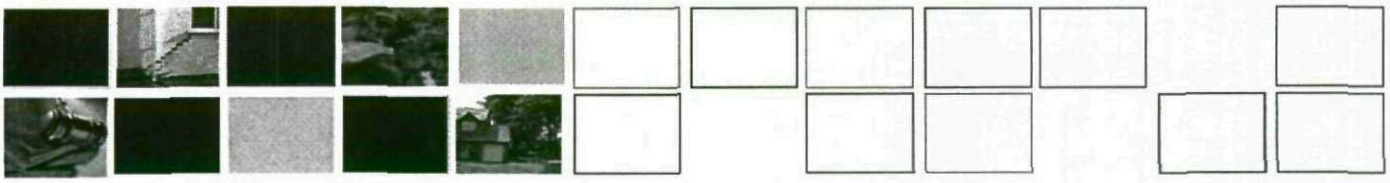
Planting Implementation and Maintenance Programme



Wentworth Industrial Park,
Tankersley

Landscape Planning Limited
Goodlass House, Goodlass Road, Liverpool L24 9HJ
Tel: 0151 448 2464 Fax: 0151 485 7171

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Report

On

Planting Details and Aftercare Management Plan

For

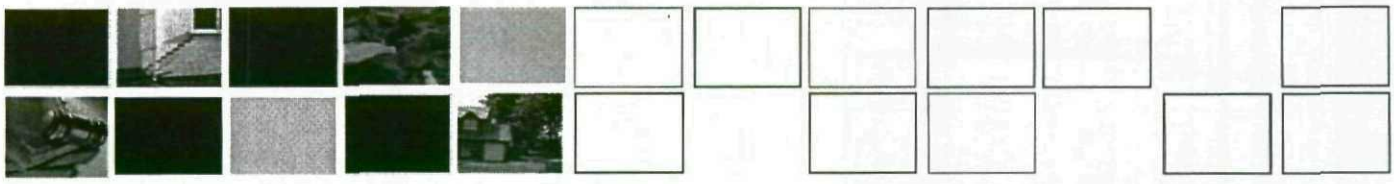
Wentworth Industrial Estate, Tankersley

Prepared by

Landscape Planning Limited

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9.0 Hedge Planting

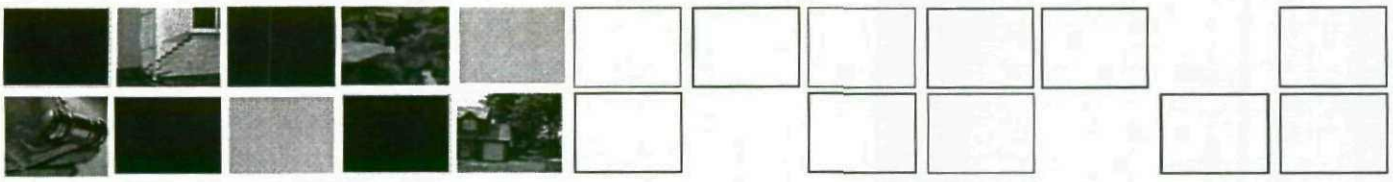
10.0 Grass Seeding

11.0 Watering

12.0 Establishment Maintenance/Management for Planting

13.0 Long Term Maintenance/Management for Planting

14.0 Additional Recommendations



4.0 GROUND PREPARATION

4.1 **Vegetation Clearance** - the Contractor shall apply a non-residual translocated herbicide in accordance with the manufacturer's instructions to all areas to be planted between 21 and 25 days prior to planting except natural regeneration areas, woodland mitigation planting areas or woodland mitigation understorey planting areas and gapping up areas. Locations to be agreed with the landscape architect prior to works commencing.

4.2 **Work Near Trees** - Reference should be made to **BS 5837** '*Trees in Relation to Construction – Recommendations*' if work near trees is to be carried out, compaction should be avoided and any alteration of soil levels should be where possible avoided or if required performed sensitively and under the supervision of a qualified arboriculturist. Please refer to Arboricultural Implication Study.

4.3 **Subsoil Preparation – Clause 4.7** shall apply to all ornamental tree and shrub planting areas, ornamental groundcover and shrub beds and tree pits where it is known compaction of the soil has occurred, which may prevent satisfactory root penetration. The areas of compaction shall be agreed with the landscape architect.

5.0 TOPSOIL

5.1 **Clause 4.8** shall apply to all native and ornamental tree and shrub planting areas, ornamental groundcover, shrub beds, tree pits and grass seeded areas.

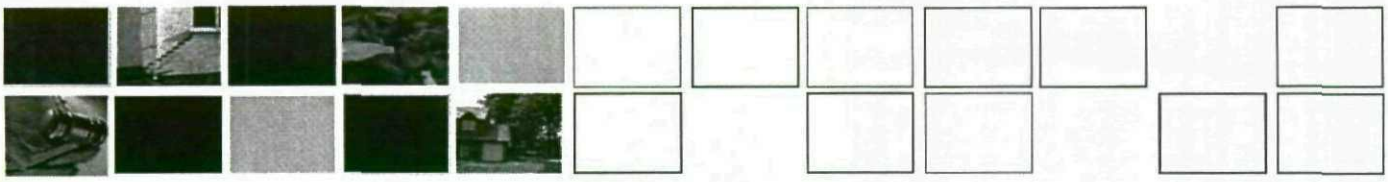
5.2 Immediately prior to grass seeding **Clause 5.3** *Preparation of Seed Bed* shall apply to all areas to be grass seeded.

5.3 Immediately prior to planting **Clause 7.3** *Site Preparation* shall apply to all areas to be planted with trees, shrubs and herbaceous materials.

5.4 In addition, all undesirable material brought to the surface including stones larger than 50mm in any dimension, roots, tufts of grass and foreign matter is to be removed off-site. Final visual appraisal of topsoil material shall be agreed with the landscape architect immediately prior to planting.

6.0 MULCH MEMBRANES

6.1 Mulching to all ornamental tree and shrub planting areas shall consist of secured sheet material and minimum 50mm covering of landscape architect approved bark mulch.



Operation	Period
Weed Control	April, June & September & as when necessary
Checking stakes, ties, guards etc	Each visit
Checking mulch mats	Each visit
Top up organic mulch	November
Snagging dead & dying plants	September to October
Grass Cutting	As and when required - Grass to be kept between 50-200mm
Replanting	November & December
Watering	May, June, July & September & as when necessary
Inspection reports	Each visit
Pruning	November & as when necessary
Litter	Each visit

Table 1 – Operations and timing of operations during 60 month maintenance period.

13.0 LONG TERM MAINTENANCE/MANAGEMENT FOR PLANTING

13.1 Long term of maintenance should be undertaken on an annual basis and would include weed control, pruning and grass cutting. Operations will need to be undertaken by suitably qualified landscape management contractors, with records of operations (see Appendix 2) and passed to the relevant managing authorities.

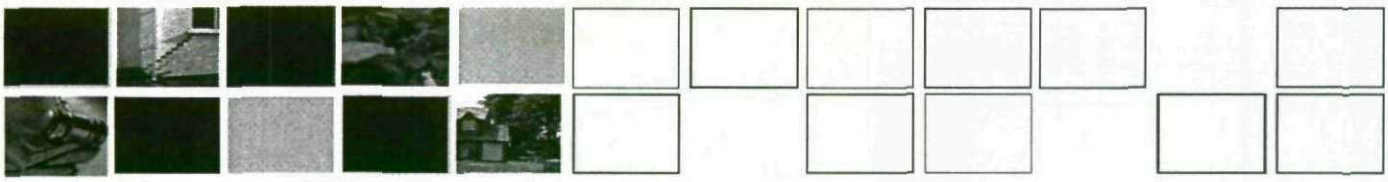
In the longer term (approximately 15 years) a comprehensive review of the vitality, viability and function of all planting on-site should be undertaken by suitably qualified landscape managers. This will include the performance of the natural regeneration areas, woodland mitigation planting areas, woodland mitigation understorey planting areas and gapping up areas.

14.0 ADDITIONAL RECOMMENDATIONS

14.1 Landscape Planning Limited strongly recommends that a suitably qualified landscape architect be present to inspect ground preparation prior to any planting/seeding. Additionally, planting methods, species and densities should also be observed by a landscape architect.

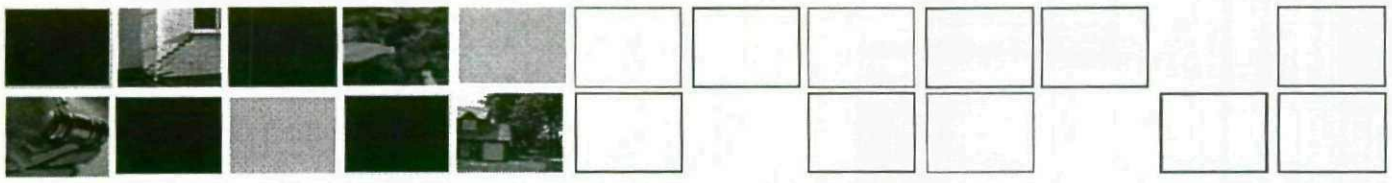
14.2 Upon proposed Practical Completion of the works it is recommended a landscape architect be present to inspect the works to ensure planting/seeding and associated landscape works have been completed in accordance with the drawings and specification.

14.3 Once the maintenance regime commences, the annual snagging period (September-October) should be attended by the landscape architect in order that replacement plant totals can be impartially agreed. At this time, the remainder of the works can be subjected to an annual inspection by the landscape architect.



Appendix 1

Pesticide Application Record Sheet



Landscape Works – Pesticide Record

Contract reference number:

Date of Visit: .. / .. / ..
(minimum one record per day)

Contract Name:

Name of Contractor:

Contractor's telephone no:

Operations carried out	Pesticide used	Locations of operations
Total Weed Control		
Weed Control in Waterbody		
Selective Herbicide to areas of grass		
Herbicide to cultivated plant beds		
Total Herbicide around individual plants in grass		
Other		

Name of operatives on site:

Qualifications of operative named

Supervisor .....

.....

Application by .....

.....

Signed (for Contractor).....

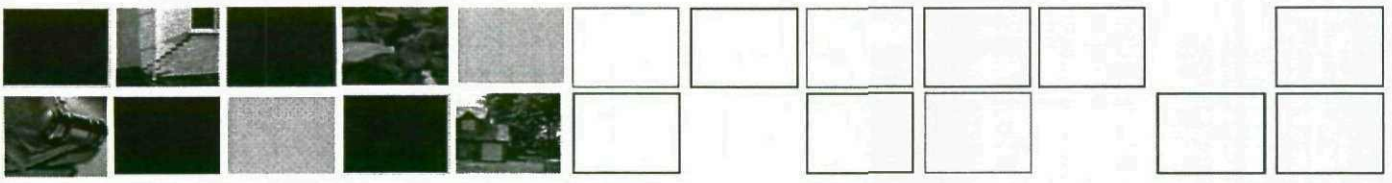
Contractor's observations on damage by others or any incidents

.....

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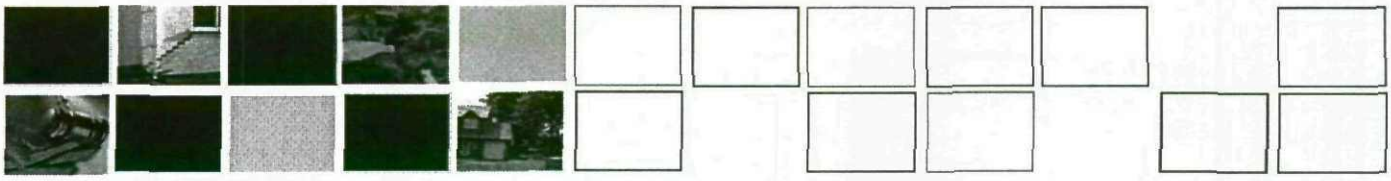
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Appendix 2

Inspection Report Record Sheet



Landscape Works – Inspection Report

Contract reference number:

Date of Visit: .. / .. / ..
(minimum one record per day)

Contract Name:

Name of Contractor:

Contractor's telephone no:

Operations carried out	Locations of operations

Name of operatives on site:

.....

.....

.....

.....

.....

Contractor's observations on damage by others or any incidents

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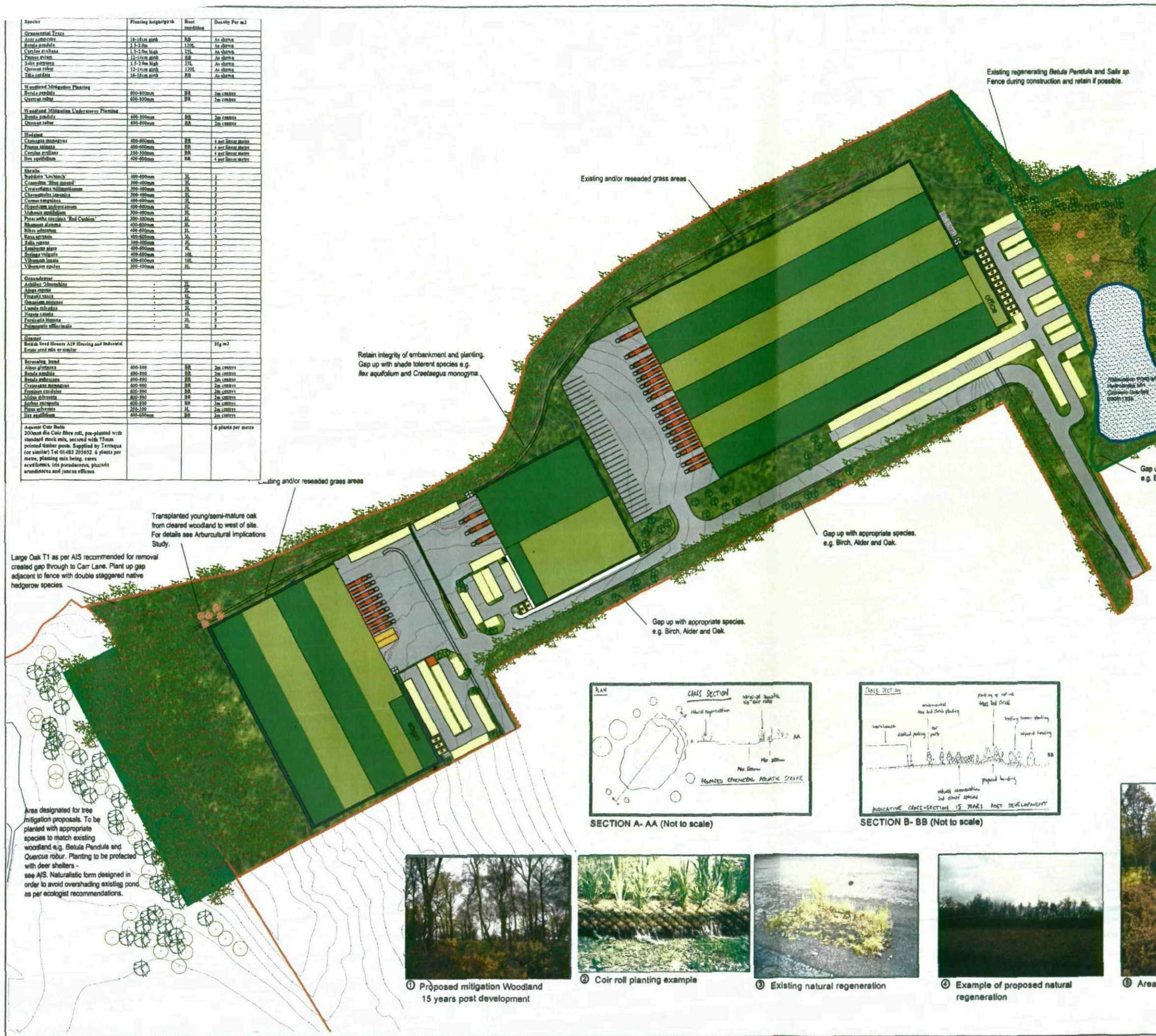
.....

This maintenance visit has been satisfactorily completed

Signed (for Contractor).....

Name:..... Date: .. / .. / ..

Species	Planting height/girth	Root condition	Density Per m2
Ornamental Trees			
Acer campestre	16-18cm girth	RB	As shown
Betula pendula	2.5-3.0m	130L	As shown
Corylus avellana	1.5-2.0m high	25L	As shown
Prunus avium	12-14cm girth	RB	As shown
Salix purpurea	1.5-2.0m high	25L	As shown
Quercus robur	12-14cm girth	130L	As shown
Tilia cordata	16-18cm girth	RB	As shown
Woodland Mitigation Planting			
Betula pendula	600-800mm	BR	3m centres
Quercus robur	600-800mm	BR	3m centres
Woodland Mitigation Understorey Planting			
Betula pendula	600-800mm	BR	3m centres
Quercus robur	600-800mm	BR	3m centres
Hedging			
Crataegus monogyna	600-800mm	BR	4 per linear metre
Prunus spinosa	600-800mm	BR	4 per linear metre
Corylus avellana	350-500mm	BR	4 per linear metre
Ilex aquifolium	400-600mm	BR	4 per linear metre
Shrubs			
Buddleia "Lochinch"	300-400mm	3L	3
Ceanothus "Blue mound"	300-400mm	3L	3
Ceratostigma willmottianum	300-400mm	3L	3
Chaenomeles japonica	300-400mm	3L	3
Cornus sanguinea	400-600mm	3L	3
Hypericum androsaemum	400-600mm	3L	3
Mahonia aquifolium	300-400mm	3L	3
Pyracantha coccinea "Red Cushion"	300-400mm	3L	3
Rhamnus alaternus	400-600mm	3L	3
Ribes sanguineum	400-600mm	3L	3
Rosa rugosa	400-600mm	3L	3
Salix repens	300-400mm	3L	3
Sambucus nigra	400-600mm	3L	3
Syringa vulgaris	400-600mm	10L	3
Viburnum lantana	400-600mm	10L	3
Viburnum opulus	300-400mm	3L	3
Groundcover			
Achillea "Moonshine"	-	2L	5
Ajuga reptans	-	2L	5
Fragaria vesca	-	1L	5
Omphalodes verna	-	2L	5
Lamium galeobdon	-	2L	5
Vinca minor	-	1L	5
Potentilla fulgens	-	2L	5
Polemonium caeruleum	-	2L	5
Grasses			
British Seed Houses A19 Housing and Industrial Estate seed mix or similar			35g m2
Screening bund			
Alnus glutinosa	600-800	BR	2m centres
Betula pendula	600-800	BR	2m centres
Betula pubescens	600-800	BR	2m centres
Crataegus monogyna	600-800	BR	2m centres
Fraxinus excelsior	600-800	BR	2m centres
Malus silvestris	600-800	BR	2m centres
Sorbus aucuparia	600-800	BR	2m centres
Pinus sylvestris	250-300	3L	2m centres
Ilex aquifolium	400-600mm	BR	2m centres
Aquatic Coir Rolls 200mm dia Coir fibre roll, pre-planted with standard stock mix, secured with 75mm pointed timber pegs. Supplied by Terraqua (or similar) Tel 01483 205652. 6 plants per metre, planting mix being, carex acutiformis, iris pseudacorus, phalaris arundinacea and juncus effusus.			6 plants per metre



SECTION A- AA (Not to scale)

SECTION B- BB (Not to scale)

① Proposed mitigation Woodland 15 years post development

② Coir roll planting example

③ Existing natural regeneration

④ Example of proposed natural regeneration



⑤ Area to be hedged

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ALL COORDINATES RELATED TO LOCAL GRID LOCATED TO OS NG BY BEST FIT TO DETAIL, EXTRACTED FROM OS DIGITAL DATA.

- Existing planting to be retained
- Proposed bunding
- Screening planting to include evegreen species
- Woodland mitigation planting
- Proposed aquatic marginal planting
- Proposed climax planting
- Proposed translocated planting
- Proposed ornamental tree planting
- Proposed natural regeneration area
- Existing natural regeneration area
- Proposed ephemeral aquatic scrape
- Proposed ornimental shrubs and ground cover
- Existing or re-seeded grass areas
- Proposed structures
- Proposed hardstanding
- Proposed car parking areas

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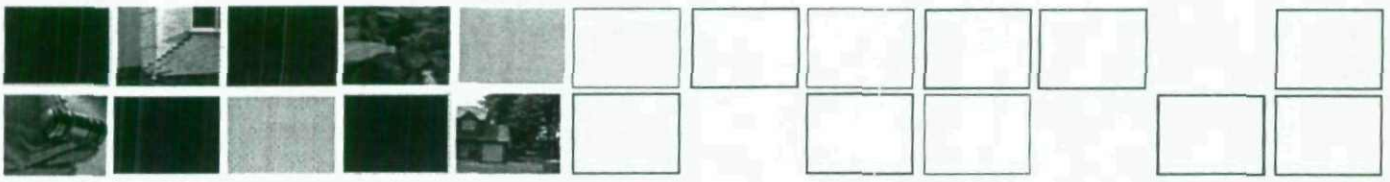
CLIENT:
Gladman Developments Ltd

LOCATION:
Wentworth Industrial Estate, Teknersley

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Landscape Master Plan

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DRAWN BY:	CHKD BY:	Drawing Base	A
DK/SC	DK	DATE: 03/12/2007	2940-200-O-Site Layout

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