

**New Forest District outside the New Forest National Park**

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**A Guide to Performance Specifications and Standard Details for  
Public Accessible Spaces**

*Cutdown Draft*

*November 2020*

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## 1.0 Introduction

### 1.1 The Purpose of this Document

To set out the required standards for elements within publicly accessible spaces provided as part of planning permission

- 1.1.1 All new publicly assessable spaces created as part of a development should be designed and implemented to a high quality, with durable, well-constructed features and assets that are maintainable.
- 1.1.2 The performance specifications and details are not exhaustive but set a base line for the minimum requirements for the various landscape components and elements of schemes.
- 1.1.3 This document is not intended to limit the design opportunities for high quality development. There will be circumstances where a bespoke or improved alternative design solution may be agreed.

## 1.2 Structure of this document

### 1.2.1 Performance Specification

This section sets out NFDC's minimum performance requirements.

### 1.2.2 Detailed design elements

This section sets out NFDC's standard construction details and design elements. These construction details will provide certainty regarding the employment of appropriate materials and construction methods to ensure that they meet the design and quality standards required by the Council

## 2.0 Performance Specifications

2.0.1 Detailed landscape proposals / frameworks for publicly accessible spaces need to consider a wide range of assets and elements. The following section sets out NFDC's expectations and signposts other relevant guidance.

### 2.1 Existing Ecological Assets

2.1.1 Landscape proposals / framework will need to consider and where appropriate improve existing habitats and meet NFDC's ecological standards. [Refer to emerging ecology guidance.](#)

### 2.2 Tree Retention

2.2.1 Any landscape work will need to meet NFDC's tree standards. [Refer to NFDC's Tree Protection and Development Guidance.](#)

### 2.3 Proposed Planting

2.3.0 Plant species should be carefully considered, being appropriate in scale for its setting and maximising its long-term benefits. NFDC's preference is for species native to Britain, to optimise biodiversity and perpetuate the existing local character. Occasionally ornamental species may be required to underpin landscape character and/or create a sense of place, offering landmarks or visual connections and legibility.

#### 2.3.1 Proposed Planting - Trees

- 2.3.1.1 New pioneer woodland, new mixed woodland and the enhancement of existing woodland groups and tree stands need to be shown in the proposals. The main aim of woodland groups are as amenity asset to walk amongst and offer an enhanced habitat.
- 2.3.1.2 For individual trees or smaller groups, a three-tier strategy for specimen planting should be clearly shown, ensuring each has the right conditions and space to reach maturity:
- Significant species trees selected from woodland climax species and given enough space to grow to maturity. These should be strategically located within the layout to form a long term and defining characteristic of the neighbourhood.

- Medium species trees which are intended to soften impacts through presence on skyline, definition of spaces or streets or through separating and creating a foil between activities.
- Smaller or lighter canopied trees which offer a more transient amenity, or for variety and colour within confined spaces, or as part of community orchards or edible landscape. It is expected that the designer will combine all the tree planting types as an intrinsic and defining part of a landscape strategy.

2.3.1.3 Developers should be aware of the [Council's corporate tree strategy.](#)

#### 2.3.2 Proposed Planting – Grasslands

2.3.2.1 Amenity grassland (short sward grass) will be where activity and views are often focussed. Highlights of schemes where a central green or a high-quality margin is needed or where low-key sports and games are expected (in a non-club setting), will usually have this type grassland. The aim is to offer active use of grassland suitable for a variety of purposes including informal games, walking, picnicking or sitting out.

2.3.2.2 Amenity grassland (longer sward grass) will be where a path or road margin needs to be kept clear, where margins of meadow need to offer an appearance of care and definition or where occasional summer clearings or paths need to be mown out to improve access within more natural settings. The idea is to keep the grass tidy, offering a consistent year-round green setting and invite low key uses. There may be occasion to combine this with drifts of bulb planting

2.3.2.3 Species rich grassland should be used where the opportunity arises to create a varied meadow through new seeding. Areas where topsoil is stripped off or existing soils are of poor nutrient quality will suit. Such areas might be created in margins to woodland or as part of dry SuDS schemes, embankments or sloping ground where re-profiling is part of the design. The aim should be to create a diverse grassland species mix including wildflower content that is not only valuable to birds and insects but offers seasonal colour. Occasionally plug

planting or the use of bulbs will be needed to ensure a strong enough impact.

2.3.2.4 Rough meadow grassland may be appropriate in areas where a wilder more natural aesthetic can predominate. Enhancing the species diversity of existing grasslands will be the aim for the same purposes as species rich grassland above. Altering soil condition and nutrient levels through management will be important to create favourable conditions and encourage diversity e.g. removal of arisings, use of yellow rattle.

#### 2.3.3 Proposed Planting - Shrub and Perennial

2.3.3.1 Hedges will be needed to define spaces or margins and create diverse boundaries. Mixed native shrub and tree species should offer diversity for seasonal colour and wildlife benefits. Occasionally there may be a need for ornamental hedges in more highly maintained areas. Typically, three types:

- A typical field hedge type species mix for defining spaces and creating barriers
- A similar mix with a greater proportion of evergreen species to retain the screening qualities throughout the seasons
- A low thorn mix omitting some of the most severe thorn species for use alongside playgrounds or alongside paths, cycle ways and entrances.

2.3.3.2 Existing hedgerows that are to be retained should be clearly identified and will need specialist management operations to bring them into a condition whereby they fulfil one of these three roles.

2.3.3.3 Each hedge should be robust enough to defend a boundary at maturity, designed to be maintained at either chest height or head height. Depending upon whether it is intended to block views or define boundaries whilst retaining views.

2.3.3.4 Other shrub areas will be small elements of amenity planting close to areas of activity or where more formal aspects of the layout demand a more highly maintained or colourful highlight.

2.3.3.5 Areas of amenity perennials may be used to augment amenity shrub planting. These should be kept to species which are robust in the public realm and which require a

low level of maintenance. Grasses and bulbs are expected to form the majority of such groupings.

## 2.3.4 Proposed planting - Wetland and Waterside

- 2.3.4.1 The planting will should be designed so that it is either a mixture of non-woody perennials, periodically cut down to low levels or is a permanent and evolving margin with a more detailed management schedule. On shallow slopes it should offer diversity, seasonal colour and texture but allow rubbish removal and clear cutting. Some margins will need to employ planting to discourage access and alert the user to the presence of water, discouraging children. Steeper slopes need careful consideration as they will be difficult to manage.

## 2.4 Routes (and hard surfacing)

- 2.4.1 The landscape proposals / framework should set out the hierarchy of routes as a component of the design. The performance of each tier of that hierarchy will require the use of appropriate widths, materials and edgings to define and cater for its purpose. Routes should be either tarmac or self-binding hoggin surfaces however mown paths are acceptable where only seasonal use is expected. A choice of edge constraints to offer strength and durability as well as a sense of quality and character are described in section 3.4. Routes should be suitable for everyone and gradients should be Disability Discrimination Act compliant unless alternative acceptable routes are to be provided or shown to be available.

## 2.5 Boundaries and Gateways

- 2.5.1 Publicly accessible spaces should generally be welcoming and unfenced. However, definition for such spaces should be made clear by using appropriate features to define public/private spaces, edges and differing uses or intensity of activity. Where gates are required to provide defined points of public access, and where spaces are enclosed, access for maintenance will also be required. A choice of boundary types and gates is described in section three. Where boundaries are close to streets and active areas or where they are adjacent to areas of frequent grass cutting, any vertical structures will need to include mowing margins or be placed within the edge constraint or material of an adjacent hard surface.

- 2.5.2 Where boundary structures are only required to prevent vehicle encroachment, a bund and ditch combination should predominate, taking the place of unnecessary rows of bollards or fences that would otherwise be visually detrimental.

- 2.5.3 Where off lead dog areas are close to roads or carparks boundary structures may be required however these areas should normally be situated well away from vehicles.

## 2.6 Furniture and Facilities

- 2.6.1 Seats and benches should be comfortable and visually attractive. They should be constructed from sustainably sourced hardwood or a combination of other durable materials. Each seat or bench needs to have a hard-surfaced plinth constructed from mortar jointed blockwork on concrete base with integral steel lugs to bolt to timber legs making the replacement of seats a simple matter of cutting off and re-bolting the new product.

Opportunities for bespoke seats and benches at key locations may be appropriate, especially where they include involvement by the local community in artwork and design.

Part 3 describes a preferred choice of seat types.

- 2.6.2 Landscape proposals / framework should create landscape features which encourage people to meet, sit and even provide landmarks and destination points of interest. These can be formed from stone or boulders, logs or timber, or use the landform. Designers should assess hazards inherent in their designs, reducing risk of injury by ensuring that features appear as naturally as possible so that users make their own risk assessment as to how they might use it, and don't expect higher degrees of maintenance than might be practical.

- 2.6.3 The Council operates a combined system for dog waste and litter. Each bin should be aesthetically appropriate in the landscape and include a robust and smart plinth to allow mowing close alongside. Part three offers approved manufacturers and required details.

## 2.7 Interpretation and Signage

- 2.7.1 Should meet NFDC's signage standards. [Refer to emerging signage guidance.](#)

## 2.8 Water and Drainage Features

- 2.8.1 A green infrastructure approach to the provision of open green spaces offers an opportunity to integrate the policy requirements for managing surface water from new residential developments in the form of above-ground Sustainable Drainage System (SuDS) features such as ditches, swales, storm water storage areas and ponds.
- 2.8.2 Such SuDS features should be included in the layout and landscape frameworks and may be included in the layout of public open space provided that they enhance landscape character, optimise biodiversity, and offer amenity and play opportunities. It is preferable that such features are above ground.
- 2.8.3 There are many issues that will require detailed consideration in the adoption and ongoing management of SuDS features: where they are proposed, careful attention to detail is required to ensure that safety is properly considered as part of an accessible public space and so that they can be adopted and managed as a positive part of the green infrastructure. A full maintenance proposal (including access) for such features should be provided as part of any planning application.
- 2.8.4 Where features (such as simple underground storage tanks for highway drainage) are not acceptable within the public open space calculations, they will still need to be designed in sympathy with the wider landscape. For maintenance purposes such spaces fall outside of the scope of this document. However, there may still be the opportunity for the Council to adopt or manage them, but this must be through separate negotiation

## 2.9 Play Spaces and Play Facilities

- 2.9.1 Defined play spaces are expected to be integral to open green spaces. Refer to emerging Design Guidance for Children's Play. [Refer to emerging Play Space and Facilities guidance.](#)

## 3.0 Standard Elements and Details

- 3.0.1 Many of the built features will be the same across different sites and therefore standard design details are provided. Many of the soft landscape components, when combined, will have similar management aims to create structured, attractive and colourful amenity that also benefits wildlife.
- 3.0.2 It is not the Council's intention to be unnecessarily prescriptive and each element may be substituted by agreement provided that the performance criteria and the aims of the Council are adhered to (alternative details may be subject to additional maintenance costs).

## 3.2 Proposed Planting

Optimising biodiversity as well as amenity through planting, by a combination of habitat types and sensitive species selection. A planting plan will be required indicating species, stock size and densities, distribution or mixes, preparation treatments, mulching, pest protection and staking where necessary, including details of grass seed mixes and sowing rates for open areas subject to mowing or cutting:

Bio security of plant material is an increasing concern, especially for imported planting stock. Evidence of provenance may be required together with certification of clean stock.

Reference	Habitat type or detail feature
<b>Proposed planting - trees</b>	
T1	Pioneer woodland
T2	Mixed woodland planting
T3	Complex mixed woodland planting
T4	Individual standard tree planting
<b>Proposed planting – grasslands</b>	
G1	Amenity grassland -short grass sward
G2	Amenity grassland - longer grass sward
G3	Special cut areas - embankments, path margins
G4	Species rich grassland and wildflower meadow – specifically created with low fertility soils etc.
G5	Existing rough grassland - tall grass with some wildflowers coming through – allowing existing grassland to grow tall
G6	Grass sports pitches
<b>Proposed planting - shrub and perennial</b>	
S1	Hedgerows - new native
S2	Hedgerows - existing native
S3	Hedgerows - new ornamental
S4	Tall hedges

S5	Ornamental shrub planting
S6	Ornamental perennial planting
<b>Proposed planting - wetland and waterside</b>	
S7	Stream and riverside vegetation
S8	Wetland Habitat

## 3.4 Routes (and Hard Surfacing)

Which are attractive, safe and maintainable - pedestrian, cycle and occasionally bridleways links. The dimensions, materials, edge constraints and transition points (surface changes), as well as any bridges, boardwalks or other special sections:

Reference	Habitat type or detail feature
R1	<b>Paths</b> Tarmac (pedestrian and cycleways only)
R2	<b>Paths</b> Tarmac (vehicle)
R3	<b>Paths</b> Pedestrian path using 'no dig' construction
R4	<b>Paths</b> Hoggin footpath, no edgings, variable widths
R5	<b>Paths</b> Hoggin paths with timber edgings
R6	<b>Paths</b> Bridleway 3m path
R7	<b>Transition detail</b> Tarmac to hoggin path
R8	<b>Paths</b> Pedestrian small unit paving areas
R9	<b>Edgings</b> Conservation kerb
R10	<b>Edgings</b> PCC edging and feature conservation edging
R11	<b>Edgings</b> 38mm timber edging
R12	<b>Standard boardwalk</b>
R13	<b>Boardwalk with Handrails</b>
R14	<b>Culvert</b> Single or multiple pipe
R15	<b>Footbridge</b> Proprietary hardwood footbridge
R16	<b>Footbridge</b> Light duty GRP deck...
R17	<b>Steps</b> Hardwood timber substructure to slope, gravel infill

### 3.5 Boundaries and Gateways

To deter car encroachment, protect children or animals from hazards; to define or protect planting areas; or to define the edges of the site and internal boundaries. The construction, materials and dimensions of the boundary feature as well as end points, corner features, entry gaps and gates

Reference	Habitat type or detail feature
B1	<b>Fencing</b> 1.2m high hooped top railing
B2	<b>Fencing</b> Traditional continuous bar estate railing
B3	<b>Fencing</b> Temporary plant protection – post and mesh
B4	<b>Fencing</b> Temporary plant protection – post and wire
B5	<b>Fencing</b> Timber post and mesh fence with top rail
B6	<b>Fencing</b> Cleft chestnut post and rail
B7	<b>Fencing</b> Hardwood post and rail, with optional mesh
B8	<b>Fencing</b> Knee rail
B9	<b>Gateway</b> Badger gates
B10	<b>Gateway</b> Pedestrian timber
B11	<b>Gateway</b> Pedestrian steel
B12	<b>Gateway</b> Vehicular timber
B13	<b>Gateway</b> Vehicular steel
B14	<b>Gateway</b> Pedestrian steel RADAR kissing gate
B15	<b>Gateway</b> Bollards
B16	<b>Gateway</b> Collapsible bollards
B17	<b>Gateway</b> Dragons teeth
B18	<b>Gateway</b> Ditch and bund combinations

### 3.6 Furniture, Features and Signage

Details of seating, bins, lighting where necessary, signage (of routes) and interpretation of the Recreational Mitigation features.

Reference	Habitat type or detail feature
F1	<b>Seating</b> Hardwood timber seat or bench
F2	<b>Boulders</b> Rounded profile
F3	<b>Boulders and logs</b>
F4	<b>Combined litter and dog waste bins</b>
F5	<b>Cycle parking stands</b>
F6	<b>Interpretation board</b>
F7	<b>Waymarker sign</b>
F8	<b>Totem pole/entrance feature/ sign</b>
F9	<b>Notice boards</b>
F10	<b>Instructional signs</b> (eg dog gym)

### 3.7 SuDS and Watercourses

Details of depths, gradients and finished levels of water courses, ditches, holding ponds, scrapes and swales, as well as details of any pipework, culverts or outflows. Including any underground encumbrance such as traditional soakaways or crated surface water storage feature, in gardens, green space on streets or within open green space: the locations and predicted restrictions of any otherwise unavoidable underground pipe, cable or tank as well as details and finished levels of access covers.

Reference	Habitat type or detail feature
W1	<b>Outflow</b> Small unit paver
W2	<b>Outflow</b> Brick retaining structure and concrete pipe
W3	<b>Outflow</b> Sleeper and boulder seepage outfall
W4	<b>Typical dry swale</b>
W5	<b>Typical wet swale</b>
W6	<b>Typical filter and infiltration drains</b>
W7	<b>Damming structure</b>
W7	<b>Safety rails</b>
W8	<b>Dry pond banks</b>
W9	<b>Wet pond banks</b>

### 3.8 Play Facilities

Details of play equipment, surfaces, activity and fall zones, as well as details and sections explaining informal enhancements of landscape for play purposes e.g. banks, dips, boulders, logs or even tree trunks which are to be placed as part of a defined play area.

Reference	Habitat type or detail feature
P1	IAS – Bonded Rubber Mulch
P2	IAS – Rubber Crumb Wetpour
P3	IAS – Grass Mats
P4	Green artificial turf style play surface
P7	Signage
P8	Play inspection
P9	Replacement

### 3.9 General Maintenance Operations

General maintenance tasks applicable to all open green spaces

Reference	Habitat type or detail feature
M1	Weed Control
M2	Litter picking
M3	Sweep roads

# Glossary

## **Amenity value**

The idea that something has worth because of the pleasant feelings it generates to those who use or view it

## **Biodiversity**

The wide variety of plant and animal species in their natural environment

## **Commuted sum**

The estimated cost of maintaining and renewing Open Green Spaces collected via a S106 Agreement

## **Design and Access Statement (DAS)**

A required document of the planning application process outlines the design principles and concepts that have been applied to the development proposals, including access arrangements

## **Design Elements**

The details of the design of the proposed landscape components

## **Ecosystem services**

The benefits provided by ecosystems that contribute to making human life both possible and worth living

## **Formal Open Space**

The provision of sports pitches and associated infrastructure

## **Green Infrastructure (GI)**

A network of multifunctional green spaces and features, urban and rural, which is capable of delivering a wide range of environmental and quality-of-life benefits for local communities and the wider world

## **Greenfield**

Previously undeveloped land

## **In perpetuity**

In a planning context 80 years is considered to be 'in perpetuity'

## **Informal Open Space**

Public Open Space that is provided for informal recreation by all members of a local community, including play areas

## **Landscape Character**

A distinct recognisable and consistent pattern of features in a landscape that makes one landscape different to another

## **Landscape Components**

Individual landscape features that, in combination, are the Green Infrastructure

## **Landscape Framework**

A required document of the planning application process (Local List for Major applications), illustrating existing and proposed green infrastructure

## **Local Nature Reserve (LNR)**

A statutory designation relating wildlife, geology, education or public enjoyment, created by Local Authorities and managed for the natural features which make the site special.

## **National Planning Policy Framework (NPPF)**

## **Non-Strategic Sites Allocation**

Sites allocated for less than 100 homes

## **Open Green Spaces**

The combination of Public Open Space, Recreational Mitigation Land and play areas in all its forms as required by Local Plan policies

## **Public Open Space**

All open spaces that have value to the public for health and recreation purposes

## **Alternative Natural Recreational Greenspace (ANRG)**

The provision of natural greenspace close to people's doorstep forming a desirable alternative to visiting the most sensitive areas of the New Forest National Park and Solent Coast, especially for dog walking.

Sometimes referred to as SANG (Site of Alternative Natural Greenspace) or ANRGS (Alternative Natural Recreational Green Space)

## **S106 Agreements**

Multilateral Legal Agreements used in combination with Planning Permission to secure particular aspects of development, such as financial contributions and transfer of land into public ownership

## **Site of Interest for Nature Conservation (SINC) or Local Wildlife Site**

Non statutory sites of local importance for nature conservation identified by county councils and wildlife trusts and give some level of protection by local planning policies

## **Strategic Sites Allocation**

Sites allocated for 100 or more homes and associated infrastructure

## **Supplementary Planning Document (SPD)**

Additional guidance to support the delivery of Local Plan policies

## **Sustainable drainage systems (SuDS)**

Surface water drainage systems that are designed to reduce or delay runoff by mimicking the way rainfall drains naturally, to reduce flooding risk



**Typical native hedge species mix:**

Refer to ecological and arboricultural reports to identify site specific species to include that reflect local landscape character, but generally the mix below is suitable for all landscape character types.

Hedgerow trees, predominantly oak, are a feature of local landscape character types - refer to NFDC Landscape Character Assessment (2001) for further details.

Assume locally found, competitive species such as SALIX and SAMBUCCUS will colonise naturally.

Only use TAXUS and CORNUS on chalk or very well drained soils.

Add ULEX in coastal and heathy locations

**Trees**

QUERCUS Robur Oak 7-15m centres

**Shrubs**

CRATEGUS monogyna	Hawthorn	30%
PRUNUS spinosa	Blackthorn	20%
CORYLUS avellana	Hazel	20%
ACER campestra	Field Maple	10%
ILEX aquifolium	Holly	10%
ROSA canina	Dog rose	5%
VIBURNUM opulus	Guelder rose	5%

**Typical evergreen hedge species mix:**

**Trees**

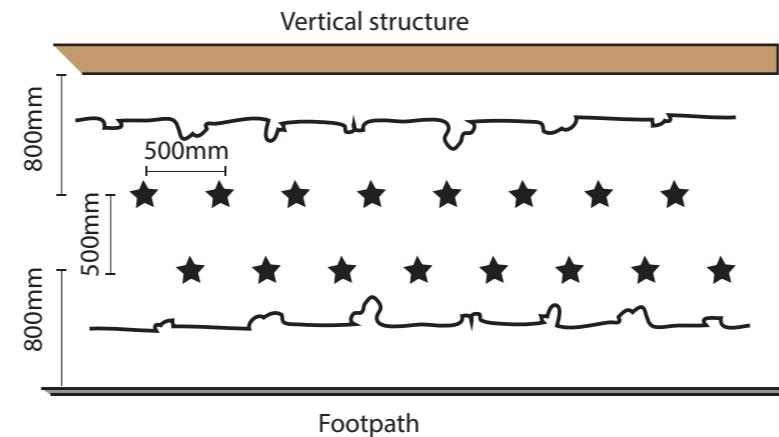
QUERCUS Robur Oak 7-15m centres

**Shrubs**

ILEX aquifolium	Holly	40%
LIGUSTRUM Vulgare	Privet	40%
VIBURNUM Tinus		20%

**Typical no thorn native species mix:**

CORYLUS avellana	Hazel	25%
ACER campestra	Field Maple	20%
VIBURNUM opulus	Guelder Rose	20%
LIGUSTRUM Vulgare	Privet	25%
EUONYMUS Europaea	Spindle	10%



**Typical planting layout 1:50**

**Specification**

All planting stock to conform to the National Plant Specification, but generally:

**Stock Size:** 1+2 transplanted whips (90-120cm) or 3litre containerised stock and 10-12cm Standard trees

**Density:** 4 per linear meter, planted in a double staggered row, 500mm between plants and rows. Trees to be planted at 7-15m centres where required and at each end of the hedgerow.

**Species grouping:** Plant in groups of 3-7 of same species, distributing evergreen species evenly over total length.

**Protection:** 600mm clear spiral rabbit guards and post and wire or mesh fence (see B3 and 4), tube guards for standard trees

**Planting:** Trench planted, ensure trench is wide enough to accommodate spread roots, ameliorate backfill with 50% organic matter

**Mulch:** 75mm bark much to entire planting trench.

**Location:** 800mm from adjacent vertical structure and/or 500mm from adjacent hard surface.

Use root barriers where required.

Tag standard trees to easily identify during annual cut.

**General Notes:**

- 1 All units are in millimeters unless otherwise stated.
- 2 Do not scale dimensions from this drawing.
- 3 Timber shall be free from splits and twists.
- 4 Units weighing in excess of 20kg must not be handled by a single person. A risk assessment must be carried out to ensure safe handling.



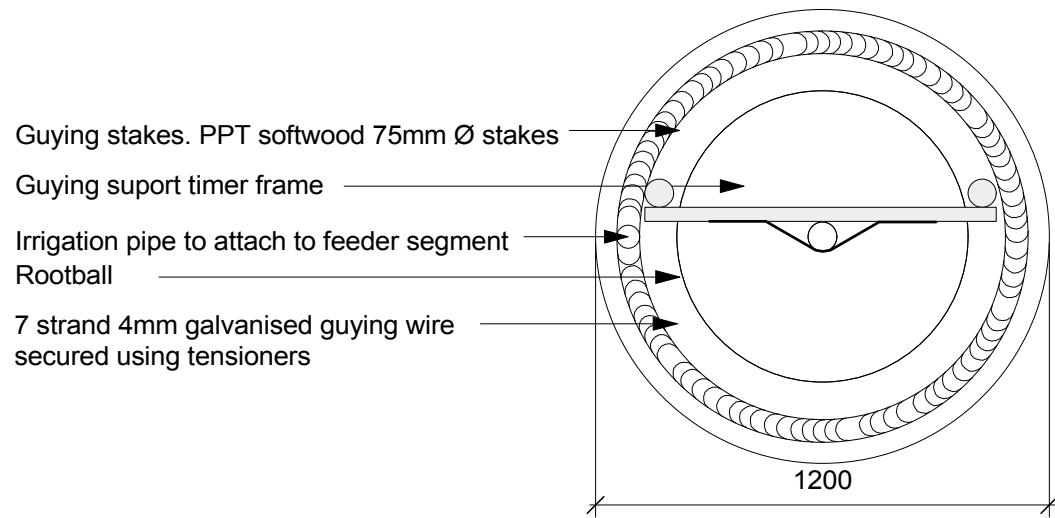
Environmental Design Team Planning Services Appletree Court Beaulieu Road Lyndhurst SO43 7PA 023 80285000

**STANDARD CONSTRUCTION DETAILS for Open Green Spaces**

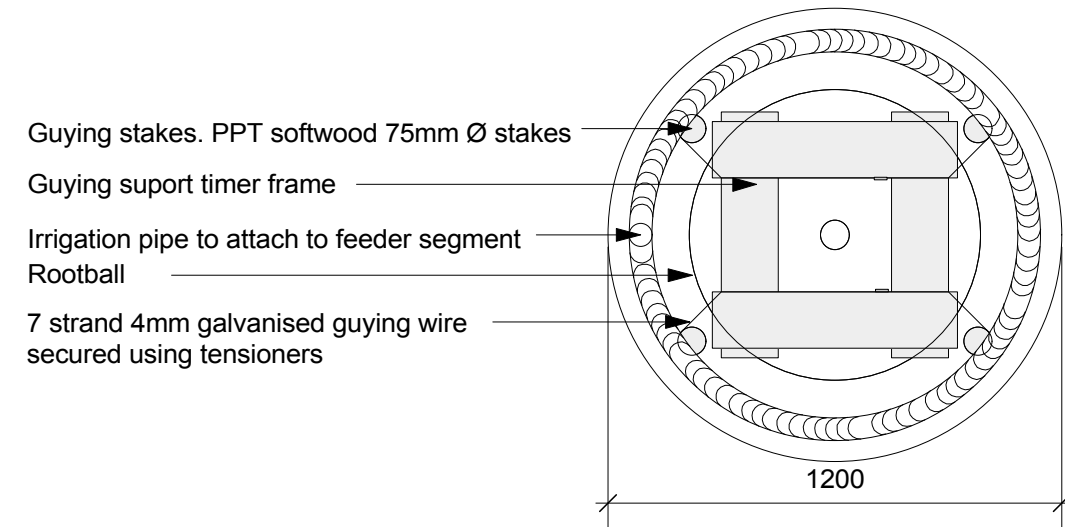
**HEDGEROWS -New Native (with trees)**

**NOTES**

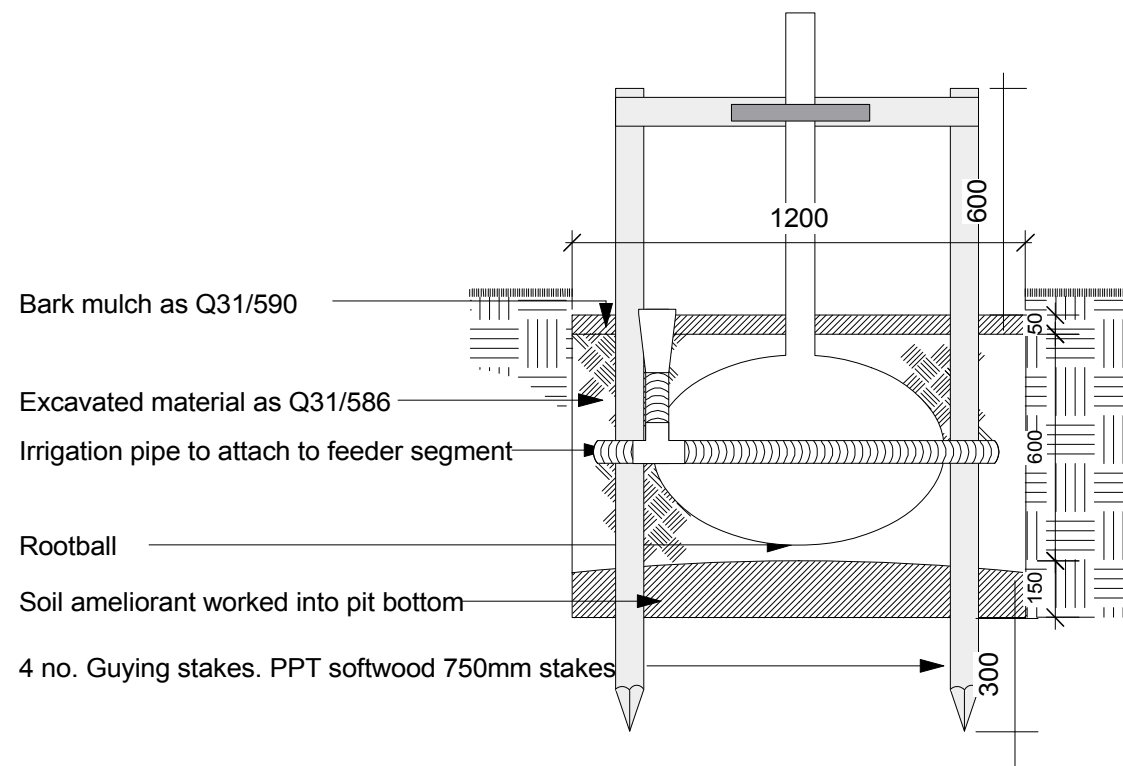
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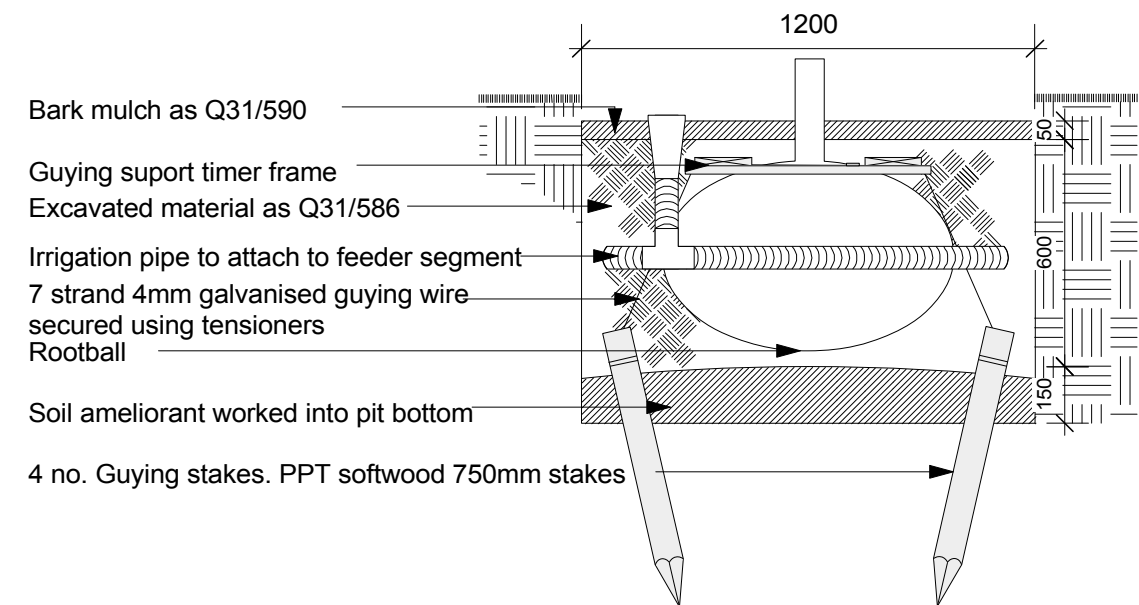
Q31 Typical plan tree pit detail where tree located in soft landscape Scale 1:20



Q31 Typical plan tree pit detail where tree located in soft landscape Scale 1:20



Typical section tree pit detail where tree located in soft landscape Scale 1:20 @ A3  
Standard / Extra heavy standard tree



Typical section tree pit detail where tree located in soft landscape Scale 1:20 @ A3  
Feathered / semi mature container grown trees

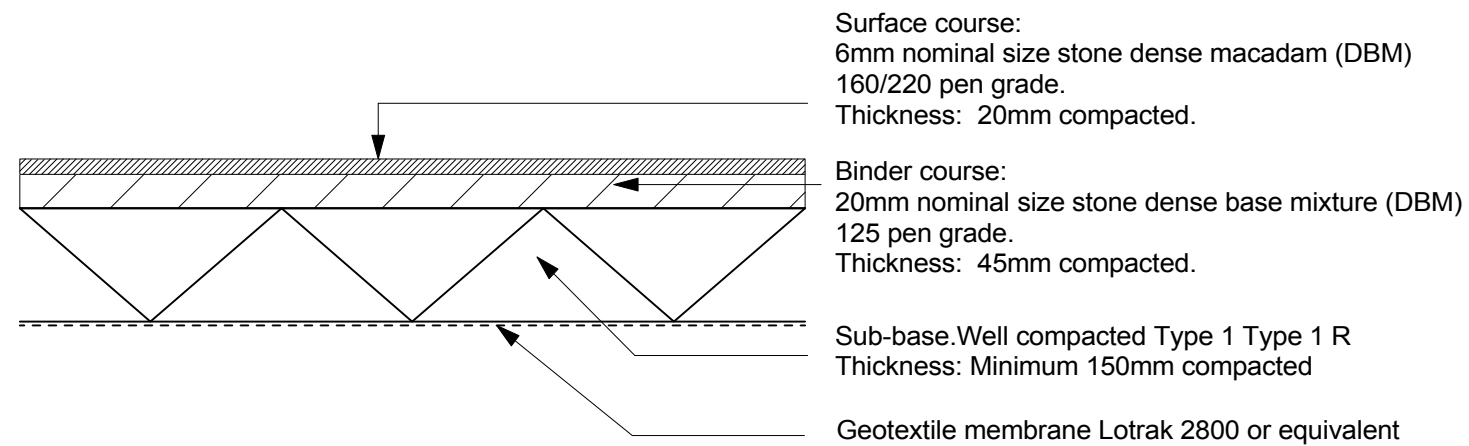
Notes:

1. Stakes should be inserted on the side of the prevailing wind so that the tree is blown away from the stake

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rev	description	date	by

PROJECT				SHEET CONTENTS	
<b>New Forest District Council</b>				<b>SANG and POS</b>	
<b>Appletree court, Beaulieu Road</b>				<b>Standard Details</b>	
<b>Lyndhurst, Hants. SO43 7PA</b>				<b>Tree pit details</b>	
SCALE	DATE	DRAWN.	CHKD.	DRAWING No.	REVISION
1:20 @ A3	Feb. 2018	GB	--	FILE REF. <i>File name</i>	



**R1 Paths:** tarmac, pedestrian and cycleway Scale 1:10 @ A3

**NOTES:**

1. Standard width of 1.5m for pedestrian only footpaths, 3.0m wide for footpath / cycleway unless specified otherwise.
2. Materials and workmanship to BS 4987-1 and -2.

**General Notes :**

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2. Do not scale from this drawing.
3. Timber shall be free of splits and twists.
4. Units weighing in excess of 20kg must not be handled by a single person. A risk assessment must be carried out to ensure safe handling.

Drawn By  
**HCC**  
Property Services

**New Forest**  
DISTRICT COUNCIL  
**Green Way**  
SPACES FOR PEOPLE AND WILDLIFE  
Environmental Design Team Planning Services Appletree Court Beaulieu Road Lyndhurst SO43 7PA 023 80285000

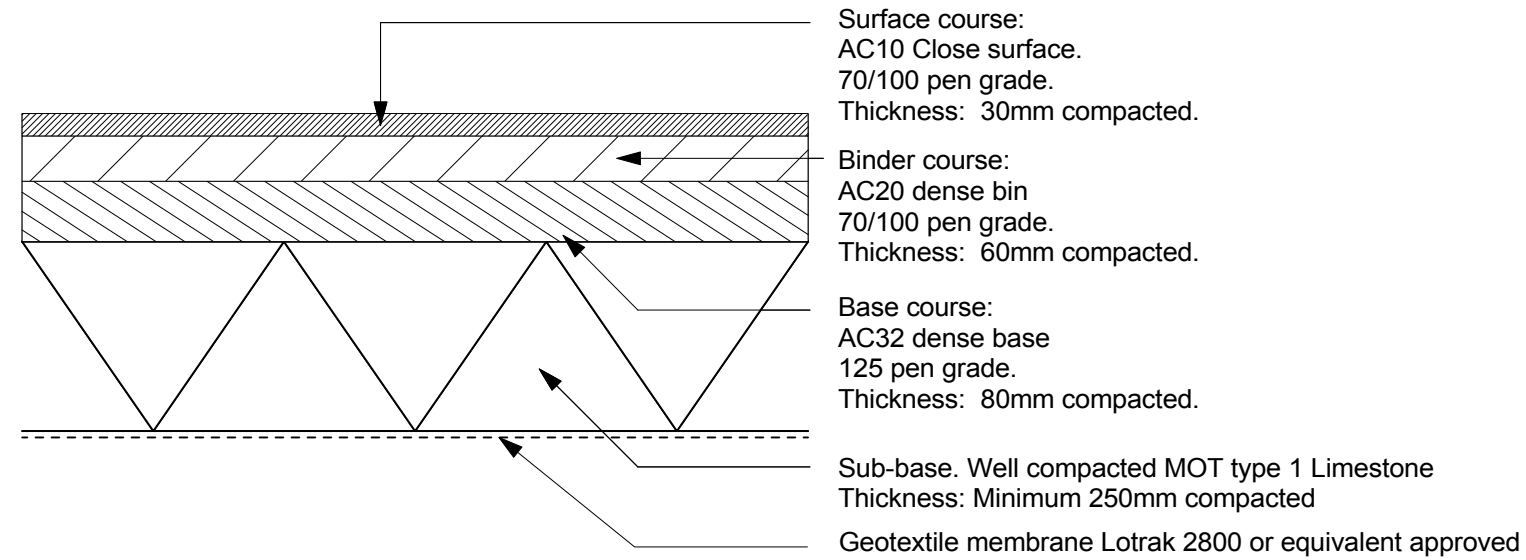
**STANDARD CONSTRUCTION DETAILS  
for Open Green Spaces**

**PATHS: TARMAC, PEDESTRIAN AND CYCLEWAY**

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**R1**



**R2** Paths: Coated Macadam Pavings: Vehicular Scale 1:10 @ A3

**NOTES:**

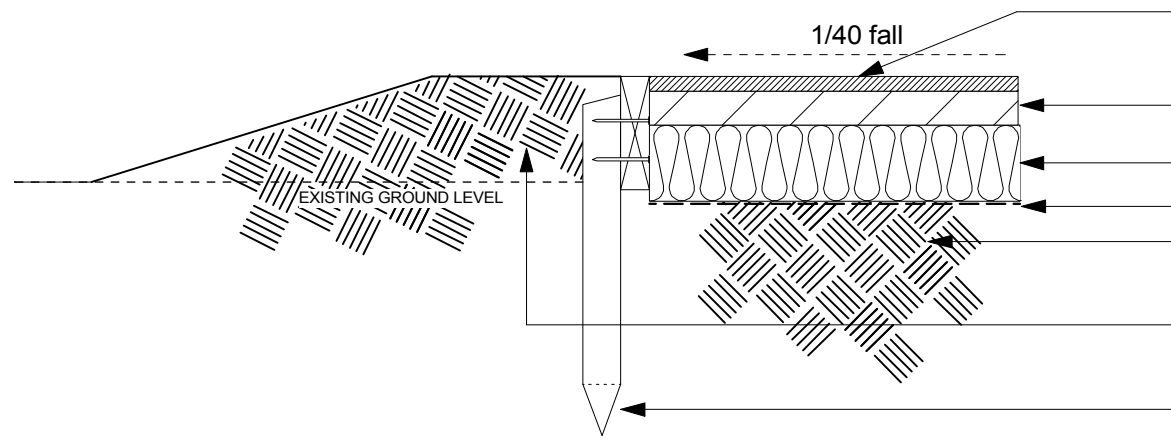
1. Materials and workmanship to BS 594987:2007, PD6691:2007 & BS EN 13108

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Surface course:  
6mm nominal size stone dense macadam (DBM) 160/220 pen grade.  
Thickness: 20mm compacted.

Binder course:  
20mm nominal size stone dense base mixture (DBM) 125 pen grade.  
Thickness: 45mm compacted.

G4 Geoweb (or approved equivalent) 100mm filled with type 1 or approved clean aggregate  
Lotrak 200 geo textile (or approved equivalent)  
Existing soil. Vegetative layer scrapped off

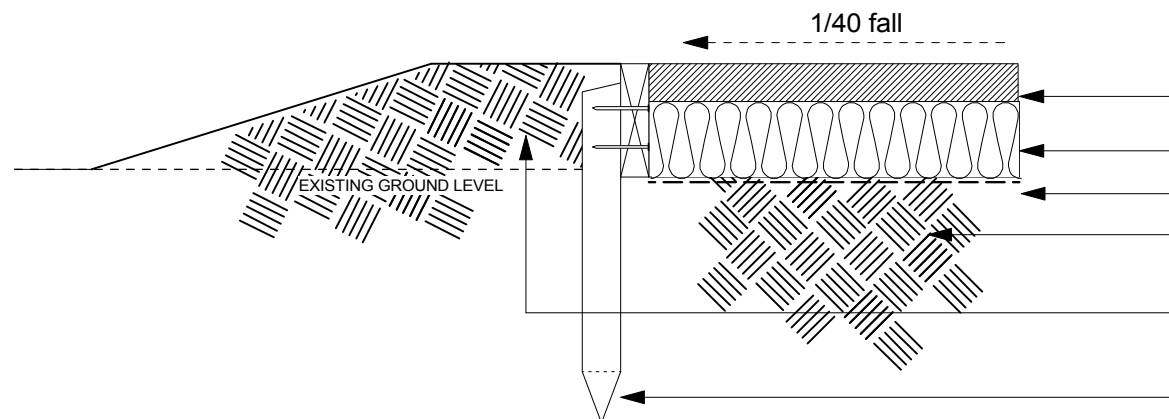
Excavated soil from path, graded, stone picked raked and seeded. Contractor to allow for any imported topsoil necessary to make up levels. Imported topsoil to be premium grade to BS 3882.

Timber edging 38 x 150mm.  
50 x 50 x 600mm pegs at 1000mm centres  
CCA category C desired service life 20 years  
Fixings 2 no. Galvanised wire nails 75 x 3.75mm

### R3A. 'No Dig' Bitmac pedestrian path Scale 1:10 @A3

#### NOTES:

1. Widths of path may vary according to use. Pedestrian only footpaths 1.8m wide, 3.0 wide for footpath / cycleway, unless specified otherwise.
2. Imported topsoil to be premium grade to BS 3882. NO glass will be tolerated within any supplied topsoil. If topsoil is found to contain ANY glass, it will be rejected and be required to be removed from site and be replaced at contractors cost.



Surface course: Hoggin self binding gravel  
Thickness: Min. 50mm compacted.  
1:40 camber sufficient to shed water

G4 Geoweb (or approved equivalent) 100mm filled with type one limestone

Lotrak 200 geo textile (or approved equivalent)

Existing soil. Vegetative layer scrapped off

Excavated soil from path, graded, stone picked raked and seeded. Contractor to allow for any imported topsoil necessary to make up levels. Imported topsoil to be premium grade to BS 3882.

Timber edging 38 x 150mm.  
50 x 50 x 600mm pegs at 1000mm centres  
CCA category C desired service life 20 years  
Fixings 2 no. Galvanised wire nails 75 x 3.75mm

### R3B. 'No Dig' Hoggin self binding gravel pedestrian path Scale 1:10 @A3

#### NOTES:

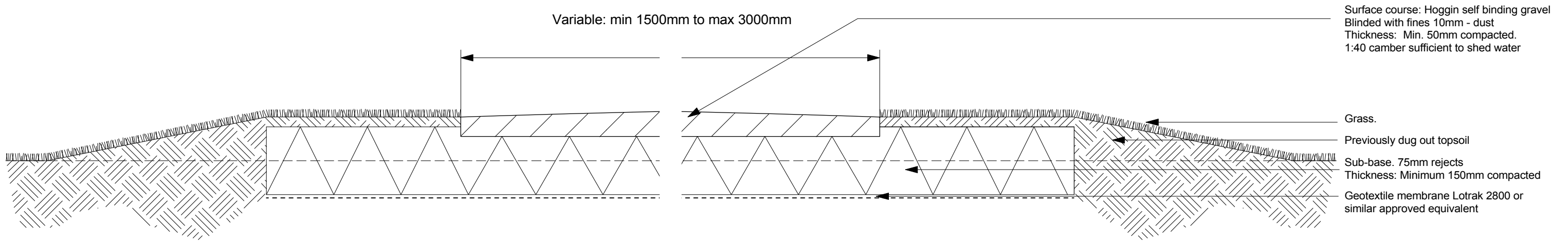
1. Widths of path may vary
2. Imported topsoil to be premium grade to BS 3882. NO glass will be tolerated within any supplied topsoil. If topsoil is found to contain ANY glass, it will be rejected and be required to be removed from site and be replaced at contractors cost.

#### General Notes :

1. All units are in millimeters unless otherwise stated.
2. Do not scale from this drawing.
3. Timber shall be free of splits and twists.
4. Units weighing in excess of 20kg must not be handled by a single person. A risk assessment must be carried out to ensure safe handling.

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**General Notes :**

1. All units are in millimeters unless otherwise stated.
2. Do not scale from this drawing.
3. Timber shall be free of splits and twists.
4. Units weighing in excess of 20kg must not be handled by a single person. A risk assessment must be carried out to ensure safe handling.

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Property Services

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**Green Way**  
SPACES FOR PEOPLE AND WILDLIFE  
Environmental Design Team Planning Services Appletree Court Beaulieu Road Lyndhurst SO43 7PA 023 80285000

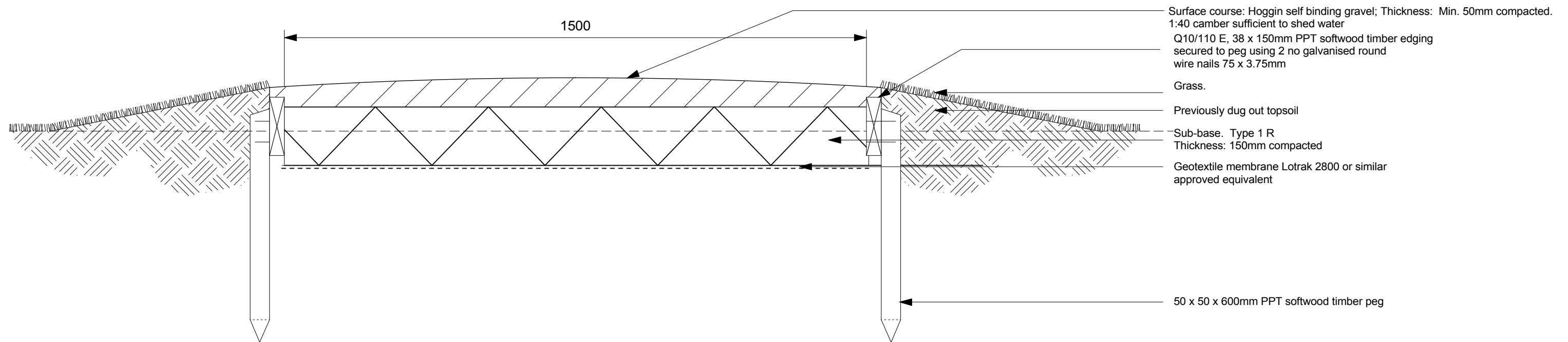
**STANDARD CONSTRUCTION DETAILS  
for Open Green Spaces**

**PATHS: HOGGIN WITH NO EDGINGS**

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**R4**



**R5 Hoggin self binding gravel: To footpaths Scale 1:10 @ A3**

**Notes self-binding gravel:**

1. Standard widths of 1500mm / 1800mm / 3000mm.
2. Where ground fall is greater than 1:10 allow for granite sett channel at 30 degrees along path length and extending beyond path by 500mm
3. Surface course: 40mm - dust stone with fines (10mm - dust) self-binding gravel supplied from local sources.
4. Construct with falls / camber of 1:40 to allow water to run off. Where used for paths create shallow dome surface.
5. The gravel should be spread onto the prepared foundation using a flat board or the back of a rake. Do not use the prongs of a rake as this may pull the coarse components of the gravel up to the surface. Spread the material out to a depth of approximately 75mm in order to achieve a finished compacted thickness of 50mm.
6. The surface must then be rolled using a roller of similar type to that used for compacting the foundation with the vibratory action of the roller switched on and the area should be continually rolled until fullest compaction is achieved.
7. After this initial laying to cambers and falls it is probable that occasional coarse areas will be evident where segregation of the gravel may have occurred. At this point, fines can be sieved from the main heap of material and scattered onto these coarse areas before being re-rolled.
8. Once a uniform appearance has been achieved the second stage can be undertaken. This is the water rolling of the gravel for which the vibratory action of the roller must be switched off. The object of water rolling this material is to float sufficient fines to the top surface of the gravel to obtain a well-bonded finish.
9. The area should then be allowed to dry out before being opened up to general use, the length of time to allow is dependant on weather conditions, but this can take up to 2 weeks or more.

**38mm Timber edging to paths Scale 1:10 @ A3**

**NOTES:**

1. All timber shall be FSC certified (with a full chain of custody) softwood timber.
2. All softwood timber to be Tanalith E Preservative treatment (or similar approved non arsenic treatment) with a desired service life 20 years.
3. All timber cuts shall be liberally brushed with preservative to manufacturers recommendations.
4. All timber shall be free of splits and twists.
5. Where joins and mitres occur the timber shall be carefully finished so that the timbers butt joint tightly.

**General Notes :**

1. All units are in millimeters unless otherwise stated.
2. Do not scale from this drawing.
3. Timber shall be free of splits and twists.
4. Units weighing in excess of 20kg must not be handled by a single person. A risk assessment must be carried out to ensure safe handling.



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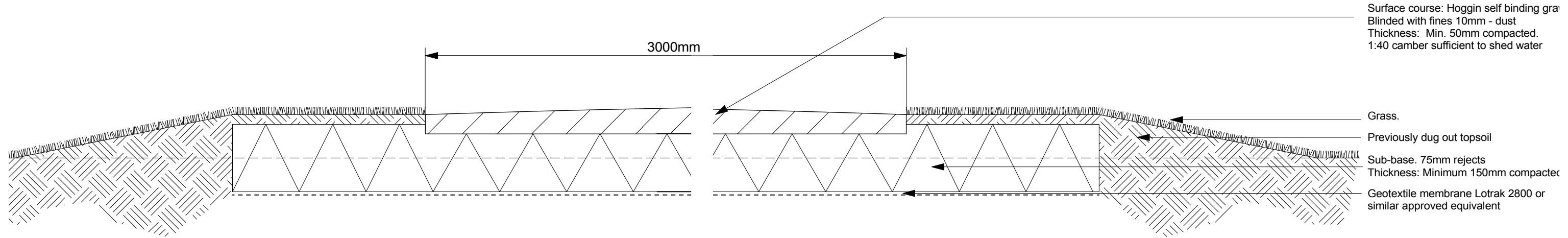
**STANDARD CONSTRUCTION DETAILS  
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**HOGGIN PATHS WITH TIMBER EDGINGS**

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**R5**



**R6** Hoggin self binding gravel: To footpaths Scale 1:10 @ A3

**Notes:**

**Self-binding gravel:**

1. Surface course: 40mm - dust stone with fines (10mm - dust) self-binding gravel supplied from local sources.
2. Construct with falls / camber of 1:40 to allow water to run off. Where used for paths create shallow dome surface.
3. The gravel should be spread onto the prepared foundation using a flat board or the back of a rake. Do not use the prongs of a rake as this may pull the coarse components of the gravel up to the surface. Spread the material out to a depth of approximately 75mm in order to achieve a finished compacted thickness of 50mm.
4. The surface must then be rolled using a roller of similar type to that used for compacting the foundation with the vibratory action of the roller switched on. The area should be continually rolled until fullest compaction is achieved.
5. After this initial laying to cambers and falls it is probable that occasional coarse areas will be evident where segregation of the gravel may have occurred. At this point, fines can be sieved from the main heap of material and scattered onto these coarse areas before being re-rolled.
6. Once a uniform appearance has been achieved the second stage can be undertaken. This is the water rolling of the gravel for which the vibratory action of the roller must be switched off. The object of water rolling this material is to float sufficient fines to the top surface of the gravel to obtain a well-bonded finish.
7. The area should then be allowed to dry out before being opened up to general use, the length of time to allow is dependant on weather conditions, but this can take up to 2 weeks or more.
8. Where ground fall is greater than 1:10 allow for granite sett channel at 30 degrees along path length and extending beyond path by 500mm

**General Notes :**

1. All units are in millimeters unless otherwise stated.
2. Do not scale from this drawing.
3. Timber shall be free of splits and twists.
4. Units weighing in excess of 20kg must not be handled by a single person. A risk assessment must be carried out to ensure safe handling.



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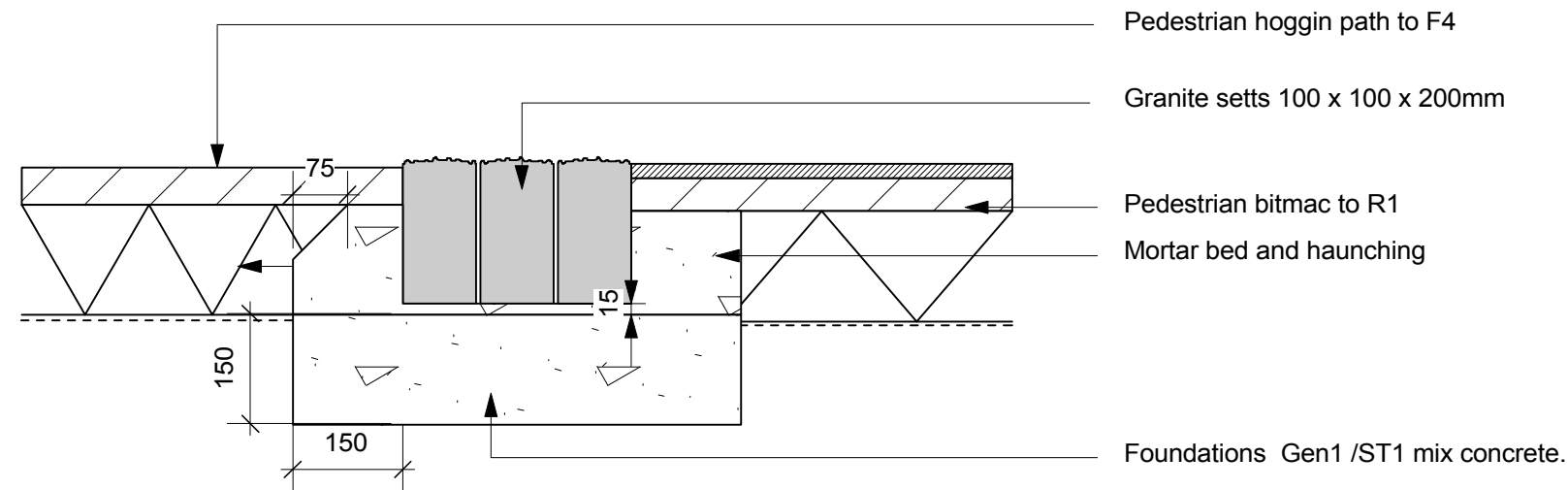
**PATH: BRIDLEWAY 3M WIDE**

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**R6**





**R7 Granite Setts Scale 1:10 @ A3**

**NOTES:**

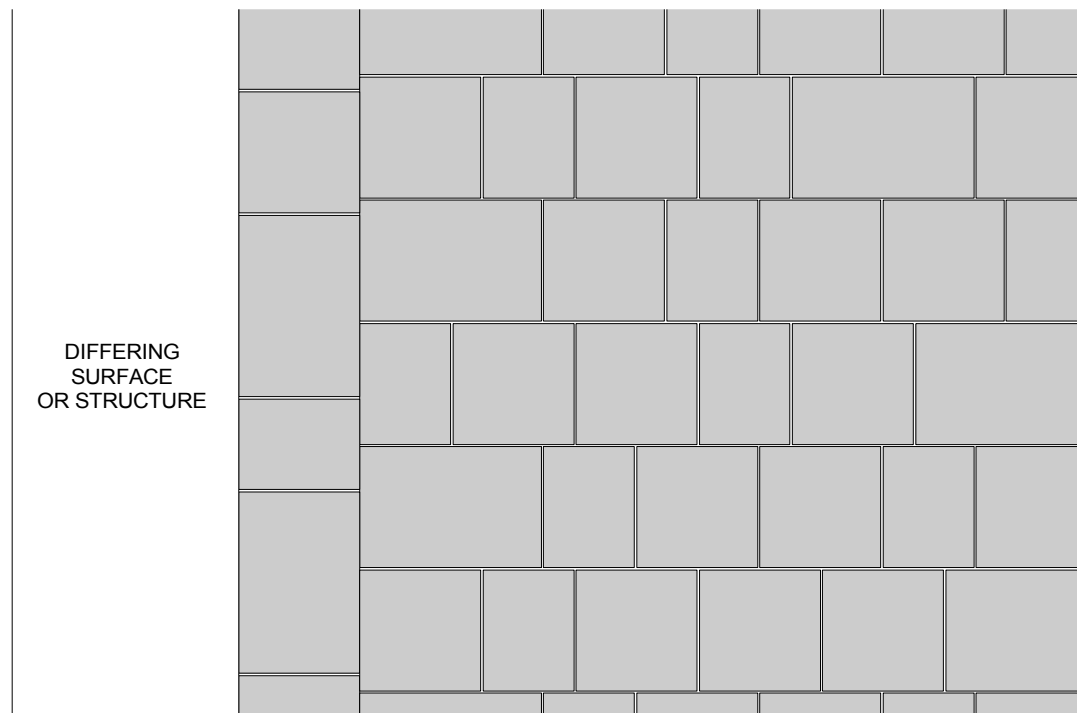
1. Mix ST1 /Gen1 concrete bedding shall be laid on a sub-base and shall be a minimum thickness of 150mm Sub-base shall be excavated where necessary to achieve 150mm thickness. Recompact disturbed sub-base prior to construction of concrete base.
2. Where excavation into the existing surfacing is required a trench shall be excavated of sufficient depth and width to accommodate the complete bed and backing of the edging type scheduled.
3. The sett top shall be flush to adjacent hard surface unless otherwise stated
4. Joints to be a maximum 10mm mortar gap.
5. Upstand tolerance no greater than 6mm across setts and to adjoining surfaces.

**General Notes :**

1. All units are in millimeters unless otherwise stated.
2. Do not scale from this drawing.
3. Timber shall be free of splits and twists.
4. Units weighing in excess of 20kg must not be handled by a single person. A risk assessment must be carried out to ensure safe handling.

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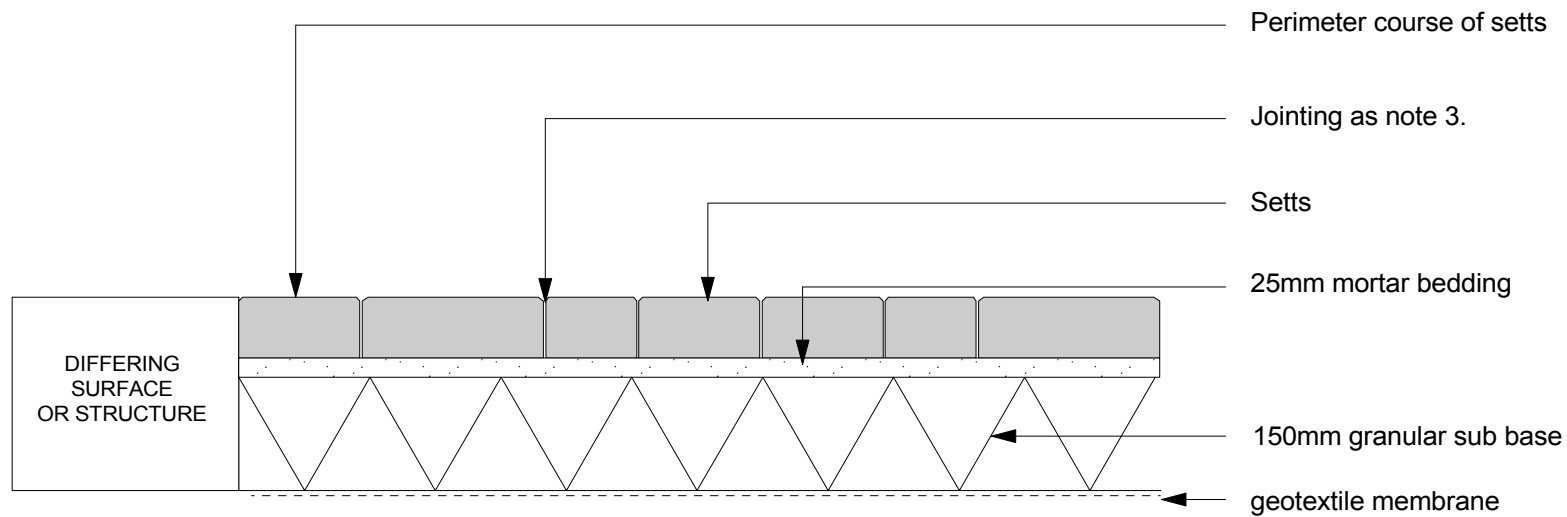


**Plan view showing random stretcher bond and perimeter course.** (Laying pattern indicative only) Scale 1:10

**R8 Small Unit Pavings: To Pavements** Scale 1:10

**NOTES:**

1. Bond to be random staggered. perimeter to have one course running flush to surrounding structures / surfaces.
2. Average depth 25mm mortar bedding shall be laid on a sub-base. Sub-base shall be excavated where necessary to achieve 255mm thickness. Recompact disturbed sub-base prior to construction of paving base. Mortar to be stiff 1:3 cement:sand mix.
3. Joints to be filled with dry 1:3 cement / sand mix. Brush off to leave top of setts exposed and clean.
4. Setts to be silver grey colour. Sizes 240 x 160, 160 x 160, 120 x 160mm. 80mm thick.
5. Mistral Setts obtainable from:  
Marshalls  
Landscape House, Premier Way, Lowfields Business Park Elland HX5 9HT  
Tel: 0845 3020 600. Fax: 0845 3020 www.marshalls.co.uk  
Suitable alternatives to be approved.



**General Notes :**

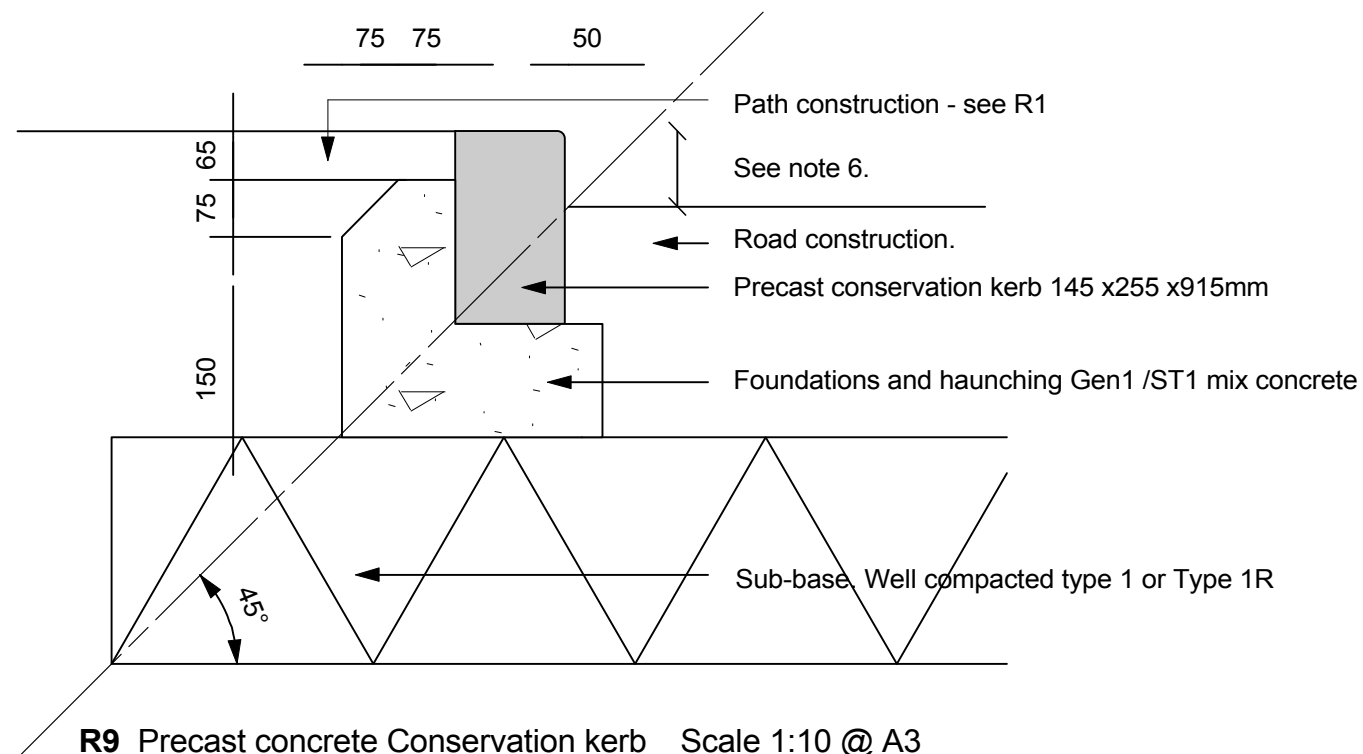
1. All units are in millimeters unless otherwise stated.
2. Do not scale from this drawing.
3. Timber shall be free of splits and twists.
4. Units weighing in excess of 20kg must not be handled by a single person. A risk assessment must be carried out to ensure safe handling.



**STANDARD CONSTRUCTION DETAILS  
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**PATHS:SMALL UNIT PAVING**

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**R9** Precast concrete Conservation kerb Scale 1:10 @ A3

**NOTES:**

1. The appropriate 914mm long precast concrete transition kerb shall be installed at each change in kerb type, tie ins to existing and at terminations.
2. Conservation style kerb to have exposed aggregate giving natural look.
3. Mix ST1 /Gen1 concrete kerb bedding shall be laid on a sub-base and shall be a minimum thickness of 150mm Sub-base shall be excavated where necessary to achieve 150mm thickness. Recompact disturbed sub-base prior to construction of kerb base.
4. Where excavation into the existing carriageway is required a trench shall be excavated of sufficient depth and width to accommodate the complete bed and backing of the kerb type scheduled.
5. The minimum length of any cut kerb shall be 450mm.
6. The kerb upstand shall be 100mm unless otherwise stated
7. Centre kerbs, Dropper kerbs Quadrant kerbs, Internal radius kerbs, External radius kerbs, Step kerbs (textured on the ends as well as two faces) all to be used as appropriate.
8. Joints to be 2-3mm dry gap
9. A single unit weighs approx 83kg. Units weighing in excess of 20kg must not be manhandled by a single person. A risk assessment must be carried out to ensure safe handling.

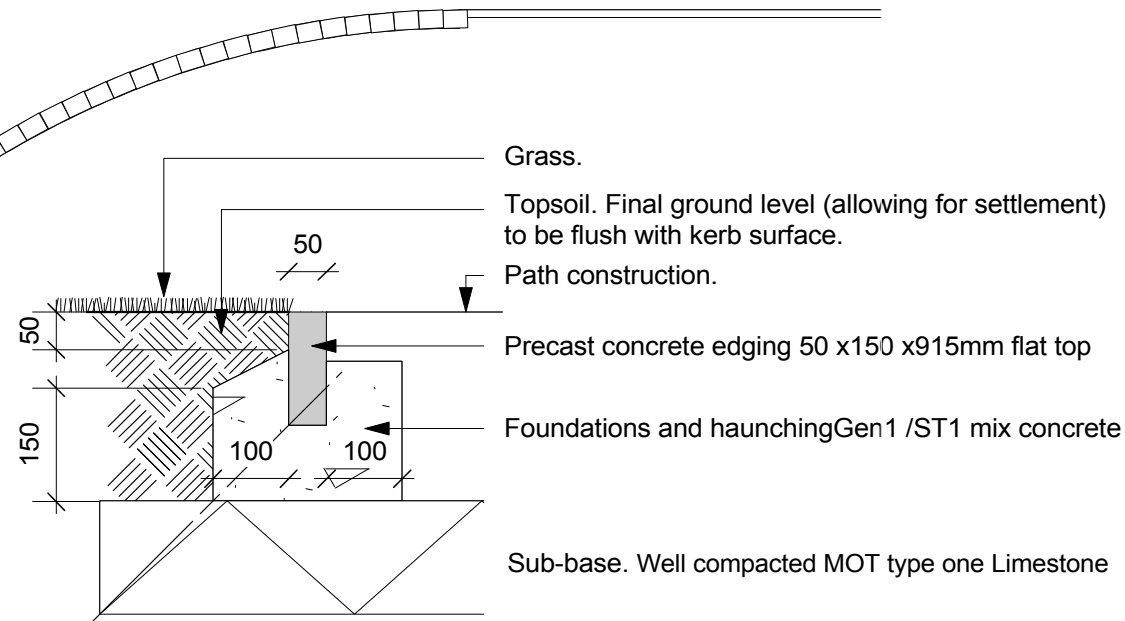
**General Notes :**

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2. Do not scale from this drawing.
3. Timber shall be free of splits and twists.
4. Units weighing in excess of 20kg must not be handled by a single person. A risk assessment must be carried out to ensure safe handling.

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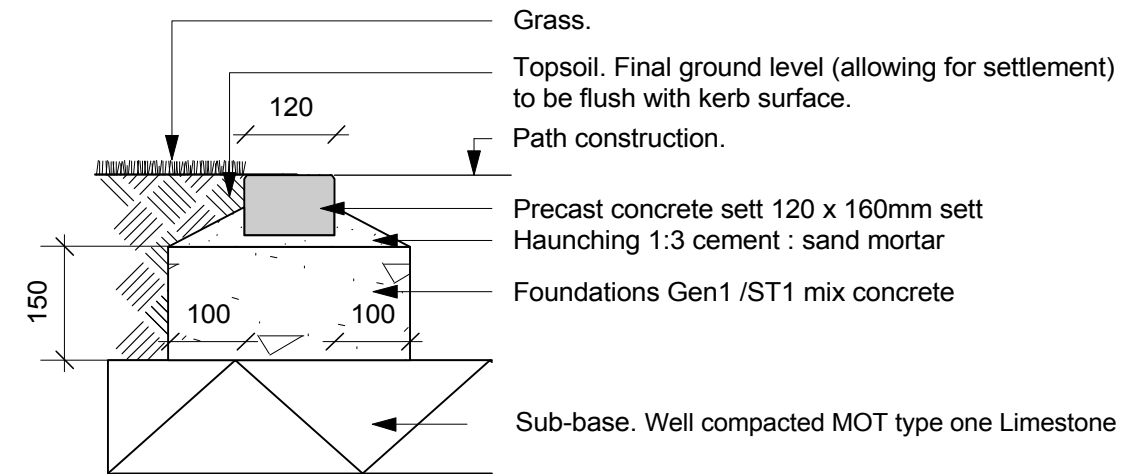
Where radius of standard path edge exceeds 6m use feature edge detail



**R10 Conservation style concrete edgings** Scale 1:10 @ A3

**NOTES:**

1. Conservation style concrete edgings to be used as constraints for all bitmac areas with the exception of special sections such as childrens play areas. For these use feature edging detail, or propose alternative.
2. Mix ST1 /Gen1 concrete kerb bedding shall be laid on a sub-base and shall be a minimum thickness of 150mm Sub-base shall be excavated where necessary to achieve 150mm thickness. Recompact disturbed sub-base prior to construction of kerb base.
3. Where excavation into the existing surfacing is required a trench shall be excavated of sufficient depth and width to accomodate the complete bed and backing of the kerb type scheduled.
4. The minimum length of any cut kerb shall be 450mm.
5. The kerb top shall be flush to hard surface unless otherwise stated
6. Joints to be 2-3mm dry gap.



**R10A Feature edge detail: Precast flush finish conservation setts** Scale 1:10 @ A3

**NOTES:**

1. Mix ST1 /Gen1 concrete kerb bedding shall be laid on a sub-base and shall be a minimum thickness of 150mm Sub-base shall be excavated where necessary to achieve 150mm thickness. Recompact disturbed sub-base prior to construction of kerb base. Mortar to be stiff 1:3 cement:sand mix.
2. Where excavation into the existing surfacing is required a trench shall be excavated of sufficient depth and width to accomodate the complete bed and backing of the edging type scheduled.
3. Setts to be silver grey colour conservation style. Sizes 120 x 160mm. 80mm thick. Laid as a soldier course.
4. The sett top shall be flush to hard surface unless otherwise stated
5. Joints to be 6mm mortar.

**General Notes :**

1. All units are in millimeters unless otherwise stated.
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3. Timber shall be free of splits and twists.
4. Units weighing in excess of 20kg must not be handled by a single person. A risk assessment must be carried out to ensure safe handling.



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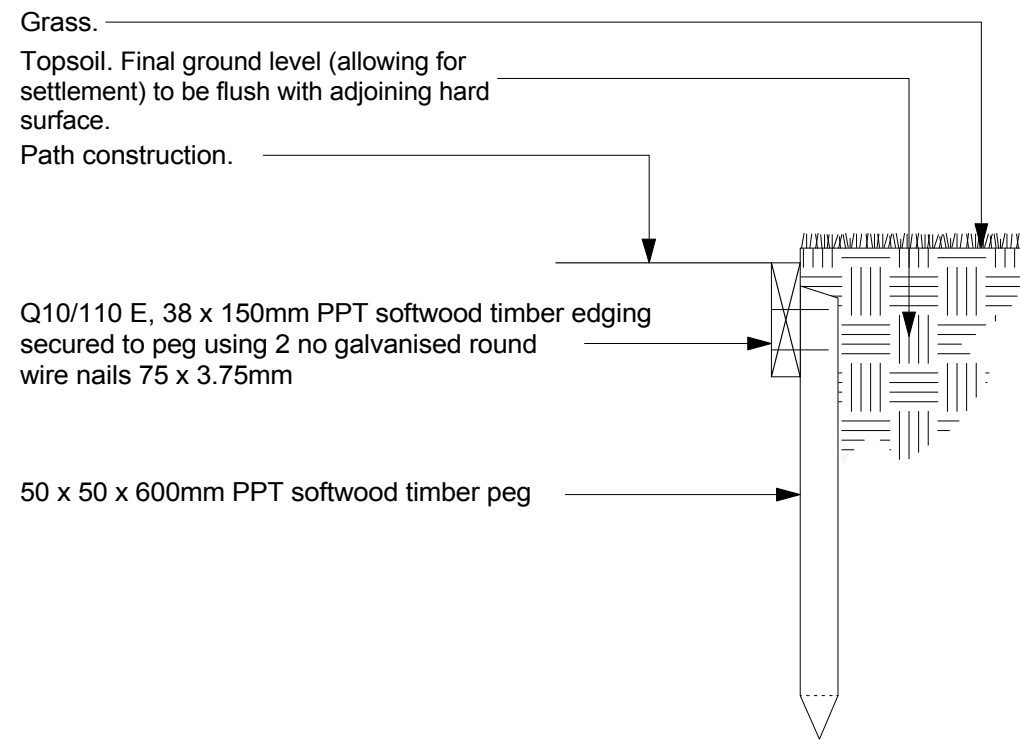
**STANDARD CONSTRUCTION DETAILS**  
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**EDGINGS: CONCRETE**

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**R10**



**R11** 38mm Timber edging to paths Scale 1:10 @ A3

**NOTES:**

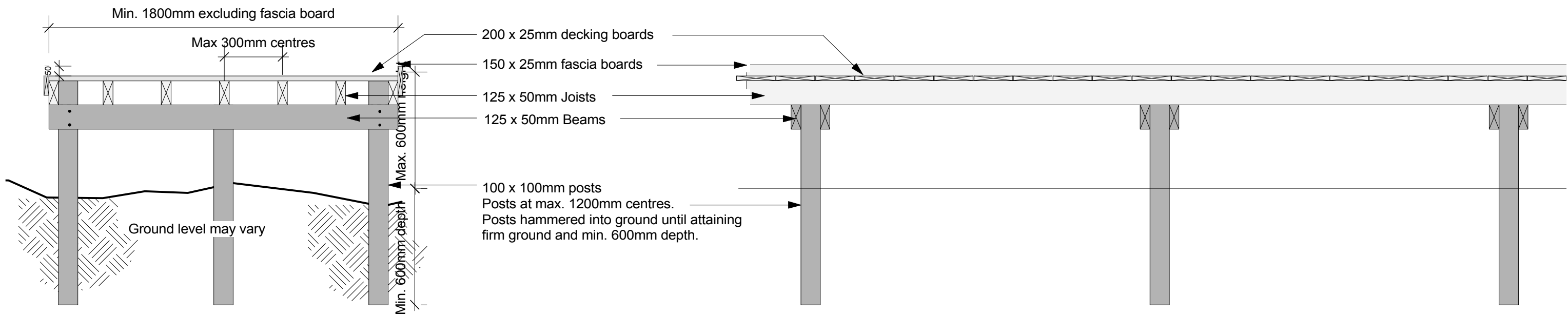
1. All timber shall be FSC certified (with a full chain of custody) softwood timber.
2. All softwood timber to be Tanalith E Preservative treatment (or similar approved non arsenic treatment) with a desired service life 20 years.
3. All timber cuts shall be liberally brushed with preservative to manufacturers recommendations.
4. All timber shall be free of splits and twists.
5. Where joints and mitres occur the timber shall be carefully finished so that the timbers butt joint tightly.

**General Notes :**

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3. Timber shall be free of splits and twists.
4. Units weighing in excess of 20kg must not be handled by a single person. A risk assessment must be carried out to ensure safe handling.

**NOTES**

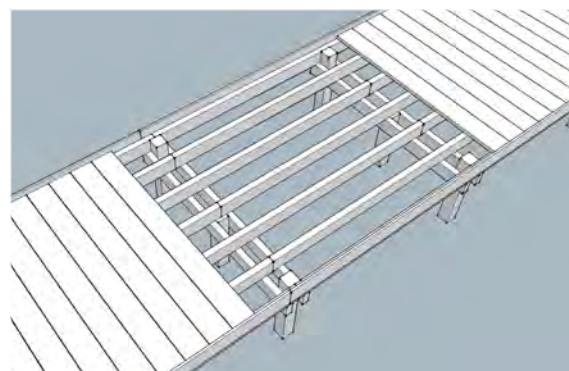
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**R12: Standard Boardwalk**      Scale 1:20 @ A3

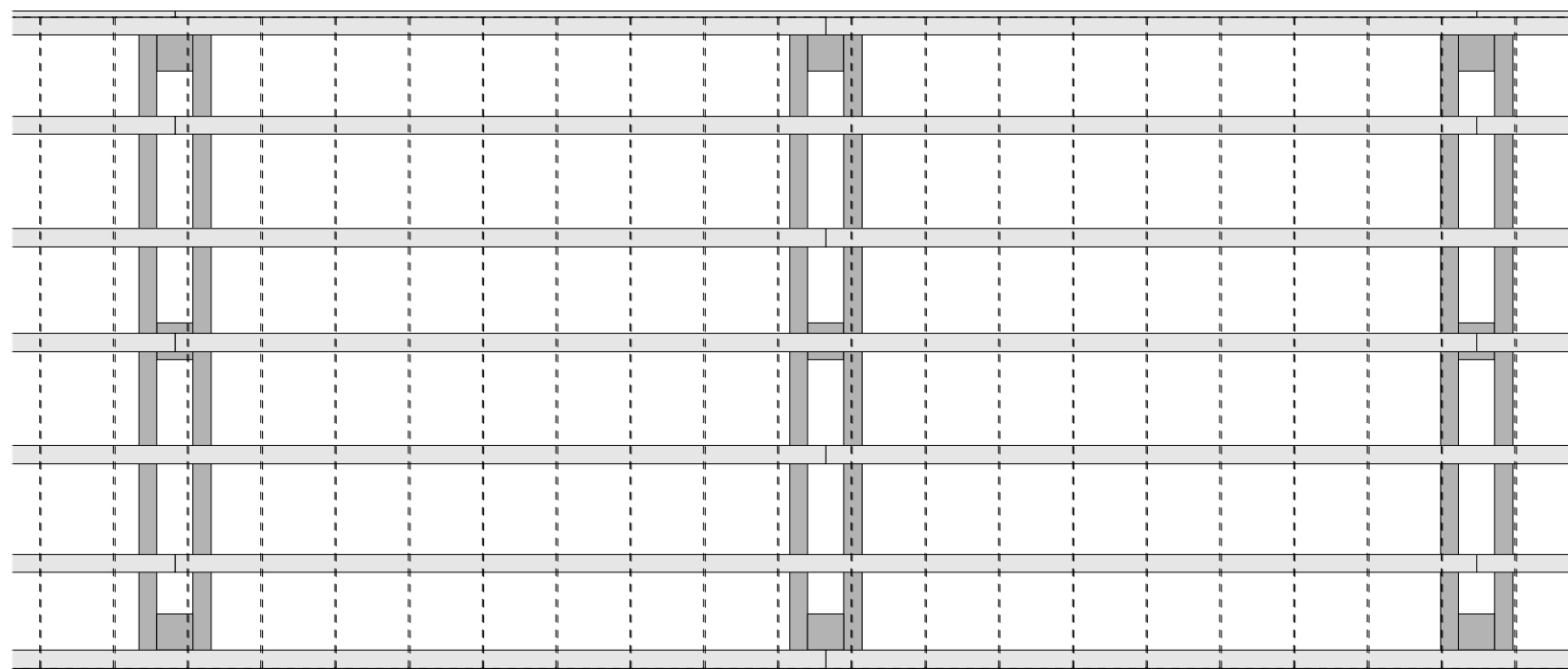
**Notes - general:**

1. Only to be used in specifically approved areas. Developer to be aware that installation may require EA approval and ecologist direction.
2. Decking boards to be Polydeck, finish: 'Aged Oak' or similar approved. Sub frame to be recycled plastic lumber sections. Colour brown.



**General Notes:**

1. All units are in millimeters unless otherwise stated.
2. Do not scale from this drawing.
3. Timber shall be free of splits and twists.
4. Units weighing in excess of 20kg must not be handled by a single person. A risk assessment must be carried out to ensure safe handling.



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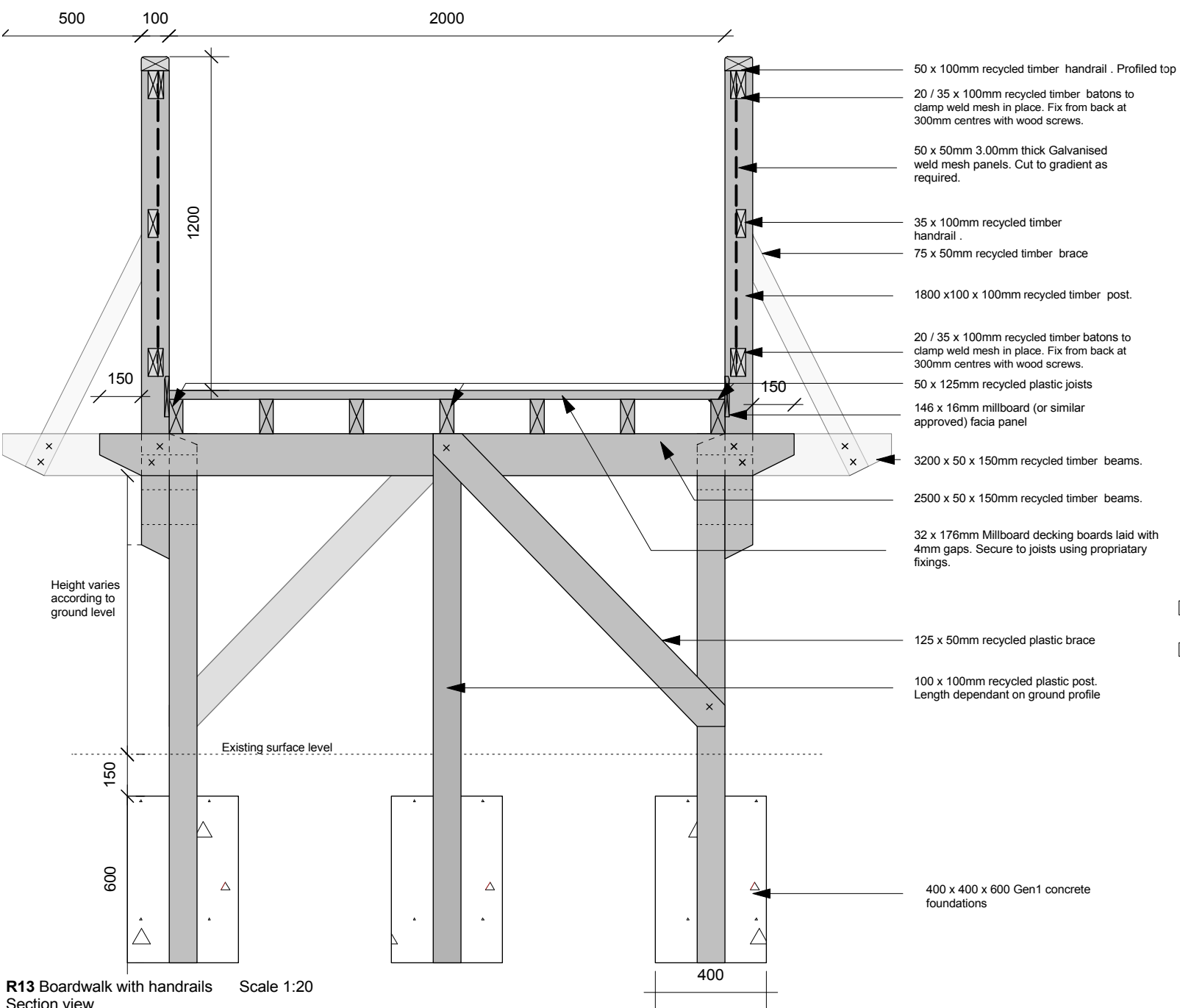
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**STANDARD CONSTRUCTION DETAILS**  
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**PATHS: STANDARD BOARDWALK**

**NOTES**

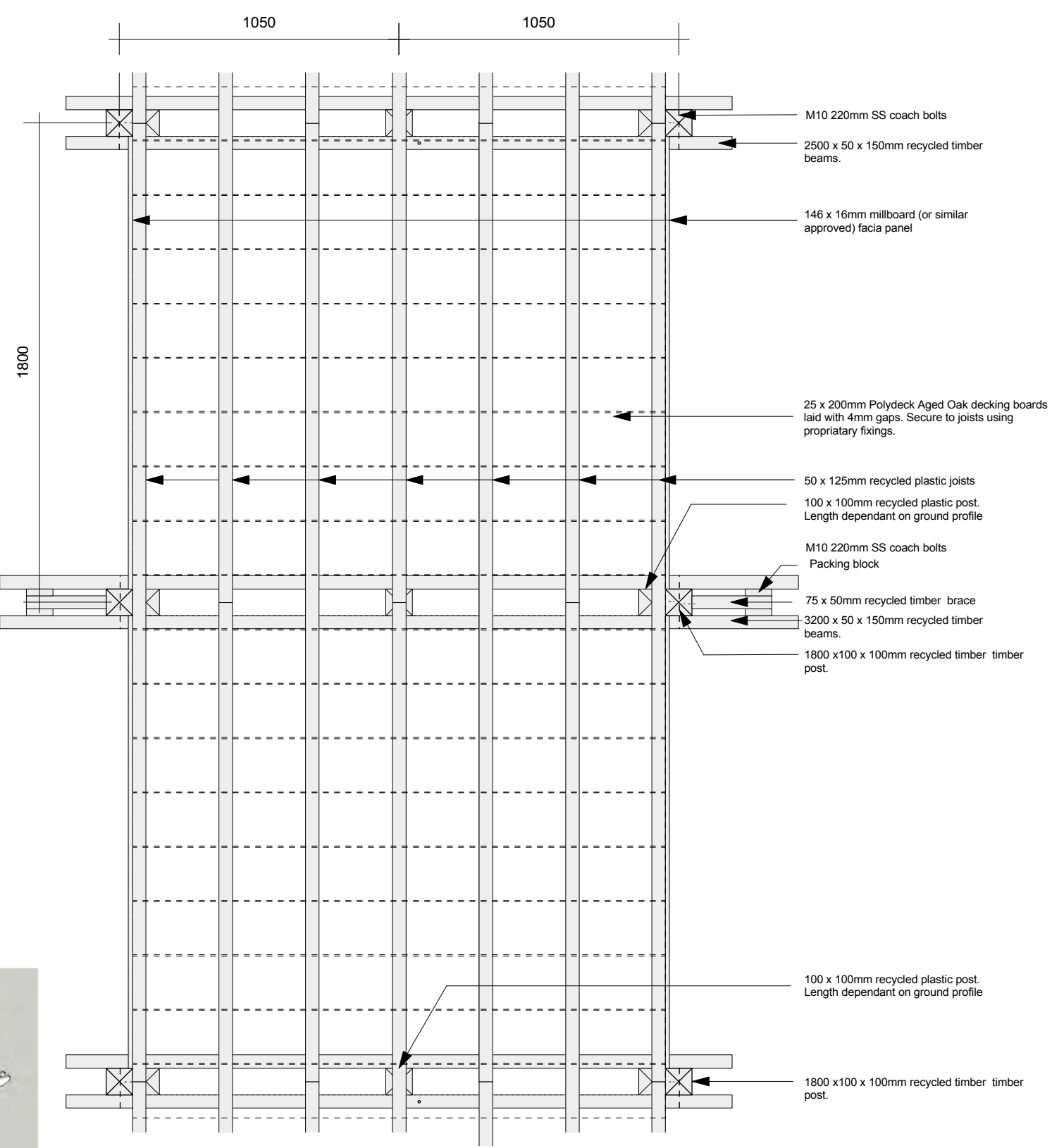
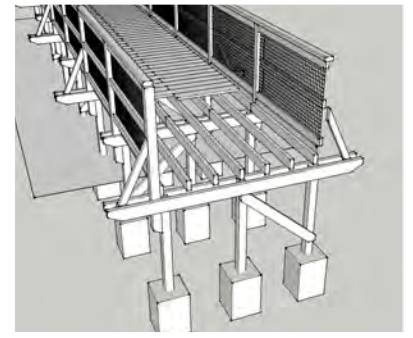
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R13 Boardwalk with handrails Section view Scale 1:20

- NOTES:
- Where joins and mitres occur the timber shall be carefully finished so that the timbers butt joint tightly and no sharp corners are created. Corners shall be chamfered
  - Decking boards, and fascia boards to be Polydeck 'Aged Oak' finish or similar approved. Joists, braces and posts to be recycled plastic. Colour: brown.
  - All bolts to be threaded coach bolts stainless steel and to be recessed into timber to present flush finishes.
  - Weld mesh to cut to panels to fit each bay. Cuts to wire edge. Protruding wires to be trimmed back to panel edge leaving no sharp points. Panels to be arranged so that the wires run horizontally and vertically, not with the gradient.

- General Notes:
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  - Do not scale from this drawing.
  - Units weighing in excess of 20kg must not be handled by a single person. A risk assessment must be carried out to ensure safe handling.

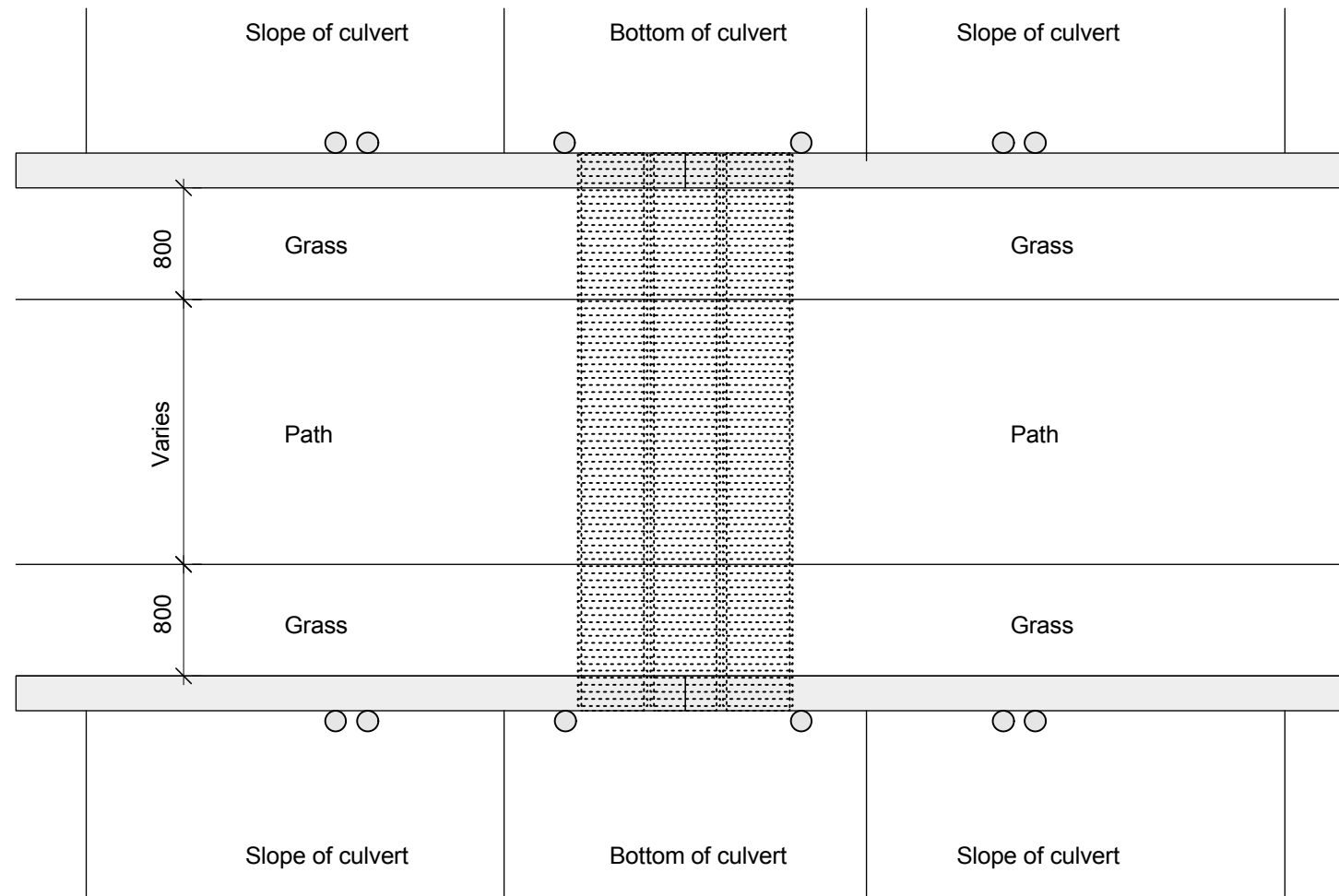


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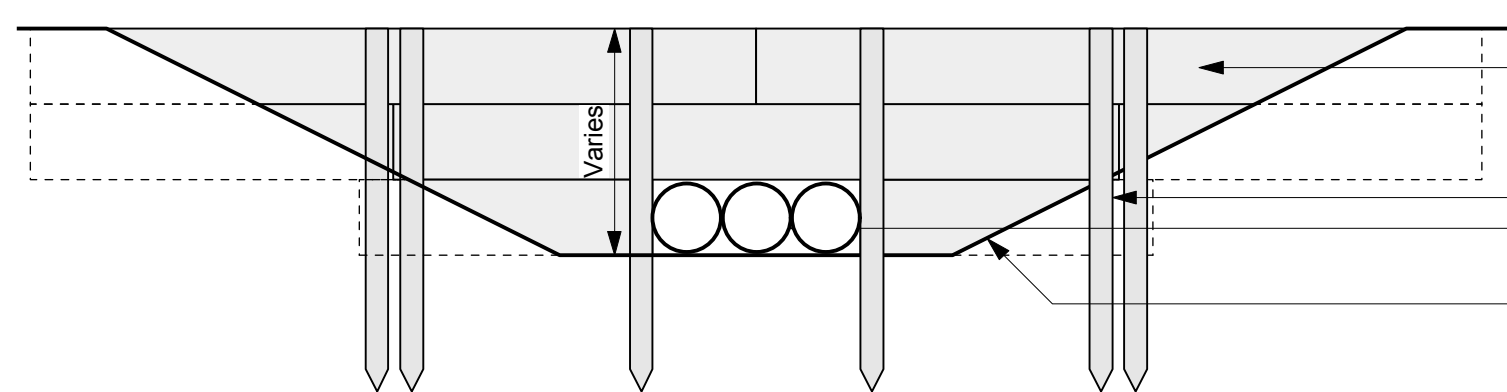
STANDARD CONSTRUCTION DETAILS for Open Green Spaces

BOARDWALK WITH HANDRAILS

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Plan View Not to scale

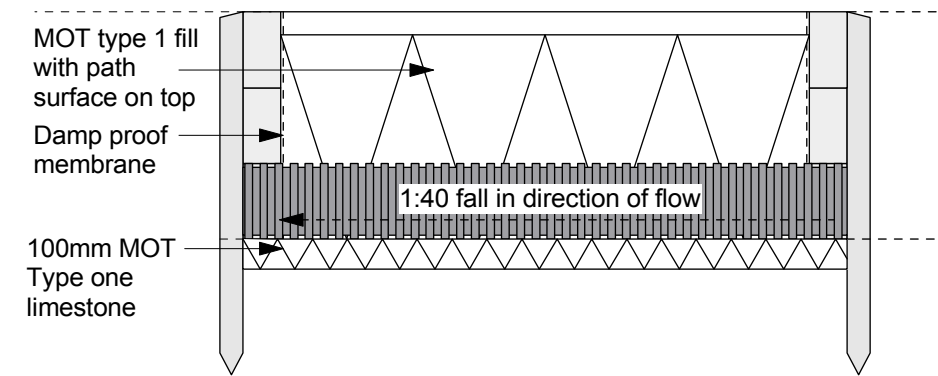


Section view across culvert

Culvert - Single or multiple pipe watercourse Scale 1:25 @ A3

**NOTES:**

1. These drawings are to be read in conjunction with written specification.
2. Timber components shall be tanalised timber free of splits and twists.
3. Timber shall be preserved in accordance with BS 8417 to give a 20 year lifespan.
4. Units weighing in excess of 20kg must not be manhandled by a single person. A risk assesment must be carried out to ensure safe handling.



Section view along culvert

125 x 250 x 2400mm hardwood timber sleepers

75mm diam x 1200mm round timber stake  
225mm diam unperforated twinwall pipe (s) as required,  
haunched in concrete

Sides of culvert no steeper than 1:2

**General Notes :**

1. All units are in millimeters unless otherwise stated.
2. Do not scale from this drawing.
3. Timber shall be free of splits and twists.
4. Units weighing in excess of 20kg must not be handled by a single person. A risk assessment must be carried out to ensure safe handling.

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**STANDARD CONSTRUCTION DETAILS  
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**CULVERT**

**NOTES**

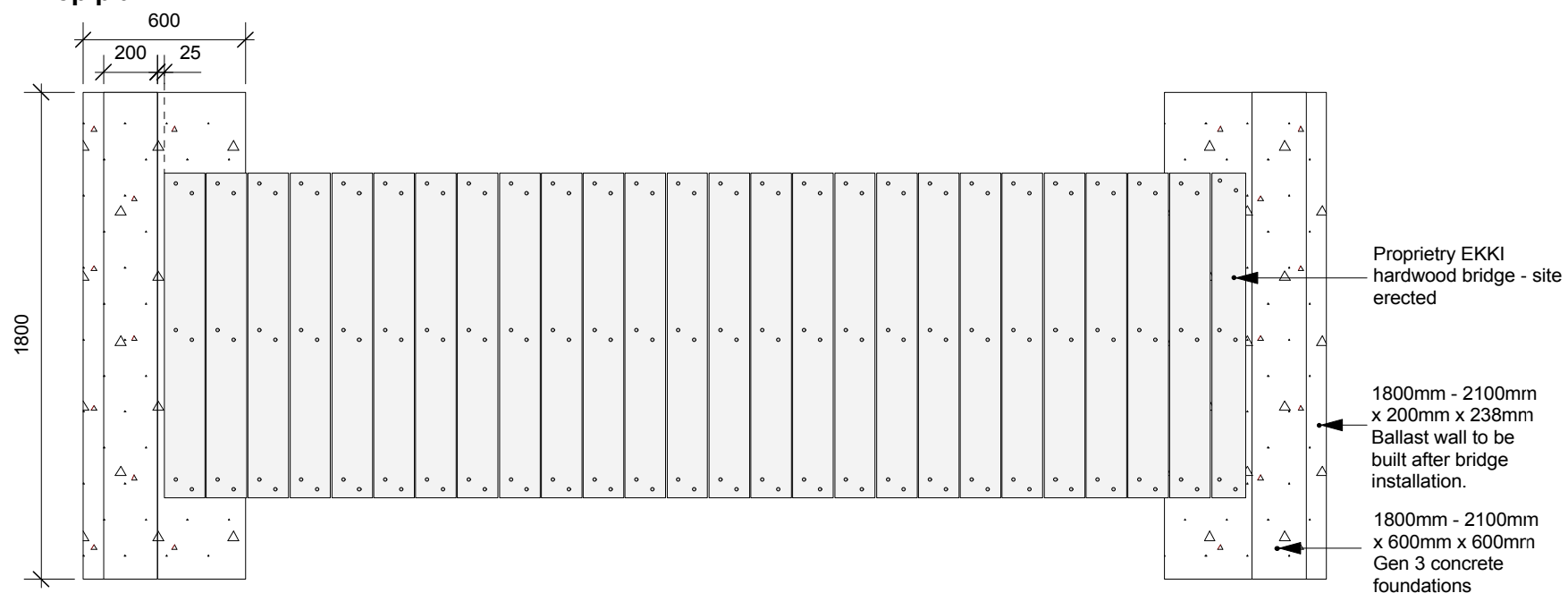
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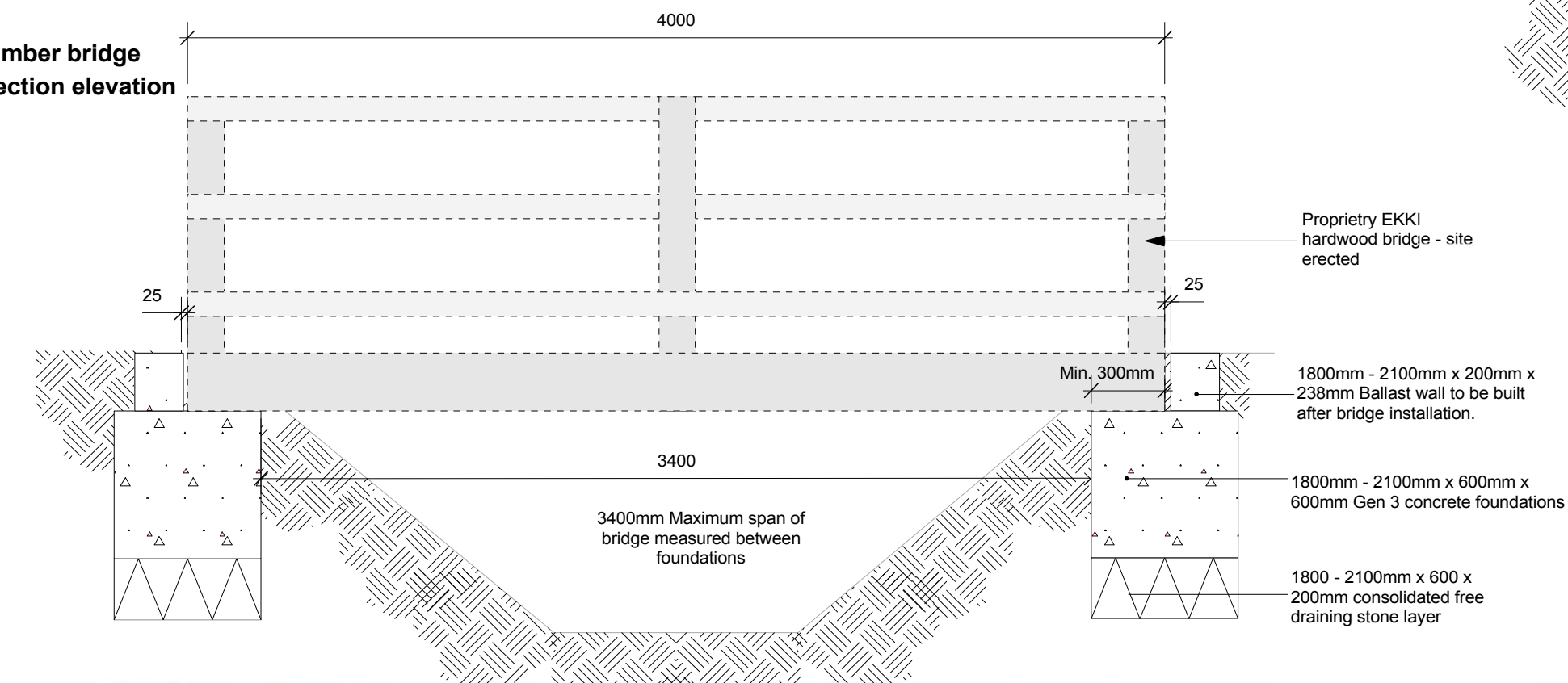
### R13 Timber bridge

Deck bridge: for construction across ditches and streams exceeding 2500mm width including slopes.

#### Top plan

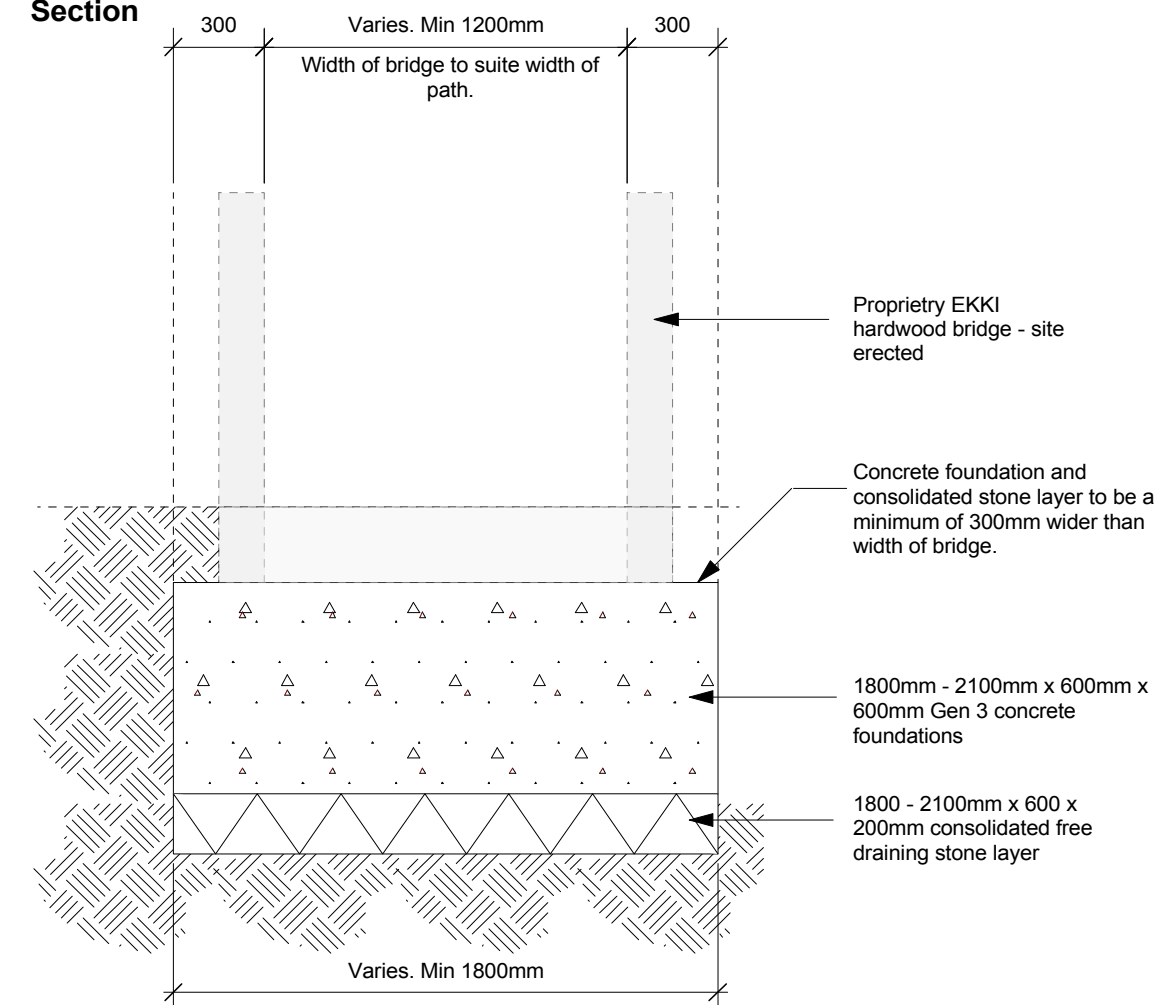


#### Timber bridge Section elevation



### Timber bridge foundation

#### Section



#### Notes:

1. Proprietary hardwood toothbridge as supplied by Bridges or similar approved.
2. Bridges built as standard width from supplier at 1200mm and 1500mm (width measured inside of handrail) to correspond to path width.
3. Bridge length built to measure.
4. Contractor to confirm length of bridge is adequate to span of watercourse prior to placing order with supplier.

#### General Notes:

1. All units are in millimeters unless otherwise stated.
2. Do not scale from this drawing.
3. Timber shall be free of splits and twists.
4. Units weighing in excess of 20kg must not be handled by a single person. A risk assessment must be carried out to ensure safe handling.

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**STANDARD CONSTRUCTION DETAILS**  
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**FOOTBRIDGE: PROPRIETARY HARDWOOD**

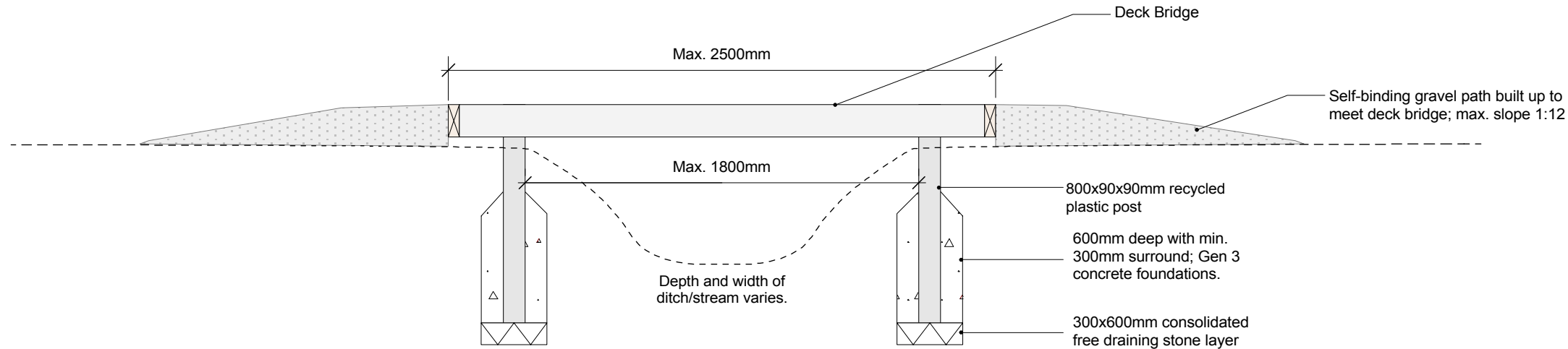
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**R15**

**Deck bridge: for construction across ditches and streams not exceeding 2500mm width including slopes.**

**Section elevation**



**Deck bridge: for construction across ditches and streams not exceeding 2500mm width including slopes.**

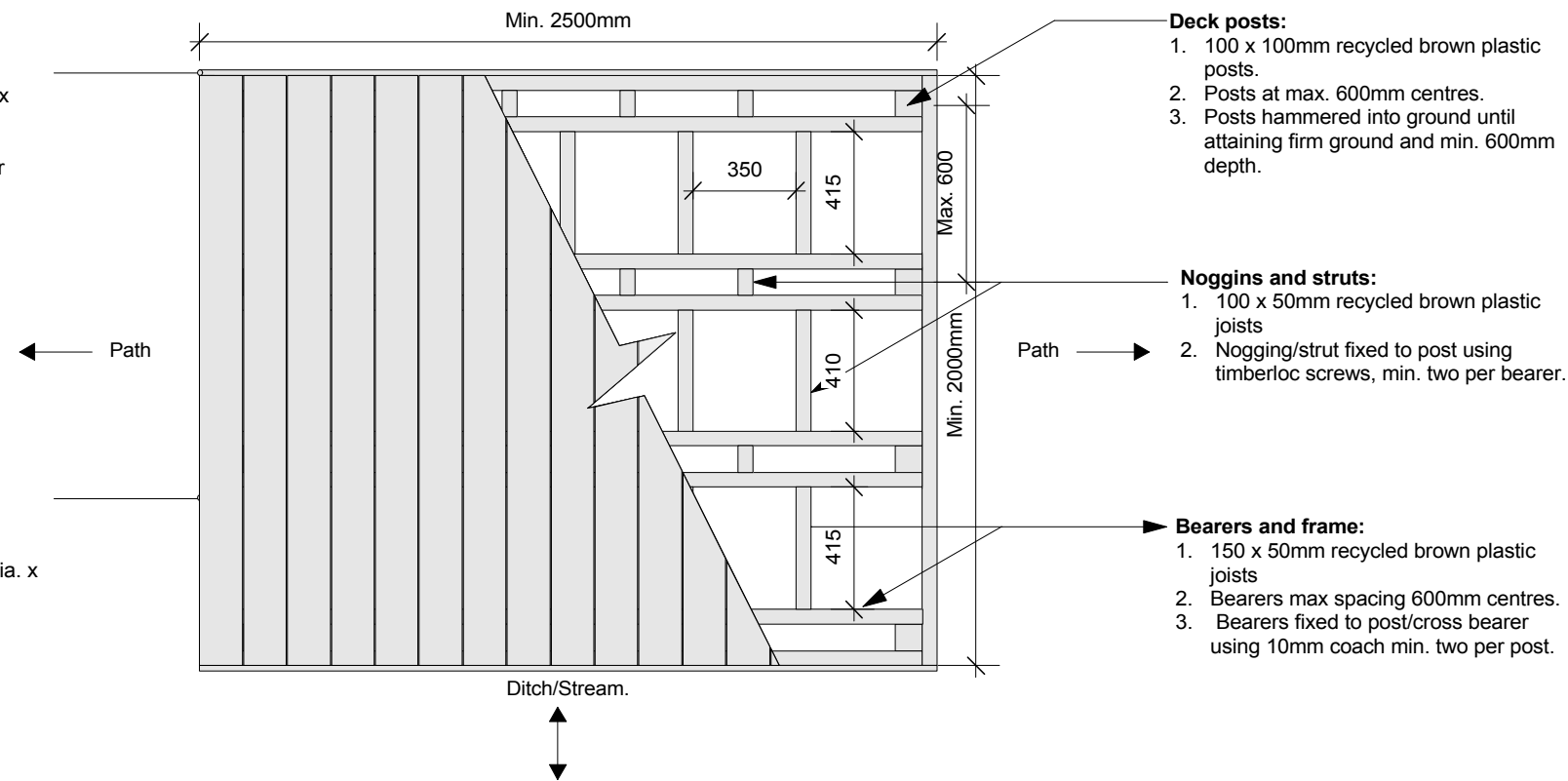
**Cut through on Plan view**

**Fascia boards:**

1. Deck board sides edged with 2500 x 150 x 25mm recycled plastic. Colour brown.
2. Fascia board attached to deck frame with 5mm x 60mm full black screws, min. 8 per 2.5m length.

**Deck boards:**

1. 2000 x 200 x 25mm Polydeck (or similar approved) deck boards.
2. Deck board fixed to Bearer with min. 6mm dia. x 75mm decking screws (min. 2 per bearer)
3. Deck boards laid with a min. 4mm gaps



- Deck posts:**
1. 100 x 100mm recycled brown plastic posts.
  2. Posts at max. 600mm centres.
  3. Posts hammered into ground until attaining firm ground and min. 600mm depth.

- Noggins and struts:**
1. 100 x 50mm recycled brown plastic joists
  2. Noggins/strut fixed to post using timberloc screws, min. two per bearer.

- Bearers and frame:**
1. 150 x 50mm recycled brown plastic joists
  2. Bearers max spacing 600mm centres.
  3. Bearers fixed to post/cross bearer using 10mm coach min. two per post.

**General Notes :**

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**STANDARD CONSTRUCTION DETAILS**  
for Open Green Spaces

**FOOTBRIDGE: LIGHT DUTY SOFTWOOD DECK**

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50 x 100mm hardwood handrail, top chamfered. Fixed to post/rail with 2 no. wood screws per handrail per post/rail recessed and plugged

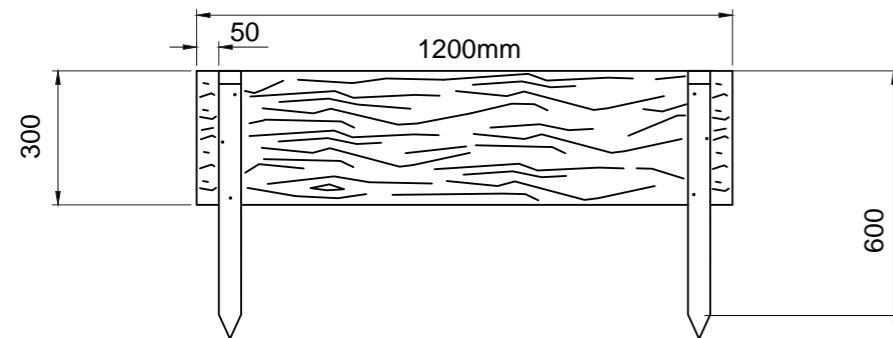
38 x 87mm hardwood rails. Fixed to post with 2 no. wood screws per rail per post recessed and plugged

100 x 100 hardwood posts

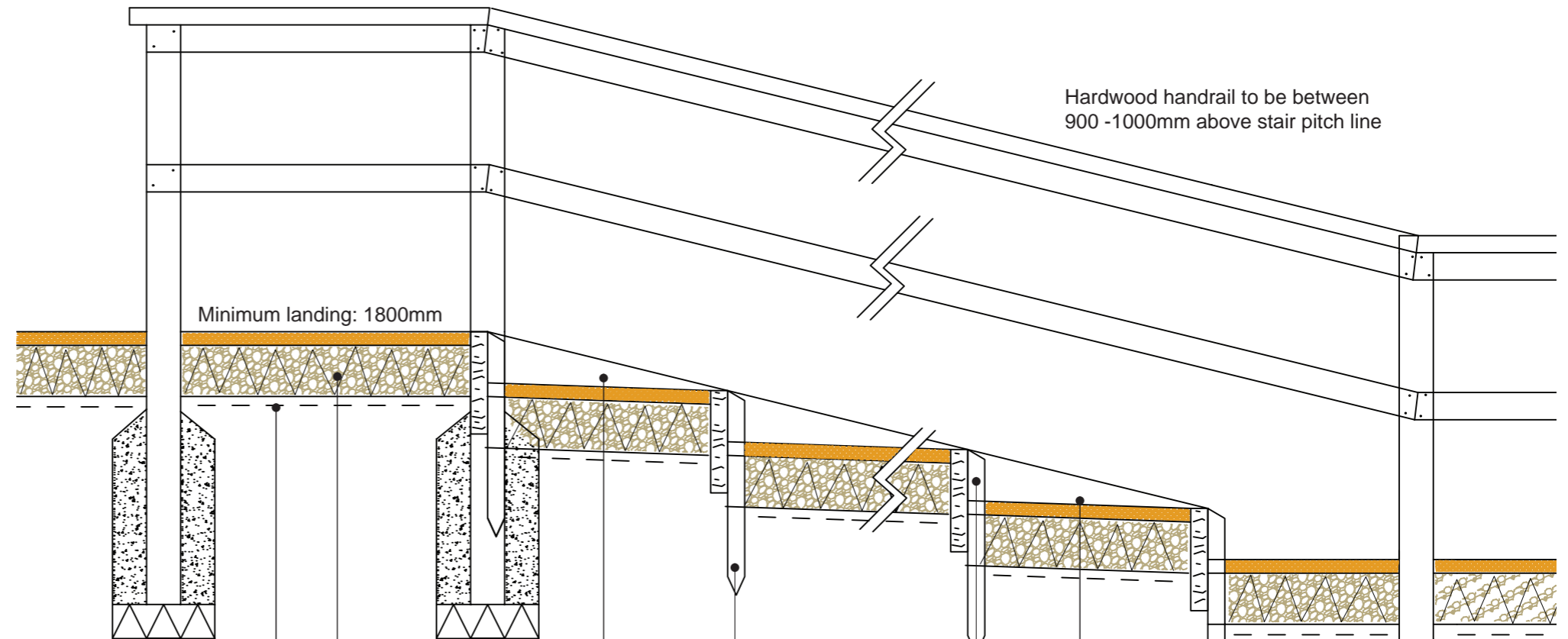
100mm min. depth below ground level to  
Concrete foundation 450 x 500mm along steps depending on site conditions (may be supported by rammed backfill dependant on ground conditions)

100mm consolidated free draining stone layer

**Stair post and handrail section**



**Step front section**



**Step section**

Path construction : see R3, R4, R5, or R6

Geotextile membrane Lotrak 2800 or equivalent

600 x 50 x 50mm Hardwood timber peg

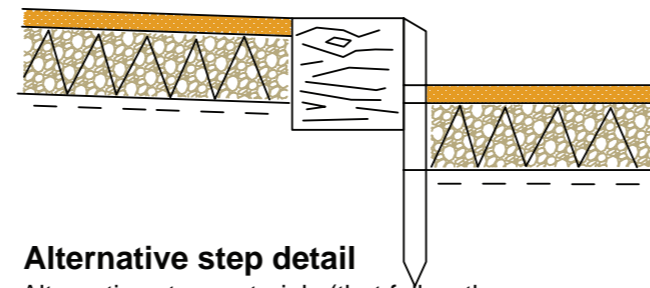
1200 x 300 x 50mm Hardwood timber riser Also see alternative detail

Tread depth dependant on slope, minimum 300mm, preferably 500-1000mm  
Surface to be laid to a drainage fall of 1:40 over the top of adjacent riser

100 x 100mm hardwood posts for handrail at 1500mm centres

Hardwood handrail to be between 900 -1000mm above stair pitch line

50 x 300mm hardwood stringer boards to retain sides



**Alternative step detail**

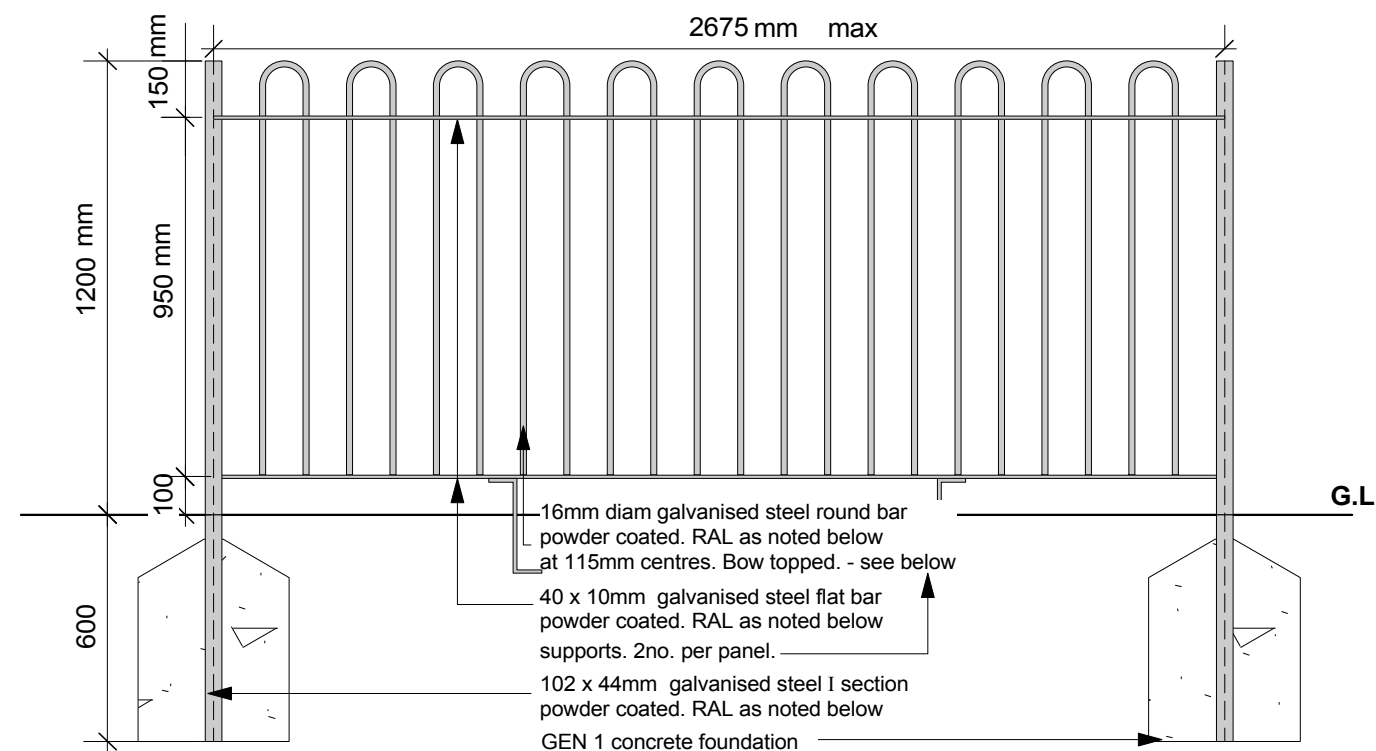
Alternative step materials (that follow the range range of tread and riser dimensions stated below) may be appropriate in some situations, particularly where only a few steps are required. Chunky hardwood or suitable artificial materials will be considered for approval on a site by site basis

**General Notes:**

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### B1 Hooped topped railing Scale 1:20 @ A3

#### NOTES:

1. Fencing must comply with BS 1722-9:2006 or latest version. Where discrepancies exist between specified detail and BS notify contract administrator.
2. This fencing will be generally used in play areas. Therefore all gaps, dimensions etc. must be compliant with EN 1176 .
3. Where used for play areas with gates. Gates must be proprietary, purpose made self closing play area gates with contrasting colour. Gates to be set to open outwards. Gates must be compliant with BS EN 1176 and BS EN 1177.
4. Gaps between individual vertical bars should be no less than 100mm.
5. Hot dip galvanized to BS EN ISO 1461 after fabrication. Galvanised process to ensure smooth finish so that there are no sharp protusions.
6. Powder coated to RAL: 7015 - slate grey, or as agreed. Erect with care to avoid chipping paintwork. Any chipped sections will not be acceptable and will need to be re-powder coated.
7. Fixings to be security countersunk fixing style using socket CSK bolts and snap off nuts. Fixing into brick piers either with built in fish tail lug or resin fixed lug. Gates must have anti removal fixings.

#### General Notes:

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- 3 Timber shall be free from splits and twists.
- 4 Units weighing in excess of 20kg must not be handled by a single person. A risk assessment must be carried out to ensure safe handling.

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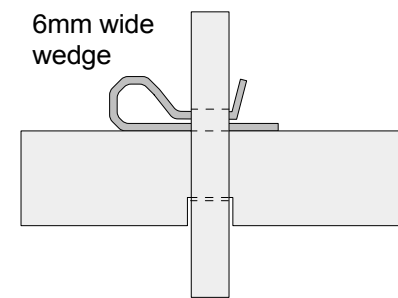
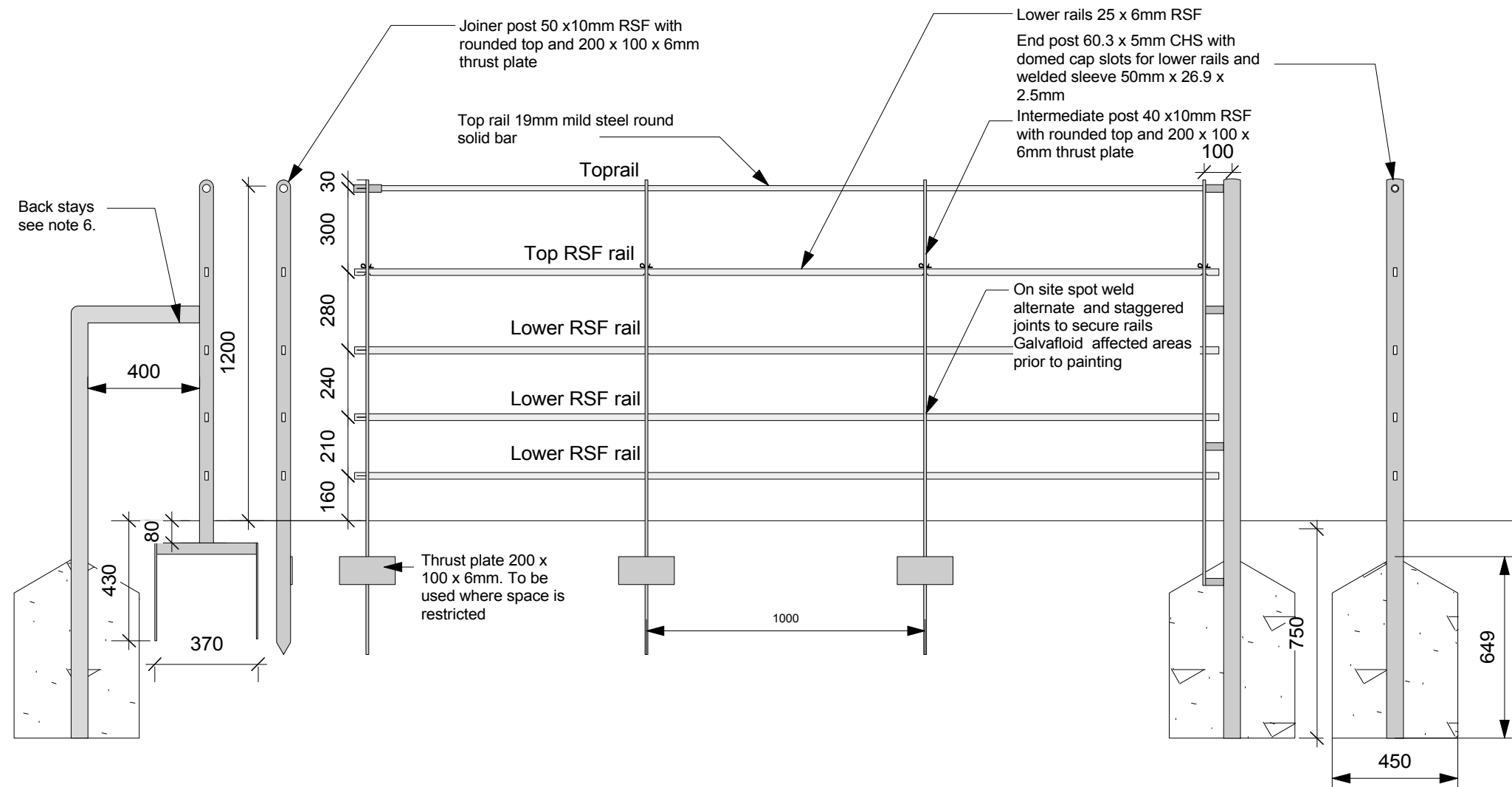
**STANDARD CONSTRUCTION DETAILS**  
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**FENCING: 1.2m HIGH HOOPED TOP FENCING**

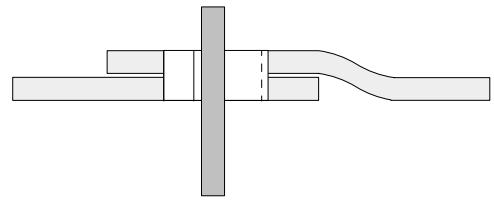
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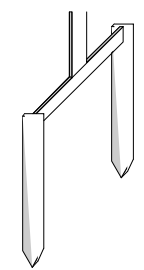
**B1**



Top RSF rail notch detail (All posts)



Rail fixing detail at joiner posts showing kinked end detail. Rails to be spot welded on site.



Alternative spike detail to be used where space allows

**B2 Traditional continuous bar estate railing. Scale 1:20 @ A3**

**NOTES:**

1. All steel components to BS 1722:9 shall be free from sharp edges and burrs.
2. All posts and rails to be hot dip galvanized to BS EN ISO 1461 after fabrication.
3. All painting of railings to be carried out after installation to avoid damage to surfaces.
4. Undercoat galvanised steel with T-wash / Mordant prior to applying topcoat.
5. Topcoat using specialist single pack vinyl paint (semi gloss) colour black, using airless spray.
6. On straight runs end posts to be positioned every 5m with additional back stays to give extra support.

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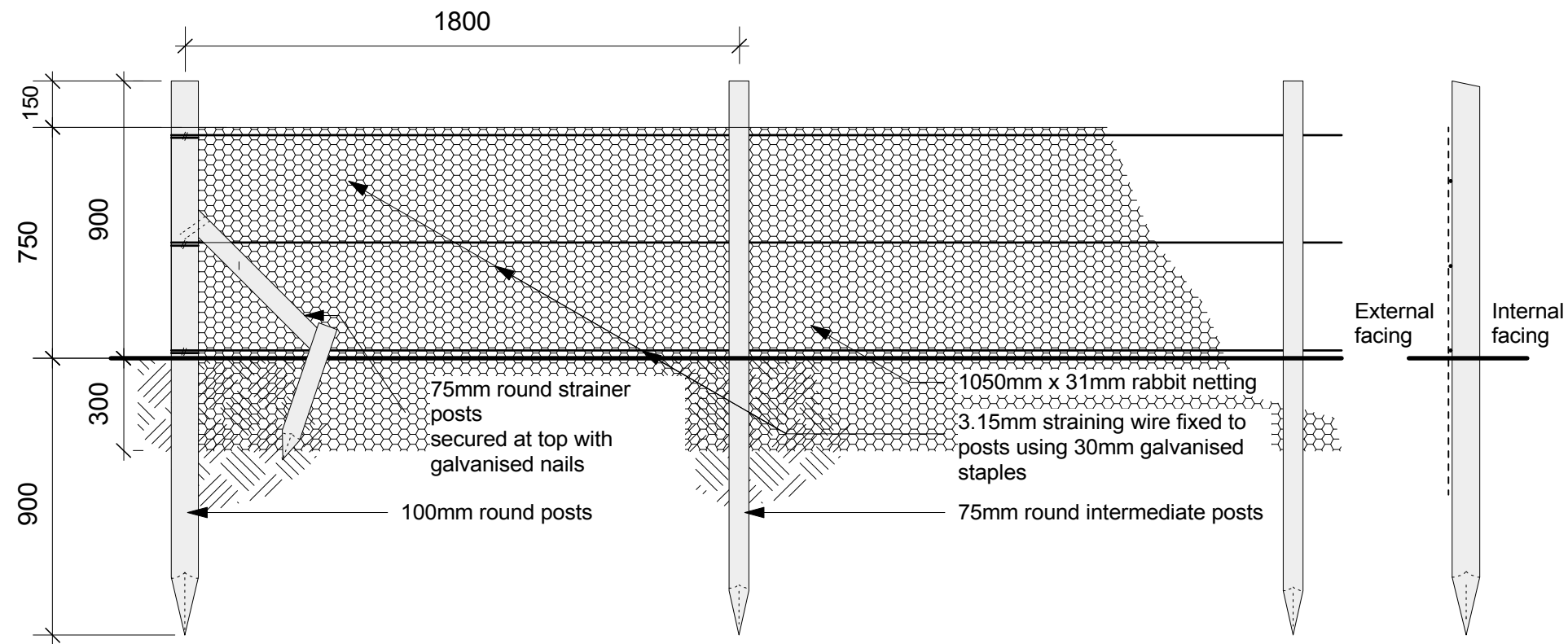


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**STANDARD CONSTRUCTION DETAILS  
for Open Green Spaces  
FENCING: TRADITIONAL CONTINUOUS BAR  
ESTATE RAILING**

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**B3 Temporary plant protection : Rabbit netting. Scale 1:20 @**

**A3**

**NOTES:**

1. Timber components shall be peeled and tanalised timber free of splits and twists and comply to BS 1722:2.
2. The top of the fence shall follow appoximately the level of the ground along the lines of the fence. Cut post tops at angle to shed water.
3. Timber shall be preserved in accordance with BS 8417 to give a 15year lifespan.
4. Wrap wire twice round posts and pin with 30mm galv staples. Wrap netting round post so that no sharp points protrude outwards. Wire to be tightened using wire strainer.
5. Rabbit netting to be trenched into ground. Excavted soil replaced and firmed down.
6. Netting secured to straining wires using clear cable ties. 4 no. per section. Tightened tie ends to be trimmed flush.
7. End post every 11m on long runs. Where used as an intermediate put straining posts on both sides.
- 8.

**General Notes:**

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3. Timber shall be free of splits and twists.
4. Units weighing in excess of 20kg must not be handled by a single person. A risk assessment must be carried out to ensure safe handling.

**STANDARD CONSTRUCTION DETAILS  
for Open Green Spaces**

**FENCING: TEMPORARY PLANT PROTECTION**

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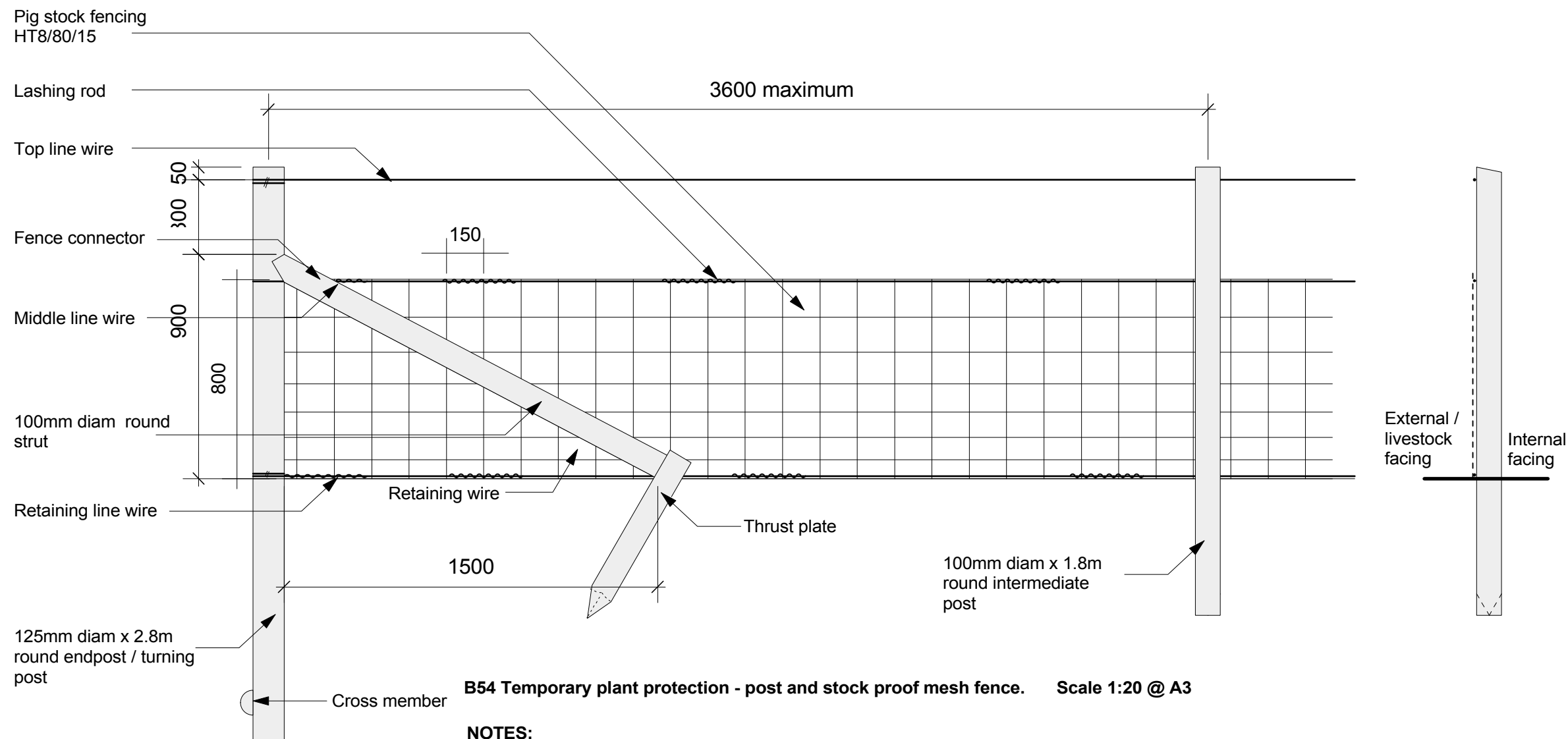
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**B3**



**B54 Temporary plant protection - post and stock proof mesh fence. Scale 1:20 @ A3**

**NOTES:**

1. Timber components shall be PPT softwood and comply to BS 1722:2.
2. The top of the fence shall follow approximately the level of the ground along the lines of the fence. Cut post tops at angle to shed water.
3. Box strutt notched into endposts by no more than a quarter of the diameter of the post.
4. Longer intermediate posts may be needed in soft conditions.
5. Line wires shall be 2.65mm spring wire or 3.15HT wire. 40 x 4mm barbed zinc coated staples to be used to act as guides only. Do not pinch wire. Line wires to be joined using preformed fence connectors (wound spirals). Top wire set 100mm above netting.
6. Netting to be attached to linewires by lashing rods with a minimum of 3 lashing rods per line wire per 12m length. Wrap netting round post so that no sharp points protrude outwards.
7. Maximum 15m to be between straining posts.

**General Notes:**

1. All units are in millimeters unless otherwise stated.
2. Do not scale from this drawing.
3. Timber shall be free of splits and twists.
4. Units weighing in excess of 20kg must not be handled by a single person. A risk assessment must be carried out to ensure safe handling.

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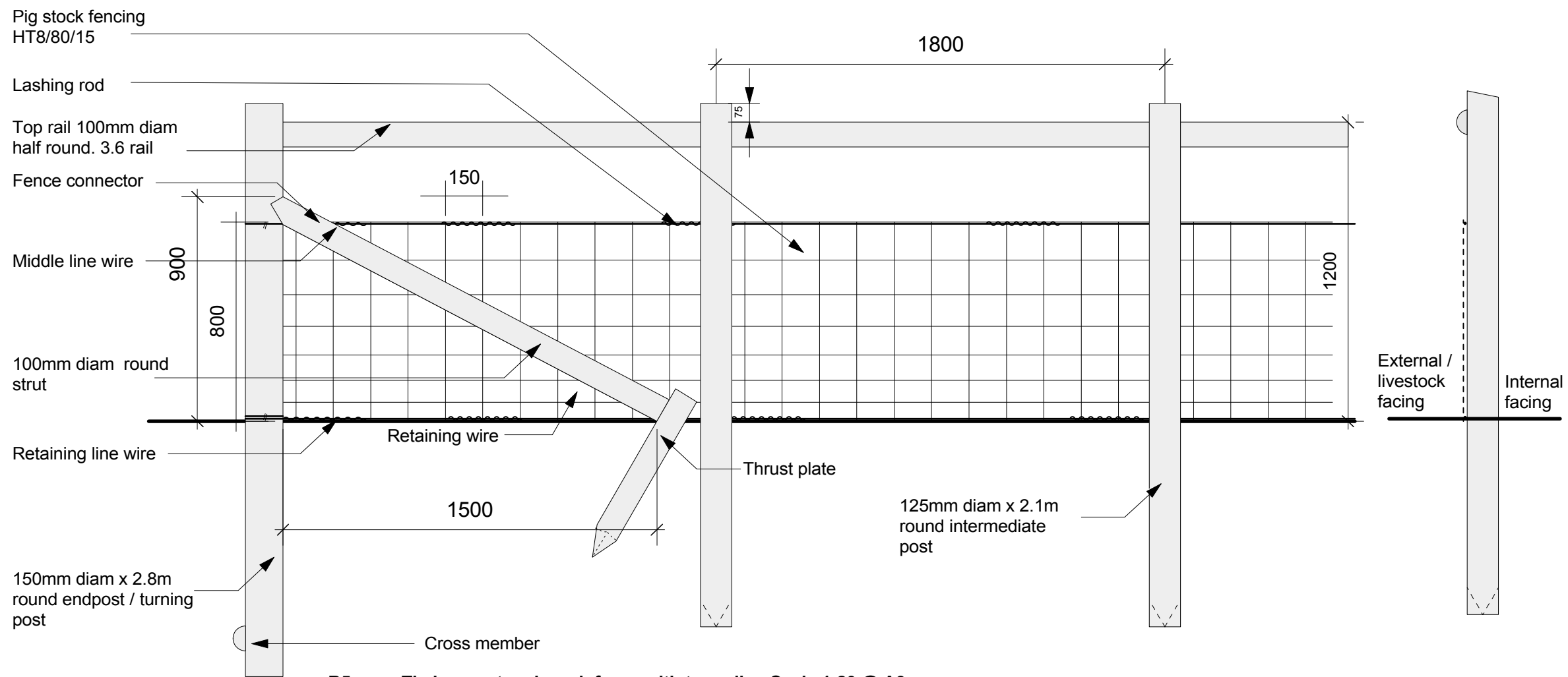
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**STANDARD CONSTRUCTION DETAILS**  
for Open Green Spaces

**FENCING: TEMPORARY PLANT PROTECTION**  
**POST AND WIRE**

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**B5: Timber post and mesh fence with top rail Scale 1:20 @ A3**

**NOTES:**

1. Timber components to comply to BS 1722:2 and shall be peeled and tanalised timber free of splits twists.
2. The top of the fence shall follow appoximately the level of the ground along the lines of the fence. Cut post tops at angle to shed water.
3. All timber components to be round wood posts and stakes and shall be preserved in accordance with BS 8417 to give a 15 year lifespan.
4. Box strutt notched into endposts by no more than a quarter of the diameter of the post.
5. Longer intermediate posts may be needed in soft conditions.
6. Line wires shall be 2.65mm spring wire or 3.15HT wire. 40 x 4mm barbed zinc coated staples to be used to act as guides only. Do not pinch wire. Line wires to be joined using preformed fence connectors (wound spirals).
7. Netting to be attached to linewires by lashing rods with a minimum of 3 lashing rods per line wire per 12m length. Wrap netting round post so that no sharp points protrude outwards.

**General Notes:**

1. All units are in millimeters unless otherwise stated.
2. Do not scale from this drawing.
3. Timber shall be free of splits and twists.
4. Units weighing in excess of 20kg must not be handled by a single person. A risk assessment must be carried out to ensure safe handling.

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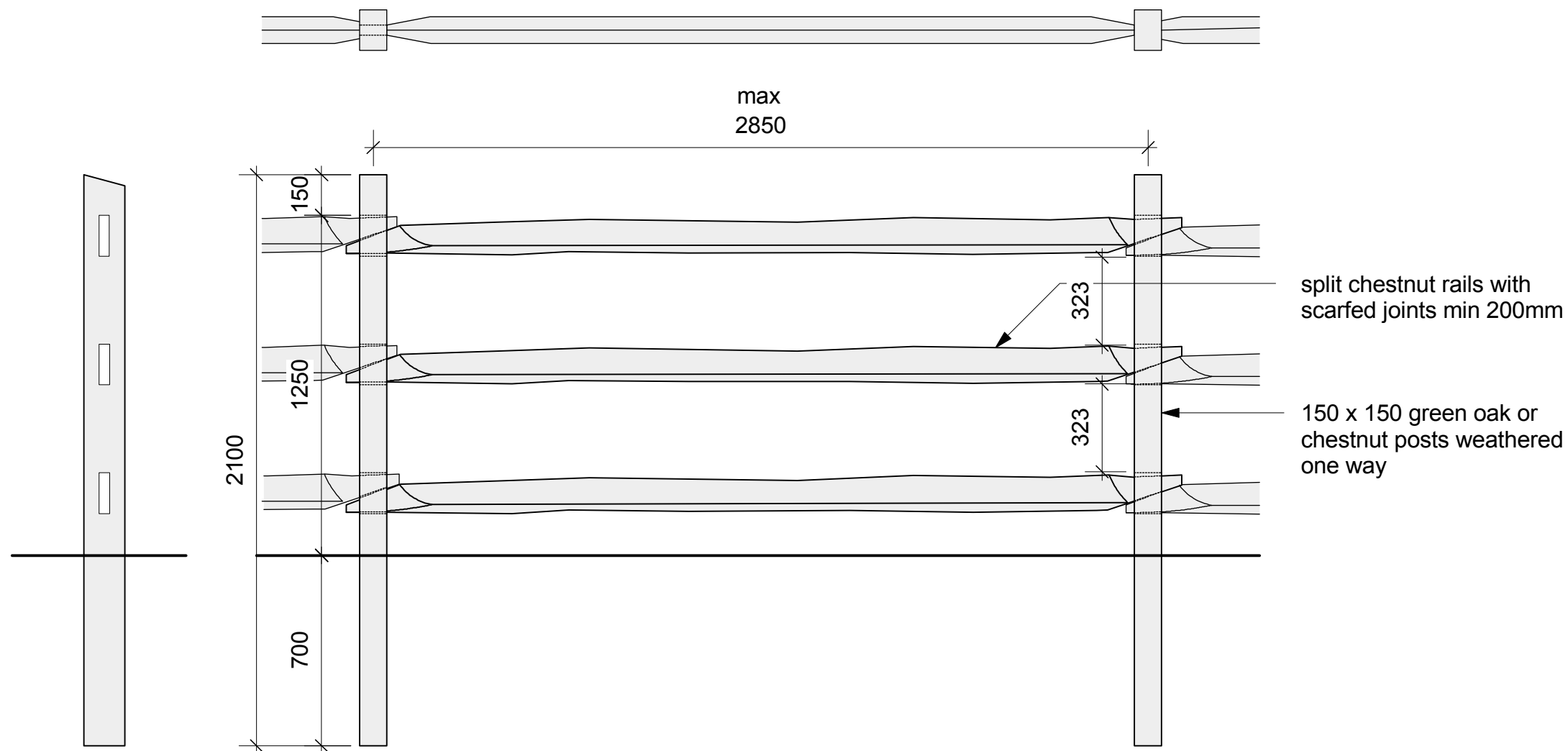
**STANDARD CONSTRUCTION DETAILS**  
**for Open Green Spaces**  
**FENCING: TIMBER POST AND MESH FENCE**  
**WITH TOP RAIL**

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**B5**





**B6 Post and cleft chestnut rail fence** Scale 1:20 @ A3

**NOTES:**

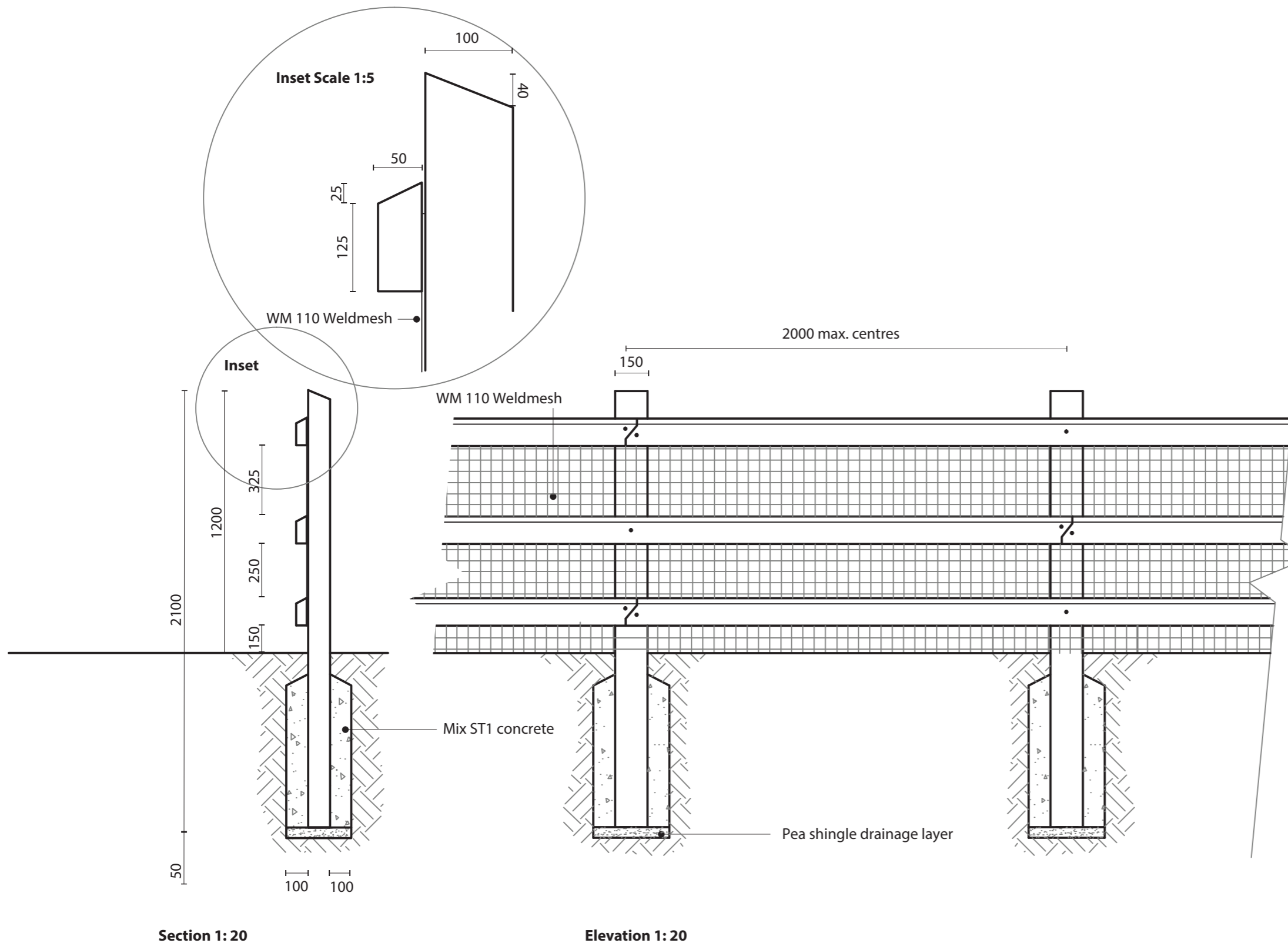
1. Fencing to comply to BS 1722-7:2006 Type HPCR 125/3
2. The top of the fence shall follow approximately the level of the ground along the lines of the fence.
3. When using single mortices (38mm x 150mm) ensure the rail is scarfed by a min 200mm. Double mortices may be used. rail to be fixed ensuring bark is on the underside. rails fixed to posts with 2no. 4mm x 100mm nails. Nails to be clenched.
4. The centreline of the rail shall at no point deviate more than 25mm from a straight line between main posts. The girth over the middle third of any cleft rail shall be a minimum of 250mm. The sides having a minimum of 70mm each.

**General Notes:**

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3. Timber shall be free of splits and twists.
4. Units weighing in excess of 20kg must not be handled by a single person. A risk assessment must be carried out to ensure safe handling.

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**General Notes:**

- 1 All post and rails to be certified hardwood, green oak or chestnut
- 2 Posts 100x150 x 2100, weathered one way as shown. Rails 125x50, chamfered as shown. Stagger joints as shown, fix using recessed headed stainless steel coach screws. Nails will not be accepted.
- 3 WM 110 Weldmesh, or similar, to be sandwiched between posts and rails. Weldmesh to be fixed to rails at 500 centres and to posts. Mesh to terminate at posts only.
- 4 Alternative meshes shall be a maximum mesh size 100mm and minimum wire diameter of 1.15mm, galvanised or plastic coated

**General Notes:**

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- 3 Timber shall be free from splits and twists.
- 4 Units weighing in excess of 20kg must not be handled by a single person. A risk assessment must be carried out to ensure safe handling.



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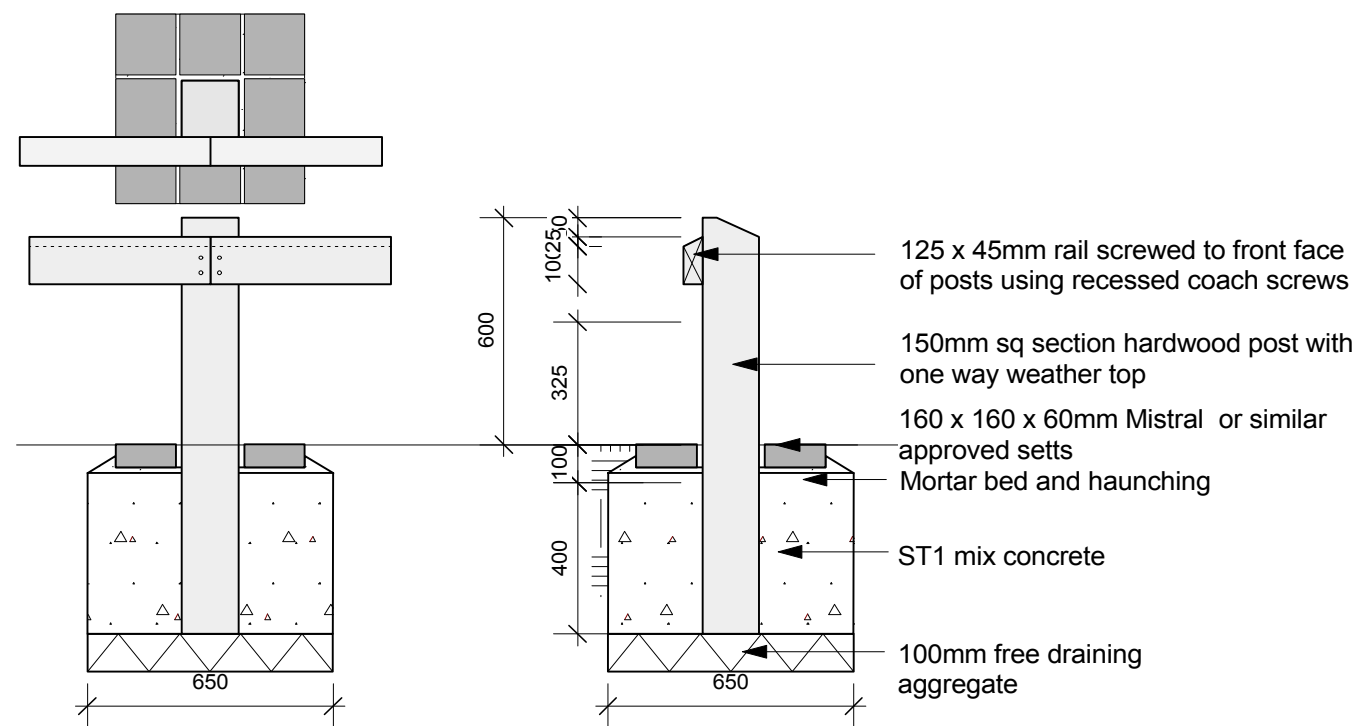
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**STANDARD CONSTRUCTION  
DETAILS for Open Green Spaces**  
POST AND 3 RAIL TIMBER FENCE (with  
optional mesh)



**B8: Knee Rail. Scale 1:20 @ A3**

**NOTES:**

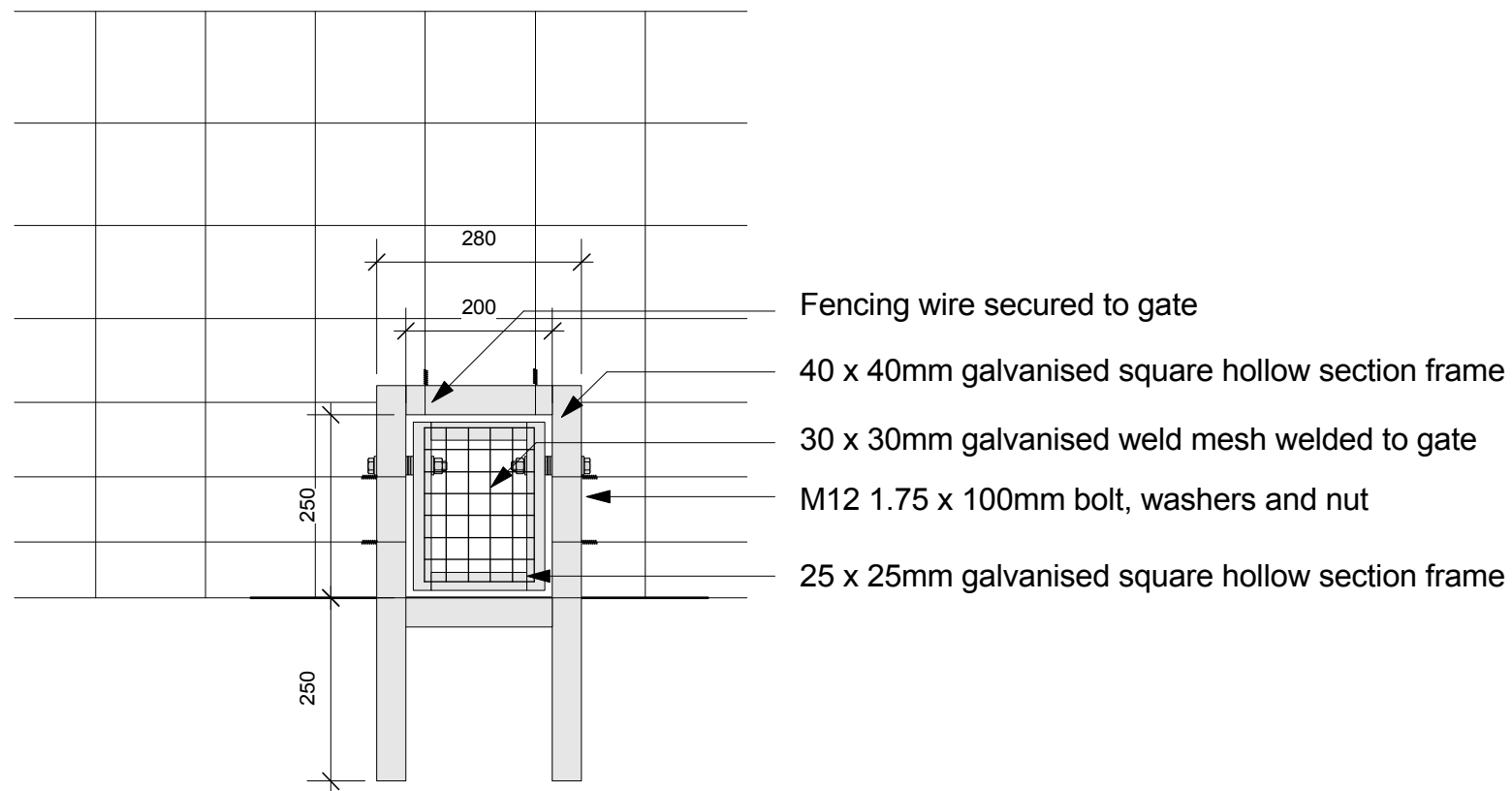
1. Posts to be hardwood. All other timber shall be planed and sanded PPT softwood.
2. Softwood timber shall be preserved in accordance with BS 8417 to give a 15 year lifespan.
3. Where marking a path edge posts to be abbutted tight to edge restraint or included within edge restraint detail where appropriate

**General Notes:**

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3. Timber shall be free of splits and twists.
4. Units weighing in excess of 20kg must not be handled by a single person. A risk assessment must be carried out to ensure safe handling.

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**B9 Badger gate Scale 1:10 @ A3**

NOTE:

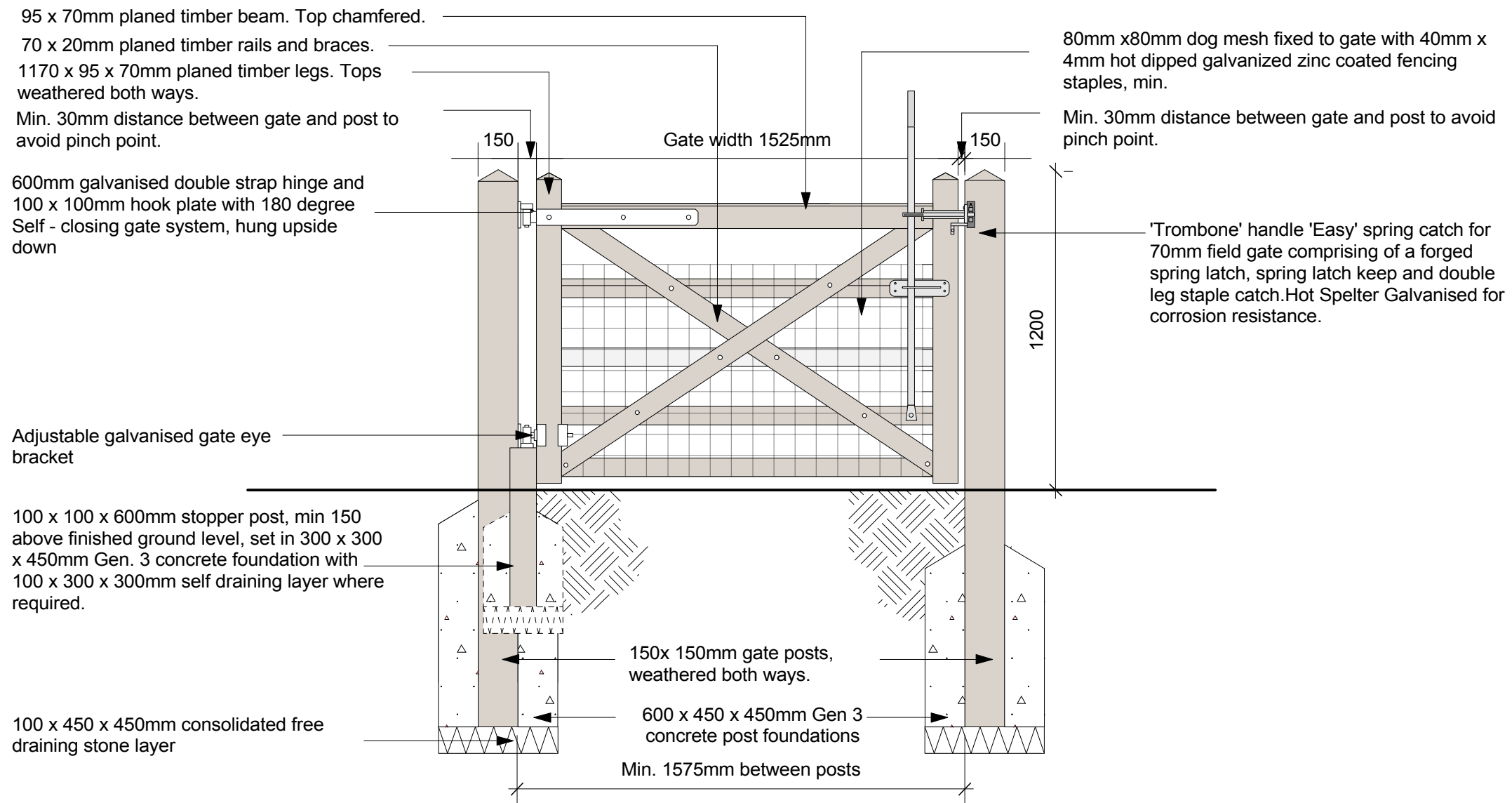
Use where directed - ie known live badger routes at the direction of Landscape Architect / ecologist.

**General Notes:**

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3. Timber shall be free of splits and twists.
4. Units weighing in excess of 20kg must not be handled by a single person. A risk assessment must be carried out to ensure safe handling.

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**B10** Pedestrian timber gate Scale 1:20 @A3

**NOTES:**

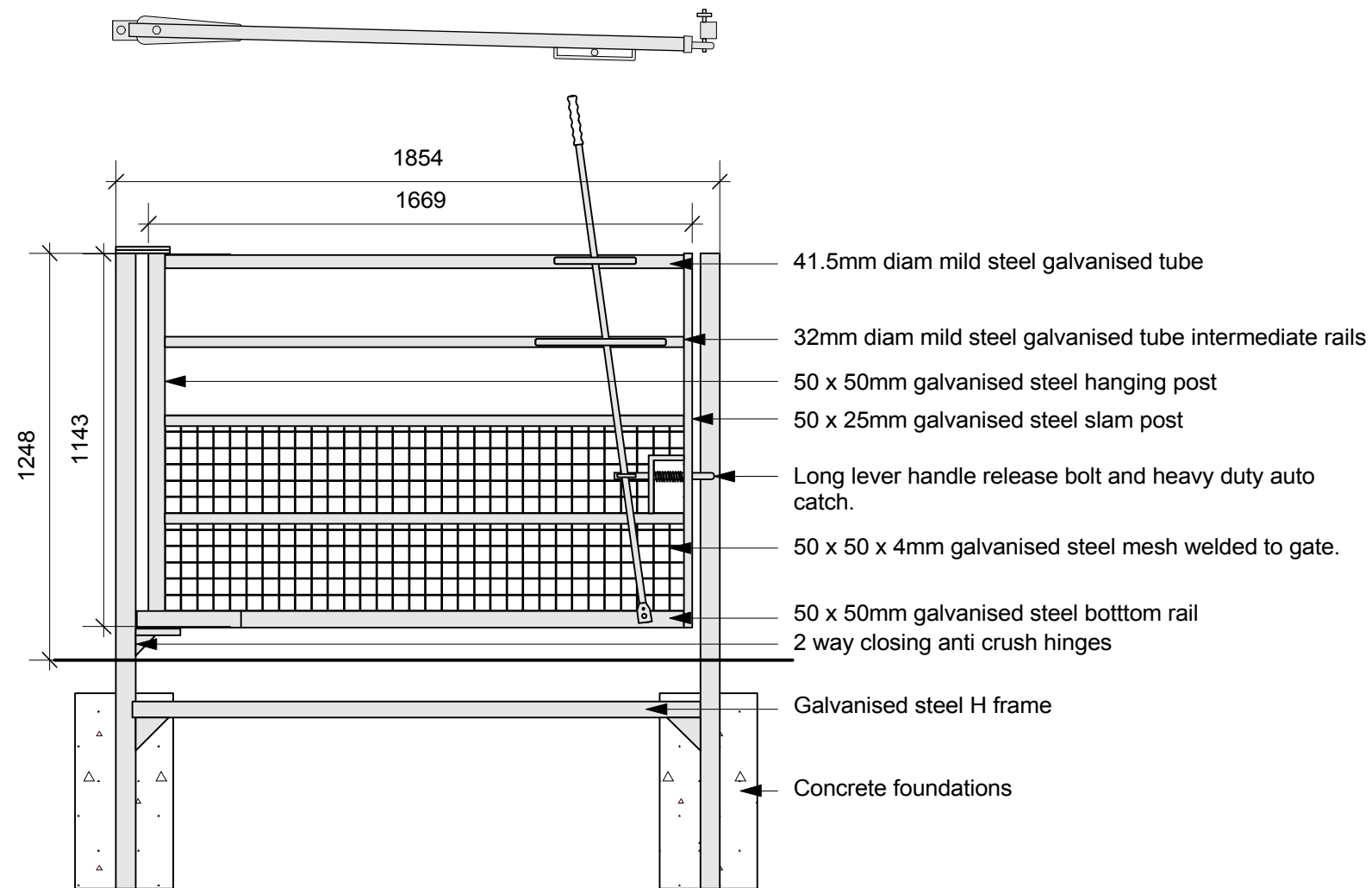
1. Hanging post can be combined with feature post see F9.
2. Ensure adjacent fencing type share posts or install double post (end of fence/gate post) with no gaps.
3. Gates to comply generally to BS 5709 especially giving minimum 30mm gap between gate and post.
4. Timber shall be preserved in accordance with BS 8417 to give a 20 year lifespan.

**General Notes:**

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**B11 Galvanised steel pedestrian gates** Scale 1:20 @ A3

**NOTES:**

1. Gates to give minimum 30mm gap between gate and post.
2. Gates to comply to BS5709:2006
3. Gates, posts and furniture to be mild steel galvanised treated.
4. Gate to be installed with gate opening into the field.

**General Notes:**

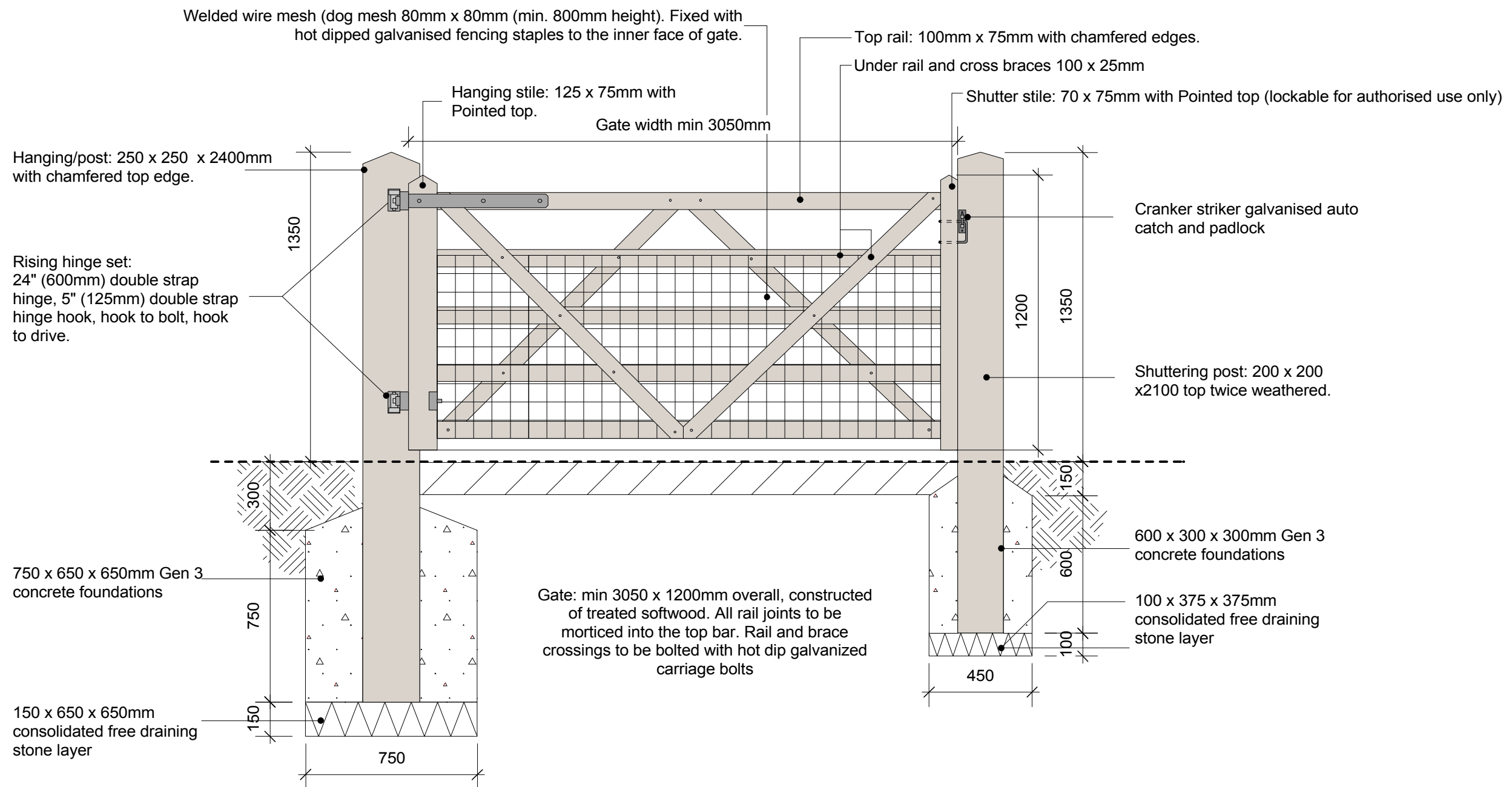
1. All units are in millimeters unless otherwise stated.
2. Do not scale from this drawing.
3. Timber shall be free of splits and twists.
4. Units weighing in excess of 20kg must not be handled by a single person. A risk assessment must be carried out to ensure safe handling.

**STANDARD CONSTRUCTION DETAILS  
for Open Green Spaces**

**GATEWAY: PEDESTRIAN, STEEL**

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**B12 Vehicular timber gate for maintenance access** Scale 1:20 @A3

**NOTES:**

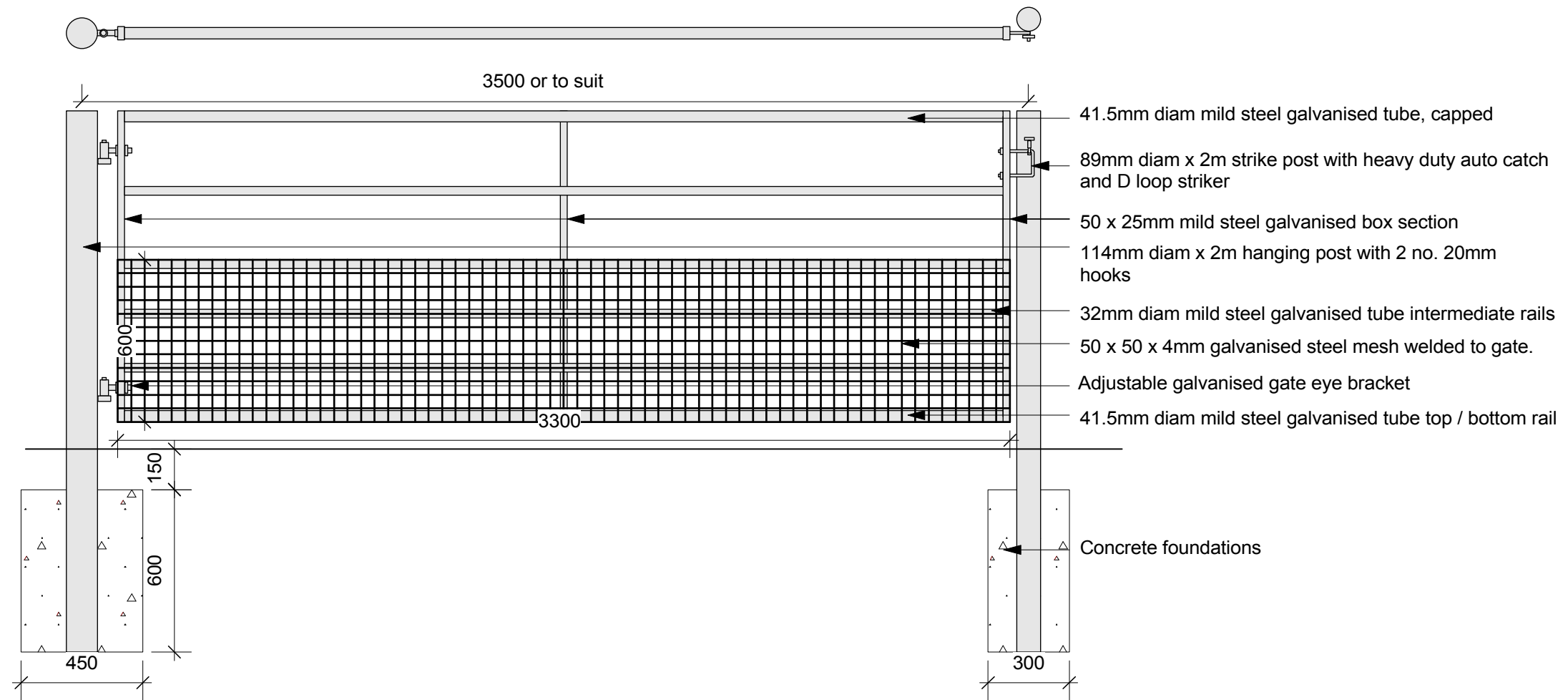
1. Not to be used as play area specific gates
2. Gates to comply generally to BS 5709 especially giving minimum 30mm gap between gate and post.
3. Timber shall be preserved in accordance with BS 8417 to give a 20 year lifespan.

**General Notes:**

1. All units are in millimeters unless otherwise stated.
2. Do not scale from this drawing.
3. Timber shall be free of splits and twists.
4. Units weighing in excess of 20kg must not be handled by a single person. A risk assessment must be carried out to ensure safe handling.

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**B13 Galvanised steel field gates Scale 1:20 @ A3**

**NOTES:**

1. Gates to give minimum 30mm gap between gate and post.
2. Gates to comply to BS5709:2006
3. Gates, posts and furniture to be mild steel galvanised treated.
4. Gate to be installed with gate opening into the field. Mesh on livestock side of gate to prevent livestock climbing rails.

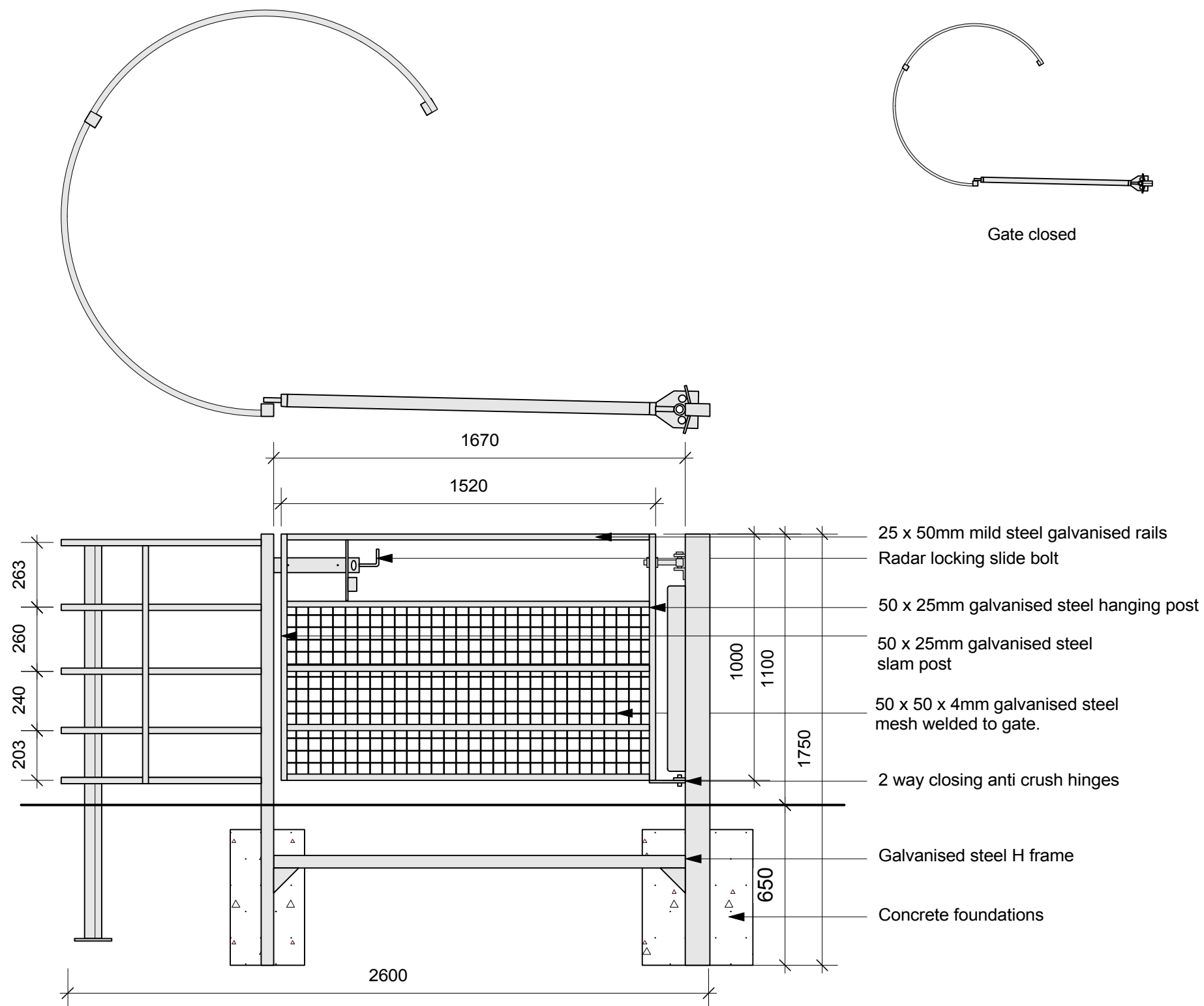
**General Notes:**

1. All units are in millimeters unless otherwise stated.
2. Do not scale from this drawing.
3. Timber shall be free of splits and twists.
4. Units weighing in excess of 20kg must not be handled by a single person. A risk assessment must be carried out to ensure safe handling.

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**NOTES:**

1. Gates to give minimum 30mm gap between gate and post.
2. Gates to comply to BS5709:2006
3. Gates, posts and furniture to be mild steel galvanised treated.

**General Notes:**

1. All units are in millimeters unless otherwise stated.
2. Do not scale from this drawing.
3. Timber shall be free of splits and twists.
4. Units weighing in excess of 20kg must not be handled by a single person. A risk assessment must be carried out to ensure safe handling.

**B14 Galvanised steel RADAR kissing gate** Scale 1:20 @ A3

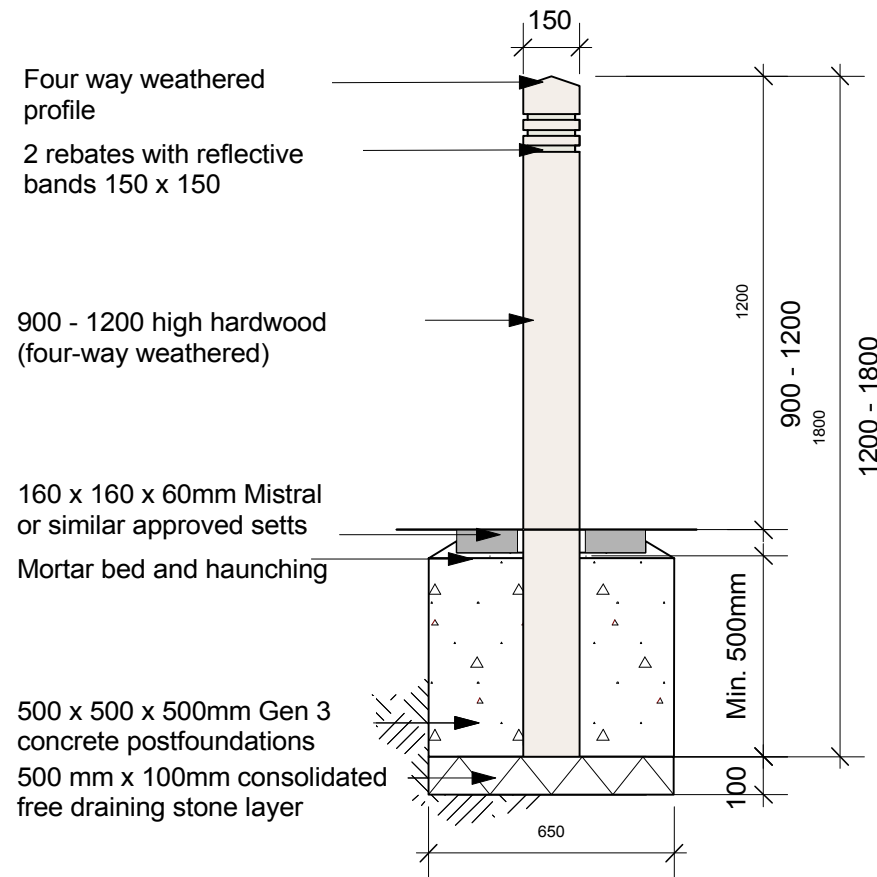
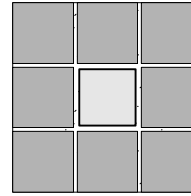


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**STANDARD CONSTRUCTION DETAILS  
for Open Green Spaces  
GATEWAY: PEDESTRIAN STEEL  
RADAR KISSING GATE**

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**B15:** Timber bollard Scale 1:20

**NOTES:**

Joints to be less than 10mm.

**General Notes:**

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4. Units weighing in excess of 20kg must not be handled by a single person. A risk assessment must be carried out to ensure safe handling.



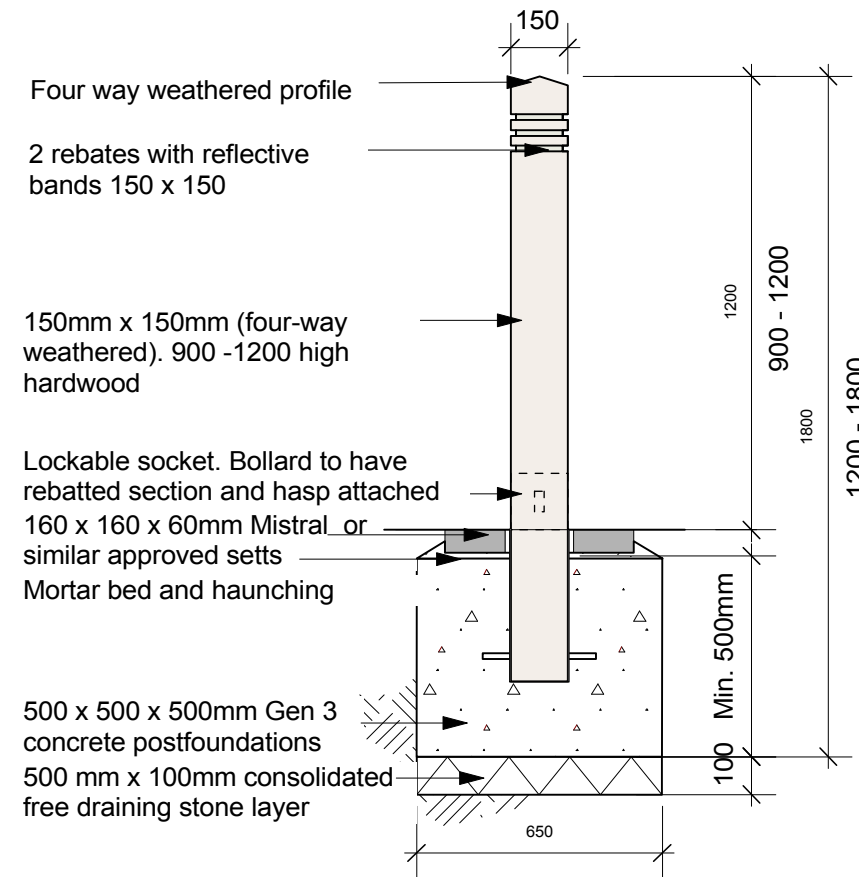
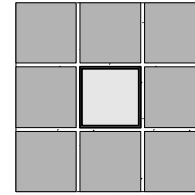
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**STANDARD CONSTRUCTION DETAILS  
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**GATEWAY: BOLLARDS**

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**B16: Timber bollard - Removable:** Scale 1:20

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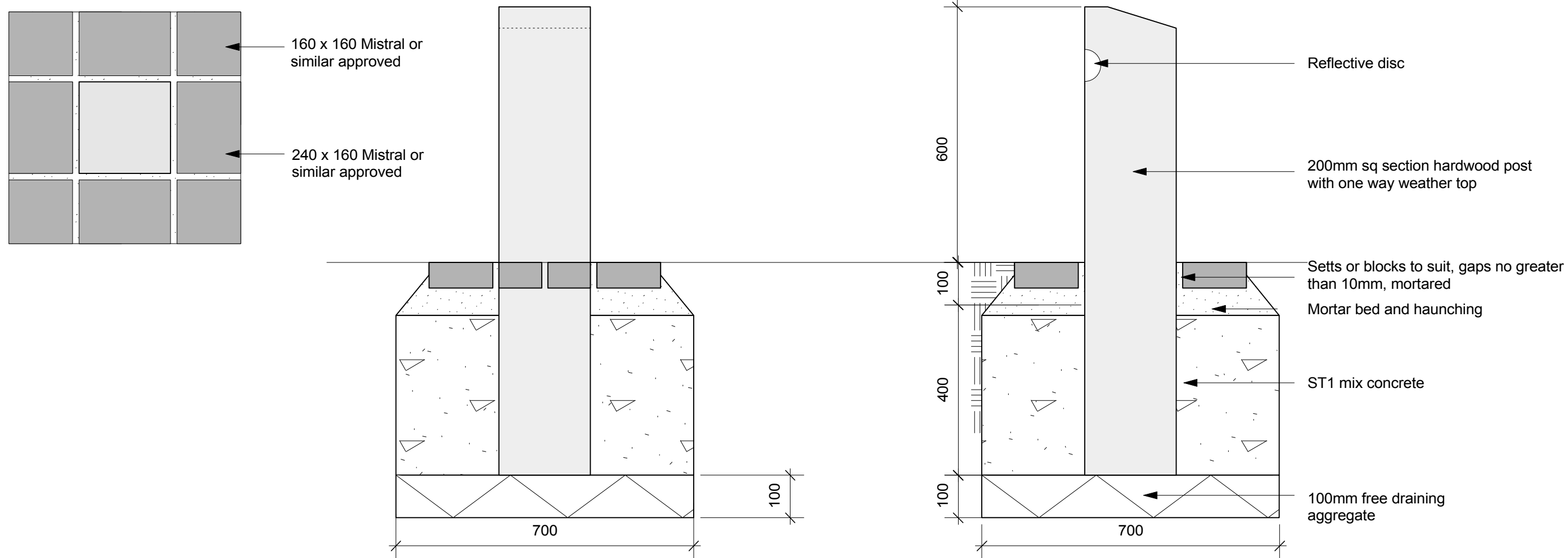
Joints to be less than 10mm.

**General Notes:**

1. All units are in millimeters unless otherwise stated.
2. Do not scale from this drawing.
3. Timber shall be free of splits and twists.
4. Units weighing in excess of 20kg must not be handled by a single person. A risk assessment must be carried out to ensure safe handling.

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**B17: Dragons teeth** Scale 1:10 @A3

**General Notes:**

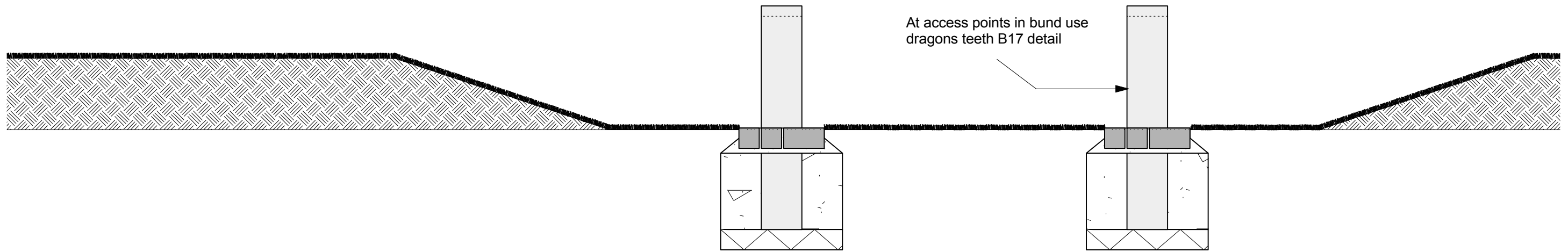
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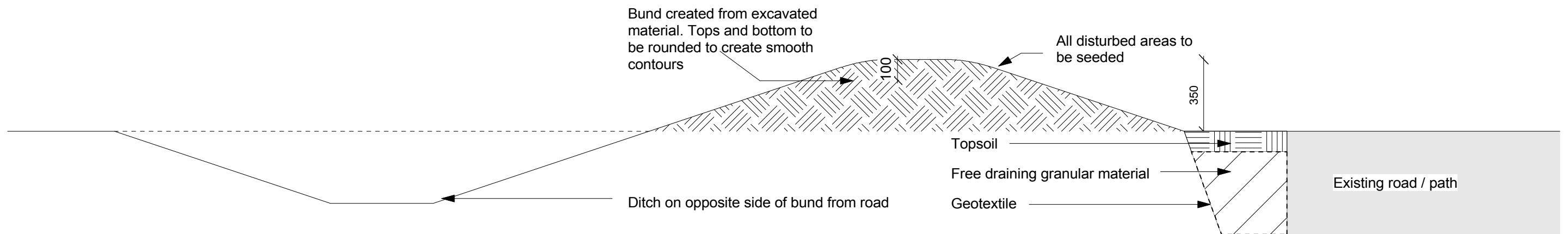
**GATEWAY: DRAGONS TEETH**

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Elevation



Section.

**B18 Roadside bund Scale 1:20 @ A3**

NOTES:

1. Slopes profiled to prevent driving over.
2. Typical 'open forest' detail to prevent vehicle encroachment onto open areas.

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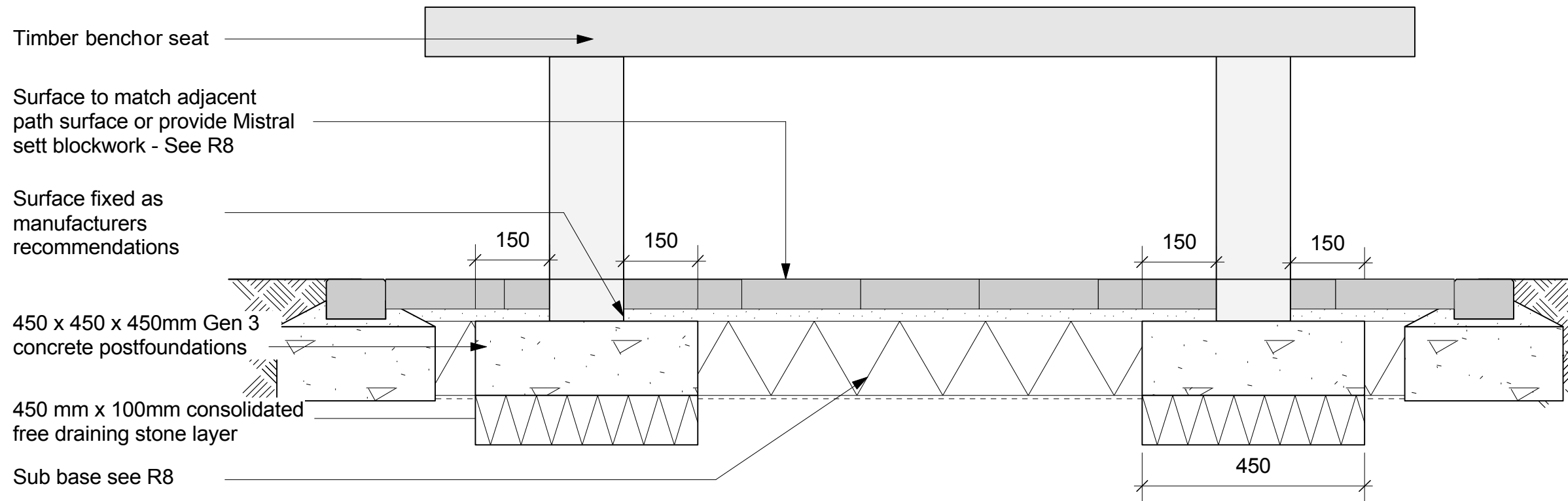
**STANDARD CONSTRUCTION DETAILS**  
for Open Green Spaces

**GATEWAY: DITCH AND BUND COMBINATIONS**

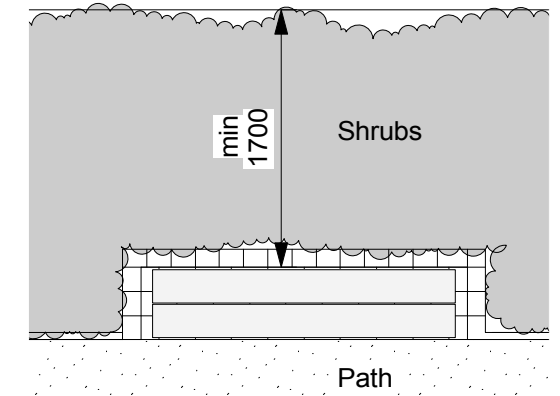
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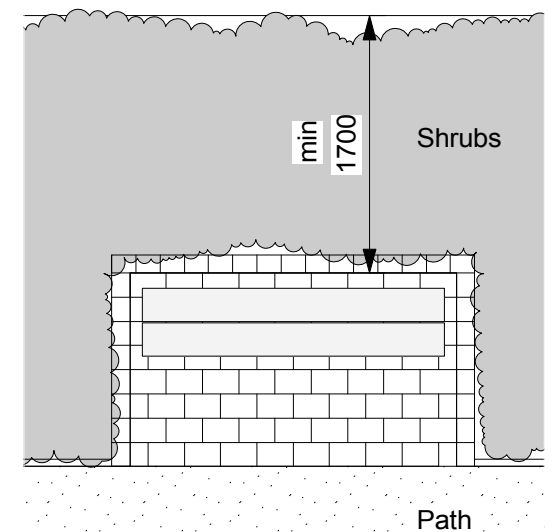
**NOTE:** Seats and benches to be installed on a hard surfaced plinth, as shown below in section.  
The examples of suitable seats and benches do not illustrate this requirement



Section detail.



Plan view: preferred option.



Plan view Alternative option.



Tooting slatted seat with waved backrest  
**Woodscape**



Greenwich iroko park benches  
**Branson Leisure**



Westminster  
**Broxap**



Edale rustic  
**Broxap**



Type 2 hardwood bench  
**Woodscape**



Zen FSC green oak bench  
**Chris Nangle Furniture**

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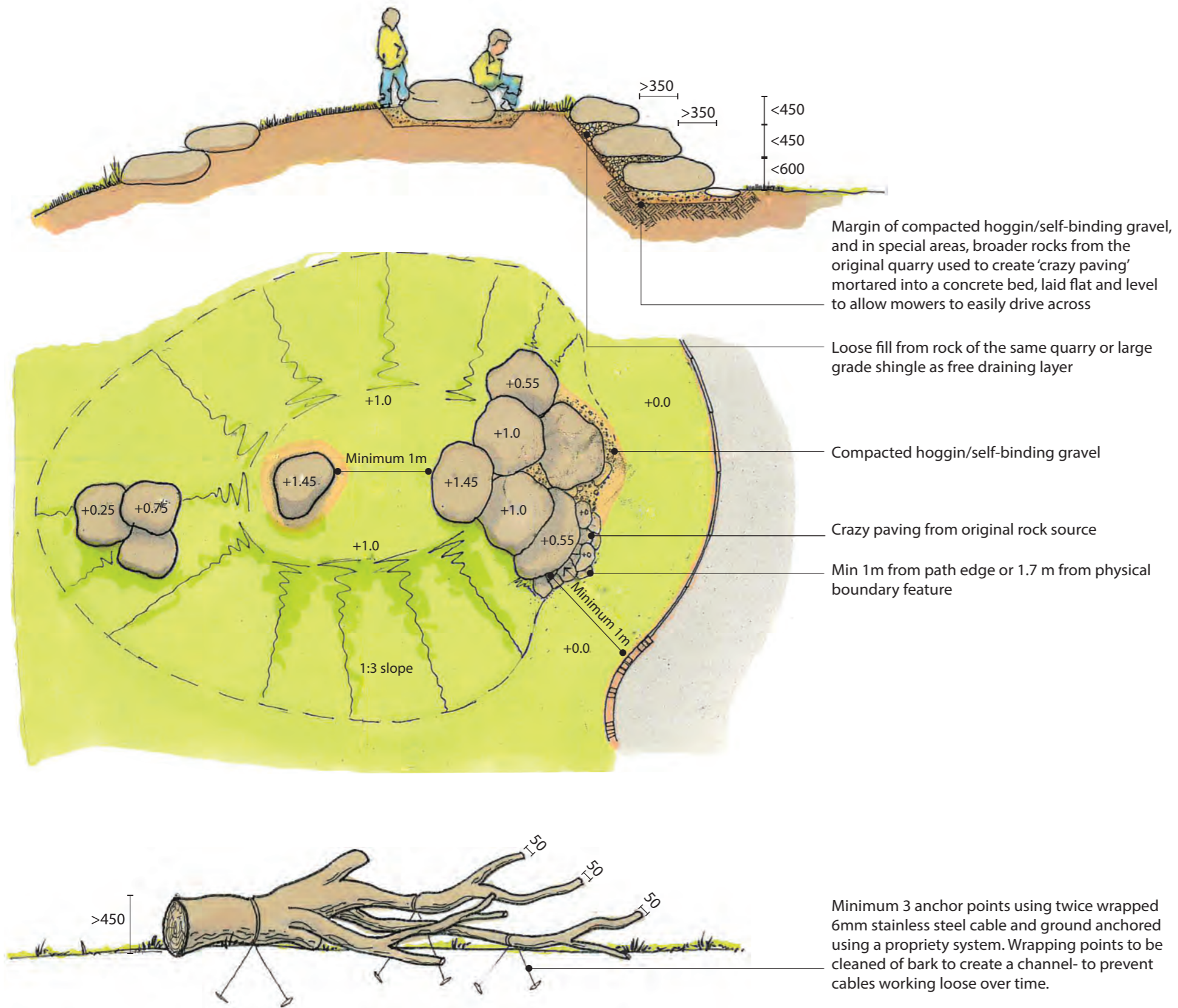
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**STANDARD CONSTRUCTION DETAILS**  
**for Open Green Spaces**  
**HARDWOOD TIMBER SEAT OR BENCH**

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## Landscape Features

Boulders and logs may be used outside of defined play spaces in combination with banks, slopes, mounds and dips in order to enhance the appearance and add variety to the terrain, offer informal seating and stopping opportunities as well as creating minor landmarks and definition to paths, entrances, margins and destinations. Mounds must be feathered into a terrain, never appearing as entirely distinct departures from the surrounding topography. Avoid hard breaks of slope unless sculptural form is a clear aspiration for a distinctly man-made landscape. Avoid the tendency for mounds to appear as pimples applied to otherwise entirely flat land.

### Boulders:

1 All boulders should be from a single rock type without layers of sharper stones/flints and should be of a type that does not easily crumble or flake. Dorset Limestone, Purbeck rockery stone or Gabbro stone has been found to suit most situations.

2 Typical boulder size should be between 300 and 600mm and a minimum of 450mm broad in any direction but typically around 700mm broad.

3 All exposed faces should have any sharp projections or angles removed.

### Logs:

1 Logs/trunks must have a minimum diameter of 450mm.

2 All branches to be trimmed to a minimum diameter of 50mm, trimmed and chamfered to remove sharp or splintered ends.

3 All rot and hollows to be cleaned out to leave no water traps

4 Logs/trunks be fixed to the ground so as not to move or rock when climbed on.

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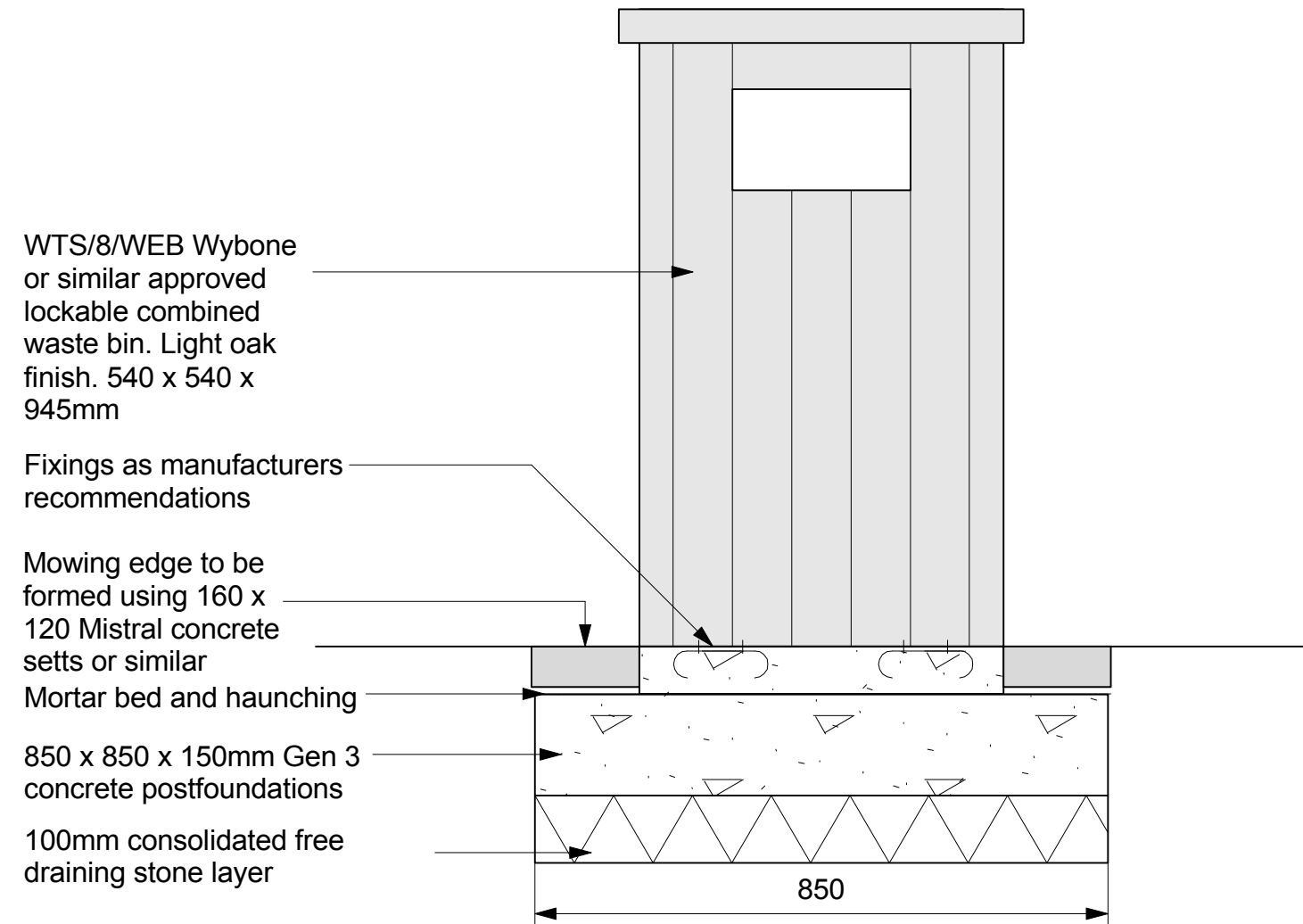
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STANDARD CONSTRUCTION DETAILS  
for Open Green Spaces  
LANDSCAPE FEATURES

F2 and F3



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Drawn By  
  
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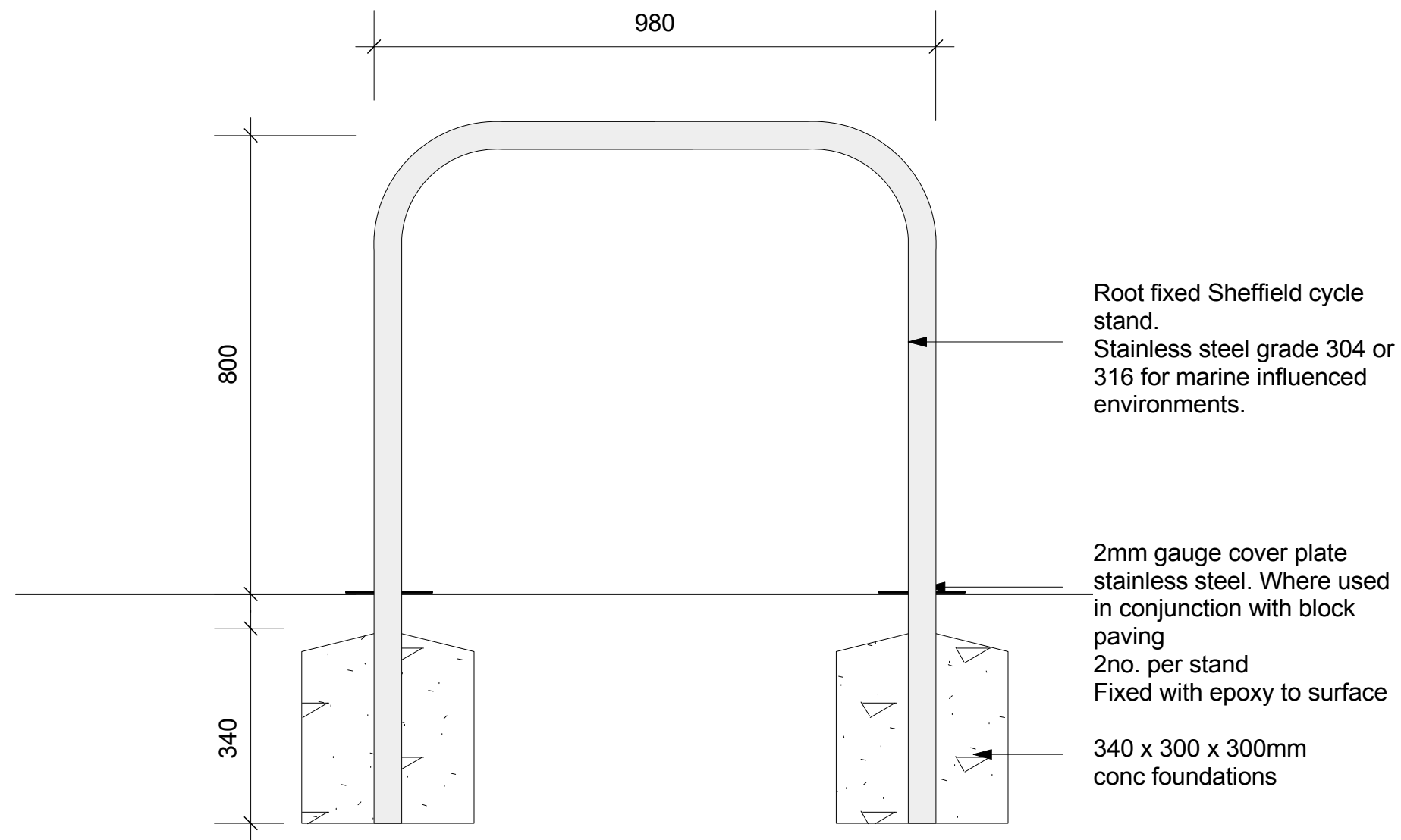
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**STANDARD CONSTRUCTION DETAILS**  
**for Open Green Spaces**  
**COMBINED LITTER AND DOG WASTE BIN**

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Root fixed Sheffield cycle stand.  
Stainless steel grade 304 or 316 for marine influenced environments.

2mm gauge cover plate stainless steel. Where used in conjunction with block paving  
2no. per stand  
Fixed with epoxy to surface

340 x 300 x 300mm conc foundations

Typical Cycle stands Scale 1:10

**NOTES:**

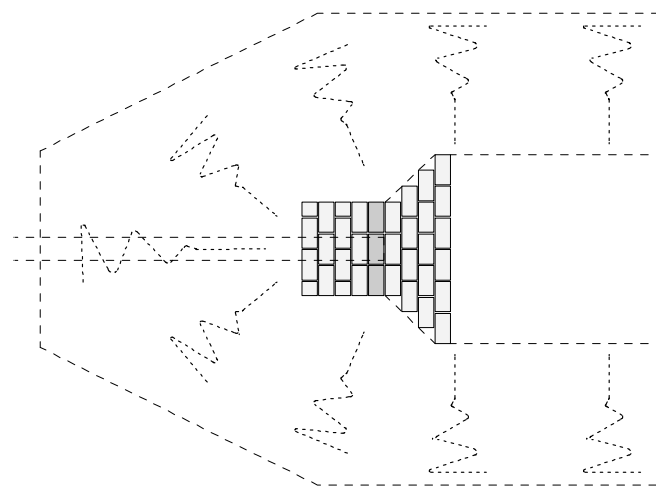
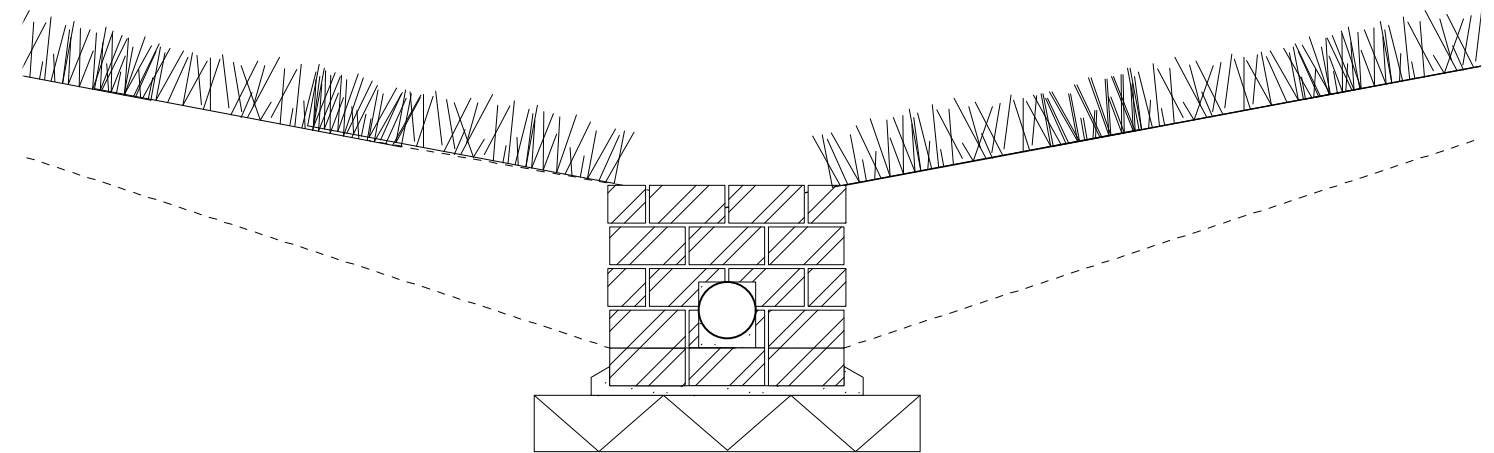
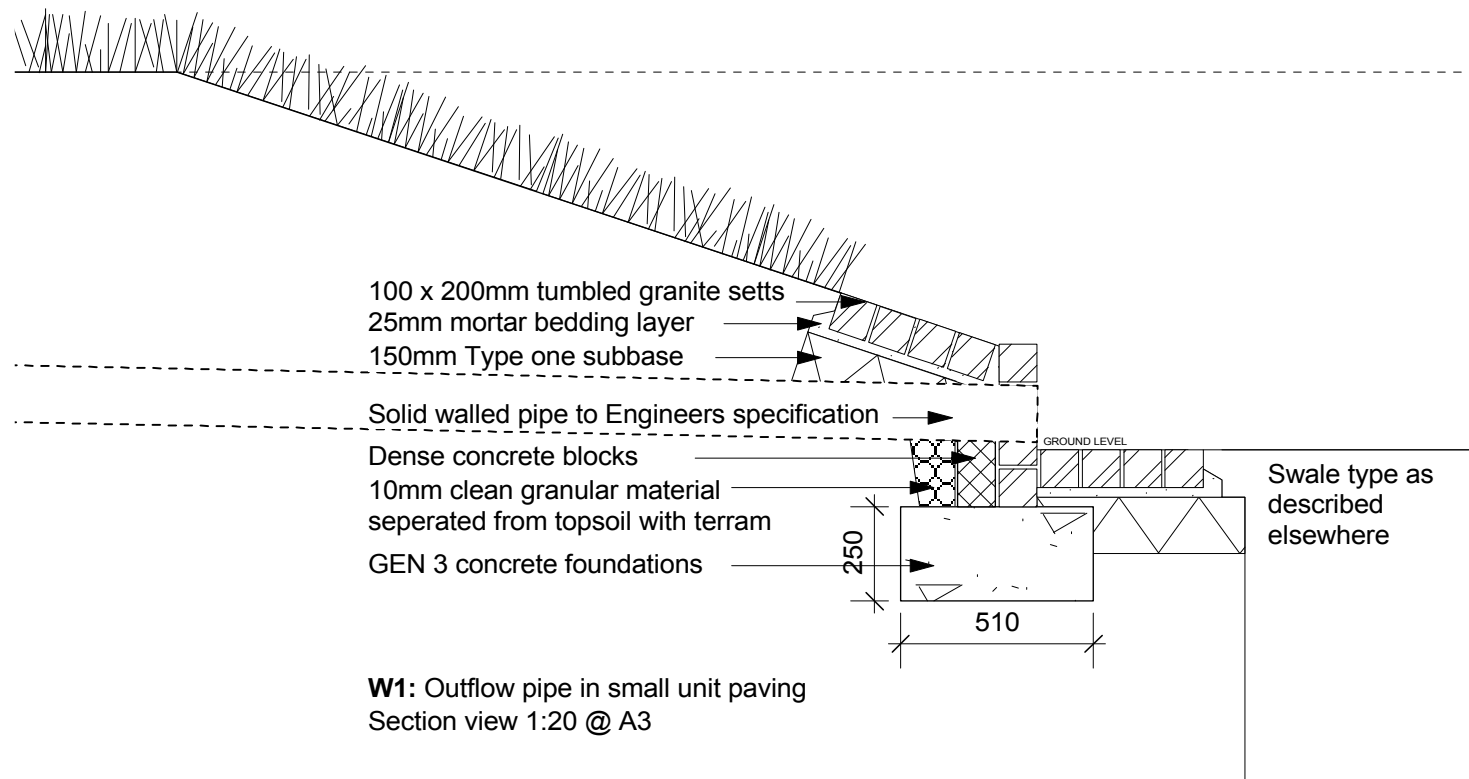
1. Space bike hoops min 800mm apart.
2. Finish to be brushed stainless steel Grade 304 min.
3. Stands to be root fixed into concrete foundations. Cover plates to be used in conjuncture with stands. Stainless steel to match stand. Fixed to surface with proprietary epoxy.
4. Where used in conjuncture with block paving and bitmac surface use cover plate as shown.

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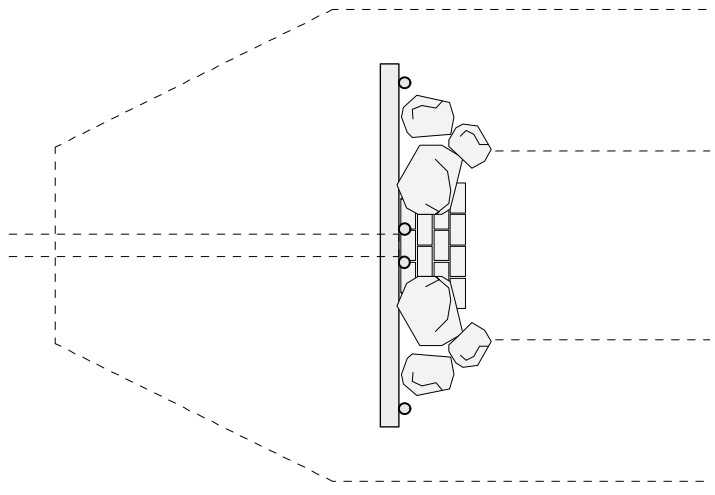
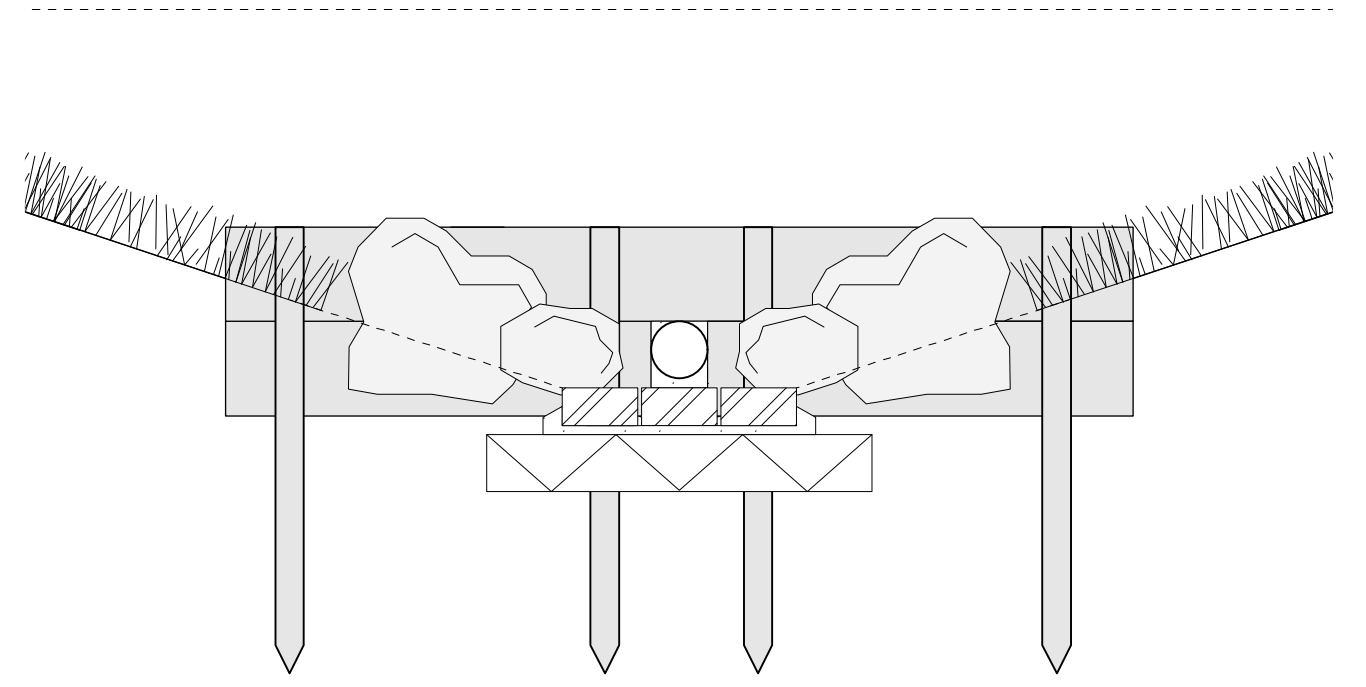
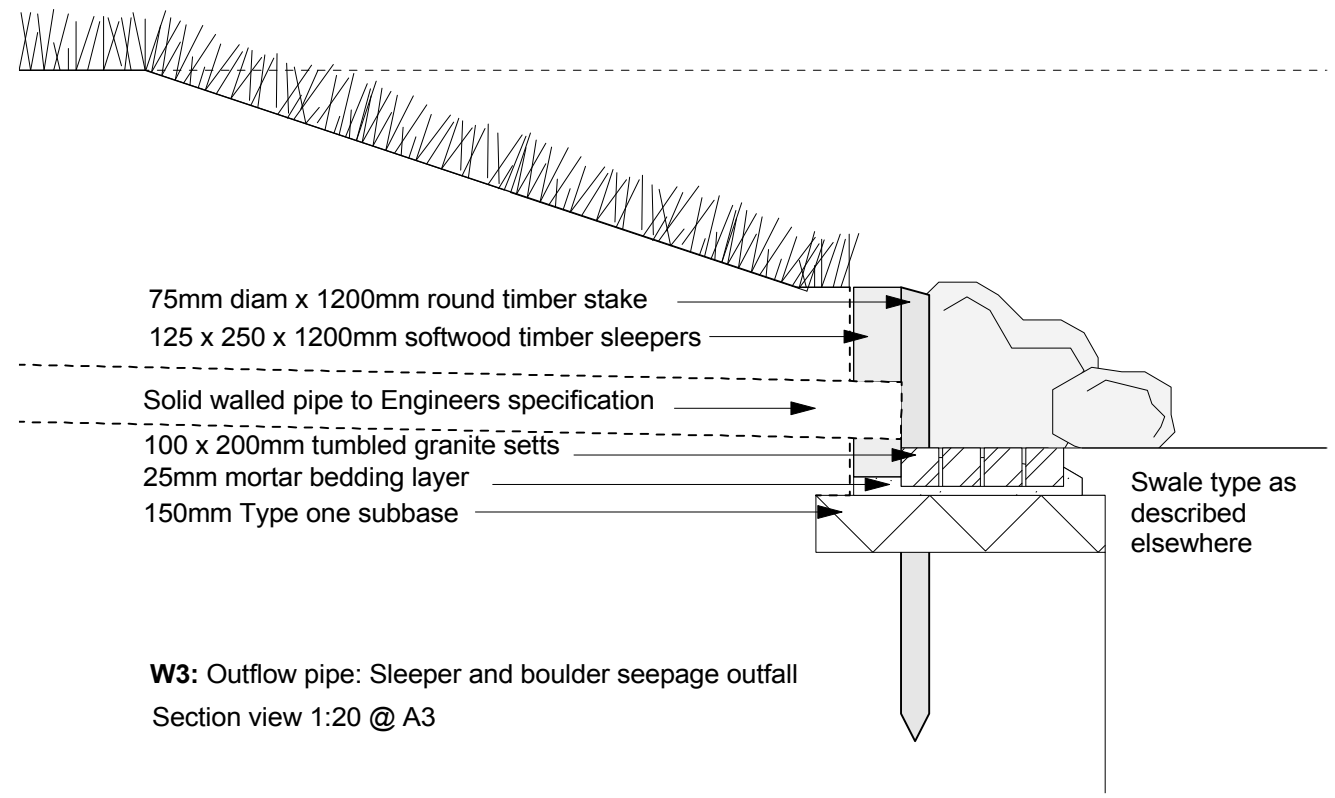
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**STANDARD CONSTRUCTION DETAILS**  
for Open Green Spaces  
**OUTFLOW: SMALL UNIT PAVER**

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**W1**



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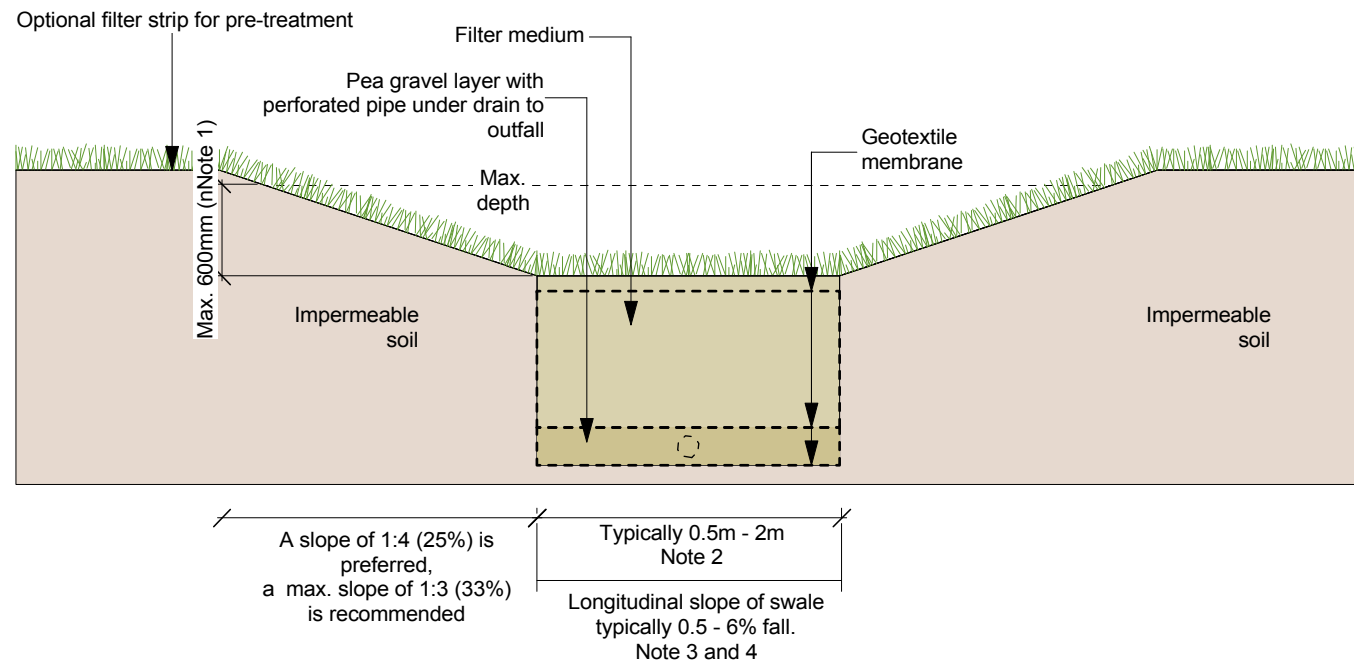


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**STANDARD CONSTRUCTION DETAILS  
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 OUTFLOW: Sleeper and Boulder seepage Outfall**

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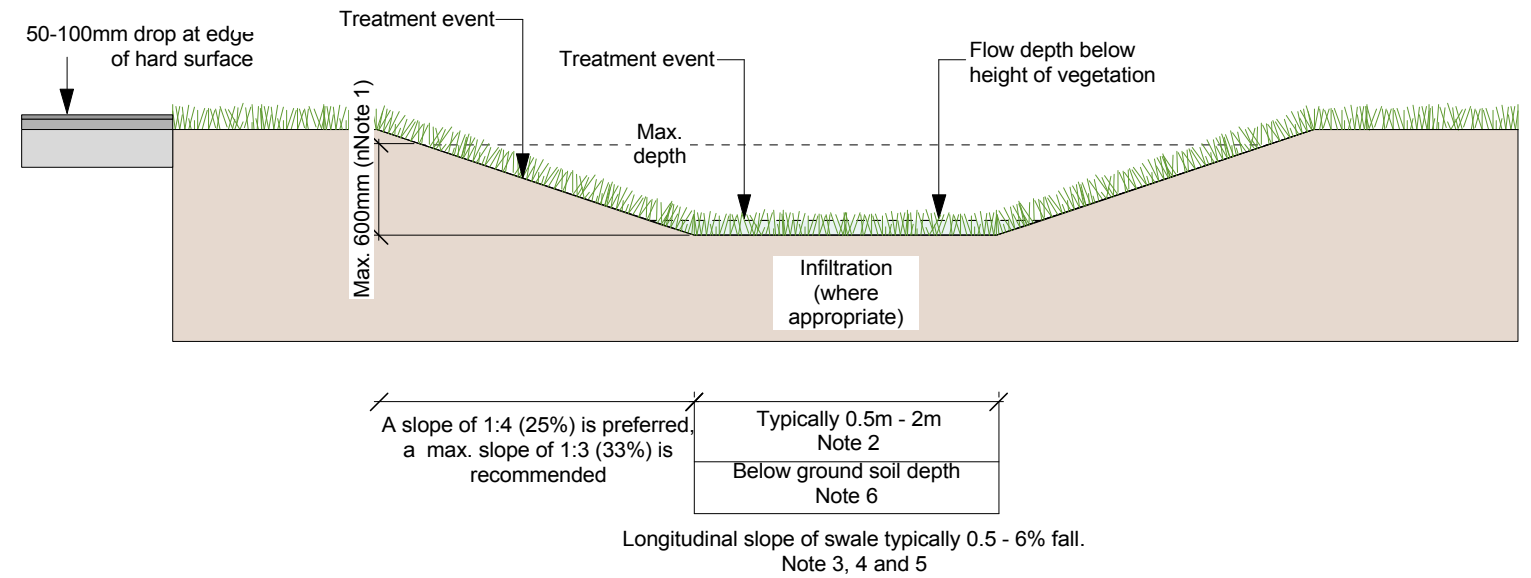
**W3**



**W4A: Typical dry / enhanced swale Scale 1:50**

**Notes**

1. Ma. depth can be increased where it is deemed acceptable by a Health and Safety assessment.
2. Swale bottoms may be narrower or wider, subject to suitable assessment.
3. Check dams should be incorporated on longitudinal slopes greater than 3% (which may increase up to 10%)
4. Permanent reinforcement matting to be incorporated on longitudinal slopes greater than 6%
5. Underdrains are required for conveyance swales with a slope less than 1.5% - alternatively wet swales may be more suitable
6. The maximum likely groundwater level should always be at least 1m below the lowest level of the swale where protection of groundwater is deemed sensitive and/or vulnerable.



**W4B: Typical conveyance / attenuation dry swale Scale 1:50**

**Notes**

1. Maximum depth can be increased where it is deemed acceptable by a Health and Safety assessment; ie no barriers are required
2. Swale bottoms may be narrower or wider, subject to suitable assessment.
3. Check dams should be incorporated on longitudinal slopes greater than 3% (which may increase up to 10%)
4. Permanent reinforcement matting to be incorporated on longitudinal slopes greater than 6%
5. Underdrains are required for conveyance swales with a slope less than 1.5% - alternatively wet swales may be more suitable
6. The maximum likely groundwater level should always be at least 1m below the lowest level of the swale where protection of groundwater is deemed sensitive and/or vulnerable.

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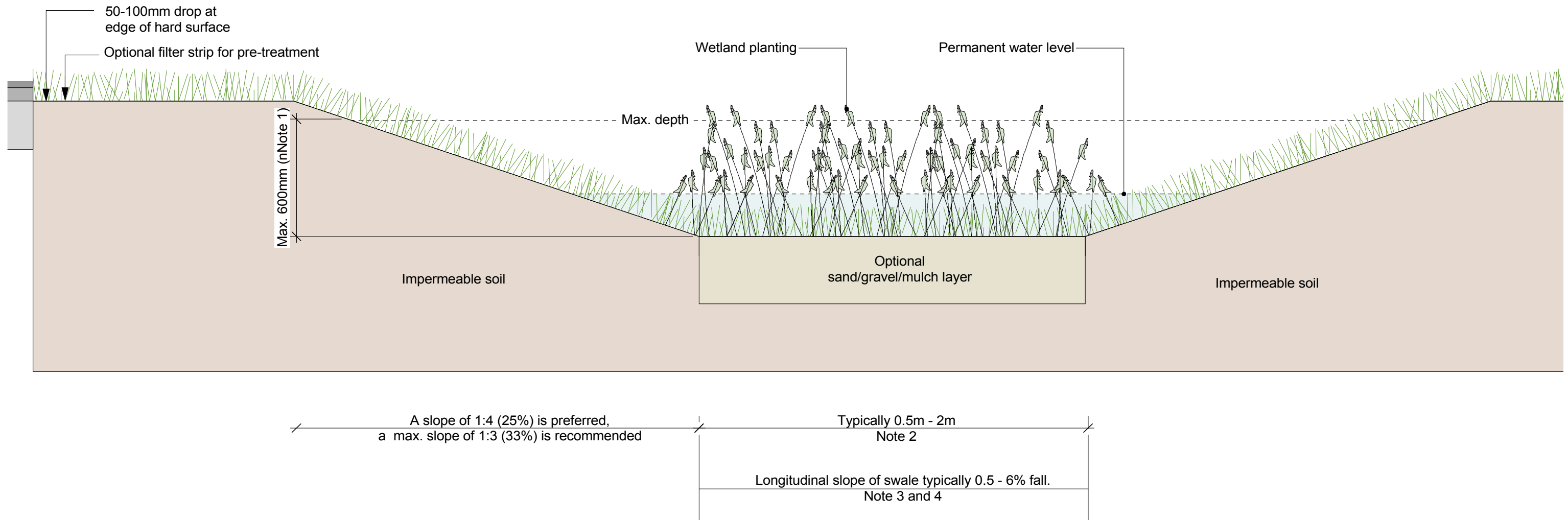


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**STANDARD CONSTRUCTION DETAILS  
for Open Green Spaces  
TYPICAL DRY SWALE**

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**W5: Typical wet swale**      Scale 1:50

**Notes**

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2. Swale bottoms may be narrower or wider, subject to suitable assessment.
3. Check dams should be incorporated on longitudinal slopes greater than 3% (which may increase up to 10%)
4. Permanent reinforcement matting to be incorporated on longitudinal slopes greater than 6%

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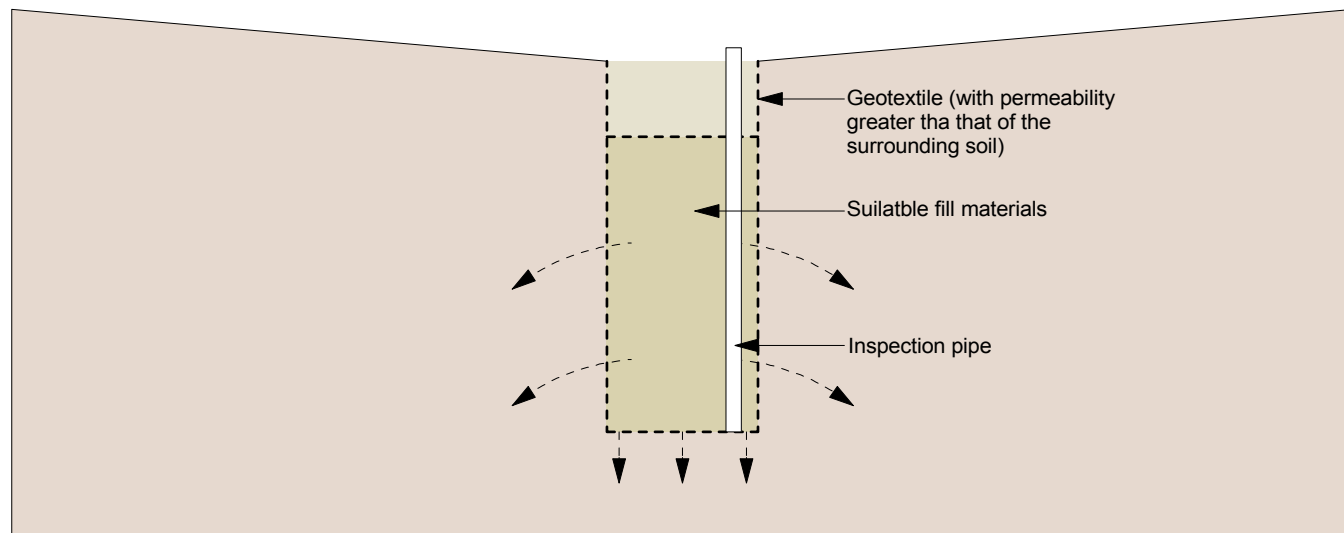
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**STANDARD CONSTRUCTION DETAILS**  
**for Open Green Spaces**  
**TYPICAL WET SWALE**

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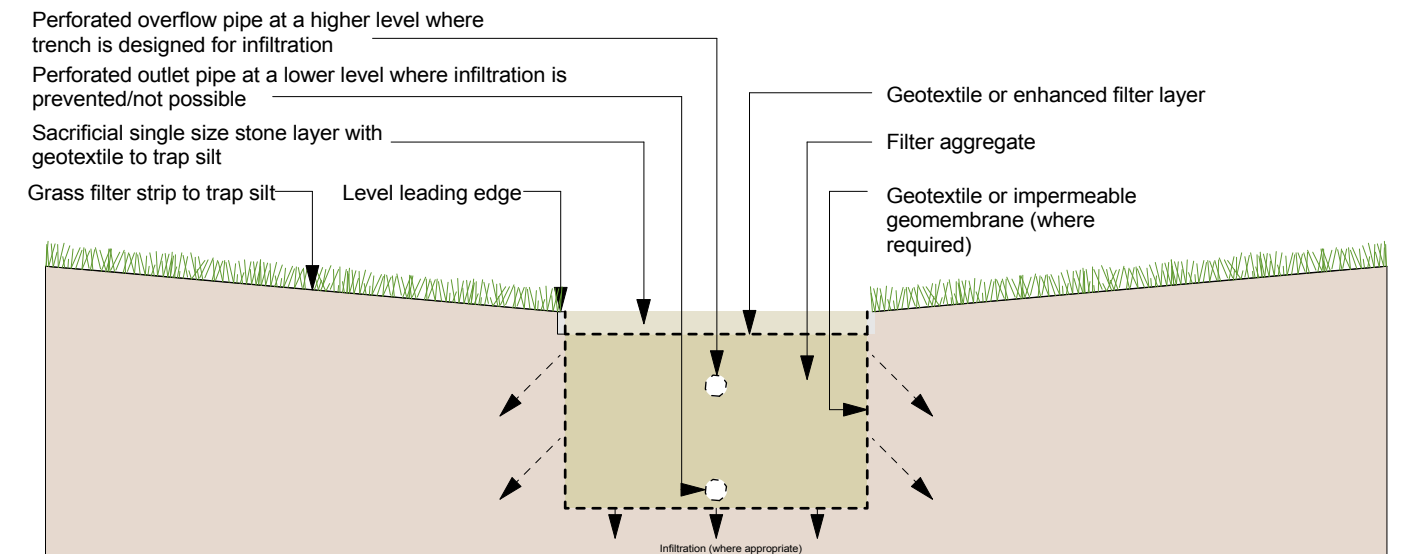
**W5**



**W6A:** Typical infiltration trench / linear soakaway Scale 1:50

**NOTES:**

1. Suitable fill materials: Type B filter material, 10mm pea gravel, 4 - 40mm aggregate in accordance with BS7533.13. Fill material to have a porosity to suit design assumptions.
2. For infiltration ensure geotextile has greater permeability than the surrounding soil. For filter drains use impermeable membrane where required.



**W6B:** Typical filter / french drain Scale 1:50

**Notes**

1. For infiltration ensure geotextile has greater permeability than the surrounding soil.
2. For filter drains use impermeable membrane where required.

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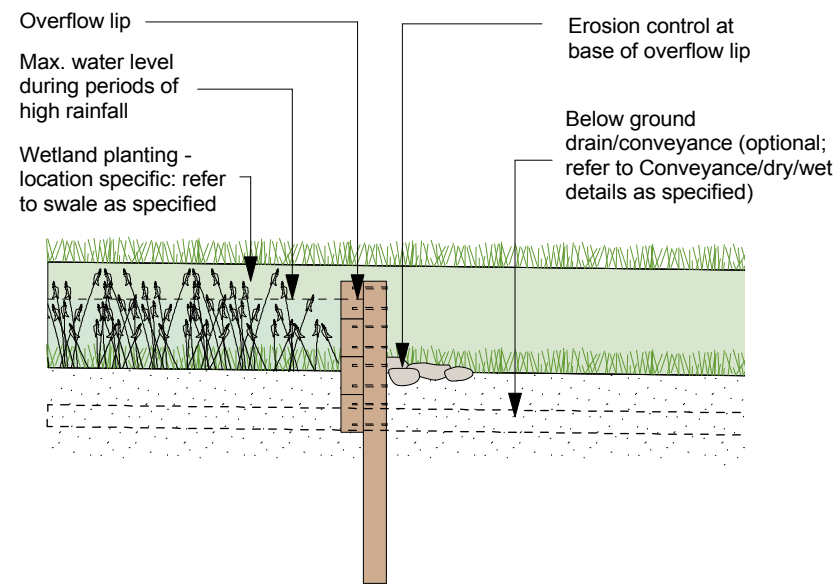
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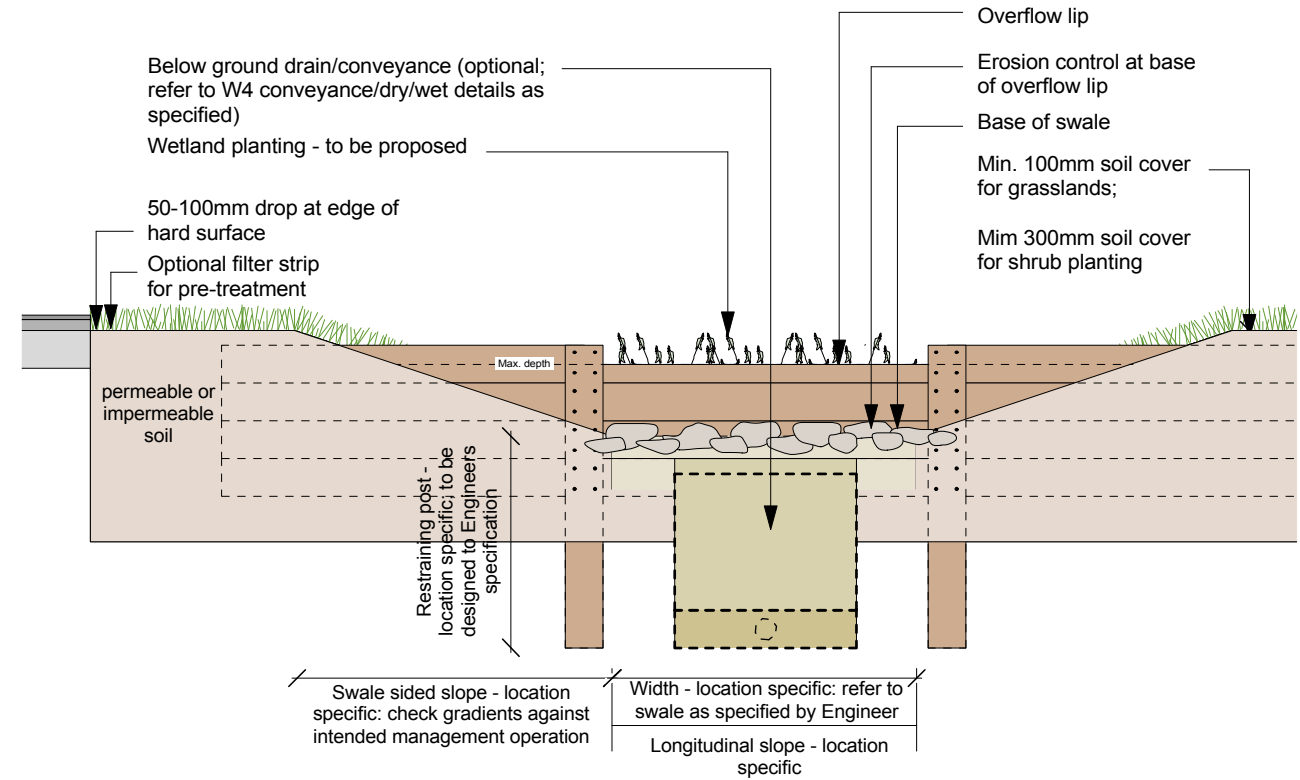
**STANDARD CONSTRUCTION DETAILS  
for Open Green Spaces  
TYPICAL FILTER AND INFILTRATION DRAINS**

**NOTES**

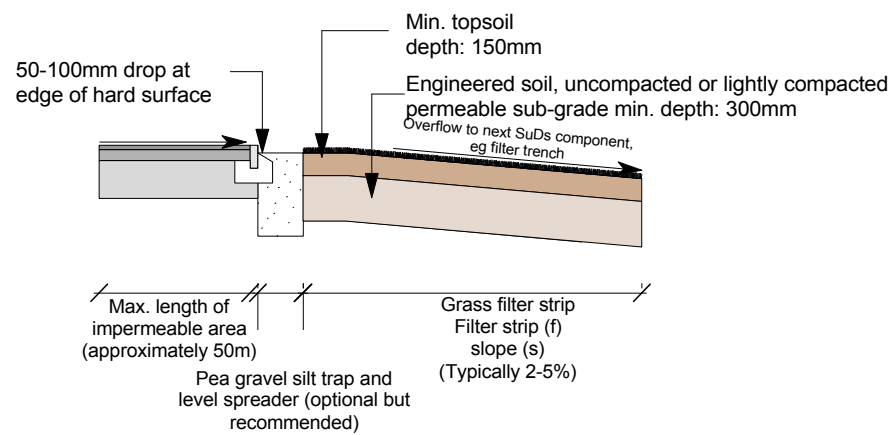
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W7B: Check dam: Side section elevation Scale 1:50



W7A: Check dam: Front section elevation Scale 1:50



W7C: Filter strip schematic Scale 1:50

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