Planting specification

Topsoil
Prior to supply and spreading of topsoil, all subsoil areas are to be ripped (subject to site specific geology) to alleviate compaction and improve aeration in accordance with BS 3882:2015 British standard for Topsoil, Annex A Recommendations for stripping, handling and preparing topsoil.

The topsoil is to comply with the British Standard BS 3882:2015 definition for Multipurpose grade topsoil, and is to be accompanied with a test certificate and horticultural analysis summary for approval by the landscape architect prior to delivery to site.
Provide a minimum of one week's notice.

Existing subsoil to be broken up to 300mm depth in planting areas.
Topsoil depths:
Shrub planting – 450mm depth
Wildflower seed – 100mm depth

Trees
Trees shall be set in pits 900mm Ø x 900mm depth, backfilled with a mixture of approved topsoil and tree and shrub planting compost at the rate of one part compost to two parts topsoil and 70 -140g/m² Osmocote, Sierrablen Flora 15-9-9 + 3% MgO granular controlled release, or similar approved.
Small trees/ Specimen shrubs to be set in 750 x 750mm pits and backfilled with topsoil, compost and fertilizer mix at a rate as for the trees.
Each tree shall be planted to the original depth and secured by two stakes 1.4m in length and a timber cross bar with soft rubber block and belting. After planting all trees shall be thoroughly watered in and a 50mm depth layer of Melcourt ornamental Bark Mulch 5-35mm with minimal dust and fines and less than 5% wood content or similar approved spread over the tree pit. Allow one clear spiral guard and one 2.5m x 35mm Mona relief watering pipe with Aira inlet per tree. - Supplier Greentech Tel: 01423 332100 or similar approved.

Shrub mix
Spaced at 1.2m centres. All stock shall be planted in individual pits and backfilled with two parts topsoil to one part tree and shrub planting compost.
All stock to be supplied bare root if in season. All stock to be supplied in containers if planted out of season.
Planted in Tubex Mesh range, 75cm, 12mm netting w/o lining, colour green with stakes and ratchet ties, or similar approved.
After planting, all plants to be watered in and a mulch layer of well composted, 5-35mm contract FSC forest bark, spread over the pit to 50mm depth and 1m diameter.
Undersown with wildflower seed throughout:

Pro Basic 12 80/20 mix
Product code – 130JC4125A or similar and approved
Supplier: John Chambers Wildflowers
www.johnchamberswildflowers.co.uk
Sowing rate: 5g per m²

Wildflower	%
Lady's Bedstraw	1.2
Common Bird's-foot-trefoil	2.0
Salad Burnet	3.0
Meadow Buttercup	2.0
White Campion	1.5
Wild Carrot	1.2
Oxeye Daisy	0.5
Black Medick	2.5
Ribwort Plantain	2.4
Selfheal	1.2
Yarrow	2.0
Common Sorrel	0.5
Total	**20**
Low maintenance grasses	**80**

Shrub planting
PLANTS - GENERAL
- Condition: Materially undamaged, sturdy, healthy and vigorous.
- Appearance: Of good shape and without elongated shoots.
- Hardiness: Grown in a suitable environment and hardened off.
- Health: Free from pests, diseases, discoloration, weeds and physiological disorders.
- Budded or grafted plants: Bottom worked.
- Root system and condition: To requirements of National Plant Specification and balanced with branch system.

All shrubs shall be set out to the positions shown on the drawing and to the densities given. All stock shall comply with the specification provided on the drawing.
Plants unobtainable or known to be likely to be unobtainable at time of ordering: Submit alternatives, stating: Price; difference from specified plants/ trees. Obtain approval before making any substitution.
All shrub beds shall be topped up with good quality topsoil to ensure 450mm planting depth the base ground being thoroughly broken up before placement. Tree and shrub planting compost shall be spread to a minimum depth of 50mm and in addition evenly spread, 70 -140g/m² Osmocote, Sierrablen Flora 15-9-9 + 3% MgO granular controlled release, or similar approved, thoroughly working in during cultivation.
Shrub planting pits should be 150 mm wider than roots when fully spread. Backfill with excavated material. After planting thoroughly water immediately without damaging or displacing plants or soil.
Lightly firm soil around plants and fork and/ or rake soil, to a fine tilth with gentle cambers and no hollows. Avoid damaging plants. A 50mm depth layer of Melcourt ornamental Bark Mulch 5-35mm with minimal dust and fines and less than 5% wood content or similar approved spread is to be spread over entire bed. The mulch shall be free of pests, disease, fungus and weeds.

Wildflower seed

Wild flower areas shall be topsoiled with 100mm of low grade topsoil placed over well cultivated and graded ground. Prior to seeding areas shall be sprayed with an approved contact herbicide to clean the seed bed of unwanted plant species. The soil shall be raked and cross raked to form a fine tilth. Seed shall be sown at the rates given in the schedules.
The soil shall be raked and cross raked to form a fine tilth. Seed shall be sown in two directions at 10g/m² and lightly raked in.

WFG20 – Eco Species Rich Lawn or equal and approved mixture for BREEAM credits.
Supplier: Germinal
www.germinal.com
Sowing rate: 10g per m²

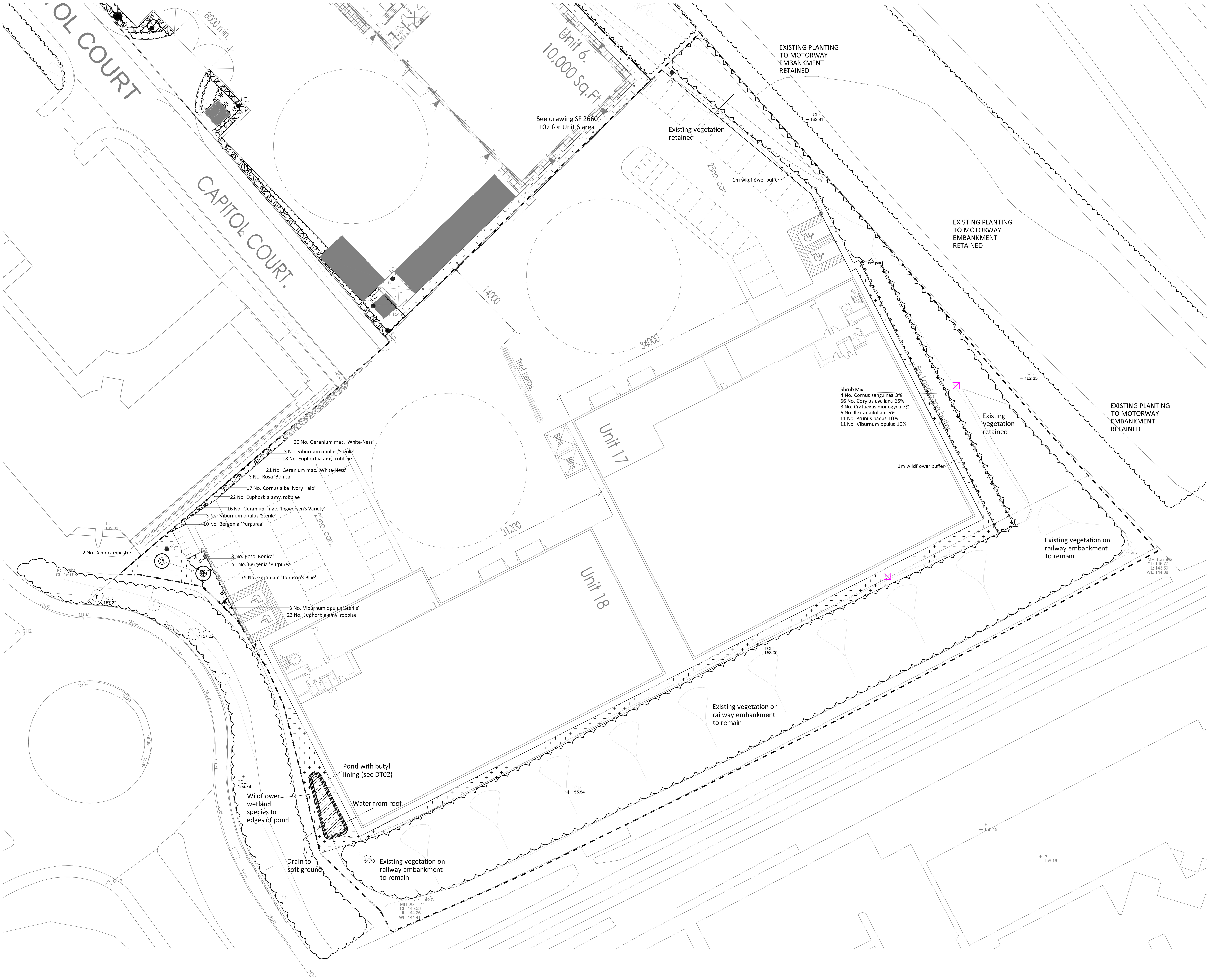
Species	%
Slender creeping red fescue	12.5
Hard fescue	10.0
Sheeps fescue	10.0
Small leaved Timothy	2.5
Common knapweed	2.0
Ribwort plantain	1.0
Self heal	1.0
Meadow buttercup	2.0
Birdsfoot trefoil	0.5
Strong creeping red fescue	15.0
Chewings fescue	10.0
Smooth stalked meadow grass	5.0
Rough stalked meadow grass	5.0
Browntop bent	5.0
Creeping bent	2.5
Perennial ryegrass	2.5
Creeping buttercup	2.3
Lady's bedstraw	1.25
Red clover	2.0
White clover	2.0
Common sorrel	0.5
Small scabious	0.2
Dandelion	0.3
Black medick	1.0
Flax	1.0
Common mouse-ear	0.2
Cowslip	0.1
Cats-ear	0.2
Rough hawkbit	0.5
Autumn hawkbit	0.5
Yellow rattle	0.2
Wood sage	0.5
Wild carrot	0.25
Yarrow	0.5

Maintenance

Carry out the operations in the following clauses for **a period of 12 months** from the date of practical completion.
Plants/ trees/ shrubs that have failed to thrive (unless due to theft or malicious damage) within the 12 month period from the date of practical completion will be replaced with equivalent plants/ trees/ shrubs to match the original.
Remove soil and arisings from hard surfaces and grassed areas. Generally leave the works in a clean tidy condition at Completion and after any maintenance operations.
Maintain weed free area around each tree and shrub. Keep planting beds clear of weeds. Fork over beds as necessary to keep soil loose, with gentle cambers and no hollows. Take care not to reduce depth or effect of mulch.
Gently firm loosened soil around trees/ shrubs. Straighten leaning trees/ shrubs. Tighten and straighten stakes if required.
Prune to promote healthy growth and natural shape removing: Dead, dying, diseased wood and suckers. Remove arisings. Trim and shape each specimen appropriately to species, location, season, and stage of growth, leaving a well balanced natural appearance. Cut back herbaceous material in autumn.
All shrub beds shall be thoroughly watered as necessary for the continued thriving of all planting. In times of water shortage obtain instructions before proceeding.
Re-mulch at the end of the 12 month maintenance period to a depth of 50mm ensuring that the soil is thoroughly moistened prior to re-mulching.
All planting shall be maintained in good order throughout the initial establishment period.
Visits: Twice a month between May and September and a total of three visits between October and April. All arisings are to be removed. Spot treat persistent weeds with glyphosate.

Shrub mix planting
Areas shall be maintained weed and litter free at all times and shelters regularly checked for firmness. Any stakes that fail shall be replaced. All stock shall be watered in during periods of drought. At the end of the growing season each plant shall receive an application of slow release fertilizer. Any plants that die or fail to thrive shall be replaced with stock to the original specification. The wildflower grass within the areas is to be strimmed twice a year. At the end of the defects period all trees shall be inspected and any found to be dead or failing shall be replaced with stock to the original specification. Mulch shall be topped up to 50mm depth.

Wild Flower area
First Year 4/5No. cuts (emphasis to reduce competition from grasses and control weeds)
First cut March/April to 50cm, if Spring seeding first cut in May
Cut sward to height of 50cm every two months. Remove all cut material to avoid smothering the sward.
Final cut in September/ October.
Long term management Cut wildflower areas once annually in July. All arisings to be removed from site.



Trees

Number	Species	Girth	Specification	Density
2 No.	Acer campestre	14-16cm	Extra Heavy Standard	Counted
Total :2 No.				

Shrub Mix

%	Number	Species	Pot Size	Height	Density
3%	4 No.	Cornus sanguinea	3L	600-900mm	1.2Ctr
65%	66 No.	Corylus avellana	3L	600-900mm	1.2Ctr
7%	8 No.	Crataegus monogyna	3L	600-900mm	1.2Ctr
5%	6 No.	Ilex aquifolium	3L	300-450mm	1.2Ctr
10%	11 No.	Prunus padus	3L	600-900mm	1.2Ctr
10%	11 No.	Viburnum opulus	3L	600-900mm	1.2Ctr
Total :100%	Total :106 No.				

Shrubs

Number	Species	Pot Size	Density
17 No.	Cornus alba 'Ivory Halo'	3L	5/m²
6 No.	Rosa 'Bonica'	3L	Counted
9 No.	Viburnum opulus 'Sterile'	3L	Counted
Total :32 No.			

Herbaceous

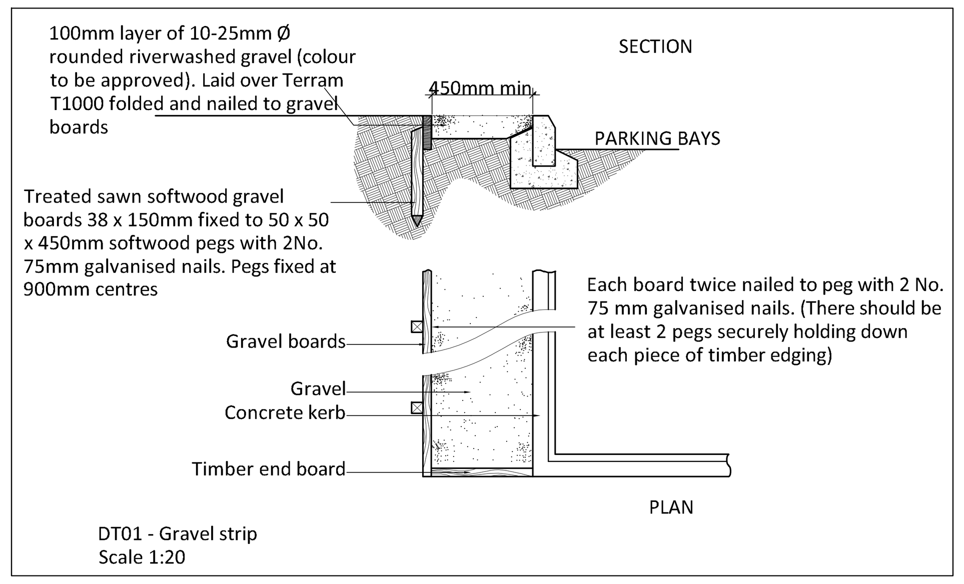
Number	Species	Pot Size	Density
61 No.	Bergenia 'Purpurea'	2L	6/m²
63 No.	Euphorbia amy. robbiae	2L	6/m²
75 No.	Geranium 'Johnson's Blue'	2L	6/m²
16 No.	Geranium mac. 'Ingwersen's Variety'	2L	6/m²
41 No.	Geranium mac. 'White-Ness'	2L	6/m²
Total :256 No.			

Key
SF Soft Landscaping
- Existing vegetation to be retained
- Shrub mix planting - protected with Netlon guards and undersown with John Chambers Basic 12 80/20 mix (see schedule)
- Ornamental bed planting
- Spot planting
- Proposed tree extra heavy standard 14-16cm girth
- Proposed wildflower seed WFG20

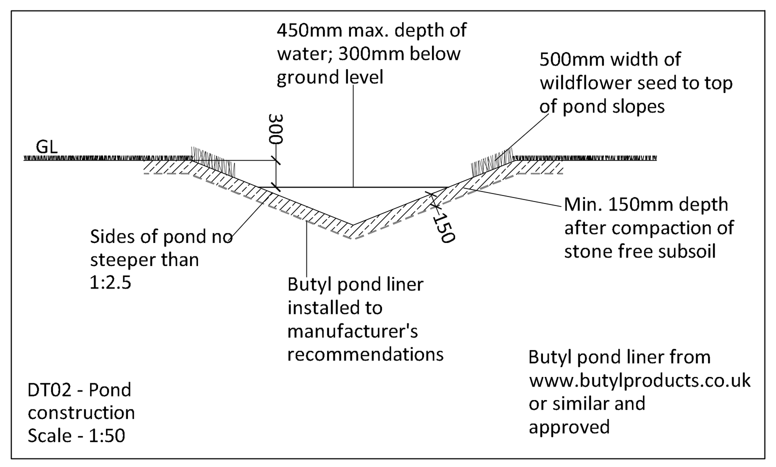
Key
SF Hard Landscaping
- Gravel - see DT01

Key
SF Landscape Features
- Pond - to be butyl lined (see DT01)
- Proposed wildflower seed to edge of pond - Germinal WFG9 (see schedule)

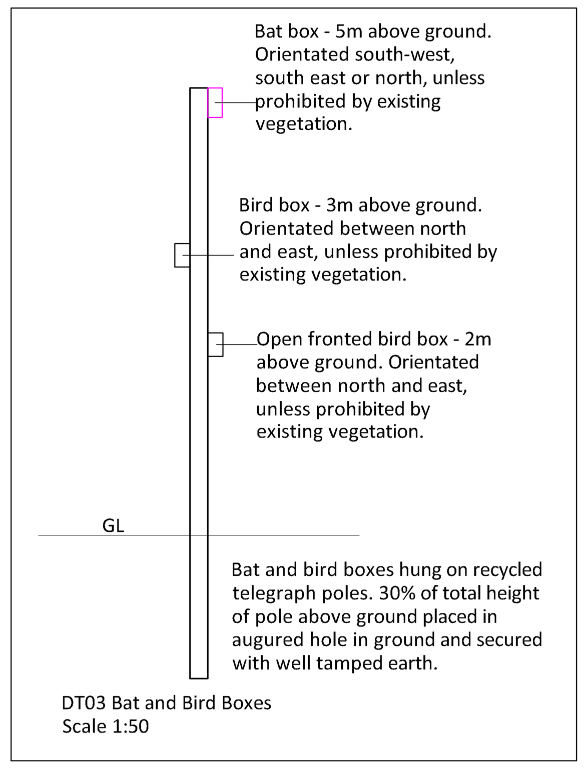
Key
SF Ecology
- Location of poles with bat and bird boxes (see DT03)



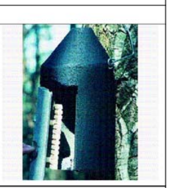
DT01 - Gravel strip
Scale 1:20

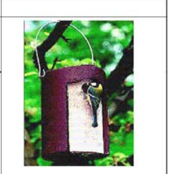


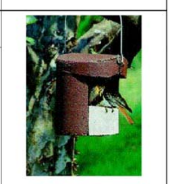
DT02 - Pond construction
Scale - 1:50



DT03 Bat and Bird Boxes
Scale 1:50

BOX 1		
Model	**General Purpose Bat Box 2F with double fronted panel**	
Number	**4No.**	
Make	**Schwegler**	
	This general purpose model is suitable for many situations. The wooden panel on the inside of the box provides inner spaces of different temperatures.	
Installation	Boxes to face south-west, south-east or north, at a minimum height of 4m and positioned to provide a clear flight path and out of strong winds. Can be hung from wall or tree and is supplied with aluminium nail.	
Dimensions	Diameter: 16 cm Height: 33 cm Weight: 3.8 kg	
Cleaning	The front panel can be removed. Cleaning should only be conducted by a licensed bat worker.	

BOX 1		
Model	**General Purpose Nest Box 1B (entrance hole 32mm)**	
Number	**4No.**	
Make	**Schwegler**	
	Ideal for small hole nesting birds such as tit species, great tit, blue tit and coal tit and sparrows such as tree and house sparrow.	
Installation	With trees, fixing height is between 1.5 and 5 metres above the ground. Installed to face between north and east, unless shaded. Can be hung from wall or tree and is supplied with aluminium nail.	
Dimensions	260h x 170w x 180d	
Cleaning	Cleaning should take place outside the breeding season, (March – August, inclusive).	

BOX 2		
Model	**Open-Fronted Nest Box 2H**	
Number	**2No.**	
Make	**Schwegler**	
	This nest box is suitable for use by robin and wren and occasional flycatcher, pied wagtails.	
Installation	With trees, fixing height is between 1.5 and 5 metres above the ground. Installed to face between north and east, unless shaded. Can be hung from wall or tree and is supplied with aluminium nail.	
Dimensions	Nesting chamber 12cm diameter	
Cleaning	Cleaning should take place outside the breeding season, (March – August, inclusive).	

FOR INFORMATION

Rev.	Date	Comments	Drawn	Chkd
D	10.02.20	Updated north eastern boundary to show retained vegetation	TM	MS
C	07.02.20	Added shrub mix planting buffer to north eastern boundary	TM	MS
B	12.12.19	Added woodland shrub planting to north eastern boundary	TM	CW
A	11.10.19	Replaced ornamental planting with wildflower seed. Added pond.	TM	JE

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Project
Capitol Park - Phase 2

Title
Landscape Proposals

Project No.	Drawing No.	Rev.
SF 2925	LL01	D

Scale	Date
1:250 @ A0	13.05.19
Drawn by	**Checked by**
TM	MS

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