

#### NOTES:

**Protection of Existing Grassland Areas:**  
During construction, all reasonable precautions shall be taken to minimise disturbance to, and movements across existing grassland areas. Any tracking or other areas of disturbance should be carefully graded and feathered in to existing levels.

#### Pond Earthworks:

Rubbish, concrete, metal, glass and decayed vegetation are to be removed and disposed of off-site.  
Re-graded areas are to be feathered into the existing levels using subsoil within the upper 300mm (min).  
Adjacent areas which may have been disturbed should be reinstated in accordance with above note.

#### Plants/Trees General:

To be materially undamaged, sturdy, healthy and vigorous in condition.  
To be of good shape without elongated shoots and characteristic of the species.  
To be grown in a suitable environment in order to be fully hardy.  
To be free from pests, discoloration, weeds and physiological disorders.  
Budded or grafted plants to be bottom worked.  
All trees, hedging, shrubs and plants to comply with BS 3698 specification for nursery stock.  
Species will be true to name and of British origin/provenance where appropriate.  
Do not substitute species, variety and form, or reduce the specified number/identity of plants without prior agreement. Note: sizes shown are minimum.  
All planting to be watered as required immediately after planting.  
All new trees to be positioned in accordance with the requirements of Table A.1, BS5837:2012.  
Any works to existing trees to be carried out in accordance with the guidance set out in BS3998:2010.

Existing grassland on proposed site for ancillary buildings to be translocated to receptor site as indicated.

#### Ornamental Hedging & Trees

Hedging - Griselinia plants for hedgerow to eastern car park should be consistent in species, cultivar and clone to ensure a uniform hedge. Hedgerow to be planted on a triple staggered row. Plants and rows to be 50cm apart with trenches wide enough to accommodate the full spread of the roots. Trench should be backfilled with as dug topsoil to BS3882:15. Container grown plants to be planted to depth of original root collar in accordance with BS4428.  
Trees - Tree pits for Extra Heavy Standard trees to be 1200mm x 1200mm x 900mm deep minimum, size to be adjusted if rootball is larger. The bottom of the pits are to be broken up if compacted and a 200mm depth of no fines material (clean gravel or broken stone graded 20-40mm) placed at the base of the pit and covered by a permeable geo-textile membrane eg Terram (www.terram.com tel: 01621 874200) to ensure good drainage. The sides of the pit are to be scarified and backfilled with as dug topsoil to BS3882:2015. Trees are to be supported with an appropriate underground guying system to BS 4043 (such as ArborGuy strapped anchor deadman guying system (by Green Blue Urban) (www.greenblue.com tel: 01424 717797. At completion carefully spread a general purpose mulch - prepared in accordance with PAS 100 - to an even depth of 5cm (sample supplier Green Tech Tel: 01423 332100).

#### Native Tree & Shrub Planting

Native tree and shrub whip plants to be protected from rabbits using appropriate proprietary flexible rabbit guards. Areas of new planting to be kept free of weeds during establishment using secured mulch matting. Bare root plants to be notch planted to depth of root collar in accordance with BS4428. Container grown plants to be planted to depth of original root collar in accordance with BS4428. All plants planted into much mats to be planted with appropriate long release fertiliser pellets (e.g. Camocote Tel: 01282 873333), applied in accordance with the manufacturer's recommendations and directions.

#### Tree Stakes for Selected Standard Trees

Stakes to be 65mm diameter tanalised softwood and pointed at one end. Top of stake to be 600mm above ground level and fixed to tree with 1 No suitable rubber tie. Stake to be firm in ground, position stake at time of planting.

#### After Planting

- Watering: Immediately after planting, thoroughly and without damaging or displacing plants or soil.
- Firming: Lightly firm soil around plants and fork and/or rake soil, without damaging roots, to a fine tilth with gentle cambers and no hollows.

Pond A Section A-A', S=1:100

Pond B Section B-B', S=1:100

#### Native Species Tree & Shrub Planting Schedule

SPECIES	SIZE/ SPEC	NM1 Area 238 m <sup>2</sup> 1no plants/sq m	NM2 Area 62 m <sup>2</sup> 1no plant/sq m	NM3 Area 56 m <sup>2</sup> 1no plant/sq m	NM4 Area 48 m <sup>2</sup> 1no plant/sq m	NM5 Area 30 m <sup>2</sup> 1no plant/sq m	NM6 1no plant/sq m
Alnus glutinosa	60 - 90cm br transp	20	5	5	5	2	14
	10 - 12cm selected std	4	1	1	1	1	-
Betula pendula	60 - 90cm br transp	39	10	9	8	5	27
	10 - 12cm selected std	8	2	2	1	1	-
Crataegus monogyna	60 - 90cm br transp	62	16	15	14	7	34
Euonymus europaea	60 - 90cm br transp	35	9	8	7	4	20
Ilex aquifolium	3 litre container	23	6	6	6	3	14
Taxus baccata	80 - 100cm rootballed	12	3	2	2	2	6
Populus alba	60 - 90cm br transp	31	8	7	7	4	10
	10 - 12cm selected std	4	1	1	1	-	-

#### Pond A Planting Schedule

SPECIES	SIZE / SPEC	PLANTING DEPTH	DENSITY no/M <sup>2</sup>	TOTAL NO
Brooklime - Veronica beccabunga*	Plugs	0 - 7cm	6	60
Frogbit - Hydrocharis morsus-ranae	Bare root	Any	-	45
Marsh Marigold - Caltha palustris*	Plugs	0 - 10cm	6	60
Ragged Robin - Silene flos-cuculi*	Plugs	Shallow edges	7	75
Water forget-me-not - Myosotis scorpioides*	Plugs	0 - 7cm	5	54
Water lily - Nuphar luteum	Bare root	30 - 90cm	-	45
Yellow flag - Iris pseudacorus*	Plugs	0 - 15cm	5	54

#### Pond A Planting:

\* Denotes plants are to be planted in small clumps around the edges and shallow areas of Pond A whilst ensuring that circa 80% of the shallow margins to the pond are kept clear.

#### NM1, NM2, NM3, NM4 & NM5:

Native Species Tree and Shrub Planting to be implemented in areas as indicated along the southern boundary. Areas to be located where there are existing gaps in the boundary vegetation. Plants are to be implemented at a density of 1no plant/sq m, notch planted (apart from Ilex which shall be pit planted) and protected with an appropriate proprietary, flexible, rabbit proof guard. Species to be set out in groups of 3 to 6. Selected standard trees are to be located where best levels of space and light occur.

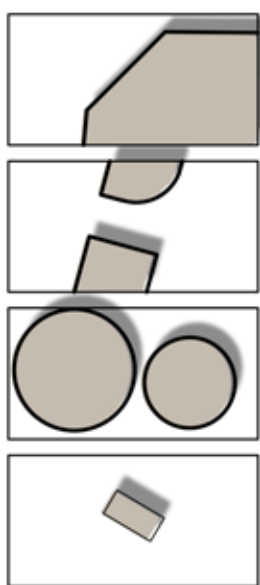
#### NM6: (see key below)

Areas of Native Species Tree and Shrub Planting to be implemented along the southern boundary to supplement the existing boundary trees and shrubs to create a more durable, robust landscape buffer. Plants are to be located in accordance with Landscape Architects guidance and are to be implemented at a density of 1no plant/sq m, notch planted (apart from Ilex which shall be pit planted) and protected with an appropriate proprietary, flexible, rabbit proof guard. Species to be set out in groups of 3 to 6.



#### Key - Landscape Layout

The essence of this scheme is to retain and enhance the site's existing characteristics by maintaining and where practicable, enhancing the high ecological and biodiversity value of the site through the proposals. A traditional landscape design approach wasn't considered to be appropriate due to the sensitivities of the site and surrounding landscape. As a result an ecology led design process has focused on retaining existing features by minimising direct effects upon the more sensitive parts of the site. The lodges are to be placed upon an EcoBase that is breathable and allows for the vegetation underneath to grow through. Two new wetland habitat areas are also proposed.



Rotunda  
See architects drawings for details.

Ancillary Buildings  
See architects drawings for details.

Various Rotunda Lodges  
See architects drawings for details.

Vardo  
Total: 4no. on EcoBases

Classic Airstream  
Total: 12no. on EcoBase

Meandering Shared Access Route

Boardwalk Grid

Sculptural Elements

Existing Road to be Removed and Restored  
Restored to Neutral Grassland: fill won from excavating ponds and built form to be placed within former road corridor and left to regenerate.

Existing Neutral Grassland  
Average species mix - a mix of coarse and finer grasses. To be retained, where Lodges/units are positioned within these areas, EcoBases are proposed to minimise any effects upon the grassland.  
See Management Plan for details.

Existing Basic Grassland  
Good species mix - pioneer calcareous grassland. To be retained, where the lodges/units are positioned within these areas EcoBases are proposed to minimise any effects upon the grassland.  
See Management Plan for details.

Existing Areas of Brambles  
Brambles to be cleared to facilitate the development. Thereafter brambles are to be managed as wildlife habitat.  
See Management Plan for details.

Existing Bare Ground with Ephemeral / Pioneer Species  
Areas of bare ground with a variety of rare species, especially within the area to the east of the spine road. Area to be retained and disturbed as little as possible, existing clumps of cotoneaster to be removed by hand. The lodge arrangement has been designed to minimise the effect upon these areas The area to the west of the spine road is less sensitive.  
See Management Plan for details.

Existing Amenity Grassland  
Managed 'shorter' grass. To be managed less frequently than the current regime.  
See Management Plan for details.

Existing Trees and Shrubs  
Good species mix - pioneer calcareous grassland. To be retained, where necessary, tidied and cleared of litter.  
See Management Plan for details.

Existing Recently Planted Tree Bund  
To be retained. Set within neutral grassland.  
See Management Plan for details.

Proposed Paths  
To lodges/accommodation. A permeable surfacing constructed from granular slag with no defined edge treatment.

Proposed Pond  
Ponds to be profiled to Ecologist's specifications and in accordance with sections above. Pond B to have bare faced sides free from planting.  
Pond A to be planted in accordance with Pond A Planting Schedule.  
See Management Plan for details.

Existing Fence  
Post and Rail fence to be retained.

Proposed Native Species Trees and Shrubs  
See schedule for species mixes, sizes and quantities.

Possible NJT Movement

Proposed Native Species Edge Planting  
Edge planting (NM6).

Proposed Trees & Hedgerow to Car Park  
H1 - Griselinia littoralis.  
Planted in a triple staggered row 50cm apart, 720 no. - 3lt container grown. Trees to be 4no Alnus cordata 18-20cm Extra Heavy Standard

Unit 6, Longley Lane  
Northenden, Manchester  
M22 4WT

DWG NO.  
M2685.04H

DWG TITLE:  
Landscape Layout

PROJECT TITLE:  
Millom Ironworks, Millom, Cumbria

CLIENT:  
AIBM LTD

DATE:  
02/2019

SCALE:  
1:500@A1

WORK STAGE:  
Planning

DRAWN BY:  
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BARNES WALKER

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