

total-play



Proposal, Specification & Costs ECB Approved Non Turf Cricket Practice Facility

Prepared for: Dave Knight, Newport Cricket Club

Prepared by: Steve Ball, Business Development Manager

Date: 17 July 2026

Proposal No: SB3360726

This document is a strictly confidential communication to and solely for the use of Newport Cricket Club. This document and the information it it, are provided in confidence to Newport Cricket Club, for the sole purpose of exploring potential ground development works. No part of it may be reproduced or communicated to any other third party without the expressed written permission of total-play Ltd

T: 01604 864575 **E:** info@total-play.co.uk **W:** www.total-play.co.uk

total-play Ltd, The Cottage Yard, Quinton Green Park, Quinton Green, Northampton, NN7 2EG

Regd. in England No: 6268073 VAT Reg. No. GB 947641492



**GROUNDS
MANAGEMENT
ASSOCIATION**
Corporate Plus



**SAPCA
MEMBER**



2. PROJECT BRIEF

WHY IS A NEW NTP PRACTICE FACILITY IMPORTANT?

1. A new practice system will help increase the attractiveness of the club to prospective junior and senior players.
2. A new practice system will assist the club's retention of junior and senior players by providing increased on-site facilities and subsequently allowing coaches and leaders to provide year round coaching sessions.
3. NTP areas can be used during wet weather offering excellent activity options when rain has interrupted play.

When applying for funding it is vital that applicants show that they have considered how to maximise the lifespan of a new sports facility by implementing a regular maintenance regime from the onset. As part of our hand over process we will provide clients with an extensive operation and maintenance manual detailing in-house and specialist tasks, frequency and associated costs.

From experience of working with grant funders we actively encourage potential clients to include a maintenance cost as part of any grant applications, this part of the project can be discussed in more detail prior to placing an order.

PROPOSED DESIGN:

total-play (TP) has been invited by Dave Knight to provide build specifications and costs for ground improvements at Newport Cricket Club.

Newport Cricket Club are a friendly and inclusive community cricket club. They are an aspiring club and require a new off field practice facility for the further development of junior and senior cricket sections.

An ECB approved four lane 35m enclosed facility will meet the demands of the club, providing a safe, performance led facility in which to hold warm ups, coaching, drills, skills and net practice.

This document will outline design specifications and costs for the following project:

-  The installation of a fully carpeted 4 lane 35 m enclosed 'tp5t' non-turf cricket practice facility.

Newport Cricket Club require new non-turf practice facilities to tie in with and enhance existing facilities. The increase in players at both senior and junior level combined with recent success has spurred intentions to continue raising standards. Subject to securing funding and planning permission, the proposed development will aim to be completed Spring 2027.

At total-play, we invariably encourage and suggest system specification and components to ensure we deliver the very best solution available in the marketplace.

If for various reasons, our client requires a reduction to the overall cost for budgetary reason, we can certainly put forward a selection of 'cost engineering' options.

These component options have potential to significantly reduce overall project cost without compromising any of our trusted base construction method, whilst still delivering a fully ECB approved system.

SITE VISIT REPORT:

To gain a full understanding of client requirements and an appreciation of the conditions on site, a visit was conducted Tuesday, 30 June 2026 by Steve Ball with Dave and Mike Knight.

The potential design and position of a new facility was discussed at length. The proposed specification is therefore a bespoke design to suit the needs of Newport Cricket Club and engineered to work with the local ground features.

The positioning of an artificial practice facility needs to allow for several design elements including:

- ☑ Orientation
- ☑ Topography
- ☑ Dimensions
- ☑ Local Features

Throughout this proposal these four critical elements will be explored in detail to ensure we create a practice system that is high performing, player / coach focused and bespoke to Newport Cricket Club.

FIGURE 1: ORIENTATION

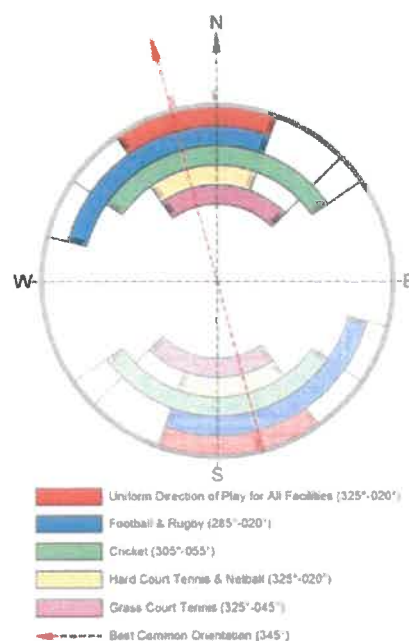
Sport England & the ECB have published guidance on optimum pitch orientation for a range of sports. For cricket, the limits of orientation for cricket pitches are 305° and 55°. Please refer to Figure 1.

The orientation of the planned system is within the limits of the stated Performance Quality Standards (PQS) of a maximum angle of 55° from a true North / South.

The setting sun can cause health & safety concerns when the facility is used in the evenings. As such, orientation can be an important factor and is one of the ECB's pre-requisites for awarding capital grant funding.

TOPOGRAPHY:

The playing surface gradients of a non-turf pitch practice facility are very important. To prevent surface ponding and aid drainage, sports surfaces should not be constructed with a level gradient, however playing performance will be affected by



surfaces with too steep a gradient. Practice facilities which are not constructed to conform to the correct performance gradients might suffer from the following issues:

- ☒ Player comfort
- ☒ Loss of player traction
- ☒ Lateral movement of the ball
- ☒ Exaggerated ball bounce (low or high)

The formation layer upon which the system base will be built, will be prepared by completing a rough grade of the indigenous soil. Upon completion of these initial excavations, the identified area site gradients are surveyed using a laser guided level. The sites gradients before total-play begin system installation must be within Design tolerances set against Performance Quality Standards (PQS) and the current ECB design guidelines for playing surface gradients. Preferably no greater than 1:100 to 1:250 (1 % - 0.4 %) in the direction of play and 1:100 to 1:150 (1 % - 0.67 %) across the line of play.

The original ground levels can be regarded as level and within design tolerances set by the ECB.

DIMENSIONS:

We propose installing a 35m system which is within the limits set out by England & Wales Cricket Board Approved Non-Turf Pitch Codes of Practice.

LOCAL FEATURES:

Newport CC currently have a 4 lane open net system, surrounded by a security fence. It is thought to be between 10-20 years old and the club report the bounce has become increasingly inconsistent. The total footprint of the area measures 37m x 17m. The security fence behind the bowlers arm is currently used to stop straights shots, which leads to loud noises and damage to the fencing. The base of the net system contains loose aggregates 4-10mm in size with limited fine material, which will be a large factor in the system's inconsistent bounce. The aggregate is retained by a timber edge which had rotted away completely in places. To match the club's ambitions of becoming a hub for Glamorgan Women and potentially an outground again, they require off field practice facilities to suit the standard of cricket being played.



LOCATION PLAN WITH PROPOSED SYSTEM IN-SITU:



ACCESS:

The proposed works area can be directly accessed via the football club compound situated SW of the cricket field. If this route is not made available by the football club, the works area can be accessed via the cricket club entrance

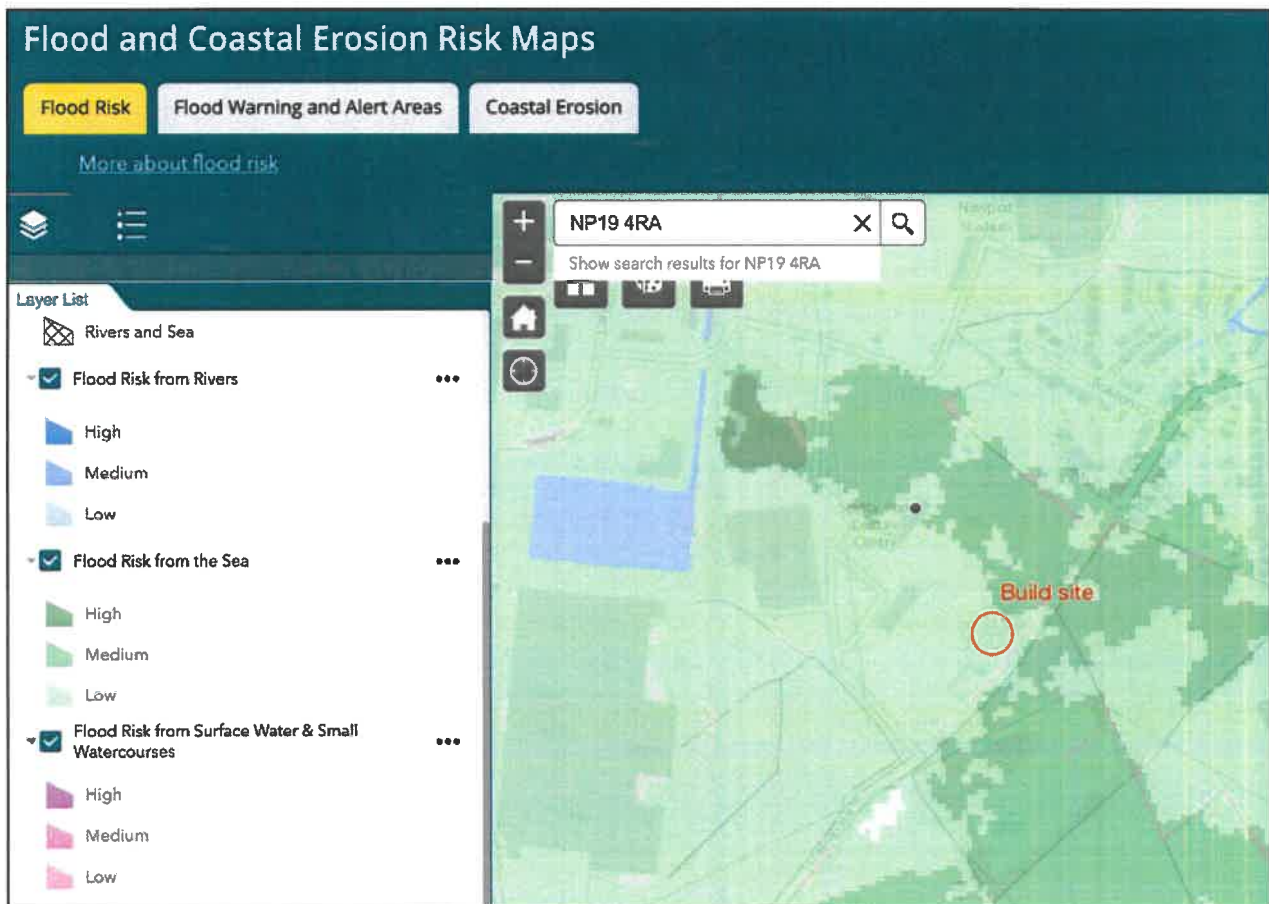
If prevailing ground conditions are wet, it would be advisable to approach the build site around the cricket outfield, crossing approximately 150 m of natural turf. Although every effort will be made to ensure no damage is caused to the outfield during construction works it was highlighted at the site visit that some damage will be unavoidable if the works take place in wet weather.

total-play propose establishing an unloading area on the car park and using part of the car parking area as a site compound.

FLOOD RISK ASSESSMENT:

It is important to understand that the site is located on a flood plain with a low 'Rivers or the Sea'. The proposed location for the new facility has an inherent risk of future flooding to the area.

Conversations highlighted that the area does not flood however in the extreme case that it does, total-play's increased base depth profile will assist in the facility's withstanding of flooding.



DRAINAGE:

No additional drainage is deemed necessary. The proposed location of the new system is believed to not be at direct risk of a water course running through it.

LOCAL SOILS:

The local soil profile and soil characteristics determine the build depth of the new system's stone profile. Therefore, understanding soil mechanics is a vital part of designing a new system.

The TP investigation process explores the local ground conditions to determine its drainage capabilities, the height of the water table, soil stability and soil strength.

GEOLOGY INFO:

The top soil is thought to be a Clayey Loam/Silty Loam soil. The sub base is made up of a Clay/Silt soil which contains a high volume of rounded gravel/stones of various dimensions.

The soil profile showed no signs of continual water logging. Further on-site discussion with the client highlighted that the existing practice area / proposed works area doesn't suffer from regular flooding or water logging.

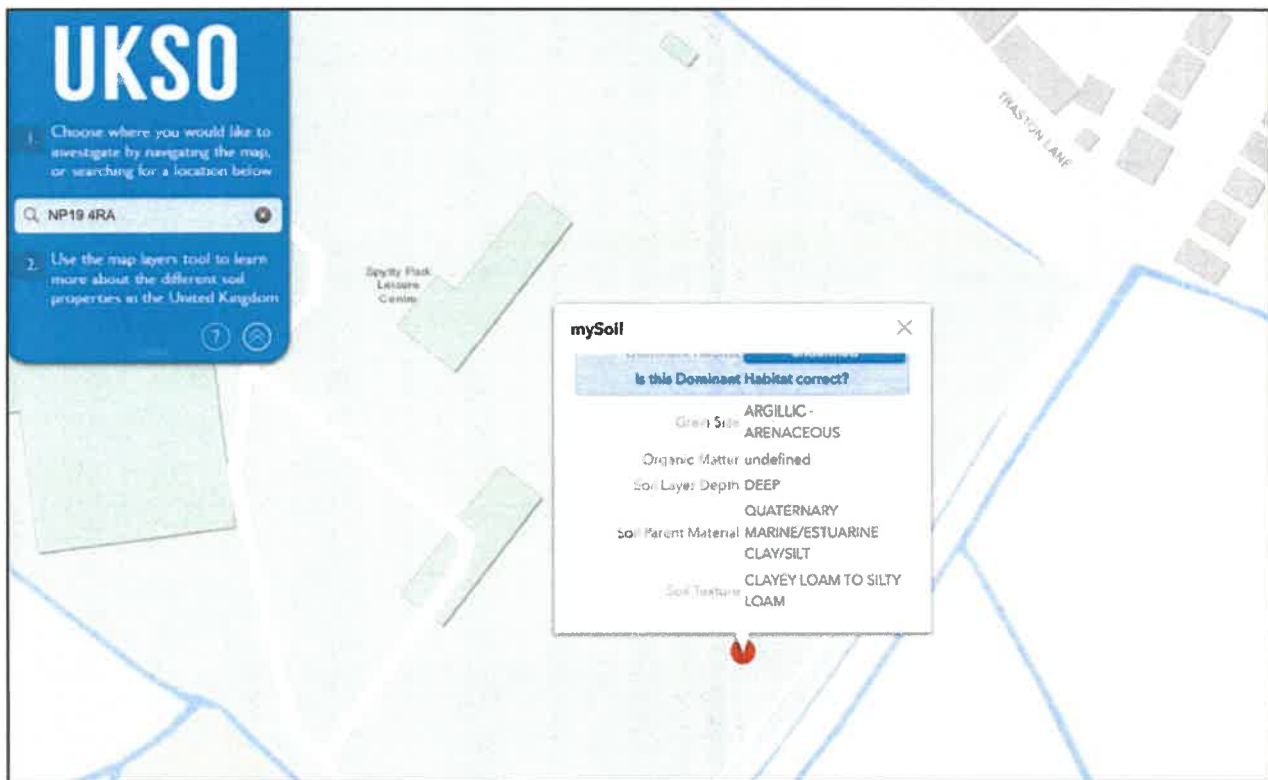
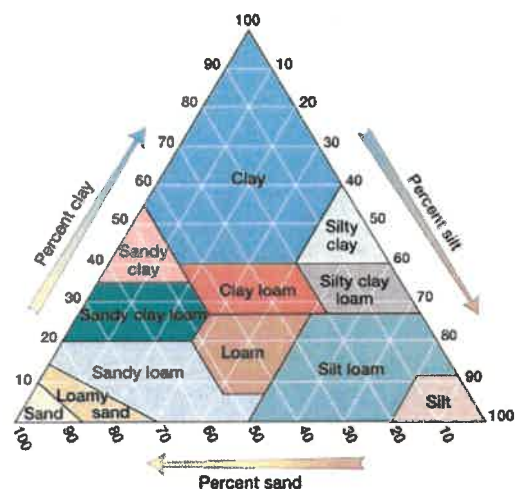


FIGURE 2: TEXTURAL CLARIFICATION OF SOILS



SOIL STRENGTH - CALIFORNIA BEARING RATIO (CBR):

As part of our site investigation process, we recorded the California Bearing Ratio (CBR) of the sub-grade and it was found to be 10%. The CBR is a measurement of the resistance of the sub-grade to deform under load. Within the UK a CBR of 5% or above is regarded as acceptable and a standard 'total-play' design can be used.

TOTAL-PLAY DYNAMIC POROUS BASE

The dynamic porous aggregate profile will be increased from a standard build depth to a profile constructed to a minimum depth of 210 mm. This depth of aggregate will provide a substantial base capable of retaining high levels of tolerance over a sustained period, this will result in high levels of performance being maintained despite continuous use. The proposed design also incorporates concrete and cement kerb frame work giving maximum stability and longevity to the facility.

All designs will comply with the England & Wales Cricket Board Approved Non-Turf Pitch Codes of Practice. (Please view the total-play product information documentation for more information).

SIMILAR TOTAL-PLAY LTD INSTALLATIONS:

1. Abergavenny CC - design and construction of a 3 lane non-turf practice system, works completed June 2019
2. Hereford Cricket Ltd - design and construction of a 2 lane 27m open non-turf practice system, works completed April 2017
3. Colwall CC - design and construction of a 3 lane 33m enclosed non-turf practice system, works completed October 2010
4. Coalpit Heath CC - design and construction of a 2 lane 33m enclosed non-turf practice system, works completed November 2020
5. Down Hatherley CC - design and construction of a 2 lane 27m open non-turf practice system, works completed April 2018

GLAMORGAN CCC - FOUR LANE BESPOKE 'TP365'



6. Hatherley & Reddings CC - design and construction of a 3 lane 33m enclosed non-turf practice system, works completed June 2018
7. Minster Lovell CC - design and construction of a 2 lane 27m open non-turf practice system, works completed April 2012
8. Tondu CC - design and construction of a 2 lane 33m enclosed non-turf practice system, works completed March 2022
9. Glamorgan CCC - design and construction of a 4 lane 35m enclosed non-turf practice system, works completed February 2022
10. Abercynon CC - design and installation of a 2 lane 27m open non-turf practice system, works completed June 2023.
11. Andoversford CC - design and installation of a 2 lane 33m non-turf practice system, works completed July 2023.

MOTE CC - FOUR LANE 33M ENCLOSED 'TP365'



12. West Coker & Hardington CC - design and installation of a 2 lane 33m enclosed non-turf practice facility, works completed May 2024
13. Sparkford CC - design and installation of a 2 lane 27m open non-turf practice facility, works completed May 2024
14. King's School Gloucester - design and installation of a 4 lane 32m enclosed non-turf practice facility, works completed April 2024
15. Taunton School - design and installation of a 6 lane cricket MUGA, works completed September 2023
16. Wells Cathedral School - design and installation of an ECB approved (tp365), 4 lane enclosed non-turf practice facility, works completed August 2021
17. Whitchurch CC, Somerset - design and installation of an ECB approved (tp365), 2 lane enclosed non-turf practice facility, works completed July 2018
18. Hatherley & Reddings CC, Gloucester - design and installation of an ECB approved (tp365), 3 lane enclosed non-turf practice facility, works completed May 2018

To view further case studies please click [HERE](#) or go to our website: <http://total-play.co.uk/case-studies/>

3. PROJECT DESIGN SPECIFICATIONS

PROPOSED DESIGN ELEMENTS OF A 4 LANE 35M ENCLOSED 'TP5T' NTP FACILITY:

The construction of a new four lane non-turf pitch facility includes:

1. SITE PREPARATION:

1. Confirm suitable access routes, offload area and site compound with the client
2. Preparation of all required paperwork (e.g. method statements, risk assessments etc.)
3. Break-down, removal and disposal of the existing system (off site?)
4. Initial excavations and groundworks
5. Access via the cricket club entrance: if access is not possible via the football club compound, additional time on site will need to be allowed for to transport aggregates to and spoil away from the build site.
6. Spoil Removal: A cost will be put forward to remove spoil (waste material brought up during the course of excavation/earthworks) off site on a per load basis. We will determine the approximate volume of waste to be removed off site based on the assumed stone depth. We suggest that TP put forward an estimated number of loads and a cost per load. In the event of more or less material leaving site, this part of the project is completed as an 'open book' exercise. We will provide our best estimate for spoil removal with the actual number of loads paid for by the client.

2. PLAYING SURFACE DIMENSIONS:

- | | | |
|---------------------------|--------|----------------------|
| 1. Individual lane width | 3.65 m | (12 ^{FT}) |
| 2. Length of playing area | 35 m | (114 ^{FT}) |
| 3. Width of facility: | | |
| Four lanes | 14.6 m | (48 ^{FT}) |

3. SYNTHETIC PLAYING SURFACE CARPETS & SHOCK PADS- PER LANE:

'tp5t' ECB approved system 35 m in length: two-tone green with blue borders

A fully carpeted playing surface utilising:

1. 'tp5' premium grade tufted two-tone carpet (green with blue borders): 27 m (89^{FT}) by 3.65 m (12^{FT})
2. 'tp5' premium tufted carpet run-up / skills area: 8 m (26^{FT}) by 3.65 m (12^{FT})
3. 'tp2' batting area pace modifying shock pad: 19 m (62^{FT}) by 3.4 m (11^{FT})
4. 'tp3' bowling area & run-up load absorbing shock pad: 16 m (52^{FT}) by 3.65 m (12^{FT})

DESIGN OPTIONS- 'TP5' PLAYING SURFACE CARPET IS AVAILABLE WITH THE FOLLOWING:

5. Two-tone: Natural 'NPC' with green or blue borders
6. Two-tone: Green with natural 'NPC' or blue borders
7. Single-tone: Green or natural 'NPC'
8. Training Aid: three stump lines woven into the carpet to identify stumps positions and aid junior practice. Available alongside either of the above 'tp5' carpet choices. For further information on this innovative design feature please see design option product sheet for more details.

4. GEO-GRID:

To ensure a stable sub-base, the total-play system could incorporate a flexible geo-grid. This is manufactured from polypropylene and offers bi-axial high strength and low elongation. The grid interlocks with the granular sub-base materials and allows the granular material to partially penetrate and project through the aperture; this creates a rigid and positive interlock, not only between the geo-grid and the granular material but also with the sub-grade. This prevents any migration of base aggregate in to a soft sub-grade and therefore stabilising the whole non-turf facility.

5. 'TP5T' DYNAMIC POROUS AGGREGATE BASE:

TP playing surface carpets are laid onto dynamic porous aggregate performance base. The system is constructed with NO internal frameworks within the playing area. The performance base is constructed as one block using laser guided machinery to provide a trip and ridge free playing area. A unique design which creates consistency, stability and longevity for a practice facility. The system DOES NOT use materials that degrade. Following a site investigation and considering on site conditions and the size of the facility the minimal depth of the dynamic porous aggregate base profile will be: 210 mm

6. EDGE STABILISATION:

To increase the longevity of the installation, a concrete kerb perimeter edge is included in the construction. This supports and anchors the aggregate profile and prevents structural degradation at the surface edge.

7. STEELWORK SYSTEM DIMENSIONS- PER LANE:

35 m enclosed facility

- | | | |
|-----------|---------|--------|
| 1. Height | 4 m | (13FT) |
| 2. Length | 25.55 m | (84FT) |
| 3. Width | 3.65 m | (12FT) |

Run up / bowling area:

4. Side walls - 9.45 m long x 4 m high
5. Back net - 14.6 m wide x 4 m high
6. Access - TP will leave an opening in one of the side walls to allow for pedestrian access, exact position to be confirmed
7. Overhead roof netting - the run up area will not include any over head roof bars or netting

8. STEEL TUBULAR FRAMEWORK COMPONENTS:

1. 48 mm galvanised steel tubes connected with Fast-Clamps
2. Upright poles are placed into a 52 mm galvanised steel tube sockets 500 mm in length
3. Sockets are installed to a depth of 500 mm and secured using concrete
4. A 5 mm steel tension wire and metal Fast-Clamp hooks are used to secure netting components

FRAMEWORK DESIGN OPTIONS:

5. Tubular galvanised steelwork can be 'Powder Coated' in a range of colours including **GREEN** or **BLACK**
6. The opening on an enclosed facility can be fitted with a netted gate to help prevent casual access

9. NETTING SYSTEM:

1. The installation of the exclusively designed and manufactured 'Protection Tunnel'
2. Created using one seamless piece of netting
3. Protection Tunnels include an integrally fixed 5 mm tension wire to hold up and secure down the revolutionary system to the associated steel framework
4. TP Protection Tunnels are built using 3mm diameter, heavy duty (HD) braided polyethylene (PE) finished in a 50 mm mesh knotted configuration
5. Supplied with a '**Five Year Warranty**'

NETTING DESIGN OPTIONS:

6. TP 'HD' netting comes in a choice of **GREEN** or **BLACK**. (please view samples prior to selection)
7. TP 'Protection Skirt' - 500 mm high PVC or Dense Mesh Netting can be fixed to the outside of the system. This protects the netting at ground level against animals and other damage. PVC or Mesh skirts are hung from 5 mm tension wire held and metal hooks fixed to the steelwork. The skirts come in **GREEN** or **BLACK**. (please view samples prior to selection)

10. BATTING CURTAINS:

1. Batting curtains provide an additional physical and visual barrier, protecting the batsman from the adjacent lanes
2. Our batting curtains are made from dense white mesh netting. As standard are 1.5 m or 2 m by 7.2m high
3. The mesh curtains are hung from 5 mm tension wire and metal hooks fixed to the steelwork
4. Your facility will incorporate 'Single' fixed mesh curtains between the lanes. It is possible to upgrade these to incorporate the sides 'Double' or also the sides and back 'Wrap'. Please see design options in project costs

11. INSTALLATION OF SECURITY FENCING: GREY (RAL7035)

If required, TP can replace the damaged rebound panels behind the batting end of the existing system.

Dimensions:

1. Total height: 3.65 m with cranked top
 1. Height of 868 Rebound fencing to be replaced: 2.4m
2. Length: 17 l/m
3. Single post to be replaced to allow for access to the build area: 3.65m, including cranked top

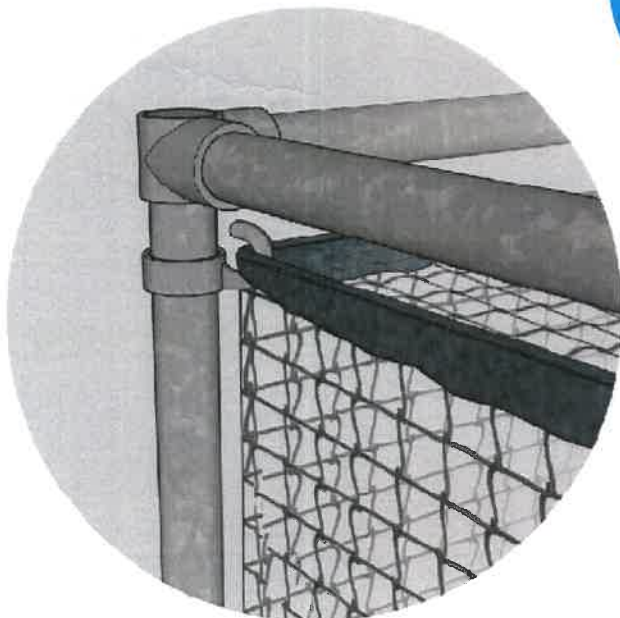
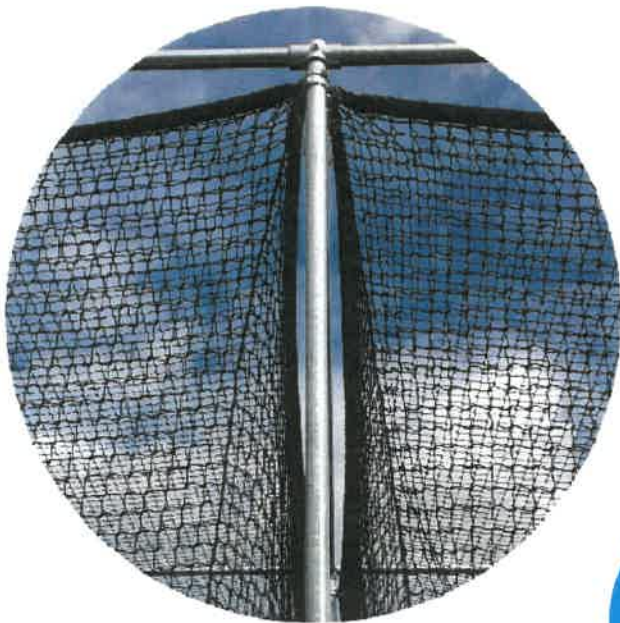
PERIMETER SAFETY PATH:

The security fence will be positioned 1m from the netting system. The gap between fence and playing area will be finished with either:

4. A weed prevention mesh covered with clean primary stone
5. An artificial grass carpeted path

HD PROTECTION TUNNEL NETTING

Our proposed design includes the innovative total-play Protection Tunnel netting system, this will ensure that each individual lane is enclosed, protecting the batsman and preventing balls from escaping into adjacent lanes or out of the system. The HD Protection Tunnel netting system comes with a 5 year warranty covering any damage caused solely by use. Any damage caused by a third party (i.e. rabbits, pests, mowers, vandalism etc.) can be repaired at a cost by TP.



Our exclusively designed and manufactured HD 'Protection Tunnel' netting design creates an individual tunnel for each lane, providing a double layer of net between each lane.

HD 'Protection Tunnel' netting is proven to be easier to install and take down than other netting systems currently being used by a number of our rivals. a significant advantage for clubs with limited ground staff / groundsman.

Another major advantage of the HD 'Protection Tunnel' netting system is the innovative fixing mechanism. We use a 5mm high tension wire, encapsulated within a 90 mm PVC sleeve at the top and bottom of the steelwork, fixed using metal hooks onto our 4 m steel uprights, this means there is no need for cable ties or yarn and therefore less wear and pinch points. This significant advantage ensures the netting is much more sustainable than traditional netting systems.

WHY CHOOSE AN ENCLOSED FACILITY?

In contrast to traditional 'open' non-turf practice facilities, our proposed 'enclosed' system will provide a bespoke facility offering a number of benefits:

- Enclosed systems provide the client with a large multi-use / skills area inside the facility that can be used for a range of activities including throw-down drills, stretching, warm ups and fielding practices.
- The system is effectively 'an indoor practice area built outside'. This allows the practice area to stay as a clean facility ensuring the playing surface carpet can remain usable for a longer period of time
- Enclosed practice systems offer an enhanced steel framework which significantly helps ensure that the ball cannot escape and hit neighbouring cars / spectators / general public etc.
- Enclosed practice systems come complete with a white netting wall at the bowlers end. This ensures the practice facility is usable at all times of the day regardless of the sun position and associated glare.
- Enclosed systems offer an increased level of security to both users and the Club. An enclosed system design may negate the need for installing additional security fencing - this could be a significant cost saving to this project.

