

Hyndburn Borough Council

Specification of works for the pitch improvement
works at King George V Playing Fields


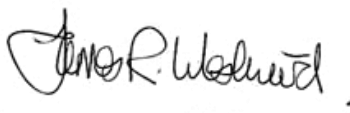
STRI Project No: J007633

Prepared by: Joe Woodcock

Date: 02/07/2025

Section 1: Specification

Job Title	Hyndburn Borough Council
Job Number	STRI REF. J007633
Document Title	Specification of works for the pitch improvement works at King George V Playing Fields

Prepared By	Joe Woodcock
Signed	
Date	01/07/2025
Approved By	James Westwood
Signed	
Date	02/07/2025

Revision	Date	Description of Principle Revisions	Prepared	Approved
0	02/07/25	Rev0 - Draft for review	JW	JW/MM

Section 1: Specifications

Contents

General Description of works	Page
1.0 General	4
2.0 Location	4
3.0 Access	4
4.0 Site Conditions	4
5.0 Description of Works	4
6.0 Drawings	5
7.0 Programme	5
8.0 Materials Testing	6
9.0 Health and Safety	7
 Specifications	
S100 General requirements	9
S200 Dimensions and tolerances	15
S300 Pitch Improvements Works	16
S400 Initial maintenance	21
 Appendices	
Appendix 1 - Blinding material – gravel trenches (if bridging not met)	28
Appendix 2 - Grading curve - sand for top dressing	29

General Description of Works

1.0 General

The King George V Playing Fields currently lie approximately 1 mile to the south of Accrington Town Centre with the total maintained area of the playing fields approximately 3.5 ha and currently has no sports played within the existing playing field due to the poor condition. Most recently in 2015 the playing field was used for football and contained a layout which included three 100x55m football pitches, one 71x50m football pitch and one 60x40m football pitch with a variation of orientation observed when looking back at google time lapse.

There is a consistent topographical gradient across the entire playing field area which runs in an east-west direction however some areas were noted to be marginally steeper or flatter than other areas. Surface deviations were noted when carrying out the feasibility study in November 2023.

2.0 Location

The playing field lies to the south of Accrington town centre approximately 1 mile from the centre. The postcode for the playing field is BB10 3LB.

3.0 Access

Vehicular access can be gained directly off Royds Avenue to the east of the site through a set of gates before entering a car park area which runs down the eastern perimeter of the playing field area.

4.0 Site Conditions

Laboratory analysis confirms that the King George V Playing Field area topsoil falls into the sandy loam textural classification. This soil has a high proportion of fine particles ('fines') comprising 18 % clay, 25% fine sand and 19% silt. There was a low proportion of larger very coarse, coarse and medium sized sand particles.

The soil maps of England and Wales also indicate that the existing soils suffer from seasonal waterlogging and are poorly draining natural soils.

5.0 Description of Works

5.1 General

The improvement works shall involve cultivation and minor re-grading to remove the existing ground undulations and produce a more even playing field area.

The works shall include spraying off the existing grass cover with a total, non-residual herbicide, fraise mowing, initial cultivations, blade grading, drainage installation (primary and secondary) cultivations, seed bed preparation, seeding and initial maintenance.

The works will take place across the already existing playing field plateau area with the total working area of 29,135 sq metres.

5.2 Scope of Works

The scope of works will include, but not necessarily be limited to, the following main operations:

Site enabling works

- Establish site access.
- Establish site compound.
- Cut back and remove long grass (provisional).
- Spraying with glyphosate based total herbicide.
- CAT scan area for underground utilities.

Initial site clearance

- Fraise mowing.

Level adjustments

- Topsoil cultivations.
- Blade grading.

Pipe drainage

- Installation pipe drainage system with lateral drains at 4 m centres.
- Connection into wider playing field drainage system to the west of the playing field.

Cultivations

- Cultivate topsoil layers over working area.
- Stone pick.

Secondary drainage

- Install slit drainage.

Seeding

- Prepare seedbed.
- Supply and sow seed.

Initial Maintenance Period (6 and or 12 months)

- Remove any remaining stones and other debris.
- Roll surface (provisional).
- Commence mowing when the grass is 60 mm high.
- Ongoing mowing throughout the maintenance period.
- Apply further dressings of fertiliser as required.
- Sand topdressing.
- Overseeding.
- Selective weed control.
- Verti-Draining.

6.0 Drawings

Drawings Number	Drawing Title
J007633 - 001	Existing Survey
J005632 - 002	Proposed Pitch Layout
J005632 - 003	Proposed Drainage Layout
J005632 - 004	Typical Drainage Profiles

7.0 Programme

Works are due to commence on-site during September 2025 with final seeding being completed by end of September 2025, subject to prevailing ground and weather conditions remaining favourable during this period. An initial maintenance period 12 months will be included to help develop a full and manageable grass cover on the new pitches areas which can then be handed over to the Club for ongoing management in September/October 2026.

8.0 Material Testing

The contractor shall submit a list of suppliers from whom they propose to purchase materials for the works and they shall forward full details of products or materials together with test certificates confirming their suitability. The Contractor shall be responsible for carrying out tests to confirm suitability and allowance shall be made in the tender for this requirement.

The Contract Manager reserves the right to inspect the proposed materials at source for the purpose of inspecting and witnessing the sampling or obtaining samples of the materials. Alternatively, the Contractor shall arrange for delivery of the samples of the materials to the Contract Manager's office or to a laboratory nominated or agreed by the Contract Manager.

Materials subsequently used throughout the works shall be consistent with the samples tested and approved by the Contract Manager. Where it is necessary for the samples to be submitted to the Contract Manager, the Contractor shall ensure that samples are supplied in sufficient time for them to be satisfactorily tested. No sources of supply shall be changed without the Contract Manager's prior approval.

Samples must be clearly labelled with the name of the supplier, the name or designation of the material and be dated to avoid confusion.

Representative samples of approved materials shall be retained on site by the Contractor for reference and comparison with bulk materials delivered throughout the Works.

Works, Goods or Materials	Test	Frequency of testing	Comments
Pipes and fittings for drainage.	BS Standard and product certification	All materials.	Product certification scheme applies.
Chambers, manhole steps, steel fitments, covers & bolts, grates and frames.	BS Standards	All materials.	Product certification scheme applies.
Gullies and pipe junctions.	BS Standards	All materials.	Product certification scheme applies.
Seed mixtures.	Seed Regulations	All seed batches.	Compliance with seed regulations and germination test.
Sand, rootzone mix.	Particle size. Particle angularity. Calcium carbonate. Particle size, calcium carbonate (sand-based materials only). Hydraulic conductivity (sand-based materials only). pH and nutrient content 9 (P & K) Organic matter content.	With tender, prior to commencing.	STRI Standard Operating Procedures.

Table 1 – Materials testing requirements

9.0 Health and Safety

9.1 General

The Contractor shall carry out all operations associated with the works in accordance with all current legislation and the Construction (Design and Management) (CDM) Regulations 2015.

The Contractor is required to provide a Health and Safety Policy and a statement demonstrating that due regard has been given to all aspects of Health and Safety relevant to the site, the specified works and other parties affected by the works.

Adequate provision must be made in the Contractors programme to allow time for setting up and implementing safe working systems prior to the commencement of construction.

The Contractor shall ensure that his rates are adequate to meet the cost of making all necessary arrangements for the Health and Safety and welfare of all persons affected by the Construction work.

It is intention that the successful Contractor shall take the role of Principal Contractor.

10.2 General Design Risk Assessments and Hazard Identification

Risk assessments have been completed during the preparation of the design requirements to identify the special and significant hazards, hazardous operations and work sequences that are likely to expose workers and others to risks to their health and safety. Where reasonably practicable these risks have been eliminated or reduced and any significant remaining hazards, hazardous operations and work sequences which cannot reasonably be designed out, are noted below.

It should be noted that the application of the recommended controls will not necessarily eliminate all risks. Appropriate training and information must be provided to the site management, operatives and others affected by the works, in order to minimise and/or control the residual risks. The Contractor must ensure that appropriate personal protective equipment (PPE) is provided and used with sufficient training in the use of the PPE where necessary.

The individual hazards identified may in many cases be combined with other hazards and thereby create an increased hazard that will require appropriate management.

Activity/Element	Hazard/Risk	Minimum Control Measures Expected
Traffic & plant movement off site	Other works pedestrians, road users and general public	Vehicular access to the site is directly off Royds Avenue through a set of gates to an already existing car park. The movement of construction traffic must be managed by the contractor and appropriate warning signs and traffic control measures provided.
Movement of plant on site	Injury to site personnel.	Pedestrian access to be closed where required using Heras fencing. Establish designated routes for machinery and storage of materials.
Imported materials	Injury to site personnel.	Handling and transport of bulk material across site.
Dust creation	Health risk to site personnel and local residents.	Spreading arranged to minimise dust. Damping down material stockpiles.

Deep trench excavation	Injury to site personnel.	Deep excavation of over 1 m shall be shuttered to prevent the collapse of main drain line excavation. Drains shall be backfilled as soon as possible and should not be left open/unfilled overnight.
Services	Drainage works could disrupt services leading to significant health risks and local communication links	The presence of any underground services shall be confirmed by the council prior to tendering. The contractor shall allow for further on-site CAT scan survey and trial pits in the event of any services being present.

The list identifies particular risks, but it does not purport to address all common place site hazards, deemed to be within the normal experience of a competent sports turf contractor, which can be controlled by the application of normal good site management practices.

Contractors must take account in their tender submission of the hazards and outline the measures they will take to control the hazards during the construction stage by applying appropriate safe working methods and/or the use of adequate means of protection.

Contractors must identify in their tender submission those residual hazards, which they believe cannot be adequately controlled during construction and which will require further mitigation measures.

10.3 Method Statements

Specific operations will require the preparation of detailed method statements by the Contractor to demonstrate how they will be managed in respect of minimising and/or controlling the risks to Health and Safety during construction. The Contractor must submit sufficient details with their tender to identify the principles that they propose to adopt. Fully detailed method statements will be required after the contractor has been appointed and prior to the commencement of the works.

10.4 Services

The presence of any underground services shall be confirmed by the council prior to tendering. The contractor shall allow for further on-site CAT scan survey and trial pits in the event of any services present.

S100 General requirements

S101 Interpretation of Specification

1. Any clauses in the Specification relating to work or materials not required by the Works shall be deemed not to apply. British Standards, Codes of Practice, and other Standards referred to in the Specification shall be those current on the date 42 days prior to the date for return of tenders.
2. Where material is specified by reference to a particular trade name or manufacturer equivalent materials will satisfy the Specification provided that they are approved by the Contract Manager.

S102 British Standards

1. Where an appropriate British Standard Specification or British Standard Code of Practice issued by the British Standards Institution is current at the date of the tender all goods and materials used or supplied, and all workmanship, shall either be in accordance with that standard or any equivalent European Community standard, or of a higher standard.

S103 Assistance to the Contract Manager

1. The Contractor shall provide assistance to the Contract Manager in carrying out his duties whenever required.

S104 Buried Apparatus and Utilities

1. The Contractor shall be responsible for determining the exact position of any services and utilities affected by the works if discovered.

S105 Site Conditions

1. The Contractor's attention is drawn to the need to satisfy themselves as to the conditions on site and is advised to visit and inspect the site prior to submitting the tender.
2. The Contractor is invited to obtain additional information relating to the ground conditions. Additional Site Investigation via exploratory holes shall be carried out in accordance with the details contained within this clause.
3. Additional exploratory holes will not extend greater than 2.5 m bgl unless approved by Contract Manager. The exploratory holes are to be excavated within the grounds at exact positions agreed with the Employer and the Contract Manager prior to excavation.
4. Spoil excavated from the exploratory holes must be placed on a temporary barrier such as plastic sheeting or wooden boards to prevent spoil contamination during excavation.
5. Each exploratory hole location shall be checked using "Cable Avoidance" equipment for underground services prior to excavation. Once an exploratory hole has been excavated and sampled the hole shall be backfilled using the spoil. The backfilling and reinstatement shall be to the approval of the grounds staff and Contract Manager.
6. The Contractor is responsible for obtaining additional information they consider necessary covering such matters as the nature of the ground conditions, water levels, physical features of the site, etc. and shall liaise with the club's representative with regard to site access and method statements/restrictions on ground assessment.

S106 Hand Work

1. The Contractor shall allow in their pricing for hand working on parts and in conditions where the use of machinery will not produce results to the Contract Manager's satisfaction even though specific reference is not made to such in the body of the Specification.

S107 Procedure

1. No variation from the sequence and nature of the works detailed in the specification will be permitted except with the prior written consent of the Contract Manager.

S108 Inclement Weather

1. The Works or any part thereof shall be suspended temporarily by the Contract Manager when, in their opinion, working conditions are unsuitable due to inclement weather.
2. Work must cease when ground conditions on site are such that puddling and/or deep rutting of the soil or any other detriment would result.

S109 Site meeting

1. The Contractor shall attend Progress meetings generally on site as required.

S110 Traffic Control and Pedestrian Safety

1. The Contractor shall provide and maintain all necessary road signs on public highways as required by the Contract Manager or by the Police and Local Authority.
2. Vehicular and pedestrian access for the public and residents to all dwellings and services adjoining the site and affected by the Contractor's access needs and works must be maintained at all times in a manner acceptable to the Contract Manager.
3. The Contractor shall remove from the surface of any public or private road any earth or other materials deposited by vehicles passing to or from the Site.
4. The Contractor shall take adequate precautions to prevent the spilling of oil, petrol or diesel fuel from vehicles, plant, storage drums or tanks on any access road or the Site in general. Any spillage shall be immediately cleared and the contaminated material disposed of at an appropriately licensed landfill site, and the damage made good.

S111 Maintenance of Public and Private Roads

1. The Contractor shall be responsible for keeping clean all public roads, pavements, verges, watercourses and other areas and shall allow for all costs incurred by them in the maintenance of same and for making good at their own expense any damage thereto when carrying out the Works.
2. The Contractor shall be responsible for reinstating all access roads to their original condition to the satisfaction of the Contract Manager. The original condition shall be determined by the Condition Survey which shall be undertaken prior to commencement, described in Clause S129.

S112 Traffic Regulations

1. The Contractor shall be responsible for avoiding any infringements of local traffic regulations.

S113 Delivery of Plant and Materials

1. All off-loading of materials and plant including that belonging to sub-Contractors is to take place WITHIN the boundaries of the Site except by specific agreement with the Contract Manager.

S114 Site Restrictions

1. The Contractor shall confine their work team and materials, plant, etc. to the area of the Site allocated for their use to be defined on the Drawings. Traffic shall be confined to designated routes within the site agreed with the Contract Manager. Access into the site shall be from the designated access at all times.

2. The normal working hours within the site shall be Monday to Friday between **08:00 and 18:00** and **08:00 to 13:00** on Saturdays with no working on Sundays or public holidays, unless by prior agreement with the Contract Manager. Such a ruling applies equally to nominated sub-Contractors and other operatives for whom the Contractor is responsible.
3. Utilities for use by the Contractor on site must be agreed with the employer or alternative arrangements shall be made for any supplies that they require for the duration of the works.

S115 Off Site Trespass

1. Allow for all measures and precautions necessary to prevent any trespass upon adjoining land or property, and to preclude any rubbish, materials, etc. from being deposited thereon.

S116 Boundary Protection

1. The Contractor shall allow for protecting and avoiding all damage to adjoining owner's boundaries.

S117 Restriction of Advertising

1. The Contractor shall not use nor let the Site or any part thereof for any advertising purposes save only that they may exhibit their own name and address together with those of their sub- Contractors and suppliers. An Information Board shall also display the title of the Works. Such Information Boards shall be approved before erection.

S118 Programme of Work

1. Progress charts shall be prepared by the Contractor and submitted to the Contract Manager for approval prior to the commencement of the Works to show how the Contractor intends to execute the Works within the time stated in the Form of Tender. The Contractor shall submit to the Contract Manager Monthly Progress Charts prior to the Monthly Progress Meetings. In the event of Extension of Time being granted in accordance with the Conditions of Contract, the Contractor shall prepare and submit revised progress charts to the Contract Manager.

S119 Temporary Works

1. The Contractor shall make all necessary temporary provision for the run-off of surface and ground water from the areas of excavation during the period between the start of the Works and the final connections to the drainage outfalls.
2. The Contractor shall provide all labour, materials and plant necessary for this purpose and all costs shall be deemed to be included in his rates.
3. The Contractor shall provide and maintain all temporary access roads, sleeper tracks, storage areas, or any other temporary works required during the execution of the Contract, remove the same as required and make good on completion of the Works.
4. The Contractor will be deemed to have taken due account in their Tender of the total cost of all Temporary Works necessary for the proper execution and completion of the Contract.
5. The Contractor shall take all necessary precautions to prevent any adjacent ground or watercourses from being adversely affected by loss of fines through any de-watering process.
6. All excavations shall be kept free from water at all times and adequate pumping plant, including special de-watering equipment, shall be provided by the Contractor, who shall also make their own arrangements for the disposal of all water encountered in the excavations. All sumps shall be located clear of excavations for permanent work, and when no longer required the sumps shall be filled in with suitable material or dealt with as directed by the Contract Manager.

7. The contractor will not be permitted to carry out any concreting or other constructional work unless the excavations are dry, and the excavations shall be kept free from water until the concrete has set sufficiently so as not to be damaged by water.
8. The Contractor shall supply and fix all necessary timbering, steel sheeting, strutting, shoring, etc., to support the sides of excavations so as to ensure the safety of workmen, freedom from damage of any structures or services and to prevent any movement of adjacent soil. All such supports shall be maintained until the constructional work is sufficiently advanced to permit the timbering, etc. to be withdrawn.
9. Where necessary, the excavations shall be close timbered or sheeted and the Contractor will receive no additional payment for this work, even though it may have been ordered by the Contract Manager.
10. Any buildings, walls, sewers, culverts, mains, cables, etc. likely to be damaged by the excavation shall be properly supported and the Contractor shall be held responsible for any damage arising in this connection. The Contractor shall be responsible for any damage to the permanent work due to inadequacy of timbering etc., and any consequential damage caused by the removal of timbering, steel sheeting or other supports from excavations.
11. The Contractor should allow for all Temporary Fencing, Planked Footways, Guard Rails, Lighting and the like as may be necessary for protecting the public, and for the proper execution of the Works as may be required by the Contract Manager. The Contractor shall also allow for the demarcation of the works and protection of excavations and obstructions.

S120 Restricted Use of Plant

1. If for any reason the Contract Manager is of the opinion that it is undesirable that any excavator, mechanical digger or other plant used or proposed to be used by the Contractor for the purpose of excavation should be used, or that any such plant is unsuitable for use on the Works or any part of them, the Contract Manager may order the Contractor not to use and/or to remove the plant from the site.

S121 Police Regulations

1. The Contractor shall allow for all costs incurred by him in ascertaining and complying with Police regulations.

S122 National Insurance, etc.

1. The Contractor shall allow for all payments and costs incurred in connection with National Insurance, contributions, levies, taxes and pensions for workpeople.

S123 Clearing the Site upon Completion

1. The Contractor shall, upon completion of the Works, clear all plant, unused materials, etc., clean all roads, drains, watercourses etc. affected by the Works and leave the whole of the Site in a clean and tidy condition acceptable to the Contract Manager.

S124 Protection of Services, Public Footways and Highways

1. The Contractor shall make all necessary provisions, including the supply of protective coverings, warning signs as appropriate to protect and maintain the following:
 - a. The public highway along the proposed access and egress routes to the site.
 - b. All public footways adjacent to the public highways detailed in a) above.
 - c. Site roads where appropriate.
 - d. All underground services in the working area along the proposed access and egress routes in a) above.
 - e. All foul and storm sewer drain covers and road drainage gullies within the areas covered by a) and b) above.
 - f. Protection for, travelling below or adjacent to all overhead services within the site.

2. The Contractor will be deemed to have included in their works the costs for supplying and maintaining all temporary cones.

S125 Control of Dust

1. The Contractor shall conduct their operations so that as far as possible any dust settles within the site and is not carried beyond the immediate working area.
2. The Contractor shall also undertake a daily visual inspection of vehicles (if any) parked in the site compound areas and adjacent the areas of working for the presence of any settled dust.
3. The Contractor shall adjust the location of any excavation or filling operations having regard to the wind direction and speed and shall suspend such operations altogether in the event that any such adjustment fails to prevent dust from being carried beyond the immediate working area.

Any stockpiles of material subject to wind whipping shall be damped down and covered to ensure satisfactory dust control.

4. The Contractor shall ensure that airborne dust is kept to a minimum by the regular use of water bowsters during periods of dry weather. The Contractor shall also deploy other water spraying equipment as required to control dust emissions whenever significant dust emissions are created or are likely to be generated by site operations.

S126 Control of Noise and Vibration

1. The Contractor shall employ the best practical means to minimise noise and vibration produced by their operations and shall have regard to the recommendations in BS 5228. Noise Control on Construction and Open Sites, the Noise Abatement Act (1960) and all amendments thereto, and the Department of the Environment Advisory Leaflet No. 72 "Noise Control and Building Sites" and such subsequent publications.
2. With prejudice to the generality of the Contractor's obligations under the preceding paragraph, the Contractor shall comply in particular with the following requirements:
 - a. All vehicles and mechanical plant used for the purpose of the Works shall be fitted with effective exhaust silencers and shall be maintained in good and efficient working order.
 - b. All compressors shall be "sound reduced" models fitted with properly lined and sealed acoustic covers which shall be kept closed whenever the machines are in use, and all pneumatic percussive tools shall be fitted with mufflers or silencers of the type recommended by the manufacturers.
 - c. Machines in intermittent use shall be shut down in the intervening period between work or throttled down to a minimum.
 - d. All pumps shall be fitted with effective exhaust silencers and shall be maintained in good and efficient working order. All de-watering pumps shall be "sound reduced" models fitted with properly lined and sealed acoustic covers.
3. The Contractor shall pay special regard to minimise noise at the site boundaries. Such measures include:
 - a. The location of the site offices, stockpiles and mobile noise screens.
 - b. Limits on the amount of plant at work.
 - c. Silencing of plant as described above.
4. The Contractor shall take suitable steps in their method of working to prevent damage to adjacent structures due to vibrations caused by executing the Works.

S127 Information Boards

1. The Contractor shall provide, maintain and remove on completion of the Works an information board that shall be displayed on the site cabin. The information board shall give details of the Client, Contract Manager and Contractor's name together with telephone contact numbers for both office hours and out of office hours. The Information Board shall also provide details of the scheme name and completion dates. The position design and layout of these boards are to be approved by the Contract Manager.

S128 Photographs and Condition Survey of Existing Access Roadway, Footways and Hardstanding Area - Advanced Photographs

1. The Contractor shall prior to the commencement of any excavation Works, undertake a condition survey of the existing access and roadway, and adjacent areas. A copy of the photographs shall be provided to the Contract Manager in electronic format, together with a report of any damage to existing surfaces, kerbstones or manhole constructions.
2. A copy of the written report, together with one bound copy of the photographic record of each roadway, footway and hard standing area shall be handed to the Contract Manager at least 48 hours in advance of the commencement of any excavation works.

S129 Progress Photographs

1. The Contractor shall produce a photographic record of the Works.
2. As a minimum requirement, photographs shall be taken prior to commencement and upon completion of each main operation including all stages of the drainage works, excavation and backfilling.
3. The photographs shall be taken with a digital camera and a copy provided in electronic format. A copy of the photographs shall be provided in colour and mounted in a loose-leaf album dated.
4. The copyrights of all photographs shall be re-vested in the Employer and shall be delivered to the Contract Manager at each progress meeting. The photographs shall not be used for any purpose whatsoever without the Contract Managers approval.

S130 Site Operations Method Statement

1. Prior to the commencement of the Works, the Contractor shall prepare a detailed method statement for the site operations. Attention is drawn to the specific requirements for the drain layout and depths required to achieve satisfactory outlets. The Contractor will be deemed to have included in their rates for all method statements required.
 - a. All site personnel are subject to an appropriate induction course prior to commencement of work on site, covering all aspects of site work and appropriate health and safety measures in place.
 - b. Appropriate control measures are instigated to prevent and control as necessary generation of dust and/or odours.
 - c. Areas designated for temporary stockpiling of excavated material prior to removal from site are clearly identified.
 - d. Procedures to be followed should old drains or other unidentified or unexpected materials be encountered during excavation during site works.
 - e. Appropriate precautions are to be taken to prevent the discharge of water from the site into the foul or storm water sewage system (including water used to control dust).
 - f. Arrangements for initial site access for plant and measures taken to prevent the deposit of mud, grit and dirt onto the A6114 by vehicles travelling to and from the site.

S131 General Health & Safety Procedures - Safe Working Practices

1. The Contractor shall carry out all operations associated with the specified works in accordance with all current legislation, including the Construction (Design and Management) Regulations 2015 (CDM) where applicable.
2. The Contractor shall ensure that their rates are adequate to meet the cost of making all necessary arrangements for the Health and Safety and welfare of all persons affected by the Construction work.
3. The main access point shall be attended by the Contractor to supervise the movement of delivery lorries into and out of the site. When not in use or outside working hours the access point shall be securely closed and locked. Appropriate signage warning the general public of construction hazard will be established.
4. As a minimum all staff will be issued with the following Personal Protective Equipment (PPE).
 - Protective footwear (steel toe caps and insoles to BS 1870)
 - Safety helmets
 - Reflective jackets or waistcoats
 - Rubber gloves
5. The Contractor shall provide qualified First Aiders as appropriate and shall ensure that at any time during working hours at least one qualified First Aider is in full time attendance. The Contractor will be deemed to have included in their rates for providing a First Aider.

S132 Staff Welfare Facilities

1. The Contractor shall provide and maintain adequate sanitary facilities and shelter accommodation for the use of all workmen unless otherwise provided by the employer. Their siting, maintenance and clearance on completion shall be to the satisfaction of the Contract Manager.
2. Power and water supplies shall be provided to the Contractor's compound area as required. Any power or water requirements outside the compound area shall be provided through the use of generators, bowsers or similar at the Contractor's own expense.

S133 Professional Indemnity Insurance

1. The Contractor shall provide a minimum Professional Indemnity Insurance cover of £5 m relating to claims or series of claims arising out of one event.

S200 Dimensions and tolerances

S201 Drainage Pipelines

Where required, lateral and main drains are to be installed in the pitch area with the invert level as shown on the drawings or depths set out in section S300.

The position of the internal face of any pipeline shall not deviate from that shown in the Drawings by more than the tolerance detailed below:

From the design level and gradient	+ or - 20 mm
From the line of the drain	+ or - 50 mm

Where feasible, pipelines shall be laid at a uniform gradient or shall generally follow the natural gradient of the land.

Overall pipeline gradients shall not differ from the required gradients by more than 10% e.g. for a specified grade of 1 in 50 pipes laid at between 1 in 45 and 1 in 55 will be acceptable provided the other criteria above are also satisfied.

Tolerances of the upper surface of each layer measured using a 2 m straight edge shall conform to the following:

Prepared topsoil layer	Max. 20 mm gap with the finished surface within +20/-20 mm of the designed finished surface heights.
------------------------	--

S203 Playing field dimensions

The main playing field area shall be a sufficient size to accommodate up to three senior natural grass football pitches. The dimension of these football pitches are 100x64m with a 3m safety margin around the perimeter of the pitches.

S204 Drawings

The following drawings are included:

Drawings Number	Drawing Title
J007633 - 001	Existing Survey
J005632 - 002	Proposed Pitch Layout
J005632 - 003	Proposed Drainage Layout
J005632 - 004	Typical Drainage Profiles

S300 Pitch improvement works

S301 Access

1. The Pitch Contractor shall prepare and maintain a suitable access within the King George V Playing Fields throughout the Contract Period for all equipment and materials, together with all necessary traffic and pedestrian management measures including warning signs.
2. The Pitch Contractor shall carry out reinstatement of the access to the original condition on completion of the works.
3. The Pitch Contractor shall provide adequate protection to prevent damage to all structures and infrastructure on the access route to the pitch and adjacent to the working area.
4. If required, the Pitch Contractor shall allow for cutting back/pruning and removal of any overhanging branches from adjoining the access route to facilitate unhindered passage of any machinery and plant required to complete the works on site.

S302 Storage Compound

1. The Contractor shall provide and maintain throughout the contract period a storage compound for equipment and materials within the site area at a location agreed with Hyndburn BC.
2. If required, allowance shall be made for fencing around the compound for the duration of the works using Heras or other approved site fencing. The Contractor shall carry out full reinstatement of the compound area to the original condition on completion of the works.

S303 Site preparatory works

1. Setting out

The Contractor shall set out the working areas. Please refer to the schedule of construction drawings. Confirm any queries or discrepancies with the Contract Manager.

2. *Spray with glyphosate*

Over the working areas, the Contractor shall spray the grass sward using a total non-residual herbicide based on glyphosate. The application of glyphosate shall be strictly according to manufacturer's recommendations and all current legislation and health and safety regulations.

The herbicide must not be allowed to drift or otherwise affect any areas beyond the designated working area for re-grading. Herbicides shall only be applied in dry weather conditions to avoid surface runoff or infiltration into drainage systems.

The herbicide shall be applied at a time agreed with the Contract Manager.

3. *CAT Scanning*

Prior to commencing any earthworks on site, the Contractor shall allow for carrying out careful CAT scanning to ensure the area is service free, with allowance also being made for any associated exploratory trial hole excavations.

S304 Level Adjustment Works

1. *Fraise mowing of existing turf*

Strip off existing turf across the working area using a Koro Fieldtopmaker or similar machine and cart the material to the area north of the playing field. Note this area is outside the fence area and several fence panels may need to be removed and reinstated to tip and landscape the material. The Contractor shall ensure that all of the existing thatch layer is also removed when stripping the turf.

A provisional item should be provided by the contractor to dump this waste to a licensed waste tip facility if dumping is not feasible to the north of the playing field area.

3. *Initial Topsoil cultivation*

With tractor powered power harrows, the topsoil shall be cultivated to produce a fine tilth to a minimum depth of 200 mm and as deep as practically possible. The surface shall be cultivated with a minimum of two passes to ensure sward is fully broken down in advance of minor regarding works.

S305 Drainage installation

1. *General*

The aim of the proposed primary drainage works is to create an intensive and uniform network of lateral drains across the entirety of the playing area. The drainage system will be laid at 4 metre centres. Lateral drainage should be laid at 600 mm to invert at the head of the pipe and laid with the ball of land. Main collector drains shall be installed at 700 mm at the head of the pipe and laid at the falls shown on the drawing. A catchwater should be installed at the bottom of the bank to the south-east along the car park and pavilion. This catchwater will be laid at the fall shown on the draining and at 600 mm to invert at the head of the pipe.

Drainage pipework shall consist of perforated, corrugated plastic pipe lateral drains conforming to BS 4962 or twin wall pipe main drains to BBA industry standards as appropriate. Drains shall be installed in accordance with the drawings listed in S204. All junctions and connections shall be formed with purpose made fittings of appropriate size.

The Pitch Contractor shall inspect the site and satisfy himself as to the ground conditions. Lateral drain trenches shall be a minimum width of 150 mm, but the Pitch Contractor shall allow for excavating trenches as wide as necessary with appropriate machinery available to them.

Perforated plastic pipes shall conform to BS 4962:1989 with the Kite Mark clearly shown.

All joints in the drains and connections between laterals and main drains shall be made using purpose made junctions of appropriate size.

The contractor should allow for tipping the arisings to the north of the playing field area and should be spread to a gradient no greater than 1:3 if possible and seeded with an appropriate wildflower mix.

The aggregate used for drain trench backfill shall generally be a hard 2-6 mm gauge material, free of fine particles.

The aggregate shall comprise particles that are angular, sub-angular or sub-rounded in shape. The aggregate shall not contain particles that are flaky, laminar or platy in shape, susceptible to breakdown during working by machinery. Any proposed materials shall be approved by the Main Contractor's Agent.

The sand used to backfill the drainage trench above the aggregate shall be a lime-free sand with a grading curve within the central recommended range of the diagram at Appendix 5.

Should the sand material not bridge with the aggregate material, a 50mm blinding layer of lime-free sand with a grading curve within the central recommended range of the diagram at Appendix 4 shall be used, before topping up with sand material as noted in Appendix 5 as above.

All backfilling materials shall be adequately firmed to prevent settlement.

2. Drain installation

Excavate topsoil and subsoil to form drain trenches to required depth and shape the trench bed to receive pipes. The spoil shall be retained on-site to an agreed location with the council.

Backfill drain trenches up to 150 mm from ground level using approved 2-6 mm gauge aggregate. Ensure they are adequately and evenly firmed, to prevent settlement of the drains over time.

Cover the 2-6 mm gauge aggregate to the surface with 150 mm firmed depth of an approved blinding sand if required (with a particle size distribution within the central section of the grade curve in Appendix 1) and firm.

3. Silt Chambers

Excavate to required depth and construct chambers at locations shown as per Drawing: J007633-003 Proposed Drainage Layout.

Excavate to required depth and construct chambers at locations shown on the Drawing. The minimum inside measurements shall be 900 mm x 600 mm and to a depth of 300 mm below the invert of the outlet pipe except where otherwise specified.

SC5 should be a larger chamber and shall be 1200 mm diameter silt chambers and to a depth of 300 mm below the invert of the outlet pipe.

Allowance shall be made for building in rigid inlet and outlet pipes and pointing and sealing around all units and pipes to ensure efficient waterproofing. Corrugated plastic pipes shall be sleeved in rigid pipe with a minimum length of 1.5 m fixed securely into the chamber wall.

Following construction of the chambers, the surrounding ground shall be reinstated by placing and consolidating subsoil in 150 mm thick layers. The inlet and outlet pipes shall be maintained at the required gradient and invert levels during backfilling. Topsoil shall be replaced to the minimum consolidated thickness of 150 mm.

The chambers shall be fitted with Grade B cast iron covers and frames to BS EN 124:1994. The frames shall be bedded on and haunched in cement mortar.

4. Outlet Drain

A 225 mm TW unperforated carrier drain will transport the surface water collected from the constructed SC'S as shown on drawing no:003 and connected into a wider drainage scheme which includes three existing chambers located to the south of the playing field area.

Allowance shall be made for breaking in and connecting to the wider drainage scheme silt chamber with pointing and sealing around all joints to ensure efficient waterproofing.

Perforated plastic pipes shall conform to BS 4962:1989 with the Kite Mark clearly shown.

All joints in the drains and connections between laterals and main drains shall be made using purpose made junctions of appropriate size.

When excavating the drain trenches, the topsoil shall first be removed and then the subsoil, the materials being preserved separately to one side for replacement.

The Contractor shall be responsible for making good the surface if settlement occurs on the trenches.

Following laying and sealing of the pipes, subsoil shall be replaced first and then the topsoil. Each material shall be adequately firmed to avoid settlement.

S306 Secondary drainage

The primary drainage system shall be supplemented by secondary drainage in the form of gravel/sand filled slit drains. The slit drains will be installed in a north-south direction and will intersect the primary drainage system using a trencher.

The secondary drainage system trenches shall be excavated with a minimum width of 50 mm and shall be at a maximum spacing of 1 m. It is critical that slit drains are installed to a sufficient depth to provide a positive connection with the drainage aggregate in the new lateral drains. The depth of the slit drains should be 250 mm in total (100 mm sand capping & 150 mm of gravel).

The gravel backfill material shall be a clean, hard 1 – 5 mm gauge material resistant to abrasion or breakdown. The calcium carbonate content shall not exceed 5%.

Any spillage of sand shall be entirely cleaned up as soon as it occurs.

The works should be carried out so as to produce the minimum amount of compact of the pitch surface.

The arisings from the installation of the slit drains shall be disposed on-site to the north.

Second cultivation should be carried out at this stage very lightly 50 – 75 mm after the installation of the gravel bands, this to avoid disturbing the gravel backfill of the gravel bands.

The gravel bands/sand slits shall be backfilled to the surface level using medium-coarse sand with a grading curve which lies within the central recommended portion of the approved grading curve complying with the table below. The maximum calcium carbonate content shall be 1%.

Medium-Coarse Sand Grading

Particle Size	% Passing
8 mm	100
4 mm	98-100
2 mm	80-100
1mm	50-85
0.5mm	20-55
0.25mm	5-25
0.125mm	0-3
0.063mm	0-2

The arisings from the installation of the gravel bands shall be retained on-site for landscaping purposes.

*** The secondary drainage system shall be installed once grass cover has been fully established. The contractor shall allow for a separate mobilisation cost to visit the site at a later date. ****

Additional sanding will be required over secondary drainage installation.

S308 Seedbed Preparation

1. Surface preparation

The Contractor shall carry out final levelling and surface finishing of the graded platform areas to the satisfaction of the Contract Manager, using a rotary stone rake or other equivalent equipment. The seedbed shall be fine, smooth and evenly firmed but not over consolidated. The contractor shall trim the surface as necessary to achieve the final grade of surface.

Cultivate to prepare an even surface with a fine tilth suitable for grass seeding. The finished surface shall marry smoothly with the surrounding ground conforming to the required tolerances.

During seedbed preparation, remove any stones with any dimension greater than 25 mm or other deleterious material from the surface and the upper 50 mm of the topsoil using suitable machinery or where appropriate by raking and hand picking during the cultivation work. It is essential that the completed playing surface is free from stones or other debris that may result in injury during use.

All stones collected shall be removed off site, to an approved licensed tip facility.

2. Pre-seeding fertiliser

Supply and spread seedbed fertiliser with a provisional analysis of 8:12:8 at a rate of 350 kg/ha or an equivalent approved product during the final seedbed preparation. The fertiliser shall be uniformly applied and worked into the surface.

S309 Seeding

1. Graded platforms

Provide a seeds mixture for sowing on the graded pitch platforms and surrounds at the rate of 400 kg/ha. composed by weight of:

100% Perennial ryegrass:	Certified Seed of at least 3 cultivars with a mean rating of not less than 7.4 for live ground cover and visual merit as published in Table S1 of the current Turfgrass Seed Booklet published by STRI/BSBP.
--------------------------	--

Note: Alternatives to the cultivars listed will only be approved before the Tender is submitted.

The seeds mixture shall comply with the minimum standards set out in the Seed Regulations at the time of sowing and shall be approved by the Contract Manager prior to commencing the work.

Sow the grass seed during suitable conditions. The total quantity of seed shall be divided in half, each half being sown evenly with an approved distributor in transverse directions to provide a total rate of sowing of 400 kg/ha.

The seed shall be sown with a self-propelled dimple seeder to an agreed depth or an alternative machine approved by the Contract Manager. Seeding depth may be changed by the Contract Manager depending on the weather conditions prevailing at the time. Lightly chain harrow or rake seed into immediate surface care being taken not to work seed into drills or ridge the surface.

Seeding of the pitch platform surrounds and margins shall be as above.

A low maintenance wildflower mixture shall be sown on the area to the north where drainage arisings have been landscaped.

S400 Initial Maintenance

S401 General

1. The Contractor shall be responsible for the initial maintenance of the completed graded platform areas and immediate surrounds for a 6 or 12-month period from the date of sowing (including the winter period) until the grass is sufficiently well established.
2. Maintenance operations shall take account of the prevailing soil and weather conditions and the maintenance works must be timed to ensure that there are no delays in the establishment of the grass and the specified standards are achieved.
3. During this period the Contractor shall be expected to undertake all necessary operations to promote rapid establishment of the turf, including any additional overseeding to achieve the specified grass cover. All such work shall be undertaken by skilled and experienced staff.
4. At the time of handover, the grass shall be growing vigorously with a good uniform colour and a minimum ground cover of 85% of the sown grass species when measured with the sward cut at a height of 30 mm no bare areas. The sward shall be substantially free of persistent broad-leaved, or grass weed species.
5. The Contractor shall allow in their rates for repairs of areas including damage caused by surface run off, grazing or burrowing animals.
6. All tractors and equipment shall be of appropriate size and shall be fitted with low ground pressure turf tyres to avoid creating ruts or wheel marks in the surface.
7. Drainage lines shall be topped up prior to handover if required.

S402 Mowing

1. The grass shall be cut when it has reached a height of 65 mm using a ride-on rotary mower with well-sharpened blades correctly adjusted to the required mowing height removing no more than 25 mm or a third of the leaf blade on the first cut. Grass clippings shall be allowed to fly providing they are well dispersed. Accumulated clippings shall be removed immediately following mowing to prevent smothering of the grass.
2. For subsequent cuts the grass shall be maintained at a height of 35 mm during the remainder of the grow-in period and up to the time of handover during which the grasses should not be allowed to grow taller than 50 mm between cuts. For the final month of the maintenance period prior to handover, the grassed areas shall be cut with a ride-on mower fitted with cylinder cutting units. Accumulated clippings shall be removed immediately following mowing to prevent smothering of the grass.
3. Allowance shall be made for a total 30 during the 12 month period.

S403 Fertiliser

1. Supply and evenly spread fertiliser, in accordance with the following provisional details.

The Contractor should note that the application rates may be varied subject to grass growth, condition and the prevailing weather conditions.

The timing of each of the fertiliser applications shall be agreed with the football club.

12-month:

- A) Conventional granular fertiliser with analysis 8:12:8 at a rate of 350 kg/ha.
- B) Slow-release granular fertiliser with analysis 10:10:10 at a rate of 90 kg/ha.
- C) Granular fertiliser with analysis 16:6:6 at a rate of 350 kg/ha.
- D) Granular fertiliser with analysis 16:6:6 at a rate of 350 kg/ha.

S404 Overseeding

1. The Contractor shall allow for overseeding the graded pitch platforms with the approved seeds mixture at a rate of 200 kg/ha. The seed shall be sown evenly using an approved seeder with three passes in different directions.

Provisional

S405 Verti-Draining

1. On completion of the pitch construction when the grass has become established, the Contractor shall Verti-Drain the area of the graded platform to relieve any compaction in the soil profile. This work shall be undertaken using a machine with a minimum working width of 2 m fitted with 25 mm diameter tines at 125 mm centres and to a depth of 250 mm.

The work shall be carried out during suitable ground and weather conditions to ensure a minimum disturbance of surface levels. should be carried out twice if the 12 month initial maintenance period.

S406 Sand top dressing

1. Supply and evenly apply approved medium/fine sand to the pitch area for spreading at a total rate equivalent to 100 tonnes per hectare. The sand shall have a grading curve which lies within the central recommended portion of the diagram at Appendix 1. The lime content of the sand shall be no more than 5%.

Application of sand shall be applied using an approved bulk top dressing unit or other approved equipment.

Care must be taken not to rut the underlying soil and low ground pressure tyres must be used on all equipment. Care must also be taken to avoid piles of sand forming at the start and finish of runs. Allowance shall be made for brushing/drag matting sand into the turf surface using an approved turf brush or drag mat.

Provisional

S407 Selective herbicide

1. The Pitch Contractor shall allow for supplying and applying a selective herbicide appropriate to the weeds present in accordance with the manufacturer's instructions and all current legislation and as directed by the Contract Manager.

Provisional

S408 Stone removal

1. At time agreed with the Main Contractor, when the grass is 50 mm high remove any stones or other debris with any dimension greater than 20 mm and dispose of to an authorised tipping site. Following stone removal, roll in dry conditions using an approved flat roller.

Provisional

S409 Topping up drain lines

1. The contractor shall allow to return to site to top-up drain lines with appropriate material should any settlement occur during the 6 or 12-month maintenance period.

Note: It should be noted that settlement may occur on drain lines over a three-five year period after the contractor maintenance period has concluded. Topping up of the drain lines beyond the 6 or 12-month maintenance period is not the responsibility of the contractor.

Provisional

S410 As-built drawing & O&M manual

1. The Pitch Contractor shall instigate a 3D topographic survey to form an “as built” record of the finished levels and contours.

The work shall be carried out during suitable ground and weather conditions to ensure a minimum disturbance of surface levels.

Section 3: Pricing Document

Contents

	Page
1.0 Preamble to bills of quantities	25
2.0 Dayworks	26
3.0 Bills of Quantities (refer to separate Excel document)	27

1.0 Preamble to Bills of Quantities

1. In accordance with the Appendix to the Conditions of Contract, the measurement of the Bill of Quantities has been prepared as described in the Civil Engineering Standard Method of Measurement (CESMM) (3rd Edition 1991) and as modified herein. The various Clauses within the Preamble shall take precedence over the CESMM in the event of any dispute.
2. The prices and rates to be inserted in the Bills of Quantities are to be the full inclusive value of the work described under the several items, including all costs and expenses which may be required in and for the construction of the work described, together with all general risks, liabilities and obligations set forth or implied in the documents on which the Tender is to be based.
3. Each item shall be priced independently of any other work scheduled in the Bills of Quantities. A price or rate is to be entered against each item in the Bills of Quantities, whether quantities are stated or not. Items against which no price is entered are to be considered as covered by other prices or rates in the Bills.
4. The Form of Contract, the Conditions of Contract, the Specifications and Drawings are to be read in conjunction with the Bills of Quantities.
5. General directions and descriptions of work and material given in the Specifications are not necessarily repeated in the Bills of Quantities. Reference is to be made to the Specifications for this information.
6. The Contractor shall allow in their costings for the phasing of the works, carrying out work in isolated sections and co-operation with any of the Statutory Undertakers or any sub-contractor. Prices and rates are to include for the cost of all non-productive and temporary works and for overtime involved in carrying out and completing the works.
7. The amounts given in these Bills of Quantities are believed to be correct, but are not guaranteed, and are given for the purpose of enabling Contractors to make out their Tenders on an equal basis and to enable the Contract Manager to compare them. The Contractor shall be responsible for confirming any discrepancy prior to tender. Quantities in the Bills of quantities are deemed to be fixed and not subject to remeasurement and the Contractor shall be paid for the fixed quantity at the rates provided in the Bills of Quantities (clause 11.2). No claim made by the Contractor arising from any increase, reduction or omission in the Works will be considered by the Contract Manager.
8. The General Items shall be deemed to be spread over the whole of the period that the Contractor is on site, and the amount of the General Items to be paid in the monthly certificates shall be proportionately equal to the total time the Contractor has spent on site up to the date of submission of the certificate.
9. All Provisional Quantities or Provisional Sums of Money are to be understood as being subject to deduction in whole or in part, at the discretion of the Contract Manager, from the amount of the Contract. The rates set out for such items, if any, shall be used for the valuation of works so ordered by the Contract Manager in writing, whether the quantities shown are used wholly or in part.
10. Amendments to Method of Measure
 - a. Contractors should note that in Class E8 (Landscaping), the unit of surface area is either hectares or square metres as appropriate.
 - b. Where appropriate, Classes I, J, K and L have been amalgamated in the Bills of Quantities and the rates entered against these amalgamated items shall include for each of the four functions.
 - c. Contractors should note that method related charges have been deleted.

2.0 Dayworks

Plant

Plant Schedule and Hire rates to be used in the construction of the Works

Item of Plant	Type/size	Rate £/hour

Labour

The Contractor is to list below the rates for the various classes of labour to be used when Daywork is ordered.

The rates quoted shall be the “Amount of Wages” as described in the above-mentioned Schedule of Dayworks.

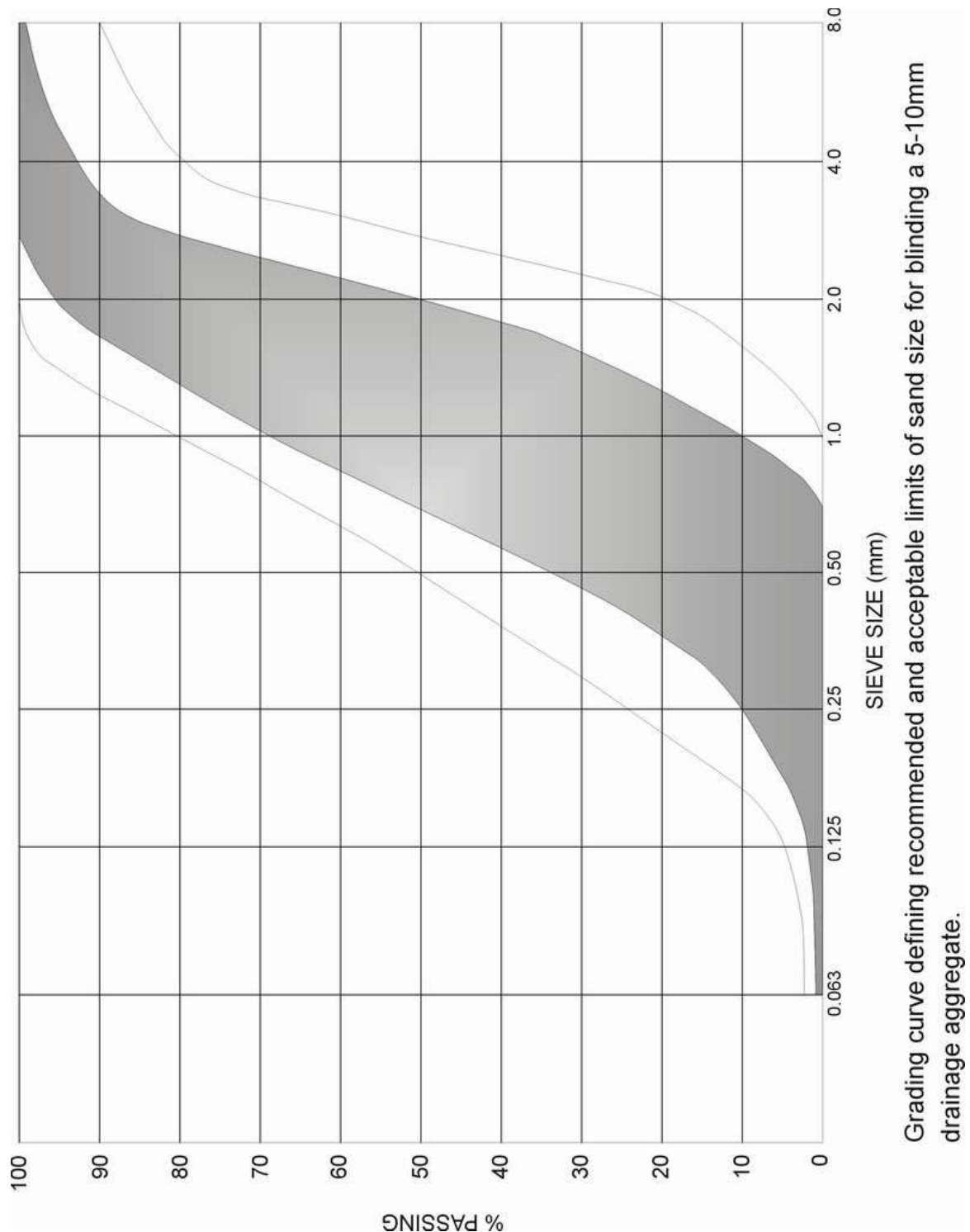
Item of Plant	Working Rate	Standing Time Rate£/hour
1. Working Foreman or Ganger		
2. Plant Operator		
3. Tractor Driver		
4. Ground Worker		
5. Lorry Driver		
6. Grounds Man		
7. Other		

3.0 Bills of Quantities

Refer to Excel document provided separately.

APPENDIX 1

SAND FOR BLINDING GRAVEL IN DRAIN TRENCHES



APPENDIX 2

GRADING CURVE - SAND FOR TOP DRESSING

