SPECIMEN TREES

Species	Size(cm)	Type	Density	No.
Acer campestre 'Elsrijk'	14-16 cm Girth	EHS RB	AS SHOWN	19
Betula pendula	14-16 cm Girth	EHS RB	AS SHOWN	5
Betula pendula	12-14 cm Girth	HS RB	AS SHOWN	11
Fraxinus excelsior	14-16 cm Girth	EHS RB	AS SHOWN	6
Pyrus 'Chanticeer'	14-16 cm Girth	EHS RB	AS SHOWN	15
Quercus robur	14-16 cm Girth	EHS RB	AS SHOWN	20
Sorbus aucuparia	12-14 cm Girth	HS RB	AS SHOWN	3

NB. Refer to planting Details 1 & 2 on Golder Associates Dwg No. GA/05588358/WHIT/P/002 and outline specification notes.

ORNAMENTAL SHRUBS

Species	Size(cm)	Type	Density (m²)	No.
Berberis atropurpurea 'Nana'	40-60	3Ltr	5	189
Cornus 'Midwinter Fire'	40-60	3Ltr	3	67
Cornus 'White Gold'	40-60	3Ltr	3	57
Lonicera 'Maygreen'	40-60	3Ltr	3	207
Mahonia 'Apollo'	20-30	3Ltr	5	170
Pinus mugo 'Mughus'	30-40	4Ltr	3	21
Photinia 'Red Robin'	40-60	3Ltr	3	31
Potentillia 'Abbotswood'	20-30	3Ltr	5	202
Rosemarinus 'Severn Seas'	30-40	3Ltr	3	33
Spiraea 'Anthonty Waterer'	30-40	3Ltr	3	91
Spiraea 'Firelight'	30-40	3Ltr	3	67
Vinca minor 'Bowles Variety'	20-30	3Ltr	7	358
Vinca minor 'Variegata'	20-30	3Ltr	7	50

NB. Refer to planting Detail 6 on Golder Associates Dwg No. GA/05588358/WHIT/P/002 and outline specification notes.

ORNAMENTAL HEDGEROW

Species	Size(cm)	Type	Spacing	No.
Carpinus betulus	40-60cm	1u1	12 per lin mtr	3670
			TOTAL	3670

NB. Refer to planting Detail 7 on Golder Associates Dwg No. GA/05588358/WHIT/P/002 and outline specification notes.
Species to be planted at 12 per linear metre in a triple staggard row.

ORNAMENTAL MIX (OM)

Species	Size(cm)	Type	Spacing	OM1 No.
				335m²
Betula pendula	200-250cm	Fthd	2.5m centres	55
Ilex aquifolium	40-60cm	2Ltr	1m centres	280
			TOTAL	335

NB. Refer to planting Details 4 & 5 on Golder Associates Dwg No. GA/05588358/WHIT/P/002 and outline specification notes.

WILDFLOWER MEADOW (WF)

Species Mix (Based on MG5 Traditional Hay Meadow)	%	Sowing Rate
Festuca rubra	20	5 grms per m²
Cynosurus cristatus	10	5 grms per m²
Agrostis capillaris	10	5 grms per m²
Anthoxanthum odoratum	10	5 grms per m²
Holcus lanatus	10	5 grms per m²
Carex flacca	5	5 grms per m²
Luzula campestris	5	5 grms per m²
Trifolium pratense	5	5 grms per m²
Centaurea nigra	5	5 grms per m²
Lotus corniculatus	2	5 grms per m²
Lathyrus pratensis	2	5 grms per m²
Prunella vulgaris	2	5 grms per m²
Leucanthemum vulgare	2	5 grms per m²
Leontodon autumnalis	2	5 grms per m²
Agrimonia eupatoria	2	5 grms per m²
Centaurium erythraea	2	5 grms per m²
Hypericum perforatum	2	5 grms per m²
Ranunculus acris	2	5 grms per m²
Plantago lanceolata	2	5 grms per m²
Festuca rubra	2	5 grms per m²

NB. Refer to outline specification notes.

WOODLAND MIX (WM): STANDARD TREES

Species	Size(cm)	Type	Spacing	WM1	WM2	WM3
Acer campestre	250-300cm	Std	4m centres	10	120	120
Betula pendula	250-300cm	Std	4m centres	15	120	120
Fraxinus excelsior	250-300cm	Std	4m centres	20	220	220
Quercus robur	250-300cm	Std	4m centres	20	220	220
Sorbus aucuparia	250-300cm	Std	4m centres	10	120	100
			TOTAL	75	800	780

NB. Refer to planting Detail 3 on Golder Associates Dwg No. GA/05588358/WHIT/P/002 and outline specification notes.
Trees to be planted in random odd numbered groups of 3,5,7 & 9 at an average of 4m centres throughout the woodland transplant mix.

WOODLAND MIX (WM): TRANSPLANTS

Species	Size(cm)	Type	Spacing	WM1	WM2	WM3
				380m²	4130m²	3895m²
Betula pendula	40-60cm	1u1	1m centres	45	505	580
Corylus avellana	40-60cm	1u1	1m centres	30	300	390
Crataegus monogyna	40-60cm	1u1	1m centres	30	300	390
Fraxinus excelsior	40-60cm	1u1	1m centres	65	710	785
Pinus sylvestris	40-60cm	1u1	1m centres	45	505	585
Quercus robur	40-60cm	1u1	1m centres	65	710	785
Sorbus aucuparia	40-60cm	1u1	1m centres	30	300	380
			TOTAL	305	3330	3115

NB. Refer to planting Detail 5 on Golder Associates Dwg No. GA/05588358/WHIT/P/002 and outline specification notes.

AMENITY GRASS SEED MIX (S)

Seed Mix	Sowing Rate
S1:British Seed House A4 Mix	25 grams per m²
S2: British Seed Houses A3 Mix	25 grams per m²

NB. Refer to outline specification notes.
Seed mixes are indicative and are dependant on soil and usage.

AMENITY TURF (T)

Turf
Tillers Arena Amenity grade turf

NB. Refer to outline specification notes.

WOODLAND EDGE MIX (EM): FEATHERED TREES

Species	Size(cm)	Type	Spacing	EM1	EM2	EM3	EM4	EM5	EM6	EM7	EM8	EM9	EM10
Acer campestre	200-250cm	Fthd	4m centres	65	20	25	5	5	5	5	5	5	5
Betula pendula	200-250cm	Fthd	4m centres	75	25	30	5	15	15	10	5	5	5
Crataegus monogyna	200-250cm	Fthd	4m centres	50	15	20	5	10	10	10	5	5	-
Fraxinus excelsior	200-250cm	Fthd	4m centres	85	35	40	10	10	10	15	5	10	5
Sorbus aucuparia	200-250cm	Fthd	4m centres	55	20	25	5	10	10	10	5	5	5
			TOTAL	330	115	140	35	50	50	50	25	35	20

NB. Refer to planting Detail 4 on Golder Associates Dwg No. GA/05588358/WHIT/P/002 and outline specification notes.
Trees to be planted in random odd numbered groups of 3,5,7 & 9 at an average of 4m centres throughout the woodland transplant mix.

WOODLAND EDGE MIX (EM): TRANSPLANTS

Species	Size(cm)	Type	Spacing	EM1	EM2	EM3	EM4	EM5	EM6	EM7	EM8	EM9	EM10
				1645m²	1155m²	1395m²	370m²	500m²	240m²	480m²	255m²	330m²	205m²
Acer campestre	40-60cm	1u1	1m centres	180	175	210	55	75	25	70	40	50	30
Betula pendula	40-60cm	1u1	1m centres	180	175	210	55	75	25	70	40	50	30
Corylus avellana	40-60cm	1u1	1m centres	345	285	345	90	125	50	120	60	80	50
Crataegus monogyna	40-60cm	1u1	1m centres	345	290	350	95	125	50	125	65	85	55
Prunus spinosa	40-60cm	1u1	1m centres	265	230	280	75	100	40	95	50	65	40
			TOTAL	1315	1040	1255	335	450	190	430	230	295	185

NB. Refer to planting Detail 5 on Golder Associates Dwg No. GA/05588358/WHIT/P/002 and outline specification notes.

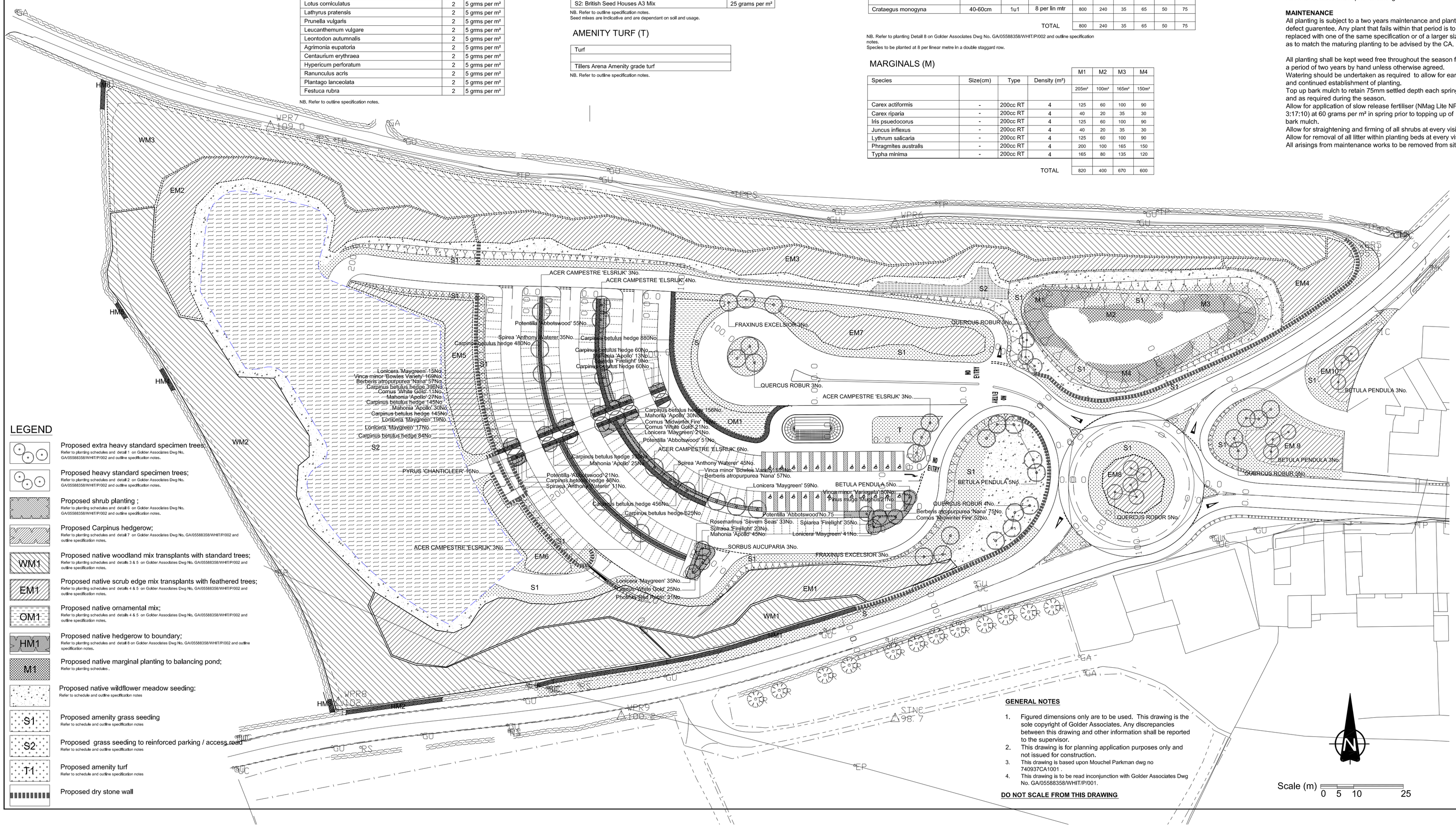
HEDGEROW MIX (HM): TRANSPLANTS

Species	Size(cm)	Type	Spacing	HM1	HM2	HM3	HM4	HM5	HM6
				100 L/m	30 L/m	4 L/m	8 L/m	6 L/m	9 L/m
Crataegus monogyna	40-60cm	1u1	8 per lin mtr	800	240	35	65	50	75
			TOTAL	800	240	35	65	50	75

NB. Refer to planting Detail 8 on Golder Associates Dwg No. GA/05588358/WHIT/P/002 and outline specification notes.
Species to be planted at 8 per linear metre in a double staggard row.

MARGINALS (M)

Species	Size(cm)	Type	Density (m²)	M1	M2	M3	M4
				205m²	100m²	165m²	150m²
Carex actiformis	-	200cc RT	4	125	60	100	90
Carex riparia	-	200cc RT	4	40	20	35	30
Iris psuedocorus	-	200cc RT	4	125	60	100	90
Juncus inflexus	-	200cc RT	4	40	20	35	30
Lythrum salicaria	-	200cc RT	4	125	60	100	90
Phragmites australis	-	200cc RT	4	200	100	165	150
Typha minima	-	200cc RT	4	165	80	135	120
			TOTAL	820	400	670	600



LEGEND

- Proposed extra heavy standard specimen trees; — Refer to planting schedules and detail 1 on Golder Associates Dwg No. GA/05588358/WHIT/P/002 and outline specification notes.
- Proposed heavy standard specimen trees; — Refer to planting schedules and detail 2 on Golder Associates Dwg No. GA/05588358/WHIT/P/002 and outline specification notes.
- Proposed shrub planting ; — Refer to planting schedules and detail 6 on Golder Associates Dwg No. GA/05588358/WHIT/P/002 and outline specification notes.
- Proposed Carpinus hedgerow; — Refer to planting schedules and detail 7 on Golder Associates Dwg No. GA/05588358/WHIT/P/002 and outline specification notes.
- WM1 — Proposed native woodland mix transplants with standard trees; — Refer to planting schedules and details 3 & 5 on Golder Associates Dwg No. GA/05588358/WHIT/P/002 and outline specification notes.
- EM1 — Proposed native scrub edge mix transplants with feathered trees; — Refer to planting schedules and details 4 & 5 on Golder Associates Dwg No. GA/05588358/WHIT/P/002 and outline specification notes.
- OM1 — Proposed native ornamental mix; — Refer to planting schedules and details 4 & 5 on Golder Associates Dwg No. GA/05588358/WHIT/P/002 and outline specification notes.
- HM1 — Proposed native hedgerow to boundary; — Refer to planting schedules and detail 8 on Golder Associates Dwg No. GA/05588358/WHIT/P/002 and outline specification notes.
- M1 — Proposed native marginal planting to balancing pond; — Refer to planting schedules .
- Proposed native wildflower meadow seeding: — Refer to schedule and outline specification notes
- S1 — Proposed amenity grass seeding — Refer to schedule and outline specification notes
- S2 — Proposed grass seeding to reinforced parking / access road — Refer to schedule and outline specification notes
- T1 — Proposed amenity turf — Refer to schedule and outline specification notes
- Proposed dry stone wall

GENERAL NOTES

1. Figured dimensions only are to be used. This drawing is the sole copyright of Golder Associates. Any discrepancies between this drawing and other information shall be reported to the supervisor.
2. This drawing is for planning application purposes only and not issued for construction.
3. This drawing is based upon Mouchel Parkman dwg no 740937CA1001 .
4. This drawing is to be read inconjunction with Golder Associates Dwg No. GA/05588358/WHIT/P/001.

DO NOT SCALE FROM THIS DRAWING

Scale (m) 0 5 10 25

OUTLINE SPECIFICATION NOTES CON'D

SHRUB BEDS

Cultivation / Amelioration / Planting
All planting areas to be cultivated to a full depth of 450mm where possible.
Make up levels with imported approved topsoil where insufficient to make up 450mm depth.
Apply 60grams per m² of NMag Lite NPK 3;17;10 or similar approved to entire shrub beds, cultivate in.
Supply and spread minimum 50mm depth approved mushroom compost or similar approved to all shrub beds, thoroughly cultivate to full depth leaving a level suface and fine planting tilth. Remove all debris, stones etc greater than 50mm and remove from site.

Mulch
Supply and spread 75mm settled depth amenity grade bark mulch (or similar approved) to entire area of shrub beds. Allow for topping up after settlement. Make sure bark mulch is kept away from immediate area to base of shrubs as per the detail.

TURF AREAS

Cultivate area prior to turfing to a depth of 100mm. Remove all stones, debris etc greater than 50mm. Gently consolidate prior to final cultivation.
Apply Scotts Pre seeder fertiliser (or similar approved) NPK 9:7:7 at 70grams per m² prior to final cultivation.
Final cultivation to be undertaken when soil is dry and workable. Cultivate to 25mm removing all clods, stone debris etc greater than 30mm.
Allow for 25mm above adjacent kerb to allow for settlement. Leave a level area with no hollows or bumbs.
Turf area with Tillers Arena (or similar approved) amenity grade turf using accepted horticultural practices.
Avoid walking on turf after completion.
Allow for watering when required to aid early and continued establishment throughout the season.
Allow for establishment prior to cutting.

MAINTENANCE

All planting is subject to a two years maintenance and plant defect guarentee, Any plant that fails within that period is to be replaced with one of the same specification or of a larger size as to match the maturing planting to be advised by the CA.

All planting shall be kept weed free throughout the season for a period of two years by hand unless otherwise agreed.
Watering should be undertaken as required to allow for early and continued establishment of planting.
Top up bark mulch to retain 75mm settled depth each spring and as required during the season.
Allow for application of slow release fertiliser (NMag Lite NPK 3:17:10) at 60 grams per m² in spring prior to topping up of bark mulch.
Allow for straightening and firming of all shrubs at every visit.
Allow for removal of all litter within planting beds at every visit.
All arisings from maintenance works to be removed from site.

GENERAL

ALL PLANTING

All planting is to be carried out during the next available planting season following completion of construction works subject to agreement with North York Moors National Park in order to ensure survival rates and availability of stock.

ALL PLANTING

All trees and shrubs shall be to BS3936 and handled in accordance with BS4428. Sizes as indicated on drawing.
Planting to be carried out in accordance with and as per details shown on the drawing. Regular monitoring of the planting should be carried out, including straightening refirming at every visit.

OUTLINE SPECIFICATION NOTES

NATIVE STANDARD AND FEATHERED TREES

All trees are to be planted in random odd numbered groups of 3,5,7 & 9 throughout the native woodland and scrub edge mix at an average of 4m centres as instructed on site by the CA. Allow for native transplants to be planted between groups of trees. Avoid large regular groups or straight lines. Refer to schedules for numbers.

NATIVE TRANSPLANTS

All native transplant to be planted in-accordance with and as per Detail 4 on Golder Associates Dwg No. GA 06529264_RES_A_001.

NATIVE HEDGEROWS

All native transplant to be planted in-accordance with and as per Detail 3 on Golder Associates Dwg No. GA 06529264_RES_A_001.

All ground to be reinstated to existing levels. All track marks to be made good and reinstated to existing levels.

WILDFLOWER MEADOW

Refer to Wildflower Meadow schedule for list of species.
Wildflower meadow seed to be sown at a rate of 5 grams per m² in early September dependent on weather and ground conditions.
All seed is to be of local provenance.

AMENITY GRASS SEED MIX

BritishSeed Houses A4 Mix (or similar approved)and A3 (refer to schedules for areas) Mix at 25 grams per m² in April - May or Sept dependent on weather and ground conditions.

MAINTENANCE

All planting is subject to a two years maintenance and plant defect guarantee. Any plant that fails within that period is to be replaced with one of the same specification or of a larger size as to match the maturing planting to be advised by the CA.

NATIVE TREES, TRANSPLANTS & HEDGEROW

All planting shall be kept weed free throughout the season for a period of two years. Allow for a 500mm radius weed free area to each transplant and tree throughout the season. Apply an approved translocated herbicide a minimum of three times per season.
All Tubex guards / spiral guards are to be kept free from weed growth throughout the season by hand, removing arisings from site. All build up of soils within guards are to be cleaned out as required.
All guards / ties / stakes are to be checked for damage at every visit or after strong winds.
All guards should be straightened and broken stakes replaced as required.
Tree ties shall be checked for damage or potential rubbing at every visit.
Hedgerows should be' topped' after their second season if required to promote bushy growth. Remove arisings.
Watering should be undertaken as required to allow for early and continued establishment of planting if there is a prolonged period of drought.
All arisings from maintenance works to be removed from site.
All fencing is to be checked for damage at every visit. Allow for restraining and replacing any damage as required.

WILDFLOWER MEADOW

Year 1; Sow in mid to early September. Allow to establish within the following season and cut once(topping growth) in late August to approx 80mm leaving the arisings. Carry out selective herbicide spot treatment of weeds as required.
Year 2: Allow to establish and cut to approx. 80mm in April and late august leaving the arisings.Carry out selective herbicide spot treatment of weeds as required.
Year 3:Allow to establish and cut in mid August, remove arisings afer two weeks.

Rev	Description	Chkd	Appd	Date
A	Width of screen planting to the southern boundary widened. Access road to overflow car park alignment amended.	NR	NR	17 07 08

Client: mouchel — Partnering with :- North Yorkshire County Council

Project: WHITBY PARK & RIDE

Title: PLANTING PLAN

Project No. 08514580139	Checked NR	Scale	AS SHOWN
File No.	Approved NR	Status	APPROVAL
Created By PAT	Date MARCH 2007		
Drawing No. 08514580139.04		Revision	A

Golder Associates
Golder House
Tadcaster Enterprise Park
Station Road
Tadcaster
LEEDS
LS24 9JF
Tel: 01937 837800
Fax: 01937 837850
E-mail: leeds@golder.com