

June 2021

LANDSCAPE MAINTENANCE AND MANAGEMENT PLAN

PROPOSED DRIVE-THRU & PFS

Academy Business Park, Knowsley, Merseyside

DRAWING SCHEME 18-004 Revision F

ORBIT INVESTMENTS(Properties) LTD

Emerson House

Heyes Lane

Alderley Edge

Cheshire

SK9 7LF

MICHAEL VINSUN LANDSCAPE DESIGN

chartered landscape architect
arboriculture



Arboricultural
ASSOCIATION
Technician Member

Parties:

employer:

Orbit Investments(Properties)Ltd
Emerson House
Heyes Lane
Alderley Edge
Cheshire
SK9 7LF
Tel:01625 588400

local authority:

Knowsley Metropolitan Borough Council
Municipal Buildings
Huyton
L36 9UX

landscape architects:

MichaelVinsun dipla(leeds) cmlt techarbor.a
40 Ayrshire Way
Congleton
Cheshire
CW12 3TN
Tel:01260 280370

1:00 FORMAT OF PLAN

- Description of Site
- Aims of Management and Maintenance Plan
- Management Objectives
- Detailed Maintenance Specification
- Annual Schedule of Operations

1:1 Description of Site

The site is part of a larger redundant industrial complex.

It is situated upon an area of grassland with some former roads and parking.

The site is notable only for the presence of Bee Orchids in part of the grassland and it is intended to transplant these into the new scheme.

The landscape design is intended as a mix of formal and native plantings suited to the site conditions prevailing.

1:2 Aims of Management and Maintenance Plan

The management plan aims to outline the basic maintenance operations required to ensure successful establishment of the landscape plan.

1:3 Management Objectives

1:31 Establishment Period

All hard and soft landscaping shall be completed in accordance with the approved scheme, within the first planting season following completion of the approved development.

Drawings: **Michael Vinsun 18-004 Revision F**

All trees ,shrubs and hedging shall comply with British Standard 3936:Specification for Nursery Stock.

All pre-planting site preparation, planting and post planting maintenance works shall be carried out in accordance with the requirements of BS4428(1983) Code of Practice for General Landscape Operations(Excluding Hard Surfaces).

All new tree plantings shall be positioned in accordance with the requirements of Table A.1 of the BS 5837(2012) Trees in Relation to Design, Demolition and Constuction.

All planting works shall be in accordance with BS 8545:2014 Trees from nursery to independence in the landscape.

Any tree, shrub or hedge planted in accordance with the planning approved drawings which is removed, dies, becomes severely damaged or becomes diseased within 5 years of planting shall be replaced within the next planting season with materials of identical specifications to the original plant/plants.

1:32 Scope Of Work

Work required consists of :

- a. Tree Planting
- b. Shrub Planting
- c. Transplanting Bee Orchids into new positions on alternative site.
- d. Grass seeding-Lawn grass seeding
- e. Planting Native hedgerow.

1:33 Responsibilities

Landscape management of the landscape areas and site generally shall be Orbit Investments(Properties)Ltd.

1:35 Inspection & Monitoring

To be Orbit Investments(Properties)Ltd

1:36 Record Sheets

See Appendix for required work record sheets

1:37 Protection of the Public

At all times adherence to safety procedures must be adhered to and appropriate

Risk Assessments and Method Statements formulated,agreed and issued to the employer.

1:38 Workmanship and Cleanliness

All site works shall be carried out in a timely workmanlike manner and in accordance with the following British Standards:

BS 3936-Parts 1:1992 Nursery Stock specification for trees and shrubs.

BS 3936-Parts 5:1985 Nursery stock specification for Poplars and Willows

BS 3936-Part 10:1990 Nursery stock specification for groundcover plants

BS 4428:1989 Code of practice for general landscape operations(excluding hard surfaces)

BS8545:2014 Trees from nursery to independence in the landscape.

1:39 Disposal of Waste Material

Any arisings from site are to be carried from site to authorised disposal areas by certified contractors with up to date waste carriers license as issued by the Environment Agency.

1:40 Irrigation Arrangements

In the event of irrigation being necessary then a United Utilities licensed standpipe will be required for the period instructed.

1:41 Use of Pesticides and Herbicides

NO PESTICIDES OR HERBICIDES SHALL BE USED ANYWHERE ON THE SITE

1:42 Flora and Fauna

No site flora is to be removed without a specific instruction from the employer.

No fauna is to be disturbed.

Any undesirable fauna should be reported so that suitable control action may be planned and implemented.

2:00 MAINTENANCE SPECIFICATION

2:1.1 Maintenance to accord with the requirements of BS 7370:1991 and
BS.3998:2010 Tree Work Recommendations

2:2 Amenity Grass Areas

2:2.1 Cuts: Grass will be cut regularly with a minimum of 14 cuts, with first cut early April.

All arisings shall be removed to compost

2:2.2 Bee Orchids(Off this Site- Management)

- Monitor health of Bee Orchids to ensure proliferation within the general sward.

- Grass will be cut regularly with a minimum of 14 cuts, with first cut early April.

- Maintain grass height around bee orchid clumps at 50mm by "trimmer"

- Ensure grass does not become compacted/waterlogged

- Repair damaged areas of trampling, abrasion or scalping during mowing by oversowing

- Regular removal of litter and fallen leaves and cutting to maintain a neat appearance.

- Annually inspect site and clear by hand any undesirable plant species (Hand dig)

2:2.4 Trees, Understorey and Hedges

- Place a basal mulch to new tree plantings 1m diameter, 75mm deep using clean bark chip mulch only.

-Watering new trees only as required/instructed(allowing 10No.visits to apply 30 gallons/semi-mature tree and 15 gallons to standard trees.)

Use watering bags or form a base moat to contain water.

2:2.5 **Weed Control**

To be by hand removal,no herbicides are to be used on the entire site.

2:2.6 **Mulch**

To be 75mm thick for all planting,trees,hedges and shrubs including native understorey.

An approved ornamental grade conifer bark will be suitable.

2:2.7 **Fertiliser**

Organic bonemeal may be applied to trees,hedges and shrubs at a rate suggested by the manufacturer,(150g/m² semi-mature tree,70g/m² other plantings.)

2:2.8 **Re-firming**

Generally trees and shrubs shall be maintained in a firm upright position and all ties and stakes regularly checked for security.

Particularly after strong winds,frost heave or other disturbances.

Aim to remove tree stakes and tie material after 5 years or sooner subject to growth.

2:2.9 **Pruning**

Pruning should be carried out by qualified personnel only.

-Standard:BS 7370.4,clauses 3.6.3 to 3.6.5.

-Appearance:Trim individual plants appropriate to species,location and season to leave a well balanced natural shape.

-Cutting:Appropriate clean,sharp tools giving clean sharp cuts.

-Ensure tools are cleaned and disinfected if dealing with diseased wood.

-Timing:Prune shrubs flowering March-July immediately after flowering.
Shrubs flowering July-October back to old wood in Winter.

- Disposal of arisings:Large cuttings may be placed on site as habitat potential.

2:2.10 **Pruning of Trees**

- Tree work standards **BS 3998:2010 Recommendations** and also **Forestry and Arboriculture Training and Safety Council Safety Guidance**.
- During pruning protect adjacent structures,plants and trees.
- Chain saw operators must hold CS30/31/32/38/39 and/or CS47 subject to works to be undertaken under the PUWER 98 regulations.
- Timing: Prune trees preferably October to February.
- Retain prunings of all sizes on site as habitat.

2:2.11 **Perimeter Hedges**

- To be managed by"sectional pruning" to maintain wildlife value while controlling excess growth and potential decline as wildlife corridors.(Around 10% -20% per season)Pruning should be restricted to November-January.

2:2.12 **Native Plantings**

- Maintain with minimal intervention but over time observe development and intervene only where required.(Original planting densities were low).
- Check rabbit guards/adjust
- Check/top-up bark mulch to base.(600mm diameter ring/each plant)
- Replace failures at end of Season 1 and 2.

2:2.11 **Reinstatement**

- Remove dead plants as soon as possible and replace within the next available season or as required.

2:30 Site Cleanliness

2:3.1 Litter/Dog Waste

-Collect litter as necessary to maintain a clean,litter free environment

Management Schedules
Proposed Drive Thru & PFS
Academy Business Park, Knowsley, Merseyside

1:00 Tree Planting

Item	Frequency	Years
Inspect trees for security of stakes/fixings adjust as required	monthly	1-3
Inspect for any remedial pruning/pests and diseases	3 monthly	1-5
Apply bonemeal fertiliser to tree base (at 100grams/m2)	annual(Spring)	1-5
Water trees in dry periods,(May-June/August-Sept),50litres/tree using drip bags attached to stems.	as required	1-2
Replace dead or dying trees with identical specification material	annual inspection	Years 1-5-Autumn

2:00 Shrub Plantings

Maintain shrub beds weed free by hand weeding only.	monthly	Years 1thru5
Apply an annual fertiliser dressing of bonemeal @75grams/m2-work into soil surface.	annual(Spring)	Years 1thru5
Cut back seasonal growth/remove to compost	autumn	Years 1thru5
Top-up bark mulch layer to 75mm thickness using ornamental bark.	item	Year 4
Prune shrubs to maintain form	annually	Years 2/4/5

Site Cleanliness

Litter picking over site/remove to waste	monthly	Years 1thru5
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Hedgerow Plantings

Firm plants and rabbit guards	monthly	1/2
Apply an annual fertiliser dressing of bonemeal @75grams/m2-work into soil surface.	annual	1/2
Trim hedging to height and depth-1.2m high/800mm width	as required	3/5

Mown Grass

No pesticides to be used

Cut grass to 30mm,remove cuttings to compost	weekly(Summer)	Years 1thru5
Apply Spring/Summer and Autumn fertiliser as per manufacturers specification.	one each spring/autumn	Years 1thru5

Bee Orchid Grassland

No pesticides to be used

Allow for establishment cuttings of low maintenance grass seeding	weekly/Summer +50mm	1/2
Hand weed around transplanted Bee Orchids as required	monthly(Summer)	1/2