

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

NOTES ON THE DETAILED LANDSCAPE PROPOSALS MASTERPLAN

This masterplan should be read in conjunction with the Landscape Maintenance Plan and Landscape Maintenance Programme



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Rev H: 18th Dec 2021. Amendment of layout in line with changes to camping pods and toilets at

Drawing number:
19/461/09

SITE CLEARANCE

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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 0**) to a depth of 200mm below existing surface. Remove to store or re-use immediately as directed below.
3. Within woodland, remove topsoil (**topsoil A**) from 200-c.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 c.400mm below existing surface (or to formation level if shallower). Remove to store or re-use immediately as directed below.
5. Remove subsoil to formation level and remove to store or re-use immediately.

GENERAL PREPARATION AND PLANTING

- With the exception of areas beneath the canes of retained trees, all planting beds (those to be planted with transplants) to be ripped at 1m centres to 450mm to break up compaction before any topsoil is placed.
- All areas to be planted with transplants to be covered with 100mm of topsoil across all beds. A minimum of one month before planting, topsoil (A above) from site stock to be spread across all beds to the required depth. Finished, settled level to be at or above level of adjacent surfaces.
- All trees grown in the frost free area to be sourced from provenance seed gathered within 100miles of Herthy Tydfil. Stock available from Tyffrys Trees (www.tyffrystrees.co.uk) or Wyevale Nurseries (enquiries@weyvalenurseries.co.uk).
- All stock to be supplied with roots wrapped in damp straw inside a black polythene bag. All stock supplied or planted outside planting season (Nov-March) to be container grown.
- All trees to be containerised and supplied with 100mm of topsoil. All trees and shrubs to be supplied with 100mm of topsoil to be spread across all beds to the required depth. Planting to take place in the autumn following completion of construction within each discrete area. All plants to be planted between the start of November and the end of December subject to seasonal variations.
- 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 has been in the proposed location of each tree
- 250mm square 100mm deep planting bed.
- If planting takes place beyond the bare-root planting season, all plants should be supplied and planted at 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, 100mm deep.
- Immediately after planting, before watering all beds to be forked over to help relieve surface compaction.
- All areas to be planted with transplants to be covered with 100mm of topsoil (A above) from site stock to be spread across all beds to the required depth. Finished, settled level to be at or above level of adjacent surfaces.
- After watering, all planting beds to be covered with 100mm settled depth of topsoil (D) the organic-rich layer stripped from the top 200mm. Do not compact or fork in.

TRANSPLANTS

- The following notes refer only to trees an 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.

TREES

- 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.
- Trees are to be planted in positions as shown on plan prior to planting of transplants.
1. All trees are to be planted to the north side of the 1200mm long 600mm wide (1200mm long) stake. Stake to be pressure treated softwood minimum 50mm cross section and driven into ground at an angle of c.45° to cross tree stem at c.400mm above GL. Stem to be secured to stake with light-duty rubber tyre tie 6 spacer. Stake to be angled in line with prevailing wind.
2. All standard trees to be planted with 2 tree (1350mm long, 600mm above ground) stakes with crossbar, tree tie 6 spacer. Stake to be Robinia or pressure treated softwood min 75mm diameter installed before tree is planted.
3. All trees to be 100mm deep (100mm diameter) hole (compacted woodchip) or composted shredded twigs/infects to be applied after planting around all trees in grass.
4. 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.

PROPOSED SEEDING ALONG SWALES ETC.

SWALES

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.

INFILTRATION STRIPS/FILTER DRAINS

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.

DISTURBED GROUND

GENERAL

- 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 BSBM Woodland and Heavy Shade Wildflower Seed Mix (by Boston Seeds).
- Such areas left without topsoil after works, should be spread with min 150mm of topsoil O (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.

PREPARATION

- In order to limit damage to tree structure, topsoil is to be subject to a minimum of handling and cultivation. It is to be left in a condition upon placing that will not leave it vulnerable to compaction and sheathweed during heavy rain.
- After the trees are installed, the topsoil should be leveled to maintain a break up clods of earth, remove rocks and fill low areas. The topsoil should be left with a fairly disturbed surface with lumps <20cm in size.
- Disturbed areas within existing woodland: topsoil to be roughly leveled with large clods of earth (<200mm), remove rocks >100mm high and large bumps (>100mm) high and the areas outside should be left with a rough surface with lumps <200mm in size. Do not carry out leveling work on areas that are tree trunks or cover them with an overabundance of more than 20mm.
- As the topsoil is clayey, retainers and other power cultivators shall not be used on this site for any operation. Use of such machinery would destroy topsoil structure and the resulting product is capped soil which would impede drainage and set back germination and subsequent establishment. Such treatment would also be likely to lead to sheathweed during heavy rains. All cultivation works to be carried out with harrows, drag buckets or by hand as appropriate. Leveling with drag buckets should be carried out by drawing toothed harrows or harrows in conjunction with compaction with back of bucket or by tracking over surface. Machinery should not be driven beneath canopies of trees except along hard surfacing (see drives, roads and parking).

PLANTING: SCHEDULE (phase 2 only).

STANDARD TREES (large cross within large circle)					
Symb.	Species	English name	Size		
AgXx	Alnus glutinosa	Common Alder	18-20 x Heavy standard	No 0	
LARGE LEATHERED TREES (large cross within small circle)					
Symb.	Species	English name	Size		
Agx	Alnus glutinosa	Common Alder	175-200 feathered	21	
Ag	Quercus robur	Pedunculate oak	175-200 feathered	32	
Saux	Sorbus aucuparia	Rowan	175-200 feathered	32	
SMALL LEATHERED TREES (small cross within small circle)					
Symb.	Species	English name	Size		
Ag	Alnus glutinosa	Common Alder	125-150 feathered	98	
Bpe	Betula pendula	Silver Birch	125-150 feathered	100	
Ag	Quercus petraea	Sessile oak	125-150 feathered	164	
Qr	Quercus robur	Pedunculate oak	125-150 feathered	99	
Qr	Quercus petraea	Rowan	125-150 feathered	86	
TRANSPLANTS AND SHRUBS (within mass planting beds) total No. 3,950					
Symb.	Species	English name	Size		
Ag	Alnus glutinosa	Common Alder	40-60 turl 1 or 1	86	
Ag	Alnus glutinosa	Common Alder	40-60 turl 1 or 1	82	
Bpu	Betula pubescens	Heavy Birch	40-60 turl 1 or 1	84	
Ca	Corylus avellana	Hazel	40-60 turl 1 or 1	383	
Cv	Clematis vitalba	Old Man's Beard	40-60 3 litre pot	3	
Qr	Quercus petraea	Pedunculate oak	40-60 3 litre pot	153	
Is	Ilex aquifolium	Holly	P9	257	
Lp	Lonicera periclymenum	Hearty honeysuckle	40-60 3 litre pot	8	
Qr	Quercus petraea	Sessile oak	40-60 turl 1 or 1	153	
Qr	Quercus robur	Pedunculate oak	40-60 turl 1 or 1	185	
Qr	Quercus petraea	Pedunculate oak	40-60 turl 1 or 1	45	

PLANTING: SCHEDULE (phase 3 only).

STANDARD TREES (large cross within large circle)					
Symb.	Species	English name	Size	No	
AgXk	<i>Alnus glutinosa</i>	Common Alder	18-20 X heavy standard	24	
LARGE FEATHERED TREES (large cross within small circle)					
Symb.	Species	English name	Size	No	
Ag	<i>Alnus glutinosa</i>	Common Alder	175-200 feathered	9	
Qr	<i>Quercus robur</i>	Pedunculate oak	175-200 feathered	22	
Sau	<i>Sorbus aucuparia</i>	Rowan	175-200 feathered	17	
SMALL FEATHERED TREES (small cross within small circle)					
Symb.	Species	English name	Size	No	
Ag	<i>Alnus glutinosa</i>	Common Alder	125-150 feathered	38	
Bp	<i>Betula pendula</i>	Silver Birch	125-150 feathered	50	
Ag	<i>Alnus glutinosa</i>	Common Alder	125-150 feathered	38	
Qr	<i>Quercus petraea</i>	Sessile oak	125-150 feathered	106	
Qr	<i>Quercus robur</i>	Pedunculate oak	125-150 feathered	119	
Sau	<i>Sorbus aucuparia</i>	Rowan	125-150 feathered	45	
TRANSPLANTS (small plant planting beds) total No 9,50					
Symb.	Species	English name	Size	No	
Ag	<i>Alnus glutinosa</i>	Common Alder	40-60 ft or 1-181	228	
Bp	<i>Betula pendula</i>	Silver Birch	40-60 ft or 1-181	169	
Bp	<i>Betula pubescens</i>	Hairy Birch	40-60 ft or 1-181	184	
Ag	<i>Alnus glutinosa</i>	Common Alder	40-60 ft or 1-181	233	
Cr	<i>Crategeus monogyna</i>	Thornhorn	40-60 ft or 1-181	283	
Am	<i>Ilex aquifolium</i>	Holly	40-60 ft or 1-181	131	
Qr	<i>Quercus robur</i>	Pedunculate oak	40-60 ft or 1-181	253	
Qr	<i>Quercus petraea</i>	Sessile oak	40-60 ft or 1-181	201	
Qr	<i>Quercus robur</i>	Pedunculate oak	40-60 ft or 1-181	203	
Sau	<i>Sorbus aucuparia</i>	Rowan	40-60 ft or 1-181	138	

Mass planting beds total area = 2,817 sqm

Mass planting beds total area = 2,011 sqm.

PROPOSED HABITAT PILES

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:

CONSTRUCTION OF HIBERNACULA

- In areas beneath tree canopies and in waterlogged ground, hiernaculla to be constructed on surface. Elsewhere, in open areas, where the ground is not waterlogged, remove and set aside turfs and excavate hole c.500mm deep (or until the bedrock whichever is the shallower) and c.2m long and 1.25m wide. Large branches (>24mm diameter) and logs from clearance and maintenance works should be cut into lengths no less than 1m in length. Branches and logs to be piled (if appropriate) horizontally within hole to a height of c.500mm above ground level. Large rocks (200-400mm) may also be incorporated. Logs and stumps if used to be completely covered with soil from the excavation. 2 or 3 openings should be created in each hiernaculla at or near ground level for reptiles, amphibians and invertebrates to access to spaces between logs in interior. Rocks should be used to form permanent entrances. Cover hiernaculla with turves (if available) retaining openings. Hiernaculla should be stable, no higher than 1.2m and sited away from access and parking as shown on the plan.

CONSTRUCTION OF LOG PILES

- Large branches (>24mm diameter) and logs from clearance and maintenance works should be cut into lengths no less than 2.5m in length. Branches and logs to be piled (laid approximately horizontally) to a height of c.900mm above ground level.
- 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. Around half 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.

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