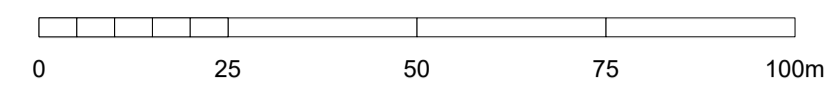


NOTES

This drawing is the property of FPCR Environment and Design Ltd and is issued on the condition it is not reproduced, retained or disclosed to any unauthorised person, either wholly or in part without written consent of FPCR Environment and Design Ltd.

Aerial imagery © 2015 Bluesky, DigitalGlobe, Getmapping plc, Infoterra Ltd and BlueskyMap data © 2015 Google



- Site Boundary
- Land in Same Ownership
- Existing Trees / Woodland / Hedgerows
Refer to ECUS dwg 21251 Coppice Lane Tree Plans
- Existing Trees / Woodland / Hedgerows removed
Refer to ECUS dwg 21251 Coppice Lane Tree Plans
- Root Protection Areas (RPA)
Refer to ECUS dwg 21251 Coppice Lane Tree Plans
- Proposed Native Scrub Planting
- Proposed Native Woodland Planting
- Proposed Native Standard Tree Planting (Medium/Large)
- Proposed Native Standard Tree Planting (Small)
- Proposed Native Riparian Tree / Native Shrub Planting
- Open Water
Areas of open water and land surrounding the pond will be left to colonise naturally from the adjacent Montgomery Canal.
- Existing Meadow Grassland
Where disturbed by construction, to be resown with Emorgate EM2 Standard General Purpose Wildflower Mix at 4g/m² or similar and approved.
- Proposed Meadow Grassland
Emorgate EM8 Meadow Grass for Wet Soils at 4g/m² or similar and approved
- Proposed Bat Box
To be sited at appropriate locations and agreed with Project Ecologist
- Proposed Bird Box
To be sited at appropriate locations and agreed with Project Ecologist
- Proposed Hibernacula
To be sited at appropriate locations and agreed with Project Ecologist
- Existing swamp retained
Refer to Phase 1 survey for details and extents
- Proposed 1.5m wide timber gate
To be installed in existing fence, which will be made good.
- Proposed CRT only parking (Indicative)
- Proposed CRT only access track (Indicative)
- Existing Public Right of Way (to be diverted)
- Possible Public Right of Way
To be maintained as informal mown route
- Existing 11kv Overhead Lines (Indicative)
Refer to Arcadis Drawings
- Proposed Landscape Bunds (Indicative)
Refer to Arcadis Drawings
- Existing and Proposed Water Main and Sub Main
Refer to Arcadis Drawings



NOTES

1. All drawing dimensions to be checked and verified prior to construction.
2. Drawings are design intent and for Planning purposes only.
3. All services and drainage easements are to be checked and verified by the project engineers.
4. The landscape contractors shall make themselves aware of all service locations, health and safety and risk assessments prior to commencing planting operations.
5. All planting work to be carried out in accordance with BS4428 1989 'Code of Practice for General Landscape Operations'.
6. All steps, structures, paving and fencing are by others unless otherwise noted.
7. This drawing is the property of FPCR Environment and Design Ltd and issued on the condition it is not reproduced, retained or disclosed to any unauthorised person, either wholly or in part without the written consent of FPCR Environment and Design Ltd

OUTLINE LANDSCAPE SPECIFICATION

General

Identification of topsoil and subsoil resources on site will be required to inform the detailed design of planting beds, including the appropriate depth of soil horizons and the requirement for amelioration of the growing medium, prior to planting. If modifications to the soil are necessary, soil ameliorants will be used sparingly. Site won topsoil that has been stored in temporary stock piles will be re-tested prior to use. Where site won topsoil is not available, imported topsoil will be used. Topsoil for seeded areas shall be imported from an approved site, be in accordance with BS3882:2007 and be classified as Low Fertility. All plant material to be in accordance with BS 3906 Part 1 (1992), 'Nursery Stock Specification for Trees and Shrubs', BS3936 Part 10: 1990 'Nursery Stock Specification for Ground-cover Plants' and 'Handling and Establishing Landscape Plants' HTA 1985, revised edition March 2002. Any stock planted outside the recognised planting season to be containerised. Containerised plant stock to have fully developed root system within the specified pot size. Where growing-on in the nursery is necessary all plant material is to be re-potted to the next approved pot size, re-spaced to allow for 15-20% growth per growing season, and maintained to healthy vigorous growth irrespective of weather conditions. All planting areas to be weed free prior to planting. Allow for an application of an approved translocated systemic herbicide in line with 1987 Control of Pesticide Regulations and 2003 COSHH.

Existing Tree & Hedgerows

All trees and hedges which are shown for retention should be inspected for safety by a qualified member of the Arboricultural Association and subject to BS 5837 2012 'Trees in Relation to Construction'. They should be protected during all phases of construction with temporary fencing in accordance with BS 5837 2012 and must comply with all applicable planning conditions. Any tree surgery required shall also be in accordance with BS 3998 2010. The landscape contractor shall make the Contract Administrator (CA) aware of any notifiable weeds on site.

Standard Tree Planting

Trees to be planted into prepared tree pits, backfilled with topsoil/soil ameliorants as specified. At the time of planting, the tree pit diameter is to be 500mm greater than the root ball, wide enough to accommodate roots when fully spread. Trees shall have a 1000mm diameter circle around the base of the trunk to be maintained free from grass and spread with 75mm medium grade mulch. Mulch is not to be placed against the stem of the tree. All trees are to be watered-in when planted with a minimum 54L, and then when required within the Maintenance Period to ensure survival. Bareroot trees up to 12-14cm girth are to be single staked - stakes well driven into the ground minimum 300mm into bottom of tree pit, outside of the root ball.

Medium / Large Trees

Species	Name
Acer campestre	Field Maple
Acer pubescens	Downy Birch
Betula pendula	Silver Birch
Prunus avium	Cherry
Tilia cordata	Lime
Quercus robur	Pendunculate Oak
Quercus petraea	Sessile Oak

Small Trees

Species	Name
Malus sylvestris	Crab Apple
Sorbus aria	Whitebeam
Sorbus aucuparia	Mountain Ash
Sorbus terminalis	Wild Service Tree

Riparian Trees / Shrubs

Species	Name
Ailunus glutinosa	Alder
Cornus sanguinea	Dogwood
Frangula alnus	Alder buckthorn
Populus nigra	Black Poplar

Woodland Planting

All trees to be planted in prepared pits of 300x300x300mm for whips. Pits to be backfilled with topsoil/soil ameliorants as above. All plants to be well firmed. All stock to be well watered when planted with a minimum of 4.5L/whip. A weed free space will be maintained around the base of each tree, preferably by the use of mulch mats. All trees to be fitted with proprietary rabbit guards to prevent browsing by mammals. To be planted at 2.0m centres.

%	Species	Name
15	Acer Campestre	Field Maple
10	Betula pubescens	Downy Birch
15	Sambucus nigra	Elder
10	Corylus avellana	Hazel
10	Quercus robur	Pendunculate Oak
20	Crataegus monogyna	Hawthorn
15	Prunus spinosa	Blackthorn
5	Ilex aquifolium	Holly

Replacement Native Hedgerow Planting

Where it is necessary to remove sections of the existing hedgerow, replacement native hedgerow planting would be undertaken around the site boundaries to infill gaps in the existing hedgerows.

Planting trenches to be thoroughly forked over or rotovated to a minimum depth of 350-400mm, ensuring that the subgrade and topsoil are both free draining. All planting beds are to be 90mm below adjacent grass/hard surfaces. All stock to be well watered when planted with 20L of water per m². Following planting and watering operations, all beds are to be mulched with 50-75mm of mulch (5-75mm particle size, British origin, FSC certified).

Bare root native species hedgerow planting to be planted in a double staggered row (DSR), protected by rabbit proof guards with the base pushed flush to ground level, and held in place with a cane. To be planted at 5 plants per linear m in a double staggered row. The hedgerow mix would comprise the following species:

%	Species	Name
20	Corylus avellana	Hazel
20	Ilex aquifolium	Holly
20	Crataegus monogyna	Hawthorn
20	Prunus spinosa	Blackthorn
10	Sambucus nigra	Elder
10	Rosa canina	Dog Rose

Species Rich and Wet Grassland

In wildflower areas and where the existing grassland has become disturbed through construction operations, the specified mixes in the key will be used. Prior to sowing the soil should be ploughed or rotovated and raked or narrowed to produce a medium fine, firm tilth. Fertiliser will not be applied at any point as this will lead to dominance of nutrient loving species such as broad-leaved grasses, nettles and docks.

In wildflower areas and where the existing grassland has become disturbed through construction operations, the specified mixes in the key will be used. Prior to sowing the soil should be ploughed or rotovated and raked or narrowed to produce a medium fine, firm tilth. Fertiliser will not be applied at any point as this will lead to dominance of nutrient loving species such as broad-leaved grasses, nettles and docks. The seed mix will be sown in accordance with the manufacturers specification to allow space for each species to establish and to produce good ground cover. Seed will be sown in the autumn, winter or spring, selecting a time when the soil is moist and can be worked. Seeding will be sown by hand broadcasting, seed fiddle, spinner, hydra seeding of Cambridge (ribbed) roll will be used for one or two passes to firm and level the surface and create good seed soil contact.

Open Water

Pond to be constructed in varying depths from 250mm to 1500mm. Exact profiling to be developed in consultation with Natural Resources Wales as part of the detailed design and HRA process.

Areas of open water and land surrounding the pond will be allowed to colonise naturally from the adjacent Montgomery Canal.

Landscape Bunds

These are undulating, with scrub planting at the top of bunds and woodland planting at the bottom. See Arcadis drawing for detail re bunds.

GRASSLAND MIXES

Meadow Grassland: Emorgate EM2

%	Species	Name
0.6	Achillea millefolium	Yarrow
3	Centaurea nigra	Common Knapweed
1.5	Daucus carota	Wild Carrot
3	Galium verum	Lady's Bedstraw
1.5	Geranium pratense	Meadow Crane's-bill
1.5	Knaulia arvensis	Field Scabious
3	Leucanthemum vulgare	Oxeye Daisy - (Moon Daisy)
0.2	Lotus corniculatus	Birdsfoot Trefoil
0.5	Plantago lanceolata	Ribwort Plantain
1.5	Poterium sanguisorba	Salad Burnet
0.3	Primula veris	Cowslip
3	Trifolium vulgare	White Clover
0.2	Rhinanthus minor	Yellow Rattle
0.2	Rumex acetosa	Common Sorrel

Grasses

%	Species	Name
8	Agrostis capillaris	Common Bent
28	Cynurus cristatus	Crested Dogstail
24	Festuca rubra	Slender-creeping Red-fescue
4	Phleum bertolonii	Smaller Cat's-tail
16	Poa pratensis	Smooth-stalked Meadow-grass

Wet Grassland: Emorgate EM8

%	Species	Name
0.2	Achillea millefolium	Yarrow
2	Filipendula ulmaria	Meadowweet
1.5	Galium verum	Lady's Bedstraw
0.5	Geum rivale	Water Aveny
0.2	Leucanthemum vulgare	Oxeye Daisy - (Moon Daisy)
1	Lotus corniculatus	Birdsfoot Trefoil
0.4	Lotus pedunculatus	Greater Birdsfoot Trefoil
1	Plantago lanceolata	Ribwort Plantain
0.4	Primula veris	Cowslip
2	Prunella vulgaris	Selfheal
0.5	Pulicaria dysenterica	Common Fleabane
0.46	Ranunculus acris	Meadow Buttercup
1	Rhinanthus minor	Yellow Rattle
1	Rumex acetosa	Common Sorrel
1.5	Sanguisorba officinalis	Great Burnet
1	Silauum silaus	Pepper Saxifrage
1	Taraxacum officinale	Dandelion
0.2	Thalictrum flavum	Common Meadow-rue
1	Vicia cracca	Tufted Vetch

Grasses

%	Species	Name
10	Agrostis capillaris	Common Bent
3	Alopecurus pratensis	Meadow Foxtail (w)
3	Anthoxanthum odoratum	Sweet Vernal-grass (w)
3	Briza media	Quaking Grass (w)
24	Cynurus cristatus	Crested Dogstail
2	Deschampsia cespitosa	Tufted Hair-grass (w)
32	Festuca rubra	Slender-creeping Red-fescue
3	Hordeum secalinum	Meadow Barley (w)

POS	date	description	rc	cep	dm	chk
P05	27/08/2024	CRT amends inc PRWw + removed marginal plants	RC	CEP		
P04	06/06/2024	Amends - CRT review of draft	RC	CEP		

Task	Status	Assigned To
masterplanning	Complete	FPCR Environment and Design Ltd
environmental assessment	Complete	Lockington Hill
landscape design	In Progress	Lockington Hill
ecology	In Progress	Lockington Hill
urban design	In Progress	Lockington Hill
architecture	In Progress	Derby
arboriculture	In Progress	DE74 2RH

fpcr
t: 01508 672722
e: mail@fpcr.co.uk
w: www.fpcr.co.uk

client
Canal and River Trust
project
Wern Reserve

drawing title
Green Infrastructure Plan

scale
1:1000 @ A1
dm
RC / CEP
date created
27.06.24

project number
11775
status
DRAFT
issue
P05

document number
11775-FPCR-XX-XX-DR-L-0001

File: L:\1177001\11775LANDS\Drawings\11775-FPCR-XX-XX-DR-L-0002-P05-GI Plan.vxd