

Eamonn Byrne Landscape Architects Ltd

Away Resorts

Mill Rythe Holiday Village

Specification for Landscape Works

03-12-2021

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Q28

Topsoil and soil ameliorants

Clauses - Not Used

System outline

135 Planting bed topsoil system

1. **Description:** For ornamental planting beds, native woodland and hedge planting
2. **Composition**
 - 2.1. **Topsoil:** Site sourced topsoil
 - 2.2. **Ameliorants:** Organic materials
 - 2.3. **Accessories:** None

145 Planting pit backfilling topsoil system

1. **Description:** For all tree, shrub, herbaceous and grasses
2. **Composition**
 - 2.1. **Topsoil:** Site sourced topsoil
 - 2.2. **Ameliorants:** Sanitized and stabilized composted materials and Fertilizer
 - 2.3. **Accessories:** None

155 Mulching and top dressing system

1. **Description:** For ornamental planting and 1m diameter circles to base of all standard and multi-stemmed trees
2. **Composition**
 - 2.1. **Material:** Composted bark mulch

Products

300 Preparation materials generally

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.

345 Aggregates

1. **Description:** For standard and multi-stem tree pits
2. **Source:** Contractor's choice

- 2.1. Product reference: Contractor's choice
- 3. Reference, description and grading
 - 3.1. Sand: Not required
 - 3.2. Grit: 10 mm single size pea shingle
 - 3.3. Crushed materials: Not required
 - 3.4. Other aggregates or particles: None
- 4. Recycled content: None permitted

355 Organic materials

- 1. Description: For top dressing/ mulching
- 2. Type: Composted Bark
- 3. Source: Contractor's choice
 - 3.1. Product reference: Contractor's choice

360 Sanitized and stabilized composted materials certified to PAS 100

- 1. Description: For planting beds
- 2. Standard: In accordance with PAS 100.
- 3. Source: Contractor's choice
 - 3.1. Product reference: Contractor's choice
- 4. Horticultural parameters
 - 4.1. pH (1:5 water extract): 7.0-8.7.
 - 4.2. Electrical conductivity (maximum, 1:5 water extract): 200 mS/m.
 - 4.3. Moisture content (m/m of fresh weight): 35-55%.
 - 4.4. Organic matter content (minimum): 25%.
 - 4.5. Grading (air dried samples): 99% passing 25 mm screen, and 90% passing: 5 mm screen mesh aperture
 - 4.6. Carbon:Nitrogen ratio (maximum): 20:1.
- 5. Texture: Friable.
- 6. Objectionable odour: None.
- 7. Composting Association certification: Required
- 8. Declaration of analysis: Submit.
- 9. Additional analyses: Not required
- 10. Samples: Supply 5 kg sample before ordering

385 Water retention gels

- 1. Description: For tree pits
- 2. Type: Buried gel irrigation system
- 3. Manufacturer: Contractor's choice
 - 3.1. Product reference: Contractor's choice
- 4. Accessories: None

405 Inorganic fertilizers

- 1. Description: For planting beds, native woodland & hedge planting and tree pits
- 2. Manufacturer/ source: Contractor's choice
 - 2.1. Product reference: Contractor's choice

3. **Standard:** In accordance with The EC Fertilisers (England and Wales) Regulations 2006
4. **Purpose:** Establishment fertilizer
5. **Type:** NPK (macronutrient)
6. **Availability to plants:** Slow release

Execution

635 Documentation for compost and composted materials

1. **Description:** For compost
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:** One

650 Notice

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:** 2 working days

655 Mechanical tools

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

685 Surplus materials to be removed

1. **Topsoil:** Remove from site: excess topsoil
2. **Subsoil, stones, debris, wrapping material, canes, ties, temporary labelling, rubbish, prunings and other arisings:** Remove.

700 Grading of topsoil

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. **Finished levels after settlement:** 25 mm above adjoining paving, kerbs, manholes etc.
4. **Give notice:** If required levels cannot be achieved by movement of existing soil.

705 Handling topsoil

1. **Aggressive weeds:** Give notice and obtain instructions before moving topsoil.
2. **Plant:** Select and use plant to minimize disturbance, trafficking and compaction.
3. **Contamination:** Do not mix topsoil with:

- 3.1. Subsoil, stone, hardcore, rubbish or material from demolition work.
- 3.2. Other grades of topsoil.
4. Multiple handling: Keep to a minimum. Use or stockpile topsoil immediately after stripping.
5. 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:

1. Temporary roads/ surfacing: Remove before spreading topsoil.
2. Layers
 - 2.1. Depth (maximum): 150 mm.
 - 2.2. Gently firm each layer before spreading the next.
3. Depths after firming and settlement (minimum): 300 mm
4. Crumb structure: Do not compact topsoil. Preserve a friable texture of separate visible crumbs wherever possible.

718 Final cultivation

1. Description: For planting beds
2. Compacted topsoil: Break up to full depth.
3. Tilth: Loosen, aerate and break up topsoil to a tilth suitable for blade grading.
4. Depth: 350 mm
5. Particle size (maximum): 10 mm
6. Timing: Within a few days before planting
7. Weather and ground conditions: Suitably dry.
8. Surface: Leave regular and even.
9. Levels: 25 mm above adjoining paving or kerbs and Minimum 150 mm below dpc of adjoining buildings
10. Undesirable material brought to the surface
 - 10.1. Remove visible weeds.
 - 10.2. Remove roots and large stones with any dimension exceeding 50 mm.

720 Finished levels of topsoil after settlement

1. Above adjoining paving or kerbs: 25 mm
2. Below dpc of adjoining buildings: Not less than: 150 mm
3. Planting beds: Higher than adjoining grass areas by: 25 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: ± 75 mm.
 - 5.2. From line between boning rods 30 m apart: ± 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.

810 Applying compost

1. Description: To planting beds and tree pits
2. Application rate for trees and shrubs: 100 mm thick

- 2.1. Timing: Apply prior to cultivation.
- 3. Application rate for grass: 50 mm thick layer
 - 3.1. Timing: Apply prior to cultivation.
- 4. Application rate for planters: 50 mm thick layer
 - 4.1. Timing: Apply prior to cultivation.
- 5. Other requirements: None

820 Applying general fertilizer

- 1. Description: To planting beds and tree pits
- 2. Application: Spread evenly, carefully incorporating below mulch materials.
 - 2.1. Timing: Immediately before cultivation.
 - 2.2. Application rate: to manufacturers recommendations
 - 2.3. Other requirements: none

835 Applying buried gel irrigation system

- 1. Description: To tree pits
- 2. Depth: To manufacturer's/ supplier's recommendations

845 Applying loose mulch

- 1. Description: For planting beds and tree pits
- 2. Timing: Immediately after planting
- 3. Preparation: Ensure that soil is thoroughly moistened, applying water where necessary
- 4. Coverage of mulch (minimum)
 - 4.1. Planting beds (depth): 50 mm depth
 - 4.2. Trees: 75 mm depth
 - 4.3. Container planting: NONE
- 5. Finished level of mulch: 30 mm below adjacent grassed or paved areas

Completion

920 Applying mulch

- 1. Timing: At end of the rectification 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): 50 mm
- 4. Trees: Remulch.
 - 4.1. Depth (minimum): 50 mm
- 5. Container planting: Remulch.
 - 5.1. Depth (minimum): 50 mm

Ω End of Section

Q30

Seeding/turfing

Clauses - Not Used

General information/requirements

115 Seeded and turfed areas

1. **Growth and development:** Healthy, vigorous grass sward, free from the visible effects of pests, weeds and disease.
2. **Appearance:** A closely knit, continuous ground cover of even density, height and colour.

120 Climatic conditions

1. **General:** Carry out the work while soil and weather conditions are suitable.

145 Watering

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.

150 Water restrictions

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

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:** 1 week

170 Setting out

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

Preparation

210 Herbicide

1. **Description:** For all grassed areas
2. **Type:** Suitable for suppressing perennial weeds.
3. **Timing:** Allow fallow period before cultivation.
 - 3.1. **Duration:** As manufacturer's recommendation

212 Seed bed cleaning before sowing

1. Description: All grassed areas
2. Operations: Kill pernicious weeds with selective contact herbicide.

250A Soil requirements

1. Type
 - 1.1. Seeded areas: Existing topsoil
 - 1.2. Turfed areas: Existing topsoil

Seeding

312 Wildflower seed mixture

1. Description: For wildflower meadows to ditch and pond edge
2. Supplier: Emorsgate EP1 and EP1F Pond Edge Mixture and Wildflower Pond Edge Mixture Standard
 - 2.1. Mixture reference: Emorsgate EP1 and EP1F Pond Edge Mixture and Wildflower Pond Edge Mixture Standard
3. Origin of each species (as defined in Flora Locale's Code of practice for collectors, growers and suppliers of native flora): British Native
4. Application rate: Supplier's recommendations

330 Sowing

1. General: Establish good seed contact with the root zone.
2. Method: To suit soil type, proposed usage, location and weather conditions during and after sowing
 - 2.1. Distribution: 2 equal sowings at right angles to each other and diagonally to main axis

336 Wildflower sowing season

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

340 Pre-emergent herbicide

1. Description: For wildflower meadows
2. Standard: Pesticide Safety Directorate approved.
3. Application rate: In accordance with manufacturer's written recommendation.
 - 3.1. Timing: Immediately after sowing.

Turfing

400 Cultivated turf

1. Description: For all grassed areas
2. Supplier: Rowlawn or equal and approved
 - 2.1. Product reference: Medallion Turf or equal and approved
3. Properties of soil used for turf production: Well drained sandy loam

420 Delivery and storage

1. Timing: Lay turf with minimum possible delay after lifting. If delay occurs, lay turf out on topsoil and keep moist.
2. Frosty weather or waterlogged ground: Do not lift turf.

3. **Delivery:** Arrange to avoid need for excessive stacking.
4. **Stacking height (maximum):** 1 m.
5. **Dried out or deteriorated turf:** Do not use.
6. **Certification**
 - 6.1. **Standard:** To BS 3969.
 - 6.2. **Declaration:** Species mix, including percentage of specified species

430 Turfing generally

1. **Time of year:** To be agreed
2. **Timing of laying**
 - 2.1. **Spring and summer:** Within 18 hours of delivery.
 - 2.2. **Autumn and winter:** Within 24 hours of delivery.
3. **Weather conditions:** Do not lay turf when persistent cold or drying winds are likely to occur or soil is frost bound, waterlogged or excessively dry.
4. **Working access:** Planks laid on previously laid turf. Do not walk on prepared bed or newly laid turf.
5. **Jointing:** Laid with broken joints, well butted up. Do not stretch turf.
6. **Edges:** Whole turfs, trimmed to a true line.
7. **Adjusting levels:** Remove high spots and fill hollows with fine soil.
8. **Consolidating:** Lightly and evenly firm as laying proceeds to ensure full contact with substrate. Do not use rollers.
9. **Dressing, brushed well in to completely fill all joints:** None
10. **Watering:** Thoroughly water completed turf immediately after laying. Check that water has penetrated into the soil below.

440 Turfing on banks exceeding 30° slope

1. **Turf configuration:** Diagonal or horizontal.
2. **Securing turfs**
 - 2.1. **Fixings:** Submit proposals
 - 2.2. **Frequency of fixings:** Every second row
3. **Removal of fixings:** When turf is thoroughly self anchored by its roots. Make good any damage to grass until area is accepted

450 Trimming turf

1. **Newly planted tree pits:** Neatly cut away around individual trees.
 - 1.1. **Diameter:** 1000 mm
 - 1.2. **Tree pit surface:** Respread existing mulch

Protecting/cutting

530 First cut of grassed areas

1. **Timing:** When grass is reasonably dry.
 - 1.1. **Height of initial growth:** 40-75 mm
2. **Preparation**
 - 2.1. **Debris and litter:** Remove.
 - 2.2. **Stones and earth clods larger than 25 mm in any dimension:** Remove
3. **Height of first cut:** 25 mm

4. Mower type: Contractor's choice
5. Arisings: Remove from site

550 Areas not to be cut

1. Do not cut:
2. Meadow grass containing wildflowers.

590 Cleanliness

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

620 Maintaining

1. Description: General grassed areas
2. Duration: Carry out the following operations from completion of seeding/ turfing until: the end of the rectification period.
3. Maximum height of growth at any time: 50 mm
4. Preparation: Before each cut remove all litter and debris.
5. Cutting: As and when necessary to a height of 25 mm.
 - 5.1. Arisings: Remove
6. Bulb planting areas: Do not cut until bulb foliage has died down.
7. Trimming: All edges.
 - 7.1. Arisings: Remove.
8. Weed control: Substantially free of broad leaved weeds.
 - 8.1. Method: Application of a suitable selective herbicide.
9. Stones brought to the surface: Remove regularly.
 - 9.1. Size: Exceeding 25 mm in any dimension.
10. Areas of settlement: Make good.
11. Watering: Contractor's choice

650A Maintaining grassed areas with perennial wild flowers

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: July/ August after seeding
 - 3.2. Height of first cut: 50 mm
 - 3.3. Frequency of subsequent cutting (minimum): none required
 - 3.4. Height of growth permitted (maximum): 150 mm
4. Height and frequency of cut in second growing season
 - 4.1. Time of cut: once in September to October
 - 4.2. Height of cut: 50 mm
5. Trimming: All edges.
 - 5.1. Arisings: Leave on site for minimum one week then Remove.

6. **Watering:** Contractor's choice

Ω End of Section

Q31 External planting

Clauses - Not Used

General information/ requirements

112 Site clearance generally

1. **General:** Remove rubbish, concrete, metal, glass, decayed vegetation and contaminated topsoil.
2. **Stones:** Remove those with any dimension exceeding 50 mm.
3. **Contamination:** Remove material containing toxins, pathogens or other extraneous substances harmful to plant, animal or human life.
4. **Vegetation:** Lift newly laid turfed areas to make planting beds and tree circles
5. **Large roots:** Grub up and dispose of without undue disturbance of soil and adjacent areas.
6. **Additional requirements:** none

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.

120 Climatic conditions

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

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.

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.

150 Water restrictions

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

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: Two working days

170 Soil requirements

1. Type
 - 1.1. Planted beds: Planting bed soil system, as section Q28
 - 1.2. Tree pits, shrub pits and other backfilling: Plant pit backfilling soil system, as section Q28
 - 1.3. External container planting: None
 - 1.4. Mulch applied after planting: Mulching and top dressing system, as section Q28

200 Plants/ Trees – general

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 National Plant Specification
7. Species: True to name.
8. Origin/ Provenance: Contractor's choice
9. Definition: Origin and Provenance have the meaning given in the National Plant Specification.

215 Plants/ Trees – specification criteria

1. Name, forms, dimensions, provenance and other criteria: As scheduled and defined in the National Plant Specification.

216 Plants/ Trees – specification criteria

1. Name, forms, dimensions and other criteria: To the relevant part of BS 3936.

225 Bulbs/ Corms/ Tubers

1. Condition: Firm, entire, not dried out or shrivelled.
2. Health: Free from pests, diseases and fungus.
3. Handling: Remove from packaging immediately.
4. Storage: Permitted only when necessary.
 - 4.1. Location: Well ventilated, dark, covered, rodent proof container, away from exhausts and fruit.
 - 4.2. Duration: Minimum period.

4.3. Temperature: 18-21°C.

235 Container grown plants/ Trees

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.

245 Labelling and information

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: Date supplied and consignment details or reference.

246 Labelling and information

1. **Standard:** To BS 3936.

260 Plant/ Tree substitution

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

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:** Black polyethylene bags
5. **Packaging of bulk quantities:** Pallets or bins sealed with polyethylene and shrink wrapped
6. **Planting:** Upright or well balanced with best side to front.

280 Treatment of tree wounds

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.

285 Protection of existing grass

1. General: Protect areas affected by planting operations using boards/ tarpaulins.
 - 1.1. Excavated or imported material: Do not place directly on grass.
 - 1.2. Duration: Minimum period.

290 Surplus material

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

Plant containers - Not Used

Preparation of planting beds/ planting materials

300 Herbicide

1. Description: To clear existing vegetation
2. Locations: All planting areas
3. Type: Suitable for suppressing perennial weeds.
4. Timing: Allow fallow period before cultivation.
 - 4.1. Duration (minimum): As manufacturer's recommendation

Planting shrubs/ herbaceous plants/ bulbs

400 Random plant layout

1. Description: To shrub planting
2. Spacing: As drawings LN-0-01, PP-0-01 TO PP-0-6
3. Density: As plant schedule

400B Random plant layout

1. Description: To woodland planting
2. Spacing: As drawings LN-0-01, PP-0-01 TO PP-0-6
3. Density: As plant schedule

405 Shrub planting pits

1. Timing: Excavate 1-2 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/m².

415 Antidesiccant for conifers/ Evergreens

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

480 After planting

1. **Watering:** Immediately after planting, thoroughly and without damaging or displacing plants or soil.
2. **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.
3. **Top dressing:** Mulching and top dressing system, as section Q28
 - 3.1. **Depth:** 50 mm

Planting trees

502 Antidesiccant for conifers/ Evergreens

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

505 Tree pits

1. **Sizes:** 75 mm deeper than root system and wide enough to accommodate roots when fully spread
2. **Sloping ground:** Maintain horizontal bases and vertical sides with no less than minimum depth throughout.
3. **Pit bottoms:** With slightly raised centre. Break up to a depth of: 200 mm
 - 3.1. **Treatment:** Soil ameliorant worked into pit bottoms and pea gravel drainage layer 100mm depth
4. **Pit sides:** Scarify.
5. **Backfilling material:** Plant pit backfilling soil system, as section Q28
6. **Accessories:** Tree pit drainage layer (100mm depth pea gravel) and Perforated plastics irrigation pipe

512 Tree pit irrigation and ventilation accessories

1. **Locations:** All tree pits
2. **Manufacturer:** Contractor's choice
 - 2.1. **Product reference:** Submit proposals
3. **Type:** Perforated plastics irrigation pipe, 50 mm diameter, in circle above and around sides of rootball, with plastics cap

535 Tree stakes

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:** To provide a 20 year service life
2. **Nails:** To BS 1202-1, galvanized, minimum 25 mm long and with 10 mm diameter heads.
3. **Stake size (minimum):** 50 mm diameter

566 Tree protection

1. **Manufacturer:** Contractor's choice
 - 1.1. **Product reference:** Contractor's choice
2. **Type:** Spiral

3. **Material:** HDPE
4. **Size:** 0.6 m high x 200 mm diameter
5. **Colour:** Contractor's choice
6. **Support:** Single timber stake
7. **General:** Ensure that protection methods do not impede natural movement of trees or restrict growth.

575 Short double staking for

1. **Description:** All trees
2. **Staking:** Drive stakes vertically at least 300 mm into bottom of pit on either side of tree position before planting.
 - 2.1. **Backfilling:** Consolidate material around stakes.
3. **Height of stakes:** Cut to approximately 600 mm above ground level.
4. **Cross bar:** Wood, as stake
 - 4.1. Firmly fix on windward side of tree and as close as possible to stem.
5. **Ties:** Cushioned ties
6. **Tying:** Secure tree firmly but not rigidly to cross bar.

Woodland/ matrix/ buffer zone planting

600 Woodland work generally

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.

605 Existing vegetation/ Weed clearance

1. **Surface vegetation clearance:** remove all from total area of bed for woodland screen planting
2. **Arisings:** Remove.

625 Cultivation

1. **General:** Rotary cultivate to full depth of topsoil
2. **Consolidation:** Leave for one month
3. **Soil within root spread of trees to be retained:** Do not plough or cultivate.

645A Transplant planting

1. **Planting** Transplant tree and shrubs
2. **FERTILIZER:** TO EACH TRANSPLANT, STANDARD TREE AND CONTAINER GROWN PLANTING STATION THE CONTRACTOR SHALL SUPPLY AND INCORPORATE A SLOW RELEASE FERTILIZER.
PREPARATION: TRANSPLANT PITS SHALL BE EXCAVATED TO A WIDTH OF 300MM DIAMETER AND 300MM BELOW EXISTING LEVELS. ALL PITS SHALL BE EXCAVATED TO SUFFICIENT DEPTH AND WIDTH TO ACCOMMODATE THE PLANT WITHOUT DISTURBING ROOTS. ALL PITS SHALL BE BACKFILLED AND SUFFICIENT SOIL SHALL BE REPLACED TO RAISE THE LEVEL 40MM ABOVE THAT OF ADJACENT LEVELS. CONTAINER GROWN STOCK SHALL BE PLANTED IN A PIT EXCAVATED TO SUFFICIENT DEPTH AND WIDTH TO ACCOMMODATE THE PLANT WITHOUT DISTURBING THE ROOTS.
3. **PLANTING:** Plant transplants, with root collar at ground level and firm the soil.
4. **STAKING:** TUBEX SHRUB SHELTER PLUS, 0.75 height X 80-120MM diameter, STAKED WITH SOFT WOOD STAKES 32MM SQUARE X 0.75M

5. LONG (above ground). DRIVE STAKES SECURELY AS IS WINDY LOCATION.
6. Supplier:
7. Green-tech Ltd
8. Sweethills park
9. Nun Monk
10. York
11. YO26 8ET
12. T: 01423 332100

680 Setting out

1. Planting density: As plant schedule
2. Layout: Random groups of no less than 3 or more than 7 of the same species, ensuring that no three plants are aligned in any one direction.

Protecting/ maintaining/ making good defects

710 Maintenance

1. Duration: Carry out the operations in the following clauses from completion of planting until the end of the rectification period.
2. Frequency of maintenance visits: Contractor's choice

720 Failures of planting

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

740 Cleanliness

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.

750 Planting maintenance generally

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 maintaining full thickness of mulch
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. Staking: Check condition of stakes, ties, guys and guards.
 - 4.1. Broken or missing items: Replace.
 - 4.2. Rubbing: Prevent.
 - 4.3. Ties: Adjust to accommodate growth.
 - 4.4. Damage to bark: Cut back neatly with sharp knife. Prevent further damage.

- 4.5. Frequency of checks: At each scheduled maintenance visit
- 5. Firming up: Gently firm loosened soil around trees/ shrubs. Straighten leaning trees/ shrubs.
- 6. Trees: Spray crown when in leaf during warm weather.
 - 6.1. Timing: After dusk.
- 7. Watering: Contractor's choice

760 Planting maintenance – pruning

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

770 Woodland planting maintenance

- 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): 25 mm
 - 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: Contractor's choice

790 Final mulching

- 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): 50 mm

Ω End of Section

Q35

Landscape maintenance

Clauses - Not Used

Generally

105A To be read in conjunction with Landscape and Ecological Management Plan by Middlemarch Environmental Ltd.

1. Description: -

110 Notice

1. Give notice before
 - 1.1. Application of herbicide.
 - 1.2. Application of fertilizer.
 - 1.3. Watering.
 - 1.4. Each site maintenance visit.
2. Period of notice: 2 weeks

130 Reinstatement

1. Damage or disturbance to soil structure, planting, grass, fencing, hard landscaping, structures or buildings: Reinstatement to original condition.

155 Watering

1. Supply: Potable mains water
2. Quantity: Wet to field capacity
3. Application: Do not damage or loosen plants.
4. Compacted soil: Loosen or scoop out, to direct water to rootzone.
5. Frequency: As necessary for the continued thriving of all planting.

160 Water restrictions

1. 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 arisings

1. General: Unless specified otherwise, dispose of arisings as follows:
 - 1.1. Biodegradable arisings: Compost on site
 - 1.2. Grass cuttings: Compost on site
 - 1.3. Tree roots and stumps: Remove from site
 - 1.4. Shrub and tree prunings: Compost on site
 - 1.5. Litter and nonbiodegradable arisings: Remove from site

190 Litter

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

195 Protection of existing grass

1. **General:** Protect areas affected by maintenance operations using boards/tarpaulins. Do not place excavated or imported materials directly on grass.

197 Cleanliness

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.

Grassed areas

210 Maintenance of grassed areas

1. **General:** Maintain turf in a manner appropriate to the intended use.
2. **Soil and grass**
 - 2.1. **Condition:** Maintain a healthy vigorous sward, free from disease, fungal growth, discolouration, scorch or wilt.
 - 2.2. **Waterlogging and compaction:** Prevent.
 - 2.3. **Damage:** Repair trampling, abrasion or scalping.
3. **Ornamental lawns:** Maintain reasonably free from moss, excessive thatch, weeds, frost heave, worm casts and mole hills.
 - 3.1. **Edges:** Neat and well defined, in clean straight lines or smooth flowing curves.
4. **Litter and fallen leaves:** Remove regularly to maintain a neat appearance.

211 Maintenance of grassed areas

1. **Standard:** To BS 7370-3. Carry out maintenance appropriate to each category of turf, as follows:
 - 1.1. **Objectives:** To BS 7370-3, table 6.
 - 1.2. **Programme:** To BS 7370-3, clause 11.
 - 1.3. **Mowing methods:** To BS 7370-3, table 3.

220 Grass cutting generally

1. **Before mowing:** Remove litter, rubbish and debris.
2. **Finish:** Neat and even, without surface rutting, compaction or damage to grass.
3. **Edges:** Leave neat and well defined. Neatly trim around obstructions.
4. **Adjoining hard areas:** Sweep clear and remove arisings.
5. **Drought or wet conditions:** Obtain instructions.

226 Tree stems

1. **Precautions:** Do not allow nylon filament rotary cutters and other mechanical tools closer than 100 mm to the stem of any tree.
 - 1.1. **Operations close to stems:** Complete using hand tools.

250 Leaf removal

1. **Operations:** Collect fallen leaves.
2. **Special requirements:** None
3. **Disposal:** Shred and compost on site

255 First cut of

1. Description: All grassed areas
2. Height of initial growth: 40-75 mm
3. Preparation
 - 3.1. Debris and litter: Remove.
 - 3.2. Stones and earth clods larger than 25 mm in any dimension: Remove
4. Height of first cut: 25 mm
5. Mower type: Contractor's choice
6. Arisings: Remove

260 Mowing lawns

1. Grass height: Maintain between 25 and 50 mm
2. Arisings: Remove

272A Maintaining grassed areas with perennial wild flowers

1. Preparation: Before each cut remove litter and debris.
2. Height and frequency of cut in first growing season
 - 2.1. Time of first cut: July/ August after seeding
 - 2.2. Height of first cut: 50 mm
 - 2.3. Frequency of subsequent cutting (minimum): none
 - 2.4. Height of growth permitted (maximum): 150 mm
3. Height and frequency of cut in second growing season
 - 3.1. Time of cut: Once in September or October
 - 3.2. Height of cut: 50 mm
4. Trimming: All edges.
 - 4.1. Arisings: Leave on site for minimum of one week then Remove.
5. Watering: Contractor's choice

272B Maintaining grassland within SINC/ existing grassland and scrub

1. Refer to also to landscape and ecology management plan.
2. Grassland
3. Rotational cutting of grassland with 50% of the area cut to a height of 50-100mm each year in September.
4. Scrub
5. Dense scrub around SINC peripheries cut back annually in September.
6. Scattered scrub within SINC grassland to be cut on a rotational basis, with 25% cut each year in September.

285 Top dressing

1. Location: Ornamental lawns to Central Complex
2. Timing: Following scarification and aeration
3. Material: Compost/ sand/ loam mix
4. Supplier: Contractor's choice
 - 4.1. Product reference: Contractor's choice
5. Declaration of analysis: Submit.

6. Additional analyses: Not required
7. Samples: Not required
8. Application rate: To manufacturers recommendations

290 Rolling

1. Location: Ornamental lawns to Central Complex
2. Timing: February or March, after first mowing
3. Roller: Contractor's choice
4. Operations: Consolidate turf and reduce frost heave.

295 Spiking

1. Location: Ornamental lawns to Central Complex
2. Timing: As necessary to relieve compaction
3. Operations: Aerate the soil and improve surface water penetration.
4. Depth (minimum): 100 mm into soil

300 Scarifying

1. Location: Ornamental lawns to Central Complex
2. Timing: October or November, before top dressing
3. Operations: Relieve thatch conditions and remove dead grass.
4. Depth (maximum): 25 mm into soil
5. Arisings: Remove

307 Hollow tining

1. Location: Ornamental lawns to Central Complex
2. Timing: As necessary to relieve compaction
3. Depth: 100 mm

309 Edges to seeded areas

1. Location: Planting beds and around newly planted trees.
2. Timing: After seeded areas are well established.
3. Edges: Cut to clean straight lines or smooth curves. Draw back soil to permit edging.
4. Arisings: Remove.

310 Re-forming grass edges

1. Location: Planting bed edges
2. Edges: Draw back soil and re-form edges to clean straight lines or smooth flowing curves, sloping slightly back from vertical.

320 Levelling hollows and bumps in turf

1. Standard: To BS 7370-3, clauses 12.4 and 12.5.

325 Relieving surface compaction in turf

1. Standard: To BS 7370-3.
2. Method: Spiking
3. Top dressing: Not required

3.1. Depth: 2-5 mm

330 Selective herbicide

1. Location: Ornamental lawns to Central Complex
2. Herbicide: Combined weed and feed mix
3. Areas not to be sprayed: Wildflower areas and general lawns outside central complex are as small wildflowers in lawn areas here are to be encouraged

340 Spot weedkilling in rough grass areas

1. Herbicide: Contractor's choice
2. Operations: Spot treat injurious weed species listed in the Weeds Act 1959 and Wildlife and Countryside Act 1981 and Japanese knotweed (*Fallopia* spp).

350 Fertilizer – spring application

1. Type: Slow release
2. Application rate: 60 g/m²

360 Fertilizer – autumn application

1. Type: Slow release
2. Application rate: 60 g/m²

381 Reinstatement of worn or damaged lawns

1. Worn or damaged areas: Make good by returfing or reseeding:
 - 1.1. Returfing standard: To BS 7370-3, Clause 12.2.
 - 1.2. Reseeding standard: To BS 7370-3, Clause 12.6.
2. Turf or seed: To match existing in appearance and quality.
3. Protection and watering: Provide as necessary to promote successful germination and/ or establishment.

Flower beds/ seasonal beddings

399A Herbaceous perennial planting

Shrubs/trees/hedges

500 Establishment of new planting

1. Duration: Five full growing seasons from the date of planting
2. Weed control
 - 2.1. Method: Keep planting beds clear of weeds by maintaining full thickness of mulch.
 - 2.2. 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.
3. Soil condition: Fork over beds to keep soil loose, with gentle cambers and no hollows. Do not reduce depth or effect of mulch.
4. Watering: Contractor's choice

502 Establishment of new planting – fertilizer

1. Time of year: March or April.
2. Type: Slow release

3. **Spreading:** Spread evenly. Carefully lift and replace any mulch materials.
 - 3.1. **Application rate:** As manufacturer's recommendations

510 Tree stakes and ties

1. **Inspection/ Maintenance times:** As scheduled and immediately after strong winds
2. **Stakes**
 - 2.1. Replace loose, broken or decayed stakes to original specification.
 - 2.2. If longer than half of clear tree stem height, cut to this height in spring. Retie to tree firmly but not tightly with a single tie.
3. **Ties:** Adjust, refix or replace loose or defective ties, allowing for growth and to prevent chafing.
 - 3.1. Where chafing has occurred, reposition or replace ties to prevent further chafing.
4. **Removal of stakes and ties:** During spring when no longer required to support the tree
 - 4.1. Fill stake holes with lightly compacted soil.

520 Refirming of trees and shrubs

1. **Timing:** After strong winds, frost heave and other disturbances.
2. **Refirming:** Tread around the base until firmly bedded.
3. **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.

525 Tree guards

1. **Loose or defective guards:** Adjust, refix or replace to original specification and to prevent chafing.

530 Tree shelters

1. **Loose or defective shelters:** Adjust, refix or replace to original specification and to prevent chafing.
2. **Removal:** During spring when no longer required to protect the tree

540 Pruning generally

1. **Pruning:** In accordance with good horticultural and arboricultural practice.
 - 1.1. **Removing branches:** Do not damage or tear the stem or bark.
 - 1.2. **Wounds:** Keep as small as possible and cut cleanly back to sound wood.
 - 1.3. **Cutting:** Make cuts above and sloping away from an outward facing healthy bud, angled so that water will not collect on cut area.
 - 1.4. **Larger branches:** Prune neither flush nor leaving a stub, but using the branch bark ridge or branch collar as a pruning guide.
2. **Appearance:** Thin, trim and shape each specimen appropriately to species, location, season, and stage of growth, leaving a well balanced natural appearance.
3. **Tools:** Use clean sharp secateurs, hand saws or other approved tools. Trim off ragged edges of bark or wood with a sharp knife.
4. **Disease or infection:** Give notice if detected.
5. **Growth retardants, fungicide or pruning sealant:** Do not use unless instructed.

545 Pruning of excessive overhang

1. **Timing:** As instructed
2. **Operations:** Remove growth encroaching onto grassed areas, paths, roads, signs, sightlines and road lighting luminaires.
3. **Special requirements:** Allow ground cover plants to partially overlap paths and lawns

550 Pruning of excessive height

1. **Timing:** As instructed
2. **Operations:** Remove excessive height As instructed.

555 Pruning trees and shrubs

1. **Standard:** To BS 7370-4.
2. **Special requirements:** None

570 Formative pruning of young trees

1. **Standard:** Type and timing of pruning operations to suit the plant species.
2. **Time of year:** Do not prune during the late winter/ early spring sap flow period.
3. **Young trees up to 4 m high**
 - 3.1. **Crown prune** by removing dead branches and reducing selected side branches by one third to preserve a well balanced head and ensure the development of a single strong leader.
 - 3.2. **Remove duplicated branches** and potentially weak or tight forks. In each case cut back to live wood.
4. **Whips or feathered trees:** Do not prune.
5. **Operatives:** Approved specialist contractor

575 Pruning ornamental shrubs

1. **General:** Prune to encourage healthy and bushy growth and desirable ornamental features, e.g. flowers, fruit, autumn colour, stem colour.
2. **Suckers:** Remove by cutting back level with the source stem or root.

580 Pruning flowering species of shrubs and roses

1. **Time of year**
 - 1.1. **Winter flowering shrubs:** Spring.
 - 1.2. **Shrubs flowering between March and July:** Immediately after the flowering period.
 - 1.3. **Shrubs flowering between July and October:** Back to old wood in winter.
 - 1.4. **Rose bushes:** Early spring to encourage basal growths and a balanced, compact habit.

620 Removal of dead plant material

1. **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.

625 Climbing plants

1. **Pruning:** Remove excess growth, to ensure that signs, light fittings, doors and windows are kept clear at all times.
2. **Insecure growth:** Attach to supporting wires or structures using 1 mm diameter black plastics coated steel wire.
3. **Supporting structures:** Check and repair as necessary.

630 Dead and diseased plants

1. **Removal:** As soon as possible
2. **Replacement:** In the next scheduled round of replacement planting

635 Reinstatement of shrub/ Herbaceous areas

1. Dead and damaged plants: Remove.
2. Mulch/ matting materials
 - 2.1. Carefully move to one side and dig over the soil, leaving it fit for replanting.
3. Do not disturb roots of adjacent plants.
4. Replacement plants
 - 4.1. 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.
 - 4.2. Additional requirements: None
5. Dressing: Slow release fertilizer:
 - 5.1. Type: Contractor's choice
 - 5.2. Application rate: As manufacturer's recommendations

640 Thinning by removal of surplus plants

1. Plants to be thinned: Herbaceous beds
2. Standard: BS 7370-4.
3. Timing: When foliage of adjacent plants has begun to touch
4. Roots
 - 4.1. Disturbance to adjacent plants: Minimise.
 - 4.2. Soil: Refill holes with topsoil to leave an even graded surface.
 - 4.3. Mulch: Maintain mulch as original specification.
 - 4.4. Adjacent plants: Make good any minor damage immediately.
5. Plants for retention: Select plants with a strong healthy habit.
6. Mature planting density: As planting schedule

645 Weed control generally

1. Weed tolerance: At all times, weed cover less than 5% and no weed to exceed 100 mm high
2. Adjacent plants, trees and grass: Do not damage.

650 Hand weeding

1. General: Remove weeds entirely, including roots.
2. Disturbance: Remove the minimum quantity of soil, and disturb plants, bulbs and mulched surfaces as little as possible.
3. Completion: Rake area to a neat, clean condition.
4. Mulch: Reinstatement to original depth.

655 Weed cutting by hand or machine

1. Undesirable grass, brambles and herbaceous growth: Cut down cleanly to a maximum height of 25 mm.
2. Herbicides: Remove arisings before application

657 Herbicide to kill regrowth

1. Type: Suitable foliar acting herbicide to kill regrowth.
2. Timing: Allow recommended period for herbicide to take effect before clearing dead weeds.

665 Weed control with winter herbicide

1. **Type:** Suitable residual soil acting herbicide.
2. **Time of year:** Unless otherwise agreed, complete before end of March.
3. **Timing:** Allow recommended period for herbicide to take effect before clearing dead weeds.

670 Weed control with summer herbicide

1. **Type:** Suitable foliar acting herbicide.
2. **Timing:** Allow recommended period for herbicide to take effect before clearing dead weeds.

680 Soil aeration

1. **Compacted soil surfaces**
 - 1.1. **Prick up:** To aerate the soil of root areas and break surface crust.
 - 1.2. **Size of lumps:** Reduce to crumb and level off.
 - 1.3. **Damage:** Do not damage plants and their roots.

685 Soil level adjustment

1. **Level of soil/mulch at edges of beds:** Reduce to 50 mm below adjacent grass or hard surface.
 - 1.1. **Arising (if any):** Spread evenly over the bed.

690 Maintenance of loose mulch

1. **Thickness (minimum):** 50 mm
 - 1.1. **Top up:** Annually
2. **Mulch spill on adjacent areas:** Remove weeds and rubbish and return to planted area.
3. **Weeding:** Remove weeds growing on or in mulch by herbicide treatment/ herbicide treatment.

695 Fertilizing established trees and shrubs

1. **Time of year:** During February or March
2. **Type of fertilizer:** Slow release
3. **Application:** Spread evenly.
 - 3.1. **Rate:** As manufacturer's recommendations

705 Winter leaf removal

1. **Operations:** Take down temporary leaf fences. Collect accumulations of drifted leaves from the vicinity and from planting beds.
2. **Arising:** Compost on site

710 Woodland planting maintenance

1. **Watering:** In exceptional circumstances to prevent plants dying.
2. **Loose plants:** Refirm surrounding soil, without compacting.
3. **Vegetation:** Except trees and coppice shoots to be retained, cut down to 200 mm above ground level within the plantation area.
 - 3.1. **Arising:** Leave between rows.
4. **Ditches and drains:** Keep clear.

715 Woodland thinning

1. **Mature planting density:** in accordance with the agreed management plan

2. Timing: Thin in stages in accordance with the agreed management plan.

720 Coppicing

1. Material to be coppiced Woodland planting.
2. Standard: Good forestry practice.
3. Cut stems: Not greater than 200 mm above ground level
 - 3.1. Finish: Leave sloping upward towards the centre to promote rainwater runoff.
4. Brash: Stack around coppice stool to alleviate deer damage.
5. Coppiced timber: Stack

Tree work

810 Tree work generally

1. Identification: Before starting work agree which trees, shrubs and hedges are to be removed or pruned.
2. Protection: Avoid damage to neighbouring trees, plants and property
3. Standards: To BS 3998 and Health & Safety Executive (HSE) 'Forestry and arboriculture safety leaflets'.
4. Removing branches: Cut vertical branches similarly, with no more slope on the cut surface than is necessary to shed rainwater.
5. Appearance: Leave trees with a well balanced natural appearance.
6. Chain saw work: Operatives must hold a Certificate of Competence.
7. Tree work: To be carried out by an approved member of the Arboricultural Association.

815 Additional work

1. Defective, diseased, unsafe or weak parts of trees additional to those scheduled for attention: Give notice if detected.

820 Prevention of wound bleeding

1. Standard: To BS 3998.

825 Prevention of disease transmission

1. Standard: To BS 3998.

830 Cleaning out and deadwooding

1. Remove
 - 1.1. Dead, dying, or diseased wood, broken branches and stubs.
 - 1.2. Fungal growths and fruiting bodies.
 - 1.3. Rubbish, windblown or accumulated in branch forks.
 - 1.4. Wires, clamps, boards and metal objects, if removable without causing further damage and not part of a support structure that is to be retained.
 - 1.5. Other unwanted objects, e.g. tree houses, swings.
 - 1.6. Climbing plants remove ivy.

835 Cutting and pruning generally

1. Tools: Appropriate, well maintained and sharp.
2. Final pruning cuts
 - 2.1. Chainsaws: Do not use on branches of less than 50 mm diameter.

- 2.2. **Hand saws:** Form a smooth cut surface.
- 2.3. **Anvil type secateurs:** Do not use.
- 3. **Removing branches:** Do not damage or tear the stem.
- 4. **Wounds:** Keep as small as possible, cut cleanly back to sound wood leaving a smooth surface, and angled so that water will not collect on the cut area.
- 5. **Cutting:** Cut at a fork or at the main stem to avoid stumps wherever possible.
- 6. **Large branches:** Remove only if unavoidable
 - 6.1. Remove in small sections and lower to ground with ropes and slings.
- 7. **Dead branches and stubs:** When removing, do not cut into live wood.
- 8. **Unsafe branches:** Remove epicormic shoots and potentially weak forks that could fail in adverse weather conditions.
- 9. **Disease or fungus:** Give notice if detected. Do not apply fungicide or sealant unless instructed.

840 Crown reduction/ Shaping

- 1. **General:** Cut back selectively to lateral or sublateral buds or branches to retain flowing branch lines without leaving stumps.
- 2. **Operations:** Reduce crown by 15%

845 Crown lifting

- 1. **Clearances:** Remove branch systems to give clearance.
 - 1.1. **Height:** As recommended by BS 7370-4, clause 3.7.2.3
- 2. **Removing branches:** Remove whole branches back to the stem, or cut lower portions of branches back to lateral or sublateral buds or branches. Do not leave stumps.

850 Crown thinning

- 1. **Removing branches:** Remove inward growing, crossing, rubbing, dead and damaged branches.
- 2. **Thinning:** Selectively remove secondary and small live branch growth evenly throughout the crown.
 - 2.1. **Quantity:** 15 %
- 3. **Cutting:** Make no cuts of more than 50 mm diameter.
 - 3.1. **Branches:** Cut back to lateral or sublateral buds or branches without leaving stumps.
- 4. **Appearance:** Leave a uniform and well balanced structure of branches and foliage.

855 Cutting tree roots

- 1. **Excavating:** Use hand tools only.
- 2. **Protected area:** Do not cut roots within an area which is the larger of:
 - 2.1. The branch spread of the tree.
 - 2.2. An area with a radius of half the tree's height, measured from the trunk.
- 3. **Outside protected area:** Give notice of roots exceeding 50 mm in diameter. Do not cut without approval.
- 4. **Cutting**
 - 4.1. **Cutting:** Make clean smooth cuts with a hand saw.
 - 4.2. **Wounds:** Minimize. Avoid ragged edges.
 - 4.3. **Finishing:** Pare cut surfaces smooth with a sharp knife.
- 5. **Backfilling**
 - 5.1. **Protection:** Cover cut roots with clean sharp sand.
 - 5.2. **Material:** Backfill with original topsoil.

860 Removing trees, shrubs and hedges

1. **Standards:** To BS 3998 and Health & Safety Executive (HSE)/ Arboricultural and Forestry Advisory Group Safety Leaflets.
2. **Existing services:** Check for below and above ground services. Give notice if they may be affected.
3. **Shrubs and smaller trees:** Cut down and grub up roots.
4. **Tree stumps**
 - 4.1. **Treatment:** Remove mechanically to a minimum depth of 300 mm below ground level
 - 4.2. **Removal by winching:** Give notice. Do not use other trees as supports or anchors.
5. **Protection:** Avoid damage to neighbouring trees, plants and property
6. **Work near retained trees:** Where tree canopies overlap and in confined spaces generally, take down trees carefully in small sections to avoid damage to adjacent trees that are to be retained.
7. **Filling holes**
 - 7.1. **Material:** Use as-dug material and/ or imported soil as required.
 - 7.2. **Finishing:** Consolidate and grade to marry in with surrounding ground level.

865 Bark damage

1. **Wounds**
 - 1.1. Do not attempt to stop sap bleeding.
 - 1.2. **Bark:** Remove ragged edges using a sharp knife.
 - 1.3. **Wood:** Remove splintered wood from deep wounds.
 - 1.4. **Size:** Keep wounds as small as possible.
2. **Liquid or flux oozing from apparently healthy bark:** Give notice.

870 Cavities in trees

1. **Investigation:** Remove rubbish and rotten wood. Probe the cavity to find the extent of any decay, and give notice.
2. **Water filled cavities:** Do not drain.
3. **Sound wood inside cavities:** Do not remove.
4. **Cavity openings:** Do not cover

Water areas

890 Dredging to

1. **Description:** Ponds
2. **Frequency:** As approved management plan
3. **Time of year:** As approved management plan
4. **Method:** As approved management plan
5. **Phasing:** As approved management plan

895 Clearance of watercourses

1. **Clearance:** Remove litter, debris, accumulated silt and excessive vegetation causing an obstruction.
2. **Frequency:** As approved management plan
3. **Time of year:** Submit proposals
4. **Method:** Contractor's choice
 - 4.1. **Access:** From one bank only.

- 4.2. Position: At least 1 m from the top of the bank.
5. Phasing: As approved management plan

Hard landscape areas/fencing

910 Hard surfaces and gravel areas

1. **Herbicide:** Apply a suitable foliar acting or residual herbicide. Allow recommended period for herbicide to take effect before clearing arisings.
2. **Hard surfaces:** Remove litter, leaves and other debris.
3. **Surface gutters and channels:** Remove mud, silt and debris.
4. **Drainage gullies:** Empty traps and flush clean.
5. **Gravel areas:** Rake over. Remove weeds, litter, leaves and debris, and level off.
6. **Repairs to flexible bituminous pavings:** In accordance with the original paving specification or BS 7370-2, clause 4.12.
7. **Stain removal:** In accordance with BS 7370-2, table 4.

Ω End of Section



Specification created using NBS Chorus