



Mix 01 - Ground Cover/ Low level Species							
Shrubs & Herbaceous perennials							
Ref	Species	Size	Pot (litre)	Habit	Density	Mix	Total no
AHJ	Anemone 'Honorine Jobert'	--	2Lt	--	3	5.0%	14
Cp	Cytisus praecox	40 - 60	3Lt	Bushy/ 7	3	15.0%	43
Ec	Erica carnea 'Springwood White'	--	2Lt	--	9	5.0%	43
Hm	Hypericum x hidcoteense 'Hidcote'	20 - 30	2Lt	Bushy/ 3	5	25.0%	119
Ln	Lonicera nitida 'May Green'	20 - 30	3Lt	--	4	15.0%	57
Grasses & Ferns							
Cm	Carex morrowii 'Ice Dance'	--	2Lt	--	7	25.0%	166
Ps	Polystichum setiferum 'Bevis'	--	2Lt	--	3	10.0%	28

Mix 02 - Aquatic mix							
Shrubs & Perennials							
Ref	Species	Size	Pot (litre)	Habit	Density	Mix	Total no
Ip	Iris pseudacorus	--	9cm pot	--	8	20.0%	232
Ra	Ranunculus aquatilis	--	230 - 250 RT	--	8	5.0%	58
Grasses & Ferns							
Cpa	Carex paniculata	--	9cm pot	--	8	15.0%	174
Cps	Carex pseudocyperus	--	9cm pot	--	8	20.0%	232
Gn	Glyceria notata	--	230 - 250 RT	--	8	10.0%	116
Gf	Glyceria fluitans	--	230 - 250 RT	--	8	5.0%	58
Pa	Phalaris arundinacea	--	230 - 250 RT	--	8	10.0%	116
Se	Sparganium erectum	--	230 - 250 RT	--	8	15.0%	174

Mix 03 - Burn bank shrub planting							
Shrubs & Herbaceous perennials							
Ref	Species	Form	Age	Root	Density	Mix	Total no
Ca	Corylus avellana	Transplant	1 + 2	BR	1	25.0%	51
Cm	Crataegus monogyna	Feathered	2+	BR	1	25.0%	51
la	Ilex aquifolium	80 - 100cm	--	10 - 12Lt container	1	30.0%	61
Psp	Prunus spinosa	Transplant	1 + 1	BR	1	20.0%	41

Tree Planting Schedule							
Ref	Species	Type/ Size	Girth (cm)	Clear Stem (Min cm)	Height (Min cm)	Root Type	Total
Ac	Acer campestre 'Streetwise'	EHS	14 - 16	200	400 - 450	Root Ball	7
Ap	Acer pseudoplatanus	EHS	14 - 16	200	400 - 450	Root Ball	10
Ah	Aesculus hippocastanum	EHS	14 - 16	20	400 - 450	Root Ball	6
Ag	Alnus glutinosa	Multi Stem	--	--	200 - 250	Root Ball	2
Bp	Betula pendula	Multi Stem	--	--	200 - 250	Root Ball	6
Ms	Malus sylvestris	EHS	14 - 16	200	400	Root ball	3
Ps	Pinus sylvestris	Feather (5x)	--	--	250 - 350	Root ball	7
P'SB'	Prunus 'Sunset Boulevard'	EHS	14 - 16	200	400 - 450	Root Ball	4
Qp	Quercus petraea	EHS	18 - 20	200	450	Root ball	4
Sa	Sorbus aucuparia	EHS	14 - 16	200	400 - 450	Root Ball	6

Hedge Planting Schedule								
Ref	Species	Size (cm)	Form notes	Age	Root Type	Density No. per lm	Planting notes	Total
Cb	Carpinus betulus	80 - 100	Single leader	1+2	Bare root	6	Double staggered row	317
Mixed Hedge Planting Schedule								
%	NMH Species	Form	Age/ Size	Height cm	Root Condition	Density No. per lm	Planting notes	Total
30%	Corylus avellana	Transplant	1+1	80 - 100	BR	5	Double staggered row	1103
40%	Crataegus monogyna	Transplant	1+2	80 - 100	BR	5	Double staggered row	1470
15%	Prunus spinosa	Branched	1+2	90 - 120	BR	5	Double staggered row	551
15%	Rosa canina	Transplant	1+2	60 - 80	BR	5	Double staggered row	551

Soil Requirements Information:

Soil movement to happen during appropriate conditions of weather and soil moisture, and with suitable machinery, in line with BS 3882: 2015. Stripping of surplus topsoil/ subsoil as required from built up parts of the site will be stored within the site boundary on bunds of 1m maximum height and battered to an appropriate angle of repose, for use on open space and soft landscape areas. Soil bunds should be marked with signage to confirm the material being stockpiled for future use. Material which is required to be removed from site will be transferred to a licensed waste facility.

Any areas that are to become planting areas and that do not require regrading/ level changes should not be stripped of topsoil and should be protected during construction works. This avoids unnecessary damage to existing soil structure through compaction. Protective Heras fencing and signage should be indicated on a plan to exclude these areas from construction traffic and material storage during construction. The development levels have been designed to maximise areas of undisturbed soil and reduce the amount of movement/ imported material.

Contractor to be responsible for carrying out earthworks in line with best practice, relevant British Standards, minimising double handling, disturbance of good quality soils, preventing damage through compacting and contamination during construction and retaining quality soils on sites for use in the future landscape areas.

Vegetation stripping and ground preparation works should not be undertaken during periods of high rainfall or when soils are waterlogged to reduce erosion and runoff and avoid increasing sedimentation potential. Soil stockpiles should not be left exposed for long periods of time and should be located a suitable distance from identified water features, ditches and drains to avoid sediment runoff. If bunds are required to be exposed for long periods of time seeding to be considered to help reduce sedimentation. Cut off ditches / bunding to be placed around the perimeter of bunds to retain runoff contaminated with sediment. Soils for reuse to be stockpiled onsite or placed in windrows around the works.

Planting notes generally:

- Areas for planting to be cleared of invasive weeds by hand, mechanical or chemical means. Herbicide pre-treatment with approved Glyphosate only to be used for invasive weeds. Where herbicides are used extreme care should be taken to avoid damage to surrounding grass, avoiding spray drift.
- Soil to be checked to ensure that it meets the standards set out in BS 3882: 2015 Specification for Topsoil. If it does not it should be replaced with the appropriate quality material, or the Landscape Architect must be advised. (Note: It is the responsibility of the contractor to ensure that he is planting into the correct quality of material)
- If new topsoil is required, the subsoil base should be fully broken up to ensure adequate drainage. All planting areas to be initially checked for quality of soil and risk of flooding. If there is a problem with either of these, remedial actions shall be taken.
- (Note: It is the responsibility of the contractor to ensure that he is planting into the correct quality of material and not into waterlogged soil).
- The plants shall be planted so that the finished topsoil level is at the nursery level on the stem of the plant.
- All work to be carried out in accordance with best horticultural practice.
- Planting to be pruned up to twice per year, in Spring and Autumn depending on the species, to maintain their natural shape and habit. Any damaged, diseased, or broken branches should be removed.

Shrub Planting areas:

- The whole planting bed is to be carefully set out and the bed should be inspected after the subsoil base is broken up and before topsoil cultivation for any signs of flooding. If there are signs and these cannot be resolved with minor local re-grading the Landscape Architect should be advised. (Note: It is the responsibility of the contractor to ensure that he is not planting into a waterlogged bed).
- Planting should not be undertaken below 2 degrees centigrade, or when the ground is snow covered or frozen.
- The topsoil should be cultivated throughout the bed to a depth of 300mm. It should be left with a central ridge 150mm above the edges of the bed.
- When the bed has been fully cultivated and formed, planting holes shall be dug 150mm

- wider than the root spread. Bare-root plants shall have the roots carefully teased out and pot-grown plants shall have the roots carefully loosened from the soil. 2 to 2.5litres, depending on the size of the plant, of Fison's Peat-Free Planting Compost, or similar approved, shall be worked into the backfill.
- The plants shall be well firmed in, and, after planting, a slow acting fertiliser shall be carefully worked into the top 50mm of soil round each plant taking care to avoid contact with the stem.
- Immediately after planting the whole bed shall be well watered in.
- The shrub beds are to be kept clear of weeds, either mechanically or by hand. Use of an approved herbicide only to be used for invasive weeds.

Tree Planting:

- Trees shall be planted at the appropriate season depending on root-grown or bare-root, and in line with BS 8545:2014 Trees: from nursery to independence in the landscape.
- Tree pits are to be dug not less than 1m cube and not smaller than 250mm larger than the overall root spread. Care is to be taken to ensure that all sides are permeable and have not been "polished", and that all pits are free draining with 50mm of washed round pea gravel to the base of the tree pits.
- A pressure-treated timber stake 75 x 75mm shall be used. It shall extend 500mm above the finished soil level, with a proprietary tie set 100mm below the top of the stake.
- One tie shall be used on standard and feathered trees up to 2m high. Two will be required for Heavy and Extra-Heavy Standard trees up to 18cm girth. Above this three will be required unless an underground puying system is specified.
- Backfill for the tree pits is to be 20% Peat-free Compost, Fison's or similar approved.
- The backfill is to be a raised mound at the top with the centre 150mm above the edges. Care is to be taken to ensure that the finished backfill level is at the nursery level on the tree and that level is at the centre of the mound 150mm above the edges of the pit when the tree has been well firmed in.
- On completion of the planting the tree is to be well watered in with no less than 45 litres of water. Thereafter it should be watered as defined on the maintenance schedules and as required, following periods of any more than three consecutive hot, dry days, until the tree is fully established.

Management & Maintenance Schedules													
ESTABLISHMENT MAINTENANCE: First two years undertaken by selected contractor;													
Operations	Months											Operations per year	
	J	F	M	A	M	J	J	A	S	O	N		D
Operations													No of operations
GENERAL REQUIREMENTS													
Leafing out inspection, plant material not leafed out shall be replaced by the contractor at his own cost during plant replacement operations						√							1
100% of plant material to be present at handover													
90% vegetation free 1m circle centred on each plant to be maintained around planting including mulch cover during establishment period & for extent of contract duration			√	√	√	√	√	√	√	√	√	√	8
Hand weed inside shelters								√					2
Check stakes, ties and guards, adjust as required												√	2
Water at frequency to ensure establishment and survival				√	√	√	√	√	√	√	√	√	As required
Firm plants & keep vertical as required												√	2
Clear plant stations and planting areas of litter				√	√	√	√	√	√	√	√	√	As required
Check all plants for signs of pest, disease or nutrient deficiency & seek expert advice as required												√	2 or as required
Plant replacements: planting that has failed or is damaged by herbicide application should be replaced during the next growing season												√	1 or as required
Pruning: all planting material to be checked for damage to branches, shoots & bark. All dead, damaged branches/shoots or epicormic growth to be cleanly cut back to sound, undamaged wood. All tree works to be undertaken in accordance with BS 3998: 1989. Prunings & trimmings to be removed from site												√	1 or as required
Remove plant shelters, to be confirmed by Landscape Architect												√	TBC
INDIVIDUAL TREE PLANTING													
Check tree anchors at intervals shown and after high winds & adjust as required												√	2 or as required
Check stakes & ties; replace loose, broken or decayed items to original specification. Adjust, refix or replace loose or defective ties, allowing for growth and to prevent chafing. - Where chafing has occurred, reposition, or replace ties to prevent further chafing												√	1 or as required
Check irrigation tubes/caps												√	1
NATIVE MIXED HEDGING													
Trim to 60cm height after planting, maintain at 1m with slight batter to top, trim any rangy branches to 60cm width												√	2
AMENITY GRASS SEEDING													
First cut at 70cm height, thereafter, cut to 40mm height, leave arisings in-loco.												√	2
Overseed any gaps in sward, apply spring fertiliser v 1												√	1
WILDFLOWER/GRASSES SEEDING													
Cut at 150mm height to 50mm height, remove arisings after each cut (year 2: 2 cuts per year - spring & autumn)												√	4 for first year/ 2 thereafter
LITTER PICKING												√	10
GENERAL MAINTENANCE: From years 2 to 10; After 10 years we suggest the maintenance regime is revised to ensure best practice and relevance to the stage of development of the landscape.													
Operations													No of operations
GENERAL REQUIREMENTS													
90% vegetation free 1m circle centred on each plant to be maintained around planting including mulch cover.				√	√	√	√	√	√	√	√	√	4
Check stakes, ties and guards, adjust as required												√	2
Firm plants & keep vertical as required												√	2
Check all plants for signs of pest, disease or nutrient deficiency & seek expert advice as required												√	2 or as required
Plant replacements: planting that has failed or is damaged by herbicide application should be replaced during the next growing season												√	1 or as required
Pruning: all planting material to be checked for damage to branches, shoots & bark. All dead, damaged branches/shoots or epicormic growth to be cleanly cut back to sound, undamaged wood. All tree works to be undertaken in accordance with BS 3998: 1989. Prunings & trimmings to be removed from site												√	1 or as required
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Check irrigation tubes/caps												√	1
NATIVE MIXED HEDGING													
Maintain at 1m with slight batter to top, trim any rangy branches to 60cm width												√	2
AMENITY GRASS SEEDING													
Cut to 40mm height, leave arisings in-loco.												√	2
Re-seed any gaps in sward, apply spring fertiliser												√	1
WILDFLOWER/GRASSES SEEDING													
Cut at 150mm height to 50mm height, remove arisings after each cut.												√	1
LITTER PICKING												√	10

Revision	Date	Description	Initials
P01	06.12.23	Issued for Approval	HL

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 Project Name: Haulage & Waste Facility, Shillford
 Client: J&M Murdoch
 Title: Planting Schedules & Management & Maintenance Plan & Schedules

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