

Hyland Edgar Driver

EBC

Upper Acre, One Horton Heath

1560-HED-XX-XX-SP-L-0900

Hard and Soft Landscape Specifications

Reserved Matters

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D20

Excavating and filling

Generally/the site

110 Site investigation

1. **Report:** Refer to existing documentation by Engineers and Surveyors.

145 Variations in ground water level

1. **Give notice:** If levels encountered are significantly different from levels in the site investigation report or previously measured.

150 A Existing services, features and structures

1. **Services:** Refer to Surveys by others. Contractor to satisfy themselves as to location of existing services. Where indicated on drawings these shall be verified on site and clearly marked giving depth and type.
2. **Site features to be retained:** Water Courses on site as indicated in drawings.
3. **Structures:** N/a

Clearance/excavating

164 Tree roots

1. **Protected area:** Do not cut roots within precautionary protection area.
 - 1.1. **Size of area:** As per the Arboricultural Report.
2. **Excavation in protected area**
 - 2.1. **Method:** By hand only, under supervision
 - 2.2. **Backfill** as soon as possible or temporarily line with polyethylene sheet to reduce evaporation.
3. **Outside protected area:** Give notice of roots exceeding 25 mm and do not cut without approval.
4. **Cutting**
 - 4.1. **Make clean smooth cuts** with no ragged edges.
 - 4.2. **Pare cut surfaces smooth** with a sharp knife.
 - 4.3. **Treatment of cut roots:** Not required
5. **Backfill:** As dug material, enriched with amelioration as section Q31

168 Site clearance

1. **Timing:** Before topsoil stripping, if any.
2. **General:** Clear site of rubbish, debris and vegetation. Do not compact topsoil.
3. **Treatment:** Apply a suitable non-residual herbicide to areas to receive planting

170 Removing small trees, shrubs, hedges and roots

1. **Identification:** Clearly mark trees to be removed.
2. **Small trees, shrubs and hedges:** Cut down.
3. **Roots:** Grub up and dispose of without undue disturbance of soil and adjacent areas.
4. **Safety:** Comply with Forest Industry Safety Accord safety leaflets.

220 Stripping topsoil

1. **General:** Before beginning general excavation or filling, strip topsoil from areas where there will be regrading, buildings, pavings/ roads and other areas shown on drawings.
2. **Depth**
 - 2.1. Remove to an average depth of 300 mm.
 - 2.2. Give notice where the depth of topsoil is difficult to determine.
3. **Handling:** Handle topsoil for reuse or sale in accordance with clause 225.
4. **Around trees:** Do not remove topsoil from below the spread of trees to be retained.
5. **Site storage:** Keep separate from excavated sub-soil

221 Treating topsoil

1. **Treatment:** Apply a suitable translocated nonresidual herbicide.
2. **Timing:** Not less than two weeks before excavating topsoil.

225 Handling topsoil

1. **Standard:** To BS 3882.
2. **Aggressive weeds**
 - 2.1. **Species:** Notify the presence of species included in the Weeds Act, section 2, or the appropriate Wildlife and Countryside Act for the relevant jurisdiction.
 - 2.2. **Give notice:** Obtain instructions before moving topsoil.
3. **Contamination:** Do not mix topsoil with:
 - 3.1. Subsoil, stone, hardcore, rubbish or material from demolition work.
 - 3.2. Other soil or material containing aggressive weeds, sharps, plastics and non soil forming materials and notifiable animal or plant diseases.
 - 3.3. Oil, fuel, cement or other substances harmful to plant growth.
 - 3.4. Other classifications of topsoil.
4. **Multiple handling:** Keep to a minimum. Use topsoil immediately after stripping.

240 Disconnection of drains

1. **General:** Locate, disconnect and seal disused drain connections. Agree where drains are to be sealed
2. **Sealing:** Permanent, and within the site

250 Permissible deviations from formation levels

1. Beneath mass concrete foundations: ± 25 mm.
2. Beneath ground bearing slabs and r.c. foundations: ± 15 mm.
3. Embankments and cuttings: ± 50 mm.
4. Ground abutting external walls: ± 50 mm, but such as to ensure that finished level is not less than 150 mm below dpc.

255 Accuracy – linear dimensions

1. Permissible deviations from linear dimensions generally: ± 20 mm

350 Existing watercourses

1. **Diverted watercourses which are to be filled:** Before filling, remove vegetable growths and soft deposits.

370 Underground structures in landscape areas

1. **Generally:** Remove walls, roads, foundations, disused services, drains, manholes and the like to minimum depth.
2. **Minimum depth below finished levels**
 - 2.1. Grass, ground cover and perennial planting: 600 mm
 - 2.2. Shrub planting: 800 mm.
 - 2.3. Within 2 m of tree planting: 1200 mm.
3. **Walls and slabs remaining:** In every 10 m² of wall or slab, make a drainage hole at least 600 mm diameter.

Disposal of materials

410 Excavated topsoil storage

1. **Storage:** Stockpile in temporary storage heaps to be agreed before any excavation takes place .

420 Topsoil storage heaps

1. **Location:** To be agreed, in locations on site which does not cause obstructions to other site operations.
2. **Standard:** To BS 3882.
3. **Height (maximum):** 2000mm
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.

421 Topsoil storage heap treatment

1. **Treatment:** Apply a suitable herbicide at appropriate times to prevent seeding of weeds

441 Surplus subsoil

1. **Excavated material:** Stockpile in temporary storage heaps.
2. **Retained material:** Spread and level surplus subsoil on site.
 - 2.1. **Locations:** To be agreed and approved.
 - 2.2. **Protected areas:** Do not raise soil level within root spread of trees that are to be retained.
3. **Remaining material:** Remove from site.

450 Water

1. **Generally:** Keep all excavations free from water until:
 - 1.1. Formations are covered.
 - 1.2. Below ground constructions are completed.
 - 1.3. Basement structures and retaining walls are able to resist leakage, water pressure and flotation.
2. **Drainage:** Form surfaces of excavations and fill to provide adequate falls.
3. **Removal of water:** Provide temporary drains, sumps and pumping as necessary. Do not pollute watercourses with silt laden water.

454 Ground water level, springs or running water

1. **Give notice:** If it is considered that the excavations are below the water table.

2. Springs/ Running water: Give notice immediately if encountered.

Filling

610 Compacted filling for landscape areas

1. Fill: Material capable of compaction by light earthmoving plant.
2. Filling: Layers not more than 200 mm thick. Lightly compact each layer to produce a stable soil structure.

615 Loose tip filling for landscape areas

1. Filling: Do not firm, consolidate or compact when laying. Tip and grade to approximate levels in one operation with minimum of trafficking by plant.

Bioremediation - Not Used

'specification for highway works: earthworks specification' appendices - Not Used

Ω End of Section

Q10

Kerbs/ edgings/ channels/ paving accessories

Types of kerbs/edgings and channels

110 A Proprietary precast concrete Highway Kerbs

1. Description: To Engineer's details
2. Standard: To BS EN 1340.

110 B Flush concrete kerbs

1. Description: To parking bay edging, pedestrian crossing point edging and edging to carriageway block paving areas.
2. Manufacturer: [Marshall's plc](#) or similar and approved
 - 2.1. Product reference: Standard Edging (Flat Top Edging)
3. Standard: To BS EN 1340:2003.
4. Physical properties
 - 4.1. Colour: Natural grey.
 - 4.2. Finish: Textured.
 - 4.3. Profile
 - 4.3.1. Designation:
 - 4.4. Dimensions: 125 x 150 x 915 mm.

110 C Flush concrete pin kerbs

1. Standard: To BS EN 1340.
2. Manufacturer: [Marshall's plc](#) or similar and approved
 - 2.1. Product reference: [Standard Edging \(Flat Top Edging\)](#)
3. Standard: To BS EN 1340:2003.
4. Physical properties
 - 4.1. Finish: Textured.
 - 4.2. Profile
 - 4.2.1. Designation: EF.
 - 4.3. Dimensions: 50 x 150 x 914 mm.

200 Metal edgings

1. Manufacturer: Kinley or similar approved
 - 1.1. Product reference: AluExcel or similar approved
2. Type/ Material: Aluminium (flexible)
 - 2.1. Finish: Mill Aluminium

Roads/paving accessories/ marking/ demarcation - Not Used

Laying

510 Laying kerbs, edgings and channels

1. Cutting: Neat, accurate and without spalling. Form neat junctions.
 - 1.1. Long units (450 mm and over) minimum length after cutting: 300 mm.

- 1.2. **Short units minimum length after cutting:** The lower of one third of their original length or 50 mm.
2. **Bedding of units:** Positioned true to line and levelled along top and front faces, in a mortar bed on accurately cast foundations or on a race of fresh concrete.
3. **Securing of units:** After bedding has set, secured with a continuous haunching of concrete or on a race of fresh concrete with backing concrete cast monolithically.

520 Adverse weather

1. **Conditions:** Do not construct if the temperature is below 3°C on a falling thermometer or 1°C on a rising thermometer. Adequately protect foundations, bedding and haunching against frost and rapid drying by sun and wind.

620 Accuracy

1. **Deviations (maximum)**
 - 1.1. **Level:** ± 6 mm.
 - 1.2. **Horizontal and vertical alignment:** 3 mm in 3 m.

625 Regularity of paved surfaces

1. **Maximum undulation of (non-tactile) paving surface:** 3 mm.
 - 1.1. **Method of measurement:** Under a 1 m straight edge placed anywhere on the surface (where appropriate in relation to the geometry of the surface).
2. **Difference in level between adjacent units (maximum)**
 - 2.1. **Joints flush with the surface:** Twice the joint width (with 5 mm max difference in level).
 - 2.2. **Recessed, filled joints:** 2 mm.
 - 2.2.1. **Recess depth (maximum):** 5 mm.
 - 2.3. **Unfilled joints:** 2 mm.
3. **Sudden irregularities:** Not permitted.

630 Narrow mortar joints

1. **Jointing:** Ends of units buttered with bedding mortar as laying proceeds. Joints completely filled, tightly butted and surplus mortar removed immediately.
 - 1.1. **Joint width:** 3 mm.

Ω End of Section

Q23

Gravel/ hoggin/ woodchip/ resin bound roads/ pavings/ overlays

Types of surfacing

140 Tarmac surface - cyclist and pedestrian footpath

1. Description: Footpath through Linear Park - refer to 1560-HED-XX-ZZ-DR-L-0105 for location
2. Manufacturer: submit proposals
 - 2.1. Product reference: submit proposals
3. Surface course: Red tarmac
4. Completion: Compact to produce a firm, regular surface, stable in use.

160 Loose gravel

1. Description: To parking courts, beneath knee rails
2. Manufacturer: submit proposals
3. Geotextile:
4. Gravel: Loose laid and raked to uniform thickness.
 - 4.1. Type: Ornamental
 - 4.2. Source: Submit proposals
 - 4.3. Colour: Buff

226 Resin-bound surfacing

1. Description: Surface course to footpaths - refer to 1560-HED-XX-ZZ-DR-L-0101 for locations and 1560-HED-XX-XX-DR-L-0501 for detail
2. Surface course
 - 2.1. Chippings:
 - 2.1.1. Colour: Buff

Laying

315 Materials

1. Compatibility: Chippings suitable for use with respective binders/ emulsions/ resin/ epoxy.

320 Samples

1. Submit: Representative samples of all aggregates.

340 Laying generally

1. Channels, gullies, etc: Keep clear.
2. Finished surfaces
 - 2.1. Lines and levels: To prevent ponding.
 - 2.2. Overall texture: Even.
 - 2.3. State at completion: Clean.

350 Cold weather working

1. Frozen materials: Do not use.
2. Freezing conditions: Do not lay pavings.
3. Cold bituminous surface dressings: Do not apply when ambient temperature is below 10°C.
4. Other dressings or overlays: As manufacturers' recommendations.

380 Laying granular surfaces in pedestrian areas and cycle tracks

1. Permissible deviation from required levels, falls and cambers (maximum): ± 12 mm.
2. General: Spread and level in 100 mm maximum layers. As soon as possible, compact each layer.
3. Dry weather: Lightly water layers during compaction.

390 Protection from traffic and plant

1. Paved areas: Restrict access to prevent damage.

Completion - Not Used

Ω End of Section

Q24

Interlocking brick/ block roads/ pavings

Types of paving

113 Concrete paving blocks

1. Description: TO CARRIAGEWAY
2. Manufacturer: [Marshalls plc](#)
 - 2.1. Contact details
 - 2.1.1. Address: Landscape House
Lowfields Business Park
Elland
West Yorkshire
HX5 9HT
 - 2.1.2. Telephone: [+44 \(0\)330 0574472](tel:+44(0)3300574472)
 - 2.1.3. Web: <https://www.marshalls.co.uk>
 - 2.1.4. Email: specification.support@marshalls.co.uk
 - 2.2. Product reference: [Keyblok Linear](#)
3. Standard: To BS EN 1338.
4. Physical properties
 - 4.1. Colour: Brindle.
 - 4.2. Profile
 - 4.2.1. Paver type: Regular plan form.
 - 4.2.2. Arrises: Pencil edged.
 - 4.3. Dimensions and associated tolerances
 - 4.3.1. Nominal sizes: 200 x 50 x 80 mm.
5. Jointing
 - 5.1. Material: In accordance with [BS 7533-3](#).
 - 5.2. Joint width: 2-5 mm.
6. Setting out
 - 6.1. Bond: Herringbone

115 Permeable concrete paving blocks

1. Description: TO PARKING BAYS
 2. Manufacturer: [Marshalls plc](#)
 - 2.1. Contact details
 - 2.1.1. Address: Landscape House
Lowfields Business Park
Elland
West Yorkshire
HX5 9HT
 - 2.1.2. Telephone: [+44 \(0\)330 0574472](tel:+44(0)3300574472)
 - 2.1.3. Web: <https://www.marshalls.co.uk>
 - 2.1.4. Email: specification.support@marshalls.co.uk
 - 2.2. Product reference: [Piora Permeable](#)
 3. Standard: To BS EN 1338.
 4. Physical properties
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- 4.1. Colour: Brindle.
- 4.2. Finish: Permeable.
- 4.3. Profile
 - 4.3.1. Paver type:
- 4.4. Dimensions and associated tolerances
 - 4.4.1. Nominal sizes: 200 x 100 x 80 mm.
- 5. Jointing
 - 5.1. Material: Single size 5 mm washed aggregate
 - 5.2. Joint width: 6 mm
- 6. Setting out
 - 6.1. Bond: Herringbone bond. Single stretcher course along top and bottom edge of parking bays
- 7. Accessories: Individual pavers in contrasting colour used to demarcate parking bays

Execution

200 Execution generally – concrete block and clay paver paving

- 1. Standard: In accordance with [BS 7533-3](#).

211 Colour banding

- 1. General: Unless premixed by manufacturer, select blocks/ pavers/ setts from at least Three separate packs in rotation, to avoid colour banding.

220 Samples

- 1. General: Before ordering, submit samples of all blocks/ pavers/ setts that are representative of colour and appearance.

240 Adverse weather

- 1. General: Do not use frozen materials or lay bedding on frozen or frost covered sub-bases.

500 Regularity of paved surfaces

- 1. Maximum variation in gap under a 3 m straight edge placed anywhere on the surface (where appropriate in relation to the geometry of the surface)
 - 1.1. Precast concrete paving blocks and clay pavers for flexible pavements: 10 mm.
- 2. Difference in level between adjacent paving units (maximum): 2 mm.
- 3. Sudden irregularities: Not permitted.

Completion

615 Completion of paving

- 1. Final compaction of the surface course: In accordance with [BS 7533-3](#).
- 2. Vacuum cleaning machines: Not allowed.

Ω End of Section

Q25

Slab/ brick/ sett/ cobble pavings

General - Not Used

System performance - Not Used

Products

315 Concrete flags

1. Description: To residential entrances
2. Standard: To [BS EN 1339](#).
 - 2.1. Manufacturer: [Tobermore](#)
 - 2.1.1. Contact details
 - 2.1.1.1. Address: 2 Lisnamuck Road
Tobermore
Co L'derry
BT45 5QF
 - 2.1.1.2. Telephone: [+44 \(0\)844 800 5736](tel:+44(0)8448005736)
 - 2.1.1.3. Web: <https://www.tobermore.co.uk/professional/>
 - 2.1.1.4. Email: b.developmentteam@tobermore.co.uk
 - 2.1.2. Product reference: [Mayfair Paving Slabs | Concrete Paving Slab \(Oat colour\)](#)
 - 2.2. Standard: To BS EN 1339.
 - 2.3. Physical properties
 - 2.3.1. Colour: Oat.
 - 2.3.2. Finish: Granite aggregate.
 - 2.3.3. Dimensions and associated tolerances
 - 2.3.3.1. Nominal sizes: 400 x 400 x 50 mm.
 - 2.4. BREEAM rating: A (A+ can be achieved when used with recycled sub-base).
 - 2.5. Surface finish: Hard wearing surface layer with a minimum layer of 4 mm and >390 kg/m³ cement.

320 A Concrete tactile flags

1. Material: Precast concrete
 - 1.1. Manufacturer: [Marshalls plc](#)
 - 1.1.1. Contact details
 - 1.1.1.1. Address: Landscape House
Lowfields Business Park
Elland
West Yorkshire
HX5 9HT
 - 1.1.1.2. Telephone: [+44 \(0\)330 0574472](tel:+44(0)3300574472)
 - 1.1.1.3. Web: <https://www.marshalls.co.uk>
 - 1.1.1.4. Email: specification.support@marshalls.co.uk
 - 1.1.2. Product reference: [Tactile Blister \(400 x 400 x 65 mm\)](#)
 - 1.2. Physical properties
 - 1.2.1. Colour: Buff.

- 1.2.2. Profile
 - 1.2.2.1. Flag type: Regular plan form.
- 1.2.3. Dimensions and associated tolerances
 - 1.2.3.1. Nominal sizes: 400 x 400 x 50 mm.
- 1.2.4. Abrasion resistance: ≤23 mm.

320 B Concrete tactile flags

- 1. Material: Precast concrete
 - 1.1. Manufacturer: [Marshalls plc](#)
 - 1.1.1. Contact details
 - 1.1.1.1. Address: Landscape House
Lowfields Business Park
Elland
West Yorkshire
HX5 9HT
 - 1.1.1.2. Telephone: [+44 \(0\)330 0574472](tel:+44(0)3300574472)
 - 1.1.1.3. Web: <https://www.marshalls.co.uk>
 - 1.1.1.4. Email: specification.support@marshalls.co.uk
 - 1.1.2. Product reference: [Cycleway Tactile](#)
 - 1.2. Standard: To BS EN 1338.
 - 1.3. Physical properties
 - 1.3.1. Colour: Buff.
 - 1.3.2. Profile
 - 1.3.2.1. Flag type: Solid unit with profiled surface.
 - 1.3.3. Dimensions and associated tolerances
 - 1.3.3.1. Nominal sizes: 400 x 400 x 50 mm.
 - 1.4. BREEAM rating: A.

Execution

610 Material samples

- 1. Samples representative of colour and appearance of designated materials: Submit before placing orders.

620 Adverse weather

- 1. General
 - 1.1. Temperature: Do not lay or joint paving if the temperature is below 3°C on a falling thermometer or below 1°C on a rising thermometer.
 - 1.2. Frozen materials: Do not use. Do not lay bedding on frozen or frost covered bases.
- 2. Paving with mortar joints and/ or bedding
 - 2.1. Protect from frost damage, rapid drying out and saturation until mortar has hardened.
- 3. Paving laid and jointed in sand/ fine aggregate
 - 3.1. Stockpiled laying course sand/ fine aggregate: Protect from saturation.
 - 3.2. Exposed areas of unbound laying course and uncompacted areas of unbound paving: Protect from heavy rainfall.
 - 3.3. Saturated unbound laying course: Remove and replace, or allow to dry before proceeding.

- 3.4. **Laying dry sand/ fine aggregate jointed paving in damp conditions:** Brush in as much jointing sand as possible. Minimize site traffic over paving. As soon as paving is dry, top up joints and complete compaction.

625 Laying pavings – general

1. **Appearance:** Smooth and even with regular joints and accurate to line, level and profile.
2. **Falls:** To prevent ponding.
3. **Bedding of paving units:** Firm so that rocking or subsidence does not occur or develop.
 - 3.1. **Bedding/ Laying course:** Consistently and accurately graded, spread and compacted to produce uniform thickness and support for paving units.
4. **Slopes:** Lay paving units upwards from the bottom of slopes.
5. **Paving units:** Free of mortar and sand stains.
6. **Cutting:** Cut units cleanly and accurately, without spalling, to give neat junctions with edgings and adjoining finishes.

635 Regularity of paved surfaces

1. **Maximum variation in gap under a 3 m straight edge placed anywhere on the surface (where appropriate in relation to the geometry of the surface)**
 - 1.1. **Precast concrete paving blocks and clay pavers for flexible pavements:** 10 mm.
 - 1.2. **Precast concrete flags or natural stone slabs:** 3 mm.
2. **Difference in level between adjacent paving units (maximum):** 2 mm.
3. **Sudden irregularities:** Not permitted.

637 Regularity of paved surfaces

1. **Maximum undulations in the surface of pavings (except tactile paving surfaces) under a 1 m straight edge placed anywhere on the surface (where appropriate in relation to the geometry of the surface):** 3 mm.
2. **Joints between paving units or utility access covers**
 - 2.1. **Joints flush with the surface:** Difference in level between adjacent units to be no more than twice the joint width (with a 5 mm maximum difference in level).
 - 2.2. **Recessed, filled joints:** Difference in level between adjacent units to be no greater than 2 mm; the recess to be no deeper than 5 mm.
 - 2.3. **Unfilled joints:** Difference in level between adjacent units to be no greater than 2 mm.
3. **Sudden irregularities:** Not permitted.

640 Colour banding

1. **General:** Unless premixed by manufacturer, select from at least 3 separate packs in rotation to avoid colour banding.

645 Protection

1. **Cleanliness:** Keep paving clean and free from mortar droppings, oil and other materials likely to cause staining.
2. **Materials storage:** Do not overload pavings with stacks of materials.
3. **Handling:** Do not damage paving unit corners, arrises, or previously laid paving.
4. **Access:** Restrict access to paved areas to prevent damage from site traffic and plant.

Completion

915 Completion of paving with dry sand or fine aggregate-filled joints

1. Final compaction of the surface course: In accordance with [BS 7533-3](#).
2. Vacuum cleaning machines: Not allowed.

Ω End of Section

Q28

Topsoil and soil ameliorants

System outline

115 Topsoil system for turfing and seeding

1. Description: To seeded areas
2. Composition
 - 2.1. Topsoil: Submit proposals.
 - 2.2. Ameliorants: None.

135 Planting bed topsoil system

1. Description: To all planting beds for shrubs and hedges
2. Composition
 - 2.1. Topsoil: Imported topsoil to [BS 3882](#).
 - 2.2. Ameliorants: Sanitized and stabilized composted materials certified to [PAS 100](#).
 - 2.3. Accessories: Mycorrhizal inoculant.

145 Planting pit backfilling topsoil system

1. Description: To tree pits
2. Composition
 - 2.1. Topsoil: Imported topsoil to [BS 3882](#).
 - 2.2. Ameliorants: Sanitized and stabilized composted materials certified to [PAS 100](#).
 - 2.3. Accessories: Mycorrhizal inoculant.

155 Mulching and top dressing system

1. Description: To trees, shrubs, groundcover and hedges
2. Composition
 - 2.1. Material: Organic materials.

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.

310 Materials not permitted

1. **Materials:** Peat and Products containing peat

315 Imported topsoil to BS 3882

1. **Description:** To all planting requirements
2. **Quantity:** Provide as necessary to make up any deficiency of topsoil existing on site and to complete the work.
3. **Standard:** To BS 3882.
4. **Classification:** Multipurpose.
 - 4.1. **Soil textural class** to BS 3882, Figure 1: Sandy loam.
5. **Source:** Submit proposals.
 - 5.1. **Product reference:** Submit proposals.

Execution

610 Topsoil analysis

1. **Soil to be analysed:** Imported topsoil.
2. **Soil analyst:** To be advised by Client
3. **Samples:** Collect in accordance with BS 3882.
4. **Submit**
 - 4.1. **Declaration of analysis:** In accordance with BS 3882, clause 6 and Table 1.
 - 4.2. **Additional analysis:** Chemical analysis.
 - 4.3. **Report detailing soil analyst's recommendations.**

620 Importing topsoil

1. **Give notice:** Before stripping topsoil for transfer to site.
 - 1.1. **Notice period:** 14 days.

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):** 75 mm
5. **Container planting:** Remulch.
 - 5.1. **Depth (minimum):** 50 mm

Ω End of Section

Q30

Seeding/ turfing

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

212 Seed bed cleaning before sowing

1. **Description:** ALL GRASS AREAS
2. **Operations:** As the seed supplier's recommendations.

250 Soil requirements

1. Type
 - 1.1. **Seeded areas:** Soil for grass swards, as section Q28

Seeding

310 Grass seed

1. Description: To mown amenity grass areas and residential lawns
2. Mixture: Species Rich Mix
3. Application rate: 10–20 g/m²

312 Wildflower seed mixture

1. Description: Wildflower meadow
2. Supplier: DLF Seeds or similar approved
 - 2.1. Mixture reference: Pro Flora 10 - General Purpose Plus Annuals or similar approved
3. Application rate: 5–10 g/m²

312 Tussock grassland seed mix

1. Description: Tussock grassland meadow
2. Supplier: DLF Seeds or similar approved
 - 2.1. Mixture reference: Pro Flora 14 - Tall Herb & Tussock or similar approved
3. Application rate: 5–10 g/m²

319 Quality of seed

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

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: To seed supplier's recommendations or Four equal sowings

335 Grass sowing season

1. Grass seed generally: April to October

336 Wildflower sowing season

1. Wildflower seed generally: Typically March to May or September to November. Check with Seed supplier's recommendation

Turfing - Not Used

Protecting/cutting

530 First cut of grassed areas

1. Timing: When grass is reasonably dry.
 - 1.1. Height of initial growth: 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: 50 mm
4. Mower type: Contractor's choice
5. Arisings: Remove from the site

540 A First cut of wildflower areas of attenuation basin

1. Description: Water edge wildflower mixture
2. Height of initial growth: 75 mm
3. Debris and litter: Remove.
 - 3.1. Stones and earth clods larger than 25 mm in any dimension: Remove
4. Height of first cut: 40 mm
5. Mower type: Contractor's choice
6. Arisings: Remove from the site

540 B First cut of wildflower areas

1. Description: Other meadow mixes
2. Height of initial growth: 75 mm
3. Debris and litter: Remove.
 - 3.1. Stones and earth clods larger than 25 mm in any dimension: Remove
4. Height of first cut: 50 mm
5. Mower type: Contractor's choice
6. Arisings: Remove from the site

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

610 Failures of seeding/ turfing

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

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. Preparation: Before each cut, remove all litter and debris.
4. Cutting: as and when necessary to a height of: 50 mm.
 - 4.1. Arisings: Remove
5. Bulb planting areas: Do not cut until bulb foliage has died down.

6. Trimming: All edges.
 - 6.1. Arisings: Remove.
7. Weed control: Substantially free of broad-leaved weeds.
 - 7.1. Method: Application of a suitable selective herbicide.
8. Stones brought to the surface: Remove regularly.
 - 8.1. Size: Exceeding 25 mm in any dimension.
9. Areas of settlement: Make good.
10. Watering: As required

Ω End of Section

Q31

External planting

General information/ requirements

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. Aquatic plants: May/ June or September/ October

130 Mechanical tools

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

145 General watering

1. Quantity: Wet full depth of topsoil
2. Application: Even, and without damage or displacement of plants or soil
3. Frequency: As necessary to ensure that plant is established and continues to thrive

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

200 Plants/ trees – general

1. Standard: The [National Plant Specification](#)
2. Condition: Materially undamaged, sturdy, healthy and vigorous
3. Appearance: Of good shape and without elongated shoots
4. Hardiness: Grown in a suitable environment and hardened off
5. Health: Free from pests, diseases, discoloration, weeds and physiological disorders
6. Root system and condition: Balanced with branch system
7. Species: True to name
8. Origin/ provenance: Grown in the United Kingdom for at least one growing season, unless otherwise approved
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](#).
2. Name, forms, dimensions and other criteria: To [BS 3936-1](#) 'Trees and shrubs'

Plant containers - Not Used

Preparation of planting beds/ planting materials

385 Mulch matting/ geotextile fabric

1. Description:
2. Manufacturer: Submit proposals
 - 2.1. Product reference: Submit proposals
3. Type:
4. Recycled content:
5. Timing:
6. Watering:
7. Laying:
8. Planting:
9. Overlay:
10. Verification:
 - 10.1. Submittals:
 - 10.2. Timing:

390 Geotextile fabric lining for aquatic/ marginal planting

1. Description:
2. Manufacturer: Submit proposals
 - 2.1. Product reference: Submit proposals
3. Lining:
4. Timing:
5. Laying:
6. Planting:
7. Verification:
 - 7.1. Submittals:
 - 7.2. Timings:

Planting shrubs/ herbaceous plants/ bulbs

400 Random plant layout

1. Description: To planting areas
2. Spacing: Random groups of three to 11 plants of the same species.
3. Density: As plant schedule

Planting trees

500 Tree planting

1. Standard: Prepare trees and transplant in accordance with [BS 8545](#)

505 A Tree pit (in hard landscape)

1. Manufacturer: [GreenBlue Urban Ltd](#)
2. Contact details

- 2.1. Address: Northpoint
Compass Park
Junction Road
Bodiam
East Sussex
TN32 5BS
- 2.2. Telephone: +44 (0)1580 830800
- 2.3. Web: www.greenblue.com
- 2.4. Email: hello@greenblueurban.com
- 3. Product reference: [SuDS RootSpace \(GBURS41A\)](#) or Similar and Approved
- 4. Preparatory work to soil
 - 4.1. Herbicide:
 - 4.2. Fertilizer: RootStart Mycorrhiza fungi.
- 5. Tree pit
 - 5.1. Drainage
 - 5.1.1. Geotextile membrane below drainage layer: To engineer's requirements
 - 5.1.2. Drainage layer: Clean angular drainage stone.
 - 5.1.3. Collector drains: To engineer's requirements
 - 5.1.4. Drainage outlets: To engineer's requirements
 - 5.1.5. Geotextile membrane above drainage layer: 20 mm GeoGrid - GRN20A.
 - 5.2. Root barriers: As required
 - 5.3. Underground supports: Tree anchoring system - Platimat or similar approved
 - 5.4. Irrigation and aeration accessories: RootRain ArborVent.
 - 5.5. Geocellular structural soil layer
 - 5.5.1. Geotextile membrane below geocellular structural soil layer: 20 mm GeoGrid - GRN20A.
 - 5.5.2. Geocellular structural soil units: RootSpace Structure - GBURS41A.
- 6. Tree grilles and surrounds: Tree grilles.
- 7. Protection: Tree guards.
- 8. Sloping ground: Maintain horizontal bases and vertical sides with no less than minimum depth throughout
- 9. Excavated material: Separate topsoil and subsoil material and stockpile for backfilling
- 10. Pit bottoms: excavate with slightly raised centre: Break up base to a depth of 200 mm
 - 10.1. Treatment: Soil ameliorant worked into pit bottoms
- 11. Pit sides: Scarify
- 12. Backfilling material: Topsoil, as section Q28

505 A Tree pit (in soft landscape)

- 1. Preparatory work to soil
 - 1.1. Herbicide:
 - 1.2. Fertilizer: RootStart Mycorrhiza fungi.
- 2. Tree pit
 - 2.1. Drainage
 - 2.1.1. Geotextile membrane below drainage layer: To engineer's requirements
 - 2.1.2. Drainage layer: Clean angular drainage stone.
 - 2.1.3. Collector drains: To engineer's requirements

- 2.1.4. Drainage outlets: To engineer's requirements
- 2.1.5. Geotextile membrane above drainage layer: 20 mm GeoGrid - GRN20A.
- 2.2. Root barriers: As required
- 2.3. Underground supports: Tree anchoring system - Platimat or similar approved
- 2.4. Irrigation and aeration accessories: RootRain ArborVent.
- 3. Sloping ground: Maintain horizontal bases and vertical sides with no less than minimum depth throughout
- 4. Excavated material: Separate topsoil and subsoil material and stockpile for backfilling
- 5. Pit bottoms: excavate with slightly raised centre: Break up base to a depth of 200 mm
 - 5.1. Treatment: Soil ameliorant worked into pit bottoms
- 6. Pit sides: Scarify
- 7. Backfilling material: Topsoil, as section Q28

505 C Tree pit subsoil

- 1. Manufacturer: [Bourne Amenity limited](#) or Similar and approved
- 2. Contact details
 - 2.1. Address: Rye Road
Newenden
Kent
United Kingdom
TN18 8QG
 - 2.2. Telephone: [01797 252 299](tel:01797252299)
 - 2.3. Web: <https://bourneamenity.co.uk/>
 - 2.4. Email: info@bourneamenity.co.uk
- 3. Product reference: [Washed Sand Subsoil](#)
- 4. Parameters
 - 4.1. Soil textural class: Sand.
 - 4.2. Soil pH: 7.9

510 Tree pit root barriers

- 1. Description: To all tree pits adjacent to services
- 2. Manufacturer: GreenBlue Urban Ltd or similar approved
 - 2.1. Product reference: ReRoot 2000 or similar approved
- 3. Top of root barrier in relation to finished topsoil level: Flush
- 4. Installation: With sides vertical. Remove all sharp objects adjacent to barrier

512 Tree pit irrigation and ventilation accessories

- 1. Description: To all tree pits
- 2. Manufacturer: GreenBlue Urban Ltd or similar approved
 - 2.1. Product reference:
- 3. Type: Perforated plastics pipe, in circle above and around sides of rootball, with plastic inlet cap at surface
- 4. Pipe diameter: 50 mm
- 5. Ring diameter:
- 6. Inlet:
- 7. Installation

- 7.1. Pipe: Lay in loop above root ball with slight fall away from inlet pipe. Trim length to ensure a close fit in the tree pit. Connect both ends of pipe securely into plastics tee junction on inlet
- 7.2. Top cap of inlet: Protruding slightly above finished surround level
- 7.3. Backfill material: Carefully compact in layers

515 Tree pit drainage

1. Description: Where required
2. Aggregate layer: Clean gravel or broken stone, with no fines, graded 40 to 20 mm
 - 2.1. Depth: 200 mm
3. Drainage pipes
 - 3.1. Type: Perforated plastics
 - 3.2. Diameter: Submit proposals
 - 3.3. Position: Lay around perimeter of pit within aggregate layer
 - 3.4. Discharge: Submit proposals
4. Geotextile filter: Submit proposals
 - 4.1. Position: Lay over aggregate before installing tree or backfill
5. Completed pits: Test for free drainage before planting

526 Underground guying

1. Description: For large trees
2. Manufacturer: Submit proposals
 - 2.1. Product reference: Submit proposals
3. Anchoring system: Three no. timber dead-man anchors
4. Installation: Ensure that tree is positioned correctly and vertically, prior to tightening of guy line tensioners

535 Tree stakes

1. Description: To smaller trees
2. Stakes: Softwood, peeled chestnut, larch or oak; straight, free from projections and large or edge knots, and with pointed lower end
 - 2.1. Preservative treatment: Submit proposals
3. Stake size (minimum): 75 mm diameter
4. Stake length (minimum): Submit proposals

Woodland/ matrix/ buffer zone planting - Not Used

Protecting/ maintaining/ making good defects

780 Maintenance instructions

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

Ω End of Section

Q35

Landscape maintenance

Generally

105 Maintenance objectives

1. Location: All newly
 - 1.1. Duration: Two years
2. Aims: Improved landscape visual amenity and successful establishment
3. Results: Established landscape scheme which is thriving, well tended, healthy and vigorous

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: Seven days

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 full depth of topsoil
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: Remove to recycling facility
 - 1.2. Grass cuttings: Remove to recycling facility
 - 1.3. Tree roots and stumps: Remove from site
 - 1.4. Shrub and tree prunings: Remove to recycling facility
 - 1.5. Litter and nonbiodegradable arisings: Remove from site

181 Mechanical equipment

1. General: Minimize.
2. Timing: Use of mechanical equipment allowed between the hours of 10:00 am and 4:00 pm only. To be agreed with client.

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 Performance-based 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.

225 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. Complete operations close to stems using hand tools

235 Bulbs and corms in grassed areas

1. **Before flowering:** Do not cut.
2. **Interval between end of flowering and start of grass cutting (minimum):** 6 weeks

240 Mowing strips

1. Location: Along the pathways and base of walls, fences and hedges
2. Width (approximate): 300 mm.
3. Operations: Mechanical strimming or mowing

250 Leaf removal

1. Operations: Collect fallen leaves.
2. Special requirements: None
3. Disposal: Remove from site for recycling

255 First cut of

1. Description: ALL GRASSED AREAS
2. Height of initial growth: 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 Verges and Amenity Areas

1. Grass height: Maintain between 25 and 50 mm
2. Arisings: Remove for composting on site

265 Mowing general areas to Public Open Space

1. Grass height: Maintain between 25 and 50 mm
2. Arisings: Remove for composting on site

270 Mowing rough-grassed areas

1. Grass height: 75 mm maximum
2. Arisings: Remove for composting on site

295 Spiking

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

350 Fertilizer – spring application

1. Type: Organic
2. Application rate: 60 g/m²

375 Pest control

1. Location: If required
2. Treatment: Fungicide & Insecticide
 - 2.1. Manufacturer: Submit proposals

2.1.1. Product reference: Submit proposals

3. Timing: As manufacturer's recommendation, with prior agreement of client

380 Reinstatement of damaged lawns

1. Damaged turf: Remove to a depth of 40 mm.
2. Preparation: Cultivate substrate to a fine tilth.
3. Reinstatement: Contractor's choice of returfing or topsoiling and reseeding:
 - 3.1. Returfing: Quality and appearance to match existing.
 - 3.2. Reseeding: Fill with fine topsoil to BS 3882 multipurpose class, free from stones, debris and weeds. Reseed with a seed mix to match existing grass in quality and appearance.
4. Protection and watering: Provide as necessary to promote successful germination and/ or establishment.

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

470 Flower beds generally

1. Operations
 - 1.1. Remove: Dead flower heads, fallen leaves, litter and debris.
 - 1.2. Weeds: Thoroughly hand-weed.
 - 1.3. Cultivate: Lightly hoe.
 - 1.4. Trim: Clip grass edges.

490 Thinning by removal of surplus plants

1. Plants to be thinned: Shrub beds
2. Standard: BS 7370-4, clause 3.5.17.1.
3. Timing: Thin when foliage of adjacent plants has begun to touch.
4. Roots
 - 4.1. Disturbance to adjacent plants: Minimize.
 - 4.2. Soil: Refill holes with topsoil to leave an even-graded surface.
 - 4.3. Mulch: Maintain mulch as original specification.
5. Adjacent plants: Make good any minor damage immediately.
6. Plants for retention: Select plants with a strong healthy habit.

Shrubs/ trees/ hedges

500 Establishment of new planting

1. Duration: Two years from Practical Completion / start of Rectification Period
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:** As required for plants to thrive and when instructed

502 Establishment of new planting – fertilizer

1. **Time of year:** March or April.
2. **Type:** Organic
3. **Spreading:** Spread evenly.
 - 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.

515 Tree guy wires

1. **Inspection/ maintenance times:** Immediately after strong winds
2. **Operations**
 - 2.1. Replace or resecure loose or missing guy wires.
 - 2.2. Adjust to suit stem growth and to provide correct and uniform tension.
3. **Removal:** When instructed

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.

535 Tree grilles

1. **Operations:** Lift grilles, remove weeds, adjust levels as necessary and lightly compact. Refit grilles, refill interstices and lightly compact to correct level.
2. **Material for making up levels and refilling:** Sharp sand

537 Nesting wild birds

1. **Survey:** Before starting hedge or tree work during the period of February to August (inclusive), carry out a survey by a qualified ecologist and submit report

2. **Accidental disturbance:** Report immediately.

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 ensuring health and vitality of species
2. **Operations:** Remove growth encroaching onto grassed areas, paths, roads, signs, sightlines and road lighting luminaires.

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.

600 Trimming rapidly establishing hedges

1. General: Allow to reach planned height as rapidly as possible.
 - 1.1. Form: Trim back lateral branches moderately.

605 Trimming slowly establishing hedges

1. Operations
 - 1.1. Timing: Cut back hard in June and September to encourage bushy growth down to ground level.
 - 1.2. Form: Allow to reach planned dimensions only by gradual degrees, depending on growth rate and habit.

615 Trimming field hedges

1. Operations: Trim to specified height and profile using suitable mechanical cutters.

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 Stainless steel wire.
3. Supporting structures: Check and repair as necessary.

630 Dead and diseased plants

1. Removal: Within one week of notification
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: Submit proposals
5. Dressing: Slow-release fertilizer:
 - 5.1. Type: Organic
 - 5.2. Application rate: As manufacturer's recommendations

640 Thinning by removal of surplus plants

1. Plants to be thinned: Planting 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: Minimize.
 - 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 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: Reinstate to original depth.

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.

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. Arisings (if any): Spread evenly over the bed.

690 Maintenance of loose mulch

1. Thickness (minimum): 50 mm
 - 1.1. Top up: Every three months
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 Hand-weeding.

695 Fertilizing established trees and shrubs

1. Time of year: April through July
2. Type of fertilizer: Organic

3. **Application:** Spread evenly. Spread evenly.
- 3.1. **Rate:** As manufacturer's recommendations

700 Snow removal from shrubs/ trees

1. **Standard:** To BS 7370-4.
2. **Plants subject to snow removal:** All evergreens
3. **Timing:** Within 24 hours of snowfall

705 Winter leaf removal

1. **Operations:** Take down temporary leaf fences. Collect accumulations of drifted leaves from the vicinity and from planting beds.
2. **Arisings:** Remove

Green walls - Not Used

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. **Standard:** To BS 3998.
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.

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.

845 Crown lifting

1. Clearances: Remove branch systems to give clearance.
 - 1.1. Height: As recommended by Arboricultural Consultant
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.

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. Standard: To BS 3998.
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

895 Clearance of watercourses

1. **Clearance:** Remove litter, debris, accumulated silt and excessive vegetation causing an obstruction.
2. **Frequency:** As per Ecologist's schedule
3. **Time of year:** To Ecologist's recommendations
4. **Method:** To Ecologist's recommendations
 - 4.1. **Access:** From one bank only.
 - 4.2. **Position:** At least 1 m from the top of the bank.
5. **Phasing:** To Ecologist's recommendations

Hard landscape areas/ fencing

900 Snow clearance

1. **Clearance:** When instructed
2. **De-icing:** To footpaths
 - 2.1. **Timing:** When instructed

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

Q40 Fencing

Fencing systems

220 Steel estate fencing

1. Description: Fencing integrated with double-staggered hedge along boundary adjacent to Barley Fields
2. Manufacturer: submit proposals
 - 2.1. Product reference: submit proposals
3. Height: 1500 mm
4. Posts and bars
 - 4.1. Corner/ End posts: Square hollow section
 - 4.2. Intermediate bars/ Joiner posts: Flat
 - 4.3. Finish: Powder-coated galvanised steel
 - 4.3.1. Colour: Black

430 Timber knee rail fence

1. Description: As shown on drawings - refer to 1560-HED-XX-ZZ-DR-L-0105 for locations and 1560-HED-XX-XX-DR-L-0503 for details
2. Manufacturer: [Jacksons Fencing](#) or similar approved
 - 2.1. Product reference: [Demarcation Devices \(Diamond rail fencing\)](#) or similar approved
3. Posts: 450mm high x 100mm wide
4. Rails: 1800 mm-long (640300).
5. System accessories: Galvanized strap (201100).

Gates, posts and stiles - Not Used

Accessories - Not Used

Execution - Not Used

Completion

910 Cleaning

1. General: Leave the works in a clean, tidy condition
2. Surfaces: Clean immediately before handover

920 Fixings

1. All components: Tighten
 - 1.1. Timing: Before handover

Ω End of Section

Q50 Site/ street furniture/ equipment

Gates, barriers and parking controls

190 Timber bollards

1. Manufacturer: [Woodscape Ltd](#) or similar and approved
 - 1.1. Product reference: [Square Profile Bollard \(Finished height: 900 mm\)](#) or similar approved
2. Timber
 - 2.1. Species: Naturally Very Durable Hardwood.
 - 2.2. Strength class: D60 to BS EN 338.
 - 2.3. Third party certification: Forest Stewardship Council (FSC).
3. Dimensions
 - 3.1. Size and profile: 125 mm.
 - 3.2. Height: 950 mm (above ground level)
4. Top profile: Point (Pyramid)
5. Base: Flat.
6. Finishes
 - 6.1. Worked finish: Sanded and radiused.
7. Accessories: Reflective bands.

Site and street furniture

220 Timber benches

1. Description: Refer to 1560-HED-XX-ZZ-DR-L-0101 for locations
2. Manufacturer: [Broxap Street Furniture](#) or similar and approved
3. Material: Steel and FSC certified hardwood
4. Finish as delivered: Galvanized and powder-coated.
5. Colours: To be confirmed

230 Picnic tables - refer to 1560-HED-XX-ZZ-DR-L-0101 for locations

1. Manufacturer: Broxap or similar approved
 - 1.1. Product reference: Whitwell Timber Picnic Unit or similar approved
2. Material: FSC certified hardwood

240 Litter bins

1. Manufacturer: Bailey Street Furniture Group or similar approved
 - 1.1. Product reference: Bradford Stainless Steel Litter Bin or similar approved
2. Material: Stainless steel

260 Tree guards

1. Description: For trees in parking courts, where required
2. Manufacturer: [GreenBlue Urban Ltd](#) or similar and approved
 - 2.1. Product reference: [Vertical Steel Tree Guards \(ULLSSP6A - Ullswater 600 mm\)](#)
3. Material: Steel.
4. Finish: Polyester powder-coated.

5. Colour: Black.
6. Plan size: 600 mm diameter.
7. Height: 1800 mm.
8. Mounting: Adjustable fixing brackets.
9. Additional requirements: Guard to grille fixing pack.

262 Tree grilles

1. Description: To trees in parking courts, where required
2. Manufacturer: [GreenBlue Urban Ltd](#) or similar and approved
 - 2.1. Product reference: [FTS Tree Grilles \(CLYDE12GB\)](#) or similar and approved
3. Material: Mild galvanized steel.
4. Finish: Powder-coated.
5. Shape: Square.
6. Internal aperture: 600 mm.
7. Accessories: Guards to grille fixing pack.
8. Load capacity: To Engineer's requirements
9. Options: Heel safe/ DDA.
10. Components: Galvanized steel segments, galvanized steel frame, RootRain Hydrogrille irrigation system, stainless steel fixings.

Installation

550 Damage to galvanized surfaces

1. Minor damage in areas up to 40 mm² (including on fixings and fittings): Make good.
 - 1.1. Material: Low melting point zinc alloy repair rods or powders made for this purpose or at least two coats of zinc-rich paint to BS 4652.
 - 1.2. Thickness: Sufficient to provide a zinc coating at least equal to the original layer.

Ω End of Section

Q52

Play and sports equipment

Clauses - Not Used

General

115 Informal play equipment

1. Description: Informal timber play and play-on-the-way equipment
2. Equipment: Refer to 1560-HED-XX-ZZ-DR-L-0101 for indicative proposals
3. Manufacturer: Kompan or similar approved

System performance - Not Used

Products

320 Balance beam and balance posts

1. Standard: To [BS EN 1176-1](#).
2. Manufacturer/ supplier: Kompan or similar approved
3. Materials: Wood

340 Combined play structure

1. Standard: To [BS EN 1176-1](#).
2. Manufacturer/ supplier: Kompan or similar approved
3. Materials: Wood

Execution

710 Play equipment installation generally

1. Standard: To manufacturer's written instructions provided in accordance with [BS EN 1176-1](#).

720 Concrete foundations generally

1. Standard: To [BS 8500-2](#).
2. Concrete: Designated, not less than GEN 1 or Standard prescribed, not less than ST2.
3. Depth of foundations, bedding, haunching: Appropriate to provide adequate support and to receive overlying soft landscape or paving finishes.

730 Setting components in earth

1. Holes: As small as practicable.
2. Components being fixed: Accurately positioned and securely supported.
3. Buried depth (minimum): As required to ensure safety
4. Earth refilling: Well rammed as filling proceeds.

740 Preservative treated timber

1. Surfaces exposed by minor cutting and drilling: Treated by immersion or with two flood coats of a solution recommended for the purpose by main treatment solution manufacturer.

760 Site painting

1. **Timing:** Prepare surfaces and apply finishes as soon as possible after installing components.

Completion

910 Inspection

1. **Standard:** In accordance with equipment manufacturer's maintenance and inspection instructions
2. **Timing:** 2 weeks prior to date when work is expected to be practically complete
3. **Period of notice (minimum):** 3 working days.

920 Cleaning

1. **General:** Leave the works in a clean, tidy condition.
2. **Surfaces:** Clean immediately before handover.

930 Testing

1. **Standard:** To [BS EN 1176-1](#).

950 Documentation

1. **Standard:** To [BS EN 1176-1](#)
2. **Contents**
 - 2.1. Copies of test reports.
 - 2.2. General product information.
 - 2.3. Installation information.
 - 2.4. Inspection and maintenance information.
3. **Number of copies:** 3
4. **Submission:** 2 weeks prior to date when work is expected to be practically complete

Ω End of Section

Q55

External decks, boardwalks and bridges

Tendering - Not Used

General

130 Pedestrian / Cyclist Bridge (DESIGN INTENT)

1. **Description:** Refer to 1560-HED-XX-ZZ-DR-L-0101 for location and 1560-HED-XX-XX-DR-L-0504 for design intent detail
2. **Width:** 3000mm
3. **Span:** To allow for safe crossing over watercourse
4. **Structure, other than surfacing:** FSC certified timber handrails, posts and rails. Structural support, fixings and foundations to Engineer's detail and specification
 - 4.1. **Fasteners:** To Engineer's detail and specification
5. **Post setting:** Posts set in concrete foundations, to Engineer's detail and specification
6. **Surfacing:** Composite decking boards
 - 6.1. **Method of attachment:** Submit proposals
7. **Guarding:** Required

131 Natural Stone Stepping Stones

1. **Description:** Stepping stones across watercourse. Refer to 1560-HED-XX-ZZ-DR-L-0101 for location and 1560-HED-XX-XX-DR-L-0504 for design intent detail
2. **Width:** To allow for safe crossing across watercourse
3. **Span:** To allow for safe crossing across watercourse

System performance - Not Used

Products - Not Used

Fabrication - Not Used

Execution

610 Loading

1. **Site activities:** Restrict, to ensure that design loads are not exceeded, or submit proposals for temporary supports.

655 Erection of prefabricated timber structures on prepared bases

1. **Survey:** Five days (minimum) before proposed erection date. Check foundations, holding down bolts, etc.
2. **Inaccuracies or defects in prepared bases or supplied structures:** Report immediately. Obtain instructions before proceeding.

660 Preservative-treated timber

1. **Surfaces exposed by minor cutting and drilling:** Treated by immersion or with two flood coats of a solution recommended for the purpose by main treatment solution manufacturer.
2. **Heavily worked sections:** Re-treat.

680 Site-painting and staining

1. **Timing:** Prepare surfaces and apply finishes as soon as possible after installing components.

Completion

950 Documentation

1. **Contents**
 - 1.1. General product information.
 - 1.2. Installation information.
 - 1.3. Inspection and maintenance reports.
2. **Number of copies:** Three
3. **Submission:** Two weeks prior to date when principal contractor expects work to be practically complete

Ω End of Section



Specification created using NBS Chorus