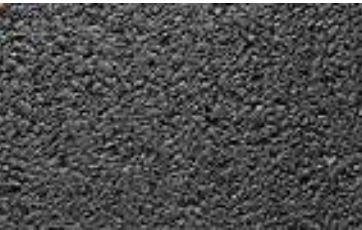


Outline Landscape Specification: Paving systems

Access roads and car park (excluding bays):

Material: Asphalt Concrete (Vehicular Loading)
Colour: Black



Outdoor teaching areas:

Material: Concrete block paving
Manufacturer: Tobermore
Product: Atro
Dimensions: 220 x 55
Laying Pattern: Stretcher
Colour: Cool palette platinum



Car park bays:

Material: Porous asphalt
Colour: Black



Circular feature spaces in Forest school:

Material: Contemporary concrete block paving
Manufacturer: Tobermore
Product: Sienna Sett
Dimensions: 100 x 100, circle kit to centre
Laying Pattern: Concetric circular
Colour: Sandstone



Shared Surface areas, Refuse Area Approach & rear of SSC Building:

Material: Asphalt Concrete (pedestrian with occasional vehicular overrun)
Colour: Black



Forest School path

Material: Self-binding gravel
Manufacturer: Breedon
Product: Breedon Golden Amber self-binding gravel
Colour: Golden Amber
Finish: Well compacted following laying



SSC, Reception, Year 1&2 breakout areas:

Material: Permeable Resin bound aggregate
Manufacturer: Sureset
Colour: Multi-colour: Winter Pearl, Tuscan Terracotta, Forest Green, Buttermilk - Colours TBC



Safety Surface:

Material: EPDM rubber safety surfacing
Manufacturer: DCM Surfaces
Product: EPDM rubber safety surfacing
Colour: Purple (TBC)
Finish: Play graphics: race track x 2, animal track wayfinding trail, woodland animals



Key circulation paths:

Material: Contemporary concrete block paving
Manufacturer: Tobermore
Product: Hydropave Fusion
Dimensions: 200 x 300 x 60
Laying Pattern: Stretcher
Colour: Silver grey



Parking Bay beneath existing tree:

Material: Permeable Cellular Grass Paving
(Refer to civil engineering design)



Note: All images and products are indicative and subject to further development and liaison with key stakeholders in subsequent design stages.

Outline Landscape Specification: Paving, kerb & edging systems

Cycle store / Refuse store / Shed base::

- Material: Reinforced concrete paving (in situ)
- Design: Structural engineer design
- Colour: Natural
- Finish: Brushed with smooth edge / mounting areas



Tactile paving (road crossings):

- Material: Concrete tactile paving
- Manufacturer: Marshalls
- Product: Blister paving
- Dimension: 400x400x65mm
- Colour: Buff



Pedestrian edging & paving demarcation:

- Material: Concrete block
- Manufacturer: Tobermore
- Product: Fusion
- Dimensions: 200 x 100 x 80
- Colour: Graphite / Silver



Pedestrian edging:

- Material: Pre-cast concrete edging
- Manufacturer: Marshalls
- Product: Flat top edging
- Dimensions: 50 x 250 mm
- Colour: Natural



Vehicular kerbing:

- Material: Pre-cast concrete kerb
- Manufacturer: Marshalls
- Product: HB2 British Standard Kerb
- Colour: Natural
- Dimension: 125 x 255 mm
- Including dropper units, centre stones, quadrants, angles and transitions.



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Outline Landscape Specification:

Refuse store & Secure Cycle Stores:

Material: Galvanied steel frame, FSC timber cladding
Manufacturer: Falco
Product: Bespoke design based upon Falco Falcolock 500
Dimensions: As shown External General Arrangement



Woodland Den

Material: Pressure-treated timber
Manufacturer: Stilted Sensory Teepee
Product: Product Code: 1720623100
Dimensions: L1400 x D1200 x H1400mm.
Finish: Natural timber



Storage Shed:

Manufacturer: Ace Sheds or similar approved
Product: TBC
Dimensions: 1m x 1.5m
Colour: Natural Timber
Finish: Pressure treated timber, planed and sanded



Timber raised Edging (rear or SSC building)

Material: Pressure treated modular timber planter
Manufacturer: Jacksons Fencing
Product: Wooden Garden Sleepers
Finish: Jacksons proprietary pressure treatment
Dimensions: Heights variable: 200, 400, 600mm
Note: Derogation for use of timber to be agreed with WSCC



Cycle stands (secure shelters):

Manufacturer: Broxap
Product: Sheffield cycle rack
Finish: Galvanised



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Outline Landscape Specification: Fencing and boundary features

Secure Line fencing:

- Material: Steel welded mesh security fencing and gates
- Manufacturer: CLD
- Product: Securus
- Dimensions: 2.4m high
- Colour: Black
- Note: Flat fence top with no projecting wires.
Wildlife passages 130x130mm as Ecologist recommendations.



Internal subdivision within schools:

- Manufacturer: Jackson Fencing
- Product: Height: 1200mm above ground
- Dimensions: Rounded Top Posts: 100x125x1875mm, Rails: 50x100x1500mm
- Material: Jacksons proprietary treated softwood
- Fixing: Posts set into concrete pocket foundations



Screening to boundary to SCC Forest School Area:

- Material: Willow and Bamboo screening
- Manufacturer: TBC
- Product: TBC
- Dimensions: 2m height
- Colour: Natural
- Fixing: Fixed to fencing panels/posts. No projection above fence top.



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Outline Landscape Specification: External FF&E & Miscellaneous

Timber curved seating (SSC Forest School):

Material: FSC NVD Hardwood
Manufacturer: Woodscape
Product: Type 2 bench: curved bench
Dimensions: Various heights, radii, lengths



Rustic timber benches (SCC Forest School):

Manufacturer: TBC
Product: Rustic timber benches
Colour/Finish: Natural
Fixing: Anchored to concrete foundation.
Dimensions: 450 x 450 x 1500mm



Bollards (Car Park Area):

Material: FSC hardwood
Manufacturer: Broxap
Product: FSC hardwood bollard
Dimensions: Round 165mm x 1500mm
Finish: Planed & sanded
Features: Rebate with reflective band
Note: Not shown on plans - allowance x10 - Locations TBC



Note: Specification for Fire pit to be agreed with school and WSCC at stage 4.

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Outline Landscape Specification: Soft Landscape

General:

Materials, goods and workmanship shall be the best quality of their respective kinds, and those for which there is a British Standard or Code of Practice shall comply therewith. Planting shall not include species that are poisonous or have thorns. In regard to the timing of Horticultural Works, planting shall be carried out between November and March subject to suitable weather conditions. Bulbs shall be planted during October. Suitable weather conditions shall mean when the ground is moist but not wet and workable. Planting shall be suspended during periods of drought, when soil is frost-bound or waterlogged, during persistent drying cold winds or during any other conditions unfavourable to successful establishment.

Origin of Plants, Certification and Labelling:

All plants shall have been obtained from a reputable nursery and grown within the British Isles for at least one growing season if stock of local provenance is not available. The contractor shall provide a Certificate of Local Provenance and confirmation that all plants supplied comply with the specification. Plant samples shall be approved on site by the Landscape Architect prior to planting. In all grass/perennial planting the collection will be tagged with waterproof durable labels as specified by the Landscape Architect.

Subsoil

Subsoil across the site to be free of compaction and any physical contamination to 300-450mm depth.

Topsoil

Imported topsoil for amenity shrub/grass/herbaceous planting areas, tree planting areas and amenity grass areas to conform with BS3882 (multi-purpose classification, soil textural class to B3882 Figure 1: Sandy loam). Topsoil to be free from contamination such as subsoil, stone, hardcore, rubbish or material from demolition work

Topsoil to be spread and gently firmed in layers, each of 150mm maximum depth, to an overall depth after firming and settlement of 400mm for planting areas and 150mm for amenity grass and wildflower areas.

Peat Free Compost

Documentary evidence of the use of peat free soil materials must be supplied from nursery growers and suppliers for plants that are not soil grown. Organic composted material must be graded 25mm and free from biodegradable material. Prior to cultivation, compost to be applied at a rate of a 50-75mm thick layer to all amenity planting areas.

Mulch

The mulch shall comprise matured British conifer bark with an even particle size distribution of 15 – 65mm with no dust or fines and less than 5% wood content. The mulch shall be matured for 16 weeks and naturally heat treated where temperatures have exceeded 50 degrees Celsius for a minimum period of 14 continuous days followed by a period of stabilisation. The pH shall be between 4.5 and 5.8. The mulch shall be pest, disease and weed free and free of Methyl Bromide contamination. Samples will be submitted for consideration and approval prior to use on site. Recycled content to be 100% to BS EN ISO 14021.

Mulch to be applied to a depth of 75mm minimum to all planting areas following planting and at the end of the rectification period.

Planting - general

Condition of all planting to be materially undamaged, sturdy, healthy and vigorous Appearance to be of good shape and without elongated shoots. Plant stock to be grown in a suitable environment and hardened off prior to planting; free from pests, diseases, discoloration, weeds and physiological disorders. Root system to be in good condition, balanced with a branch system.

Plants to be specified and supplied according to The National Plant Specification, with species true to name. Name, forms, dimensions, provenance and other criteria to be as scheduled and defined in the National Plant Specification (available on CS Design Software Limited's website).

Native plants to be sourced from local provenance. Non-native plants grown in the United Kingdom for at least one growing season.

Tree pits in grass or shrub areas: Size and Construction

Pits shall be 600 mm wider than the diameter of the rootball with a minimum size of 900 x 900 mm. Minimum depth to be 750 mm. Where necessary the depth shall be increased to accommodate the depth of the rootball and to obtain the correct planting level. The bottom of the pit shall be broken-up to 150 mm deep, and the sides scarified with a fork.

Tree Support System & Accessories

All individual tree planting in soft landscape areas to be appropriately supported by long double chestnut staking and natural biodegradeable tree tie.

Each tree to include large capacity irrigation system with fixed grid inlet, such as GreenBlue Urban .

Buffer Planting:

All plants shall comply with the National Plant Specification. They shall be well grown, bushy, healthy and well established nursery stock of good form, hardy, free from defects, furnished with a fibrous root system exactly true to name as specified. Hedge plants will be planted in two staggered rows and kept regularly clipped at the required height.

All buffer/hedge transplant/whip plant stock to be protected with water resistant plastic-free biodegradeable tree shelter guards.

Amenity Planting

Shrub planting pits to be wide enough to accommodate roots when fully spread and 75 mm deeper than root system. Pit base to be loosened to a depth of 150mm, incorporating 75mm compost. Plants layout to be random, not geometric. Spacing, layout and density to be as shown on detailed planting plans and schedules.

Seeding/Turfing

Growth and development to be healthy, vigorous grass sward, free from the visible effects of pests, weeds and disease. Appearance to be a closely knit, continuous ground cover of even density, height and colour

Origin of each species to be locally collected (as defined in Flora Locale's Code of practice for collectors, growers and suppliers of native flora).

Amenity grass seed to comply with EC purity and germination regulations.

Wildflower seed to comply with Flora Locale's 'Code of practice for collectors, growers and suppliers of native flora'.

Maintenance

Watering to be carried out immediately after planting/seeding/turfing and as necessary to ensure the establishment and continued thriving of all seeding/turfing and all types of planting.

Any failures of seeding/turfing or any types of planting to be replaced during 12 months defects period; to match size of adjacent or nearby plants of same species or match original specification, whichever is the greater. To be made good during the next suitable planting season, (including following the end of the rectification period if the next suitable planting season is after this period).

12months defects period. After this it becomes often becomes the responsibility of the school / local authority. (Time period is subject to the overall contract agreement so await further advice on whether time periods need to be added.

Weed control to adhere to a strict chemical-free management protocol, with control methods limited to alternative methods such as mechanical and hand removal; and tolerance of some weeds except hazardous weeds or those affecting the establishment of adjacent plants. No herbicide or pesticide use is permitted on the school site, with the sole exception of any species listed on Schedule 9, Part II of the Wildlife and Countryside Act 1981 if they are undergoing specialist control management - any such areas to be protected from access by site users.

Seeded/turfed areas to be cut as applicable to the type of seeding/turfing to ensure establishment.

A full and comprehensive maintenance schedule is to be prepared for all existing and proposed landscape areas (to include applicable training), to be handed over to the Academy Trust as part of the Soft Landings process.



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Indicative Planting Species List

Tree Planting

Form:	Standard
Girth (cm):	8-10
Height (cm):	250-300
Root Condition:	Rootball
Clearstem(cm):	175-200
Acer campestre	(Field Maple)
Betula pendula	(Silver Birch)
Carpinus betulus	(Hornbeam)
Prunus 'Accolade'	(Cherry 'Accolade')
Quercus robur	(English Oak)

Sensory / Amenity Planting

Ornamental Grasses, Herbaceous Perennial & Ferns:
Planted in single species groups of 3-5 no.
2-3L Containers

Calamagrostis × acutiflora 'Karl Foerster'
Carex morrowii 'Ice Dance'
Miscanthus sinensis 'Kleine Fontäne'
Stipa tenuissima

Echinacea purpurea 'Magnus'
Helenium 'Moerheium Beauty'
Phlomis russeliana
Salvia officinalis 'Purpurascens'
Verbena bonariensis

Hosta 'Blue Mouse Ears'
Polystichum aculeatum

Buffer Planting

Specimen Shrubs:
Planted in single species groups of 1-3 no.
3-5L Containers

Abelia × grandiflora 'Kaleidoscope'
Choisya ternata
Cornus sanguinea 'Midwinter Fire'
Euonymus fortunei 'Emerald Gaiety'
Genista lydia
Hebe 'Midsummer Beauty'
Lavandula angustifolia 'Hidcote'
Philadelphus 'Snowbelle'



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Indicative Planting Species List

Amenity Grass

Emorsgate Seeds EG22 Strong Lawn Grass Mixture
or equivalent
Seed @ 25g/m² or Turf

- Lolium perenne

Festuca arundinacea

Cynosurus cristatus

Festuca rubra rubra

Phleum bertolonii

Trifolium repens

Medicago lupulina

Plantago lanceolata

Achillea millefolium

Centaurea nigra

Rhinanthus minor
- Silene latifolia

Silene dioica

Centaurea cyanus

Glebionis segetum

Agrostemma githago

Wildflower Meadow

Emorsgate Seeds EM3 Special General Purpose Meadow Mixture
or equivalent
Seed @ 4g/m²

- Wildflower (20%) -

Achillea millefolium

Agrimonia eupatoria

Betonica officinalis

Centaurea nigra

Centaurea scabiosa

Daucus carota

Filipendula ulmaria

Galium album

Galium verum

Geranium pratense
- Knautia arvensis

Leucanthemum vulgare

Medicago lupulina

Onobrychis viciifolia

Poterium sanguisorba

ssp sanguisorba

Primula veris

Prunella vulgaris

Silaum silaus

Silene dioica

Silene flos-cuculi
- Silene vulgaris

Taraxacum officinale

Vicia cracca

-Grasses (80%) -

Agrostis capillaris

Cynosurus cristatus

Festuca rubra

Phleum bertolonii

Poa pratensis

Note:
Wildflower species listed below excluded from EM3 mixture as they are classified under Category C of the HTA Guide to Potentially Harmful Plants

• Echium vulgare

• Pastinaca sativa

• Ranunculus acris

• Ranunculus bulbosus

• Rumex acetosa



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Outline Landscape Specification: Ecology features

TBC (subject to Ecology requirements)



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Outline Landscape Specification: Standards

Standards

The project is expected to be carried out with due regard to applicable British Standards relevant to the type of project, construction and materials. (The standards listed below are not exhaustive and the latest publication applies where any standard is superceded).

BS 8300 2018 Design of an accessible and inclusive built environment; Part 1: External environment — Code of practice

BS 1722-14 - Fences Part 14: Specification for Open Mesh Steel Panel Fences
BS EN 13438 Paints and varnishes - Powder organic coatings for hot dip galvanised or sherardised steel products

BS 7533 Block pavements / Flag pavements
BS EN 1338 2006 - Concrete paving blocks
BS EN 1339 - Concrete paving flags
BS EN 1340 2003 Concrete kerb units
DD CEN_TS 15209 - Tactile paving surface indicators produced from concrete, clay and stone
BS EN 13108-1-2006 - Asphalt Concrete
BS EN 13108-4-2006 - Hot Rolled Asphalt
BS EN 13108-7-2006 - Porous Asphalt
BS EN 13198 2003 - Precast Concrete
BS EN 12591 2009 Bitumen and bituminous binders - Specifications for paving grade bitumens
BS EN 12271 2006 Surface dressing - Requirements
BS 594987 2015 Asphalt for roads and other paved areas

BS 3882 2015 Specification for topsoil
BS ISO 11277 Soil quality - Determination of particle size distribution in mineral soil material
BS 3998 2010 Tree Work - Recommendations
BS 3936-1 - Nursery stock Part 1 Specification for trees and shrubs
BS 3936-4 - Nursery Stock Part 4 Specification for Forest Trees, Poplars and willows
BS 3936-9 - Nursery Stock Part 9 Specification for Bulbs, Corms, and Tubers
BS 3936-10 - Nursery stock Part 10 Specification for ground cover plants
BS 4428-1989 R2016 Code of practice for general landscape operations
BS 5837 2012 Trees in relation to design, demolition & construciton
BS 8545 2014 Trees from nursery to independence in the landscape – Recommendations

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