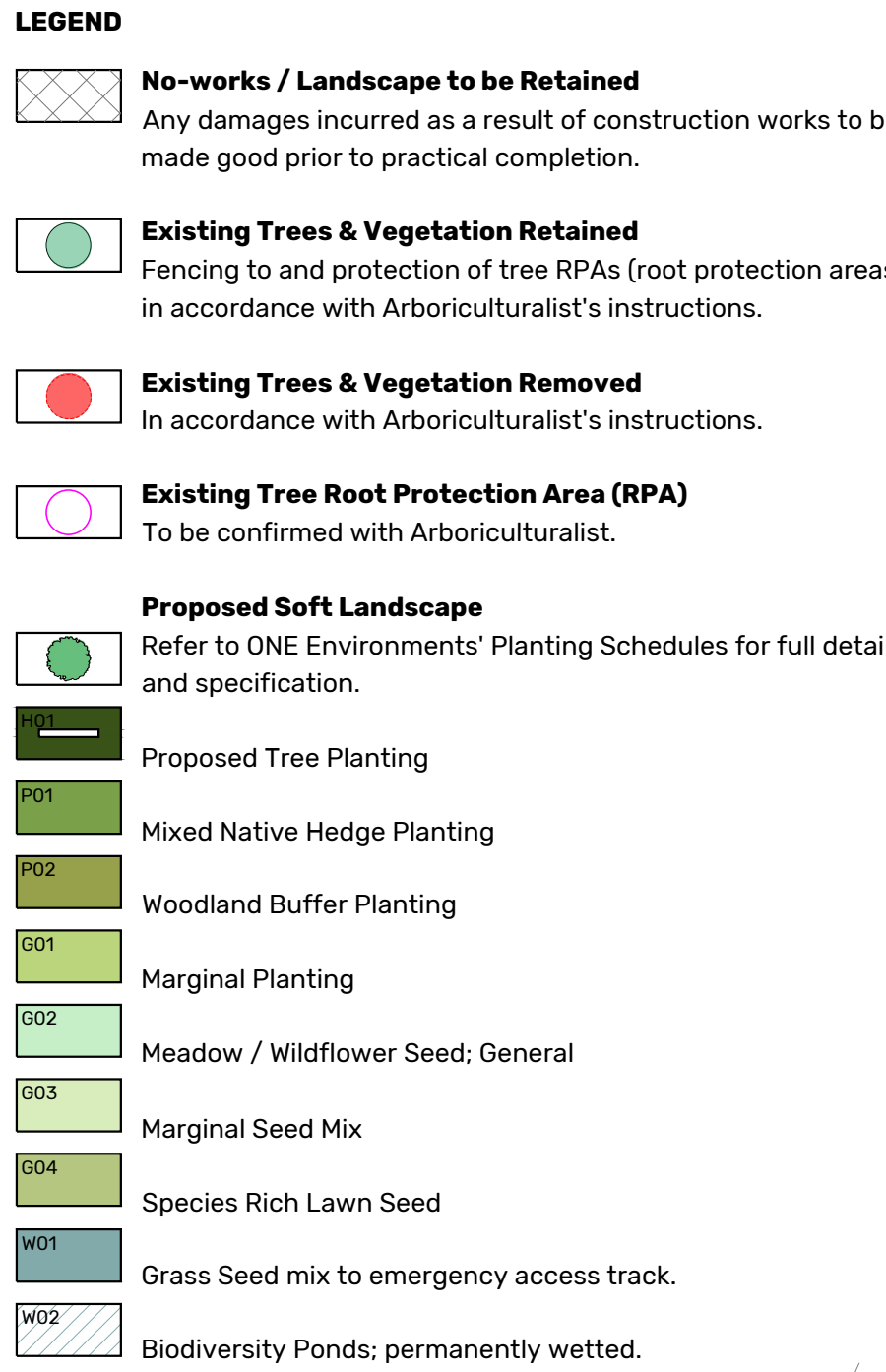




TREE PLANTING NOTE: All trees to be planted and secured in accordance with BS4248:1989 & BS4043:1989									
Botanical Name	Common Name	Form	GH	Height	Clear Stem	Root	Desity	Specification	
<i>Acer campestre</i>	Field Maple	EHS	14-16	3.0-4.0	Min. 2.0m	RB	Counted	5 x tr, hessian and wire wrapped rootball.	
<i>Alnus glutinosa</i>	Common Alder	MS	n/a	2.0-2.5		RB	Counted	3 x tr, hessian and wire wrapped rootball.	
<i>Alnus glutinosa</i>	Common Alder	EHS	14-16	3.0-4.0	Min. 2.0m	RB	Counted	5 x tr, hessian and wire wrapped rootball.	
<i>Carpinus betulus</i>	Hornbeam	EHS	18-20	4.0-5.0	Min. 2.0m	RB	Counted	5 x tr, hessian and wire wrapped rootball.	
<i>Corylus avellana</i>	Hazel	MS	n/a	2.0-2.5		RB	Counted	3 x tr, hessian and wire wrapped rootball.	
<i>Quercus monagana</i>	Common Hawthorn	H	12-14	2.5-3.0	Min. 1.5m	RB	Counted	4 x tr, hessian and wire wrapped rootball.	
<i>Ilex aquifolium</i>	Holly	H	12-14	2.5-3.0	Min. 1.5m	RB	Counted	4 x tr, hessian and wire wrapped rootball.	
<i>Malus sylvestris</i>	Crab Apple	H	12-14	2.5-3.0	Min. 1.5m	RB	Counted	4 x tr, hessian and wire wrapped rootball.	
<i>Prunus avium</i>	Wild Cherry	EHS	14-16	3.0-4.0	Min. 2.0m	RB	Counted	5 x tr, hessian and wire wrapped rootball.	
<i>Quercus petraea</i>	Sessile Oak	EHS	18-20	4.0-5.0	Min. 2.0m	RB	Counted	5 x tr, hessian and wire wrapped rootball.	
<i>Quercus robur</i>	English Oak	EHS	18-20	4.0-5.0	Min. 2.0m	RB	Counted	5 x tr, hessian and wire wrapped rootball.	
<i>Salix alba</i>	White Willow	EHS	14-16	3.0-4.0	Min. 2.0m	RB	Counted	5 x tr, hessian and wire wrapped rootball.	
<i>Salix caprea</i>	Goat Willow	MS	n/a	2.0-2.5		RB	Counted	3 x tr, hessian and wire wrapped rootball.	
<i>Sorbus aucuparia</i>	Rowan	EHS	14-16	3.0-4.0	Min. 2.0m	RB	Counted	5 x tr, hessian and wire wrapped rootball.	
<i>Tilia cordata</i>	Small-leaved lime	EHS	18-20	4.0-5.0	Min. 2.0m	RB	Counted	5 x tr, hessian and wire wrapped rootball.	

[illegible]

Botanical Name	Common Name	Form	Height	Root	Density	% Mix	Specification
<i>Carpinus betulus</i>	Hornbeam	Transplant	60-80cm	8	6/m ²	20	Species groups of min 500. plants. Triple staggered row, plants at 0.5m centres.
<i>Crataegus monogyna</i>	Common Hawthorn	Transplant	60-80cm	8	6/m ²	30	Species groups of min 500. plants. Triple staggered row, plants at 0.5m centres.
<i>Eurospirus europaeus</i>	Spindle	Transplant	60-80cm	8	6/m ²	10	Species groups of min 500. plants. Triple staggered row, plants at 0.5m centres.
<i>Fraxinus excelsior</i>	Holly	Transplant	60-80cm	8	6/m ²	10	Species groups of min 500. plants. Triple staggered row, plants at 0.5m centres.
<i>Ligustrum vulgare</i>	Privet	Transplant	60-80cm	8	6/m ²	10	Species groups of min 500. plants. Triple staggered row, plants at 0.5m centres.
<i>Molus sylvestris</i>	Crab apple	Transplant	60-80cm	8	6/m ²	10	Species groups of min 500. plants. Triple staggered row, plants at 0.5m centres.
<i>Rosa canina</i>	Dog Rose	Transplant	60-80cm	8	6/m ²	10	Species groups of min 500. plants. Triple staggered row, plants at 0.5m centres.
					% Total	100	

Botanical Name	Common Name	Depth	Height	Root	Density	Pot Size
<i>Alisma plantago-aquatica</i>	Water plantain	Marginal	50cm	CG	5/m ²	2L
<i>Cotula palustris</i>	Marsh marigold	Marginal	20cm	CG	7/m ²	2L
<i>Carex pendula</i>	Pendulous Sedge	Marginal	40cm	CG	5/m ²	2L
<i>Filipendula ulmaria</i>	Meadowsweet	Marginal	60cm	CG	7/m ²	2L
<i>Iris pseudacorus</i>	Yellow flag Iris	Marginal	60cm	CG	7/m ²	2L
<i>Lythrum salicaria</i>	Purple loosestrife	Marginal	20cm	CG	7/m ²	2L
<i>Mentha aquatica</i>	Water Mint	Marginal	40cm	CG	5/m ²	2L
<i>Myosotis scorpioides</i>	Water forget-me-not	Marginal	30cm	CG	7/m ²	2L
<i>Silene flas-cuculi</i>	Ragged robin	Marginal	40cm	CG	7/m ²	2L
<i>Veronica beccabunga</i>	Brooklime	Marginal	10cm	CG	7/m ²	2L
<i>Hippuris vulgaris</i>	Mare's-tail	Emergent	20cm	CG	7/m ²	2L
<i>Persicaria amphibia</i>	Amphibious Bistort	Emergent	20cm	CG	7/m ²	2L
<i>Ranunculus aquatilis</i>	Common Water-crowfoot	Emergent	10cm	CG	7/m ²	2L
<i>Ranunculus lingua</i>	Greater Spearwort	Emergent	20cm	CG	7/m ²	2L
<i>Sagittaria arifolia</i>	Common Arrowhead	Emergent	30cm	CG	7/m ²	2L
<i>Stuckenia pectinata</i>	Fennel-leaf Pondweed	Emergent	30cm	CG	7/m ²	2L
<i>Callitriche stagnalis</i>	Common Water Starwort	Submergent	20cm	CG	7/m ²	2L
<i>Myriophyllum demersum</i>	Common Hornwort	Submergent	30cm	CG	7/m ²	2L
<i>Fanlitalia arifolia</i>	Water Moss	Submergent	20cm	CG	7/m ²	2L
<i>Myriophyllum spicatum</i>	Spiked Water Milfoil	Submergent	10cm	CG	7/m ²	2L
<i>Sagittaria arifolia</i>	Water Warden	Submergent	30cm	CG	7/m ²	2L
<i>Potamogeton zosterifolius</i>	Curtled Pondweed	Submergent	30cm	CG	7/m ²	2L
<i>Stratiotes aloides</i>	Water Soldier	Submergent	20cm	CG	7/m ²	2L

Category	Supplier	Product
Species Rich Lawn	Emorsgate Seeds	EL1 Flowering Lawn Mix, OEA.
Meadow / Wildflower (general)	Emorsgate Seeds	EM2 Standard General Purpose Meadow Mix, OEA
Marginal / SuDS	Emorsgate Seeds	EM8 Meadow Mix for Wetlands, OEA.
Reinforced Grass Access Track	Barenbrug UK	E2 Tough Turf, OEA.

Generally:
All soft landscape operations are to be undertaken during the first available planting season, immediately following completion of all construction operations, or in accordance with any planning approval/conditions, whichever is most applicable.

All setting out of trees, shrubs and grass within new soft landscape areas shall be inspected and approved by the Landscape Architect prior to planting operations commencing.

Existing topsoiled areas to be subsoil cultivated to a minimum depth of 450mm (where services allow) prior to topsoil cultivation to a minimum depth of 350mm in all areas.

Remove all deleterious arisings from above cultivations, together with all surface debris currently on site.
In all new topsoil areas, excavate to 450mm minimum depth for planting areas, removing all excavated subsoil from site.
Cultivate a further 250mm to relieve compaction in all areas.

Replace above excavations with approved quality topsoil to the following minimum depths:

Planting areas	-	450mm

Finished levels of topsoil after settlement to be 50mm above adjacent hard paved areas in all instances.

Landscape SuDS features (basin/s and swale/s) to be kept free of Topsoil. Low-nutrient / Subsoil to be used as primary growing medium (200mm depth). Further specification required following detailed design of levels and drainage.

Specification	Girth	Size	Depth
Transplants	-	300x300mm	300mm

Feathered	=	600x600mm	600mm
Standard	8-10cm	600x600mm	600mm
Selected Std	10-12cm	750x750mm	600mm
Heavy Std	12-14cm	900x900cm	750mm
Extra Heavy Std	14-16cm to 18-20cm	1000x1000mm	750mm

Tree stakes - trees to be double staked with 75mm x 1800mm pressure treated tree stakes secured to cross member with tree belt.

Backfill - backfill pits with approved quality topsoil, 20% approved peat free compost, Enmag Controlled Release Fertiliser and Broadleaf P4 (application rates in accordance with manufacturer's instructions)

Watering - trees should be watered once a month regardless of weather conditions during the defects liability period in the growing season to ensure that the trees are encouraged to develop the root system.

Water at the following rates:

75 litres per tree for 10-12cm girth trees & below
120 litres per tree for 12-14cm, 14-16cm & 16-18cm girth trees
150 litres per tree for 18-20cm girth & above

In periods of drought, additional watering should be carried out in sufficient quantities to ensure and maintain healthy growth and establishment.

Rabbit guards - all transplants and container grown plants to be protected with tree shelter guards supported by timber stake (or similar approved)

Tree Root Barriers - to be installed as close to the possible to service utility locations in order to maximise the rooting area. Installation to be in accordance with the manufacturer's specification. Precise locations for barriers and barrier depths to be determined on site (dependent upon service positions and depths) and to be reviewed by the Engineers at tender and construction stage, considering as-installed service alignments, easements and paving construction.

Shrub / Perennial Planting:

As scheduled, container grown unless otherwise specified and to be planted evenly spaced at the densities indicated.
Backfill - backfill pits with approved quality topsoil (to BS 3882:2015 Topsoil), Enmag Control Release Fertiliser and Broadleaf P4 (application rates in accordance with manufacturer's instructions).
Watering - water all plants thoroughly immediately following planting using a fine rose sprinkler.
Mulch - where agreed, supply and spread minimum 50mm thick, thoroughly composted bark or equivalent organic mulch.

Marginal / Wetland Planting
Marginal species plants to be planted to base of SUDs drainage area, with bankside species planted predominantly out with of the swale base. Planting subject to confirmation of flows, inundation period and inundation frequency through detailed design of drainage system. Soils to match SUDs requirements. Where permanently wet 150mm locally sourced pond mud to be added above liner or base level of pond to allow establishment of healthy plants.

Grassed Areas:
Amenity grass seed where required as per schedule, at a rate of 50g/m².
Native wildflower grassed areas to be seeded as per schedule, at a rate of 5g/m².
Native wildflower grassed wetland / SuDS areas to be seeded as per schedule, at a rate of 5g/m².
Species selection subject to ecological / soil assessment
Finished levels of topsoil after settlement are to be 50mm above adjacent hard paved areas in all instances.

Compliance:

- Refer to the following British Standards for more detailed:
- Recommendations for transplanting rootballed trees BS 4043
 - Code of practice for general landscape operations BS4428
 - Specifications for topsoil BS 3882:2015 Topsoil
 - Nursery Stock BS 3936 part 1.

NOTES

1. Dimensions in mm unless otherwise stated, and to be verified on site.
2. All measurements shall be taken in accordance with the project Landscaping Architect's instructions.
3. Match patterns and joints are indicative only unless otherwise stated.
4. Information outside site boundary shown for contextual purposes only.
5. The Contractor shall ensure that the project Landscaping Architect prior to commencement of site works.
6. The Contractor shall read in conjunction with the O&M Engineering and O&M Engineering documents.
7. NISB-ONC-XXX-DR-L-0001, Landscape Site Plan
8. NISB-ONC-XXX-DR-L-0002, Landscape Plan
9. NISB-ONC-XXX-DR-L-0003, Landscape Plan
10. NISB-ONC-XXX-DR-L-0004, Landscape Plan
11. All other relevant information from the wider design team.
12. The Contractor shall ensure that the project Landscaping Architect prior to commencement of site works. Contractor is to verify all levels and dimensions against site survey information.
13. All proprietary products to be installed in accordance with manufacturer's instructions.
14. Refer to other consultants' documentation for the following information:
 - (a) General Details
 - (b) Base Course and/or sub-base specification
 - (c) Waterproofing of any relevant
 - (d) Drainage design and associated infrastructure
 - (e) Mechanical and/or electrical installation
 - (f) Location of existing and proposed utilities
15. The Contractor shall ensure that the project Landscaping Architect prior to commencement of site works.
16. Any proposed deviation from the design specification and/or plant schedule to be agreed with the project Landscaping Architect prior to ordering.
17. The Contractor shall ensure that the project Landscaping Architect prior to ordering. It is not reproduced, retained or disclosed to any unauthorised person, either wholly or in part, without the prior written consent of the project Landscaping Architect.