

	Significant trees to be retained (approximate position)
	Woodland/shrubs to be retained (approximate extent)
	Significant trees to be removed (approximate position)
	Proposed standard native tree planting (Phase 2)
	Proposed large feathered native tree planting (Phase 2)
	Proposed small feathered native tree planting (Phase 2)
	Trees proposed as part of earlier projects
	Proposed native tree and shrub mass planting (Phase 2)
	Native tree and shrub mass planting proposed as part of earlier application
	Phase 3 area
	Proposed planting: phase 3
	Proposed fencing
	Proposed gabion wall with stone fill
	Proposed topsoil bund
	Building (proposed and existing)
	Paths, roads, parking etc.
	Boulders
	Hibernacula/log piles
	Swale
	Infiltration strip/filter drain
	Foul drainage
	Surface water
	Red line boundary (approximate)

NOTE: Details of drainage are a guide only. For precise details, refer to engineer's drawings.



SITE CLEARANCE

Woods and scrub areas scheduled for development to be cleared as follows:

1. Cut all vegetation to ground. Small branches, twigs and leaves to be removed and shredded for use as mulch. Larger branches to be removed and used for log piles and hibernacula.
2. Within woodland, remove top organic-rich topsoil layer (topsoil A) to a depth of 200mm below existing surface. Remove to store or re-use immediately as directed below.
3. Remove topsoil (topsoil A) from 100+ to 400mm below existing surface (or to formation level if shallower). Remove to store or re-use immediately as directed below.
4. Within scrub area, remove topsoil (topsoil A) from surface to <400mm below existing surface (or to formation level if shallower). Remove to store or re-use immediately as directed below.
5. Remove scrub to formation level and remove to store or re-use immediately.

With the exception of areas beneath the trees of retained trees, all planting beds (whether those to be planted with transplants) to be ripped at 1m centres to 450mm to break up compacted soils and to provide a loose, friable growing medium. The depth of the rip should be 100mm greater than the depth of the topsoil to be spread across all beds to the required depth. Finished, settled beds to be at or above level of adjacent surfaces.

All stocks to be supplied with a minimum of 100mm of Merthyr Tydfil. Stock available from Tythos Trees (www.tythostrees.co.uk) or Gwynevere Nurseries (gwynevere-nurseries.co.uk).

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Except where it contradicts this specification, all trees and shrubs to conform to BS 3936.

Planting to take place in the autumn following completion of construction within each discrete area. All supplies to be planted between the start of November and the end of December, subject to seasonal weather conditions.

Minimum 1 week prior to planting of transplants, all vegetation within beds to be killed with flame gun directed at the base of each plant.

Minimum 1 week prior to planting of feathered trees, a 1m diameter circle of ground is to be cleared of all vegetation with a flame gun as above in the proposed location of each tree where there is no concrete within a planting bed.

If planting takes place beyond the bare root planting season, all plants should be supplied and planted as container grown stock.

All transplants to be pit planted. All feathered trees to be pit planted in a pit of minimum size 450mm square, 300mm deep. All standard trees to be pit planted in a pit of minimum size 450mm square, 300mm deep.

Immediately after planting beds, before watering all beds to be forked over by hand to relieve surface compaction.

After watering, all plants to be pit planted immediately after forking to ensure settling of soil around roots.

After watering, all planting beds to be covered with 100mm settled depth of topsoil 0 (the greyish-ric yellow clay striped from the top 200mm). Do not compact or fork in.

- The following notes refer only to trees and shrubs shown mass planted in beds (within green lines on the plan) and not shown individually. Other tree species (shown individually by crosses within circles on the plan) to be planted as per **TREES** section below.
- Holly to be grown in single species groups of 3-10. Other shrub species (hazel, hawthorn, blackthorn) to be planted in single species groups of 10-25 where numbers in bed allow. Where numbers in bed do not allow planting in groups of this size, plants in groups of 3-10.
- Tree species to be planted in single species groups of 5-15 where numbers in bed allow. Where numbers in bed do not allow planting in groups of this size, plants in groups of 3-5.

The following notes refer only to trees shown on the plan by a cross within a circle. Other tree species to be planted as per **TRANSPLANTS** section above.

- All trees to be planted as shown on the plan, and as shown on the plan prior to the planting.
- All feathered trees to be planted with single tree (1200mm long, 700mm above ground) stake. Stake to be pressure-treated softwood minimum 50mm cross section and driven into ground at an angle of $<45^\circ$ to cross tree stem at <400 mm above GL. Stem to be secured to stake with light-duty rubber tie the 6 spacer. Stake to be angled in line with prevailing wind.
- All standard trees to be planted with two tree (1350mm long, 600mm above ground) stakes with crossbar, tree to be 1/4 the tree. Stakes to be Robinia or pressure treated softwood min 75mm diameter installed before tree is planted.
- Minimum 100mm (100mm) of mulch (composted woodchips or composted shredded twigs/branches) to be applied after planting around all trees in grass.
- Wood from basal parts of trees infected with honey fungus, Phytophthora root rot, or parts of trees infected with stem diseases such as verticillium wilt or coral spot should not be used as mulch.

Surface of swales to be seeded upon completion of construction with Emorsgate EM8 and Emorsgate EP1 at 4g/sqm mixed at a ratio of 2:1 as per ecologist's recommendations. Preparation and sowing to be as per supplier's instructions except that no herbicide is to be used at any stage.

Disturbed ground and bare soil immediately adjacent to infiltration strips and filter drains to be seeded upon completion of construction with Emorsgate EM8 at 4g/sqm as per ecologist's recommendations. Preparation and sowing to be as per supplier's instructions except that no herbicide is to be used at any stage.

All other seeding to be as per notes for Disturbed Ground below.

- It is proposed that soft landscape areas disturbed during the construction process, that are not scheduled for mass planting with trees and shrubs, should be seeded at 5g/sqm with BS8M Woodland and Heavy Shade Wildflower Seed Mix (or Boston Seeds).
- Such areas left without topsoil after works, should be spread with min 150mm of topsoil Q (ie the organic-rich layer stripped from the top 200mm) from the site store before seeding.
- Topsoil spreading should only take place when topsoil is neither dry and dusty nor so moist that the structure is likely to be damaged by machine passage or handling.
- Unless otherwise stated, finished levels of topsoil after settlement to be level with adjoining paving, kerbs, manholes etc. It should be feathered into adjacent undisturbed areas.

In order to limit damage to its structure, topsoil is to be subjected to a minimum of handling and cultivation. It is to be left in a condition upon placing that will not leave it vulnerable to erosion. The following are the minimum standards for the handling and cultivation of topsoil:

Disturbed areas outside of existing woodland: topsoil to be levelled to break up clods of earth, remove ridges and bumps and fill hollows. The topsoil should be left with a fairly rough surface with lumps >200mm in size.

Disturbed areas within existing woodland: topsoil to be roughly levelled to break up large clods of earth (>200mm), remove large ridges (>200mm high) and large bumps (>200mm high) and fill deep hollows (>200mm deep). The topsoil should be left with a rough surface with lumps >200mm in size. Do not carry out levelling that will break tree roots or cover them with an overburden of more than 200mm.

Topsoil within existing woodland should not be used on this site for any operation. Use of such machinery would destroy topsoil structure and would produce a capped layer which would impede drainage and set back germination and subsequent establishment. Such treatment would also be likely to lead to sheathward during heavy rain. All cultivation works to be carried out with harrows, drag buckets or by hand as appropriate. Levelling with dragger buckets should be carried out by drawing toothed buckets across surface of topsoil in conjunction with back of bucket or by tracking over surface. Machinery should not be driven beneath canopies of trees except along hard surfaces (e.g. drives, roads and parking).

STANDARD TREES (large cross within large circle)				
Symb.	Species	English name	Size	No
AgXX	<i>Alnus glutinosa</i>	Common Alder	18-20 X Heavy standard	0

LARGE FEATHERED TREES (large cross within small circle)				
Symb.	Species	English name	Size	
Agx	<i>Alnus glutinosa</i>	Common Alder	175-200 feathered	21
Qrx	<i>Quercus robur</i>	Pedunculace oak	175-200 feathered	37
Saux	<i>Sorbus aucuparia</i>	Rowan	175-200 feathered	32

Symbol	Species	English name	Size	
Ag	<i>Alnus glutinosa</i>	Common Alder	125-150 feathered	98
Bpe	<i>Betula pendula</i>	Silver Birch	125-150 feathered	100
Bpu	<i>Betula pubescens</i>	Hairy Birch	125-150 feathered	76
Qp	<i>Quercus petraea</i>	Sessile oak	125-150 feathered	164
Qr	<i>Quercus robur</i>	Pedunculate oak	125-150 feathered	99
Sau	<i>Sorbus aucuparia</i>	Rowan	125-150 feathered	87

Symb.	Species	English name	Size	
Ag	<i>Alnus glutinosa</i>	Common Alder	40-60 1m or 1-1	94
Bpe	<i>Betula pendula</i>	Hazel Birch	40-60 1m or 1-1	82
Bsp	<i>Betula pubescens</i>	European Birch	40-60 1m or 1-1	82
Cv	<i>Corylus avellana</i>	Almond	40-60 1m or 1-1	383
Cmo	<i>Crataegus monogyna</i>	Wild Hawthorn	40-60 1m or 1-1	179
Cv	<i>Clematis vitalba</i>	Old Man's Beard	40-60 3 litre pot	3
Id	<i>Hedera helix</i>	Ivy	40-60 3 litre pot	4
La	<i>Ilex aquifolium</i>	Holly	P9	257
Lp	<i>Lonicera periclymenum</i>	Blackthorn	40-60 3 litre pot	3
Pu	<i>Prunus spinosa</i>	Blackthorn	40-60 1m or 1-1	196
Q	<i>Quercus petraea</i>	Sessile oak	40-60 1m or 1-1	153
Qp	<i>Quercus robur</i>	Pedunculate oak	40-60 1m or 1-1	85
Gr	<i>Salix repens</i>	Willow	40-60 1m or 1-1	153

Mass planting beds total area = 2,109 sqm.

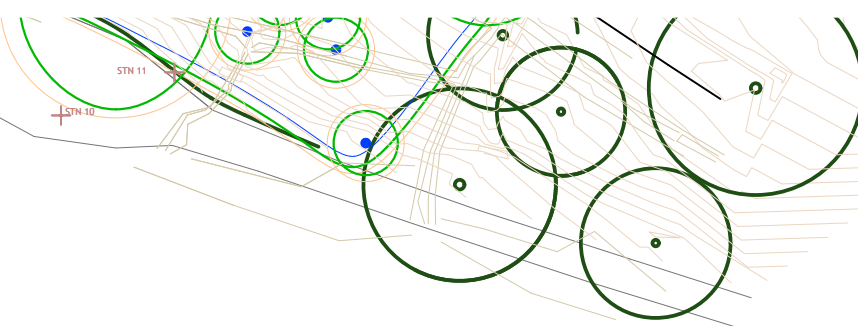
A total of 12 habitat piles are shown across the area of development within woodland and more open areas. Around half of the habitat piles should be hibernacula and the other half, log piles. They should be constructed as follows:

1. In areas beneath tree canopies and in waterlogged ground, hibernacula to be constructed on surface. Elsewhere, in open areas, where the ground is not waterlogged, remove and set aside turfs and excavate a hole c.500mm deep (or until the bedrock whichever is the shallower) and c.2m long and 1.25m wide.

4. Logs (and stones if used) to be completely covered with soil from the excavation. 2 or 3 openings should be created in each hibernaculum at or near ground level for reptiles, amphibians and invertebrates gain access to spaces between logs in interior. Rocks should be used to form permanent entrances.
5. Cover hibernaculum with turves (if available) retaining openings.
6. Hibernacula should be stable, no higher than 1.2m and sited away from access and parking as shown on the plan.

1. Large branches (>24mm diameter) and logs from clearance and maintenance works should be cut into lengths no less than 2.5m in length.
2. Branches and logs to be piled (laid approximately horizontally) to a height of c.900mm above ground level.
3. Log piles should be stable, no higher than 1.2m high and sited away from access and parking in a variety of situations: shade, partial shade, sun.
4. Around half of the total number of log piles should be lightly covered in topsoil 0. The other half of the piles should remain uncovered except for a partial covering of leaves

Should there be an insufficient supply of timber at the time of construction, hibernacula and log piles should be constructed as timber becomes available from ongoing landscape maintenance. Branches smaller than 24mm diameter should be piled as described in the Landscape Maintenance Programme.



Scale 1:500 printed at A0

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Project title:

Bike Parks Wales, Abercarnal

Drawing title:

Detailed Landscape Proposals Masterplan

Client:

Bike Parks Wales

Date:

1st June 2019

Revisions:

- Rev-A: 1st Jun 19. Amendment of proposed works to main parking area's associated landscape.
- Rev-B: 01st Oct 19. Amendments to the changes to materials, increase in size of arbor.
- Rev-C: 11th Oct 19. Amendments to the changes to landscaping to materialize.
- Rev-D: 12th Nov 2019. Adjustment of tree positions and associated products.
- Rev-E: 24th Nov 2020. Planning notes as advised in Part 3 and Part 4.
- Rev-F: 12th Nov 2020. Swale infiltration strip/other area planting details added.
- Rev-G: 19th April 2021. Amendment of bike wash facility and steps from terrace to match as built.
- Rev-H: 19th Nov 2021. Amendment of layout to include changes to carparking pods and bollards etc.
- Rev-I: 26th April 2022. Amendment of layout in the arbor changes to carparking pods and bollards etc.
- Rev-J: 16th Oct 2023. Minor amendments to add and omit bins - bike lockers.
- Rev-K: 16th Oct 2023. Changes to shed storage space and minor amenity amendments.
- Rev-L: 27th March 2024. Changes to shower blocks and bike storage lockers.
- Rev-M: 16th April 2024. Additional planting around chairs.

Drawing No:

19/461/09 M

DETAILED LANDSCAPE PROPOSALS MASTERPLAN

