

**P4PBT - SPEC AND DRAWING  
PACKAGE TO DISCHARGED  
PLANNING CONDITION 18 -  
GREEN ROOFS.**

STW 04/11/2019

# Project 172

## UCLH PROTON BEAM THERAPY CENTRE

### Soft Landscape Specification

172-DOC-003

22 March 2018



# 172-UCLH Proton Beam Therapy Centre

FOR PLANNING

22 March 2018

**This document includes:**

Code	Section	Revision	Dated
Q28	Topsoil and soil ameliorants	-	22 Mar 2018
Q31	External planting	-	22 Mar 2018
Q35	Landscape maintenance	-	22 Mar 2018

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**Q**

**Paving/Planting/Fencing/Site furniture**

**Q28**  
**Topsoil and soil ameliorants**

**Section Revision History**

No.	Purpose	
-	FOR PLANNING	22nd Mar 2018

**Clauses amended in Revision -**

This is the first revision stamp for this section. For all future revision stamps, details of all clauses amended at that revision will be included here.

## Q28 Topsoil and soil ameliorants

To be read with Preliminaries/ General conditions.

### SYSTEM OUTLINE

- 135 PLANTING BED SOIL SYSTEM TO RAISED PLANTERS
- Composition:
    - Topsoil: Imported topsoil to BS 3882.
    - Ameliorants: Sanitized and stabilized composted materials.
    - Accessories: None.
- 155 MULCHING AND TOP DRESSING SYSTEM TO RAISED PLANTERS
- Composition:
    - Material: Composted Ornamental Bark Mulch.

### 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.
- 310 MATERIALS NOT PERMITTED
- Materials: Peat and Products containing peat.
- 315 IMPORTED TOPSOIL TO BS 3882 TO RAISED PLANTING BEDS
- Quantity: Provide as necessary to make up any deficiency of topsoil existing on site and to complete the work.
  - Standard: To BS 3882.
  - Classification: Multipurpose.
    - Soil textural class to BS 3882, Figure 1: Sandy clay loam or Sandy loam.
  - Source: Contractor's choice.
    - Product reference: Contractor's choice.

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- 345 AGGREGATES TO BASE OF RAISED PLANTERS FOR DRAINAGE
- Source: Contractor's choice.
    - Product reference: Contractor's choice.
  - Reference, description and grading:
    - Sand: Not required.
    - Grit: 10 mm single size pea shingle.
    - Crushed materials: Not required.
    - Other aggregates or particles: none.
  - Recycled content: None permitted.
- 360 SANITIZED AND STABILIZED COMPOSTED MATERIALS CERTIFIED TO PAS 100 TO RAISED PLANTING BEDS
- Standard: In accordance with PAS 100.
  - Source: Contractor's choice.
    - Product reference: Contractor's choice.
  - Horticultural parameters:
    - pH (1:5 water extract): 7.0-8.7.
    - Electrical conductivity (maximum, 1:5 water extract): 200 mS/m.
    - Moisture content (m/m of fresh weight): 35-55%.
    - Organic matter content (minimum): 25%.
    - Grading (air dried samples): 99% passing 25 mm screen, and 90% passing: 5 mm screen mesh aperture.
    - Carbon:Nitrogen ratio (maximum): 20:1.
  - Texture: Friable.
  - Objectionable odour: None.
  - Compost Certification Scheme certification: Required.
  - Declaration of analysis: Submit.
  - Additional analyses: Not required.
  - Samples: Not required.

### EXECUTION

- 630 DOCUMENTATION FOR IMPORTED TOPSOIL TO RAISED PLANTING BEDS
- 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, clause 6 and Table 1.
  - Number of copies: Two.
- 635 DOCUMENTATION FOR COMPOST AND COMPOSTED MATERIALS TO RAISED PLANTING BEDS
- 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: Required.
  - Number of copies: Two.
- 685 SURPLUS MATERIALS TO BE REMOVED
- Topsoil removal from site: Topsoil remaining after completion of all landscaping work.
  - Subsoil, stones, debris, wrapping material, canes, ties, temporary labelling, rubbish, prunings and other arisings: Remove.

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### 705 HANDLING TOPSOIL

- Standard: In accordance with BS 3882.
- Aggressive weeds: 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 ON ALL PLANTING BEDS

- Standard: In accordance with BS 3882.
- Temporary roads/ surfacing: Remove before spreading topsoil.
- Layers:
  - Depth (maximum): 150 mm.
  - Gently firm each layer before spreading the next.
- Depth after firming and settlement: 75 mm below top of planter wall to allow for application of 50mm mulch.
- Crumb structure: Do not compact topsoil. Preserve a friable texture of separate visible crumbs wherever possible.

### 805 APPLYING SOIL AMELIORANT TO RAISED PLANTING BEDS

- Type: Compost to PAS 100.
- Locations: To all raised planters.
- Fully incorporate into topsoil to a depth of 100mm.
- Application: Spread evenly.
  - Timing: Apply prior to cultivation.
  - Rate: 50mm layer applied to top of soil.
- Timing: Prior to cultivation.
- Other requirements: None.

### 845 APPLYING LOOSE MULCH TO ALL RAISED PLANTERS

- Timing: Immediately after planting.
- Preparation: Ensure that soil is thoroughly moistened, applying water where necessary.
- Coverage of mulch (minimum):
  - Planting beds (depth): 50 mm depth.
  - Trees: 50 mm depth.
  - Container planting: 50 mm depth.
- Finished level of mulch: 30 mm below top of planter wall.

## COMPLETION

### 905 APPLYING MAINTENANCE FERTILIZER TO SOIL TO RAISED PLANTERS

- Duration: Carry out the following operations from completion of seeding/ turfing until the end of the rectification period.
- Time of year: March or April.
- Application: Evenly spread, carefully incorporating below mulch materials.
- Rate: To manufacturer's recommendations.



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### 920 APPLYING MULCH

- Timing: At end of the rectification period.
- Watering: Ensure that soil is thoroughly moistened prior to mulching, applying water where necessary.
- Planting beds: Re-mulch.
  - Depth (minimum): 50 mm.
- Trees: Remulch.
  - Depth (minimum): 50 mm.
- Container planting: Remulch.
  - Depth (minimum): 50 mm.

**Section Revision History**

No.	Purpose	
-	FOR PLANNING	22nd Mar 2018

**Clauses amended in Revision -**

This is the first revision stamp for this section. For all future revision stamps, details of all clauses amended at that revision will be included here.

## Q31 External planting

To be read with Preliminaries/General conditions.

### GENERAL INFORMATION/ REQUIREMENTS

- 118 SOIL CONDITIONS
- Soil for cultivating and planting: Moist, friable and (except in aquatic/ marginal planting) not waterlogged.
  - Frozen or snow covered soil: Give notice before planting. Provide additional root protection. Prevent planting pit sides and bases and backfill materials from freezing.
- 120 CLIMATIC CONDITIONS
- General: Carry out the work while soil and weather conditions are suitable.
    - Strong winds: Do not plant.
- 125 TIMES OF YEAR FOR PLANTING
- Deciduous trees and shrubs: Late October to late March.
  - Conifers and evergreens: September/ October or April/ May.
  - Herbaceous plants (including marginal): September/ October or March/ April.
  - Container grown plants: At any time if ground and weather conditions are favourable.
    - Watering and weed control: Provide as necessary.
  - Dried bulbs, corms and tubers: September/ October.
  - Colchicum (crocus): July/ August.
  - Green bulbs: After flowering in spring.
  - Wildflower plugs: Late August to mid November or March/ April.
  - Aquatic plants: May/ June or September/ October.
- 130 MECHANICAL TOOLS
- Restrictions: Do not use within 100 mm of tree and plant stems.
- 146 WATERING
- Quantity: Wet full depth of topsoil.
  - Application: Even and without damaging or displacing plants or soil.
  - Frequency: assess conditions at each maintenance visit and water if required or adjust irrigation system to suit.
- 150 WATER RESTRICTIONS
- General: If water supply is or is likely to be restricted by emergency legislation, do not carry out planting until instructed. If planting has been carried out, obtain instructions on watering.
- 160 NOTICE
- Give notice before:
    - Setting out.
    - Applying herbicide.
    - Applying fertilizer.
    - Delivery of plants/ trees.
    - Planting shrubs.
    - Planting trees into previously dug pits.
    - Watering.
    - Visiting site during maintenance period.
  - Period of notice: Two working days.

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### 170 SOIL REQUIREMENTS

- Type
  - Planted beds: Planting bed soil system, as section Q28.
  - Tree pits, shrub pits and other backfilling: use displaced topsoil to backfill.
  - External container planting: use displaced topsoil to backfill.
  - Mulch applied after planting: Mulching and top dressing system, as section Q28.

### 200 PLANTS/ TREES - GENERAL

- 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.
- Budded or grafted plants: Bottom worked.
- Root system and condition: Balanced with branch system.
  - Standard: The National Plant Specification.
- Species: True to name.
- Origin/ Provenance: Grown in the United Kingdom for at least one growing season, unless otherwise approved (plant passports must be provided for any imported plants).  
Definition: Origin and Provenance have the meaning given in the National Plant Specification.

### 215 PLANTS/ TREES - SPECIFICATION CRITERIA

- Name, forms, dimensions, provenance and other criteria: As scheduled and defined in the National Plant Specification (available on CS Design Software Limited's website).

### 225 BULBS/ CORMS/ TUBERS

- Condition: Firm, entire, not dried out or shrivelled.
- Health: Free from pests, diseases and fungus.
- Handling: Remove from packaging immediately.
- Storage: Permitted only when necessary.
  - Location: Well ventilated, dark, covered, rodent proof container, away from exhausts and fruit.
  - Duration: Minimum period.
  - Temperature: 18-21°C.

### 235 CONTAINER GROWN PLANTS/ TREES

- Growing medium: With adequate nutrients for plants to thrive until permanently planted.
- Plants: Centred in containers, firmed and well watered.
- Root growth: Substantially filling containers, but not root bound, and in a condition conducive to successful transplanting.
- Hardiness: Grown in the open for at least two months before being supplied.
- Containers: With holes adequate for drainage when placed on any substrate commonly used under irrigation systems.

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### 245 LABELLING AND INFORMATION

- General: Provide each plant/ tree or group of plants/ trees of a single species or cultivar with supplier's labelling for delivery to site, showing:
  - Full botanical name.
  - Total number.
  - Number of bundles.
  - Part bundles.
  - Supplier's name.
  - Employer's name and project reference.
  - Plant specification, in accordance with scheduled National Plant Specification categories.
- Additional information: Submit on request:
  - Country of origin;
  - Date supplied and consignment details or reference; and
  - Type of container.

### 260 PLANT/ TREE SUBSTITUTION

- Plants/ trees unobtainable or known to be likely to be unobtainable at time of ordering: Submit alternatives, stating:
  - Price.
  - Difference from specified plants/ trees.
- Approval: Obtain before making any substitution.

### 265 PLANT HANDLING, STORAGE TRANSPORT AND PLANTING

- Standard: To CPSE 'Handling and establishing landscape plants'.
- Frost: Protect plants from frost.
- Handling: Handle plants with care. Protect from mechanical damage and do not subject to shock, e.g. by dropping from a vehicle.
- Plant packaging: Coextruded polyethylene bags with black interior and white exterior.
- Packaging of bulk quantities: Pallets or bins sealed with polyethylene and shrink wrapped.
- Planting: Upright or well balanced with best side to front.

### 280 TREATMENT OF TREE WOUNDS

- Cutting: Keep wounds as small as possible.
  - Cut cleanly back to sound wood using sharp, clean tools.
  - Leave branch collars. Do not cut flush with stem or trunk.
  - Set cuts so that water will not collect on cut area.
- Fungicide/ Sealant: Do not apply unless instructed.

### 290 SURPLUS MATERIAL

- Subsoil, stones, debris, wrapping material, canes, ties, temporary labelling, rubbish, prunings and other arisings: Remove.

## **PLANT CONTAINERS**

### 292 PREFABRICATED PLANT CONTAINERS

- Manufacturer: Contractor's choice.
  - Product reference: Contractor's choice.
- Material: plastic planter liners.
- Dimensions/ Shape: to fit within the steel planters designed by the Architect.
- Lining: n/a.
- Accessories: Automatic irrigation system as section S14.

### **PREPARATION OF PLANTING BEDS/ PLANTING MATERIALS**

#### **385 MULCH MATTING/ GEOTEXTILE FABRIC TO SEPERATE SOIL/DRAINAGE LAYERS IN RAISED PLANTERS**

- Manufacturer: Contractor's choice.
  - Product reference: Contractor's choice.
- Type: porous fleece membrane.
- Recycled content: Submit proposals.
- Timing: Lay before planting.
- Watering: Water soil thoroughly before laying.
- Laying: In close contact with soil surface. Lap or butt joints as recommended by manufacturer, with no gaps.
- Planting: Cut neat slits or flaps. Refit closely around plant stems.
- Overlay: Not required.

### **PLANTING SHRUBS/ HERBACEOUS PLANTS/ BULBS**

#### **405 SHRUB PLANTING PITS**

- Timing: Excavate 1-2 days (maximum) before planting.
- Sizes: Wide enough to accommodate roots when fully spread and 75 mm deeper than root system.
- Pit bottom improvement Not required.

#### **445 PLANTING BULBS/ CORMS/ TUBERS**

- Depth: Top of bulb/ corm/ tuber at a depth of approximately twice its height, base in contact with bottom of hole.
- Backfilling: Finely broken soil. Lightly firm to existing ground level.
- Naturalized planting in existing grassed areas:
  - Scattering: Random. Plant bulbs/ corms/ tubers where they fall.
  - Planting: Neatly remove a plug of turf and replace after planting.

#### **470 FORMAL HEDGES**

- Shrubs for hedges: Consistent in species, cultivar and clone to ensure a uniform hedge.
- Planting: In trenches large enough to take full spread of roots. Set out plants evenly.

#### **480 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.
- Top dressing: Ornamental composted bark mulch.
  - Depth: 50 mm.

### **PLANTING TREES**

#### **500 TREE PLANTING**

- Standard: Prepare trees and transplant in accordance with BS 8545.

#### **502 ANTIDESICCANT FOR CONIFERS/ EVERGREENS**

- Manufacturer: Contractor's choice.
  - Product reference: Contractor's choice.
- Application: Dip or thoroughly spray before delivering to site. Spray again soon after planting.
  - Do not apply in wet or frosty weather.
  - Ensure full coverage of underside of foliage.

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### 505 TREE PITS

- Sizes: 75 mm wider than the root spread, and same depth as the rootball.
- Sloping ground: Maintain horizontal bases and vertical sides with no less than minimum depth throughout.
- Excavated material: stockpile for backfilling.
- Pit bottoms: Excavate with slightly raised centre: take care not to disturb the drainage board or waterproofing.
  - Treatment: Not required.
- Pit sides: Scarify.
- Backfilling material: Excavated material from tree pit.

### 526 UNDERGROUND GUYING FOR STANDARD TREES.

- Manufacturer: Platipus.
  - Product reference: Contractor's choice.
- Anchoring system: 3 no sleeper dead-man anchors.
- Installation: Ensure tree is positioned correctly and vertically prior to tightening guy line tensioners.

### **PROTECTING/ MAINTAINING/ MAKING GOOD DEFECTS**

### 710 MAINTENANCE

- Duration: Carry out the operations in the following clauses from completion of planting until the end of the rectification period.
- Frequency of maintenance visits: In accordance with the agreed maintenance schedule.

### 720 FAILURES OF PLANTING

- Defects due to materials or workmanship not in accordance with the Contract: Plants/ trees/ shrubs that have failed to thrive.
  - Exclusions: Theft or malicious damage after completion.
  - Rectification: 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: During the next suitable planting season.

### 740 CLEANLINESS

- Soil and arisings: Remove from hard surfaces and grassed areas.
- General: Leave the works in a clean tidy condition at completion and after any maintenance operations.

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### 750 PLANTING MAINTENANCE GENERALLY

- Weed control: Maintain weed free area around each tree and shrub.
  - Diameter (minimum): The larger of 1 m or the surface of original planting pit.
  - Keep planting beds clear of weeds: By hand weeding.
- 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.
- Firming up: Gently firm loosened soil around trees/ shrubs. Straighten leaning trees/ shrubs.
- Trees: Spray crown when in leaf during warm weather.
  - Timing: After dusk.
- Tree accessories: Check condition of stakes, ties, guys, guards and irrigation and ventilation systems.
  - Broken or missing items: Replace.
  - Loose stakes: Re-firm in the ground or replace as necessary to provide support to the tree.
  - Loose guys: Re-firm anchor points and adjust as necessary to provide support to the tree.
  - Ties: Adjust to accommodate growth and prevent constriction or abrasion.
  - Damage to bark: Cut back neatly with sharp knife. Prevent further damage.
  - Frequency of checks: At each scheduled maintenance visit.
- Watering: As required for healthy establishment, depending on weather conditions and the functioning of the irrigation system.

### 760 PLANTING MAINTENANCE - PRUNING

- General: Prune to promote healthy growth and natural shape.
  - Dead, dying, diseased wood and suckers: Remove.
  - Timing: As appropriate to the species.
  - Trees: Favour a single central leading shoot.
- Arisings: Remove.

### 790 FINAL MULCHING

- Timing: At end of the maintenance period.
- Watering: Ensure that soil is thoroughly moistened prior to remulching, applying water where necessary.
- Planting beds: Remulch.
  - Depth (minimum): 50 mm.
- Trees: Remulch.
  - Depth (minimum): 50 mm.



**Section Revision History**

No.	Purpose	
-	FOR PLANNING	22nd Mar 2018

**Clauses amended in Revision -**

This is the first revision stamp for this section. For all future revision stamps, details of all clauses amended at that revision will be included here.

## Q35 Landscape maintenance

To be read with Preliminaries/ General conditions.

### GENERALLY

- 105 MAINTENANCE OBJECTIVES
- Location: Raised planters.
    - Duration: to the end of the rectification period.
  - Aims: Enhanced landscape quality.
  - Restrictions: Access times and other restrictions to be agreed with the client.
  - Results: Adequate establishment in accordance with the grant scheme contract to produce a high quality garden landscape.
- 110 NOTICE
- Give notice before:
    - Application of herbicide.
    - Application of fertilizer.
    - Watering.
    - Each site maintenance visit.
  - Period of notice: 2 days.
- 130 REINSTATEMENT
- Damage or disturbance to soil structure, planting, grass, fencing, hard landscaping, structures or buildings: Reinstate to original condition.
- 157 WATERING
- Supply: Irrigation system from potable mains water  
Check irrigation system on each maintenance visit and adjust to ensure suitable functioning  
Apply additional hand watering to resolve short-term problems if required  
Compacted soil: Loosen or scoop out, to direct water to rootzone.
  - Frequency: As necessary for the continued thriving of all planting.
- 160 WATER RESTRICTIONS
- General: If 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.
- 170 DISPOSAL OF ARISING
- General: Unless specified otherwise, dispose of arisings as follows:
    - Biodegradable arisings: Remove to recycling facility.
    - Grass cuttings: Remove to recycling facility.
    - Tree roots and stumps: Remove from site.
    - Shrub and tree prunings: Remove to recycling facility.
    - Litter and nonbiodegradable arisings: Remove from site.
- 180 CHIPPING OR SHREDDING
- General: Not permitted on site.

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### 181 MECHANICAL EQUIPMENT

- General: Minimize.
- Prohibited equipment: Chippers.
- Timing: Use of mechanical equipment allowed between the hours of 10:00 am and 4:00 pm only.

### 190 LITTER

- Extraneous rubbish not arising from the contract work: Collect and remove from site.

### 197 CLEANLINESS

- Soil and arisings: Remove from hard surfaces.
- General: Leave the works in a clean, tidy condition at completion and after any maintenance operations.

## **FLOWER BEDS/ SEASONAL BEDDINGS**

### 460 BEDS OF PERENNIALS OR PERENNIALS AND ANNUALS

- Plant supports: Stake and tie plants using peony rings.
  - Length: To suit plant height.
  - Maintain throughout the growing season.
- Gaps in planting: Refill by replanting.
- Watering:
  - New plants: Before and after planting out.
  - Ongoing: As necessary for the continued thriving of all planting.
- Operations at end of growing season:
  - Trim: Older flowering stems of herbaceous perennials.
  - Remove: Redundant plant supports, litter, debris and arisings.
  - Cultivate: Fork over the soil, taking care not to cause undue disturbance to plants.
  - Top dress: Apply fertiliser and 50mm mulch each season.

### 470 FLOWER BEDS GENERALLY

- Operations:
  - Remove: Dead flower heads, fallen leaves, litter and debris.
  - Weeds: Thoroughly hand weed.
  - Cultivate: Lightly hoe.
  - Trim: Clip grass edges.
- Fungicide: Not required.
- Insecticide: Not required.

## **SHRUBS/TREES/HEDGES**

### 500 ESTABLISHMENT OF NEW PLANTING

- Duration: to end of the rectification period.
- Weed control:
  - Method: Keep planting beds clear of weeds by hand weeding and maintaining the full thickness of mulch.
  - Area: Maintain a weed free area around each tree and shrub, minimum diameter the larger of 1 m or the surface of the original planting pit.
- Soil condition: Fork over beds to keep soil loose, with gentle cambers and no hollows. Do not reduce depth or effect of mulch.
- Watering: irrigation system.

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- 502 ESTABLISHMENT OF NEW PLANTING - FERTILIZER
- Time of year: March or April.
  - Type: Slow release.
  - Spreading: Spread evenly. Carefully lift and replace any mulch materials.
    - Application rate: As manufacturer's recommendations.
- 520 REFIRMING OF TREES AND SHRUBS
- Timing: After strong winds, frost heave and other disturbances.
  - Refirming: Tread around the base until firmly bedded.
  - Collars in soil at base of tree stems, created by tree movement: Break up by fork, avoiding damage to roots. Backfill with topsoil and refirm.
- 540 PRUNING GENERALLY
- Pruning: In accordance with good horticultural and arboricultural practice.
    - Removing branches: Do not damage or tear the stem or bark.
    - Wounds: Keep as small as possible and cut cleanly back to sound wood.
    - Cutting: Make cuts above and sloping away from an outward facing healthy bud, angled so that water will not collect on cut area.
    - Larger branches: Prune neither flush nor leaving a stub, but using the branch bark ridge or branch collar as a pruning guide.
  - Appearance: Thin, trim and shape each specimen appropriately to species, location, season, and stage of growth, leaving a well balanced natural appearance.
  - Tools: Use clean sharp secateurs, hand saws or other approved tools. Trim off ragged edges of bark or wood with a sharp knife.
  - Disease or infection: Give notice if detected.
  - Growth retardants, fungicide or pruning sealant: Do not use unless instructed.
- 605 TRIMMING SLOWLY ESTABLISHING HEDGES
- Operations:
    - Timing: Cut back hard in June and September to encourage bushy growth down to ground level.
    - Form: Allow to reach planned dimensions only by gradual degrees, depending on growth rate and habit.
- 620 REMOVAL OF DEAD PLANT MATERIAL
- Operations: At the end of the growing season, check all shrubs and remove all dead foliage, dead wood, and broken or damaged branches and stems.
- 635 REINSTATEMENT OF SHRUB/ HERBACEOUS AREAS
- Dead and damaged plants: Remove.
  - Mulch/ matting materials:
    - Carefully move to one side and dig over the soil, leaving it fit for replanting.
    - Do not disturb roots of adjacent plants.
  - Replacement plants:
    - Use pits and plants: To original specification or to match the size of adjacent or nearby plants of the same species, whichever is the greater.
    - Additional requirements: None.
  - Dressing: Slow release fertilizer:
    - Type: Organic.
    - Application rate: As manufacturer's recommendations.
- 645 WEED CONTROL GENERALLY
- Weed tolerance: Weed to clear ground at each maintenance visit.
  - Adjacent plants, trees and grass: Do not damage.

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- 650 HAND WEEDING
- General: Remove weeds entirely, including roots.
  - Disturbance: Remove the minimum quantity of soil, and disturb plants, bulbs and mulched surfaces as little as possible.
  - Completion: Rake area to a neat, clean condition.
  - Mulch: Reinstate to original depth.
- 658 HERBICIDE
- DO NOT USE.
- 680 SOIL AERATION
- Compacted soil surfaces:
    - Prick up: To aerate the soil of root areas and break surface crust.
    - Size of lumps: Reduce to crumb and level off.
    - Damage: Do not damage plants and their roots.
- 685 SOIL LEVEL ADJUSTMENT
- Level of soil/mulch at edges of beds: Reduce to 50 mm below adjacent grass or hard surface.
    - Arisings (if any): Spread evenly over the bed.
- 690 MAINTENANCE OF LOOSE MULCH
- Thickness (minimum): 50 mm.
    - Top up: Twice per year.
  - Mulch spill on adjacent areas: Remove weeds and rubbish and return to planted area.
  - Weeding: Remove weeds growing on or in mulch by hand weeding.
- 695 FERTILIZING ESTABLISHED TREES AND SHRUBS
- Time of year: During April or May.
  - Type of fertilizer: Slow release.
  - Application: Spread evenly.
    - Rate: As manufacturer's recommendations.