Plant specification and schedule



Project: Rheda Park Phase 2

Client: KCS Agriculture Ltd

Document no: 17

Revisions	Date	Notes
0	11.11.2021	original document

The below description of plant material and soft landscape operations is for the purpose of planning application only, and is not a substitute for the more detailed specification which would be required for the purpose of commercially tendering, implementing, establishing and maintaining a soft landscape contract.

Schedule of trees to be planted in field to north of site Winter 2021

see planting plan for locations					RB = Rootball	ed								
					BR = bare roo	t and bagged								
C x = Container grown and size Px = Pot and diameter														
					Root protection	Number of breaks or		Planting	Totals fo each species					
Latin and common name	Form or habit	Age	Height (cm)	Girth (cm)	and size	branches	% of mix	density / m ²	opeeree					
Aesculus hippocastanum (Horse Chestnut)	Heavy Standard	Зx	300 to 425	12 to 14	BR RB or C45	5 6 or 7	n/a	n/a	1					
Betula pendula (Birch)	Select Standard	2x	300 to 350	10 to 12	BR or C30	4 5 or 7	n/a	n/a	1					
Castanea sativa (Sweet Chestnut)	Heavy Standard	3x	300 to 425	12 to 14	BR RB or C45	5 6 or 7	n/a	n/a	1					
Fagus sylvatica Beech)	Heavy Standard	3x	300 to 425	12 to 14	BR RB or C45	5 6 or 7	n/a	n/a	1					
llex aquifolium (Holly)		n/a	80 -100	n/a	C2	n/a	n/a	n/a	3					
Pinus sylvestris (Scots Pine)		4X	125 - 150	n/a	RB	n/a	n/a	n/a	3					
Prunus avium (Wild Cherry)	Select Standard	2x	300 to 350	10 to 12	BR or C30	4 5 or 7	n/a	n/a	1					
Quercus petraea (Sessile Oak)	Heavy Standard	Зx	300 to 425	12 to 14	BR RB or C45	5 6 or 7	n/a	n/a	2					
							n/a	n/a						
	•	•	•	•	•	•	•	Total	13					

Schedules and specification

Individual Trees									
see planting plan for locations					RB = Rootball	ed			
					BR = bare roo	t and bagged			
					C x = Contain	er grown and s	size Px = Pot ar	nd diameter	Totals for
						Number of			each
					• • • • • • •	breaks or		Planting	species
Latin and common name	Form or habit	Age	Height (cm)	Girth (cm)	and size	branches	% of mix	density / m ²	•
Acer pseudoplatanus (Sycamore)	Select Standard	2x	300 to 350	10 to 12	BR or C30	4 5 or 7	n/a	n/a	2
Aesculus hippocastanum (Horse Chestnut)	Heavy Standard	3x	300 to 425	12 to 14	BR RB or C45	5 6 or 7	n/a	n/a	1
Amelanchier lamarckii (Snowy Mespilus)	Select Standard	2x	300 to 350	10 to 12	BR or C30	4 5 or 7	n/a	n/a	2
Amelanchier alnifolia Obelisk (columnar Snowy Mespilus)	Select Standard	2x	300 to 350	10 to 12	BR or C30	4 5 or 7	n/a	n/a	6
Betula pendula (Birch)	Select Standard	2x	300 to 350	10 to 12	BR or C30	4 5 or 7	n/a	n/a	7
Carpinus betulus Frans Fontaine (columnar Hornbeam)	Select Standard	2x	300 to 350	10 to 12	BR or C30	4 5 or 7	n/a	n/a	4
Castanea sativa (Sweet Chestnut)	Heavy Standard	3x	300 to 425	12 to 14	BR RB or C45	5 6 or 7	n/a	n/a	1
Crataegus persimilus Prunifolia (Broadleaf Cockspur Thorn)	Select Standard	2x	300 to 350	10 to 12	BR or C30	4 5 or 7	n/a	n/a	3
Fagus sylvatica(Beech)	Heavy Standard	Зx	300 to 425	12 to 14	BR RB or C45	5 6 or 7	n/a	n/a	2
Fagus sylvatica Dawk (Columnar Beech)	Select Standard	2x	300 to 350	10 to 12	BR or C30	4 5 or 7	n/a	n/a	2
Ilex aquifolium (Holly)		n/a	80 -100	n/a	C2	n/a	n/a	n/a	8
Malus sylvestris (Common Wild Crabapple)	Select Standard	2x	300 to 350	10 to 12	BR or C30	4 5 or 7	n/a	n/a	3
Prunus avium (Wild Cherry)	Select Standard	2x	300 to 350	10 to 12	BR or C30	4 5 or 7	n/a	n/a	9
Prunus padus (Bird Cherry)	Select Standard	2x	300 to 350	10 to 12	BR or C30	4 5 or 7	n/a	n/a	4
Quercus petraea (Sessile Oak)	Heavy Standard	Зx	300 to 425	12 to 14	BR RB or C45	5 6 or 7	n/a	n/a	2
Sorbus aria Lutescens (Whitebeam)	Select Standard	2x	300 to 350	10 to 12	BR or C30	4 5 or 7	n/a	n/a	3
Sorbus aucuparia (Rowan)	Select Standard	2x	300 to 350	10 to 12	BR or C30	4 5 or 7	n/a	n/a	8
Sorbus aucuparia Streetwise (columnar Rowan)	Select Standard	2x	300 to 350	10 to 12	BR or C30	4 5 or 7	n/a	n/a	3
							n/a	n/a	
	•				•	•	•	Total	70

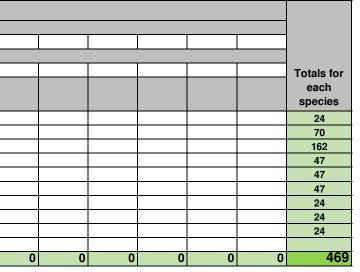
Specimen / clipped tre	es and shrubs								
see planting plan for locations					RB = Rootbal	led			
					BR = bare roo	ot and bagged			
					C x = Contain	er grown and s	ize Px = Pot ar	nd diameter	Totals for
Latin and common name	Form or habit	Age	Height (cm)	Girth (cm)	Root protection and size	Number of breaks or branches	% of mix	Planting density / m ²	each species
llex aquifolium (Holly)	clipped	4X	125 to 150	n/a	RB	n/a	n/a	n/a	3
Taxus baccata (Yew)	clipped	4X	125 to 150	n/a	RB	n/a	n/a	n/a	3
								Total	6

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Shrub Beds																							
Plant in random groups of 9 - 13					RB = Rootba	alled			Bed reference	ce number													
					BR = bare ro	oot and bagged			1&3	2	4	5	6	7	8	9,10 &11	12	13	14	15	16 1	7 & 18	
					C x = Contai	ner grown and	size Px = Pot a	nd diameter	Bed size(s) i	n m²													
									20	50	55	25	58	35	11	44	23	26	45	14	8	70	Totals for
					Root	Number of		Planting															each
Latin and common name	Form or habit	A	Lisisht (sm)	Cinth (and)	protection	breaks or branches	% of mix	density / m ²															species
TALLER FOR BACK OR CENTRE OF BEDS	Form or habit	Age	Height (cm)	Girth (cm)	and size	branches	% of mix	density / m															0
			60 - 80		010	0.45.0																	v
Aucuba japonica Crotonifolia					C10	3 to 6	n/a	3										25		40			65
Eleagnus x Ebbingei Limelight			60 - 80		C10	3 to 6	n/a	3					45	35									80
Escallonia iveyi			60 - 80		C10	3 to 6	n/a	3														25	
Grisellinia littoralis			60 - 80		C10	3 to 6	n/a	3		50		20		15			30						115
Lonicera nitida			60 - 80		C10	3 to 6	n/a	3					35		35								70
Mahonia media Winter Sun			60 - 80		C10	3 to 6	n/a	3											20			15	35
Prunus Iusitanica			60 - 80		C10	3 to 6	n/a	3					50						45				95
MEDIUM																							0
Euonymus fortunei Emerald Gaiety			40 - 60		C5	3 to 6	n/a	4						35									35
Photinia fraseri robusta Compacta			40 - 60		C5	3 to 6	n/a	4		70													70
Prunus laurocerasus Otto Luyken			40 - 60		C5	3 to 6	n/a	4			40	70	30				20		50		25		235
Viburnum mariesii Plicatum			40 - 60		C5	3 to 6	n/a	4														45	45
LOW GROUND COVER PLANTS																							0
Cotoneaster procumbens Queen of Carpets			30 - 40		C2	3 to 5	n/a	5			45	65				60						75	
Euonymus fortunei Darts Blanket			30 - 40		C2	3 to 5	n/a	5	100				50			60							210
Geranium Rozanne			20 - 30		C1	3 to 5	n/a	5														20	20
Hedera colchica Dentata Variegata			20 - 30		C1	3 to 5	n/a	5		100						60			40				200
Pachysandra terminalis			20 - 30		C1	3 to 5	n/a	5										55					55
Rosa spinosissima			30 - 40		C2	3 to 5	n/a	5														95	95
Saxifraga urbium			20 - 30		C1	3 to 5	n/a	5														20	
				Perce	ntages and	d bed totals	5		100	220	85	155	210	85	35	180	50	80	155	40	25	295	1715

Native perimeter hedge	rows A (55m) ai	nd N (325n	n) = 380 lir	ו m.								
see planting plan for locations		-			RB = Rootba	alled						
					BR = bare ro	ot and bagged						
C x = Container grown and size Px = Pot and diameter												
Latin and common name	Form or habit	Age	Height (cm)	Girth (cm)	Root protection and size	Number of breaks or branches	% of mix	Plants / linear metre	Totals fo each species			
Corylus avellana	Transplant	1+1	n/a	40-60	BR		5%	5	95			
Crataegus monogyna (hawthorn)	Transplant	1+1	n/a	40-60	BR		50%	5	950			
Fagus sylvatica (beech)	Transplant	1+1	n/a	40-60	BR		10%	5	190			
llex aquifolium (holly)	-	-	n/a	40-60	3L		10%	5	190			
Lonicera periclymenum	-	-	-	20-30	2L		5%	5	95			
Prunus padus	Transplant	1+1	n/a	40-60	2L		5%	5	95			
Prunus spinosa (blackthorn)	Transplant	1+1	n/a	40-60	BR		5%	5	95			
Rosa canina	Transplant	1+1	n/a	40-60	BR		5%	5	95			
Vibrunum opulus	Transplant	1+1	n/a	40-60	BR		5%	5	95			
						Total	100%					
								Total	1900			

Semi-native Hedges																	
					RB = Rootba	lled			Reference I	number							
					BR = bare roo	ot and bagged			D	Е	F	I					
					C x = Contair	ner grown and s	size Px = Pot a	and diameter	Lengths								
									20	12	25	35					
					Root protection	Number of breaks or		Plants /									
Latin and common name	Form or habit	Age	Height (cm)	Girth (cm)	and size	branches	% of mix	linear metre									
Corylus avellana	Transplant	1+1	n/a	40-60	BR		5%	5	5.0	3.0	7.0	9.0					
Cotoneaster lacteus			60 - 80		C10		15%	5	15.0	9.0	19.0	27.0					
Crataegus monogyna (hawthorn)	Transplant	1+1	n/a	40-60	BR		35%	5	35.0	21.0	44.0	62.0					
Escallonia iveyi			60 - 80		C10		10%	5	10.0	6.0	13.0	18.0					
Fagus sylvatica (beech)	Transplant	1+1	n/a	40-60	BR		10%	5	10.0	6.0	13.0	18.0					
Griselinia littoralis			60 - 80		C10		10%	5	10.0	6.0	13.0	18.0					
llex aquifolium (holly)	-	-	n/a	40-60	3L		5%	5	5.0	3.0	7.0	9.0					
Prunus padus	Transplant	1+1	n/a	40-60	2L		5%	5	5.0	3.0	7.0	9.0					
Vibrunum opulus	Transplant	1+1	n/a	40-60	BR		5%	5	5.0	3.0	7.0	9.0					
		•	•	Percer	ntages and	bed totals	100%	6	100	60	130	179	0	0	0	0	



Native hedges between	dwellings																					
					RB = Rootba	alled			Reference r	number												
					BR = bare ro	ot and bagged			G	н	J	к	L	М	0	Р	Q	R				
					C x = Contai	ner grown and s	ize Px = Pot a	nd diameter	Lengths													
									25	15	15	18	13	8	8	12	16	12				Totals for
					Root	Number of		Plants /														each
Latin and common name	Form or habit	Age	Height (cm)	Girth (cm)	protection and size	breaks or branches	% of mix	linear metre														species
Corylus avellana	Transplant	1+1	n/a	40-60	BR		5%	5	7.0	4.0	4.0	5.0	4.0	2.0	2.0	3.0	4.0	3.0				38
Crataegus monogyna (hawthorn)	Transplant	1+1	n/a	40-60	BR		50%	5	63.0	38.0	38.0	45.0	33.0	20.0	20.0	30.0	40.0	30.0				357
Fagus sylvatica (beech)	Transplant	1+1	n/a	40-60	BR		10%	5	13.0	8.0	8.0	9.0	7.0	4.0	4.0	6.0	8.0	6.0				73
Ilex aquifolium (holly)	-	-	n/a	40-60	3L		10%	5	13.0	8.0	8.0	9.0	7.0	4.0	4.0	6.0	8.0	6.0				73
Lonicera periclymenum	-	-	-	20-30	2L		5%	5	7.0	4.0	4.0	5.0	4.0	2.0	2.0	3.0	4.0	3.0				38
Prunus padus	Transplant	1+1	n/a	40-60	2L		5%	5	7.0	4.0	4.0	5.0	4.0	2.0	2.0	3.0	4.0	3.0				38
Prunus spinosa (blackthorn)	Transplant	1+1	n/a	40-60	BR		5%	5	7.0	4.0	4.0	5.0	4.0	2.0	2.0	3.0	4.0	3.0				38
Rosa canina	Transplant	1+1	n/a	40-60	BR		5%	5	7.0	4.0	4.0	5.0	4.0	2.0	2.0	3.0	4.0	3.0				38
Vibrunum opulus	Transplant	1+1	n/a	40-60	BR		5%	5	7.0	4.0	4.0	5.0	4.0	2.0	2.0	3.0	4.0	3.0				38
									0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				0
									0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0						0
				Percei	ntages and	d bed totals	100%		131	78	78	93	71	40	40	60	80	60	0	0	0	0 731

Establishment regime

Generally

Avoid the use of herbicides and pesticides - rely on manual, natural or organic measures wherever possible. Do not use peat-based products. All plants shall follow the National Plant Specification All plants shall be fully labelled with supplier details, full botanical name, numbers and specification.

Avoid the use of plastics for tree shelters etc.

Year 1 establishment (seeding and planting year)

GROUND PREPARATION Clear ground of all visible weeds, roots and stones with a diameter greater than 50mm Cultivate ground to full depth of topsoil Ensure topsoil depths are as follows: * for amenity grass 150mm deep after firming and settling * for shrub areas 450mm deep after firming and settling * for tree planting pits, 1m³ with bases of pits broken up to allow free drainage * for hedge and hedgerow trenches, 500mm wide by 500mm deep, with base of trench broken up to allow free drainage Ensure finished topsoil levels are as follows (after settlement and allowing for mulches): above ajoining hard surfaces: 25mm * below dpc of adjoining buildings: not less than 150mm * above adjacent to grass areas: 50mm * adjoining soil areas: marry in Allow fallow period before undertaking planting and seeding, and carry out final weed clear before those operations Any imported topsoil shall be in accordance with BS 3882 Handle topsoil only in dry conditions.

SHRUB PLANTING

Carry out planting between November and March, inclusive Ensure the surface is free of stones, weeds and litter. Wet the soil to the full depth of topsoil, ensuring that surface is not unduly disturbed. Incorporate soil ameliorant, conditioner and fertiliser in accordance with manufacturer's instructions, to a depth of 150mm Ensure shrubs are in good condition, sturdy, healthy and vigorous without elongated shoots, and with balanced root and shoot systems. Plant shrubs in positions and drifts as indicated on planting plan, at the correct densities, avoiding plants being set out in straight lines or grids. Protect shrubs with shelters and stakes Protect new shrub planting in areas vulnerable to short cuts with chestnut pale fencing Immediately after planting, water thoroughly without displacing plant or growing medium. Refirm soil afterwards

TREE PLANTING

Mulch around the base of shrubs

Carry out planting between November and March, inclusive Ensure the surface is free of stones, weeds and litter. Wet the soil to the full depth of topsoil, ensuring that surface is not unduly disturbed. Incorporate soil ameliorant, conditioner and fertiliser in accordance with manufacturer's instructions, to the full depth of the tree pit. Ensure trees are in good condition, sturdy, healthy and vigorous without elongated shoots, and with balanced root and branch systems. Prune any branches which are damaged Plant trees in positions as shown on planting plan, modifying as necessary to avoid underground services, haunching, existing tree roots etc. Support and protect trees with double stakes and ties, where possible using short stakes in preference to taller ones Protect new tree planting from grazing with stock proof fence Immediately after planting, water thoroughly without displacing tree or growing medium. Refirm soil afterwards. Mulch around the base of trees to a diameter of 1m. Water regularly for first growing season, especially during drought periods. HEDGE AND HEDGEROW PLANTING Carry out planting between November and March, inclusive Ensure the surface of the trench is free of stones, weeds and litter. Wet the soil to the full depth of topsoil, ensuring that surface is not unduly disturbed. Incorporate soil ameliorant, conditioner and fertiliser in accordance with manufacturer's instructions, to a depth of 150mm Ensure shrubs are in good condition, sturdy, healthy and vigorous without elongated shoots, and with balanced root and shoot systems. Plant in double staggered row at the correct density. Protect hedgerow plants with shelters and stakes Immediately after planting, water thoroughly without displacing plant or growing medium. Refirm soil afterwards. Protect new hedging along garden frontages with chestnut pale fencing to the road-side of hedge Protect hedgerows from cattle with stock proof fence Mulch the full length and width of the hedge/row trench surface.

Suggested 5 year maintenance schedule The below schedule is subject to amendment over the following 10 years to take account of unforseeable circumstances (e.g. new plant health threats, new building development, changes of use etc.) Yellow cells indicate the window of time in which to udertake the operation, not necessarily the number of operations required - see notes for each operation

Operation	January	February	March	April	Мау	June	July	August	Sept.	October	November	December	Notes
General site-wide operations													
Inspect and maintain fencing, paying attention to stock proof and roadside fences													Inspect fences once each winter when foliage does not obscure
Removal of temporary protective fencing													Remove temporary protective fencing during dormant season where the season where season where the season where the season where the season whe
Litter pick													Undertake litter pick once at beginning of winter and once at end
													ondentatio inter pier once at beginning of writer and once at ent
Amenity grass	January	February	March	April	May	June	July	August	Sept.	October	Nov	Dec	
Mowing													First mow of season to be 70mm, thereafter mow fortnighly betw
Mowing of areas with bulbs													As above but delay first mow till approximately July to allow bulb
Thatch and moss removal													Annually if required.
Making good any bare or weed infested areas													Annually if required: re-cultivate ground before sowing seed. Following and the second s
Trim and re-form edges around beds etc													Annually if required.
Application of fertiliser													Two applications annually, April and September. Organic fertilise
													The approach of annuary, April and opportion of a signification
Ground cover and shrubs	January	February	March	April	Мау	June	July	August	Sept.	October	Nov	Dec	
Inspection for plant failures and losses													Annually. For first five years only. After this it is predicted that the
Control and reporting of disease or pests													As identified
Checking of stakes and shelters - replacement													Check at beginning of winter. Unless plant still requires protection
Weed control													Weed once a month or as required during growing season, redu
Plant replacement													Replace plants as early as possible in dormancy season. Follow
Application of fertiliser													One application early spring, using slow release organic fertilise
Pruning and thinning													Annually. For first five years. theareafter every two years. For app
Watering													Water twice monthly between April and October as required for
													Trater times menting setween ripm and seteser as required for
Native and semi native hedgerows	January	February	March	April	Мау	June	July	August	Sept.	October	Nov	Dec	
Inspection for plant failures and losses													Annually. For first five years only. After this it is predicted that the
Control and reporting of disease or pests													As identified
Checking of stakes and shelters - replacement													Check at beginning of winter. Unless plant still requires protection
Weed control													Weed once a month or as required during growing season, redu
Plant replacement													Replace plants as early as possible in dormancy season. Follow
Application of fertiliser													One application early spring, using slow release organic fertilise
Pruning													Prune annually to create dense informal shape to match appear
Watering													Water twice monthly between April and October as required for
Trees	January	February	March	April	Мау	June	July	August	Sept.	October	Nov	Dec	
Inspection for plant failures and losses													Annually. For first five years only. After this it is predicted that tre
Control and reporting of disease or pests													As identified
Checking of stakes and shelters - replacement													Check at beginning of winter. Unless tree still requires protection
Weed control													Keeo grass short around bases of trees with mulch mats, hand
Plant replacement													Replace trees as early as possible in dormancy season. Follow
Application of fertiliser													One application early spring, using slow release organic fertilise
Pruning and thinning													Annually. For first five years. theareafter every two years. For app
Crown lifting for trees close to dwellings.													Suggested precautionary clause for future. First operation only
Watering													Water twice monthly between April and October as required for t
k											-	-	

re fencelines or make repairs difficult.
when no longer needed, predicted to be after approximately 3 years
nd of winter, when deciduous foliage does not impede work.
tween May and Oct to 50mm. Reduce mowing and increase height during drought.
Ib leaves to replenish the plant.
ollow original establishment procedures.
iser.
he planting beds will be fully established and filled.
tion and support remove all stakes and shelters by the end of year 3
ducing frequency as plants fill out and bare ground decreases.
w same measures as for original establishment.
er.
ppearance and plant health (e.g. diseased branches. overcrowding)
r first three years. Beyond three years water only during periods of drought.
he planting beds will be fully established and filled.
tion and support remove all stakes and shelters by the end of year 3
ducing frequency as hedgerow becomes dense and bare ground decreases.
w same measures as for original establishment.
ser.
arance, size and shape of existing surrounding hedgerows. Ongoing.
r first three years. Beyond three years water only during periods of drought.
rees should be established.
on and support remove all stakes and shelters by the end of year 3.
•
r first three years. Beyond three years water only during periods of drought.
d weeding or careful use of weedkiller no greater than 0.5m radius w same measures as for original establishment. ser. appearance and plant health (e.g. diseased branches. overcrowding) y after 5 years. Only to be undertaken to allow light or ease access near doors or window or first three years. Beyond three years water only during periods of drought.