth: As clause 342

PRODUCTS

300 PREPARATION MATERIALS GENERALLY

- Purity: Free of pests and disease.
- Foreign matter: On visual inspection, free of fragments and roots of aggressive weeds, sticks, straw, subsoil, pieces of brick, concrete, glass, wire, large lumps of clay or vegetation, and the like.
- Contamination: Do not use topsoil contaminated with subsoil, rubbish or other materials that are:
 - Corrosive, explosive or flammable.
 - Hazardous to human or animal life.
 - Detrimental to healthy plant growth.
- Subsoil: In areas to receive topsoil or planting media, do not use subsoil contaminated with the above materials.
- Objectionable odour: None.
- Give notice: If any evidence or symptoms of soil contamination are discovered on the site or in topsoil or planting media to be imported.

305 PERMITTED MATERIALS

- Materials:
 - Bark;
 - Biosolids from sewage sludge;
 - Composted bark;
 - Composted cocoa shell;
 - Composted coir fibre;
 - Composted green/ food waste certified to PAS 100;
 - Composted sewage sludge;
 - River dredgings; and
 - Spent mushroom compost.
- Give notice: before ordering or using.
- Declaration of compliance in accordance with BS EN 13650: Required.

310 MATERIALS NOT PERMITTED

- Materials: Peat and Products containing peat.

325 IMPORTED TOPSOIL FOR GENERAL PLANTING AREAS

- Provide as necessary to make up any deficiency of topsoil existing on site and to complete the work.
- Standard: To BS 3882.
- Source:
- Texture: Sand (0.05-2.0mm) max. 75% min. 20%
- Silt (0.002-0.05) max, 60% min. 5%
- Clay (less than 0.002mm) max. 30% min. 5% .
- Reaction: pH 6.5 - 7.0 to BS 1377:Part 3.
- Organic matter: not less than 4% on dry weight basis

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- Electrical conductivity: below 1500 microhoms per cm in 1:2.5 soil: water extract.
- Chemical content threshold for grassed areas shall be an index of 3 or over for phosphates and 2 or over for potassium. For shrub areas an index of 3 or over for phosphates, potassium, magnesium and nitrogen.
- Phytotoxic elements:
 - Total Copper (CU): less than 100mg/kg
 - Total Nickel (Ni): less than 60mg/kg
 - Total Zinc (Zn): less than 200mg/kg
 - Water soluble Boron (b): less than 3mg/kg
- Zootoxic elements: In line with BS 3882 Topsoil must be free from chemical contamination that may pose a risk to the health of future site users and below the GAC values derived by SOCOTEC using EA CLEA model:
 - Metals and semi-metals:
 - Total Arsenic (As): less than 32mg/kg
 - Total Cadmium (Cd): less than 10mg/kg
 - Total Chromium (Cr): less than 3000mg/kg
 - Chromium IV(hexavalent): less than 4.2mg/kg
 - Total Lead (Pb): less than 185mg/kg
 - Total Mercury (Hg): less than 20mg/kg
 - Total Selenium (Se): less than 351 mg/kg
 - Polycyclic Aromatic Hydrocarbons:
 - Benzo(a)pyrene: less than 0.94 mg/kg
 - Dibenzo(a,h)anthracene: less than 0.85 mg/kg
 - Naphthalene: less than 3.7 mg/kg
 - Total Petroleum Hydrocarbons:
 - TPH >C8-C10: less than 19 mg/kg
 - TPH >C10-C12: less than 46 mg/kg
 - PH >C12-C16: less than 307 mg/kg
 - TPH >C16-C21: less than 482 mg/kg
 - TPH >C21-C35: less than 1110 mg/kg
 - Other:
 - Total Phenol: less than 290 mg/kg
 - Total Cyanide: less than 3.4 mg/kg
 - Asbestos: no bulk fibres present
- Screened or blended topsoil will not be acceptable
- Made up of discernible crumbs, typically of 2 - 7 mm diameter, each comprising an aggregation of soil particles attracted around a sticky humus centre.
- Maximum size of stones in any dimension: 20 mm.
- Maximum stone content by dry weight: 35 % of which the fraction 2mm-5mm must not exceed 20% by dry weight.
- On visual inspection, free of fragments and roots of aggressive weeds, sticks, straw, subsoil, pieces of brick, concrete, glass, wire, large lumps of clay or vegetation, or other foreign matter.
- Submit certificate of analysis as clause 612

326 IMPORTED SUBSOIL TO BE USED AS A GROWING MEDIUM FOR SPECIES-RICH GRASSLAND AREAS

- Quantity: Provide as necessary to make up any deficiency of subsoil existing on site and to complete the work.
- Source: Submit proposals for approval
- Texture: (to BS 1377: Part 2):
 - Sand (0.05-2.00mm) max. 70% min. 20%
 - Silt (0.002-0.05) max, 60% min. 5%
 - Clay (less than 0.002mm) max. 30% min. 5%
- Reaction: (to BS 1377:Part 3) pH 5.0 - 8.0. Stone content (dry sieving): less than 50 by dry weight
- Maximum size of stone in any dimension: 75mm

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- Electrical conductivity (salinity): less than 1500 microsiemens per cm when expressed on a 1:2.5 w/v soil: water extract
- Phytotoxic elements: Requirements as clause 325.
- Zootoxic elements: Requirements as clause 325.
- Visual inspection: Free from visible weeds, roots of aggressive perennial weeds, turf and significant quantities of other foreign matter (brick, concrete, plaster, grass, metal, plastic, timber etc)
- Submit: Certificate of analysis as clause 611.

341 INTENSIVE LIGHTWEIGHT GROWING MEDIUM TO RAISED METAL/BRICK PLANTERS TO PODIUM SLAB AREAS

- Manufacturer: Bauder **or equal approved**
 - Product reference: Intensive Substrate
- Material: Manufactured Soil
- Saturated Weight: 1250Kg/cubic m.
- Fertilizer: Bauder Organic Fertilizer at 80g/sqm.
 - Coverage: To soft landscaped areas
 - Depths: As clauses 110 & 120
- Declaration of analysis: Submit.

342 OTHER GREEN ROOF GROWING MEDIUM

- Manufacturer: Bauder Ltd. 70 Landseer Road, Ipswich, IP3 0DH or equivalent approved.
 - Product reference: Biodiverse Substrate **or equal approved**
- Material: Composted pine bark with recycled crushed brick and expanded clay shale.
- Depth: 80mm minimum
- Declaration of analysis: Submit.

385 WATER RETENTION GELS FOR USE IN SOIL MIXES TO RAISED PLANTERS

- Type: Agri polymer gel .
- Manufacturer: Agricultural Polymers International Limited, Tel 0191 385 348.
 - Product reference: Broadleaf P4.
- Accessories: None.
- Granules to be incorporated at 100g/m³ into soil.

400 FERTILIZER TO BE INCORPORATED INTO SOIL/GROWING MEDIUM

- Manufacturer: Everris Limited, Epsilon House, West Road, Ipswich IP3 9FJ. Tel: 0844 8094470
 - Product reference: Sierrablen Flora (15+9+9).
- Application: Spread evenly.
 - Timing: Immediately before cultivation.
 - Coverage: 70g/m²

PREPARATION

500 SITE PREPARATION

- General: All excavating, filling and rough grading of soft landscape areas to formation levels beneath finished topsoil levels will be carried out by the Main Contractor or Earth

505 FORMATIONS TO SOFT LANDSCAPE AREAS

- General: Before the commencement of soiling operations, inspect all formation levels and obtain instructions if:
 - Areas have not been excavated and/or filled to the required levels below finished soil levels.
 - A formation of naturally occurring subsoil/imported subsoil is not obtained at the specified depths below formation levels.
 - The formation is unduly compacted, waterlogged or excessively contaminated with builders rubbish, rubble or other deleterious material.

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510 CLIMATIC CONDITIONS

- General: Carry out soiling operations whilst weather and soil conditions are reasonably dry eg. the soil crumbles in the hand when rolled and does not smear. Do not spread topsoil or carry out other soiling operations during periods of heavy rain or if the ground is waterlogged or frozen.

515 MACHINERY AND TOOLS

- Type: Use only tracked machinery with a low ground pressure for all soiling operations to avoid undue compaction of the ground. Fit machinery used for excavating and spreading soil with a toothed bucket to prevent smearing and compaction.
- Hand tools: Use in confined spaces where it is impractical to use machinery.

520 CO-ORDINATE SOILING OPERATIONS

- General: Carry out operations in such a way that trafficking and compaction of the prepared sub-grade and topsoiled areas is minimised.
- Insitu topsoil: Prevent trafficking of areas that are to be incorporated into the final landscape scheme or which are to be stripped and stored for later re-use.

525 UNDERGROUND SERVICES

- General: Confirm positions and depths of all existing and new underground services prior to commencing soiling operations.

EXECUTION

611 SUBSOIL ANALYSIS

- Obtain approval of a sample of on site and imported of every 1000m³, for variable condition every 500m³, with a report from SOCOTEC (0118 932 4470) or Tim O'Hare Associates (01491 822 653) of physical and chemical properties as below (two weeks are needed for such tests).
- Samples must be representative of the soil being offered. Take 10 equal samples, mix together thoroughly and divide into 4 equal amounts.
- Send 1 - 2 kg of the mixture (in a plastic bag labelled with name and details of origin) to the analyst with a request for the following information:
 - Soil reaction and lime requirement
 - Electrical conductivity
 - Mechanical analysis
 - Soil texture
 - Stone content
- Submit the original of the Soil Analyst's Report to the CA together with the Soil Analyst's recommendations for making good any deficiencies and treatments related to grassing and planting proposals.

612 TOPSOIL ANALYSIS

- Obtain approval of a sample of on site and imported topsoil of every 1000m³, for variable condition every 500m³, with a report from SOCOTEC (0118 932 4470) of physical and chemical properties as below (two weeks are needed for such tests).
- Samples must be representative of the soil being offered. Take 10 equal samples, mix together thoroughly and divide into 4 equal amounts.
- Send 1 - 2 kg of the mixture (in a plastic bag labelled with name and details of origin) to the analyst with a request for the following information:
 - Soil reaction and lime requirement
 - Electrical conductivity
 - Mechanical analysis
 - Soil texture
 - Stone content
 - Nutrient levels: Nitrogen, available Phosphorus, available Potassium, available Magnesium.
 - Organic matter.

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- Submit the original of the Soil Analyst's Report to the CA together with the Soil Analyst's recommendations for making good any deficiencies and fertiliser treatment related to grassing and planting proposals.
- At the reasonable request of the CA the Contractor shall test samples of topsoil on site by an independent soil scientist for anaerobic conditions.

620 IMPORTING TOPSOIL

- Give notice: Before stripping topsoil for transfer to site.
 - Notice period: 7 days.

621 INSPECTION OF IMPORTED TOPSOIL/SUBSOIL

- Visual Inspection: For each provisionally approved source provide a sample load of not less than 5m³ before making further deliveries to site. Sample must be representative of soil being offered.
- Samples: Retain on site for visual comparison with subsequent loads.
- Rejected samples: Remove from site.
- Testing: Collect random samples from delivered loads as instructed for further analysis to ensure uniformity of quality.
- Submit certificates in accordance with clause 611 and 612 at no additional cost.

626 CONDEMNED TOPSOIL

- Where a topsoil analysis proves that the topsoil may be treated at the Contractor's expense to comply with the specification the topsoil may be used after treatment, otherwise the topsoil will be condemned and shall be removed from site at the Contractor's expense.

630 DOCUMENTATION FOR IMPORTED TOPSOIL

- Timing: Submit at handover.
- Contents:
 - Full description of all soil components.
 - Record of source for all soil components.
 - Record drawings showing the location and depth of all soils by type and grade.
 - Declaration of analysis: in accordance with BS 3882, Annex E.

635 DOCUMENTATION FOR COMPOST AND COMPOSTED MATERIALS

- Timing: Submit at handover.
- Contents:
 - Full description of all compost components.
 - Record of source for all compost components.
 - Analyst's report for each test carried out.
 - Declaration of compliance: in accordance with PAS 100 and BSI PD CR 13456.
 - Quality Compost Protocol certification: Provide on request

650 NOTICE

- Give notice before:
 - Setting out.
 - Spreading topsoil.
 - Applying herbicide.
 - Applying fertilizer.
 - Visiting site during maintenance period.

655 MECHANICAL TOOLS

- Restrictions: Do not use within 100 mm of tree and plant stems.

656 SUBSOIL DEPTHS

- General: Ensure the following minimum subsoil depths have been provided beneath formation levels to soft landscape areas:

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- Grass areas: 400mm.
- Trees: 1000mm
- Shrub planting areas: 500mm.
- Insufficient depth: Excavate and dispose of material, loosen formation and make up with additional subsoil or second quality topsoil.

657 PERENNIAL WEEDS

- Apply herbicide and allow period of time recommended by manufacturer to elapse before grading.

658 CONTAMINATED SUBSOIL

- Thoroughly clean subsoil of all builders rubbish, concrete, bricks, reinforcement mesh and rods, polythene sheets, etc., to a depth of at least 1 metre below finished levels in tree and shrub areas and 600mm in grass areas before ripping ground. Obtain approval before either spreading additional subsoil to make up levels, or spreading topsoil as specified.

659 GENERALLY RIPPING SUBSOIL

- Ripping must be carried out with a winged tine cultivator. The tines must be spaced at no more than 1.2m apart and the outer tines must be in line with the tracks of the pulling unit. Ripping must be aligned down slope (if this is safe and practical) to facilitate drainage. Ripping must only be carried out when the soil is dry or friable in order to cause maximum heave and shattering.

660 GRADING SUBSOIL

- General: Grade to smooth flowing contours to achieve specified finished levels of topsoil.
- Areas of thicker topsoil: Excavate locally.
- Restore finished levels after settlement. Import subsoil as necessary.
- Avoid over compaction.

665 SUBSOIL SURFACE PREPARATION

- General: Excavate and/ or place fill to required profiles and levels, as section D20.
- Loosening:
 - Light and noncohesive subsoils: When ground conditions are reasonably dry, loosen thoroughly to a depth of 700mm at 600mm centres in two directions obliquely cross the slope.
 - Stiff clay and cohesive subsoils: When ground conditions are reasonably dry, loosen thoroughly to a depth of 500mm at 500mm intervals drawn by a crawler tractor in two directions obliquely across the slope. Cross ripping will be necessary on compacted or heavy soil.
 - Rock and chalk subgrades: Lightly scarify to promote free drainage.
- Stones: Immediately before spreading topsoil, remove stones larger than 75mm.
- Slopes: Draw obliquely across the slope to facilitate drainage, in transverse directions.
- Confined spaces: Use suitable hand tools and/or a toothed bucket on the back of a machine to thoroughly loosen subsoil to a minimum depth of 400mm.
- Other items: Remove bricks, kerbs, lumps of concrete, plaster, timber, plastic, glass, metal and any other building debris brought to the surface.
- Approval: Make advance arrangements for finished subsoil formations to be inspected before spreading further subsoil or topsoil. Make adjustments to levels and profiles as required.
- Where the landscape subcontractor is responsible for topsoiling operations, he will be responsible for replacing all plant material that fails as a result of waterlogging.

670 INSPECTING FORMATIONS

- Give notice: Before spreading topsoil for all areas.
- Notice period: 7 days.

692 CONTAMINATION

- General: Do not use topsoil contaminated with subsoil, rubbish or other materials that are:
 - Corrosive, explosive or flammable.
 - Hazardous to human or animal life.

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- Detrimental to healthy plant growth.
- Subsoil: In areas to receive topsoil, do not use subsoil contaminated with the above materials.
- Give notice: If any evidence or symptoms of soil contamination are discovered on the site, or in topsoil to be imported.

695 CULTIVATION

- Compacted topsoil: Break up to full depth.
- Tilth: Loosen, aerate and break up topsoil to a tilth suitable for blade grading.
 - Depth: 100 mm.
 - Particle size (maximum): 10 mm.
 - Timing: Within a few days before planting.
 - Weather and ground conditions: Suitably dry.
- Surface: Leave regular and even.
- Levels: As D20.
- Undesirable material brought to the surface: Remove visible weeds, roots and large stones with any dimension exceeding 50 mm.
- Soil within root spread of trees and shrubs to be retained: Do not dig or cultivate.

700 GRADING OF TOPSOIL

- Topsoil condition: Reasonably dry and workable.
- Contours: Smooth and flowing, with falls for adequate drainage.
 - Hollows and ridges: Not permitted.
- Finished levels after settlement: 30mm above adjoining paving, kerbs, manholes etc.
- Blade grading: May be used to adjust topsoil levels provided depth of topsoil is nowhere less than [150mm].
- Give notice: If required levels cannot be achieved by movement of existing soil.

705 HANDLING TOPSOIL

- Aggressive weeds:
 - Species: Included in the Weeds Act, section 2 or the Wildlife and Countryside Act, Schedule 9, part II.
 - Give notice and obtain instructions before moving topsoil.
- Plant: Select and use plant to minimize disturbance, trafficking and compaction.
- Contamination: Do not mix topsoil with:
 - Subsoil, stone, hardcore, rubbish or material from demolition work.
 - Other grades of topsoil.
- Multiple handling: Keep to a minimum. Use or stockpile topsoil immediately after stripping.
- Wet conditions: Handle topsoil in the driest condition possible. Do not handle during or after heavy rainfall or when it is wetter than the plastic limit less 3%, to BS 1377-2 .

710 SPREADING TOPSOIL

- Temporary roads/surfacing: Remove before spreading topsoil.

Layers:

- Depth (maximum): 150 mm.
- Gently firm each layer before spreading the next.

Overall minimum depths after firming and settlement to be:

- Grass Areas: 150mm
- Shrub Areas: 450mm
- Aquatics: 300mm
- Trees: according to stock type

Subsoil used as a growing medium: Overall minimum depths after firming and settlement to be:

- Wildflower grass areas: 150mm

Crumb structure: Do not compact topsoil. Preserve a friable texture of separate visible crumbs wherever possible.

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715 LOOSE TIPPING OF TOPSOIL

- General: Do not firm, consolidate or compact topsoil when laying. Tip and grade to approximate levels in one operation with minimum of trafficking by plant.
- Depths after settlement (minimum): As clause 710.

716 REMOVE WEEDS

- Remove by hand to full depth of topsoil all roots of weeds, grasses and all other debris, vegetable or otherwise. Do not proceed with grass works or planting until condition of topsoil is approved by CA.

718 FINAL CULTIVATION

- Compacted topsoil: Break up to full depth.
- Tilth: Loosen, aerate and break up topsoil to a tilth suitable for blade grading.
- Depth: 100 mm.
- Particle size (maximum): 10 mm.
- Timing: Within a few days before planting.
- Weather and ground conditions: Suitably dry.
- Surface: Leave regular and even.
- Levels: As section D20.
- Undesirable material brought to the surface:
 - Remove visible weeds.
 - Remove roots and large stones with any dimension exceeding 50 mm.
- Soil within root spread of trees and shrubs to be retained: Do not dig or cultivate.

720 FINISHED LEVELS OF TOPSOIL AFTER SETTLEMENT

- Above adjoining paving or kerbs: 30 mm.
- Below dpc of adjoining buildings: Not less than 150 mm.
- Planting beds: Higher than adjoining grass areas by 50 mm.
- Seeded areas: Extend cultivation into existing adjacent grassed areas sufficient to ensure full marrying in of levels.
- Sportsfields: To even levels and within the following permitted deviations:
 - From levels or gradients shown on drawings: ± 75 mm.
 - From line between boning rods 30 m apart: ± 25 mm.
- Within root spread of existing trees and shrubs to be retained: Do not dig or cultivate.
- Adjoining soil areas: Marry in.
- Thickness of turf or mulch: Included.

730 GREEN ROOF GROWING MEDIUM INSTALLATION

- Handling: Minimize.
 - Conditions: Handle in the driest condition possible. Do not handle or install when wet or frozen.
- Layers:
 - Depth (maximum): 150
 - Sequence: Gently firm each layer before spreading the next.

735 BACKFILLING AND COMPACTION OF TREE SOIL TO CRATE SYSTEMS IN PAVED AREAS

To be carried out in fully accordance with supplier guidance (Deeprout):

- Place the first lift of backfill material loosely around the perimeter of the Silva Cell system, between the geogrid and the sides of the excavation. Place backfill to approximately the midpoint of the Silva Cell post. Do not compact.
- Place the first lift of planting soil in the Silva Cell system to approximately the midpoint of the Silva Cell post.
- Level the planting soil throughout the system.
- Walk-through the placed planting soil to remove air pockets and settle the soil.
- Lightly compact soils by walking through the soil following placement.
- Walk through compaction shall result in 75-85 percent of maximum dry density in accordance with ASTM D698, Standard Proctor Method. Do not exceed root limiting compaction for the given

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soil type.

- Compact the first lift of backfill material, previously spread, to 95 percent of maximum dry density in accordance with ASTM D698, Standard Proctor Method or in accordance with Project Specifications for hardscape areas, whichever is greater.
- Add and compact additional backfill material so that the final finished elevation is at approximately the same level of the placed planting soil within the Silva Cells.
- Maintain the geogrid between the Silva Cell system and the backfill material at all times.
- Place the second lift of backfill material loosely around the perimeter of the Silva Cell system, between the geogrid and the sides of the excavation so that the material is 2 to 3 inches below the top of the posts. Do not compact.
- Place the second lift of planting soil inside of the Silva Cell to the bottom of the strongbacks. Walk through compact.

820 APPLYING GENERAL FERTILIZER

- Application: Spread evenly, carefully incorporating below mulch materials.
 - Timing: Immediately before cultivation.
 - Application rate: 70 g/m².

825 APPLYING PRESEED/TURF FERTILIZER TO PROPOSED AMENITY GRASS AREAS

- Application: Before final cultivation and three to five days before seeding/ turfing.
- Manufacturer: Germinal GB Limited, Camp Road, Witham St. Hughes, Lincoln, LN6 9QJ. Tel: 01522 868714 .
- Reference: G1
or
- Reference: G2 (impoverished soils)
- Spread evenly, in transverse directions.
 - Rate: 70 g/m².

845 APPLYING LOOSE MULCH TO AMENITY PLANTING AREAS

- Timing: Immediately after planting.
- Preparation: Water soil thoroughly.
- Coverage of mulch (minimum):
 - Planting beds (depth): 75 mm depth.
 - Trees: 75 mm depth.
 - Container planting: 75 mm depth.
- Finished level of mulch: 30 mm below adjacent grassed or paved areas.

COMPLETION

920 APPLYING MULCH

- Timing: At end of the maintenance period.
- Watering: Ensure that soil is thoroughly moistened prior to mulching, applying water where necessary.
- Planting beds: Re-mulch.
 - Depth (minimum): 75 mm.
- Trees: Remulch.
 - Depth (minimum): 75 mm.
- Container planting: Remulch.
 - Depth (minimum): 75 mm.