

MeiLoco Ltd

Camborne Town Council

# Park Gerry

External works

28-05-2024

Park regeneration in Camborne, Cornwall.

## Contents

B51 General structural requirements - landscape .....	1
C20 Demolition .....	3
D20 Excavating and filling .....	5
N91 External signage and interpretation.....	11
Q05 Biodiversity and environmental conservation .....	14
Q10 Kerbs/ edgings/ channels/ paving accessories .....	15
Q20 Granular sub-bases to roads/ pavings .....	18
Q22 Asphalt roads/ pavings .....	20
Q23 Gravel/ hoggin/ woodchip/ resin bound roads/ pavings/ overlays .....	23
Q25 Slab/ brick/ sett/ cobble pavings.....	26
Q26 Special surfacings/ pavings for sport/ general amenity .....	30
Q28 Topsoil and soil ameliorants.....	33
Q30 Seeding/ turfing .....	40
Q31 External planting .....	45
Weld Mesh Tree Shelter Guard .....	50
Q35 Landscape maintenance .....	54
Q40 Fencing .....	61
Q50 Site/ street furniture/ equipment .....	63
Q52 Play and sports equipment.....	68
Z21 Mortars.....	73

## B51

# General structural requirements - landscape

### Tendering

#### 15 Information to be provided at time of tender

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1. Description: General layout  
General details  
Planting design  
Hard and soft landscape design  
Furniture and features specification  
Existing surveys and site reports
2. Submit the following
  - 2.1. **Technical information:** Certification demonstrating compliance with specification of proposed incorporated products and finishes
  - 2.2. **Proposals:** Describe and give reasons for any proposals for:
    - 2.2.1. Additional support or other changes to the supporting structure.
    - 2.2.2. Changes to the specification.
    - 2.2.3. Changes to the adjacent building fabric.

### General

#### 120 Structural work

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1. **Designated codes of practice:** BS EN 1997-1 for foundations BS EN 1993-5 for steel structures BS EN 1992-1-1 for concrete structures BS EN 1995-1-2 for timber structures BS EN 1996-1-1 for reinforced and unreinforced masonry structures ETAG 001 for fixings to concrete
2. **Design working life:** 50 years
3. **Completed structure generally:** To comply with the requirements of the designated codes of practice and the standards referenced therein. Deflections and other structural movements at serviceability limit state to be compatible with requirements of the structure, movement joints and weathertightness.
4. **Special requirements:** None

#### 150 Ground investigation report

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1. **Requirement:** Consider adequacy of data provided and submit proposals if additional investigation will be necessary to justify design
2. **Datum for borehole logs:** Ordnance (Newlyn) datum
3. **Obstructions and voids:** As described in the ground investigation report

### Performance - Not Used

### Execution

#### 700 Execution generally

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1. **Standard:** Report conflict between specification and the designated codes of practice and the standards referenced therein before ordering affected materials or executing affected work.
2. **Inspection levels:** To BS EN 1990, table B5, level IL2
  - 2.1. **Special requirements:** None
3. **Quality control:** Submit proposals

4. **Tolerances:** Notwithstanding tolerances specified elsewhere, do not exceed requirements for compliance with the designated code.

## **750 Monitoring of ground conditions during construction**

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1. **Purpose:** To identify differences between actual ground conditions and those assumed in the design.
2. **Requirements:** As detailed in the ground conditions report.
3. **Inspect and record:** Sequence, nature and soil types revealed in excavations and formations.
4. **Immediately notify:** Variations from the assumed ground conditions or shortfall in test requirements.
5. **Special requirements:** Copy notification to the engineer responsible for the Contractor's design

### **Completion - Not Used**

Ω End of Section

## C20 Demolition

### General requirements

#### 120 Extent of deconstruction/ demolition

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1. General: Subject to retention requirements specified elsewhere, deconstruct/ demolish structures down to Foundation level: Break up and dig out foundations.

#### 130 Groundworks

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1. Old foundations, slabs and the like: Break out in locations and to the extents stated.  
REFER TO DRAWING 1002 & 1009  
AND TOPOGRAPHIC SITE SURVEY
2. Contaminated material: Remove, and carry out remediation required by the 'Enforcing Authority'  
REFER TO SITE INVESTIGATION REPORTS  
REFER TO PHASE 3 REMEDIATION REPORT
3. Removal of deleterious material: Remove rubbish, concrete, metal, glass, decayed vegetation and contaminated topsoil

#### 150 Features to be retained

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1. General: Keep in place and protect the following: Boundary walls Gates and gate pillars Trees noted on drawings; protect in accordance with BS 5837.

### Services affected by deconstruction and demolition

#### 220 Location and marking of services

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1. Services affected by deconstruction/ demolition work: Locate and mark positions
2. Mains services marking: Arrange with the appropriate authorities for services to be located and marked
  - 2.1. Marking standard: In accordance with Street Works UK publication 'Guidance on the Positioning and Colour Coding of Underground Utilities' Apparatus'.

#### 232 Services disconnection arranged by employer and contractor

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1. Responsibility: The employer will arrange with the appropriate authorities and responsible private organizations for disconnection of services, and removal of fittings and equipment owned by those authorities prior to deconstruction or demolition, as follows: .....
2. Timing: Do not start deconstruction or demolition until disconnections are completed.

### Deconstruction and demolition work

#### 310 Workmanship

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1. Standard: Demolish structures in accordance with BS 6187.
2. Operatives
  - 2.1. Appropriately skilled and experienced for the type of work.
  - 2.2. Holding, or in training to obtain, relevant Construction Skills certification of competence.
3. Site staff responsible for supervision and control of work: Experienced in the assessment of risks involved and methods of deconstruction and demolition to be used.

### 330 Dust control

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1. **General:** Minimize airborne dust by periodically spraying deconstruction and demolition works with an appropriate wetting agent. Keep public roadways and footpaths clear of mud and debris
2. **Lead dust:** Submit method statement for control, containment and clean-up regimes.

### 340 Health hazards

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1. **Precautions:** Protect site operatives and general public from hazards associated with vibration, dangerous fumes and dust arising during the course of the works.

### 380 Dangerous openings

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1. **General:** Provide guarding at all times, including outside of working hours. Illuminate during hours of darkness.
2. **Access:** Prevent access by unauthorized persons.

### 410 Unforeseen hazards

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1. **Discovery:** Give notice immediately when hazards such as unrecorded voids, tanks, chemicals, are discovered during deconstruction or demolition.
2. **Removal:** Submit details of proposed methods for filling, removal, etc.

## Materials arising

### 520 Recycled materials

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1. **Materials arising from deconstruction and demolition work:** Can be recycled or reused elsewhere in the project, subject to compliance with the appropriate specification and in accordance with any site waste management plan.
2. **Evidence of compliance:** Submit full details and supporting documentation.
  - 2.1. **Verification:** Allow adequate time in programme for verification of compliance.

Ω End of Section

## D20

# Excavating and filling

### Generally/the site

#### 110 Site investigation

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1. Report: See existing site reports

#### 145 Variations in ground water level

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

#### 150 Existing services, features and structures

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1. Services: Refer to survey for details.
2. Site features to be retained: REFER TO DRAWING 1002

### Clearance/excavating

#### 164 Tree roots

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1. Protected area: Do not cut roots within precautionary protection area.
  - 1.1. Size of area: As drawing 1005 - extending to edge of canopy line
2. Excavation in protected area
  - 2.1. Method: By hand
  - 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

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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

#### 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 150 mm or as determined when undertaking preliminary investigation of soil prior to soil strip.
  - 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 recently 'stripped' topsoil

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

## 221 Treating topsoil already stockpiled on site

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

## 225 Handling topsoil

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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.

## 250 Permissible deviations from formation levels

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

## 270 Foundations generally

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1. **Give notice if**
  - 1.1. A natural bearing formation of undisturbed subsoil is not obtained at the depth shown on the drawings.
  - 1.2. The formation contains soft or hard spots or highly variable material.

## 310 Unstable ground

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1. **Generally:** Ensure that the excavation remains stable at all times.
2. **Give notice:** Without delay if any newly excavated faces are too unstable to allow earthwork support to be inserted.
3. **Take action:** If instability is likely to affect adjacent structures or roadways, take appropriate emergency action.

## 330 Unrecorded features

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1. **Give notice:** If unrecorded foundations, beds, voids, basements, filling, tanks, pipes, cables, drains, manholes, watercourses, ditches, etc. not shown on the drawings are encountered.



## Disposal of materials

### 410 Excavated topsoil storage

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1. **Storage:** Stockpile in temporary storage heaps as per drawing 1010 .

### 415 Excavated topsoil removal: Contaminated soil

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1. **General:** Remove from site, taking appropriate precautions as per Health and Safety requirements.

REFER TO REMEDIATION REPORT 21876/PH3

### 420 Topsoil storage heaps

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1. **Location:** As Drawing 1010
2. **Standard:** To BS 3882.
3. **Height (maximum):** 1.5m
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

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

### 441 Surplus subsoil

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1. **Excavated material:** Stockpile in temporary storage heaps.
2. **Retained material:** Re-use on site where possible
  - 2.1. **Locations:** As Drawing 1002 & 1005
  - 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.

REFER TO REMEDIATION REPORT 21876/PH3

### 450 Water

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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

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1. **Give notice:** If it is considered that the excavations are below the water table.
2. **Springs/ Running water:** Give notice immediately if encountered.

### 457 Pumping

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1. **General:** Do not disturb excavated faces or stability of adjacent ground or structures.

2. **Pumped water:** Discharge without flooding the site or adjoining property.
3. **Sumps:** Construct clear of excavations. Fill on completion.
  - 3.1. **Locations:** Give notice if pumping required

## 460 Permanent drainage system

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1. **Disposal of water from the excavations through system:** As per drainage engineer scheme

## Filling

## 500 Proposed fill materials

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1. **Details:** Submit full details of proposed fill materials to demonstrate compliance with specification, including:
  - 1.1. Type and source of imported fill.
  - 1.2. Proposals for processing and reuse of material excavated on site.
  - 1.3. Test reports as required elsewhere.
2. **Timing:** At least 21 days before starting filling

## 510 Hazardous, aggressive or unstable materials

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1. **General:** Do not use fill materials which would, either in themselves or in combination with other materials or ground water, give rise to a health hazard, damage to building structures or instability in the filling, including material that is:
  - 1.1. Frozen or containing ice.
  - 1.2. Organic.
  - 1.3. Contaminated or noxious.
  - 1.4. Susceptible to spontaneous combustion.
  - 1.5. Likely to erode or decay and cause voids.
  - 1.6. With excessive moisture content, slurry, mud or from marshes or bogs.
  - 1.7. Clay of liquid limit exceeding 80 and/or plasticity index exceeding 55.
  - 1.8. Unacceptable, class U2 as defined in the 'Specification for highway works', clause 601.

## 530 Placing fill

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1. **Surfaces of excavations and areas to be filled:** Free from loose soil, topsoil, organic material, rubbish and standing water.
2. **Freezing conditions:** Do not place fill on frozen surfaces. Remove material affected by frost. Replace and recompact if not damaged after thawing.
3. **Adjacent structures, membranes and buried services**
  - 3.1. Do not overload, destabilise or damage.
  - 3.2. Submit proposals for temporary support necessary to ensure stability during filling.
  - 3.3. Allow 14 days (minimum) before backfilling against in situ concrete structures.
4. **Layers:** Place so that only one type of material occurs in each layer.
5. **Earthmoving equipment:** Vary route to avoid rutting.

## 535 Compaction generally

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1. **General:** Compact fill not specified to be left loose as soon as possible after placing.
2. **After compaction:** Surface of each layer must be well closed, showing no movement under compaction plant, and without cracks, holes, ridges, loose material and the like.
3. **Defective areas:** Remove and recompact to full thickness of layer using new material.

## 540 Benching in fill

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1. **Adjacent areas:** If, during filling the difference in level between adjacent areas of filling exceeds 600 mm, cut into edge of higher filling to form benches 600 mm minimum width and height equivalent to depth of a layer of compacted filling.
2. **New filling:** Spread and compact to ensure maximum continuity with previous filling.

## 571 Geocells To paths under existing tree canopy

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1. **Manufacturer:** Geosynthetics Limited

Fleming Road,  
Harrowbrook Ind Est,  
Hinckley,  
Leicestershire,  
LE10 3DU

Tel: 01455 617139

[feedback@geosyn.co.uk](mailto:feedback@geosyn.co.uk)

1.1. **Product reference:** Cellweb TRP

2. **Materials:** As manufactured
3. **Recycled content:** As manufactured
4. **Size of cells (length x width x thickness):** 100mm deep
5. **Preparation of subgrade:** Before laying geocells, remove humps and sharp projections, and fill hollows  
Fill with 4-20mm clean angular stone
6. **Fixing/ Connecting:** Stainless steel 'J' pins

## 610 Compacted filling for landscape areas

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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

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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.

## 617 Type 1 unbound mixture

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1. **Fill:** To 'Specification for highway works', clauses 801 and 803:
  - 1.1. Crushed rock (other than argillaceous rock).
  - 1.2. Coarse crushed concrete aggregate.
  - 1.3. Recycled aggregates.
  - 1.4. Crushed non-expansive slag to clause 801.2.
  - 1.5. Well-burned non-plastic colliery shale.
2. **Amendments to requirements in the 'Specification for highway works':**
3. **Filling:** To 'Specification for highway works', clause 802.

## 700 Backfilling around foundations

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1. **Under oversite concrete and pavings:** Hardcore as clause 710.

2. Under grassed or soil areas: Material excavated from the trench, laid and compacted in 300 mm maximum layers.

### **Bioremediation - Not Used**

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

Ω End of Section

# N91

## External signage and interpretation

### Signage outline - Not Used

### System performance

#### 210 External signage generally

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1. **Signage systems generally:** Complete to BS 559, including components, inserts, accessories and fixings necessary to complete the system.
2. **External signage:** To BS 559, clause 6.1.
3. **Content:** Signs including facing information, components, inserts, accessories and fixings necessary to complete the system.
4. **Wind loads:** To BS EN 1991-1-4.

#### 215 Design life

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1. **Description:** OF WAYFINDING & INTERPRETATION SIGNAGE
2. **Duration:** 25 years
  - 2.1. Subject to reasonable wear and tear.
3. **Environment:** Parkland, Urban
4. **Condition of use:** Subject to regular maintenance.

### Products - Not Used

### Materials - Not Used

### Fabrication

#### 520 Monolith/ entrance/ welcome sign

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1. **Description:** TO KEY ENTRANCE NODES
2. **Manufacturer:** Parc Signs  
  
Parc Signs,  
Units 5–8  
St Austell Enterprise Park,  
St Austell,  
Cornwall  
PL25 4EJ  
  
01726 74747
3. **Material:** As drawing 3004
4. **Layout and dimensions:** As drawing 3004
5. **Fixing accessories:** Tamper-resistant fixings
6. **Additional requirements:** Graphic panel - see drawing 3004

#### 550 Finger post

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1. **Description:** FOR WAYFINDING AT KEY NODES
2. **Manufacturer:** Parc Signs

Parc Signs,

Units 5–8  
St Austell Enterprise Park,  
St Austell,  
Cornwall  
PL25 4EJ

01726 74747

- 2.1. Product reference: Submit proposals
- 3. Material: As drawing 3004
  - 3.1. Finish: As drawing 3004
- 4. Layout and dimensions: As drawing 3004
- 5. Fixing accessories: Tamper-resistant fixings

### **555 Waymarker post**

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- 1. Description: TO SOUTH MEADOW FOR TRAIL MARKERS
- 2. Manufacturer: BESPOKE
- 3. Material: As per drawing 3004
- 4. Layout and dimensions: As drawing 3004
  - 4.1. Content: As drawing 3004

### **Execution/ erection/ installation**

#### **625 Fixing signposts into concrete**

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- 1. Description: TO POSTS SET INTO CONCRETE
- 2. Concrete: To BS 8500-2.
- 3. Mix: Designated concrete not less than GEN 1, or standard prescribed concrete not less than ST2.
  - 3.1. Admixtures: Submit proposals.
    - 3.1.1. Prohibited: Calcium chloride, and admixtures containing calcium chloride.
- 4. Depth of foundations, bedding, haunching: Appropriate to provide adequate support, and to receive overlying soft landscape or paving finishes.
- 5. Foundation holes: Neat vertical sides.
- 6. Components: Accurately positioned and securely supported.
- 7. Concrete fill: Compact as filling proceeds.
- 8. Concrete foundations exposed to view: Compact until air bubbles cease to appear on the upper surface, then weather to shed water and trowel smooth.
- 9. Temporary support: Maintain undisturbed for minimum 48 hours.

#### **635 Posts set in earth**

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- 1. Description: TRAIL MARKERS
- 2. Holes: As small as practicable.
- 3. Components: Accurately positioned and securely supported.
- 4. Buried depth (minimum): As per manufacturer's instructions
- 5. Earth fill: Well-rammed as filling proceeds.

#### **665 Making good galvanized surfaces**

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- 1. Minor damage in areas of up to 40 mm<sup>2</sup> (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.

## **670 Making good treated wood**

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1. **Surfaces exposed by minor cutting and/ or drilling:** Treat 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.
3. **Cutting and machining:** Carry out as much as possible before treatment.
4. **Extensively processed wood:** Retreat wood sawn lengthways, planed, ploughed, etc.

## **Completion**

## **905 Inspection of signs**

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1. **Standard for timber structures:** In accordance with BS EN 1995-1-1.
2. **Timing:** Give reasonable notice before covering up
3. **Period of notice (minimum):** Three working days.
4. **Maintenance inspection:** Check and tighten fixings six to eight weeks after completion of structure
5. **Access:** Provide access for inspection and maintenance of luminaires and other technologies.

## **915 Cleaning of signs/ graffiti removal**

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1. **Method:** As approved by manufacturer
2. **Subsequent treatment:** As suggested by manufacturer

## **920 Documentation**

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1. **Submit**
  - 1.1. Copies of structural design calculations/ test reports.
  - 1.2. General product information.
  - 1.3. Installation information.
  - 1.4. Inspection and maintenance reports.
  - 1.5. Manufacturer's maintenance instructions.
  - 1.6. Guarantees, warranties, test certificates, record schedules and logbooks.
2. **Number of copies:** TBC
3. **Submission:** Two weeks prior to date when principal contractor expects work to be complete

Ω End of Section

## Q05

# Biodiversity and environmental conservation

### System outline

#### 130 Habitat protection

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1. Description: See Preliminary Ecological Assessment dated Nov-23 reference WOR-3393  
PEA recommended 5x bird and 5x bat boxes in retained trees
2. Location: As schedule TBC

### Performance - Not Used

### Products - Not Used

### Execution - Not Used

### Record keeping/ monitoring/ surveys - Not Used

### Documentation

#### 940 Ecological survey report

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1. Description: See Preliminary Ecological Assessment dated Nov-23 reference WOR-3393
2. Scope
  - 2.1. Ecological survey results: Field survey results
  - 2.2. Recommendations: See report

#### 950 Invasive species survey report

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1. Description: See Preliminary Ecological Assessment dated Nov-23 reference WOR-3393
2. Scope
  - 2.1. Survey results: Field survey results  
Site photographs
  - 2.2. Interpretation (conclusions): Assess degree of risk and action to be taken
  - 2.3. Recommendations: Mitigation strategies

Ω End of Section



## Q10

### Kerbs/ edgings/ channels/ paving accessories

#### Types of kerbs/edgings and channels

#### 110 Concrete kerbs TO PAVILION LANDSCAPE. LAID FLUSH OR AS SHOWN.

---

1. Manufacturer: [AG](#)
  - 1.1. Contact details
    - 1.1.1. Address: 127 Crievehill Road  
Fivemiletown  
Tyrone  
United Kingdom  
BT75 0SY
    - 1.1.2. Telephone: [+44 \(0\) 28 8778 8112](tel:+44(0)2887788112)
    - 1.1.3. Web: [www.ag.uk.com](http://www.ag.uk.com)
    - 1.1.4. Email: [specifications@ag.uk.com](mailto:specifications@ag.uk.com)
  - 1.2. Product reference: [TerraKerb](#)
2. Standard: Manufactured to BS EN 1340; installed to BS7533.
3. Physical properties
  - 3.1. Colour: Onyx (Silver).
  - 3.2. Finish: Textured top and front face.
  - 3.3. Dimensions: 255 x 125 x 900 mm, square edge.

#### 112 Precast concrete KERBS TO REAR OF PARKING BAYS AND ACCESS ROAD.

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1. Description: TO CAR PARKS  
REFER TO DRAWING 1004
2. Standard: To BS EN 1340.
3. Recycled content: Submit proposals
4. Designations: HB2 Kerb, half battered
5. Size (width x height x length): 125 x 255 x 915 mm
6. Special shapes: Use appropriate unit for radii  
External radius kerbs as shown on drawings Dropper kerbs DL1 and DR1 to footway crossings
7. Finish: As cast
8. Colour: Grey
9. Bending strength: Class 2
10. Weathering resistance: Class 3
11. Abrasion resistance: Class 3
12. Slip/ skid resistance: PTV to BS EN 1340 40-74
13. Bedding: Cement mortar
14. Joints generally: Dry, 2-3 mm gap
15. Sealant movement joints: Not required
16. Accessories: None

#### 112 Precast concrete edging (C) - 50MM FLUSH EDGING AS SHOWN

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1. Description: USED AS CONCRETE EDGING 50MM WIDTH.  
REFER TO DRAWING 1004

2. Standard: To BS EN 1340.
3. Recycled content: Submit proposals
4. Designations: EF Edging, flat top
5. Size (width x height x length): 50 x 150 x 915 mm
6. Special shapes: Use appropriate unit for radii  
External radius kerbs as shown on drawings Dropper kerbs DL1 and DR1 to footway crossings
7. Finish: As cast
8. Colour: Grey
9. Bending strength: Class 2
10. Weathering resistance: Class 3
11. Abrasion resistance: Class 3
12. Slip/ skid resistance: PTV to BS EN 1340 40-74
13. Bedding: Cement mortar
14. Joints generally: Dry, 2-3 mm gap
15. Sealant movement joints: Not required
16. Accessories: None

## **200 Special Aluminium edging**

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1. Description: TO ASPHALT PATHWAYS  
REFER TO DRAWING 1004
2. Manufacturer: Kinley Systems  
  
Kinley Innovation Centre,  
Paddock,  
Marley Lane Business Park,  
Battle,  
East Sussex,  
TN33 0RE  
  
[+44 \(0\)1580 830688](tel:+441580830688)  
[sales@kinley.co.uk](mailto:sales@kinley.co.uk)
  - 2.1. Product reference: AluExcel 75mm  
Flexible and rigid
3. Size: 75mm
4. Type/ Material: Aluminium
  - 4.1. Finish: As cast
  - 4.2. Colour: None
5. Accessories: Fixing pegs
6. Bedding: As drawing 3001
7. Joints: As per manufacturer's specification

## **200 Special IN-GROUND RECLAIMED SLEEPERS AS EDGING AND FEATURE**

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1. Description: TO ASPHALT PATHWAYS  
REFER TO DRAWING 1002 & 3001
2. Manufacturer: <https://www.griggssagri.co.uk/timber-reclaimed-sleeper-125x250mm-2-4m.html>
  - 2.1. Product reference: RECLAIMED RAIL SLEEPERS, CLEANED LAID FLUSH.
3. Size: 125 X 250 X 2.4M
4. Accessories: FIXED USING M10 COACH BOLTS INTO CONCRETE BASE

5. Bedding: As drawing 3001
6. Joints: As drawing 3001

## Roads/paving accessories/ marking/ demarcation - Not Used

### Laying

#### 510 Laying kerbs, edgings and channels

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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.

#### 530 Concrete for foundations, races and haunching

---

1. Standard: To BS 8500-2.
2. Designated mix: Not less than GEN0 or Standard mix ST1.
3. Workability: Very low.

#### 600 Radius kerbs/ channels

---

1. Usage: Radii of 15 m or less.

#### 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

## Q20

# Granular sub-bases to roads/ pavings

To be read with preliminaries/ general conditions.

### 110 Thicknesses of sub-base/ subgrade improvement layers

---

1. Thicknesses: See sections: Q23 Gravel/hoggin/woodchip roads/pavings Q25 Slab/brick/sett/cobble pavings.

### 120 Checking of subgrades

---

1. Subgrade variation: If material appears to vary from anticipated conditions, or if there are extensive soft spots, report condition and submit proposals.
2. Submit: Results and obtain instructions before proceeding.

### 140 Excavation of subgrades

---

1. Final excavation to formation or subformation level: Carry out immediately before compaction of subgrade.
2. Soft spots and voids: Give notice.
3. Old drainage and service trenches: Give notice
4. Wet conditions: Do not excavate or compact when the subgrade may be damaged or destabilized.

### 145 Preparation and compaction of subgrades

---

1. Timing: Immediately before placing sub-base.
2. Soft or damaged areas: Excavate and replace with sub-base material, compacted in layers 300 mm (maximum) thick
3. Compaction: Thoroughly, by roller or other suitable means, adequate to resist subsidence or deformation of the subgrade during construction and of the completed roads/ pavings when in use. Take particular care to compact fully at intrusions, perimeters and where local excavation and backfilling has taken place.

### 150 Subgrades for vehicular areas

---

1. Preparation and treatment: To Highways Agency 'Specification for highway works', clauses 616 and 617.

### 180 Notice

---

1. Give notice: After preparation and compaction of subgrades
  - 1.1. Period of notice: 5 working days

### 240 Laying granular sub-bases for vehicular areas

---

1. General: Spread and levelled in layers. As soon as possible thereafter compact each layer.
2. Standard: To Highways Agency 'Specification for highway works' clause 802.
3. At drainage fittings, inspection covers, perimeters and where local excavation and backfilling has taken place: Take particular care to compact fully.

### 250 Laying granular sub-bases

---

1. Description: FOR PEDESTRAIN AREAS
2. General: Spread and levelled.
3. Compaction

- 3.1. **Timing:** As soon as possible after laying.
- 3.2. **Method:** By roller or other suitable means, adequate to resist subsidence or deformation of the sub-base during construction and of the completed paving when in use. Take particular care to compact fully at intrusions, perimeters and where local excavation and backfilling has taken place.

### 310 Accuracy

---

1. Permissible deviation from required levels, falls and cambers (maximum)
  - 1.1. Subgrades
    - 1.1.1. Roads and parking areas: +20 -30 mm.
    - 1.1.2. Footways and recreation areas:  $\pm 20$  mm.
  - 1.2. Sub-bases
    - 1.2.1. Roads and parking areas:  $\pm 20$  mm
    - 1.2.2. Footways and recreation areas:  $\pm 12$  mm

### 330 Cold weather working

---

1. **Frozen materials:** Do not use.
2. **Freezing conditions:** Do not place fill on frozen surfaces. Remove material affected by frost. Replace and recompact if not damaged after thawing.

### 340 Protection

---

1. **Sub-bases:** As soon as practicable, cover with subsequent layers, specified elsewhere.
2. **Subgrades and sub-bases:** Prevent degradation by construction traffic, construction operations and inclement weather.

Ω End of Section

## Q22

### Asphalt roads/ pavings

#### Types of paving

##### 115 Asphalt concrete paving

---

1. Description: TO PEDESTRIAN AND CYCLE PATHS
2. Standard: To BS EN 13108-1
3. Subgrade improvement layer: Type 1 unbound mixture, as section Q20
  - 3.1. Compacted thickness: 200 mm
4. Geotextile: Not required
5. Granular sub-base: Type 1 unbound mixture, as section Q20
  - 5.1. Compacted thickness: 150 mm
6. Binder course: AC 20 dense bin
  - 6.1. Paving grade: 40/60
  - 6.2. Compacted thickness: 60 mm
7. Surface course: AC 6 dense surf
  - 7.1. Paving grade: Not applicable
  - 7.2. Slip/ Skid resistance: No requirement
  - 7.3. Compacted thickness: 20-25 mm nominal, 15 mm minimum at any point
8. Reclaimed content
  - 8.1. Standard: To BS EN 13108-8.
  - 8.2. Value (maximum): Surface course 10%, other courses 20%
9. Surface treatment: Uncoated chippings
10. Other requirements: N/A

##### 115 Asphalt concrete paving . Making good to all interfaces with existing tarmac surface

---

1. Description: TO PEDESTRIAN PATHS
2. Standard: To BS EN 13108-1
3. Subgrade improvement layer: Type 1 unbound mixture, as section Q20
  - 3.1. Compacted thickness: 200 mm
4. Geotextile: Not required
5. Granular sub-base: Type 1 unbound mixture, as section Q20
  - 5.1. Compacted thickness: 150 mm
6. Binder course: AC 20 dense bin
  - 6.1. Paving grade: 40/60
  - 6.2. Compacted thickness: 60 mm
7. Surface course: AC 6 dense surf
  - 7.1. Paving grade: Not applicable
  - 7.2. Slip/ Skid resistance: No requirement
  - 7.3. Compacted thickness: 20-25 mm nominal, 15 mm minimum at any point
8. Reclaimed content
  - 8.1. Standard: To BS EN 13108-8.
  - 8.2. Value (maximum): Surface course 10%, other courses 20%

9. Surface treatment: Uncoated chippings
10. Other requirements: N/A

## Preparatory work/ requirements

### 210 Aluminium edging

---

1. Description: TO ASPHALT PATHWAYS Ref 'ME' (Metal Edging)  
Kinley Systems 'Aluexcel' 75mm.

### 220 Bituminous materials generally

---

1. Suppliers' names: Submit.
  - 1.1. Timing (minimum): Two weeks before starting work.
2. Test certificates: At the time of delivery for each manufacturing batch submit certificate:
  - 2.1. Confirming compliance with this specification and the relevant standard.
  - 2.2. Stating full details of composition of mix.

### 240 Acceptance of surfaces

---

1. Surface: Sound, clean and suitably close textured.
2. Level tolerances: To BS 594987.
3. Kerbs and edgings: Complete, adequately bedded and haunched and to the required levels.

### 250 Abutments

---

1. Vertical edges of manholes, gullies, kerbs and other abutments: Clean and paint with a thin uniform coating of .....
2. Finishing: Tamp surface around projections.
  - 2.1. Level: Flush or not more than 3 mm above projections.

## Laying

### 310 Laying generally

---

1. Preparation: Remove all loose material, rubbish and standing water.
2. Adjacent work: Form neat junctions. Do not damage.
3. Channels, kerbs, inspection covers etc: Keep clean.
4. New paving
  - 4.1. Keep traffic free until it has cooled to prevailing atmospheric temperature.
  - 4.2. Do not allow rollers to stand at any time.
  - 4.3. Prevent damage.
  - 4.4. Lines and levels: With regular falls to prevent ponding.
  - 4.5. Overall texture: Smooth, even and free from dragging, tearing or segregation.
  - 4.6. State on completion: Clean.

### 320 Adverse weather

---

1. Frozen materials: Do not use.
2. Suspend laying
  - 2.1. During freezing conditions
  - 2.2. If the air temperature reaches 0°C, or in calm dry conditions -3°C, on a falling thermometer.

- 2.3. **Hot rolled asphalt:** During periods of continuous or heavy rain or if there is standing water on the base.

### 330 Levels

---

1. **Permissible deviation from the required levels, falls and cambers (maximum):** In accordance with BS 594987, clause 5.2.

### 340 Flatness/ Surface regularity

---

1. **Deviation of surface:** Where appropriate in relation to the geometry of the surface, the variation in gap under a 3 m straightedge placed anywhere on the surface to be not more than:
  - 1.1. **Base:** Machine laid, 25 mm
  - 1.2. **Binder course:** Machine laid, 13 mm
  - 1.3. **Surface course:** Machine laid, 7 mm
  - 1.4. Where a straightedge cannot be used the surface must be of a comparable standard of accuracy when judged by eye.

### 350 Contractor's use of pavements

---

1. **Before use**
  - 1.1. **Timing:** allow newly laid sections to cool before trafficking.
  - 1.2. **Open-grained surface:** Fill with 0/4 mm size coated grit. Remove surplus.
  - 1.3. **Finish:** Uncoated chipping and binder surface treatment.
2. **Preparation for final surfacing**
  - 2.1. **Timing:** Defer laying until as late as practicable.
  - 2.2. **Immediately before laying final surfacing:** Clean and make good the base/ binder course. Allow to dry.
  - 2.3. **Adhesion:** Contractor's choice
    - 2.3.1. **Application rate:** As manufacturer's recommendation
    - 2.3.2. **Accuracy:** Uniform, without puddles.
  - 2.4. **Finishing:** Allow emulsion to break completely before applying surface.

### Completion - Not Used

Ω End of Section



## Q23

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

## Types of surfacing

### 110 Hard binding gravel

---

1. Description: TO CAR PARKS
2. Subgrade improvement layer: Contractor's choice
  - 2.1. Compacted thickness: Submit proposals
3. Geotextile: Sheet
  - 3.1. Manufacturer: Contractor's choice
    - 3.1.1. Product reference: Contractor's choice
4. Granular sub-base: Contractor's choice  
Bodpave cellular reinforcement
  - 4.1. Compacted thickness: Submit proposals
5. Blinding to sub-base: As per contractor
6. Surface course: Angular gravel, free from clay, with sufficient grit to enable compaction.
  - 6.1. Size: Graded 6-10 mm
  - 6.2. Compacted thickness: 50 mm
7. Completion: Compact to produce a firm, regular surface, stable in use.

### 130 Fine hoggin

---

1. Description: TO FOOTPATHS, REFER TO DRAWING 1004
2. Subgrade improvement layer: Contractor's choice
  - 2.1. Compacted thickness: 50mm
3. Geotextile: Sheet
  - 3.1. Manufacturer: Contractor's choice
4. Granular sub-base: Contractor's choice
  - 4.1. Compacted thickness: Refer to drawing 3001
5. Surface course: Naturally occurring fine hoggin consisting of sand and gravel, with minimum clay content required to bind the material together, and with no large lumps of clay.
  - 5.1. Size: Minimum of 85% by weight passing a 10 mm BS sieve.
  - 5.2. Maximum particle size: 10 mm
  - 5.3. Compacted thickness: As drawing 3001
6. Completion: Compact to produce a firm, regular surface, stable in use.

### 160 Large Boulders Feature Items

---

1. Geotextile: Not required
  - 1.1. Manufacturer: Submit proposals Large Cornish Granite Boulders
    - 1.1.1. Product reference: [Pebbles, Cobbles and Boulders \(Large Glacial Boulders\)](#) Submit proposals
  - 1.2. Material: Boulders.
  - 1.3. Aggregate size: Must not be less than 450mm in any dimension
  - 1.4. Colour: N/A

- 1.5. **NOTES:** Ensure boulders are without excessively sharp corners, splits or entrapments. When installing boulders in close proximity ensure no entrapments between units are created. Boulders are to be of sufficient size so as to be immovable,

## 230 Woodchip surfaces

---

1. **Description:** TO NATURAL PLAY EQUIPMENT  
Refer to drawing 1005
2. **Subgrade improvement layer:** Contractor's choice
  - 2.1. **Compacted thickness:** Submit proposals
3. **Granular sub-base:** Contractor's choice
  - 3.1. **Compacted thickness:** Submit proposals
4. **Geotextile:** Sheet
  - 4.1. **Manufacturer:** Contractor's choice
5. **Surface course**
  - 5.1. **Manufacturer:** Contractor's choice
  - 5.2. **Type:** Softwood free from pests, disease, weeds, and any additives.
  - 5.3. **Particle size:** Evenly graded, 5-30 mm
  - 5.4. **Dust and fine content (maximum):** 7%
  - 5.5. **Wood content (minimum):** 95%
  - 5.6. **Thickness after at least 10% settlement and 30 days:** 300 mm

## Laying

## 310 Timber edging To hoggin pathways and woodchip natural play surfaces

---

1. **Softwood board**
  - 1.1. **Size:** 150 x 38 mm.
  - 1.2. **Fixing:** Galvanized nails into softwood pegs.
2. **Softwood pegs**
  - 2.1. **Size:** Contractors choice
  - 2.2. **Fixing:** Drive into ground.
  - 2.3. **Centres:** 900 mm, Maximum 500 mm on radii of less than 6 m
3. **Preservative treatment:** Alkaline Copper Quaternary (ACQ)

## 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.

### **360 Drainage falls**

---

1. Sealed surfaces
  - 1.1. Falls and cross falls (minimum): 1:40.
  - 1.2. Camber (minimum): 1:50.
2. Unsealed surfaces (minimum): 1:30.

### **380 Laying granular surfaces in pedestrian areas and cycle tracks**

---

1. Permissible deviation from required levels, falls and cambers (maximum):  $\pm 12$  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

## Q25

### Slab/ brick/ sett/ cobble pavings

#### General

#### 120 Concrete paving blocks - To Pavillion Surround Type A

---

1. Manufacturer: [Marshalls plc](#)
2. Contact details
  - 2.1. Address: Landscape House  
Lowfields Business Park  
Elland  
West Yorkshire  
HX5 9HT
  - 2.2. Telephone: [+44 \(0\)330 0574472](tel:+44(0)3300574472)
  - 2.3. Web: [www.marshalls.co.uk](http://www.marshalls.co.uk)
  - 2.4. Email: [info@marshalls.co.uk](mailto:info@marshalls.co.uk)
3. Product reference: [Lunar \(400 x 600 x 80 mm\)](#)
4. Standard: To BS EN 1338.
5. Physical properties
  - 5.1. Colour: Lunar Silver Dust.
  - 5.2. Finish: Smooth.
  - 5.3. Profile
    - 5.3.1. Paver type: Regular plan form.
    - 5.3.2. Arrises: Chamfered.
  - 5.4. Dimensions and associated tolerances
    - 5.4.1. Nominal sizes: 400 x 600 x 80 mm.
  - 5.5. Arrises: Chamfered.
  - 5.6. Weathering resistance:
  - 5.7. Abrasion resistance: <23 mm.
  - 5.8. Slip resistance: USRV/ PSRV to BS EN 1338 of >45.
6. Dimensions and tolerances:  $\pm 2$  mm (length);  $\pm 2$  mm (width);  $\pm 3$  mm (thickness).
7. Unit weight: 44 kg.
8. Coverage: 5 per m<sup>2</sup>.
9. Material density: 2300 kg/m<sup>3</sup>.
10. Durability: <1.0 kg/m<sup>2</sup>.
11. Surfacing layer: 4 mm (minimum)
12. Reaction to fire: Class A1.
13. TensileStrength: Not applicable.
14. BendingStrength: Class 3, 5.0 MPa.

#### 185 Gravel filled plastics paving system

---

1. Description: [https://www.groundtrax.com/downloads/site/2018/2018\\_Sub-Base\\_Guidance.pdf](https://www.groundtrax.com/downloads/site/2018/2018_Sub-Base_Guidance.pdf).  
BOD PAVE 40. TO CAR PARKING AREAS

For installation and specification refer to the following link.

<https://www.groundtrax.com/wp-content/uploads/2022/11/Bodpave-40-Installation-Guide->

Gravel.pdf

Full specification of build-ups to be based on site CBR values.  
CBR values of respective areas to be determined by the contractor prior to preparation of subbases and installation of build-ups.

## System performance - Not Used

## Products

### 330 Natural stone setts Type A

---

1. Supplier: [Marshalls plc](#)
  - 1.1. Contact details
    - 1.1.1. Address: Landscape House  
Lowfields Business Park  
Elland  
West Yorkshire  
HX5 9HT
    - 1.1.2. Telephone: [+44 \(0\)330 0574472](tel:+44(0)3300574472)
    - 1.1.3. Web: [www.marshalls.co.uk](http://www.marshalls.co.uk)
    - 1.1.4. Email: [info@marshalls.co.uk](mailto:info@marshalls.co.uk)
  - 1.2. Product reference: [Arche Granite Paving \(Flamed\)](#)
2. Standard: To BS EN 1341.
3. Stone denomination
  - 3.1. Petrological family: Granite.
  - 3.2. Colour: Grey white background with black inclusions.
  - 3.3. Origin: Portugal.
4. Physical properties
  - 4.1. Profile
    - 4.1.1. Slab type: Regular plan form.
  - 4.2. Dimensions and associated tolerances
    - 4.2.1. Nominal sizes: 100 x 100 x 50mm
    - 4.2.2. Tolerances on plan dimension and thickness (nominal): Class 1.
    - 4.2.3. Tolerances on diagonals: Class 1.
    - 4.2.4. Tolerances on thickness: Class 1.
  - 4.3. Finish: Flamed.
5. Performance requirements
  - 5.1. Slip resistance: To BS 14231, 81 (dry); 65 (wet).
  - 5.2. Breaking load: To EN 12372, 10.49 MPa.
  - 5.3. Water absorption (maximum): To EN 13755, 0.31%.
6. Abrasion resistance: To EN 1341, 17 mm.
7. Durability: To EN 12371, 17.2/16.5 MPa.
8. Density: To EN 1936, 2613 kg/m<sup>3</sup>.
9. Porosity: To EN 1936, 0.8%.
10. CompressiveStrength: To EN 1926, 104 MPa.
11. Surface roughness: 52.3.
12. Light reflectance: 43.69.

## Execution

### 610 Material samples

---

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

### 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.

### 630 Levels of paving

---

1. Permissible deviation from specified levels
  - 1.1. Generally:  $\pm 6$  mm.
2. Height of finished paving above features
  - 2.1. At gullies: +6 to +10 mm.
  - 2.2. At drainage channels and kerbs: +3 to +6 mm.

### 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.

## 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. **Mortar bedded pavings:** Keep free from traffic after laying:
  - 4.1. Pedestrian traffic (minimum): As per manufacturer
  - 4.2. Vehicular traffic (minimum): As per manufacturer
5. **Access:** Restrict access to paved areas to prevent damage from site traffic and plant.

## Completion - Not Used

Ω End of Section

## Q26

### Special surfacings/ pavings for sport/ general amenity

#### Sports surfacing

##### 120 Surfacing for MUGA

---

1. Description: MULTISPORTS AREA
2. Type: Retain as grassed area for future use as MUGA

##### 130 Surfacing for Equipment requiring protection against fall from height over 1m

---

1. Description: LOCATED IN NORTHERN MEADOW
2. Type: Tigermulch
3. Permeability: As per manufacturer
4. Minimum life expectancy: 10 years
5. Health and safety
  - 5.1. Surfaces containing substance known to be toxic or carcinogenic on skin contact or released as vapour or dust during normal use: Not permitted.

##### 130 Surfacing for natural timber play equipment

---

1. Description: LOCATED IN SOUTHERN MEADOW
2. Type: Wood chip surfacing
3. Permeability: Not less than 180 mm/ hour
4. Minimum life expectancy: 5 years
5. Health and safety
  - 5.1. Surfaces containing substance known to be toxic or carcinogenic on skin contact or released as vapour or dust during normal use: Not permitted.

##### 150 Suitability of base/ sub-base

---

1. Preparation: Before starting work ensure the following:
  - 1.1. Accuracy: Base/ sub-base will permit specified flatness/ regularity of finished surfacing.
  - 1.2. Falls/ camber: Accurately incorporated in the base/ sub-base.

#### Impact attenuating surfacings for play areas

##### 310 Bark surfacing

---

1. Granular sub-base: As section Q20.
  - 1.1. Thickness: As per contractor
2. Geotextile membrane
  - 2.1. Manufacturer: Contractor's choice
    - 2.1.1. Product reference: Submit proposals
  - 2.2. Jointing: As manufacturer's recommendations
3. Surface course: Submit proposals
  - 3.1. Supplier: Submit proposals
    - 3.1.1. Product reference: Submit proposals
  - 3.2. Grade: Playground grade bark free from dust, pests, disease, weeds, coarse angular fragments and sharp pieces.



- 3.3. Nominal particle size: 20-80 mm, well graded.
- 3.4. Wood content (maximum): 5%.
- 3.5. Ease of ignition: To BS 7188.
- 3.6. Additives, dyes or any substance harmful to humans or the environment: Not permitted.
- 3.7. Depth (minimum): 200 mm
4. Submit
  - 4.1. Ease of ignition: Evidence of testing to BS 7188.
  - 4.2. Critical fall height: Evidence of testing to BS EN 1177.

## Associated accessories

### 420 Line markings to surfacing type Q26/

---

1. Description: TO FOOTBALL PITCH
2. Method of application: Submit proposals
3. Setting out: As per FA guidance
4. Colour: White
5. Width: As per FA guidance

## Execution - Not Used

## Completion

### 910 Sports surface testing

---

1. Standard: As appropriate to sport - TBC
2. Testing body: A United Kingdom Accreditation Service (UKAS) independent laboratory.
3. Timing: Within ten days of completing the surfacing works.
  - 3.1. Additional testing: At practical completion.
4. Notice before commencing tests: 7 days
5. Test results: Submit.

### 920 Play surface testing

---

1. Standard: To BS EN 1177 and BS 7188, where applicable.
2. Testing body: A United Kingdom Accreditation Service (UKAS) independent laboratory.
3. Timing: Within ten days of completing the surfacing works.
4. Test results: Submit.

### 930 Documentation

---

1. Standard: To BS EN 1176-1.
2. Submission requirements
  - 2.1. Name and contact details of installer.
  - 2.2. Date of installation.
  - 2.3. Name and contact details of manufacturer.
  - 2.4. Type/ description/ reference of products used.
  - 2.5. Manufacturer's recommended inspection and maintenance procedures to maintain safety and impact attenuating performance.
3. Manufacturer's recommended cleaning and maintenance methods, where relevant.

Ω End of Section



## Q28

# Topsoil and soil ameliorants

## System outline

### 115 Topsoil system for turfing and seeding

---

1. Description: FOR GRASS SEEDING AREAS
2. Composition
  - 2.1. Topsoil: Site-sourced topsoil
  - 2.2. Ameliorants: None
  - 2.3. Accessories: None

### 135 Planting bed topsoil system

---

1. Description: FOR ORNAMENTAL PLANTING BEDS
2. Composition
  - 2.1. Topsoil: Imported topsoil to BS 3882
  - 2.2. Ameliorants: Organic materials
  - 2.3. Accessories: None

### 145 Planting pit backfilling topsoil system

---

1. Description: FOR ORNAMENTAL PLANTING BEDS  
FOR 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: FOR ORNAMENTAL PLANTING BEDS  
FOR TREE PITS
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.

### **305 Permitted materials**

---

1. **Materials:** Composted bark Composted green waste Spent mushroom compost
2. **Give notice:** before ordering or using.
3. **Declaration of compliance in accordance with BS EN 13650:** Required

### **310 Materials not permitted**

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1. **Materials:** Products containing peat

### **315 Imported topsoil to BS 3882**

---

1. **Description:** FOR ORNAMENTAL PLANTING BEDS
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:** Contractor's choice
  - 5.1. **Product reference:** Contractor's choice

### **330 Imported manufactured topsoil/ growing medium**

---

1. **Description:** WHERE NOT POSSIBLE TO ACHIEVE THROUGH SITE SOURCED TOP SOIL FOR GRASS SEEDING
2. **Type:** Suitable for grass seeding
  - 2.1. **Soil textural class:** Any class as appropriate
3. **Source:** Contractor's choice
4. **Manufacturer:** Contractor's choice

### **355 Organic materials**

---

1. **Description:** FOR TOP DRESSING / MULCHING OF ORNAMENTAL PLANTING BEDS
2. **Type:** Bark
3. **Source:** Contractor's choice
  - 3.1. **Product reference:** Contractor's choice

### **380 Mycorrhizal inoculant**

---

1. **Description:** FOR TREE PITS
2. **Manufacturer:** Contractor's choice
  - 2.1. **Product reference:** Contractor's choice

### **401 Organic fertilizers**

---

1. **Description:** FOR ORNAMENTAL PLANTING BEDS
2. **Manufacturer/ source:** Contractor's choice
  - 2.1. **Product reference:** Contractor's choice
3. **Standard:** In accordance with the Fertilizer Industry Assurance Scheme (FIAS)
4. **Purpose:** General purpose fertilizer
5. **Type:** Sanitized and stabilized compost

6. Availability to plants: Slow-release

## Execution

### 605 Site investigation

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1. Report: See section XXX.

### 620 Importing topsoil

---

1. Give notice: Before stripping topsoil for transfer to site.
  - 1.1. Notice period: 5 days

### 625 Sample loads

---

1. Description: FOR IMPORTED TOPSOIL FOR ORGANIC MATERIAL
2. Deliver to site a sample load: of 5 kg
3. Give notice: Allow inspection before making further deliveries to site. Retain for comparison with subsequent loads.
  - 3.1. Notice period: 2 days

### 630 Documentation for imported topsoil

---

1. Description: FOR ORNAMENTAL PLANTING BEDS
2. Timing: Submit at handover.
3. Contents
  - 3.1. Full description of all soil components.
  - 3.2. Record of source for all soil components.
  - 3.3. Record drawings showing the location and depth of all soils by type and grade.
  - 3.4. Declaration of analysis: in accordance with BS 3882, clause 6 and Table 1.
4. Number of copies: Two

### 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: Not required
4. Number of copies: Two

### 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: 1 week

---

## 655 Mechanical tools

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

---

## 660 Grading subsoil for:

---

1. Description: FOR GRASSED AREAS  
FOR ORNAMENTAL PLANTING BEDS
2. Standard: In accordance with BS 8601.
3. General: Grade to smooth flowing contours to achieve specified finished levels of topsoil.
4. Areas of thicker topsoil: Excavate locally.
5. Avoid compaction.
6. Excess subsoil: Use on site.

---

## 665 Subsoil surface preparation for:

---

1. Description: GRASSED AREAS; ORNAMENTAL PLANTING AREAS
2. Standard: In accordance with BS 3882.
3. General: Excavate and/ or place fill to required profiles and levels, as section D20.
4. Loosening
  - 4.1. When ground conditions are sufficiently dry to allow breaking up of soils, loosen thoroughly to specified depth
    - 4.1.1. Light and noncohesive subsoils: 300 mm
    - 4.1.2. Stiff clay and cohesive subsoils: 600 mm
    - 4.1.3. Rock and chalk subgrades: Lightly scarify to promote free drainage.
  - 4.2. Wet conditions: Do not loosen subsoils.
5. Stones: Immediately before spreading topsoil, remove stones larger than 50 mm.
6. Remove from site: Arisings, contaminants and debris Builders rubble

---

## 670 Inspecting formations

---

1. Give notice: Before spreading topsoil for lawn areas planting beds.
2. Notice period: 7 days

---

## 675 Preparation of undisturbed topsoil

---

1. Standard: In accordance with BS 4428.
  - 1.1. Grading and cultivation: Category B
2. Hard ground: Break up thoroughly.
3. Clearing: Remove visible roots and large stones with a diameter greater than 50 mm.
4. Areas covered with turf or thick sward: Plough or dig over to full depth of topsoil.
5. Fallow period (minimum): Two months
  - 5.1. Weed control: At appropriate times re-cultivate at fortnightly intervals to suppress weed growth.

---

## 680 Surplus topsoil to be retained

---

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

## 685 Surplus materials to be removed

---

1. Topsoil removal from site: Not required
2. Subsoil, stones, debris, wrapping material, canes, ties, temporary labelling, rubbish, prunings and other arisings: Remove.

## 690 Topsoil storage heaps

---

1. Location: As drawing XXX
2. Height (maximum): 1.5 m
3. Width (maximum): 5.0 m
  - 3.1. Formation: Loose tip and shape from the side only, without running machinery on the heap at any time.
4. Protection
  - 4.1. Do not place any other material on top of storage heaps.
  - 4.2. Do not allow construction plant to pass over storage heaps.
  - 4.3. Prevent compaction and contamination, by fencing and covering as appropriate.

## 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. Give notice: If required levels cannot be achieved by movement of existing soil.

## 705 Handling topsoil

---

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

## 710 Spreading topsoil on:

---

1. Description: ORNAMENTAL PLANTING BEDS
2. Standard: In accordance with BS 3882.
3. Temporary roads/ surfacing: Remove before spreading topsoil.
4. Layers
  - 4.1. Depth (maximum): 150 mm.
  - 4.2. Gently firm each layer before spreading the next.
5. Depth after firming and settlement: 400 mm
6. Crumb structure: Do not compact topsoil. Preserve a friable texture of separate visible crumbs wherever possible.

## 715 Loose tipping of topsoil

---

1. Standard: In accordance with BS 3882.

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

### **718 Final cultivation**

---

1. **Description:** FOR GRASS SEEDING
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:** 150 mm
5. **Particle size (maximum):** 15 mm
6. **Timing:** Within a few days before planting
7. **Weather and ground conditions:** Suitably dry.
8. **Surface:** Leave regular and even.
9. **Levels:** 50 mm above adjoining lawns
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. **In relation to adjoining paving, kerbs or hard surfaces:** 50 mm below
2. **In relation to dpc of adjoining buildings:** Not less than 150 mm below.
3. **In relation to adjacent grass areas:** 25 mm above
4. **Seeded areas:** Extend cultivation into existing adjacent grassed areas sufficient to ensure full marrying in of levels.
5. **Within root spread of existing trees and shrubs to be retained:** Do not dig or cultivate.
6. **Adjoining soil areas:** Marry in.
7. **Thickness of turf or mulch:** Included.

### **805 Applying soil ameliorant**

---

1. **Description:** FOR ORNAMENTAL PLANTING BEDS
2. **Type:** Organic materials
3. **Fully incorporate into topsoil to a depth of** 150 mm.
4. **Application:** Spread evenly.
  - 4.1. **Timing:** Apply prior to cultivation.
  - 4.2. **Rate:** 1.2 m<sup>3</sup>/100 m<sup>2</sup>
5. **Timing:** Prior to cultivation.
6. **Other requirements:** Submit 5 kg sample before ordering

### **840 Applying mycorrhizal inoculant**

---

1. **Description:** FOR TREE PITS
2. **Depth:** To manufacturer's/ supplier's recommendations

### **845 Applying loose mulch**

---

1. **Description:** FOR ORNAMENTAL PLANTING BEDS
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: 50 mm depth
- 5. Finished level of mulch: 50 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

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.

#### 146 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 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 GRASS SEEDING AREAS  
FOR ORNAMENTAL PLANTING BEDS

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:** FOR GRASS SEEDING AREAS
2. **Operations:** Remove weeds by hand weeding and hoeing.

## 250 Soil requirements

---

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

## Seeding

### 310 Grass seed: SL01 - Amenity grass infill

---

1. **Description:** FOR SL01 AREAS INFILL, WHERE REQUIRED
2. **Mixture:** Emorsgate EG22 Strong lawn grass mixture (100% grass)  
Common Bent, Red Fescue, Perennial Ryegrass, Smooth-stalked Meadow-grass
3. **Application rate:** 25 g/m<sup>2</sup>

### 312 Wildflower seed mixture: SL03 - Picnic and edge areas

---

1. **Description:** FOR SL03 AREAS
2. **Supplier:** Emorsgate SEEDS

EMORSGATE SEEDS  
Neeps Bridge Farm  
Middle Drove  
Wisbech  
Cambridgeshire  
PE14 8JT

Call **01553 829028**

Email: [enquiries@emorsgateseeds.com](mailto:enquiries@emorsgateseeds.com)

- 2.1. **Mixture reference:** EM1 Basic general purpose meadow seed mix  
(10% wildflowers/90% grass)

WILDFLOWERS (10%): Yarrow, Common Knapweed, Wild carrot, Oxeye daisy, Musk mallow, Ribwort Plantain, Salad burnet, Meadow buttercup, Yellow rattle; GRASSES (90%): Common Bent, Crested Dogstail, Red Fescue, Smaller Cat's Tail, Smooth-stalked Meadow-grass
3. **Origin of each species** (as defined in Flora Locale's Code of practice for collectors, growers and suppliers of native flora): UK origin
4. **Application rate:** 4 g/m<sup>2</sup>

### 312 Wildflower seed mixture: SL05 -Feature wildflower areas

---

1. **Description:** FOR SL05 AREAS
2. **Supplier:** Emorsgate

EMORSGATE SEEDS  
Neeps Bridge Farm  
MeiLoc Ltd  
28-05-2024

Middle Drove  
Wisbech  
Cambridgeshire  
PE14 8JT

Call [01553 829028](tel:01553 829028)

Email: [enquiries@emorsgateseeds.com](mailto:enquiries@emorsgateseeds.com)

- 2.1. Mixture reference: EM3 Special general purpose meadow seed mix  
(20% wildflowers / 80% grass)  
with oversow of Corncockle & Corn Marigold

WILDFLOWERS (20%): Betony, Greater Knapweed, Oxeye Daisy, Musk Mallow, Ribwort Plantain, Yellow Rattle, Rough Chervil, Lady's Bedstraw, Bird's Foot Trefoil, Cowslip, Meadow Buttercup, Common Knapweed, Yarrow, Hedge Bedstraw, Salad Burnet, Red Campion, Ragged Robin, Meadow Vetchling, Viper's-Bugloss, Kidney Vetch, Hoary Plantain, Agrimony, Hedgerow Cranes'-bill, Meadowsweet, Wild Carrot, Field Scabious, Crosswort; GRASSES (80%): Common Bent, Crested Dogtail, Red Fescue, Smooth-stalked Meadow-grass

3. Origin of each species (as defined in Flora Locale's Code of practice for collectors, growers and suppliers of native flora): UK origin  
4. Application rate: 4 g/m<sup>2</sup>

### 319 Quality of seed

---

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

### 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

### 335 Grass sowing season

---

1. Grass seed generally: April to June or August to October

### 336 Wildflower sowing season

---

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

## Turfing - Not Used

## Protecting/cutting

### 510 Protective fencing

---

1. Fencing type: Chestnut pale fencing to BS 1722-4
  - 1.1. Height: 0.9 m

2. **Erection:** On completion of seeding/ turfing.
3. **Removal:** After grass is well established. Fencing will remain the property of the Contractor

### **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 site

### **550 Areas not to be cut**

---

1. **Do not cut:** 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**

### **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:** ALL 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:** 100 mm
4. **Preparation:** Before each cut remove all litter and debris.
5. **Cutting:** As and when necessary to a height of 50 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: When instructed

**650 Maintaining grassed areas with perennial wildflowers**

---

1. Duration: Carry out the following operations from completion of seeding/ turfing until: the end of the rectification period.
2. Preparation: Before each cut remove all litter and debris.
3. Height and frequency of cut in first growing season
  - 3.1. Time of first cut: March/ April
  - 3.2. Height of first cut: 100 mm
  - 3.3. Frequency of subsequent cutting (minimum): Every 6-8 weeks until autumn
  - 3.4. Height of growth permitted (maximum): 150 mm
4. Height and frequency of cut in second growing season
  - 4.1. Time of cut: Single cut in October
  - 4.2. Height of cut: 100 mm
5. Trimming: All edges.
  - 5.1. Arisings: Remove.
6. Watering: When instructed

**660 Maintaining grassed areas with annual wildflowers**

---

1. Duration: Carry out the following operations from completion of seeding/ turfing until: the end of the rectification period.
2. Preparation: Before each cut remove all litter and debris.
3. Timing of first cut: After flowers have set seed.
4. Height of first cut: 100 mm
5. Subsequent cutting: As necessary, so the height of growth does not exceed 100 mm.
  - 5.1. Height of cut: 100 mm
6. Trimming: All edges.
  - 6.1. Arisings: Remove
7. Watering: When instructed

Ω End of Section

## Q31

# External planting

### 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:** Clear surface vegetation in areas shown on drawings using suitable nonresidual herbicide
5. **Large roots:** Grub up and dispose of without undue disturbance of soil and adjacent areas.
6. **Additional requirements:** Remove topsoil in areas to be disturbed. Retain and store on site as per drawing XXX. Ensure movement and storage of soil is in accordance with Q28 and DEFRA Construction Code of Practice for the Sustainable Use of Soils on Construction Sites [https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment\\_data/file/716510/pb13298-code-of-practice-090910.pdf](https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/716510/pb13298-code-of-practice-090910.pdf)

#### 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. **Wildflower plugs:** Late August to mid November or March/ April.

#### 130 Mechanical tools

---

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

#### 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: One week

## 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. 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:** 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 (available on CS Design Software Limited's website).

## 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: Impact of pest/ disease.

### 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.

## 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 WHERE SEEDING AND PLANTING IS TO BE INSTALLED; WITHIN SOIL STOCKPILES
2. **Locations:** All planting areas where required
3. **Type:** Suitable for supressing 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 ALL BEDS
2. **Spacing:** As plant schedule
3. **Density:** As plant schedule

### 405 Shrub planting pits

---

1. **Timing:** Excavate 1-2 days (maximum) before planting.
2. **Sizes:** As plant schedule
3. **Pit bottom improvement** Break up to a depth of 150 mm, incorporating 10 kg compost.

### 445 Planting bulbs/ Corms/ Tubers

---

1. **Depth:** Top of bulb/ corm/ tuber at a depth of approximately twice its height, base in contact with bottom of hole.
2. **Backfilling:** Finely broken soil. Lightly firm to existing ground level.

### 455 Planting wildflower plugs

---

1. **Handling:** Keep plants watered and in shade until planted. Do not allow to dry out.
2. **Preparation:** Remove brambles, coarse and invasive weeds from planting sites.
3. **Planting in grass:** Close mow to approximately 50 mm. Remove arisings.
4. **Planting sites:** As drawing 1005
5. **Planting:** Into a hole to suit plug size and shape. Create a cleft at bottom of hole to improve rooting. Gently firm plant into hole.

### 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

### 500 Tree planting

---

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

### 505 Tree pits

---

1. **Sizes:** 75 mm wider than the root spread, and same depth as the rootball
2. **Sloping ground:** Maintain horizontal bases and vertical sides with no less than minimum depth throughout.
3. **Excavated material:** Separate topsoil and subsoil material and stockpile for backfilling Remove arisings
4. **Pit bottoms:** Excavate with slightly raised centre: Do not disturb base.
  - 4.1. **Treatment:** Soil ameliorant worked into pit bottoms
5. **Pit sides:** Scarify.
6. **Backfilling material:** Proprietary tree backfilling material, as section Q28

### 512 Tree pit irrigation and ventilation accessories

---

1. **Locations:** To all tree pits adjacent paved areas
2. **Manufacturer:** Submit proposals
  - 2.1. **Product reference:** Submit proposals
3. **Type:** Perforated plastics irrigation pipe with inlet
4. **Pipe diameter:** Submit proposals 50 mm
5. **Ring diameter:** 1300 mm
6. **Inlet:** Black plastics, with cap
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.

### 526 Underground guying for: MULTI-STEM TREES

---

1. **Description:** Platipus Tree Anchors. Ref RF1P
2. **Manufacturer:** Platipus.  
<https://platipus-anchors.com/wp-content/uploads/2018/03/Platipus-Tree-Anchoring-Systems-Brochure-210318.pdf#page=10>
  - 2.1. **Product reference:** RF1P
3. **Anchoring system:** As Product Reference
4. **Installation:** Ensure tree is positioned correctly and vertically prior to tightening guy line tensioners.

### 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:** Contractor's choice
2. **Stake size (minimum):** Submit proposals 50 mm diameter
3. **Stake length (minimum):** 1200 mm

## 550 Double staking for

---

1. Description: SPECIMEN STANDARD TREES
2. Staking
  - 2.1. Position: Either side of tree position and perpendicular to wind direction.
  - 2.2. Driving: Vertically at least 300 mm into bottom of pit before planting.
  - 2.3. Backfilling: Consolidate material around stake.
  - 2.4. Firming: Sufficiently firm to prevent movement of the rootball/ rootstock.
3. Height of stakes: Cut off at approximately one third of the height of the clear stem of tree
4. Horizontal bracing:

<https://www.green-tech.co.uk/tree-planting-products/tree-ties-and-support/holdfast-natural-tree-tie>

- 4.1. Fixing: Contractor's choice
5. Ties: Expanding
6. Tying: Secure tree tie around tree stem firmly without causing constriction or chafing

## 566 Tree protection: Specimen trees

---

1. Manufacturer: Green-tech
  - 1.1. Product reference:

## Weld Mesh Tree Shelter Guard

**PRODUCT CODE: 160PS1622-PRO**

<https://www.green-tech.co.uk/tree-planting-products/tree-protection-and-shelters/weld-mesh-tree-shelter-guard>

2. Type: Round
3. Material: Wire mesh
4. Size: 1.2 m high x 300 mm diameter
5. Colour: n/a
6. Support: Two timber stakes as tree staking.
7. General: Ensure that protection methods do not impede natural movement of trees or restrict growth.

## 566 Tree protection: Whips

---

1. Manufacturer: British Hardwood Tree Nursery. <https://www.britishhardwood.co.uk/nexgen-tree-shelters>
  - 1.1. Product reference: Next-Gen Tree Shelter
2. Type: Round
3. Material: Wool.
4. Size: 60mm high min
5. Colour: as product

6. **Support:** Single bamboo cane
7. **General:** Ensure that protection methods do not impede natural movement of trees or restrict growth.

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

---

1. **Surfacing material:** Mulch, as section Q28
2. **Area:** Full extent of tree pit surface
3. **Depth:** 50 mm
4. **Watering:** Water soil thoroughly before laying.
5. **Installation:** Ensure the base of the tree stem is kept free from loose filled material.

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

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

---

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

### **645 Planting in turf: Whips**

---

1. **Notching:** Make a vertical slit from the centre of the turf, to the side away from the prevailing wind.
  - 1.1. **Depth:** To accommodate full depth of roots.
2. **Planting:** Plant tree, close notch with root collar at ground level and firm the soil.

### **665 Setting out**

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1. **Distance between trees:** As drawing 1005
2. **Distance between rows:** As drawing 1005

### **680 Setting out**

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1. **Planting density:** As plant schedule
2. **Layout:** As drawing 1005

### **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:** Weekly during growing season

### **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

### 730 Protective fencing

---

1. Fencing type: Cleft chestnut pale fencing, as section Q40
2. Erection: On completion of planting.
3. Removal: By others

### 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. Firming up: Gently firm loosened soil around trees/ shrubs. Straighten leaning trees/ shrubs.
5. Trees: Spray crown when in leaf during warm weather.
  - 5.1. Timing: After dusk.
6. Tree accessories: Check condition of stakes, ties, guys, guards and irrigation and ventilation systems.
  - 6.1. Broken or missing items: Replace.
  - 6.2. Loose stakes: Re-firm in the ground or replace as necessary to provide support to the tree.
  - 6.3. Loose guys: Re-firm anchor points and adjust as necessary to provide support to the tree.
  - 6.4. Ties: Adjust to accommodate growth and prevent constriction or abrasion.
  - 6.5. Damage to bark: Cut back neatly with sharp knife. Prevent further damage.
  - 6.6. Frequency of checks: At each scheduled maintenance visit
7. Watering: As required for healthy establishment, depending on weather conditions

### 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.

### 780 Maintenance instructions

---

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

### 790 Final mulching

---

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

### Generally

#### 105 Maintenance objectives

---

1. Location: SITE WIDE
  - 1.1. Duration: 2 years' establishment and ongoing maintenance thereafter
2. Aims: Maintain positive differentiation between the various of landscape areas, ensuring wildflower areas are maintained in accordance with the respective specification and that the plants, shrubs and trees are kept in a healthy condition.

#### 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: Two 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: No site supply available; submit proposals
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: Leave for two to three days after cutting and then remove
  - 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. Prohibited equipment: Chippers Leaf blowers Litter vacuums



3. **Timing:** Use of mechanical equipment allowed between the hours of 10:00 am and 4:00 pm only and with permission from Camborne Town Council

---

## 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.

---

## 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 use mowing machinery closer than 100 mm to tree stems. Use nylon filament rotary cutters and other handheld mechanical tools carefully to avoid damage to bark

---

## 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:** TO SOUTHERN MEADOW  
REFER TO DRAWING 1005
2. **Width (approximate):** 150 mm.

## **250 Leaf removal**

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1. **Operations:** Collect fallen leaves in ornamental areas (sensory garden and wildflower) and where they present a hazard on pathways.
2. **Special requirements:** Remove by hand raking
3. **Disposal:** Remove from site for recycling

## **262 Mowing sports fields**

---

1. **Grass height:** 25 mm maximum or as specific FA requirements; As per Camborne Town Council
2. **Arisings:** Remove

## **270 Mowing rough-grassed areas**

---

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

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

---

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:** March/ April  
Refer to Q30
  - 2.2. **Height of first cut:** 100 mm
3. **Height and frequency of cut in second growing season**
  - 3.1. **Time of cut:** October, March and August
  - 3.2. **Height of cut:** 50 mm
4. **Trimming:** All edges.
  - 4.1. **Arisings:** Remove.
5. **Watering:** When instructed

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

---

1. **Preparation:** Before each cut remove all litter and debris.
2. **Timing of first cut:** After flowers have set seed.  
Refer to Q30
3. **Height of first cut:** 100 mm
4. **Trimming:** All edges.
  - 4.1. **Arisings:** Remove
5. **Watering:** When instructed

## **309 Edges to seeded areas**

---

1. **Location:** REFER TO DRAWING 1005
2. **Timing:** After seeded areas are well established.
3. **Method:** Cut to clean, straight lines or smooth curves. Draw back soil to permit edging.
4. **Arisings:** Remove.

## **320 Levelling hollows and bumps in turf**

---

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

### 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.

### Shrubs/ trees/ hedges

#### 500 Establishment of new planting

---

1. Duration: Two full growing seasons from the date of planting
2. Weed control
  - 2.1. Method: Keep planting beds clear of weeds by Hoeing and screefing 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 schedule 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:** Do not remove

## 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.

## 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.

## 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.

## 615 Trimming field hedges

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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.

## 630 Dead and diseased plants

---

1. **Removal:** Within one week of notification
2. **Replacement:** Within two weeks

## 645 Weed control generally

---

1. **Weed tolerance:** Weed to clear ground every two weeks
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.

## 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.

## 690 Maintenance of loose mulch

---

1. **Thickness (minimum):** 50 mm
  - 1.1. **Top up:** Every six weeks
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:** During February or March
2. **Type of fertilizer:** Organic
3. **Application:** Spread evenly.
  - 3.1. **Rate:** As manufacturer's recommendations

## 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 with Camborne Town Council.
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.

## Water areas - Not Used

## 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

## Q40 Fencing

### Fencing systems

#### 126 Metal mesh panel fencing systems Type A - To rear of Pavilion

---

1. Manufacturer: [Jacksons Fencing](#)
  - 1.1. Contact details
    - 1.1.1. Address: 209 Stowting Common  
Ashford  
Kent  
TN25 6BN
    - 1.1.2. Telephone: [0800 408 4757](tel:08004084757)
    - 1.1.3. Web: [www.jacksons-security.co.uk](http://www.jacksons-security.co.uk)
    - 1.1.4. Email: [sales@jacksons-fencing.co.uk](mailto:sales@jacksons-fencing.co.uk)
  - 1.2. Product reference: [EuroGuard® Extra Fencing](#)
2. Category: 2.
3. Posts: 80 x 60 mm rectangular hollow section (RHS) with anti-tamper connectors.
4. Post foundations: Over length set in concrete.
5. Panels: V-mesh panels, 2410 mm high.
6. Fence topping: Fence spikes.
7. System accessories: Matching gates.
8. Worked finish: Galvanized and powder-coated, black RAL 9005.

### Gates, posts and stiles - Not Used

### Accessories - Not Used

### Execution

#### 710 Installation generally

---

1. Set out and erect
  - 1.1. Alignment: Straight lines or smoothly flowing curves.
  - 1.2. Tops of posts: Following profile of the ground.
  - 1.3. Setting posts: Rigid, plumb and to specified depth, or greater where necessary to ensure adequate support.
  - 1.4. Fixings: All components securely fixed.

#### 720 Setting posts in concrete

---

1. Standard: To BS 8500-2.
2. Mix: Designated concrete not less than GEN1 or Standard prescribed concrete not less than ST2.
3. Alternative mix for small quantities: 50 kg Portland cement to 150 kg fine aggregate to 250 kg 20 mm nominal maximum size coarse aggregate, medium workability.
4. Admixtures: Do not use.
5. Holes: Excavate neatly and with vertical sides.
6. Filling: Position post/ strut and fill hole with concrete to not less than the specified depth, well rammed as filling proceeds and consolidated.

7. Backfilling of holes not completely filled with concrete: Excavated material, well rammed and consolidated.

## 780 Making good galvanized surfaces

---

1. Treatment of minor damage (including on fasteners and fittings): 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.
2. Thickness: Apply sufficient material to provide a zinc coating at least equal in thickness to the original layer.

## 790 Site painting

---

1. Timing: Prepare surfaces and apply finishes as soon as possible after fixing.

## 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.

## 930 Gates

---

1. Hinges, latches and closers: Adjust to provide smooth operation. Lubricate where necessary.
  - 1.1. Timing: Before handover.

Ω End of Section



## Q50

### Site/ street furniture/ equipment

#### Gates, barriers and parking controls

##### 120 Steel gate. (Only to be undertaken if existing gate cannot be re-used)

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1. Description: TO NORTHWEST ENTRANCE
2. Manufacturer: Contractor's choice
  - 2.1. Product reference: TO MATCH EXISTING EAST ENTRANCE GATE
3. Standard: To BS 4092-1.
4. Materials and workmanship: As section Z11.
5. Jointing: Welded.
6. Finish as delivered: Hot-dip galvanized to BS EN ISO 1461 after fabrication
  - 6.1. Colour: None
7. Fittings and accessories: AS APPROPRIATE
8. Method of setting posts: Concrete foundation

##### 190 Bollards

---

1. Description: Bollards to car parking entrances
2. Manufacturer: Streetlife  
  
Tel: 02030 201509  
  
enquiriesUK@streelife.com
  - 2.1. Product reference: ROUGH AND READY BOLLARDS
3. Material: FSC hardwood and corten steel
  - 3.1. Finish as delivered: As manufactured
  - 3.2. Colour: None
4. Height above ground: 450 mm
5. Sectional size: 150 x 150 mm square
6. Top: Flat
7. Method of fixing: As per manufacturers instructions

##### 196 Removable bollards

---

1. Description: Removable bollards to car parking entrances
2. Manufacturer: Streetlife  
  
Tel: 02030 201509  
  
enquiriesUK@streelife.com
  - 2.1. Product reference: ROUGH AND READY REMOVABLE BOLLARDS (BOLR)
3. Material: FSC hardwood and corten steel
  - 3.1. Finish as delivered: As manufactured
  - 3.2. Colour: None
4. Height above ground: 450 mm
5. Sectional size: 150 x 150 mm square
6. Top: Flat

7. Special features: Removable
8. Method of fixing: Concrete base with manufacturer's standard lockable socket

## Site and street furniture

### 210 Cycle stands

---

1. Manufacturer: [Vestre](#)
  - 1.1. Contact details
    - 1.1.1. Address: Profile West Suite 2, Floor 1  
950 Great West Road  
Brentford  
TW8 9ES
    - 1.1.2. Telephone: [+44\(0\)207 846 8725](tel:+44(0)207 846 8725)
    - 1.1.3. Web: [www.vestre.com](http://www.vestre.com)
    - 1.1.4. Email: [uk@vestre.com](mailto:uk@vestre.com)
  - 1.2. Product reference: Vroom bicycle stand large, casting in ground, 696C
2. Foundations: Concrete foundation.
3. Equipment: Extruded aluminium cycle stand.
4. Aluminium finish: Powder coated - RAL xxxx
5. Fixing: Type C - Concreting.
6. Dimensions: 850 x 600 x 70 mm.
7. Corrosion class (grid): To EN ISO 12944, C5-M.
8. Type: Single stands

### 220 Benches: Perimeter pathways

---

1. Description: ADJACENT TO PERIMETER PATHWAY
2. Manufacturer: [Vestre](#)
  - 2.1. Contact details
    - 2.1.1. Address: Profile West Suite 2, Floor 1  
950 Great West Road  
Brentford  
TW8 9ES
    - 2.1.2. Telephone: [+44\(0\)207 846 8725](tel:+44(0)207 846 8725)
    - 2.1.3. Web: [www.vestre.com](http://www.vestre.com)
    - 2.1.4. Email: [uk@vestre.com](mailto:uk@vestre.com)
  - 2.2. Product reference: APRIL Stavenger bench seat 724C with backrest and armrests, casting in the ground  
  
<https://vestre.com/uk/products/seating/april-seat-2>
3. Material: Steel and wood
  - 3.1. Finish: Hot-dip galvanized to BS EN ISO 1461 & Polyester powder-coated
  - 3.2. Colour: RAL - Colour TBC
4. Size: 1912mm long
5. Accessories/ Special requirements: Armrests to each end
6. Method of fixing: As per manufacturer's instructions

### 230 Combined outdoor tables and seating Picnic bench

---

1. Manufacturer: [Vestre](#)

MeiLoc Ltd  
28-05-2024

1.1. Contact details

- 1.1.1. Address: Profile West Suite 2, Floor 1  
950 Great West Road  
Brentford  
TW8 9ES
- 1.1.2. Telephone: +44(0)207 846 8725
- 1.1.3. Web: [www.vestre.com](http://www.vestre.com)
- 1.1.4. Email: [uk@vestre.com](mailto:uk@vestre.com)

1.2. Product reference: [Berg Picnic Table](#)

- 2. Length: 1800 mm.
- 3. Base: Ground mounted.
- 4. Material: Linseed oil proofed Nordic pine (standard wood).
- 5. Finish as delivered: Hot-dip galvanized and powder-coated steel.
- 6. Colours: RAL colour. TBC
- 7. Lengths: 1800 mm.
- 8. Weight: 80 kg.
- 9. Accessories: Extended version for wheelchair users.
- 10. Third-party certification: Intertek certified.
- 11. Diameter: Ø42 mm.
- 12. Corrosion class (grid): C5-M.
- 13. Width: 1450 mm.
- 14. Height: 735 mm.

## 242 Recycling bins: Powder coated

---

- 1. Description: FOR RECYLING OF WASTE - ADJACENT TO COMMUNITY BUILDING
- 2. Manufacturer: STREETLIFE
  - 2.1. Product reference: Box bins extra slim, with closed walls and rain cover  
  
<https://www.streetlife.nl/en/products/box-bins-extra-slim>
- 3. Material: Stainless steel
  - 3.1. Finish: As manufactured
  - 3.2. Colour: RAL TBC
- 4. Accessories/ Special requirements: Closed walls and rain cover  
1 off with PET print and graphic symbol  
1 off with ALU print and graphic symbol
- 5. Method of fixing: As per manufacturer's instructions

## 242 Litter bins: Powder coated - GENERAL WASTE

---

- 1. Description: FOR GENERAL WASTE
- 2. Manufacturer: STREETLIFE
  - 2.1. Product reference: Box bins extra slim, with closed walls and rain cover  
  
<https://www.streetlife.nl/en/products/box-bins-extra-slim>
- 3. Material: RAL colour TBC - to match picnic benches
  - 3.1. Finish: As manufactured
  - 3.2. Colour: None
- 4. Accessories/ Special requirements: Casual dots pattered walls and rain cover

5. Method of fixing: As per manufacturer's instructions

### 350 Bee posts

---

1. Description: BEEPOST BEE TOWER
2. Manufacturer: Green & Blue  
+44 (0)1872 858658  
[info@greenandblue.co.uk](mailto:info@greenandblue.co.uk)  
  
Part of Wildcare Ltd,  
Eastgate House,  
Moreton Road,  
Longborough,  
Gloucestershire,  
GL56 0QJ  
  
<https://www.greenandblue.co.uk/products/beepost>
  - 2.1. Product reference: Beepost Bee Tower 2300mm
3. Material: Concrete using waste material from Cornish china clay industry
  - 3.1. Finish: Concrete
  - 3.2. Colour: None
4. Accessories/ Special requirements: South facing
5. Method of fixing: Concrete in ground

### 350 Nesting boxes: Bats

---

1. Description: BAT BOX
2. Manufacturer: Schwegler
  - 2.1. Product reference: Schwegler 2F
3. Material: Woodcrete
  - 3.1. Finish: As manufactured
  - 3.2. Colour: None
4. Accessories/ Special requirements: Concealed, vandal proof fixings
5. Method of fixing: Tree-mounted

### 350 Nesting boxes: Birds

---

1. Description: BIRD BOX
2. Manufacturer: Vivara Pro
  - 2.1. Product reference: Vivara Pro Seville 32mm WoodStone Nest Box
3. Material: Woodstone
  - 3.1. Finish: As manufactured
  - 3.2. Colour: None
4. Accessories/ Special requirements: Concealed, vandal proof fixings
5. Method of fixing: Tree-mounted

## Installation

### 510 Concrete foundations generally

---

1. Standard: To BS 8500-2.
2. Concrete: As per contractor

3. **Admixtures:** Do not use.
4. **Foundation holes:** Neat vertical sides.
5. **Depth of foundations, bedding, haunching:** Appropriate to provide adequate support and to receive overlying soft landscape or paving finishes.

### **515 Setting components in concrete**

---

1. **Holes:** As per manufactures' instructions
2. **Components:** Accurately positioned and securely supported.
3. **Concrete fill:** Fully compacted as filling proceeds.
4. **Concrete foundations exposed to view:** Compacted until air bubbles cease to appear on the upper surface, then weathered to shed water and trowelled smooth.
5. **Temporary component support:** Maintain undisturbed for minimum 48 hours.

### **550 Damage to galvanized surfaces**

---

1. **Minor damage in areas up to 40 mm<sup>2</sup> (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

### General

#### 133 Football pitch

---

1. Description: REINSTATED INSITU PITCH
2. Equipment: REFER TO DRAWING 1002  
Submit design and cost proposals
3. Surfacing: None
4. Containment: Not required
5. Accessories: None

#### 140 Multi-use games area

---

1. Description: TO MUGA AREA  
REFER TO DRAWING 1002

Retain area identified as grass, ready for future ground works and installation of MUGA, as defined and specified by Camborne Town Council

#### 155 Skate park - Design & Build contract

---

1. Description: D&B ELEMENT BY CANVAS SPACES

CANVAS Spaces Limited

Polygon Yard  
39a Islington Road  
Bristol  
BS3 1QB

t. +44 (0)117 379 0881

e. [info@canvasspaces.co.uk](mailto:info@canvasspaces.co.uk)

REFER TO CONTRACTOR'S DRAWINGS

2. Equipment: As contractor's drawings
  - 2.1. System manufacturer: Canvas Spaces
3. Surfacing: As contractors drawings
4. Containment: Contractor's choice
5. Accessories: Seats, as section Q50  
Litter bins, as section Q50  
Planting, as drawing 1005 and section Q31

### System performance - Not Used

### Products

#### 320 Balance beam

---

1. Description: TO SOUTHERN MEADOW OF PARK
2. Standard: To BS EN 1176-1.
3. Manufacturer: Timber Play GmbH

- 3.1. Product reference: Balance blocks
- 4. Materials: Wood
  - 4.1. Finish: None
  - 4.2. Colour: Manufacturer's standard
- 5. Length: 3m
- 6. Height: 350 mm
- 7. Features: Vandal proof fixings
- 8. Method of fixing: Manufacturer's standard

## **320 Jumping Discs**

---

- 1. Description: TO SOUTHERN MEADOW OF PARK
- 2. Standard: To BS EN 1176-1.
- 3. Manufacturer: Timber Play GmbH
  - 3.1. Product reference: Jumping Discs
- 4. Materials: Wood
  - 4.1. Finish: None
  - 4.2. Colour: Manufacturer's standard
- 5. Length: 1m diameter
- 6. Height: 350 mm
- 7. Features: Vandal proof fixings
- 8. Method of fixing: Proprietary anchored bases

## **320 See-saw with shock absorber**

---

- 1. Description: TO SOUTHERN MEADOW OF PARK
- 2. Standard: To BS EN 1176-1.
- 3. Manufacturer: Timber Play GmbH
  - 3.1. Product reference: See-saw with shock absorber
- 4. Materials: Wood
  - 4.1. Finish: None
  - 4.2. Colour: Manufacturer's standard
- 5. Length: 4m
- 6. Height: As drawing ???
- 7. Features: Vandal proof fixings
- 8. Method of fixing: Manufacturer's standard

## **440 Swinging equipment**

---

- 1. Description: TO NORTH MEADOW, NEAR SKATEPARK AREA
- 2. Standard: To BS EN 1176-1 and -2.
- 3. Manufacturer: Kompan
  - 3.1. Product reference: Steel swing H: 2.5m, 1m rope seat; KSW92011
- 4. Seats: 2 swings, 1 rope
  - 4.1. Materials: Galvanised steel
  - 4.2. Ground clearance: Manufacturer's standard
- 5. Features: Anti-wrap chain
- 6. Method of fixing: Manufacturer's standard

### **560 Exercise equipment - In ground trampoline**

---

1. Description: TO NORTH MEADOW, NEAR GYM EQUIPMENT
2. Manufacturer: Proludic
  - 2.1. Product reference: R34-ETP-000
3. Type: In ground trampoline 1.5 x 1.5m
4. Materials: As manufactured
  - 4.1. Finish: As manufactured
5. Features: Manufacturer's standard
6. Method of fixing: Manufacturer's standard

### **560 Exercise equipment - Street workout frame**

---

1. Description: TO NORTH MEADOW, NEAR SKATEPARK
2. Manufacturer: Kompan
  - 2.1. Product reference: FSW101
3. Type: Combi 1
4. Materials: Steel
  - 4.1. Finish: Polyester powder coated - RAL XXX
5. Features: Manufacturer's standard
6. Method of fixing: Manufacturer's standard

### **560 Exercise equipment - Table tennis table**

---

1. Description: TO NORTH MEADOW, NEAR GYM EQUIPMENT
2. Manufacturer: Redlynch Leisure
  - 2.1. Product reference: Shanghai metal table tennis table
3. Type: TABLE TENNIS TABLE
4. Materials: As manufactured
  - 4.1. Finish: Polyester powder coated - RAL XXX
5. Features: Manufacturer's standard
6. Method of fixing: Manufacturer's standard

### **560 Exercise equipment - Gym equipment (1)**

---

1. Description: TO GYM EQUIPMENT AREAS
2. Manufacturer: Wicksteed
  - 2.1. Product reference: 6210-071
3. Type: INCLUSIVE HAND BIKE
4. Materials: As manufactured
  - 4.1. Finish: Polyester powder coated - RAL XXX
5. Features: Manufacturer's standard
6. Method of fixing: Manufacturer's standard

### **560 Exercise equipment - Gym equipment (2)**

---

1. Description: TO GYM EQUIPMENT AREAS
2. Manufacturer: Wicksteed
  - 2.1. Product reference: 6210-077
3. Type: SKIER



4. Materials: As manufactured
  - 4.1. Finish: Polyester powder coated - RAL XXX
5. Features: Manufacturer's standard
6. Method of fixing: Manufacturer's standard

### **560 Exercise equipment - Gym equipment (3)**

---

1. Description: TO GYM EQUIPMENT AREAS
2. Manufacturer: Wicksteed
  - 2.1. Product reference: 6210-075
3. Type: TWO WHEEL SPINNER
4. Materials: As manufactured
  - 4.1. Finish: Polyester powder coated - RAL XXX
5. Features: Manufacturer's standard
6. Method of fixing: Manufacturer's standard

### **560 Exercise equipment - Gym equipment (4)**

---

1. Description: TO GYM EQUIPMENT AREAS
2. Manufacturer: Wicksteed
  - 2.1. Product reference: 6210-084
3. Type: HYPER EXTENSION BENCH
4. Materials: As manufactured
  - 4.1. Finish: Polyester powder coated - RAL XXX
5. Features: Manufacturer's standard
6. Method of fixing: Manufacturer's standard

## **Execution**

### **710 Play equipment installation generally**

---

1. Standard: To manufacturer's written instructions provided in accordance with BS EN 1176-1.

### **750 Damage to galvanized surfaces**

---

1. Minor damage in areas up to 40 mm<sup>2</sup> (including on fixings and fittings): Make good.
  - 1.1. Materials: 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.

## **Completion**

### **910 Inspection**

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1. Standard: In accordance with equipment manufacturer's maintenance and inspection instructions
2. Timing: Give reasonable notice before covering up
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

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1. **Standard:** To BS EN 1176-1.

### 940 Labels

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1. **Standard:** To BS EN 1176-1; To BS EN 14974
2. **Labels:** Provide permanent labelling on all types of play equipment.
3. **Location:** Where visible when erected on site.

### 950 Documentation

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1. **Standard:** To BS EN 1176-1; To BS EN 14974
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:** TBC
4. **Submission:** 2 weeks prior to date when work is expected to be practically complete

### 960 Spares

---

1. **General:** At completion provide the following: Ten anti-vandal fixings.

Ω End of Section

## Z21 Mortars

### Cement gauged mortars

#### 110 Cement gauged mortar mixes

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1. Specification: Proportions and additional requirements for mortar materials are specified elsewhere.

#### 200 Storage of cement gauged mortar materials

---

1. Sands and aggregates: Keep different types/ grades in separate stockpiles on hard, clean, free-draining bases.
2. Factory made ready-mixed lime:sand/ ready to use retarded mortars: Keep in covered containers to prevent drying out or wetting.
3. Bagged cement/ hydrated lime: Store off the ground in dry conditions.

#### 210 Making cement gauged mortars

---

1. Batching: By volume. Use clean and accurate gauge boxes or buckets.
  - 1.1. Mix proportions: Based on dry sand. Allow for bulking of damp sand.
2. Mixing: Mix materials thoroughly to uniform consistency, free from lumps.
  - 2.1. Mortars containing air entraining admixtures: Mix mechanically. Do not overmix.
3. Working time (maximum): Two hours at normal temperatures.
4. Contamination: Prevent intermixing with other materials.

### Lime:sand mortars - Not Used

Ω End of Section



Specification created using NBS Chorus