

LEGAL AND GENERAL (STRATEGIC LAND NORTH HORSHAM) LIMITED

SPORTS HUB

LANDSCAPE SPECIFICATION

ISSUE: Tuesday, 25 November 2025

REPORT TITLE	Landscape Specification
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Issue Date: Tuesday, November 25, 2025

ITEMS OF SPECIFIC IMPORTANCE TO THE CONTRACTOR RESPONSIBLE FOR THE UNDERTAKING OF GENERAL LANDSCAPE OPERATIONS ON BEHALF OF THE CLIENT UNDER THE TERMS OF THE CONTRACT**General**

- In undertaking their duties, the Landscape Contractor shall be compliant with all schedules, specifications, Maintenance Schedules, British Standards & Health & Safety legislation pertaining to this Contract.
- Non-compliance shall not alleviate the Contractor of their responsibilities under the Contract.
- The Contractor shall take care not to disturb / disrupt / break any underground services during the undertaking of his duties under the Contract.
- Rectification of non-compliant items and making good any damage arising from the undertaking of contractual duties shall be at the Contractors own expense.

Subsoil Preparation

- The subsoil is to be thoroughly de-compacted / aerated / graded prior to the commencement of topsoiling operations.
- The Contractor shall notify David Jarvis Associates (DJA) no less than 2 weeks prior to the commencement of the subsoil operations to allow DJA to attend site and inspect random examples.
- The Contractor shall supply photographic evidence after the sub surface is de-compacted / aerated / graded but prior to topsoiling. This shall be submitted in A4 report format no later than 2 weeks after operations are complete and shall clearly identify the location of each photograph.
- Specified top & subsoil depths are a minimum after settlement.

Plant Selection & Procurement

- Plants are to conform to the plant specification and this specification
- DJA will undertake detailed checks during the construction phase to ensure compliance with the specification. Soft plant materials are therefore to be of the correct size, specification & density.
- Submission of plant material receipts by the Contractor will be declared invalid if supplied plant materials are blatantly undersize. Non-conformities will be identified to the Contractor & rectified at the Contractors own expense prior to payment being authorised by the Contract Administrator.
- Planting to be undertaken during the next available planting season.

Mulch

- Mulch shall be supplied as per the NBS specification (Section: Q31/485A).
- The Contractor shall supply a sample to DJA to approve prior to importing and spreading.
- **Wood chip / over coarse / oversized 'mulch' will not be accepted.**
- A sample is to be retained to compare against subsequent loads.

Maintenance

- Maintenance shall be in accordance with the Landscape Management & Maintenance Plan.
- DJA will undertake ongoing maintenance inspections to ensure the specification standards are being maintained. Of key importance at all times is that:
 - i. The site must be free from litter.
 - ii. Shrub & tree mulched areas are to be maintained as weed free.
 - iii. Grass is to be kept mown.
 - iv. Mulch is to be maintained at the specified thickness (after settlement) and within shrub beds.
 - v. Hard surfaces are to be kept free from weeds, litter and arisings.

Reporting

- The Contractor shall provide a written statement to DJA of work completed in the month passed.

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D20 Excavating and filling**Generally/the site**

110A Site investigation

1. Report: As determined by Engineers details, drawings and specifications in line with the site wide parameter and previously approved information.

145 Variations in ground water level

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

150 Existing services, features and structures

1. Services: Refer to Engineer's drawings.
2. Site features to be retained: Refer to Engineer's drawings.
3. Structures: Refer to Engineer's drawings.

Clearance/excavating

164 Tree roots

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

168 Site clearance

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

170 Removing small trees, shrubs, hedges and roots

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

175 Felling large trees

1. Definition: Girth over 600 mm.
2. Identification: Clearly mark trees to be removed.

3. Safety: Comply with 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. Obtain approval before removing by winching. Do not use other trees as supports or anchors
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.

180 Chipping and shredding

1. General: Permitted, remove arisings from site

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 200 mm.
 - 2.2. Give notice where the depth of topsoil is difficult to determine.
3. Handling: Handle topsoil for reuse or sale in accordance with clause 225.
4. Around trees: Do not remove topsoil from below the spread of trees to be retained.
5. Site storage: Keep separate from excavated sub-soil

221 Treating topsoil

1. Treatment: Apply a suitable translocated non residual herbicide /or hand weeding alone by careful digging or selective scything unless dealing with noxious and invasive non-native plant species listed under government standard guidance. For larger areas of land or for meadow preparation, alternative methods should be considered such as hot foam or hot water systems. In addition, chemicals including glyphosate should not be used in proximity to ancient woodland and ancient woodland buffer zones, waterbodies, ditches, hedgerow or scrub.
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: to Engineer's details
3. Backfill material: to Engineer's details

242 Excavations adjacent to existing backfilled trenches

1. Proximity: When width of undisturbed ground between the two excavations will be less than 1m.
2. Action: Assume that the ground between the trenches is unstable and provide side support accordingly.

248 Backfill to excavations lower than foundation formation level

1. Critical level
 - 1.1. Distance between near faces of foundation and lower excavation less than 1 m: 150mm above foundation formation level
 - 1.2. Otherwise: 150mm above level at which line defined in clause 240 cuts near face of lower excavation
2. Backfill material
 - 2.1. Below critical level: To Engineer's details.
 - 2.2. Above critical level: To Engineer's details.

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.
 - 1.1. Notice (minimum): 5 days
2. Preparation: Just before inspection remove the last 150 mm of excavation. Trim to required profiles and levels.
 - 2.1. Loose material: Remove
3. Seal: Within 4 hours of inspection, seal formations with concrete.

265 Inspecting formations in sand and gravel

1. Notice for inspection (minimum): 5 days
2. Preparation: Just before inspection remove the last 150 mm of excavation. Trim to required profiles and levels and mechanically compact formation.
3. Seal: Within 4 hours of inspection, seal formations with first layer of fill.

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.

320 Recorded features

1. Recorded foundations, beds, drains, manholes, etc.: If no longer used, break out and seal drain ends
2. Contaminated earth: Remove and disinfect as required by Local Authority.

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.

350 Existing watercourses

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

360 Excess excavation

1. Excavation taken wider than required
 - 1.1. Backfill: Obtain instruction from Engineer.
2. Excavation taken deeper than required
 - 2.1. Backfill: Obtain instruction from Engineer.

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: 500mm
 - 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 Stockpile in temporary storage heaps to be agreed with the Contract Administrator .

415 Excavated topsoil removal

1. General: Remove from site to an alternative area as determined by the Contract Administrator.

420 Topsoil storage heaps

1. Location: To be agreed with the Contract Administrator.
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 /or hand weeding alone by careful digging or selective scything unless dealing with noxious and invasive non-native plant species listed under government standard guidance. For larger areas of land or for meadow preparation, alternative methods should be considered such as hot foam or hot water systems. In addition, chemicals including glyphosate should not be used in proximity to ancient woodland and ancient woodland buffer zones, waterbodies, ditches, hedgerow or scrub.

441 Surplus subsoil

1. Excavated material: Stockpile in temporary storage heaps.
2. Retained material: Spread and level surplus subsoil on site.
 - 2.1. Locations: To be agreed with the Contract Administrator.
 - 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.

457 Pumping

1. General: Do not disturb excavated faces or stability of adjacent ground or structures.
2. Pumped water: Discharge without flooding the site or adjoining property.
3. Sumps: Construct clear of excavations. Fill on completion.
 - 3.1. Locations: Submit proposals

460 Permanent drainage system

1. Disposal of water from the excavations through system: To be confirmed.

Q10 Kerbs/ edgings/ channels/ paving accessories**Types of kerbs/edgings and channels**

110A Timber edging To self-binding gravel paths

1. Description:: See drg 2898-5-5-SUR-0002.

112 Precast concrete To block and asphalt concrete paving surfaces

1. Description:: As determined by Engineer's drawings and specifications.

Roads/paving accessories/ marking/ demarcation

395 Road and Parking Demarcation

1. Type: To engineer's specification

Laying

510 Laying kerbs, edgings and channels Precast concrete kerbs

1. Generally:: To Engineer's details and specification.

510A Laying kerbs, edgings and channels Timber edging

1. Generally:: To Engineer's details and specification.

520 Adverse weather

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

530 Concrete for foundations, races and haunching

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

620 Accuracy

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

Q20 Granular sub-bases to roads/ pavings

To be read with preliminaries/ general conditions.

110 Thicknesses of sub-base/ subgrade improvement layers

1. Thicknesses: See sections: Q26 Special surfacing/paving's for sport/general amenity. All other surfacing refer to Engineer's specification and details..

130 Herbicides

1. Type: Residual - Contractor's choice
2. Application: To subgrade of footpath, cycle track, MUGAs, and artificial sports surfaces.

140 Excavation of subgrades

1. Final excavation to formation or sub formation level: Carry out immediately before compaction of subgrade.
2. Soft spots and voids: Give notice.
3. Old drainage and service trenches: Excavate to remove soft or damaged 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.

145 Preparation and compaction of subgrades

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

211 Granular material For asphalt concrete paving, block paving and self-binding gravel

1. Description: As determined by Engineer's drawings and specifications.

230 Placing granular material generally

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

250 Laying granular sub-bases

1. Generally: As determined by Engineer's drawings and specifications.

310 Accuracy

1. Permissible deviation from required levels, falls and cambers (maximum)
 - 1.1. Subgrades
 - 1.1.1. Footways and recreation areas: ± 20 mm.
 - 1.2. Sub-bases
 - 1.2.1. Footways and recreation areas: +10 -30 mm

315 Accuracy for sub-bases to sports surfacing

1. Generally:: As determined by specialist sports contractor drawings and specifications.

330 Cold weather working

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

340 Protection

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

Q22 Asphalt roads/ pavings**Types of paving**

115 Asphalt concrete paving To footpaths

1. Description: As determined by Engineer's drawings and specifications.

170B Proprietary paving To cycle track

1. Description: As determined by On track drawings and specifications.

175A Proprietary pedestrian paving To MUGAs

1. Description: As determined by engineers drawings and specifications.

Preparatory work/ requirements

220 Bituminous materials generally

1. Suppliers' names: As determined by Engineer's drawings and specifications.

Laying

310 Laying generally

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

320 Adverse weather

1. Frozen materials: Do not use.
2. Suspend laying
 - 2.1. During freezing conditions
 - 2.2. If the air temperature reaches 0°C, or in calm dry conditions -3°C, on a falling thermometer.
 - 2.3. Hot rolled asphalt: During periods of continuous or heavy rain or if there is standing water on the base.

330 Levels

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

340 Flatness/ Surface regularity

1. Generally: As determined by Engineer's drawings and specifications.

345 Accuracy for bases beneath sports surfacing

1. Generally: As determined by engineers drawings and specifications.

351 Contractor's use of pavements

1. Preparation for final surfacing
 - 1.1. Timing: Defer laying until as late as practicable.
 - 1.2. Immediately before laying final surfacing: Clean and make good the base/ binder course. Allow to dry.
 - 1.3. Adhesion: Tack coat to BS 434-1 or BS EN 13808
 - 1.3.1. Application rate: As manufacturer's recommendation
 - 1.3.2. Accuracy: Uniform, without puddles.
 - 1.4. Finishing: Allow emulsion to break completely before applying surface.

Completion

390 Documentation

1. Standard: BS EN 13108-1
 - 1.1. Declaration of conformity: Submit.
2. Number of copies: 3
3. Submission: Two weeks prior to date when Contractor expects work to be complete

395 Slip resistance testing

1. Surfaces to be tested: cycle tracks, cycleways, footpaths and MUGAs
 - 1.1. Surface condition: Dry and wet
2. Timing: As agreed with contract administrator
3. Period of notice (minimum): 3 working days.
4. Test standard: To BS 1134
 - 4.1. Testing authority: A UKAS accredited laboratory
 - 4.2. Report: Submit.
 - 4.2.1. Format: As required under BS 7976

Q23 Gravel/ hoggin/ woodchip/ resin bound roads/ pavings/ overlays**Types of surfacing**

110 Self-binding gravel

1. Description: See drg 2898-5-5-SUR-0002

Refer to engineers drawings for material specification and build up.

Laying

310 Timber edging

1. Softwood board
 - 1.1. Generally: See drg. 2898-5-5-SUR-0002.

325 Blinding to sub-base

1. Type: As determined by Engineer's drawings and specifications.
2. Laying: Compact. Seal interstices. Provide free drainage.
3. Compacted thickness: 25 mm

330 Herbicide to paving Q23/

1. Description: As per Q20 clause 130
2. Type: Suitable for the application, location and conditions of use.
3. Weeds and moss: Grub up.

340 Laying generally

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

350 Cold weather working

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

360 Drainage falls

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

380 Laying granular surfaces in pedestrian areas and cycle tracks

1. Permissible deviation from required levels, falls and cambers (maximum): ± 12 mm.

-
2. General: Spread and level in 100 mm maximum layers. As soon as possible, compact each layer.
 3. Dry weather: Lightly water layers during compaction.

390 Protection from traffic and plant

1. Paved areas: Restrict access to prevent damage.

Q28 - Topsoil and soil ameliorants**System outline**

110A Naturally Occurring Topsoil System to all Areas

GENERAL TOPSOILING AND TREE PIT PREPARATION COMPLETED BY THE SITE CIVILS TEAM AMELIORANTS AND ACCESSORIES ARE INCLUDED IN THE SOFTWORKS PACKAGE (REFER TO SECTION Q31 FOR TREE PIT AMELIORANTS).

1. Topsoil: Site sourced topsoil to BS 3882.
2. Ameliorants: Sanitized and stabilized PAS 100 compost.
3. Accessories: General fertiliser & pre-seeding fertiliser.

Products

300 Preparation materials generally

2. Purity: Free of pests and disease.
3. Foreign matter: On visual inspection, free of fragments and roots of aggressive weeds, sticks, straw, subsoil, pieces of brick, concrete, glass, wire, large lumps of clay or vegetation, and the like.
4. Contamination: Do not use topsoil contaminated with subsoil, rubbish or other materials that are:
 - 4.1. Corrosive, explosive or flammable.
 - 4.2. Hazardous to human or animal life.
 - 4.3. Detrimental to healthy plant growth.
5. Subsoil: In areas to receive topsoil or planting media, do not use subsoil contaminated with the above materials.
6. Objectionable odour: None.
7. Give notice: If any evidence or symptoms of soil contamination are discovered on the site or in topsoil or planting media to be imported.

360 Sanitized and stabilized composted materials certified to PAS 100

5. Standard: In accordance with PAS 100
6. Source: Contractor's choice
 - 6.1. Product reference: Contractor's choice
7. **Horticultural parameters**
 - 7.1. pH (1:5 water extract): 7.0-8.7
 - 7.2. Electrical conductivity (maximum, 1:5 water extract): 200 mS/m
 - 7.3. Moisture content (m/m of fresh weight): 35-55%.
 - 7.4. Organic matter content (minimum): 25%
 - 7.5. Grading (air dried samples): 99% passing 25 mm and 90% passing 10 mm screen mesh apertures
 - 7.6. Carbon:Nitrogen ratio (maximum): 20:1.
8. Texture: Friable.
9. Objectionable odour: Not permitted.

401 Organic fertilizers

2. Description: All planted areas

-
3. Manufacturer/ source: Submit proposals
 - 3.1. Product reference: Submit proposals
 4. Standard: In accordance with the Fertilizer Industry Assurance Scheme (FIAS)
 5. Purpose: Establishment fertilizer
 6. Type: Seaweed extract Blood and bone
 7. Availability to plants: Slow-release

Execution

605 Site investigation

1. Report: See section D20.

610 Topsoil analysis

1. Soil to be analysed: Imported topsoil and topsoil stockpile.
2. Soil analyst: Contractor's choice
3. Samples: Collect in accordance with BS 3882.
4. Submit
 - 4.1. Declaration of analysis: In accordance with BS 3882, clause 6 and Table 1.
 - 4.2. Additional analysis: Chemical analysis, Chemical contaminants, Phytotoxic and CLEA elements
Potentially toxic elements (PTEs)
 - 4.3. Report detailing soil analyst's recommendations.

630 Documentation for imported topsoil

1. Description: For all imported topsoil.
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: 3

635 Documentation for compost and composted materials

1. Description: For imported soil improvers.
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: 3

650 Notice

1. Give notice before
 - 1.1. Setting out.
 - 1.2. Spreading topsoil.
 - 1.3. Applying herbicide.
 - 1.4. Applying fertilizer.
 - 1.5. Visiting site during maintenance period.
2. Period of notice: 3 working days

655 Mechanical tools

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

660 Grading subsoil for:

1. Description: Grassed areas
2. Standard: In accordance with BS 8601.
3. General: Grade to smooth flowing contours to achieve specified finished levels of topsoil.
4. Areas of thicker topsoil: Excavate locally.
5. Avoid compaction.
6. Excess subsoil: Remove.

665 Subsoil surface preparation for:

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

675 Preparation of undisturbed topsoil

1. Standard: In accordance with BS 4428.
 - 1.1. Grading and cultivation: Category B
2. Hard ground: Break up thoroughly.
3. Clearing: Remove visible roots and large stones with a diameter greater than 50 mm.
4. Areas covered with turf or thick sward: Plough or dig over to full depth of topsoil.
5. Fallow period (minimum): Two months
 - 5.1. Weed control: At appropriate times treat with a suitable translocated nonresidual herbicide /or hand weeding alone by careful digging or selective scything unless dealing with noxious and

invasive non-native plant species listed under government standard guidance. For larger areas of land or for meadow preparation, alternative methods should be considered such as hot foam or hot water systems. In addition, chemicals including glyphosate should not be used in proximity to ancient woodland and ancient woodland buffer zones, waterbodies, ditches, hedgerow or scrub.

680 Surplus topsoil to be retained

1. Generally: Spread and level on site:
 - 1.1. Locations: As determined by Construction Phase Plan/Site Manager
 - 1.2. Protected areas: Do not raise soil level within root spread of trees that are to be retained.

690 Topsoil storage heaps

1. Where stockpiling is unavoidable, heaps should be tipped loosely and the surface firmed and shaped to shed water.
2. Stockpiles should be sited so as to avoid any risk that muddy water runs off directly or indirectly into watercourses.
3. Location: As determined by Construction Phase Plan/Site Manager
4. Height (maximum): 1.5 m
5. Width (maximum): 3.0 m
 - 5.1. Formation: Loose tip and shape from the side only, without running machinery on the heap at any time.
6. Protection
 - 6.1. Do not place any other material on top of storage heaps.
 - 6.2. Do not allow construction plant to pass over storage heaps.
 - 6.3. Prevent compaction and contamination, by fencing and covering as appropriate.

700 Grading of topsoil

1. Topsoil condition: Reasonably dry and workable.
2. Contours: Smooth and flowing, with falls for adequate drainage.
 - 2.1. Hollows and ridges: Not permitted.
3. Give notice: If required levels cannot be achieved by movement of existing soil.

705 Handling topsoil

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

710 Spreading topsoil on:

1. Description: All grassed and planted areas
2. Standard: In accordance with BS 3882.

3. Temporary roads/ surfacing: Remove before spreading topsoil.
4. Layers
 - 4.1. Depth (maximum): 150 mm.
 - 4.2. Gently firm each layer before spreading the next.
5. Depth after firming and settlement: Grassed areas and marginal planting: 150 mm
Shrub, hedge and ornamental planted areas: 300mm
Tree pits refer to 2989-5-5-VEG-0001-0004
6. Crumb structure: Do not compact topsoil. Preserve a friable texture of separate visible crumbs wherever possible.

715 Loose tipping of topsoil

1. Standard: In accordance with BS 3882.
2. General: Do not firm, consolidate or compact topsoil when laying. Tip and grade to approximate levels in one operation with minimum of trafficking by plant.

718 Final cultivation

1. Description: All grassed areas and planted areas
2. Compacted topsoil: Break up to full depth.
3. Tilth: Loosen, aerate and break up topsoil to a tilth suitable for blade grading.
4. Depth: Grassed areas and marginal planting: 100 mm
Shrub, hedge and ornamental planted areas: 250mm
5. Particle size (maximum): 10mm
6. Timing: Grassed areas and marginal planting: After grading and fertilizing, and within a few days before seeding
Shrub, hedge and ornamental planted areas: Within a few days before planting
7. Weather and ground conditions: Suitably dry.
8. Surface: Leave regular and even.
9. Levels: 25 mm above adjoining paving or kerbs
10. Undesirable material brought to the surface
 - 10.1. Remove visible weeds.
 - 10.2. Remove roots and large stones with any dimension exceeding 50 mm.

720 Finished levels of topsoil after settlement

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

810 Applying compost

1. Description: To shrub, hedge and ornamental planting beds.
2. Application rate for trees and shrubs: 50 mm thick
 - 2.1. Timing: Apply prior to cultivation.

820 Applying organic general fertilizer

1. Description: To shrub, hedge and ornamental planting areas.
2. Application: Spread evenly, carefully incorporating below mulch materials.
 - 2.1. Timing: Immediately before cultivation.
 - 2.2. Application rate: 40 g/m²
 - 2.3. Other requirements: Only apply if necessary following chemical and physical analysis of topsoil.

825 Applying fertilizer to proposed grass areas

1. Description: To amenity grass areas only.
2. Application: Before final cultivation and three to five days before seeding/ turfing.
3. Coverage:
4. Spread evenly, in transverse directions.
 - 4.1. Rate: To manufacturer's recommendations.

845 Applying loose mulch

1. Description: For tree, shrub, hedge and ornamental planting.
2. Timing: Immediately after planting.
3. Preparation: Clear all weeds and ensure that soil is thoroughly moistened, applying water where necessary.
4. Coverage of mulch (minimum)
 - 4.1. Planting beds (depth): 75 mm depth
 - 4.2. Trees: 75 mm depth, a 120mm collar should be left free of mulch to prevent the stems/trunks from rotting.
5. Finished level of mulch: 30 mm below adjacent grassed or paved areas

Completion

905 Applying maintenance fertilizer to soil

1. Description: To shrub, hedge and ornamental planting areas.
2. Duration: Carry out the following operations from completion of seeding/ turfing until the end of the rectification period.
3. Time of year: During April and May
4. Application: Evenly spread, carefully incorporating below mulch materials.
5. Rate: To manufacturer's recommendations

910 Applying maintenance fertilizer to grass swards

1. Description: To amenity grass areas only
2. Duration: Carry out the following operations from completion of seeding/turfing until the end of the rectification period.

-
3. Time of year: March or April
 4. Application: Evenly spread, carefully incorporating below mulch materials.
 5. Rate: To suit soil report recommendations and manufacturer's recommendations

920 Applying mulch

1. Timing: At end of the rectification period
2. Watering: Ensure that soil is thoroughly moistened prior to mulching, applying water where necessary.
3. Planting beds: Re-mulch.
 - 3.1. Depth (minimum): 75 mm
4. Trees: Remulch.
 - 4.1. Depth (minimum): 75 mm. A collar of 10cm should be left clear of mulch to prevent trunks from rotting.

Q30 Seeding/ turfing**General information/requirements**

115 Seeded and turfed areas

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

120 Climatic conditions

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

145 Watering

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

150 Water restrictions

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

160 Notice

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

170 Setting out

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

Preparation

210 Herbicide

1. Description: For wildflower grass.
2. Type: Suitable for suppressing perennial weeds /or hand weeding alone by careful digging or selective scything unless dealing with noxious and invasive non-native plant species listed under government standard guidance. For larger areas of land or for meadow preparation, alternative methods should be considered such as hot foam or hot water systems. In addition, chemicals including glyphosate should not be used in proximity to ancient woodland and ancient woodland buffer zones, waterbodies, ditches, hedgerow or scrub.
3. Timing: Allow fallow period before cultivation.

3.1. Duration: 2 weeks

212 Seed bed cleaning before sowing

1. Description: All grassed areas.
2. Operations: Remove weeds by hand weeding and hoeing. Kill pernicious weeds with selective contact herbicide /or hand weeding alone by careful digging or selective scything unless dealing with noxious and invasive non-native plant species listed under government standard guidance. For larger areas of land or for meadow preparation, alternative methods should be considered such as hot foam or hot water systems. In addition, chemicals including glyphosate should not be used in proximity to ancient woodland and ancient woodland buffer zones, waterbodies, ditches, hedgerow or scrub.

Seeding

311 Grass seed To sports pitches

1. Description: To sports pitches (Refer to DJA Planting Plans)
2. Supplier: Johnsons Sports Seed
amenity@dlf.co.uk
 - 2.1. Mixture reference: J Premier Pitch
3. Application rate: 50 g/m²

312 Wildflower seed mixture To amenity grass areas

1. Description: To amenity grass areas (Refer to DJA Planting Plans)
2. Supplier: Emorsgate Seeds
enquiries@emorsgateseeds.com
 - 2.1. Mixture reference: EM3 Special General Purpose Meadow Mixture
3. Origin of each species (as defined in Flora Locale's Code of practice for collectors, growers and suppliers of native flora): UK origin
4. Application rate: 4 g/m²

312A Wildflower seed mixture To wetland grass areas

1. Description: To wetland grass areas (Refer to DJA Planting Plans)
2. Supplier: Emorsgate Seeds
enquiries@emorsgateseeds.com
 - 2.1. Mixture reference: EM8 Meadow Mixture for Wetlands
3. Origin of each species (as defined in Flora Locale's Code of practice for collectors, growers and suppliers of native flora): UK origin
4. Application rate: 4 g/m²

322 Quality of wildflower seed

1. Description: For all wildflower seed mixtures
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

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

335 Grass sowing season

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

336 Wildflower sowing season

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

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.

Turfing - Not Used**Protecting/cutting**

590 Cleanliness

1. Soil and arisings: Remove from hard surfaces.
2. General: Leave the works in a clean, tidy condition at Completion and after any maintenance operations.

Maintenance

610 Failures of seeding/ turfing

1. Duration: Carry out the following operations from completion of seeding/ turfing until: the end of the rectification period.
2. Defective materials or workmanship: Areas that have failed to thrive.
 - 2.1. Exclusions: Theft or malicious damage.
3. Method of making good: Recultivation and reseeding/ returfing.
4. Timing of making good: Submit proposals

Q31 External planting**General information/ requirements**

112 Site clearance generally

1. General: Remove rubbish, concrete, metal, glass, decayed vegetation and contaminated topsoil.
2. Stones: Remove those with any dimension exceeding 50 mm.
3. Contamination: Remove material containing toxins, pathogens or other extraneous substances harmful to plant, animal or human life.
4. Vegetation: Clear scrub to ground level by flail mowing and remove arisings; retain and protect trees indicated on drawings
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.

120 Climatic conditions

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

125 Times of year for planting

1. Deciduous trees and shrubs: Late October to late March.
2. Conifers and evergreens: September/ October or April/ May.
3. Herbaceous plants (including marginal): September/ October or March/ April.
4. Container grown plants: At any time if ground and weather conditions are favourable.
 - 4.1. Watering and weed control: Provide as necessary.
5. Dried bulbs, corms and tubers: September/ October.
6. Colchicum (crocus): July/ August.
7. Green bulbs: After flowering in spring.
8. Wildflower plugs: Late August to mid November or March/ April.
9. Aquatic plants: May/ June or September/ October.

130 Mechanical tools

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

145 Watering

1. Quantity: Wet full depth of topsoil.
2. Application: Even and without damaging or displacing plants or soil.
3. Frequency: As necessary to ensure establishment and continued thriving of planting.

150 Water restrictions

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

160 Notice

1. Give notice before
 - 1.1. Setting out.
 - 1.2. Applying herbicide.
 - 1.3. Applying fertilizer.
 - 1.4. Delivery of plants/ trees.
 - 1.5. Planting shrubs.
 - 1.6. Planting trees into previously dug pits.
 - 1.7. Watering.
 - 1.8. Visiting site during maintenance period.
2. Period of notice: One week

170 Soil requirements

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

200 Plants/ Trees – general

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

215 Plants/ Trees – specification criteria

1. Name, forms, dimensions, provenance and other criteria: As scheduled and defined in the National Plant Specification (available on CS Design Software Limited's website).

225 Bulbs/ Corms/ Tubers

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

235 Container grown plants/ Trees

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

245 Labelling and information

1. General: Provide each plant/ tree or group of plants/ trees of a single species or cultivar with supplier's labelling for delivery to site, showing:
 - 1.1. Full botanical name.
 - 1.2. Total number.
 - 1.3. Number of bundles.
 - 1.4. Part bundles.
 - 1.5. Supplier's name.
 - 1.6. Employer's name and project reference.
 - 1.7. Plant specification, in accordance with scheduled National Plant Specification categories.
2. Additional information: Submit on request: Country of origin, Date supplied and consignment details or reference, Impact of pest/ disease, Name or designation of rootstock of budded or grafted plants, Potting dates, Propagation method and dates, Type of container.

260 Plant/ Tree substitution

1. Plants/ trees unobtainable or known to be likely to be unobtainable at time of ordering: Submit alternatives, stating:
 - 1.1. Price.
 - 1.2. Difference from specified plants/ trees.
2. Approval: Obtain before making any substitution.

265 Plant handling, storage transport and planting

1. Standard: To CPSE 'Handling and establishing landscape plants'.
2. Frost: Protect plants from frost.
3. Handling: Handle plants with care. Protect from mechanical damage and do not subject to shock, e.g. by dropping from a vehicle.
4. Plant packaging: 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.

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.

Preparation of planting beds/ planting materials

300 Herbicide to clear overgrown beds

1. Description: To clear invasive non-native weeds.
2. Locations: All planting areas.
3. Type: Suitable for suppressing perennial weeds /or hand weeding alone by careful digging or selective scything unless dealing with noxious and invasive non-native plant species listed under government standard guidance. For larger areas of land or for meadow preparation, alternative methods should be considered such as hot foam or hot water systems. In addition, chemicals including glyphosate should not be used in proximity to ancient woodland and ancient woodland buffer zones, waterbodies, ditches, hedgerow or scrub.
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, in accordance with the Environment Agency 'Managing Japanese knotweed on development sites. The knotweed code of practice'.

375 Cultivation

3. Compacted topsoil: Break up to full depth.
4. Cultivation: Loosen, aerate and break up soil into particles of 2-8 mm.
 - 4.1. Depth: 350 mm.
 - 4.2. Timing: Within a few days before planting.
 - 4.3. Weather and ground conditions: Suitably dry.
5. Surface: Leave regular and even.
6. Levels: 50 mm above adjoining lawns.
7. Undesirable material brought to the surface: Remove visible weeds, roots and large stones with any dimension exceeding 50 mm.
8. Soil within root spread of trees and shrubs to be retained: Do not dig or cultivate.

Planting shrubs/ herbaceous plants/ bulbs**400 Random plant layout**

1. Description: To all beds.
2. Spacing: As planting schedule.
3. Density: As planting schedule.

405 Shrub planting pits

1. Timing: Excavate 1-2 days (maximum) before planting.
2. Sizes: Wide enough to accommodate roots when fully spread and 75 mm deeper than root system
3. Pit bottom improvement Not required.

415 Antidesiccant for conifers/ Evergreens

3. Manufacturer: Contractor's choice
 - 3.1. Product reference: Contractor's choice
4. Application: Dip before delivering to site. Spray soon after planting.
 - 4.1. Do not apply in wet or frosty weather.
 - 4.2. Ensure full coverage of underside of foliage.

435 Climbing plants used as ground cover

2. **Planting**
 - 2.1. Canes or other supports: Remove.
 - 2.2. Arrangement: Spread stems.
3. 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.

457 Planting aquatic/ Marginal plant plugs

1. Handling: Keep plants watered and in shade until planted. Do not allow to dry out.
2. Preparation: Remove coarse weeds etc. from planting sites.
3. Planting sites: As drawings.
4. Waterproofing membrane below soil: Do not puncture.
5. Planting: Into a hole to suit plug size and shape. Create a cleft at bottom of hole to improve rooting. Gently firm plant into hole to ensure good root hold into substrate.

470 Formal hedges

1. Shrubs for hedges: Consistent in species, cultivar and clone to ensure a uniform hedge.
2. Planting: In trenches large enough to take full spread of roots. Set out plants evenly.

471 Naturalized hedges

1. Planting: In trenches large enough to take full spread of roots. Set out plants evenly.

480 After planting

1. Watering: Immediately after planting, thoroughly and without damaging or displacing plants or soil.
2. Firming: Lightly firm soil around plants and fork and/ or rake soil, without damaging roots, to a fine tilth with gentle cambers and no hollows.
3. Top dressing: Mulching and top dressing system, as section Q28
 - 3.1. Depth: As Q28

485A Mulching Planting Beds All areas

4. Material: medium grade, well composted bark mulch.
 - 4.1. Purity: Free of pests, disease, fungus and weeds.
 - 4.2. Recycled content: Contractor's choice.
 - 4.3. Particle size: 8-40mm.
 - 4.4. Colour: mid dark brown.
 - 4.5. Manufacturer: Rolawn or equal & approved.
5. Preparation: Clear all weeds. Water soil thoroughly.
6. Coverage: 75 mm depth after settlement.
7. Finished level of mulch at edges: 25 mm below adjacent grassed or paved areas.
8. USE OF NON-APPROVED MATERIALS: (such as wood chip, coarse grade, over-sized mulch): not accepted. Contractor to make good at own expense.
9. APPROVAL: Contractor to submit sample prior to importing and spreading. Sample to be retained for comparison against subsequent loads.
 - 9.1. - Notice period: 2wks prior to spreading.

486 Shrub protection For whips and transplants where rabbit guards are required

1. Manufacturer: Green-tech Limited
sales@green-tech.co.uk
 - 1.1. Product reference: Rainbow Tree-Bio Biodegradable Spiral Tree Guards 160PS1031-PRO
2. Type: Spiral
3. Size: 0.6 m high x 38 mm diameter
4. Colour: Green
5. Support: Single timber stake as clause 535
6. 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

505 Tree pits

1. Sizes: As drawing DJA Details

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: As drawings.
 - 4.1. Treatment: As drawings.
5. Pit sides: Scarify.
6. Backfilling material: Excavated material from tree pit, installed to original soil profiles in accordance with BS 8545 with additional topsoil as required, as section Q28 clause 315

510 Tree pit root barriers

1. Locations: To protect hard surfacing/services lying within a min. 5m radius of the proposed tree and/or as dictated on plan.
2. Manufacturer: Green-tech Limited
sales@green-tech.co.uk
 - 2.1. Product reference: Root Barrier 260 Permeable
3. Thickness: To manufacturer's specification
4. Barrier depth: 600mm min. to suit the depth of adjacent services/utilities/hard surfacing
5. Foil liner: Not required
6. Top of root barrier in relation to finished topsoil level: 10mm above ground level
7. Installation: With sides vertical. Remove all sharp objects adjacent to barrier.

512A Tree irrigation rings

1. Locations: To all tree pits
2. Manufacturer: GreenBlue Urban Ltd
 - 2.1. Contact details
 - 2.1.1. Address: Northpoint
Compass Park
Junction Road
Bodiam
East Sussex
TN32 5BS
 - 2.1.2. Telephone: +44 (0)1580 830800
 - 2.1.3. Web: www.greenblue.com
 - 2.1.4. Email: enquiries@greenblueurban.com
 - 2.2. Product reference: RootRain Civic (RRCIVIC2A)
3. Hose
 - 3.1. Material: PE-HD.
 - 3.2. Colour: Black.
4. Filling tube: PE-HD grille inlet with powder-coated aluminium cap and retainer chain.
5. Type: Perforated plastics irrigation pipe with inlet
6. Pipe diameter: 60 mm
7. Ring diameter: 800 mm
8. Installation

- 8.1. 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.
- 8.2. Top cap of inlet: Protruding slightly above finished surround level.
- 8.3. Backfill material: Carefully compact in layers.

515 Tree pit drainage

1. Locations: All tree planting, as site conditions/adoption authority dictate
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: To be determined on an individual basis
4. Drainage pipes
 - 4.1. Type: Perforated plastics
 - 4.2. Diameter: To Engineer's specification
 - 4.3. Position: Lay around perimeter of pit within aggregate layer.
 - 4.4. Discharge: To Engineer's specification
5. Geotextile filter
 - 5.1. Manufacturer: To Engineer's specification
 - 5.2. Position: Lay over aggregate before installing tree or backfill.
6. Completed pits: Test for free drainage before planting.

526 Underground guying for:

1. Description: For all underground guyed trees
2. Manufacturer: Platipus Anchors Ltd.
info@platipus-anchors.com
 - 2.1. Product reference: Platipus Tree Anchoring System Plati-Mat RH2P
3. Anchoring system: 3 no timber dead-man anchors
4. Installation: Ensure tree is positioned correctly and vertically prior to tightening guy line tensioners.

535 Tree stakes For rabbit guards

1. Stakes: Softwood, peeled chestnut, larch or oak, straight, free from projections and large or edge knots and with pointed lower end.
 - 1.1. Preservative treatment: Not required
2. Stake size (minimum): 30 mm diameter
3. Stake length (minimum): 900 mm (300-400mm below ground)

550 Double staking for

1. Description: For all staked trees
2. Staking
 - 2.1. Position: Either side of tree position and perpendicular to wind direction.
 - 2.2. Driving: Vertically at least 300 mm into bottom of pit before planting.
 - 2.3. Backfilling: Consolidate material around stake.
 - 2.4. Firming: Sufficiently firm to prevent movement of the rootball/ rootstock.

3. Height of stakes: As drawing 2898-5-2-10-DR-2013
4. Horizontal bracing: As drawing 2898-5-2-10-DR-2013
 - 4.1. Fixing: As drawing 2898-5-2-10-DR-2013
5. Ties: As drawing 2898-5-2-10-DR-2013
6. Tying: As drawing 2898-5-2-10-DR-2013
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: As drawing 2898-5-2-10-DR-2013

566 Tree protection

1. Manufacturer: Green-tech Limited
sales@green-tech.co.uk
 - 1.1. Product reference: Tubex Acorn Treeguard - Open Mesh Tree Shelter
2. Type: Round
3. Material: Biodegradable
4. Colour: Black/Green
5. General: Ensure that protection methods do not impede natural movement of trees or restrict growth.

576 Tree pit surfacing – loose fill

1. Surfacing material: Mulch, as section Q28
2. Area: 500mm radius measured from tree stem
3. Depth: 75mm
4. Watering: Water soil thoroughly before laying.
5. Installation: Ensure the base of the tree stem is kept free from loose filled material.

590 Mulching Trees

8. Material: Medium grade bark mulch as planting beds (Q31/485A).
9. Preparation: Clear all weeds. Water soil thoroughly.
10. Coverage: In a circular area of 500 mm radius measured from the tree stem, 75mm depth after settlement, with mulch ring around tree. A 120mm collar should be left free of mulch to prevent the stems/trunks from rotting.
11. Finished level of mulch: 25 mm below adjacent grassed or paved areas.

Protecting/ maintaining/ making good defects**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: In accordance with the agreed maintenance schedule

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

6. Weed control: Maintain weed free area around each tree and shrub.
 - 6.1. Diameter (minimum): The larger of 1 m or the surface of original planting pit.
 - 6.2. Keep planting beds clear of weeds: By maintaining full thickness of mulch
7. 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.
8. Precautions: Ensure that trees and shrubs are not damaged by use of mowers, nylon filament rotary cutters and similar powered tools.
9. Firming up: Gently firm loosened soil around trees/ shrubs. Straighten leaning trees/ shrubs.
10. Trees: Spray crown when in leaf during warm weather.
 - 10.1. Timing: After dusk.
11. Tree accessories: Check condition of stakes, ties, guys, guards and irrigation and ventilation systems.
 - 11.1. Broken or missing items: Replace.
 - 11.2. Loose stakes: Re-firm in the ground or replace as necessary to provide support to the tree.
 - 11.3. Loose guys: Re-firm anchor points and adjust as necessary to provide support to the tree.
 - 11.4. Ties: Adjust to accommodate growth and prevent constriction or abrasion.
 - 11.5. Damage to bark: Cut back neatly with sharp knife. Prevent further damage.
 - 11.6. Frequency of checks: As schedule
12. Firming Up: Firming up: Gently firm loosened soil around trees / shrubs. Straighten leaning trees / shrubs.
 - 12.1. Timing: After dusk.
13. Watering: As required for healthy establishment, depending on weather conditions

760 Planting maintenance – pruning

6. General: Prune to promote healthy growth and natural shape.
 - 6.1. Dead, dying, diseased wood and suckers: Remove.
 - 6.2. Timing: In accordance with the agreed maintenance schedule
 - 6.3. Trees: Generally:
 - 6.3.1. Decurrent: Favours multiple shoots producing a rounded or spreading crown.
 - 6.3.2. Excurrent: Favours strong apical dominance producing a upright crown.
7. Arisings: Remove.

780 Maintenance instructions

3. 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): 75 mm
5. Trees: Remulch.
6. Depth (minimum): 75 mm

Q35 Landscape maintenance**Generally****105 Maintenance objectives**

1. Generally: As covered by the North Horsham Sports Hub LEMP Landscape and Ecological Management Plan

Q40 Fencing**Fencing systems**

110 Ball Stop - Metal mesh panel fencing systems Type A

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
 - 1.1.3.Web: www.jacksons-security.co.uk
 - 1.1.4.Email: sales@jacksons-fencing.co.uk
 - 1.2. Product reference: Tubular Fencing System (System 1, heavy duty)
2. Category: Sports fencing.
3. Posts: 60.3 mm diameter.
4. Post foundations: Set in concrete.
5. Rails: 60 x 40 mm.
6. Panels: 50 mm galvanized chain link.
7. System accessories: None.
8. Fencing system: Tubular fencing system without a top rail.
9. Height: 3.6m
10. Posts and rails: Galvanized and powder-coated, green RAL 6005.
11. Chainlink/ welded mesh: Galvanized and plastic-coated, green RAL 6005.
12. Diameter: 60 mm.

430A Timber post and rail fencing

1. Generally: As per 2898-5-5-BND-0002

430B Timber knee rail

1. Generally: As per 2898-5-5-BND-0005

430C AGP - Metal mesh panel fencing systems (B)

1. Generally: As per drg 2898-5-2-10-DR-2005 to 2007
2. Description: AGP Fencing
3. Manufacturer: Jacksons Fencing
 - 3.1. Contact details
 - 3.1.1.Address: 209 Stowting Common
Ashford
Kent
TN25 6BN
 - 3.1.2.Telephone: 0800 408 4757
 - 3.1.3.Web: www.jacksons-security.co.uk
 - 3.1.4.Email: sales@jacksons-fencing.co.uk

3.2. Product reference: EuroGuard® Rebound Fencing

4. Category: 1.
5. Posts: 80 x 60 mm rectangle hollow section (RHS) with anti-tamper connectors.
6. Post foundations: Over length set in concrete.
7. Panels: 50 x 66.6mm mesh at the base to 1200mm then reverts to 200 x 50mm above up to 2030mm.
8. Finish/ Colour: Galvan zinc alloy coated and powder coated to BS EN 13438 RAL 6005 Green or BS12C39 Orchard / RAL 120 40 30
9. Height: 4.5m high, 2m high around goal ends and 1.2m high around spectator area
10. Method of setting posts: In concrete to manufacturer's recommendations
11. Accessories: Matching gates as per drg 2898-5-2-10-DR-2005 to 2007

430C MUGA - Metal mesh panel fencing systems (C)

1. Generally: As per drg 2898-5-2-10-DR-2005 to 2007

2. Description: MUGA Fencing

3. Manufacturer: Jacksons Fencing

- 3.1. Contact details

- 3.1.1. Address: 209 Stowting Common
Ashford
Kent
TN25 6BN

- 3.1.2. Telephone: 0800 408 4757

- 3.1.3. Web: www.jacksons-security.co.uk

- 3.1.4. Email: sales@jacksons-fencing.co.uk

- 3.2. Product reference: EuroGuard® Rebound Fencing

4. Category: 1.
5. Posts: 80 x 60 mm rectangle hollow section (RHS) with anti-tamper connectors.
6. Post foundations: Over length set in concrete.
7. Panels: 50 x 66.6mm mesh at the base to 1200mm then reverts to 200 x 50mm above up to 2030mm.
8. Finish/ Colour: Galvan zinc alloy coated and powder coated to BS EN 13438 RAL 6005 Green or BS12C39 Orchard / RAL 120 40 30
9. Height: 3m high
10. Method of setting posts: In concrete to manufacturer's recommendations
11. Accessories: Matching gates as per drg 2898-5-2-10-DR-2005 to 2007

Execution

710 Installation generally

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

715 Competence

1. Operatives: Contractors must employ competent operatives.
2. Qualifications: Submit certification of training.
 - 2.1. NHSS Sector Scheme 2A sub categories: (a) (b)
 - 2.2. NHSS Sector Scheme 2C sub categories: Not required

720 Setting posts in concrete

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

770 Site cutting of wood

1. General: Kept to a minimum.
2. Below or near ground level: Cutting prohibited.
3. Treatment of surfaces exposed by minor cutting and drilling: Two flood coats of solution recommended for the purpose by main treatment solution manufacturer.

780 Making good galvanized surfaces

1. Treatment of minor damage (including on fasteners and fittings): Low melting point zinc alloy repair rods or powders made for this purpose, or at least two coats of zinc-rich paint to BS 4652.
2. Thickness: Apply sufficient material to provide a zinc coating at least equal in thickness to the original layer.

Completion

910 Cleaning

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

920 Fixings

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

Q50 Site/ street furniture/ equipment**Site and street furniture**

210 Cycle stands

1. Type: See drg. 2898-5-5-FRN-0002

225 Seats

1. Description: See drg. 2898-5-5-FRN-0001

242 Dog Waste Bins

1. Description: See drg 2898-5-5-FRN-0004

Installation

510 Concrete foundations generally

1. Standard: To BS 8500-2.
2. Concrete: Designated, not less than GEN 1
3. Admixtures: Do not use.
4. Foundation holes: Neat vertical sides.
5. Depth of foundations, bedding, haunching: Appropriate to provide adequate support and to receive overlying soft landscape or paving finishes.

515 Setting components in concrete

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

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.

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

Q52 Play and sports equipment**General**

130 Mountain Bike Track / Skill Course

1. Description: To On Track detail design
2. Equipment: To On Track detail design
3. Surfacing: To On Track detail design
 - 3.1. Line markings: To On Track detail design

System performance

240 Multi-use games area

1. Design criteria: As per drg's 2898-5-2-10-DR-2001-2007

255 Skate park design

1. Design criteria: To Gravity detail design
 - 1.1. Population served: Local community
 - 1.2. Frequency of use: Continuous

270 Pitch design

1. Description: As per layout on drg 2898-5-2-10-DR-2001
2. Design criteria: To specialist contractors design
 - 2.1. Type: As per layout on drg 2898-5-2-10-DR-2001
 - 2.2. Cricket wicket to be Notts Sport ECB approved non-turf Wicket
 - 2.3. Grass pitches build-up 250mm sports turf topsoil to BS3882 with 40mm sand worked in.

Execution

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.

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: To BS EN 1176-1
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