

# Citywest Cemetery

## Landscape Architect's Specifications

RFI Stage SDCC Reg. Ref. SD22A/0457

June 2023

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## CONTROL SHEET

Project No.	1872
Project Name	Citywest Cemetery
Filename:	1872_LS
Document Title:	Landscape Architect's Specifications

## Version Control

Rev. No.	Issue Status	Date	Prepared By	Checked By
0	Planning-RFI	30/06/23	VI	JW

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## Q28

### Topsoil and soil ameliorants

#### System outline - Not Used

#### Products

##### 300 Preparation materials generally

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1. Purity: Free of pests and disease.
2. 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.
3. Contamination: Do not use topsoil contaminated with subsoil, rubbish or other materials that are:
  - 3.1. Corrosive, explosive or flammable.
  - 3.2. Hazardous to human or animal life.
  - 3.3. Detrimental to healthy plant growth.
4. Subsoil: In areas to receive topsoil or planting media, do not use subsoil contaminated with the above materials.
5. Objectionable odour: None.
6. 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

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1. Materials: River and canal dredgings  
Peat &/or products containing peat

##### 355 Organic materials

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1. Description:
2. Type: Bark
3. Source: Contractor's choice
  - 3.1. Product reference: Contractor's choice

#### Execution

##### 635 Documentation for compost and composted materials

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1. Description:
2. Timing: Submit at handover.
3. Contents
  - 3.1. Full description of all compost components.
  - 3.2. Record of source for all compost components.
  - 3.3. Analyst's report for each test carried out.
  - 3.4. Declaration of compliance: in accordance with PAS 100 and BSI PD CR 13456.
  - 3.5. Quality Compost Protocol certification: Required
4. Number of copies: 2no.

##### 650 Notice

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1. Give notice before
  - 1.1. Setting out.

- 1.2. Spreading topsoil.
- 1.3. Applying herbicide.
- 1.4. Applying fertilizer.
- 1.5. Visiting site during maintenance period.
2. Period of notice: 3no. working days

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### **655 Mechanical tools**

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1. Restrictions: Do not use within 100 mm of tree and plant stems. Do not damage adjacent planting.

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### **660 Grading subsoil for:**

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1. Description:
2. Standard: In accordance with BS 8601.
3. General: Grade to smooth flowing contours to achieve specified finished levels of topsoil.
4. Areas of thicker topsoil: Excavate locally.
5. Avoid compaction.
6. Excess subsoil: Remove.

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### **670 Inspecting formations**

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1. Give notice: Before spreading topsoil for site wide.
2. Notice period:

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### **680 Surplus topsoil to be retained**

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1. Generally: Spread and level on site:
  - 1.1. Locations:
  - 1.2. Protected areas: Do not raise soil level within root spread of trees that are to be retained.

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### **685 Surplus materials to be removed**

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1. Topsoil removal from site: Topsoil remaining after completion of all landscape work.
2. Subsoil, stones, debris, wrapping material, canes, ties, temporary labelling, rubbish, prunings and other arisings: Remove.

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### **690 Topsoil storage heaps**

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1. Location: Submit proposals
2. Height (maximum): 1500 mm.
3. Width (maximum): 3000 mm.
  - 3.1. Formation: Loose tip and shape from the side only, without running machinery on the heap at any time.
4. Protection:
  - 4.1. Do not place any other material on top of storage heaps.
  - 4.2. Do not allow construction plant to pass over storage heaps.
  - 4.3. Prevent compaction and contamination, by fencing and covering as appropriate.

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### **700 Grading of topsoil**

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1. Topsoil condition: Reasonably dry and workable.
2. Contours: Smooth and flowing, with falls for adequate drainage.
  - 2.1. Hollows and ridges: Not permitted.
3. Give notice: If required levels cannot be achieved by movement of existing soil.

## **705 Handling topsoil**

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1. Standard: In accordance with BS 3882.
2. Aggressive weeds: Give notice and obtain instructions before moving topsoil.
3. Plant: Select and use plant to minimize disturbance, trafficking and compaction.
4. Contamination: Do not mix topsoil with:
  - 4.1. Subsoil, stone, hardcore, rubbish or material from demolition work.
  - 4.2. Other grades of topsoil.
5. Multiple handling: Keep to a minimum. Use or stockpile topsoil immediately after stripping.
6. Wet conditions: Handle topsoil in the driest condition possible. Do not handle during or after heavy rainfall, or when the moisture content is greater than the plastic limit.

## **710 Spreading topsoil on:**

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1. Description:
2. Standard: In accordance with BS 3882.
3. Temporary roads/ surfacing: Remove before spreading topsoil.
4. Layers
  - 4.1. Depth (maximum): 150 mm.
  - 4.2. Gently firm each layer before spreading the next.
5. Depth after firming and settlement: 450mm
6. Crumb structure: Do not compact topsoil. Preserve a friable texture of separate visible crumbs wherever possible.

## **710A Spreading topsoil on: Tree pits**

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1. Description:
2. Standard: In accordance with BS 3882.
3. Temporary roads/ surfacing: Remove before spreading topsoil.
4. Layers
  - 4.1. Depth (maximum): 150 mm.
  - 4.2. Gently firm each layer before spreading the next.
5. Depth after firming and settlement: 1000mm
6. Crumb structure: Do not compact topsoil. Preserve a friable texture of separate visible crumbs wherever possible.

## **715 Loose tipping of topsoil**

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1. Standard: In accordance with BS 3882.
2. 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.

## **720 Finished levels of topsoil after settlement**

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1. In relation to adjoining paving, kerbs or hard surfaces: 75mm
2. In relation to dpc of adjoining buildings: Not less than 150 mm below.
3. In relation to adjacent grass areas: 50 mm
4. Seeded areas: Extend cultivation into existing adjacent grassed areas sufficient to ensure full marrying in of levels.
5. Sportsfields: To even levels and within the following permitted deviations:
  - 5.1. From levels or gradients shown on drawings:  $\pm 75$  mm.
  - 5.2. From line between boning rods 30 m apart:  $\pm 25$  mm.

6. Within root spread of existing trees and shrubs to be retained: Do not dig or cultivate.
7. Adjoining soil areas: Marry in.
8. Thickness of turf or mulch: Included.

### **750 Site-made topsoil**

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1. Description:
2. Quantity: Provide as necessary to make up any deficiency of topsoil existing on site and to complete the work.
3. Base material: Site 1 topsoil
4. Additional materials: 20% by volume of suitable compost as approved. 10% by volume bio-char.
5. Crumb structure: Made up of discernible crumbs.
6. Particles
  - 6.1. Size in any dimension (maximum): 50 mm
  - 6.2. Large particle content by dry weight (maximum): 10%
7. Organic content (by dry weight): 45-50%
8. Nutrient content: Minimum index values for nitrogen, phosphorus, potassium and magnesium to be as for BS 3882 multipurpose topsoil.

### **810 Applying compost**

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1. Description: 20% compost to be applied together with topsoil. 1m<sup>3</sup> of topsoil conditioner will service and area of 20m<sup>2</sup> when spread to a depth of 50mm.
2. Application rate for trees and shrubs:
  - 2.1. Timing: Apply prior to cultivation.
3. Application rate for grass:
  - 3.1. Timing: Apply prior to cultivation.
4. Application rate for planters:
  - 4.1. Timing: Apply prior to cultivation.
5. Other requirements:

### **820 Applying general fertilizer**

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1. Description:
2. Application: Spread evenly, carefully incorporating below mulch materials.
  - 2.1. Timing: Immediately before cultivation.
  - 2.2. Application rate: 10g/m<sup>2</sup>
  - 2.3. Other requirements:

### **825 Applying fertilizer to proposed grass areas**

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1. Description:
2. Application: Before final cultivation and three to five days before seeding/ turfing.
3. Coverage:
4. Spread evenly, in transverse directions.
  - 4.1. Rate:

### **845 Applying loose mulch**

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1. Description:
2. Timing: after planting is completed
3. Preparation: clear all weeds and soil as per proposed levels

4. Coverage of mulch (minimum)
  - 4.1. Planting beds (depth): 50mm depth
  - 4.2. Trees: in a circular area of 500mm radius measured from the tree stem.
  - 4.3. Container planting: 50mm depth.
5. Finished level of mulch: 30mm below adjacent or paved area.

## **Completion**

### **920 Applying mulch**

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1. Timing: at end of the maintenance period.
2. Watering: Ensure that soil is thoroughly moistened prior to mulching, applying water where necessary.
3. Planting beds: Re-mulch.
  - 3.1. Depth (minimum): 50mm
4. Trees: Remulch.
  - 4.1. Depth (minimum): 75mm
5. Container planting: Remulch.
  - 5.1. Depth (minimum): 50mm

Ω End of Section



## Q30

### Seeding/ turfing

#### General information/requirements

##### 120 Climatic conditions

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1. General: Carry out the work while soil and weather conditions are suitable.  
-Strong winds: Do not plant.

##### 145 Watering

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1. Quantity: Wet full depth of topsoil.
2. Application: Even and without displacing seed, seedlings or soil.
3. Frequency: As necessary to ensure the establishment and continued thriving of all seeding/turfing.

##### 146 Watering

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1. Quantity: Wet full depth of topsoil.
2. Application: Even and without displacing seed, seedlings or soil.
3. Frequency: a detailed programme if works will be agreed with contractor prior to maintenance.

##### 150 Water restrictions

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1. Timing: If water supply is or is likely to be restricted by emergency legislation do not carry out seeding/turfing until instructed. If seeding/turfing has been carried out, obtain instructions on watering.

##### 160 Notice

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1. Give notice before
  - 1.1. Setting out.
  - 1.2. Applying herbicide.
  - 1.3. Applying fertilizer.
  - 1.4. Preparing seed bed.
  - 1.5. Seeding or turfing.
  - 1.6. Visiting site during maintenance period.
2. Period of notice: 3no. working days.

##### 170 Setting out

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1. Boundaries: Mark clearly.
2. Delineation: In straight lines or smoothly flowing curves as shown on drawings.

#### Preparation

##### 210 Herbicide

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1. Description:
2. Type: Suitable for suppressing perennial weeds.
3. Timing: Allow fallow period before cultivation.
  - 3.1. Duration: As per manufacturer's recommendations.

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## 212 Seed bed cleaning before sowing

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1. Description: Operations: As per seed supplier's recommendations.
2. Operations:

## Seeding

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### 310 Grass seed

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1. Description:
2. Mixture: Green-Hay seeding.
3. Application rate: As per seed supplier's recommendations.

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### 312 Wildflower seed mixture

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1. Description:
2. Supplier: Design by Nature
  - 2.1. Mixture reference: EC03 Woodland Wild Flower Mixture and DW01 Short Cut Floral Lawn Mixture
3. Origin of each species (as defined in Flora Locale's Code of practice for collectors, growers and suppliers of native flora): Local origin
4. Application rate: Supplier's recommendations.

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### 319 Quality of seed

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1. Description:
2. Freshness: Produced for the current growing season.
3. Certification: Blue label certified varieties.
  - 3.1. Standard: EC purity and germination regulations.
  - 3.2. Official Seed Testing Station certificate of germination, purity and composition: Submit when requested.
4. Samples of mixtures: Submit when requested.

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### 322 Quality of wildflower seed

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1. Description:
2. Standard: In accordance with Flora Locale's 'Code of practice for collectors, growers and suppliers of native flora'.
3. Germination testing: Not required
4. Freshness of seed: Germination test certification no greater than 2 years old
5. Samples: Submit when requested.

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### 336 Wildflower sowing season

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1. Wildflower seed generally: March or May or August to October.

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### 352 Edges to seeded areas

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1. Description:
2. Timing: After seeded areas are well established.
3. Edges: Clean straight lines or smooth curves.
  - 3.1. Mulch and soil: Draw back to permit edging.
4. Arisings: Remove.
5. Completion: Respread soil and mulch.

## **Turfing - Not Used**

### **Protecting/cutting**

#### **540 First cut of Wildflower Meadow**

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1. Description:
2. Height of initial growth: 75mm.
3. Preparation:
4. Debris and litter: Remove.
  - 4.1. Stones and earth clods larger than 25 mm in any dimension: Remove
5. Height of first cut: 75mm
6. Mower type: Strimmer, rotary mower, ride-on mower, tractor pulled gang mower.
7. Arisings: To be gathered at every cut and disposed of in designated areas off-site.

#### **590 Cleanliness**

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

### **Maintenance**

#### **610 Failures of seeding/ turfing**

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1. Duration: Carry out the following operations from completion of seeding/ turfing until: the end of the rectification period.
2. Defective materials or workmanship: Areas that have failed to thrive.
  - 2.1. Exclusions: Theft or malicious damage.
3. Method of making good: Recultivation and reseeding/ returfing.
4. Timing of making good: The next suitable planting season

#### **650 Maintaining grassed areas with perennial wildflowers**

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1. Duration: Carry out the following operations from completion of seeding/ turfing until: the end of the rectification period.
2. Preparation: Before each cut remove all litter and debris.
3. Height and frequency of cut in first growing season
  - 3.1. Time of first cut: March/ April
  - 3.2. Height of first cut: 75 mm
  - 3.3. Frequency of subsequent cutting (minimum): 3 no. times during the growing season, in May, July and September.
  - 3.4. Height of growth permitted (maximum): 125 mm
4. Height and frequency of cut in second growing season
  - 4.1. Time of cut: October, March and August
  - 4.2. Height of cut: 75 mm
5. Trimming: All edges.
  - 5.1. Arisings: Remove.
6. Watering: When instructed

## **660 Maintaining grassed areas with annual wildflowers**

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1. Duration: Carry out the following operations from completion of seeding/ turfing until: the end of the rectification period.
2. Preparation: Before each cut remove all litter and debris.
3. Timing of first cut: After flowers have set seed.
4. Height of first cut: 75 mm
5. Subsequent cutting: As necessary, so the height of growth does not exceed 125mm.
  - 5.1. Height of cut: 75 mm
6. Trimming: All edges.
  - 6.1. Arisings: Remove
7. Watering: When instructed

Ω End of Section

## Q31

### External planting

#### General information/ requirements

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#### 118 Soil conditions

1. Soil for cultivating and planting: Moist, friable and (except in aquatic/ marginal planting) not waterlogged.
2. Frozen or snow covered soil: Give notice before planting. Provide additional root protection. Prevent planting pit sides and bases and backfill materials from freezing.

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#### 120 Climatic conditions

1. General: Carry out the work while soil and weather conditions are suitable.
  - 1.1. Strong winds: Do not plant.

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#### 125 Times of year for planting

1. Deciduous trees and shrubs: Late October to late March.
2. Conifers and evergreens: September/ October or April/ May.
3. Herbaceous plants (including marginal): September/ October or March/ April.
4. Container grown plants: At any time if ground and weather conditions are favourable.
  - 4.1. Watering and weed control: Provide as necessary.
5. Dried bulbs, corms and tubers: September/ October.
6. Colchicum (crocus): July/ August.
7. Green bulbs: After flowering in spring.
8. Wildflower plugs: Late August to mid November or March/ April.
9. Aquatic plants: May/ June or September/ October.

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#### 130 Mechanical tools

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

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#### 145 Watering

1. Quantity: Wet full depth of topsoil.
2. Application: Even and without damaging or displacing plants or soil.
3. Frequency: As necessary to ensure establishment and continued thriving of planting.

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#### 146 Watering

1. Quantity: Wet full depth of topsoil.
2. Application: Even and without damaging or displacing plants or soil.
3. Frequency: A detailed programme of works will be agreed with Contractor prior to maintenance operations.

## **150 Water restrictions**

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1. 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**

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1. Give notice before
  - 1.1. Setting out.
  - 1.2. Applying herbicide.
  - 1.3. Applying fertilizer.
  - 1.4. Delivery of plants/ trees.
  - 1.5. Planting shrubs.
  - 1.6. Planting trees into previously dug pits.
  - 1.7. Watering.
  - 1.8. Visiting site during maintenance period.
2. Period of notice: 3no. working days

## **170 Soil requirements**

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1. Type
  - 1.1. Planted beds: as per Q28 Topsoil and soil ameliorants
  - 1.2. Tree pits, shrub pits and other backfilling: as per Q28 Topsoil and soil ameliorants
  - 1.3. External container planting:
  - 1.4. Mulch applied after planting: as per Q28 Topsoil and soil ameliorants

## **200 Plants/ Trees – general**

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1. Condition: Materially undamaged, sturdy, healthy and vigorous.
2. Appearance: Of good shape and without elongated shoots.
3. Hardiness: Grown in a suitable environment and hardened off.
4. Health: Free from pests, diseases, discoloration, weeds and physiological disorders.
5. Budded or grafted plants: Bottom worked.
6. Root system and condition: Balanced with branch system.
  - 6.1. Standard: The relevant parts of BS 3936
7. Species: True to name.
8. Origin/ Provenance:
9. Definition: Origin and Provenance have the meaning given in the National Plant Specification.

## **215 Plants/ Trees – specification criteria**

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1. Name, forms, dimensions, provenance and other criteria: As scheduled and defined in the National Plant Specification (available on CS Design Software Limited's website).
2. Please refer to drawing no. 1872\_PL\_P\_04

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**216 Plants/ Trees – specification criteria**

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1. Name, forms, dimensions and other criteria: To the relevant part of BS 3936.
2. Please refer to drawing no. 1872\_PL\_P\_04

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**235 Container grown plants/ Trees**

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1. Growing medium: With adequate nutrients for plants to thrive until permanently planted.
2. Plants: Centred in containers, firmed and well watered.
3. Root growth: Substantially filling containers, but not root bound, and in a condition conducive to successful transplanting.
4. Hardiness: Grown in the open for at least two months before being supplied.
5. Containers: With holes adequate for drainage when placed on any substrate commonly used under irrigation systems.
6. Please refer to drawing no. 1872\_PL\_P\_04

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**245 Labelling and information**

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1. 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:
  - 1.1. Full botanical name.
  - 1.2. Total number.
  - 1.3. Number of bundles.
  - 1.4. Part bundles.
  - 1.5. Supplier's name.
  - 1.6. Employer's name and project reference.
  - 1.7. Plant specification, in accordance with scheduled National Plant Specification categories.
2. Additional information: Submit on request: .....

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**246 Labelling and information**

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1. Standard: To BS 3936.

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**255 Plants/ Trees reserved at supplier's premises**

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1. Types/ Species: to be discussed with the Landscape sub-contractor if necessary
2. Predelivery inspection: Give notice.
3. Labelling: Identify inspected plants/ trees as reserved for use on this project.

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**260 Plant/ Tree substitution**

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

## **265 Plant handling, storage transport and planting**

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1. Standard: To CPSE 'Handling and establishing landscape plants'.
2. Frost: Protect plants from frost.
3. Handling: Handle plants with care. Protect from mechanical damage and do not subject to shock, e.g. by dropping from a vehicle.
4. Plant packaging: as per nursery's specifications.
5. Packaging of bulk quantities: as per nursery's specifications.
6. Planting: Upright or well balanced with best side to front.

## **280 Treatment of tree wounds**

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

## **290 Surplus material**

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

## **Preparation of planting beds/ planting materials**

### **305 Weed control**

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1. Description:
2. Locations: All planting areas
3. General: Prevent weeds from seeding and perennial weeds from becoming established, in accordance with the Environment Agency 'Managing Japanese knotweed on development sites. The knotweed code of practice'.



## Planting shrubs/ herbaceous plants/ bulbs

### 401 Regular plant layout

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1. Description:
2. Spacing:
3. Density: As per plant schedule

### 405 Shrub planting pits

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1. Timing: Excavate 1-2no. days (maximum) before planting.
2. Sizes: Wide enough to accommodate roots when fully spread and 75 mm deeper than root system.
3. Pit bottom improvement : Break up to a depth of 150 mm, incorporating soil ameliorant/ conditioner at 50 g/m<sup>2</sup>..

### 470 Formal hedges

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

### 471 Naturalized hedges

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1. Planting: In trenches large enough to take full spread of roots. Set out plants evenly.

## Planting trees

### 500 Tree planting

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1. Standard: Prepare trees and transplant in accordance with BS 8545 and BS 4428.

### 505 Tree pits

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1. Sizes: refer to Landscape Masterplan drawing
2. Sloping ground: Maintain horizontal bases and vertical sides with no less than minimum depth throughout.
3. Excavated material: Remove arisings
4. Pit bottoms: Excavate with slightly raised centre: Break up to a depth of 150mm.
  - 4.1. Treatment:
5. Pit sides: Scarify.
6. Backfilling material: Mulching and top-dressing system, as per Q28 Topsoil and soil ameliorants.

### 535 Tree stakes

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1. Stakes: Softwood, peeled chestnut, larch or oak, straight, free from projections and large or edge knots and with pointed lower end.
  - 1.1. Preservative treatment: Not required
2. Stake size (minimum): 75mm
3. Stake length (minimum): 1800mm

### **550 Double staking for trees**

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1. Description:
2. Staking
  - 2.1. Position: Either side of tree position and perpendicular to wind direction.
  - 2.2. Driving: Vertically at least 300 mm into bottom of pit before planting.
  - 2.3. Backfilling: Consolidate material around stake.
  - 2.4. Firming: Sufficiently firm to prevent movement of the rootball/ rootstock.
3. Height of stakes: 600mm
4. Horizontal bracing: Crossbar
  - 4.1. Fixing:
5. Ties: Adjustable tree tie - securely fixed to crossbar.
6. Tying:
7. Nails for fixing ties, belts and webbing: To BS 1202-1, galvanized, minimum 25 mm long and with 10 mm diameter heads.
8. Nails for fixing cross bars:

### **576 Tree pit surfacing – loose fill**

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1. Surfacing material: as per Q28 Topsoil and soil ameliorants.
2. Area: 600mm radius circle.
3. Depth: 75mm
4. Watering: Water soil thoroughly before laying.
5. Installation: Ensure the base of the tree stem is kept free from loose filled material.

### **Woodland/ matrix/ buffer zone planting**

### **600 Woodland work generally**

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1. Services: Check for below and above ground services, including land drainage, in the vicinity. Give notice if they may be affected and obtain instructions before proceeding.
2. Safety: Comply with Arboriculture and Forestry Advisory Group Safety leaflets.

### **617 Removing trees and hedges**

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1. Identification: Clearly mark trees and hedges to be removed.
2. Work near retained trees: Where canopies overlap, take down trees carefully in small sections to avoid damage to adjacent trees that are to be retained.
3. Arisings: Remove.
4. Tree stumps:

### **635 Notch planting in uncultivated ground**

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1. Notching: Make a vertical 'I', 'L', 'T' or 'H' notch.
  - 1.1. Depth: To accommodate full depth of roots.
2. Planting: Plant tree, close notch with root collar at ground level and firm the soil.

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## 665 Setting out

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1. Distance between trees: Refer to drawing no. 1872\_PL\_P04
2. Distance between rows: as per specifications.
- 3.

## Protecting/ maintaining/ making good defects

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## 710 Maintenance

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1. Duration: Carry out the operations in the following clauses from completion of planting until 36 months
2. Frequency of maintenance visits: In accordance with the contract: Plants/ trees/ shrubs that have failed to thrive.

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## 720 Failures of planting

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1. Defects due to materials or workmanship not in accordance with the Contract: Plants/ trees/ shrubs that have failed to thrive.
  - 1.1. Exclusions: Theft or malicious damage after completion.
  - 1.2. Rectification: Replace with equivalent plants/ trees/ shrubs.
2. Replacements: To match size of adjacent or nearby plants of same species or match original specification, whichever is the greater.
3. Timing of making good: During the next suitable planting season

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## 740 Cleanliness

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

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## 750 Planting maintenance generally

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1. Weed control: Maintain weed free area around each tree and shrub.
  - 1.1. Diameter (minimum): The larger of 1 m or the surface of original planting pit.
  - 1.2. Keep planting beds clear of weeds: By use of approved non-residual herbicides
2. 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.
3. Precautions: Ensure that trees and shrubs are not damaged by use of mowers, nylon filament rotary cutters and similar powered tools.
4. Firming up: Gently firm loosened soil around trees/ shrubs. Straighten leaning trees/ shrubs.
5. Trees: Spray crown when in leaf during warm weather.
  - 5.1. Timing: After dusk.
6. Tree accessories: Check condition of stakes, ties, guys, guards and irrigation and ventilation systems.
  - 6.1. Broken or missing items: Replace.
  - 6.2. Loose stakes: Re-firm in the ground or replace as necessary to provide support to the tree.
  - 6.3. Loose guys: Re-firm anchor points and adjust as necessary to provide support to the tree.
  - 6.4. Ties: Adjust to accommodate growth and prevent constriction or abrasion.
  - 6.5. Damage to bark: Cut back neatly with sharp knife. Prevent further damage.
  - 6.6. Frequency of checks: As schedule

7. Watering: As required for healthy establishment, depending on weather conditions

### **760 Planting maintenance – pruning**

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1. General: Prune to promote healthy growth and natural shape.
  - 1.1. Dead, dying, diseased wood and suckers: Remove.
  - 1.2. Timing: As appropriate depending on species.
  - 1.3. Trees: Favour a single central leading shoot.
2. Arisings: Remove.

### **770 Woodland planting maintenance**

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1. Watering: Only as necessary to prevent plants wilting.
2. Loose plants: Refirm surrounding soil, without compacting.
3. Weed control: Cut down and remove weeds prior to setting seed in a 1 m diameter area around each tree.
4. Vegetation except trees and coppice shoots to be retained: Cut within the plantation area.
  - 4.1. Height (maximum): 5000mm
  - 4.2. Arisings: Leave between rows.
5. Mechanical, chemical or mulching methods of vegetation control: Submit proposals.
6. Ditches and drains: Keep clear.
7. Watering: As required for healthy establishment, depending on weather conditions.

### **780 Maintenance instructions**

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1. General: Before end of the maintenance period, submit printed instructions recommending procedures to be established by the Employer for maintenance of the planting work for one full year: Provide a schedule of any ongoing maintenance problems experienced during the rectification period..

### **790 Final mulching**

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1. Timing: At end of the maintenance period.
2. Watering: Ensure that soil is thoroughly moistened prior to remulching, applying water where necessary.
3. Planting beds: Remulch.
4. Depth (minimum): 50 mm
5. Trees: Remulch.
6. Depth (minimum): 75 mm