

AtkinsRéalis

Blessed Carlo Acutis Catholic School

BCA-ATK-XX-SP-LA-423001

BCA Landscape

P06

FOR CONSTRUCTION

20-08-2025

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D20 Excavating and filling

Summary

Revision history

Date	No.	Title	Status	Revision	Note
14/06/2023	REV A	BCA Landscape	DRAFT FOR REVIEW		
14/06/2023	REV 0.1	BCA Landscape	DRAFT FOR REVIEW		
14/06/2023	0.1	BCA Landscape	DRAFT FOR REVIEW		
15/06/2023	1.0	BCA Landscape	For Information		
30/06/2023	2.0	BCA Landscape	For Information	Steps and handrail added	
26/07/2023	DRAFT	BCA Landscape			
03/08/2023		BCA Landscape	STAGE 4 ISSUE		
06/01/2025		DRAFT for internal check and review			
06/01/2025		DRAFT for internal check and review			
19/08/2025	P04	BCA Landscape	For Construction	P04	
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20/08/2025	BCA-ATK-XX-SP-LA-423001	BCA Landscape	P06		
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Generally/the site

145 Variations in ground water level

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

151 Existing services, features and structures

1. Refer to drawings for locations of existing services
2. Locations of existing services, features and structures to be checked and verified on site by the contractor through reference to site surveys (available on request), existing service drawings, ground penetrating radar or hand excavation.

Clearance/excavating

164 Tree roots

1. Refer to BS5837:2012
2. Root Protection Are (RPA) is the area related to existing trees to be protected, as per BS5837:2012
3. **Protected area:** Do not cut roots within precautionary protection area.
 - 3.1. **Size of area:** As per Arboricultural Protection Plans and Arboricultural Method Statements and referred to in Tree Reports and associated documents.
4. **Excavation in protected area**
 - 4.1. **Method:** By hand and/or as directed by a suitably qualified and experienced Arboriculturist
 - 4.2. Roots, if exposed, should be immediately wrapped or covered to prevent desiccation (removed before backfilling) and/or as Arboricultural Method Statement
 - 4.3. Prior to backfilling, retained roots should be surrounded with topsoil or compacted sharp sand, before soil or other suitable material is replaced (all materials to be free from contaminants) and/or as Arboricultural Method Statement
 - 4.4. Backfill as soon as possible or temporarily line with polyethylene sheet to reduce evaporation.
 - 4.5. If there are roots greater than 25mm diam. notify CA/Atkins Arboriculture
5. **Outside protected area:** Give notice of roots exceeding 25 mm and do not cut without approval.
6. **Cutting**
 - 6.1. Make clean smooth cuts with no ragged edges.
 - 6.2. Pare cut surfaces smooth with a sharp knife.
 - 6.3. **Treatment of cut roots:** Not required
7. **Backfill:** As dug material, enriched with phosphate fertilizer

166 Tree root barriers

1. **Trench:** Sever all roots.
 - 1.1. **Depth:** as per Arboricultural Method Statement/ Arboriculture advice
2. **Root barrier:** as per Arboricultural Method Statement/ Arboriculture advice
3. **Cutting roots:** As clause 164.
4. **Root barrier installation:** Full depth of excavation. Fit closely to trench wall nearest the tree.
5. **Backfill material:** As dug material excavated from trench.
6. **Backfilling:** Lay and compact thoroughly in layers not more than 300 mm thick.

168 Site clearance

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

169 Reuse of materials

1. **Timing:** Before any demolition of existing buildings or breaking out and removing from site any materials required for reuse i.e. bricks, tiles, blocks etc.
2. Submit to CA for approval photos and/or samples of any suitable hard paving, tiles, blocks or bricks, or even clay pipe etc that could be reused
3. If materials are deemed to be useable, carefully remove, clean and store on site ready for reuse
4. Only store amount required and dispose of any arisings as required

170 Removing small trees, shrubs, hedges and roots

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

175 Felling large trees

1. **Definition:** Girth over 600 mm.
2. **Identification:** Clearly mark trees to be removed.
3. **Safety:** Comply with HSE/ Arboricultural and Forest Industry Safety Accord safety leaflets.
4. **Felling:** As close to the ground as possible.
5. **Stumps:** Remove mechanically to a minimum depth of 300 mm below ground level
6. **Work near retained trees:** Take down trees carefully in small sections to avoid damage to adjacent trees that are to be retained, where tree canopies overlap and in confined spaces generally.
7. **Reuse of timber:** Timber for reuse must be agreed with the CA and landscape Architect prior to felling.
Before removing any trees greater than 600mm in girth, send CA and landscape architect photos of the tree to be felled for approval for the reuse of any suitable timber, for use in natural play areas and for potential use as sculpture - tree carving and seating as per Section Q50: 340

180 Chipping and shredding

1. **General:** Permitted, remove arisings from site to licenced facility offsite

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 Remove to an average depth of TBC in accordance with the Civil Engineers remediation and site works strategy - refer to Civil Engineer details.
 - 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 other materials, i.e. subsoils and/or as per the Civil Engineers remediation and site works strategy - refer to Civil Engineer details

221 Treating topsoil

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

225 Handling topsoil

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

240 Adjacent excavations

1. **Requirement:** Where an excavation encroaches below a line drawn at an angle from the nearest formation level of another higher excavation, the lower excavation, all work within it and backfilling thereto, must be completed before the higher excavation is made.
2. **Angle of line below horizontal:** 45°
3. **Backfill material:** Contractor to confirm to engineers detail and specification

250 Permissible deviations from formation levels

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

260 Inspecting formations

1. **Give notice:** Make advance arrangements for inspection of formations for foundations and filling formations, and pavings.
 - 1.1. **Notice (minimum):** 4 days
2. **Preparation:** Just before inspection remove the last 150 mm of excavation. Trim to required profiles and levels.
 - 2.1. **Loose material:** Minor compaction permitted
3. **Seal:** Within 4 hours of inspection, seal formations with blinding concrete.

267 Inspection of formations in shrinkable soils

1. **Inspect formation:** For signs of conducting and fine moisture absorbing roots.
2. **Give notice:** If significant quantities of roots are visible in the formation or in the bottom 75 mm of the walls of the excavation.

270 Foundations generally

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

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

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.

370 Underground structures in landscape areas

1. **Generally:** Remove walls, roads, foundations, disused services, drains, manholes and the like to minimum depth.
2. Minimum depth below finished levels
 - 2.1. Grass, ground cover and perennial planting: 500 mm
 - 2.2. Shrub planting: 750 mm.
 - 2.3. Within 2 m of tree planting: 1000 mm.
3. Walls and slabs remaining: In every 10 m² of wall or slab, make a drainage hole at least 600 mm diameter.

Disposal of materials

410 Excavated topsoil storage

1. Storage: Stockpile in temporary storage heaps in line with BS3882 recommendations, refer to Engineers Remediation Strategy and/or in agreement with CA .

415 Excavated topsoil removal

1. **General:** Excess excavated topsoil not required as part of the landscape works to be removed from site, refer to Engineers Remediation Strategy and/or in agreement with CA

420 Topsoil storage heaps

1. **Location:** refer to Engineers Remediation Strategy and/or in agreement with CA
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

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

441 Surplus subsoil

1. **Excavated material:** Stockpile in temporary storage heaps.
2. **Retained material:** Spread and level surplus subsoil on site.
 - 2.1. **Locations:** refer to Engineers Remediation Strategy and/or in agreement with CA
 - 2.2. **Protected areas:** Do not raise soil level within root spread of trees that are to be retained.
3. **Remaining material:** Remove from site.

450 Water

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

454 Ground water level, springs or running water

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

Filling

500 Proposed fill materials

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

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.

520 Frost susceptibility

1. **General:** Except as allowed below, fill must be non frost-susceptible as defined in the 'Specification for highway works', clause 801.8.

2. **Test reports:** If the following fill materials are proposed, submit a laboratory report confirming they are non frost- susceptible:
 - 2.1. Fine grained soil with a plasticity index less than 20%.
 - 2.2. Coarse grained soil or crushed granite with more than 10% retained on a 0.063 mm sieve.
 - 2.3. Crushed chalk.
 - 2.4. Crushed limestone fill with average saturation moisture content in excess of 3%.
 - 2.5. Burnt colliery shale.
3. **Frost-susceptible fill:** May only be used:
 - 3.1. At depths below the finished ground surface greater than: 450 mm
 - 3.2. Within the external walls of buildings below spaces that will be heated. Protect from frost during construction.
 - 3.3. Where frost heave will not affect structural elements.

530 Placing fill

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

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

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.

550 Geotextile sheet (general use) Type A

1. **Manufacturer:** Contractor's choice
 - 1.1. **Product reference:** Contractor's choice
2. **Type:** Nonwoven thermally spun-bonded permeable geotextile fabric
3. **Jointing:** 300 mm overlap
4. **Preparation of subgrade:** Before laying sheet, remove humps and sharp projections. Fill hollows
5. **Protect from**
 - 5.1. Exposure to light.
 - 5.2. Contaminants.
 - 5.3. Materials listed as potentially deleterious by geotextile manufacturer.

5.4. Wind uplift.

6. Pin and/or peg down if required- ensuring no pins or pegs are visible/removable from the surface

610 Compacted filling for landscape areas

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

615 Loose tip filling for landscape areas

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

617 Type 1 unbound mixture

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':** as per Civil Engineers recommendations - refer to Civil Engineer details
3. **Filling:** To 'Specification for highway works', clause 802.

618 Type 2 unbound mixture

1. **Fill:** To 'Specification for highway works', clauses 801 and 804:
 - 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.
 - 1.6. Natural gravel.
 - 1.7. Natural sand.
2. **Amendments to requirements in the 'Specification for highway works':** as per Civil Engineers recommendations - refer to Civil Engineer details
3. **Filling:** To 'Specification for highway works', clause 802.

619 Type 3 unbound mixture

1. **Fill:** To Highways Agency 'Specification for highway works', clause 805
2. A crushed and graded material, such as granite, whinstone, concrete that has been screened to create a open, reduced fines aggregate
3. Type 3 is a granular sub base material, fully certified according to the Department of Transport(DTp) Specification of Highway Works Clause 805 (SHW 805). Its correct name, as defined by the Specification of Highway Works, is 'DTp Type 3 granular sub base'. In order for a material to be classed as Type 3 granular sub base quality it must comply with Clause 805
4. Type 3 is a must for sub bases that require reduced fines material to be free draining for uses such as gravel paving, grass paving or resin bound paving
5. **Amendments to requirements in Highways Agency 'Specification for highway works'** as per Civil Engineers recommendations - refer to Civil Engineer details

620 Subgrade improvement layer (capping)

1. **Fill:** To 'Specification for highway works', Table 6/1, Class 6F1 or 6F2.
2. **oFilling:** Place and compact to MCHW Volume 1: 'Specification for highway works' (SHW), Table 6/1, clause 612 and clause 613.3, 613.9 and 613.10.

626 Compacted general fill

1. **Suitable material:** Make up shortfall in excavated material with imported material of a similar type
2. **Excavated material:** Select suitable material and keep separate.
3. **Filling:** Spread and level material in layers. As soon as possible thoroughly compact each layer.
4. **Required compaction:** as per Civil Engineers recommendations - refer to Civil Engineer details
5. **Proposals:** Well in advance of starting work submit details of proposed:
 - 5.1. Materials to be used, including quantities of each type.
 - 5.2. Type of plant.
 - 5.3. Maximum depth of each compacted layer.
 - 5.4. Minimum number of passes per layer.

640 Starter layer of compacted filling

1. **Fill:** Suitable hard granular material. Compact thoroughly.
2. **Thickness:** as per Civil Engineers recommendations - refer to Civil Engineer details

650 Protection of compacted filling

1. **Temporary protective filling:** Before allowing construction traffic, raise level of compacted cohesive soil filling at least 150 mm above formation level using properly compacted temporary filling.
2. **Removal:** Remove temporary protective filling from site before permanent construction.

700 Backfilling around foundations

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.

710 Hardcore filling

1. **Fill:** Granular material, free from excessive dust, well graded, all pieces less than 75 mm in any direction:
 - 1.1. **Test requirements**
 - 1.1.1. Minimum 10% fines value tested in a soaked condition to BS 812-111 Not required.
 - 1.1.2. Impact value SZ tested to BS EN 1097-2 Not required.
2. **Material**
 - 2.1. **Permitted materials in any one layer**
 - 2.1.1. Crushed rock (other than argillaceous rock) or quarry waste with not more binding material than is required to help hold the stone together.
 - 2.1.2. Crushed concrete, crushed brick or tile, free from plaster, timber and metal.
 - 2.1.3. Crushed non-expansive slag.
 - 2.1.4. Gravel or hoggin with not more clay content than is required to bind the material together, and with no large lumps of clay.
 - 2.1.5. Well-burned non-plastic colliery shale.
 - 2.1.6. Natural gravel.
 - 2.1.7. Natural sand.

3. Filling: Spread and level in 150 mm maximum layers. Thoroughly compact each layer.

730 Blinding

1. Surfaces to receive sheet overlays or concrete:
2. Blind with
 - 2.1. Concrete where shown on drawings; or
3. Sand, fine gravel, or other approved fine material applied to fill interstices. Moisten as necessary before final rolling to provide a flat, closed, smooth surface.
4. Sand for blinding: To BS EN 12620, grade 0/4 or 0/2 (MP).
5. Permissible deviations on surface level: +0 -25 mm

Bioremediation - Not Used

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

Ω End of Section

L37

External stair, ramps, handrail and balustrades systems

Summary

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General

150 Handrail systems

1. Description: TO STAIRS
2. System manufacturer: Delta Balustrades
3. Contact details
 - 3.1. Address: Delta Balustrades Ltd Delta House, Millbuck Way, Sandbach, Cheshire. CW11 3JA
 - 3.2. Telephone: 01270 753 383
 - 3.3. Web: <https://deltabalustrades.com/orbis-os250/>
 - 3.4. Email: enquiries@deltabalustrades.com
 - 3.5. Manufacturer contact name: Delta Balustrades Ltd
4. Product reference: ORBIS OS251 TUBULAR POST & RAIL NO INFILL SYSTEM TOP FIX
5. Material: Stainless steel
 - 5.1. Cross section: As per drawing BCA-ATK-XX-XX-DR-LA-423081 - TYPICAL LANDSCAPE DETAILS SHEET 12 OF 12, details are to be confirmed with the project engineer/ architect.
 - 5.2. Finish: Polyester powder-coated grey colour, subject to approval. Application as per manufacturer recommendations.
6. Height (to upper surface of handrail)
 - 6.1. Above pitch line: 50 series Sigma™ stainless steel handrail. 16mm stalk connection to baluster (BB6). Top of handrail to be 1100mm above FFL on landings and 900mm above stair pitch line.
 - 6.2. Second handrail: Second handrail should be 650 mm from the pitch line to upper surface of rail.

System performance - Not Used

Products

420 Applied stair nosings

1. Description: GRP anti slip stair nosing
2. Standard: In accordance with BS 8300-1
3. Material: GRP (Glass Reinforced Plastic)
4. Size - outer dimensions (rise x going): 55 x 55 mm
5. Profile: As per construction drawings
6. Slip resistance value - water wet (minimum): Confirm suitability for external environment, subject to CA approval
7. Colour
 - 7.1. Channel/ Frame: Not applicable
 - 7.2. Inserts: Black
8. Accessories: Colour matched insert capping plugs.
Edge sealant as manufacturer's recommendations.
Predrilled inserts

Fabrication

510 Fabrication generally

1. Design: Complete the detailed design and obtain approval prior to commencing fabrication.
2. Shop drawings: Submit.

3. **Structural calculations:** Submit.
4. **Frameworks:** Assemble and brace, including temporary members required for installation.
5. **Contact between dissimilar metals:** Avoid.
6. **Fixings:** Fully bolt together. Tighten bolts.
7. **Temporary support:** Do not subject members to non-design loadings.

Execution

610 Loading

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

650 Installation generally

1. **Structural members:** Do not modify, cut, notch or make holes in structural members, except as indicated on drawings.
2. **Temporary support:** Do not use finished work as temporary support or strutting for other work.
3. **Applied finishes:** Substrates to be even, dry, sound and free from contaminants. Make good substrate surfaces and prepare/ prime as finish manufacturer's recommendation before application.

662 Adverse weather

1. **General:** Do not use frozen materials and do not lay on frozen surfaces.
2. **Working limits:** Do not lay blocks/ dressings:
 - 2.1. **Cement gauged mortars:** When the air temperature is at or below 3°C and falling or below 1°C and rising (unless mortar has a temperature of not less than 4°C when laid and work is thoroughly protected).
 - 2.2. **Hydraulic lime:sand mortars:** When the air temperature is at or below 5°C and falling or below 3°C and rising.
3. **Temperature of the work:** Maintain above freezing until mortar has fully set.
4. **Newly erected work:** Protect from precipitation; Prevent rapid drying in hot conditions.
5. **Remedial work:** Rake out and replace mortar damaged by frost.
 - 5.1. **Damaged work:** Rebuild.

670 Installation of tread inserts/ nosings

1. **Treads:** Fully cured, sound and level.
2. **Fixing**
 - 2.1. **Location/ position:** In accordance with BS 8300-1
 - 2.2. **Fixings:** As manufacturer's recommendations
 - 2.2.1. **Centres:** As manufacturer's recommendations

Completion

915 Slip resistance testing

1. **Surfaces to be tested:** Stair nosings.
 - 1.1. **Surface condition:** Dry and wet
2. **Timing:** Post final clean, prior to handover
3. **Period of notice (minimum):** 3 working days.
4. **Test standard:** To BS 7976-2

- 4.1. **Testing authority:** A UKAS accredited laboratory
- 4.2. **Witnessing/ Certification:** Arrange for tests to be witnessed/ certified by: Contract administrator.
- 4.3. **Report:** Submit.
 - 4.3.1. **Format:** As required under BS 7976-2

920 Documentation

- 1. **Contents**
 - 1.1. Copies of structural design calculations/ test reports.
- 2. **General product information.**
 - 2.1. Installation information.
 - 2.2. Inspection and maintenance reports.
- 3. **Number of copies:** 3
- 4. **Submission:** Two weeks prior to date when principal contractor expects work to be practically complete

Ω End of Section

Q20

Granular sub-bases to roads/ pavings

Summary

Revision history

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To be read with preliminaries/ general conditions.

20 Herbicides

1. Type: Translocated, non-residual, non-selective
2. Application: To subgrade of footpaths, play areas and sports surfaces.

30 Excavation of subgrades

1. Final excavation to formation/ subformation level: Carry out immediately before compaction of subgrade.
2. Soft spots and voids: Give notice.
3. Old drainage and service trenches: Give Notice.
Excavate to remove soft or degraded material, then backfill with specified granular sub-base material and compact.
4. Wet conditions: Do not excavate or compact when the subgrade may be damaged or destabilized.

35 Preparation and compaction of subgrades

1. Timing: Immediately before placing sub-base.
2. Soft or damaged areas: Obtain instructions
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.

40 Granular material

1. Quality: Of a known suitability for use in sub-bases, free from excessive dust, well graded, all pieces less than 75 mm in any direction, minimum 10% fines value of 50kN when tested in a soaked condition to BS 812-111 or a resistance to fragmentation of LA50 for the Los Angeles test to BS EN 1097-2, and in any one layer only one of the following:
 - 1.1. Crushed rock (other than argillaceous rock) or quarry waste with not more binding material than is required to help hold the stone together.
 - 1.2. Crushed concrete, crushed brick or tile, free from plaster, timber and metal.
 - 1.3. Gravel or hoggin with not more clay content than is required to bind the material together, and with no large lumps of clay.
 - 1.4. Natural gravel.
 - 1.5. Natural sand.
2. Filling: Spread and levelled in 150 mm maximum layers, each layer thoroughly compacted.

43 Placing granular material generally

1. Preparation: Loose soil, rubbish and standing water removed.
2. Structures, membranes and buried services: Ensure stability and avoid damage.

45 Laying granular sub-bases

1. General: Spread and levelled.
2. Compaction
 - 2.1. Timing: As soon as possible after laying.
 - 2.2. 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.

50 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: ± 20 mm.
 - 1.2. Sub-bases
 - 1.2.1. Footways and recreation areas: ± 12 mm

70 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

Q25 Slab/ brick/ sett/ cobble pavings

Summary

Revision history

Date	No.	Title	Status	Revision	Note
30/06/2023	2.0	BCA Landscape	For Information	Steps and handrail added	
26/07/2023	DRAFT	BCA Landscape			
03/08/2023		BCA Landscape	STAGE 4 ISSUE		
06/01/2025		DRAFT for internal check and review			
06/01/2025		DRAFT for internal check and review			
19/08/2025	P04	BCA Landscape	For Construction	P04	
19/08/2025		BCA Landscape	For Construction	P05	Specification updated with Revision
20/08/2025	BCA-ATK-XX-SP-LA-423001	BCA Landscape	P06		
20/08/2025	BCA-ATK-XX-SP-LA-423001	BCA Landscape	P06	FOR CONSTRUCTION	

General

127 Pedestal supported paving slab/ flag system

1. **Description:** Roof Garden Paving
2. **Preparation of existing base:** Waterproof membrane layer and podium deck, details and specifications as confirmed with the project engineer and/or architect.
3. **Paving support:** Threaded core pedestals, details and specifications as confirmed with the project engineer and/or architect
4. **Paving units:** Textured Slabs (Tobermore or similar confirmed)
5. **Size:** 600 x 400 mm
6. **Finish:** Textured (granular)
7. **Colour:** Natural
8. **Accessories:** Edging and lug fixings are to be confirmed by the project engineer and/or architect per manufacturer recommendations.

System performance - Not Used

Products

320 Tactile flags and slabs Type A

1. **Description:** To steps
2. Refer to engineers drawings and specification for construction
3. Installed to manufacturer's recommendations
4. **Standard:** To DD CEN/TS 15209.
5. **Material:** Precast concrete
 - 5.1. **Manufacturer:** Marshalls Plc
 - 5.1.1. **Contact:** Landscape House
Lowfields Business Park
Elland
West Yorkshire
HX5 9HT

Tel: +44 (0)330 0574472
Web: www.marshalls.co.uk
 - 5.1.2. **Product reference:** Hazard warning paving, standard, 50mm thick, 400x400mm, Buff: FL6181050 or equivalent approved subject to comment
6. **Nominal sizes:** 50mm thick, 400x400mm
7. **Colour:** Buff
8. **Type of surface:** Corduroy (rib)

320 Tactile flags and slabs Type B

1. **Description:** To crossing points
2. Refer to engineers drawings and specification for construction
3. Installed to manufacturer's recommendations
4. **Standard:** To DD CEN/TS 15209.
5. **Material:** Precast concrete
 - 5.1. **Manufacturer:** Marshalls Plc

- 5.1.1. **Contact:** Landscape House
Lowfields Business Park
Elland
West Yorkshire
HX5 9HT

Tel: +44 (0)330 0574472
Web: www.marshalls.co.uk

- 5.1.2. **Product reference:** Hazard warning paving, standard, 50mm thick, 400x400mm, Buff:
FL6181050 or equivalent approved subject to comment

6. **Nominal sizes:** 50mm thick, 400x400mm
7. **Colour:** Buff
8. **Type of surface:** Blister – type B1

335 Concrete setts Type A

1. **Description:** Pedestrian Permeable Block Paving
2. **Manufacturer:** Tobemore
2 Lisnamuck Road
Tobermore
BT45 5QF
Tel: 0345 608 1250
email: ChooseTobermore@tobermore.co.uk
2.1. **Product reference:** Tegula 60mm
3. **Colour:** Charcoal, Slate, & Natural mix
4. **Finish:** tumbled
5. **Sizes:** 208x173x60
6. **Slip/ Skid resistance:** Extremely Low (PTV to BS 7976-2 of 40)
7. **Integral accessories:** None

335 Concrete setts Type B

1. **Description:** Vehicular Permeable Block Paving
2. **Manufacturer:** Tobemore
2 Lisnamuck Road
Tobermore
BT45 5QF
Tel: 0345 608 1250
email: ChooseTobermore@tobermore.co.uk
2.1. **Product reference:** Tegula 80mm
3. **Colour:** Charcoal
4. **Finish:** Tumbled
5. **Sizes:** 208x173x80
6. **Slip/ Skid resistance:** Extremely Low (PTV to BS 7976-2 of 40)
7. **Integral accessories:** None

Execution

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: ± 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.

637 Regularity of paved surfaces

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

640 Colour banding

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

645 Protection

1. **Cleanliness:** Keep paving clean and free from mortar droppings, oil and other materials likely to cause staining.
2. **Materials storage:** Do not overload pavings with stacks of materials.
3. **Handling:** Do not damage paving unit corners, arrises, or previously laid paving.
4. **Mortar bedded pavings:** Keep free from traffic after laying:
 - 4.1. **Pedestrian traffic (minimum):** 4 days
 - 4.2. **Vehicular traffic (minimum):** 10 days
5. **Access:** Restrict access to paved areas to prevent damage from site traffic and plant.

650 Cementitious bases and sub-bases

1. **General:** Protect from moisture loss, if not covered by another pavement course within 2 hours of completion.

655 Condition of sub-bases/ bases before spreading laying course

1. **Trenches and excavation of soft or loose spots in subgrade:** Fill and thoroughly compact.
2. **Granular surfaces:** Lay and compact so as to be sound, clean, smooth and close-textured enough to prevent migration of bedding/ laying course materials into the sub-base during compaction and use, free from movement under compaction plant and free from compaction ridges, cracks and loose material.
3. **Prepared existing and new bound bases (roadbases):** Sound, clean, free from rutting or major cracking. Remove sharp stones, projections and debris.
4. **Sub-base/ Roadbase level tolerances:** To BS 7533-7, Annex A.
5. **Levels and falls:** Accurate and within the specified tolerances.
6. **Drainage outlets:** Within 0-10 mm of the required finished level.
7. **Features in unbound paving (including mortar bedded restraints and drainage ironwork):** Complete to required levels; adequately bed and haunch in mortar.
8. **Sub-bases containing cement/ hydraulic binder:** Cure for minimum times specified in BS 7533-4.

695 Site mixed mortar

1. **Description:** As required
2. **Mix:** 1:3 cement:sand
3. **Consistency:** Workable
4. **Admixtures:** None

700 Site mixed fine concrete

1. **Description:** Lay course as required
2. **Standard:** In accordance with BS 7533-7.

Completion

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

1. **Sand dressing:** As required
2. **Final compaction of the surface course:** In accordance with BS 7533-3.
3. **Vacuum cleaning machines:** Not allowed.

930 Slip resistance testing

1. Surfaces to be tested: Steps and paving
 - 1.1. Surface condition: Dry and wet
2. Timing: Post final clean, prior to handover
3. Period of notice (minimum): 3 working days.
4. Test standard: To BS 7976-2
 - 4.1. Testing authority: A UKAS accredited laboratory
 - 4.2. Witnessing/ Certification: Arrange for tests to be witnessed/ certified by: Contract administrator.
 - 4.3. Report: Submit.
 - 4.3.1. Format: As required under BS 7976

Ω End of Section

Q26

Special surfacings/ pavings for sport/ general amenity

Summary

Revision history

Date	No.	Title	Status	Revision	Note
14/06/2023	REV A	BCA Landscape	DRAFT FOR REVIEW		
14/06/2023	REV 0.1	BCA Landscape	DRAFT FOR REVIEW		
14/06/2023	0.1	BCA Landscape	DRAFT FOR REVIEW		
15/06/2023	1.0	BCA Landscape	For Information		
30/06/2023	2.0	BCA Landscape	For Information	Steps and handrail added	
26/07/2023	DRAFT	BCA Landscape			
03/08/2023		BCA Landscape	STAGE 4 ISSUE		
06/01/2025		DRAFT for internal check and review			
06/01/2025		DRAFT for internal check and review			
19/08/2025	P04	BCA Landscape	For Construction	P04	
19/08/2025		BCA Landscape	For Construction	P05	Specification updated with Revision
20/08/2025	BCA-ATK-XX-SP-LA-423001	BCA Landscape	P06		
20/08/2025	BCA-ATK-XX-SP-LA-423001	BCA Landscape	P06	FOR CONSTRUCTION	

Sports surfacing

120 Re-surfacing for 3G MUGA

1. Design: Specialist design to be agreed by CA
2. Description: MULTISPORT AREA
3. Type: Submit proposals
4. Priority of activities: TBC confirmed by end user, agree with CA
5. Standard of play: Recreational
6. Minimum life expectancy: 20 years
7. Refer to Civil Engineers information for details and information for detailed specification for drainage and porous sub-base and macadam build up. The surfaces of any hard outdoor PE area provided shall be designed in accordance with Sport England 'Artificial Surfaces for Outdoor Sport'. Open textured porous macadam base. To conform to Sport England guidance note: 'Artificial Surfaces for Outdoor Sport'.
Courts shall be defined with line markings in accordance with DCM installation recommendations
Line markings - allow for appropriate markings, margins and run-off for the layout, as required to delineate applicable sports and/or in accordance with applicable standards and installer recommendations (submit proposals)
MUGA sports line installer to advise and confirmation from the Client/End user should be sought re. specific colours for each sport. As a rule of thumb, the most frequently used sport should be marked out in white, the second most played sport in yellow, followed by blue, and red.
Line width as per recommended standards - submit proposals
Allow for any sockets or fixings for tennis nets as advised and/or required to play the intended sports in accordance with applicable standards - see markings on salient drawings - sports required are short tennis, basketball and football. Submit proposals for approval before commencing surfacing works.

140 Surface gradients, evenness and flatness

1. Surface regularity: As specified by BS 7044-4.
2. Deviation from the finished plane: When checked on a 10 m grid the difference in level between adjacent grid points, after taking design gradients into account, must not exceed ± 25 mm.
3. Profile: Crossfall in a single plane
4. Gradients: Level in direction of play with a crossfall of 1:200

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

300 Extent of impact attenuating surfacing

1. General: Lay to the impact areas shown in the relevant parts of BS EN 1176.

301 Extent of impact attenuating surfacing

1. General: Lay impact attenuating surfacing as indicated on drawings.

310 Bark surfacing (play surface)

1. Granular sub-base: Contractor choice for confirmation. Consult manufacturer/ supplier of the impact attenuating surfacing for type and thickness.

- 1.1. **Thickness:** Consult manufacturer/ supplier of the impact attenuating surfacing for thickness, confirmation required.
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:** Spruce bark.
 - 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):** 400 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.

315 Decorative Pea Gravel

1. 75mm deep layer of 8-10mm decorative pea gravel, source of local origin. Washed. Colour to compliment gabion stone.

360 In situ synthetic surfacing (Safety surface)

1. **Sub-base:** Submit proposals (150mm type 1 sub-base - well compacted, as recommended by the surfacing provider and/or engineers)
2. **Base:** Submit proposals (Min 100mm well compacted MOT type 1 dynamic (crushed stone) dependent on ground conditions, as recommended by the surfacing provider and/or engineers)
3. **Surface course:** Wet pour, in situ laid polyurethane bound EPDM rubber crumb surface.
 - 3.1. **Standard:** To BS 7188.
 - 3.2. **Manufacturer:** Surfaces, Wigan Road, Leyland PR25 5XW
01772 440340
Email info@dcmsurfaces.com
 - 3.2.1. **Product reference:** Wet pour, in situ laid polyurethane bound EPDM rubber crumb surface screed level in various colours
 - 3.3. **Colour:** To be agreed with CA
 - 3.4. **Critical fall height when tested to BS EN 1177:** Any new or relocated play equipment shall be on surfacing which is suitable for the equipment being used and which provides a safe environment for pupils which adheres to BS EN1176 'Playground equipment and surfacing General safety requirements and test methods' and 'BS EN1177 Impact attenuating playground surfacing. Determination of critical fall height'. Fall height presumed to be 0-0.6m confirm with CA and project landscape architect. Surfacing to be durable, soft and allow accessible access. Advise end user of acceptable critical fall height of future equipment based on depth of rubber mulch installation.
 - 3.5. **Health and safety**
 - 3.5.1. **Substance known to be toxic or carcinogenic on skin contact or released as vapour or dust during normal use:** Not permitted.

4. Submit
 - 4.1. Resistance to abrasive wear, slip resistance, resistance to indentation and ease of ignition: Evidence of testing to BS 7188.
 - 4.2. Critical fall height: Evidence of testing to BS EN 1177.

Associated accessories

430 Edges

1. **Finish:** Flush to surfacing in accordance with manufacturer's recommendations. Ensure that surface of installation is flush with surrounding surfaces, edges, kerbs, channels and the like, to avoid hazards to players
2. **Edge detail:** Metal edge pre-cast concrete pin kerb edging and/or specialist drainage channels as recommended by the surfacing provider and/or Cambria Consulting.

Execution

710 PROVISIONAL Synthetic sports turf installation

1. Provisional item to be confirmed by contractor if required for MUGA resurfacing.
2. **Installation:** Lay in continuous lengths across the width of the pitch with no cross joints.
3. **Joints**
 - 3.1. Level differences (maximum): 2 mm.
 - 3.2. Separation at joints and seams (maximum): 2 mm.
4. **Uniformity:** No seams or textural variations which might cause a ball to be deflected from its true path.

Completion

910 Sports surface testing

1. **Standard:** To BS EN 15330-1
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:** 5 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.

940 Labelling

1. Signs: Provide permanent labelling in approved locations on all types of surfacing stating: Manufacturer's name and contact details and Date of installation.

Ω End of Section

Q28 Topsoil and soil ameliorants

Summary

Revision history

Date	No.	Title	Status	Revision	Note
14/06/2023	REV A	BCA Landscape	DRAFT FOR REVIEW		
14/06/2023	REV 0.1	BCA Landscape	DRAFT FOR REVIEW		
14/06/2023	0.1	BCA Landscape	DRAFT FOR REVIEW		
15/06/2023	1.0	BCA Landscape	For Information		
30/06/2023	2.0	BCA Landscape	For Information	Steps and handrail added	
26/07/2023	DRAFT	BCA Landscape			
03/08/2023		BCA Landscape	STAGE 4 ISSUE		
06/01/2025		DRAFT for internal check and review			
06/01/2025		DRAFT for internal check and review			
19/08/2025	P04	BCA Landscape	For Construction	P04	
19/08/2025		BCA Landscape	For Construction	P05	Specification updated with Revision
20/08/2025	BCA-ATK-XX-SP-LA-423001	BCA Landscape	P06		
20/08/2025	BCA-ATK-XX-SP-LA-423001	BCA Landscape	P06	FOR CONSTRUCTION	

To be read with preliminaries/ general conditions.

10 Preparation of undisturbed topsoil

1. **Standard:** In accordance with BS 4428.
 - 1.1. **Grading and cultivation:** Category A
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 a thick sward:** Plough or dig over to full depth of topsoil.
5. **Fallow period (minimum):** One month
 - 5.1. **Weed control:** At appropriate times treat with a suitable translocated nonresidual herbicide.

20 Imported topsoil to BS 3882

1. **Description:** FOR LANDSCAPE WORKS TO MAKE UP DEFICIT OF SITE WON TOPSOIL AS REQUIRED
2. **Quantity:** Provide as necessary to make up any deficiency 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 clay loam
5. **Source:** Contractor's choice
 - 5.1. **Product reference:** Natural topsoil, single source to BS 3882, or otherwise approved

21 Imported topsoil from a specified source (rain gardens)

1. **Description:** For planting beds and tree pits within in rain gardens
2. **Quantity:** As per manufacturers recommendations and with approval of project landscape architect.
3. **Soil textural class:** As manufactured
4. **Source:** Green Tech
 - 4.1. **Product reference:** Bioretention Soil: 190GT3553-PRO or equal approved

22 Subsoil for species rich grass/ wildflower areas

1. **Standard:** in accordance with BS8601 and BS3882
2. **Source:** existing subsoil sourced from site
3. **Layers:**
 - 3.1. **Depth (maximum):** 150 mm
 - 3.2. Gently firm each layer before spreading the next.
 - 3.3. **Crumb structure:** Do not compact subsoil. Preserve a friable texture of separate visible crumbs wherever possible.
4. Contractor to verify suitability of soil surface with species rich/ wildflower seed manufacturer before sowing.
5. The Contractor shall ensure all soil is appropriate for the intended use (e.g. to seed, plant, and establish vegetation) and that the handling, storage and use of topsoil and subsoils on site is monitored during the works, to ensure the health of the soil and suitability for use.
6. **Testing:** in accordance with BS8601, certification to be made available to the CA on request

25 Sanitized and stabilized composted materials certified to pas 100

1. **Standard:** In accordance with PAS 100 and Compost Quality Protocol

2. Source: Contractor's choice
 - 2.1. Product reference: Contractor's choice
3. Horticultural parameters
 - 3.1. pH (1:5 water extract): 6.5-8.7
 - 3.2. Electrical conductivity (maximum, 1:5 water extract): 300 mS/m
 - 3.3. Moisture content (m/m of fresh weight): 35-55%.
 - 3.4. Organic matter (minimum): 30%
 - 3.5. Grading (air dried samples): 99% passing 25 mm and 90% passing 10 mm screen mesh apertures
 - 3.6. Carbon: Nitrogen ratio (maximum): 20:1.
4. Texture: Friable.
5. Objectionable odour: Not permitted.
6. Quality Compost Protocol certification: Required
7. Declaration of analysis: Submit.
8. Additional analyses: Not required
9. Samples: Submit details of recent chemical and physical analysis before ordering

30 Spreading topsoil

1. Standard: In accordance with BS 3882.
2. Temporary roads or surfacing: Remove before spreading topsoil.
3. Layers
 - 3.1. Depth (maximum): 150 mm.
 - 3.2. Gently firm each layer before spreading the next.
4. Depth after firming and settlement: Grass areas: 100 mm.
Planted areas: 400 mm.
5. Crumb structure: Do not compact topsoil. Preserve a friable texture of separate visible crumbs wherever possible.

40 Finished levels of topsoil after settlement

1. In relation to adjoining paving, kerbs or hard surfaces: Flush
2. In relation to dpc of adjoining buildings: Not less than 150 mm below.
3. In relation to adjacent grass areas: 25 mm below
4. Seeded areas: Extend cultivation into existing adjacent grassed areas sufficient to ensure full marrying in of levels.
5. Sportsfields: To even levels and within the following permitted deviations:
 - 5.1. From levels or gradients shown on drawings: ± 75 mm.
 - 5.2. From line between boning rods 30 m apart: ± 25 mm.
6. Within root spread of existing trees and shrubs to be retained: Do not dig or cultivate.
7. Adjoining soil areas. Marry in.
8. Thickness of turf or mulch: Included.

45 Documentation

1. Description: FOR IMPORTED TOPSOIL FOR LANDSCAPE AREAS (PLANTED OR SEEDED)
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: Three

47 Documentation for compost and composted materials

1. Description: FOR IMPORTED COMPOST FOR LANDSCAPE AREAS (PLANTED OR SEEDED)
2. Timing: Submit at handover.
3. Contents
 - 3.1. Full description of all compost components.
 - 3.2. Record of source for all compost components.
 - 3.3. Analyst's report for each test carried out.
 - 3.4. Declaration of compliance: in accordance with PAS 100 and BSI PD CR 13456.
 - 3.5. Quality Compost Protocol certification: Required
4. Number of copies: Three

155 Slate mulch (for Rain gardens)

1. Description: FOR RAIN GARDENS
2. Product: Blue Slate (Welsh Blue Slate) Chippings 20mm
3. Depth: 50mm
4. Purpose: Natural material capable of supporting growth of plants specified for raingardens and to suppress weeds. Material to be free of dust and fines which may block SuDS filters and network.
5. Supplier:
Decorative Aggregates
Arbor Low Works
Youlgrave
Bakewell
Derbyshire
DE45 1JS
Tel: 01629 630256

310 Materials not permitted

1. Materials containing peat

620 Importing topsoil

1. Give notice: Before stripping topsoil for transfer to site (notice period: 14 days)

685 Surplus materials to be removed

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

700 Grading of topsoil

1. Topsoil condition: Reasonably dry and workable.
2. Contours: Smooth and flowing, with falls for adequate drainage.
3. Hollows and ridges: Not permitted.
4. 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

710 Spreading topsoil on all rain garden areas

1. Standard: In accordance with BS 3882
2. Excavate and remove existing sub-soil and replace with Green Tech topsoil
3. Temporary roads/ surfacing: Remove before spreading topsoil
4. Layers: Spread full quantity of manufactured topsoil and gently firm
5. Timing: Spread a minimum of two weeks before planting.
6. Structure: Do not compact manufactured topsoil with machinery. Preserve a friable texture of separate visible crumbs wherever possible

715 Loose tipping of topsoil

1. Standard: In accordance with BS3882
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 all planting beds
2. Compacted topsoil: Break up to full depth.
3. Tilth: Loosen, aerate and break up topsoil to a tilth suitable for blade grading.
4. Particle size (maximum): 10 mm
5. Timing: Within a few days before planting
6. Weather and ground conditions: Suitably dry.
7. Surface: Leave regular and even.
8. Levels: 25 mm above adjoining paving or kerbs
9. Undesirable material brought to the surface: Remove visible weeds. Remove roots and large stones with an dimension exceeding 50mm

720 Finished levels of topsoil after settlement

1. In relation to adjoining paving, kerbs or hard surfaces: 25 mm below
2. Seeded areas: Extend cultivation into existing adjacent grassed areas sufficient to ensure full marrying in of levels.
3. Sportsfields: To even levels and within the following permitted deviations:
 - 3.1. From levels or gradients shown on drawings: ± 75 mm.
 - 3.2. From line between boning rods 30 m apart: ± 25 mm.
4. Within root spread of existing trees and shrubs to be retained: Do not dig or cultivate.
5. Adjoining soil areas: Marry in

6. Thickness of turf or mulch: Included

Ω End of Section

Q30 Seeding/ turfing

Summary

Revision history

Date	No.	Title	Status	Revision	Note
14/06/2023	REV A	BCA Landscape	DRAFT FOR REVIEW		
14/06/2023	REV 0.1	BCA Landscape	DRAFT FOR REVIEW		
14/06/2023	0.1	BCA Landscape	DRAFT FOR REVIEW		
15/06/2023	1.0	BCA Landscape	For Information		
30/06/2023	2.0	BCA Landscape	For Information	Steps and handrail added	
26/07/2023	DRAFT	BCA Landscape			
03/08/2023		BCA Landscape	STAGE 4 ISSUE		
06/01/2025		DRAFT for internal check and review			
06/01/2025		DRAFT for internal check and review			
19/08/2025	P04	BCA Landscape	For Construction	P04	
19/08/2025		BCA Landscape	For Construction	P05	Specification updated with Revision
20/08/2025	BCA-ATK-XX-SP-LA-423001	BCA Landscape	P06		
20/08/2025	BCA-ATK-XX-SP-LA-423001	BCA Landscape	P06	FOR CONSTRUCTION	

General information/requirements

115 Seeded and turfed areas

1. **Description:** All seeded and turfed areas including grass areas damaged during the works requiring reinstatement.
2. **Growth and development:** Healthy, vigorous grass sward, free from the visible effects of pests, weeds and disease.
3. **Appearance:** A closely knit, continuous ground cover of even density, height and colour.

120 Climatic conditions

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

145 Watering

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

150 Water restrictions

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

160 Notice

1. Give notice before
 - 1.1. Setting out.
 - 1.2. Applying herbicide.
 - 1.3. Applying fertilizer.
 - 1.4. Preparing seed bed.
 - 1.5. Seeding or turfing.
 - 1.6. Visiting site during maintenance period.
2. Period of notice: 1 week

170 Setting out

1. **Boundaries:** Mark clearly.
2. **Delineation:** In straight lines or smoothly flowing curves as shown on drawings.
3. **Planting Schedule:** BCA-ATK-XX-XX-SH-LA-423001 - PLANTING SCHEDULE SHEET 1 OF 2
BCA-ATK-XX-XX-SH-LA-423002 - PLANTING SCHEDULE SHEET 2 OF 2

Preparation

210 Herbicide

1. **Description:** For all areas to be planted, turfed or seeded
2. **Type:** Suitable translocated, non residual herbicide for suppressing perennial weeds.
3. **Timing:** Allow fallow period before cultivation.
 - 3.1. **Duration:** As manufacturer's recommendation

212 Seed bed cleaning before sowing

1. **Description:** ALL GRASSED AREAS & WILDFLOWER MEADOWS
2. **Operations:** As seed supplier's recommendations.

250 Soil requirements amenity grass and sports pitch

1. **Type**
 - 1.1. **Seeded areas:** A phased-release organic fertiliser that provides a consistent release of nitrogen and potash over five months - contractors choice
 - 1.2. **Turfed areas:** Existing topsoil
2. Fertiliser not to be used in wildflower seeded areas

280 Final cultivation

1. **Timing:** After grading and fertilising
2. **Seed bed:** Reduce to fine tilth with good crumb structure
 - 2.1. **Depth:** 50mm
 - 2.2. **Surface preparation:** Rake to a true, even surface, friable and lightly firmed but not over compacted
 - 2.3. **Remove:** surface stones/earth clods exceeding 20 mm
3. Extend cultivation into existing adjacent grassed areas sufficient to ensure full marrying in of levels

Seeding

311 Grass seed Type A - Amenity grass mix

1. **Description:** FOR ALL GRASSED AREAS
2. **Supplier:** Germinal Amenity
Web: germinalamenity.com
Tel: 01522 868714
 - 2.1. **Mixture reference:** A22 Low Maintenance
3. **Application rate:** 50 g/m² (500 kg/ha)
4. **Sowing Time:** March - October
5. **Overseeding Rate:** 20 g/m² (200 kg/ha)

311 Grass seed Type B - Sports grass mix

1. **Description:** FOR SPORTS FIELDS
2. **Supplier:** Germinal Amenity
Web: germinalamenity.com
Tel: 01522 868714
 - 2.1. **Mixture reference:** A9 General Outfield
3. **Application rate:** 35 g/m² (350 kg/ha)
4. **Sowing Time:** March - October
5. **Overseeding Rate:** 20 g/m² (200 kg/ha)

311 Grass seed Type C - SUDS Detention

1. **Description:** FOR SUDS AREAS
2. **Supplier:** Germinal Amenity
Web: germinalamenity.com
Tel: 01522 868714

- 2.1. Mixture reference: WFG9 Wetland and Pond Areas
3. Application rate: 5 g/m²
4. Sowing Time: March - October

311 Grass seed Type D - SUDS Swale

1. Description: FOR SUDS SWALE
2. Supplier: Germinal Amenity
Web: germinalamenity.com
Tel: 01522 868714
- 2.1. Mixture reference: A4 Low Maintenance Areas
3. Application rate: 35 g/m² (350 kg/ha)
4. Sowing Time: March - October
5. Overseeding Rate: 20 g/m² (200 kg/ha)

312 Wildflower seed Mix 1 - Wildflower species rich mix to SUDS Scrapes/ Former compound area

1. Description: Mix 1 - Wildflower Mix to SUDS Scrapes/ former compound area
2. Supplier: Germinal Amenity
Web: germinalamenity.com
Tel: 01522 868714
- 2.1. Mixture reference: WFG15 Countrylife, Schools & Colleges
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: 5 g/m²
5. Sowing Time: March - October

312 Wildflower species rich seed Mix 2 - Orchard area

1. Description: Mix 2 - Orchard area
2. Supplier: Germinal Amenity
Web: germinalamenity.com
Tel: 01522 868714
- 2.1. Mixture reference: WF19 Pollinators Paradise
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: 1-2 g/m²
5. Sowing time: March - October

319 Quality of grass seed

1. Description: FOR ALL GRASSED AREAS & FOR SPORTS FIELDS
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.

320 Quality of grass seed

1. Description: FOR ALL GRASSED AREAS

2. **Freshness:** Produced for the current growing season.
3. **Certification:** Blue label certified varieties.
 - 3.1. **Standard:** EC purity and germination regulations and Department for Environment, Food and Rural Affairs Higher Voluntary Standard.
 - 3.2. **Official Seed Testing Station certificate of germination, purity and composition:** Submit when requested.
4. **Samples of mixtures:** Submit when requested.

322 Quality of wildflower seed

1. **Description:** FOR WILDFLOWER MEADOWS
2. **Standard:** In accordance with Flora Locale's 'Code of practice for collectors, growers and suppliers of native flora'.
3. **Germination testing:** Not required
4. **Freshness of seed:** Produced for the current growing season
5. **Samples:** Submit when requested.

330 Sowing Grass and wildflower seed

1. **General:** Establish good seed contact with the root zone.
2. **Method:** Create a fine friable seedbed down to 150 mm in depth. Broadcast manually or use seed drill, rake level and roll. Ensure good seed to soil contact.
 - 2.1. **Sowing depth:** 10 mm
 - 2.2. **Distribution:** Carry out two equal sowings at right angles to each other and diagonally to main axis.

335 Grass sowing season

1. **Grass seed generally:** April to October (or as recommended by supplier)

340 Pre-emergent herbicide

1. **Description:** FOR ALL AREAS TO BE SEEDED
2. **Standard:** Pesticide Safety Directorate approved.
3. **Application rate:** In accordance with manufacturer's written recommendation.
 - 3.1. **Timing:** Immediately after sowing.

350 Turf edging to seeded areas

1. **Description:** ADJCENT TO FOOTPATHS, ROADS AND HARDSCAPED AREAS
2. **Standard:** To BS 3969, with no perennial ryegrass.
 - 2.1. **Seed mix:** Similar to seeded area.
3. **Timing:** Before sowing.
4. **Preparation:** Rake back a 750 mm wide margin around prepared seed beds.
 - 4.1. **Level of seed bed:** Married in with turf.
5. **Placement:** Single row laid end to end and trimmed to a line.
6. **Watering:** On completion.

351 Mowing Margin to seeded areas

1. **Description:** Adjacent to fencing where there is not a deliberate tarmac mowing margin (i.e. by sports MUGA)

2. In order to avoid a hard to mow grass margin adjacent to the fence (and to avoid the need to install a tarmac mowing strip with edging), allow for leaving a 150mm wide strip of bare soil adjacent to the fence. This strip should not be seeded. If grass grows along this strip during the 12 months defects period it should be carefully sprayed off.

352 Edges to seeded areas

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

360 Germination

1. **All areas:** If the seed fails due to any cause, the Contractor shall at his own cost be required to make good the soiling and repeat the seeding until a good sward is obtained.
2. Grass areas will only be accepted as reaching practical completion when germination is satisfactory and all weeds have been removed (all injurious and invasive weeds have been removed in areas with wild flowers).

Turfing

410 Turf to BS 3969

1. **Description:** FOR ROAD & FOOTPATH VERGES (AMENITY GRASS AREAS ONLY)
2. **Standard:** To BS 3969, free from undesirable grasses and weeds.
 - 2.1. **Grade:** General purpose utility turf with perennial ryegrass
3. **Source:** Submit proposals.
4. **Herbicide treatment:** Apply not less than four weeks and not more than three months before lifting.
5. **Dimensions:** 1640 x 610 mm

430 Turfing generally

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

440 Turfing on banks exceeding 30° slope

1. Turf configuration: Diagonal or horizontal.
2. Securing turfs
 - 2.1. Fixings: Pointed softwood pegs, 200 mm long x 25 mm square
 - 2.2. Frequency of fixings: Each turf
3. Removal of fixings: When turf is thoroughly self anchored by its roots. Make good any damage to grass until area is accepted

Protecting/cutting

510 Protective fencing

1. Fencing type: Chestnut pale fencing to BS 1722-4
 - 1.1. Height: 1.2 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: 50 mm
2. Preparation
 - 2.1. Debris and litter: Remove.
 - 2.2. Stones and earth clods larger than 25 mm in any dimension: Remove
3. Height of first cut: 25 mm
4. Mower type: Contractor's choice
5. Arisings: Remove from site

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

595 Practical completion certificate for seeded/ turfed areas

1. Before a Certificate of Practical Completion or letter accepting 'The Works as complete' is issued, the following conditions must be fulfilled
 - 1.1. Complete germination of grass seed with a weed free sward (refer to Clause 360);
 - 1.2. All work must be fully completed and in accordance with the specification on the day named in the Certificate. Sectional Completion will be at the discretion of the CA;
 - 1.3. The contractor is responsible for any protection and maintenance as specified herein, required before practical completion at his own cost.
 - 1.4. The work shall be completely in accordance with the specification in a weed free and clean and tidy condition on the day named in the certificate; and
 - 1.5. All hard surfaces should be swept and litter free.

597 Rectification period (defects liability period)

1. All soft landscape works will be subject to a rectification period (formerly known as the defects liability period) from the date of Practical Completion. During these periods the contractor will be required to carry out maintenance operations as specified, and make good all defects and work which in the opinion of the CA is unsatisfactory

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: Submit proposals

620 Maintaining amenity grass areas

1. Description: AMENITY GRASSED AREAS
2. Duration: Carry out the following operations from completion of seeding/ turfing until: the end of the rectification period.
3. Maximum height of growth at any time: 50 mm
4. Preparation: Before each cut remove all litter and debris.
5. Cutting: As and when necessary to a height of 25 mm.
 - 5.1. Number of cuts: 10 annually as required
 - 5.2. Arisings: Mulch cut and spread arisings evenly over cut areas, or remove offsite
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: Timing and method contractor's choice, watering to ensure healthy dense sward is maintained.

621 Maintaining sports grass areas

1. Description: SPORTS FIELDS
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: 35 mm
4. Preparation: Before each cut remove all litter and debris.
5. Cutting: As and when necessary to a height of 20mm.
 - 5.1. Number of cuts: 16 annually as required
 - 5.2. Arisings: Mulch cut and spread arisings evenly over cut areas, or remove offsite
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:** Timing and method contractor's choice, watering to ensure healthy dense sward is established and maintained.

622 Maintaining SuDS swales

1. **Description:** SuDS Swales
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:** 20 mm - left uncut
4. **Preparation:** Before each cut remove all litter and debris.
5. **Cutting:** As and when necessary to a height of 20mm.
 - 5.1. **Number of cuts:** 2 annually as required
 - 5.2. **Arisings:** remove offsite
6. **Weed control:** Substantially free of broad leaved weeds.
 - 6.1. **Method:** Application of a suitable selective herbicide.
7. **Stones brought to the surface:** Remove regularly.
 - 7.1. **Size:** Exceeding 25 mm in any dimension.
8. **Areas of settlement:** Make good.
9. **Watering:** Timing and method contractor's choice, watering to ensure healthy dense sward is established.

650 Maintaining wildflower in SUDS scrapes

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:** 1st cut mid-September - 1st October and collect the arisings
 - 3.2. **Height of first cut:** 75 mm
 - 3.3. **Frequency of subsequent cutting (minimum):** Cut from mid-August to early October. This can be done as one cut but preferable, cut it in sections leaving a week to a fortnight between cuts. Collect the arisings.
If possible, and with the obvious exception of areas you are leaving uncut, lightly mow the sward down to 70 -100 mm as required throughout the winter months until March and collect the clippings.
 - 3.4. **Height of growth permitted (maximum):** 100 mm
4. **Trimming:** All edges.
 - 4.1. **Arisings:** Remove.
5. **Watering:** Timing and method contractor's choice, watering to ensure healthy dense sward is established and maintained.

651 Maintaining wildflower in orchard areas

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: 1st cut mid-September - 1st October and collect the arisings
 - 3.2. Height of first cut: 75 mm
 - 3.3. Frequency of subsequent cutting (minimum): Lightly mow the sward down to 70 -100 mm as required throughout the winter months until March and collect the clippings. If practical consider leaving up to one fifth of the area uncut, the remaining dead stalks will provide a nesting and hibernation site and egg laying habitat for invertebrates over the winter. Alternate this area each winter.
 - 3.4. Height of growth permitted (maximum): 100 mm
4. Trimming: All edges.
 - 4.1. Arisings: Remove.
5. Watering: Timing and method contractor's choice, watering to ensure healthy dense sward is established and maintained.

651 SuDS detention areas

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: First cut mid-September - 1st October and collect the arisings.
 - 3.2. Height of first cut: Cutting height 70 -100 mm
 - 3.3. Frequency of subsequent cutting (minimum): Cut from mid-August to early October. Collect the arisings. Lightly mow the sward down to 70 -100 mm as required throughout the winter months until March and collect the clippings.
 - 3.4. Height of growth permitted (maximum): 100 mm
4. Trimming: All edges.
 - 4.1. Arisings: Remove.
5. Watering: Timing and method contractor's choice, watering to ensure healthy dense sward is established and maintained.

680 Maintenance fertiliser

1. Description: For all amenity and sports grassed areas (not wildflower)
2. Duration: Carry out the following operations from completion of seeding/ turfing until: the end of the rectification period
3. March application (spring): 15:10:10 Spring turf fertilizer at 35 g/m² or as recommended by seed producer
4. September application (autumn): 5:10:10 Autumn turf fertilizer at 50 g/m² or as recommended by seed producer

Ω End of Section

Q31 External planting

Summary

Revision history

Date	No.	Title	Status	Revision	Note
14/06/2023	REV A	BCA Landscape	DRAFT FOR REVIEW		
14/06/2023	REV 0.1	BCA Landscape	DRAFT FOR REVIEW		
14/06/2023	0.1	BCA Landscape	DRAFT FOR REVIEW		
15/06/2023	1.0	BCA Landscape	For Information		
30/06/2023	2.0	BCA Landscape	For Information	Steps and handrail added	
26/07/2023	DRAFT	BCA Landscape			
03/08/2023		BCA Landscape	STAGE 4 ISSUE		
06/01/2025		DRAFT for internal check and review			
06/01/2025		DRAFT for internal check and review			
19/08/2025	P04	BCA Landscape	For Construction	P04	
19/08/2025		BCA Landscape	For Construction	P05	Specification updated with Revision
20/08/2025	BCA-ATK-XX-SP-LA-423001	BCA Landscape	P06		
20/08/2025	BCA-ATK-XX-SP-LA-423001	BCA Landscape	P06	FOR CONSTRUCTION	

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 (APPROVED FOR REMOVAL) scrub to ground level by flail mowing and remove arisings
5. **Large roots:** Grub up and dispose of without undue disturbance of soil and adjacent areas.

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.

119 Inspection of plant material

1. CA shall retain the right to inspect and pass all plant material before delivery to site at source of supply (bare root stock prior to lifting at nursery) unless otherwise agreed;
2. If so specified, the contractor will arrange for the CA or a representative to select and tag specimen trees and/or shrubs at the nursery of origin. Any such tags are to be retained intact on the tree or shrub until removed by the CA or a representative after planting;
3. The contractor shall collect together and/or label all specified stock ready for inspection by the CA prior to delivery to site, excepting those previously selected and tagged by the CA;
4. The CA or a representative shall be invited to inspect the plant stock thus assembled at least 3days prior to delivery on site;
5. Plants must not include those listed within Schedule 9, Wildlife & Countryside Act 1981;
6. The CA reserves the right to reject any plants which in his/her opinion do not meet the specification requirements;
7. The contractor will replace material rejected at no extra cost.

120 Climatic conditions

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

121 Setting out

1. The contractor is responsible for setting out planting beds and tree pit positions of all trees, large feathered and above, prior to planting on site according to drawings and any other relevant information supplied.
2. The outline of planting beds and their internal dimensions are as indicated on drawings.
3. The CA reserves the right to adjust the exact position of plants after setting out prior to planting.
4. The contractor is to report any apparent discrepancy immediately to the CA. Work only to resume on such an area after the error is resolved. Any error in setting-out is to be made good at the contractor's expense.
5. All planting, layout and locations are shown on the following drawings, including plant schedule details:
 - BCA-ATK-XX-XX-DR-LA- 423013 Site Wide planting Plan
 - BCA-ATK-XX-XX-DR-LA- 423014 Landscape Planting Plan North

- BCA-ATK-XX-XX-DR-LA- 423015 Landscape Planting Plan South
- BCA-ATK-XX-XX-DR-LA- 423016 Landscape Planting Plan West (Rugby Pitch)
- BCA-ATK-XX-XX-DR-LA- 423030 Detailed Planting Plan 1
- BCA-ATK-XX-XX-DR-LA- 423031 Detailed Planting Plan 2
- BCA-ATK-XX-XX-DR-LA- 423032 Detailed Planting Plan 3
- BCA-ATK-XX-XX-DR-LA- 423061 Roof Garden Planting Plan
- BCA-ATK-XX-XX-DR-LA- 423063 Memorial Garden Planting Plan
- BCA-ATK-XX-XX-SH-LA-423001 - PLANTING SCHEDULE SHEET 1 OF 2
- BCA-ATK-XX-XX-SH-LA-423002 - PLANTING SCHEDULE SHEET 2 OF 2

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.

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

165 Preparation, planting and mulching materials

1. Give notice before using planting and mulching materials.
2. **General:** Free from toxins, pathogens or other extraneous substances harmful to plant, animal or human life.
3. **Certification of source, analysis, suitability for purpose and absence of harmful substances:** Submit
4. **Certified materials:** Mulches and imported top/ sub soils

170 Soil requirements

1. Type
 - 1.1. Planted beds: Planting bed soil system, as section Q28
 - 1.2. Tree pits, shrub pits and other backfilling: Plant pit backfilling soil system, as section Q28
 - 1.3. External container planting: Container planting growing media system, as section Q28
 - 1.4. Mulch applied after planting: Mulching and top dressing system, as section Q28

200 Plants/ Trees – general

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

216 Plants/ Trees – specification criteria

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

225 Bulbs/ Corms/ Tubers

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

235 Container grown plants/ Trees

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

245 Labelling and information

1. General: Provide each plant/ tree or group of plants/ trees of a single species or cultivar with supplier's labelling for delivery to site, showing:
 - 1.1. Full botanical name.
 - 1.2. Total number.

- 1.3. Number of bundles.
- 1.4. Part bundles.
- 1.5. Supplier's name.
- 1.6. Employer's name and project reference.
- 1.7. Plant specification, in accordance with scheduled National Plant Specification categories.
2. Additional information: Submit on request: Date supplied and consignment details or reference.

246 Labelling and information

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

260 Plant/ Tree substitution

1. The contractor is to inform/advise the CA at the time of tendering any difficulty in supply of specified plant material.
2. The contractor is to tender a realistic price for any such plant material at the time of tender
3. Acceptable and written approval of species or variety substitutions of equal quality and cost are to be determined between the CA and contractor immediately after tender.
4. If between the date of tendering and date of planting, certain plants are no longer available, it is the contractor's responsibility to provide satisfactory evidence to the CA at the earliest opportunity. Substitutions are to be determined as above and approved in writing.
5. **Plants/ trees unobtainable or known to be likely to be unobtainable at time of ordering:** Submit alternatives, stating:
 - 5.1. Price.
 - 5.2. Difference from specified plants/ trees.
6. **Approval:** Obtain before making any substitution.
7. Plants have been specifically selected for their sensory qualities and or shade tolerance and because they are safe within a school context (not poisonous or spikey etc), with suitable ultimate growing heights and good robustness - alternatives must provide similar qualities to acceptance of CA.

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:** Coextruded polyethylene bags with black interior and white exterior
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.

270 Plant handling, storage transport and planting

1. Comply with CPSE 'Handling and establishing landscape plants' (obtainable from the Horticultural Trades Association) Part I, Part II and Part III, paragraphs 1.3.3 to 1.3.6, 3.0, and 4.0.
2. Handle plants/trees with care. Protect from mechanical damage and do not subject to shock, e.g. by dropping from a vehicle. Trees and shrubs to be carefully and adequately packed and protected to survive transport to the site without damage in loading, transit or unloading. Prices Tendered to include for packing, delivery to site and unloading.
3. No plants or trees are to be delivered to site until the preparation of their planting areas and positions are practically complete. 48 hours' notice of expected delivery shall be given to the CA.
4. Where there is unavoidable delay between delivery and planting, heel-in bare-rooted plants in a prepared trench and pack moist soil around the roots.

5. Pots and other protective materials not to be removed until immediately prior to planting and plants shall not be subjected to adverse conditions such as exposure to drying winds. Plants which suffer damage through any cause or which suffer drying of roots prior to planting will not be accepted and shall be replaced. Pots and other protective materials shall be disposed of after planting. Where delay in planting means that plants in containers are likely to dry out, watering must be carried out as necessary and as agreed by the CA before the plants are removed from their containers.
6. Dip all bare-root transplants in root dip according to supplier's recommendations, immediately after lifting and placed/stored in plastic bags until immediately prior to planting.
7. Spread roots out evenly of bare root stock. Backfill for bare root plants to be firmly heeled around the plant collar.
8. All plant material in full leaf, (i.e. all evergreens at all times and late spring planted for deciduous material) to have all the leaf area fully dipped in containers full of approved anti-desiccant solution mixed according to the manufacturer's instructions. Carry out immediately the plants arrive on site or at the nursery immediately prior to their collection. Provide evidence that this operation has been carried out on request.
9. Carefully prune damaged roots, branches or shoots. Replace trees or shrubs if major damage has occurred.
10. Re-firm all plants if lifted by frost during the contract period.
11. Protect plant roots between lifting and delivery from adverse conditions such as water logging or prolonged exposure to drying winds or frosts.

280 Treatment of tree wounds

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

285 Protection of existing grass

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

290 Surplus material

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

Plant containers

292 Prefabricated plant containers (Roof garden planter)

1. **Manufacturer:** Street Design Ltd.
Unit 35 Hayhill Industrial Estate
Barrow Upon Soar,
Leicestershire LE12 8LD

Tel: 01509 815335
Fax: 01509 815332
E-mail: sdl@street-design.com
 - 1.1. **Product reference:** Grenadier Plankit planter system (OR SIMILAR SUBJECT TO COMMENT)
2. **Material:** FSC Certified treated redwood

3. **Dimensions/ Shape:** As per drawing BCA-ATK-XX-XX-DR-LA-423060
4no. 90°corner unit outer wall 3900mm x 2575mm (width 1150) (height 1000mm)
4. **Lining:** Terram 1000 geotextile filter fabric lining
5. **Accessories:** Bexley 4 slat benches
6. **Installation options** TBC with CA (Standard/ dropped base/ without legs)

293 Prefabricated plant containers (Specimen tree pot)

1. **Manufacturer:** IOTA Garden and Home Limited
Wick Road
Wick St Lawrence
North Somerset
BS22 7YQ
United Kingdom
TEL 01934 522617
EMAIL INFO@IOTAGARDEN.COM
 - 1.1. **Product reference:** BOULEVARD DELTA 45 ROUND (OR SIMILAR SUBJECT TO COMMENT)
2. **Material:** Fibre reinforced cement
3. **Dimensions/ Shape:** 2no. DELTA 45 ROUND 100
H45CM DIA 100CM
WEIGHT: 42KG VOL: 330L
4. **Lining:** Not required
5. **Accessories:** None
6. **RAL colour** to be agreed with CA

296 Timber plant containers (Primary and secondary play area)

1. **Manufacturer:** WoodBlocX, Munro Sawmills, Old Evanton Road, Dingwall, Ross-shire, IV15 9UN, Scotland, United Kingdom
Tel: 0800 389 1420
Email: hello@woodblocx.co.uk
2. **Product name:** Raised Beds (rectangle) OR SIMILAR SUBJECT TO COMMENT
3. **Size:** 150(h) x 250(w) x 1800(l) mm
4. **Materials generally:** To BS EN 942.
 - 4.1. **Timber species:** Scots pine
 - 4.2. **Preservative treatment:** High pressure treated
 - 4.2.1. **Type:** To provide a 20 year service life
 - 4.3. **Finish:** Unfinished
5. **Lining/ Reservoir:** Waterproof

Preparation of planting beds/ planting materials

300 Herbicide

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

305 Weed control

1. **Description:** FOR INVASIVE NON-NATIVE WEEDS
2. **Locations:** All planting areas
3. **General:** Prevent weeds from seeding and perennial weeds from becoming established, by contractor's choice of herbicide .
4. Japanese Knotweed to be treated in accordance with the Environment Agency 'Managing Japanese knotweed on development sites. The knotweed code of practice'

Planting shrubs/ herbaceous plants/ bulbs

400 Random plant layout

1. **Description:** Proposed native woodland & understory planting
2. **Spacing:** Random groups of 3-11 plants of the same species.
3. **Density:** Understory @ 4 plants per m²
Woodland planting @ 7m centres

401 Regular plant layout

1. **Description:** Playground mix, Memorial Garden Planting Mix & Terraced planting
2. **Spacing:** As drawing TBC
3. **Density:** At 4 plants per m²

405 Shrub planting pits

1. **Timing:** Excavate 2 days (maximum) before planting.
2. **Sizes:** Wide enough to accommodate roots when fully spread and 75 mm deeper than root system
3. **Pit bottom improvement** Break up to a depth of 150 mm, incorporating 25 g of slow release fertilizer per planting pit.

415 Antidesiccant for conifers/ Evergreens

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

420 Climbing plants

1. **Planting:** 150 mm clear of supporting structure (e.g. wall/ fence) with roots spread outward.
 - 1.1. **Branches:** Lightly secured to supports.
2. **Climber supports:** Softwood
 - 2.1. **Base height:** 600 mm above ground
 - 2.2. **Centres:** 300 mm
 - 2.3. **Distance from wall:** 50 mm
3. **Fixings:** Galvanized screw eyes
 - 3.1. **Centres:** 2 m

435 Climbing plants used as ground cover

1. **Planting**
 - 1.1. **Canes or other supports:** Remove.

- 1.2. Arrangement: Spread stems.
2. Fixing: Pinned to ground to ensure good contact.

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.
3. Naturalized planting in existing grassed areas
 - 3.1. Scattering: Random. Plant bulbs/ corms/ tubers where they fall.
 - 3.2. Planting: Neatly remove a plug of turf and replace after planting.

471 Hedgerow Planting

1. Planting: Planting in double staggered rows, rows set at 300mm apart, 5. no plants per linear metre. Medium bark mulch at 50mm depth. Suitable removal shelters applied.
2. Plants: Ref to clauses 235, 265, 270 & 405

472 Fencing support for new hedges

1. Type: Chestnut pale fence, as section Q40
2. Timing: Before planting hedge.
3. Support: Lightly secure hedge plants to fence wires at appropriate intervals.

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: Sanitised and stabilised compost, or rain gardens as section Q28 155 Slate mulch
 - 3.1. Depth: 50 mm

486 Shrub protection

1. Manufacturer: Contractor's choice
 - 1.1. Product reference: Contractor's choice
2. Type: Round
3. Material: HDPE
4. Size: Contractor's choice, suitable for the size of plant specified to allow space for growth.
5. Colour: Green
6. Support: Single timber stake
7. General: Ensure that protection methods do not impede natural movement of shrubs or restrict growth.

Planting trees

500 Tree planting

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

502 Antidesiccant for conifers/ Evergreens

1. Manufacturer: Contractor's choice
 - 1.1. Product reference: Contractor's choice

2. **Application:** Dip or thoroughly spray before delivering to site. Spray again soon after planting.
 - 2.1. Do not apply in wet or frosty weather.
 - 2.2. Ensure full coverage of underside of foliage.

505 Tree pits

1. **Sizes:** 75 mm wider than the root spread, and same depth as the rootball/ full root spread
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
4. **Pit bottoms:** Excavate with slightly raised centre: Break up base to a depth of 150 mm.
 - 4.1. **Treatment:** Soil ameliorant worked into pit bottoms
5. **Pit sides:** Scarify.
6. **Backfilling material:** Excavated material from tree pit, installed to original soil profiles in accordance with BS 8545

510 Tree pit root barriers

1. **Locations:** To all tree pits adjacent to paved areas. Wherever the installed rootball will be within 2 m of a building foundation. Wherever the installed rootball will be within 3 m of an existing underground service route
2. **Manufacturer:** Contractor's choice
 - 2.1. **Product reference:** Contractor's choice
3. **Thickness:** 1.0 mm
4. **Barrier depth:** 1000 mm (to be confirmed by CA)
5. **Barrier length:** to be confirmed by CA
6. **Foil liner:** Not required
7. **Top of root barrier in relation to finished topsoil level:** 25 mm below ground level
8. **Installation:** With sides vertical. Remove all sharp objects adjacent to barrier.

512 Tree pit irrigation and ventilation accessories

1. **Locations:** To individual trees, terrace trees and amphitheatre trees
2. **Manufacturer:** Contractor's choice
 - 2.1. **Product reference:** Contractor's choice
3. **Type:** Perforated plastics irrigation pipe, 50 mm diameter, in circle above and around sides of rootball, with plastics cap.
4. **Pipe diameter:** 50 mm
5. **Ring diameter:** Suitable to the tree species and rootball
6. **Inlet:** Black plastics
7. **Installation**
 - 7.1. **Pipe:** Lay in loop above root ball with slight fall away from inlet pipe. Trim length to ensure a close fit in the tree pit. Connect both ends of pipe securely into plastics tee junction on inlet.
 - 7.2. **Top cap of inlet:** Protruding slightly above finished surround level.
 - 7.3. **Backfill material:** Carefully compact in layers.

515 Tree pit drainage

1. **Locations:** Terrace trees
2. **Depth of excavation:** Increase from specified size to allow for aggregate layer, with base slightly falling to outlet.

3. Aggregate layer: Clean gravel or broken stone, with no fines, graded 40 to 20 mm.
 - 3.1. Depth: 300 mm
4. Drainage pipes
 - 4.1. Type: Perforated plastics
 - 4.2. Diameter: 80 mm
 - 4.3. Position: Lay around perimeter of pit within aggregate layer.
 - 4.4. Discharge: TBC
5. Geotextile filter
 - 5.1. Manufacturer: Contractor's choice
 - 5.1.1. Product reference: Contractor's choice
 - 5.2. Position: Lay over aggregate before installing tree or backfill.
6. Completed pits: Test for free drainage before planting.

526 Root ball securing frames

1. Manufacturer: [GreenBlue Urban Ltd](#)
 - 1.1. Contact details
 - 1.1.1. Address: Northpoint
Compass Park
Junction Road
Bodiam
East Sussex
TN32 5BS
 - 1.1.2. Telephone: [+44 \(0\)1580 830800](tel:+44(0)1580830800)
 - 1.1.3. Web: www.greenblue.com
 - 1.1.4. Email: hello@greenblueurban.com
 - 1.2. Product reference: [ArborGuy - AnchorPlate \(SASAP04A\)](#)
2. Tensioning devices: Galvanized steel cables and ratchet tensioner.
3. Anchors
 - 3.1. Type: Galvanized mild steel deadman anchors.
 - 3.2. Number: 3.
4. Components: As per manufacturers recommendations
5. Depth: As per manufacturers recommendations
6. Installation: Ensure tree is positioned correctly and vertically prior to tightening guy line tensioners.
As per manufacturers recommendations

535 Tree stakes

1. Description: WHIPS AND FEATHERED TREES
2. Stakes: Softwood, peeled chestnut, larch or oak, straight, free from projections and large or edge knots and with pointed lower end.
 - 2.1. Preservative treatment: Not required
3. Stake size (minimum): 30 mm diameter
4. Stake length (minimum): 900 mm (short stake)

546 Single vertical staking for

1. Description: WHIPS AND FEATHERED TREES
2. Staking
 - 2.1. Position: Close to tree position on windward side.

- 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 to approximately 600 mm above ground level
4. **Ties:** Adjustable
 - 4.1. **Number of ties:** One
5. **Tying:** Secure tree firmly but not rigidly to stake with ties. Prevent tree from touching stake using spacer blocks or cushions if required.
 - 5.1. **Position:** Top tie within 25 mm of top of stake and additional ties equally spaced along the stake.
6. **Nails:** To BS 1202-1, galvanized, minimum 25 mm long and with 10 mm diameter heads.

550 Double staking for

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

570 Tree spats/ Mulch mats

1. **Manufacturer:** Contractor's choice
 - 1.1. **Product reference:** Contractor's choice
 - 1.2. **Material:** Biodegradable flax
 - 1.3. **Size:** 500 x 500 mm
2. **Recycled content:** 0% (minimum) to BS EN ISO 14021
3. **Watering:** Water soil thoroughly before laying.
4. **Laying:** In close contact with the soil surface.
 - 4.1. **Fitting:** Neatly and closely around tree stem, where necessary cutting a slit or flap.
 - 4.2. **Fixing:** Galvanized steel pins, where necessary
 - 4.3. **Overlay:** Tree mulch

Woodland/ matrix/ buffer zone planting

600 Woodland work generally

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

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.
4. **Tree stumps:** Remove mechanically to a minimum depth of 300 mm below ground level

625 Cultivation

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

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:** Monthly 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

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 and use of approved non-residual herbicides
2. **Planted areas:** Fork over beds as necessary to keep soil loose, with gentle cambers and no hollows. Take care not to reduce depth or effect of mulch.
3. **Precautions:** Ensure that trees and shrubs are not damaged by use of mowers, nylon filament rotary cutters and similar powered tools.
4. **Firming up:** Gently firm loosened soil around trees/ shrubs. Straighten leaning trees/ shrubs.
5. **Trees:** Spray crown when in leaf during warm weather.
 - 5.1. **Timing:** After dusk.
6. **Tree accessories:** Check condition of stakes, ties, guys, guards and irrigation and ventilation systems.
 - 6.1. **Broken or missing items:** Replace.

- 6.2. **Loose stakes:** Re-firm in the ground or replace as necessary to provide support to the tree.
- 6.3. **Loose guys:** Re-firm anchor points and adjust as necessary to provide support to the tree.
- 6.4. **Ties:** Adjust to accommodate growth and prevent constriction or abrasion.
- 6.5. **Damage to bark:** Cut back neatly with sharp knife. Prevent further damage.
- 6.6. **Frequency of checks:** Every month
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.

770 Woodland planting maintenance

1. **Watering:** As required for healthy establishment and continued growth depending on weather conditions
2. **Loose plants:** Refirm surrounding soil, without compacting.
3. **Weed control:** Cut down and remove weeds prior to setting seed in a 1 m diameter area around each tree.
4. **Vegetation except trees and coppice shoots to be retained:** Cut within the plantation area.
 - 4.1. **Height (maximum):** 50 mm
 - 4.2. **Arisings:** Leave between rows.
5. **Mechanical, chemical or mulching methods of vegetation control:** Submit proposals.
6. **Ditches and drains:** Keep clear.

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

Q40 Fencing

Summary

Revision history

Date	No.	Title	Status	Revision	Note
14/06/2023	REV A	BCA Landscape	DRAFT FOR REVIEW		
14/06/2023	REV 0.1	BCA Landscape	DRAFT FOR REVIEW		
14/06/2023	0.1	BCA Landscape	DRAFT FOR REVIEW		
15/06/2023	1.0	BCA Landscape	For Information		
30/06/2023	2.0	BCA Landscape	For Information	Steps and handrail added	
26/07/2023	DRAFT	BCA Landscape			
03/08/2023		BCA Landscape	STAGE 4 ISSUE		
06/01/2025		DRAFT for internal check and review			
06/01/2025		DRAFT for internal check and review			
19/08/2025	P04	BCA Landscape	For Construction	P04	
19/08/2025		BCA Landscape	For Construction	P05	Specification updated with Revision
20/08/2025	BCA-ATK-XX-SP-LA-423001	BCA Landscape	P06		
20/08/2025	BCA-ATK-XX-SP-LA-423001	BCA Landscape	P06	FOR CONSTRUCTION	

Fencing

2 Existing palisade perimeter fencing

1. Existing palisade perimeter fencing, gates and locks to be inspected and approved by CA as fit for purpose, where necessary repairs should be made to ensure fence longevity and suitability for purpose. Repairs may include re-fixing and replacement of parts.
2. Areas of fencing with significant gaps under fencing to be made good, and areas requiring repair to be made good to be agreed with CA following further assessment on site.
3. All gate locks to be reviewed in line with 'Secure by Design' standards.

3 Proposed boundary fencing & gates (2.2m high) Type A

1. **Manufacturer:** CLD Fencing Systems
Unit 11, Springvale Business Centre, Millbuck Way, Sandbach, Cheshire CW11 3HY
Tel 0333 259 0208
Email info@cld-fencing.com
 - 1.1. **Product reference:** CLD Securus Lite S1 OR SIMILAR SUBJECT TO COMMENT
2. **Standard:** To BS 1722-14:2017, BS EN ISO 1461:2009, BS EN 13438:2013, Secured By Design
3. **Height:** 2200mm
4. **Mesh and wire:** Wire Diameter: 4 mm nominal
Mesh Size: 76.2 x 12.5 mm
5. **Finish:** Polyester powder-coated to minimum 80 microns RAL 6005 GREEN
6. **Posts:** 60mm x 40mm RHS, galvanised after manufacture and polyester powder-coated to match fencing
7. **Maximum centres of posts:** 2440 mm
8. **Fixings:** 41mm x 21mm clamping channels and CLD SafeTFix hidden fixing system OR 30mm x 5mm full length clamp bar. Through bolt, security washer and non removable shear nut
9. **Method of setting posts:** Set posts in holes minimum 450mm square x 950mm deep min. Method to be confirmed by Civil Engineers and/or manufacturer recommendations prior to installation.
10. Post foundations to be confirmed by Civil Engineers and/or manufacturer, taking into account the exact details of the setting - especially where located on the top or bottom of slopes.
11. **Accessories:** Access gates to match with locking mechanism (subject to comment) refer to BCA-ATK-XX-XX-DR-LA-423009 LANDSCAPE SITE WIDE FENCING GA
12. **Conformity:** Submit manufacturer's and installer's certificates, to BS 1722-14.

3 Proposed fencing & gates (2.2m high) Type B

1. **Manufacturer:** Contractor's choice subject to comment
 - 1.1. **Product reference:** Steel palisade to match existing onsite contractor's choice SUBJECT TO COMMENT
2. **Standard:** BS EN ISO 1461:2009
3. **Height:** 2200 mm (to match existing on site)
4. **Finish:** Galvanised
5. **Posts:** Galvanized steel angle as per manufacturers recommendations
6. **Maximum centres of posts:** 2.75 m
7. **Method of setting posts:** Post foundations to be confirmed by Civil Engineers and/or manufacturer, taking into account the exact details of the setting - especially where located on the top or bottom of slopes.
8. **Gate Types:** To match existing palisade fencing onsite

9. **Accessories:** Access gates as required, to match, with locking mechanism (subject to comment by CA) refer to BCA-ATK-XX-XX-DR-LA-423009 LANDSCAPE SITE WIDE FENCING GA

3 Proposed boundary fencing & gates (2.0m high) Type C

1. **Manufacturer:** CLD Fencing Systems
Unit 11, Springvale Business Centre, Millbuck Way, Sandbach, Cheshire CW11 3HY
Tel 0333 259 0208
Email info@cld-fencing.com
 - 1.1. **Product reference:** CLD Securus Lite S1 OR SIMILAR SUBJECT TO COMMENT
2. **Standard:** To BS 1722-14:2017, BS EN ISO 1461:2009, BS EN 13438:2013, Secured By Design
3. **Height:** 2000mm
4. **Mesh and wire:** Wire Diameter: 4 mm nominal
Mesh Size: 76.2 x 12.5 mm
5. **Finish:** Polyester powder-coated to minimum 80 microns RAL 6005 GREEN
6. **Posts:** 60mm x 40mm RHS, galvanised after manufacture and polyester powder-coated to match fencing
7. **Maximum centres of posts:** 2440 mm
8. **Fixings:** 41mm x 21mm clamping channels and CLD SafeTFix hidden fixing system OR 30mm x 5mm
full length clamp bar. Through bolt, security washer and non removable shear nut
9. **Method of setting posts:** Set posts in holes minimum 450mm square x 950mm deep min. Method to be confirmed by Civil Engineers and/or manufacturer recommendations prior to installation.
10. Post foundations to be confirmed by Civil Engineers and/or manufacturer, taking into account the exact details of the setting - especially where located on the top or bottom of slopes.
11. **Accessories:** Access gates to match with locking mechanism (subject to comment) refer to BCA-ATK-XX-XX-DR-LA-423009 LANDSCAPE SITE WIDE FENCING GA
12. **Conformity:** Submit manufacturer's and installer's certificates, to BS 1722-14.

4 Proposed closeboard timber fencing & gates (2.4m high)

1. **Manufacturer:** Contractor's choice
2. **Height:** 2400mm
3. **Finish:** tanalised timber
4. **Posts:** contractors choice
5. **Maximum centres of posts:** 2440 mm
6. **Fixings:** contractors choice
7. **Method of setting posts:** Set posts in holes minimum 450mm square x 950mm deep min. Method to be confirmed by Civil Engineers and/or manufacturer recommendations prior to installation.
8. Post foundations to be confirmed by Civil Engineers and/or manufacturer, taking into account the exact details of the setting - especially where located on the top or bottom of slopes.
9. **Accessories:** Access gates to match with locking mechanism (subject to comment) refer to BCA-ATK-XX-XX-DR-LA-423009 LANDSCAPE SITE WIDE FENCING GA
10. **Conformity:** Submit manufacturer's and installer's certificates, to BS 1722-14.

10 600mm high timber knee rail

1. **Manufacturer:** Contractor's choice
2. **Standard:** To BS 1722-7, type
3. **Height:** 600mm

4. Wood: Contractor's choice
 - 4.1. Treatment: Contractor's choice
 - 4.2. Finish: Contractor's choice
5. Method of setting posts: Driven to a minimum depth of 600 mm
6. Conformity: Submit manufacturer's and installer's certificates, to BS 1722-7.

15 Proposed internal fencing & gates (2m high)

1. Description: Double sided hit and miss, slatted venetian style fence panels with posts, baseboard and matching gates (subject to comment by CA)
2. Manufacturer: Contractor's choice
3. Standard: To BS 1722-11.
4. Type of infill: Double sided hit and miss, slatted venetian style, OR SIMILAR SUBJECT TO COMMENT
 - 4.1. Slats: 44mm slat with 6mm gaps (Square edge)
 - 4.2. Treatment: To provide a 20-year service life
 - 4.3. Finish: Planed, smooth with no splinters or rough edges
5. Height: 2100mm
6. Posts: Preservative treated wood
 - 6.1. Treatment: To provide a 20-year service life
 - 6.2. Finish: Planed, smooth with no splinters or rough edges
7. Method of setting posts
 - 7.1. Hole depth: 300 mm square x 600 mm deep
 - 7.2. Concrete depth: Filled to not less than half the hole depth.
8. Accessories: Post caps and capping rails. Gates and closing accessories to match as required.
9. Notes: Post centres set at equal distances, no further than 1.8m apart. Check fence position and assess for wind loading – the height and degree of 'openness' of the fence will affect the depth and method of post setting. Confirm with CA.
Allow for fencing on sloping ground, the top rail to be horizontal and gaps to be filled at the bottom. Fencing shall be installed and checked to avoid finger traps, gaps between slats to be checked to ensure they are narrow enough to prevent climbing, confirm with manufacturer and CA.

23 Cleft chestnut pale hedgerow support fence

1. Manufacturer: [Jacksons Fencing](#) or as approved.
 - 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
 - 1.1.4. Email: sales@jacksons-fencing.co.uk
 - 1.2. Product reference: [Cleft Chestnut Fencing](#)
2. Posts: Manufacturer's standard.
3. Post foundations: Driven as required
4. Wire: Two or three rows of 2 mm galvanized wire strands.
5. Continuous materials: Cleft, peeled and pointed at one end.
6. Fence topping: Pointed.

27 Proposed rugby pitch ball-stop fencing & gates (4m high)

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
 - 1.1.4. Email: sales@jacksons-fencing.co.uk
 - 1.2. Product reference: [Ball Stop Fencing](#) OR SIMILAR SUBJECT TO COMMENT
2. Posts: Paired 60.3 mm-diameter steel posts (double lattice posts with bracing)
3. Post foundations: Base-plated 150 mm below ground level.
4. Fence panel: Bottom 2 m chain link plastic coated green above 2 m ball stop netting (50 mm)
Confirm details and recommendations with manufacturer and suitability for use.
5. Fence topping: Tubular top rail.
6. System accessories: Matching gates.
7. Height: 4000 mm.
8. Worked finish: Powder-coated, green RAL 6005.
9. Bottom of fencing: anchored to a concrete sill, as per manufacturers recommendations
10. Conformity: Submit manufacturer's and installer's certificates, to BS 1722-14.
11. Design life: Manufacturers guarantee on posts and fixings up to 25 years.
12. Maintenance: The ongoing maintenance beyond practical completion require that the end user ensures netting and chain link panels to be regularly inspected for wear and tear and continued suitability for use, damaged or worn panels are to be repaired/ replaced as required.

28 Proposed MUGA & 3G pitch fencing (3m high)

1. Manufacturer: [CLD Physical Security Systems](#)
 - 1.1. Contact details
 - 1.1.1. Address: MODSEC House
Moston Road
Sandbach
Cheshire
United Kingdom
CW11 3HL
 - 1.1.2. Telephone: [+44 \(0\)1270 764751](tel:+441270764751)
 - 1.1.3. Web: www.cld-systems.com
 - 1.1.4. Email: info@cld-systems.com
 - 1.2. Product reference: [Dulok Rebound™ Double Wire Panel System for Sports](#) OR SIMILAR
SUBJECT TO COMMENT
2. System performance: Sports fencing performance.
3. Posts: Manufacturer's standard.
4. Height: 3000 mm
5. Colour and finish: Galvanized and polyester powder-coated, RAL 6005
6. Width: 2506 mm.
7. Mesh size: 50 x 66.5 mm.
8. WireDiameter: Verticals: 6 mm. Horizontals: 8 mm.

9. **Accessories:** Access gates as required, to match, with locking mechanism (as approved by CA) refer to BCA-ATK-XX-XX-DR-LA-423009 LANDSCAPE SITE WIDE FENCING GA
10. **Conformity:** Submit manufacturer's and installer's certificates, to BS 1722-14.

30 Proposed acoustic fencing

1. **Description:** ACOUSTIC
2. **Manufacturer:** Contractor's choice
 - 2.1. **Product reference:** Contractor's choice SUBJECT TO COMMENT
3. **Height:** To be confirmed by CA (assume 2.5m)
4. **Materials:** Wood
 - 4.1. **Treatment:** To provide a 30-year service life
 - 4.2. **Finish:** None
5. **Centres of posts (maximum):** As manufacturer's recommendations
6. **Method of setting posts:** As manufacturer's recommendation

33 Proposed internal fencing (1.2m high Bow Top)

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
 - 1.1.4. **Email:** sales@jacksons-fencing.co.uk
 - 1.2. **Product reference:** [Anti-Trap Bow Top Fencing](#) OR SIMILAR SUBJECT TO COMMENT
2. **Standard:** To BS EN 1176.
3. **Posts:** Steel posts, 60.3 mm circular hollow section (CHS) at 2737 mm centres.
4. **Post foundations:** Set in concrete.
5. **Rails:** Two 50 x 25 mm horizontal rails with vertical, round, hollow section.
6. **Panels:** Steel anti-trap bow top panels.
7. **Fence topping:** Bow top.
8. **Colour:** Colour to be confirmed with CA prior to ordering
9. **Finish:** Powder-coated
10. **Height:** 1200 mm.
11. **Gates:** Swing.
12. **Size:** Matching gates, double-leaf, 1200 mm.
13. **Finish/ Colour:** Colour to be confirmed with CA prior to ordering
14. **Pales:** 19 mm.
15. **Method of setting posts:** As manufacturer's recommendation, post foundations to be confirmed by Civil Engineers and/or manufacturer, taking into account the exact details of the setting - especially where located on the top or bottom of slopes.

60 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.

70 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 half the depth, well rammed as filling proceeds and consolidated.
- 7. **Backfilling of holes not completely filled with concrete:** Excavated material, well rammed and consolidated.

90 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.

Ω End of Section

Q41 Barriers/ guardrails

Summary

Revision history

Date	No.	Title	Status	Revision	Note
14/06/2023	REV A	BCA Landscape	DRAFT FOR REVIEW		
14/06/2023	REV 0.1	BCA Landscape	DRAFT FOR REVIEW		
14/06/2023	0.1	BCA Landscape	DRAFT FOR REVIEW		
15/06/2023	1.0	BCA Landscape	For Information		
30/06/2023	2.0	BCA Landscape	For Information	Steps and handrail added	
26/07/2023	DRAFT	BCA Landscape			
03/08/2023		BCA Landscape	STAGE 4 ISSUE		
06/01/2025		DRAFT for internal check and review			
06/01/2025		DRAFT for internal check and review			
19/08/2025	P04	BCA Landscape	For Construction	P04	
19/08/2025		BCA Landscape	For Construction	P05	Specification updated with Revision
20/08/2025	BCA-ATK-XX-SP-LA-423001	BCA Landscape	P06		
20/08/2025	BCA-ATK-XX-SP-LA-423001	BCA Landscape	P06	FOR CONSTRUCTION	

Types of barriers/ guardrails

110 Type A Proposed key clamp railing (1100mm) Construction yard area

1. **Standard:** To BS 7818 Class C: Normal duty (parapet)
2. **Manufacturer:** Contractor's choice
3. **System performance:** Design submittals.
4. **Post foundations:** Base plate fixing.
5. **Rails:** Galvanized
6. **Height:** 1100 mm.
7. **Other requirements:** Railing subject to approval by engineers, installation and compliance as per manufacturers recommendations
8. **Performance verification:** Submit a certificate of the restraint system's conformity to BS 7818, issued by a United Kingdom Accreditation Service (UKAS) independent laboratory, prior to ordering materials.

110 Type B PROVISIONAL Proposed fall from height protection to top of walls (1.1m high) Terrace fall protection

1. **Standard:** To BS 7818 Class C: Normal duty (parapet)
2. **Manufacturer:** [Architectural Street Furnishings part of WB White Foundry](#)
 - 2.1. **Contact details**
 - 2.1.1. **Address:** Priors Road
Armytage Road
Brighouse
West Yorkshire
HD6 1PY
 - 2.1.2. **Telephone:** +44 (0)1484 401414
 - 2.1.3. **Web:** www.asfco.co.uk
 - 2.1.4. **Email:** info@asfco.co.uk
 - 2.2. **Product reference:** [ASF Birkenhead Railings](#) OR SIMILAR SUBJECT TO COMMENT
3. **System performance:** Design submittals.
4. **Post foundations:** Root fixed.
5. **Rails:** Carbon steel, galvanized and powder-coated to a graphite grey finish.
6. **Rail Configuration:** Nine.
7. **Panels:** Straight and curved as required
8. **Construction:** Laser profiled heavy duty carbon steel sheet.
9. **Top rail:** Stainless steel, grade 316 (1.4401), brush polished.
10. **Height:** 1100 mm.
11. **Panel width:** 2000 mm.
12. **Other requirements:** Terrace fall protection subject to approval by engineers, installation and compliance as per manufacturers recommendations
13. **Performance verification:** Submit a certificate of the restraint system's conformity to BS 7818, issued by a United Kingdom Accreditation Service (UKAS) independent laboratory, prior to ordering materials.

130 Metal post and rail barrier systems Type A

1. **Description:** Heavy duty door barrier designed and built to withstand the rigours of all day-to-day environments, complete with integral rubber buffer as standard. Suitable for use with non-powered doors only

2. Manufacturer: [Broxap Ltd](#)

2.1. Contact details

2.1.1. Address: Rowhurst Industrial Estate
Chesterton
Newcastle-under-Lyme
Staffordshire
ST5 6BD

2.1.2. Telephone: [+44 \(0\)1782 571700](tel:+44(0)1782571700)

2.1.3. Web: www.broxap.com

2.1.4. Email: nbs@broxap.com

2.2. Product reference: Door Barrier BX14/DB OR SIMILAR APPROVED

2.3. Dimensions: 1020mm height 450mm width (dia. tube 42mm)

3. Material/ Protection: Steel, galvanized to BS EN ISO 1461 after fabrication

4. Surface finish: Powder coating

4.1. Colour/ Texture: RAL 9010/ matt

5. Fixings/ Foundations: Standard root fixed as per manufacturers recommendations

6. Other requirements: supplied with a rubber lid catch to hold the door open

Performance/ inspection/ testing - Not Used

Installation

405 Competence

1. Operatives: Contractors must employ competent operatives.
2. Qualifications: Submit certification of training.
 - 2.1. UKAS Sector Scheme 2A sub-categories: (b)

420 Alignment

1. Erection: Fences/ barriers to present a flowing alignment. Tops of posts to follow ground profile.
2. Tolerance: ± 30 mm of prescribed alignment and, within any 10 m length, ± 15 mm from the straight or required radius.

430 Erection generally

1. Protection: Coat all internal and external surfaces of aluminium and steel posts below and up to 150 mm above ground level, with two coats of bituminous paint to BS 6949 type 2, unless other applied surface finish is specified.
2. Prevention of electrolytic corrosion: Isolate dissimilar metals.
3. Steel components: Do not drill, cut or weld after galvanizing.

490 Damage repair to galvanized surfaces

1. Areas of repair: Minor damage, including fixings and fittings.
 - 1.1. Total area of repair not to exceed 0.5% of total surface area.
 - 1.2. Each area not to exceed 1000 mm².
2. Renovation: Use low melting point zinc alloy repair rods or powders or at least two coats of zinc-rich paint to BS 4652.

510 Preparation for site painting

1. Preparation and application: As soon as possible after installation of barriers/ guardrails.

Completion

900 Documentation

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

Ω End of Section

Q50 Site/ street furniture/ equipment

Summary

Revision history

Date	No.	Title	Status	Revision	Note
14/06/2023	REV A	BCA Landscape	DRAFT FOR REVIEW		
14/06/2023	REV 0.1	BCA Landscape	DRAFT FOR REVIEW		
14/06/2023	0.1	BCA Landscape	DRAFT FOR REVIEW		
15/06/2023	1.0	BCA Landscape	For Information		
30/06/2023	2.0	BCA Landscape	For Information	Steps and handrail added	
26/07/2023	DRAFT	BCA Landscape			
03/08/2023		BCA Landscape	STAGE 4 ISSUE		
06/01/2025		DRAFT for internal check and review			
06/01/2025		DRAFT for internal check and review			
19/08/2025	P04	BCA Landscape	For Construction	P04	
19/08/2025		BCA Landscape	For Construction	P05	Specification updated with Revision
20/08/2025	BCA-ATK-XX-SP-LA-423001	BCA Landscape	P06		
20/08/2025	BCA-ATK-XX-SP-LA-423001	BCA Landscape	P06	FOR CONSTRUCTION	

Gates, barriers and parking controls

190 Bollard Type B1

1. Description: Bollard Stainless Steel Semi Dome
2. Manufacturer: Barriers Direct, Unit 18, New Horizon Business Centre, Barrows Rd, Harlow CM19 5FN
Tel: 0800 0288010
Email: support@barriersdirect.co.uk
 - 2.1. Product reference: Bollard Stainless Steel Semi Dome (48-168mm DIA) Satin brushed grade 304 OR SIMILAR SUBJECT TO COMMENT
3. Material: Stainless steel
 - 3.1. Finish as delivered: Satin polished
4. Height above ground: 900 mm
5. Sectional size: 101 mm diameter
6. Top: Domed
7. Method of fixing: Root, 300 mm x 400mm below ground, set in concrete base as per manufacturers recommendations

196 Removable bollards Type B2

1. Manufacturer: Barriers Direct, Unit 18, New Horizon Business Centre, Barrows Rd, Harlow CM19 5FN
Tel: 0800 0288010
Email: support@barriersdirect.co.uk
 - 1.1. Product reference: Bollard Removable Stainless Steel 900mm above ground OR SIMILAR SUBJECT TO COMMENT
2. Material: Stainless steel
 - 2.1. Finish as delivered: Brushed grade 304
3. Height above ground: 900 mm
4. Sectional size: 204 mm
5. Top: Domed
6. Method of fixing: Socket - 300mm (below ground). Concrete base with manufacturer's standard lockable socket, as per manufacturers recommendations

Site and street furniture

210 Cycle stands

1. Manufacturer: [Broxap Ltd](#)
 - 1.1. Contact details
 - 1.1.1. Address: Rowhurst Industrial Estate
Chesterton
Newcastle-under-Lyme
Staffordshire
ST5 6BD
 - 1.1.2. Telephone: +44 (0)1782 571700
 - 1.1.3. Web: www.broxap.com
 - 1.1.4. Email: nbs@broxap.com
 - 1.2. Product reference: [Sheffield Cycle Stand \(BXMW/GS0 Senior Sheffield Cycle Stand\)](#)
2. Stand type: Sheffield Cycle Stand
3. Number of stands: Single

4. **Base:** Root fixed.
5. **Size:** 800 x 715 mm.
6. **Material:** Stainless steel
 - 6.1. **Finish:** Brushed satin
7. **Method of fixing:** Root, below ground, set in concrete base as per manufacturers recommendations

212 Covered cycle storage

1. **Description:** Cycle shelter
2. **Manufacturer:** [Broxap Ltd](#)
 - 2.1. **Contact details**
 - 2.1.1. **Address:** Rowhurst Industrial Estate
Chesterton
Newcastle-under-Lyme
Staffordshire
ST5 6BD
 - 2.1.2. **Telephone:** +44 (0)1782 571700
 - 2.1.3. **Web:** www.broxap.com
 - 2.1.4. **Email:** nbs@broxap.com
 - 2.2. **Product reference:** New Sheffield Cycle Shelter (10 cycles) OR SIMILAR SUBJECT TO COMMENT
3. **Material:** Mild steel, hot dipped galvanised to BS EN ISO 1461:2009 & Polyester Powder Coated
 - 3.1. **Finish:** Polyester powder-coated
 - 3.2. **Colour:** RAL 9005 Jet Black
4. **Method of fixing:** Submerged baseplate, as per manufacturers recommendations

220 Benches (Type S1 - Primary and Nursey areas)

1. **Description:** Wooden bench (450)
2. **Manufacturer:** Playtime By Fawns
Beech House, Ancells Business Park, Fleet, Hampshire, GU51 2UN
Tel: 01252 515199
Email: sales@fawns.co.uk
 - 2.1. **Product reference:** Palma bench seat OR SIMILAR SUBJECT TO COMMENT
3. **Size:** L1.50m W0.46m H0.74m
4. **Accessories/ Special requirements:** None
5. **Method of fixing:** Surface fixed, as per manufacturers recommendations

220 Benches (Type S2 - Semi circular)

1. **Description:** Curved bench
2. **Manufacturer:** Woodscape, Shadsworth Business Park, 1 Sett End Road West, Blackburn BB1 2QJ
Tel: 01254 685 185
Fax: 01254 671 237
Email: sales@woodscape.co.uk
 - 2.1. **Product reference:** Clifton OR SIMILAR SUBJECT TO COMMENT
3. **Material:** FSC® Naturally Very Durable Hardwood
 - 3.1. **Finish:** Stainless steel
 - 3.2. **Colour:** None

4. Size: 2.4 m long (TBC)
5. Height: 450mm
6. Legs: Band leg
7. Accessories/ Special requirements: None
8. Method of fixing: Surface fixed, as per manufacturers recommendations

220 Street and site seats (Type S3 - Secondary areas)

1. Description: Hardwood timber bench
2. Manufacturer: [Broxap Ltd](#)
 - 2.1. Contact details
 - 2.1.1. Address: Rowhurst Industrial Estate
Chesterton
Newcastle-under-Lyme
Staffordshire
ST5 6BD
 - 2.1.2. Telephone: +44 (0)1782 571700
 - 2.1.3. Web: www.broxap.com
 - 2.1.4. Email: nbs@broxap.com
 - 2.2. Product reference: Ravensmoor Seat (Regero Range) OR SIMILAR SUBJECT TO COMMENT
3. Material: FSC® (FSC-C122338) Iroko (Kambala) hardwood
 - 3.1. Finish: Frame is made from mild steel square tube, hot dip galvanized
4. Size: 1770mm
5. Height: 520mm
6. Accessories/ Special requirements: None
7. Method of fixing: Surface fixed, as per manufacturers recommendations

220 Street and site benches (Type S4 - Amphitheatre seating)

1. Description: Timber seat with gabion support
2. Manufacturer: [Furnitubes International Ltd](#)
 - 2.1. Contact details
 - 2.1.1. Address: 28 Leonard Street
London
United Kingdom
United Kingdom
EC2A 4BY
 - 2.1.2. Telephone: +44 (0)20 8378 3200
 - 2.1.3. Web: www.furnitubes.com
 - 2.1.4. Email: sales@furnitubes.com
 - 2.2. Product reference: Elements OR SIMILAR SUBJECT TO COMMENT
3. Material: Hardwood Iroko timber slats
 - 3.1. Finish: Smooth
4. Size: Refer to drawing for details BCA-ATK-XX-XX-DR-LA-423005. TBC with Landscape Architect and CA
5. Accessories/ Special requirements: Gabion support, baskets to be filled with site won material. Confirm suitability of material for use.
6. Method of fixing: As per manufacturers recommendations

225 Storyteller seat Type S5

1. **Description:** Storytellers' Wooden Seating
2. **Manufacturer:** TTS
Building 1
Heyworth Road, Off A611
Hucknall
NOTTINGHAMSHIRE
NG15 6XJ
Tel: 0800 138 1370
Fax: 0800 137 525
sales@tts-group.co.uk
 - 2.1. **Product reference:** Storytellers' Wooden Seating OR SIMILAR SUBJECT TO COMMENT
3. **Material:** Pre-treated Scandinavian Redwood
 - 3.1. **Finish:** As manufactured
 - 3.2. **Colour:** None
4. **Size:** Width:88 cm
Depth:80 cm
Seat Height:44 cm
5. **Method of fixing:** TBC as per manufacturers requirements

230 Picnic benches (secondary areas) Type S6

1. **Manufacturer:** [Furnitubes International Ltd](#)
 - 1.1. **Contact details**
 - 1.1.1. **Address:** 28 Leonard Street
London
United Kingdom
United Kingdom
EC2A 4BY
 - 1.1.2. **Telephone:** +44 (0)20 8378 3200
 - 1.1.3. **Web:** www.furnitubes.com
 - 1.1.4. **Email:** sales@furnitubes.com
 - 1.2. **Product reference:** Thetford Picnic Bench & Table Standard picnic solution (THE ST6 M) OR SIMILAR SUBJECT TO COMMENT
2. **Material:** Iroko timber slats – smooth planed finish
Steel – galvanised finish
3. **Size:** L1975 mm x W1665mm
4. **Method of fixing:** Thetford products are supplied flat-packed as bench and table platforms, and end frames, for on-site assembly with supplied bolts. Each foot has a fixing plate pre-drilled for ground fixing. As per manufacturers recommendations.

240 Litter bins

1. **Description:** Litter Bins (580mm dia. x 950mm high)
2. **Manufacturer:** Woodscape, Shadsworth Business Park, 1 Sett End Road West, Blackburn BB1 2QJ
01254 685185
sales@woodscape.co.uk
www.woodscape.co.uk
 - 2.1. **Product reference:** LBR 90 LITTER BIN OR SIMILAR SUBJECT TO COMMENT
3. **Material:** Wood (FSC timber)
 - 3.1. **Finish:** As manufactured

- 3.2. Colour: None
- 4. Accessories/ Special requirements: Galvanized steel liner
- 5. Method of fixing: Built in below ground (Base plate bolted to 400 x 400 x 400 mm concrete base 100 mm below paving surface)

262 Tree grilles

- 1. Description: Sunburst Square Tree Grille - 900 x 900mm
- 2. Manufacturer: [Broxap Ltd](#)
 - 2.1. Contact details
 - 2.1.1. Address: Rowhurst Industrial Estate
Chesterton
Newcastle-under-Lyme
Staffordshire
ST5 6BD
 - 2.1.2. Telephone: +44 (0)1782 571700
 - 2.1.3. Web: www.broxap.com
 - 2.1.4. Email: nbs@broxap.com
 - 2.2. Product reference: BX 1211 OR SIMILAR SUBJECT TO COMMENT
- 3. Material: Cast iron
 - 3.1. Finish: As manufactured
 - 3.2. Colour: Black RAL 9005
- 4. Size: Outside measurement: 900mm x 900mm square
Internal aperture diameter: 450mm
- 5. Accessories/ Special requirements: Medium duty frame
- 6. Method of fixing: The tree frame is secured into a concrete base by either bolting or sinking the tangs into wet concrete.
The concrete base sections should be approximately 150mm wide and 200mm deep to provide adequate support.
The tree grille is secured to the frame using anti-theft clamps

340 Bespoke timber seating / play area

- 1. Material: Site won timber from tree clearance
- 2. Timber should be naturally resilient timber - Landscape Architect will confirm - submit proposals re. any potentially reusable timber as per Section D20:175
Exact log TBC with CA/Landscape Architect prior to moving into position. Diameter of log stumps to be suitable so that they cannot easily topple over by children's weight. They should be min. 450mm diam. Can be free standing if stable enough - otherwise bury min 100mm in the ground. Height - range from 300-500mm Smooth upper surface - no cracks or fissures - finger traps or splinters. Exact arrangement, positioning TBC with CA/Landscape Architect and/or as shown on drawing. Suitable timber: Hardwood and/or Oak, Sweet Chestnut, Beech, Cedar, Pine, Redwood, Plane, Acacia, Robinia, Yew.
If the sourced timber has already had chance to air dry so that the moisture content is suitably low, treat timbers prior to installation with OsmoTeak Oil (<http://www.osmouk.com>) or other similar products in accord with manufacturer recommendations. If the timber is supplied green, install without treatment but include for treating with Osmo Teak Oil at the end of the 12 month maintenance/defects period.
Areas of bark can potentially be left on to provide texture and interest (the whole point of using trees is for their natural surface). If sharp splinters or protrusions are revealed and are deemed to cause a hazard these should be removed and smoothed. It must not be possible for children to move/topple/push over etc the timber and there must be no significant finger/limb/head traps (no finger traps with gaps between 8 – 25mm and to avoid entrapment not have them within range of 89-230mm). Chamfer ends of timbers to avoid splitting and remove all sharp edges. Remove

projections, pegs, twigs, spikes or burrs if deemed to potentially cause injury. Run your hand over surfaces and remove/smooth as necessary.

NB for school - The timber/logs should be inspected regularly to ensure their fitness for use and safety, this should be done during regular maintenance visits and include checks for signs of decay, damage and/or instability. If significant cracks or weaknesses/decay appear suitable remediation and safety precautions should be followed, including timber bespoke items repair, stabilisation or prevention of use and removal from site.

3. **Approximate size:** Natural timbers to be cut as required to ensure they are safe, stable and suitable for intended function as benches/climbable play features.
4. **Method of fixing:** Method of fixing and installation subject to comment by CA and engineers, Landscape Architect to appraise the exact timbers available and agree how they are cut, treated and positioned.

345 Willow dome

1. **Supplier:** Broxap Ltd.
Rowhurst Industrial Estate
Chesterton
Newcastle-under-Lyme
Staffordshire, ST5 6BD
Tel: 01782 564411
Email: info@broxap.com
1.1. **Product reference:** Willow Dome OR SIMILAR SUBJECT TO COMMENT
2. **Material:** Willow (wood)
3. **Approximate size:** 1.8 m height x 3.1m dia.
4. **Delivery/ Handling/ Storage requirements:** Ensure viability of live willow, maintain in shade and water as required. As per manufacturers recommendations.
5. **Method of fixing:** As per manufacturers recommendations

Installation

510 Concrete foundations generally

1. **Standard:** To BS 8500-2.
2. **Concrete:** Standard prescribed, not less than ST2
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 shown on detailed drawings and as per manufacturers fixing recommendations for site furniture/ fencing
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.

520 Setting in earth

1. **Holes:** As small as practicable.
2. **Components being fixed:** Accurately positioned and securely supported.

3. Buried depth (minimum): As required
4. Earth refill: Well rammed as filling proceeds.

530 Preservative treated timber

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

545 Erection of timber and prefabricated structures

1. Checking: 5 days (minimum) before proposed erection date, check foundations, holding down bolts, etc.
2. Inaccuracies or defects in prepared bases or supplied structures: Report immediately. Obtain instructions before proceeding.

550 Damage to galvanized surfaces

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

Ω End of Section

Q52

Play and sports equipment

Summary

Revision history

Date	No.	Title	Status	Revision	Note
14/06/2023	REV A	BCA Landscape	DRAFT FOR REVIEW		
14/06/2023	REV 0.1	BCA Landscape	DRAFT FOR REVIEW		
14/06/2023	0.1	BCA Landscape	DRAFT FOR REVIEW		
15/06/2023	1.0	BCA Landscape	For Information		
30/06/2023	2.0	BCA Landscape	For Information	Steps and handrail added	
26/07/2023	DRAFT	BCA Landscape			
03/08/2023		BCA Landscape	STAGE 4 ISSUE		
06/01/2025		DRAFT for internal check and review			
06/01/2025		DRAFT for internal check and review			
19/08/2025	P04	BCA Landscape	For Construction	P04	
19/08/2025		BCA Landscape	For Construction	P05	Specification updated with Revision
20/08/2025	BCA-ATK-XX-SP-LA-423001	BCA Landscape	P06		
20/08/2025	BCA-ATK-XX-SP-LA-423001	BCA Landscape	P06	FOR CONSTRUCTION	

General

140 Multi-use games area re-surface existing (3G MUGA)

1. **Description:** Resurfacing of existing surfacing
2. **Equipment:** As existing, SUBJECT TO COMMENT BY CA
3. **Surfacing:** as section Q26: 120
 - 3.1. **Line markings:** Painted, as section Q26: 120
4. **Containment:** as section Q40: 28

151 Team dug-outs

1. **Description:** 4m premier curved freestanding team shelter (rugby pitch)
2. **Supplier:** Sportequip
The Manor, Tur Langton
Leicestershire, LE8 OPJ
Phone: 01858 545789
Email: info@sportsequip.co.uk
3. **Product reference :** SHE-010/015/017 OR SIMILAR SUBJECT TO COMMENT
4. **Dimensions:** 4m wide
2.05m high
1.3m deep (internal)
1.57m deep (external)
5. **Materials:** Manufactured from 50mm x 50mm aluminium with bespoke internal extrusions.
Polyester powder coated white.
4mm thick clear co-polyester side and back sheets.
Individual injection moulded polypropylene seats (colour to be confirmed).
6. Freestanding team shelters must be securely anchored at all times, as per manufacturers recommendations.

152 Outdoor Storage Unit

1. Outdoor Storage Unit
2. **Supplier:** TTS
Building 1
Heyworth Road, Off A611
Hucknall
NOTTINGHAMSHIRE
NG15 6XJ

Tel: 0800 138 1370
Fax: 0800 137 525
sales@tts-group.co.uk
OR SIMILAR SUBJECT TO COMMENT
3. **Product reference :** FU07830 OR SIMILAR SUBJECT TO COMMENT
4. **Dimensions:** Height:80 cm
Length:200 cm
Width:60 cm
5. **Materials:** Wood with felt roof
6. Must be installed on flat ground, as per manufacturers recommendations

165 Trim trail

1. **Description:** TO SCHOOL GROUNDS
2. **Equipment:** Wooden trim trail set

- 2.1. **System manufacturer:** Trim Trail Ltd.
0330 124 2753
info@trimtrail.co.uk
- 2.2. **Product reference:** Super Trail 1 OR SIMILAR SUBJECT TO COMMENT
3. **Surfacing:** As per manufacturers recommendations, ensure surfacing is suitable for fall heights up to 600mm
4. **Accessories:** None

System performance - Not Used

Products

410 Sandpit

1. **Description:** Sandpit with Sliding Lids
2. **Standard:** To BS EN 1176-1.
3. **Manufacturer:** Playtime By Fawns
Beech House, Ancells Business Park, Fleet, Hampshire, GU51 2UN
Tel: 01252 515199
Email: sales@fawns.co.uk
- 3.1. **Product reference:** Sandpit with Sliding Lids OR SIMILAR SUBJECT TO COMMENT
4. **Sand:** Play
5. **Materials:** Wood
6. **Size:** L1.70m x W3.60m H0.30m
7. **Features:** MINIMUM SPACE: 6.60m x 4.79m
FREE FALL HEIGHT: 0.6m

450 Water play equipment (water wall)

1. **Description:** Water wall
2. **Standard:** To BS EN 1176-1.
3. **Manufacturer:** Red Monkey play
74 Pullman Rd
Wigston
Leicester
LE18 2DB
Leicester Office: 0116 366 9922
Email: hello@redmonkeyplay.co.uk
- 3.1. **Product reference:** Water Wall Complete OR SIMILAR SUBJECT TO COMMENT
4. **Type:** Water wall (chutes and tubes)
5. **Materials:** Wood
- 5.1. **Colour:** Manufacturer's standard
6. **Size:** L200cm x W80cm x H190cm
7. **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.

720 Concrete foundations generally

1. **Standard:** To BS 8500-2.
2. **Concrete:** Designated, not less than GEN 1 or Standard prescribed, not less than ST2.
3. **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.

725 Setting components in concrete

1. **Holes:** As per manufacturers recommendations for components installation
2. **Components:** Accurately positioned and securely supported.
3. **Concrete fill:** Fully compacted as filling proceeds.
4. **Concrete foundations exposed to view:** Finished to weathering profile to shed water and trowel smooth.
5. **Temporary component support:** Maintain undisturbed for minimum 48 hours.

730 Setting components in earth

1. **Holes:** As small as practicable.
2. **Components being fixed:** Accurately positioned and securely supported.
3. **Buried depth (minimum):** As per manufacturers recommendations for components installation
4. **Earth refilling:** Well rammed as filling proceeds.

740 Preservative treated timber

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

750 Damage to galvanized surfaces

1. **Minor damage in areas up to 40 mm² (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.

760 Site painting

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

Completion

910 Inspection

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

920 Cleaning

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

930 Testing

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

940 Labels

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

950 Documentation

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

Ω End of Section

Z10

Purpose made joinery

Summary

Revision history

Date	No.	Title	Status	Revision	Note
14/06/2023	REV A	BCA Landscape	DRAFT FOR REVIEW		
14/06/2023	REV 0.1	BCA Landscape	DRAFT FOR REVIEW		
14/06/2023	0.1	BCA Landscape	DRAFT FOR REVIEW		
15/06/2023	1.0	BCA Landscape	For Information		
30/06/2023	2.0	BCA Landscape	For Information	Steps and handrail added	
26/07/2023	DRAFT	BCA Landscape			
03/08/2023		BCA Landscape	STAGE 4 ISSUE		
06/01/2025		DRAFT for internal check and review			
06/01/2025		DRAFT for internal check and review			
19/08/2025	P04	BCA Landscape	For Construction	P04	
19/08/2025		BCA Landscape	For Construction	P05	Specification updated with Revision
20/08/2025	BCA-ATK-XX-SP-LA-423001	BCA Landscape	P06		
20/08/2025	BCA-ATK-XX-SP-LA-423001	BCA Landscape	P06	FOR CONSTRUCTION	

To be read with preliminaries/ general conditions.

110 Fabrication

1. **Standard:** To BS 1186-2.
2. **Sections:** Accurate in profile and length, and free from twist and bowing. Formed out of solid unless shown otherwise.
 - 2.1. **Machined surfaces:** Smooth and free from tearing, wooliness, chip bruising and other machining defects.
3. **Joints:** Tight and close fitting.
4. **Assembled components:** Rigid. Free from distortion.
5. **Screws:** Provide pilot holes.
 - 5.1. **Screws of 8 gauge (4 mm diameter) or more and screws into hardwood:** Provide clearance holes.
 - 5.2. **Countersink screws:** Heads sunk at least 2 mm below surfaces visible in completed work.
6. **Adhesives:** Compatible with wood preservatives applied and end uses of timber.

120 Cross section dimensions of timber

1. **General:** Dimensions on drawings are finished sizes.
2. **Maximum permitted deviations from finished sizes**
 - 2.1. **Softwood sections:** To BS EN 1313-1:-
 - 2.1.1. Clause 6 for sawn sections.
 - 2.2. **Hardwood sections:** To BS EN 1313-2:-
 - 2.2.1. Clause 6 for sawn sections.
 - 2.2.2. Clause NA.3 for further processed sections.

130 Preservative treated wood

1. **Cutting and machining:** Completed as far as possible before treatment.
2. **Extensively processed timber:** Retreat timber sawn lengthways, thickened, planed, ploughed, etc.
3. **Surfaces exposed by minor cutting and/ or drilling:** Treat as recommended by main treatment solution manufacturer.

140 Moisture content

1. **Wood and wood based products:** Maintained within range specified for the component during manufacture and storage.

210 Laminated plastics veneered boards/ panels

1. **Fabrication:** To British Laminated Plastics Fabricators Association Ltd (BLF) fabricating standards.
2. **Balancing veneer:** From decorative veneer manufacturer and of similar composition. Applied to reverse side of core material.
3. **Finished components:** Free from defects, including bow, twist, scratches, chipping, cracks, pimpling, indentations, glue marks, staining and variations in colour and pattern.
4. **Joints visible in completed work:** Tight butted, true and flush.

250 Finishing

1. **Surfaces:** Smooth, even and suitable to receive finishes.
 - 1.1. **Arrises:** Eased unless shown otherwise on drawings.

2. **End grain in external components:** Sealed with primer or sealer applied as per manufacturers recommendations and allowed to dry before assembly.

Ω End of Section



Specification created using NBS Chorus