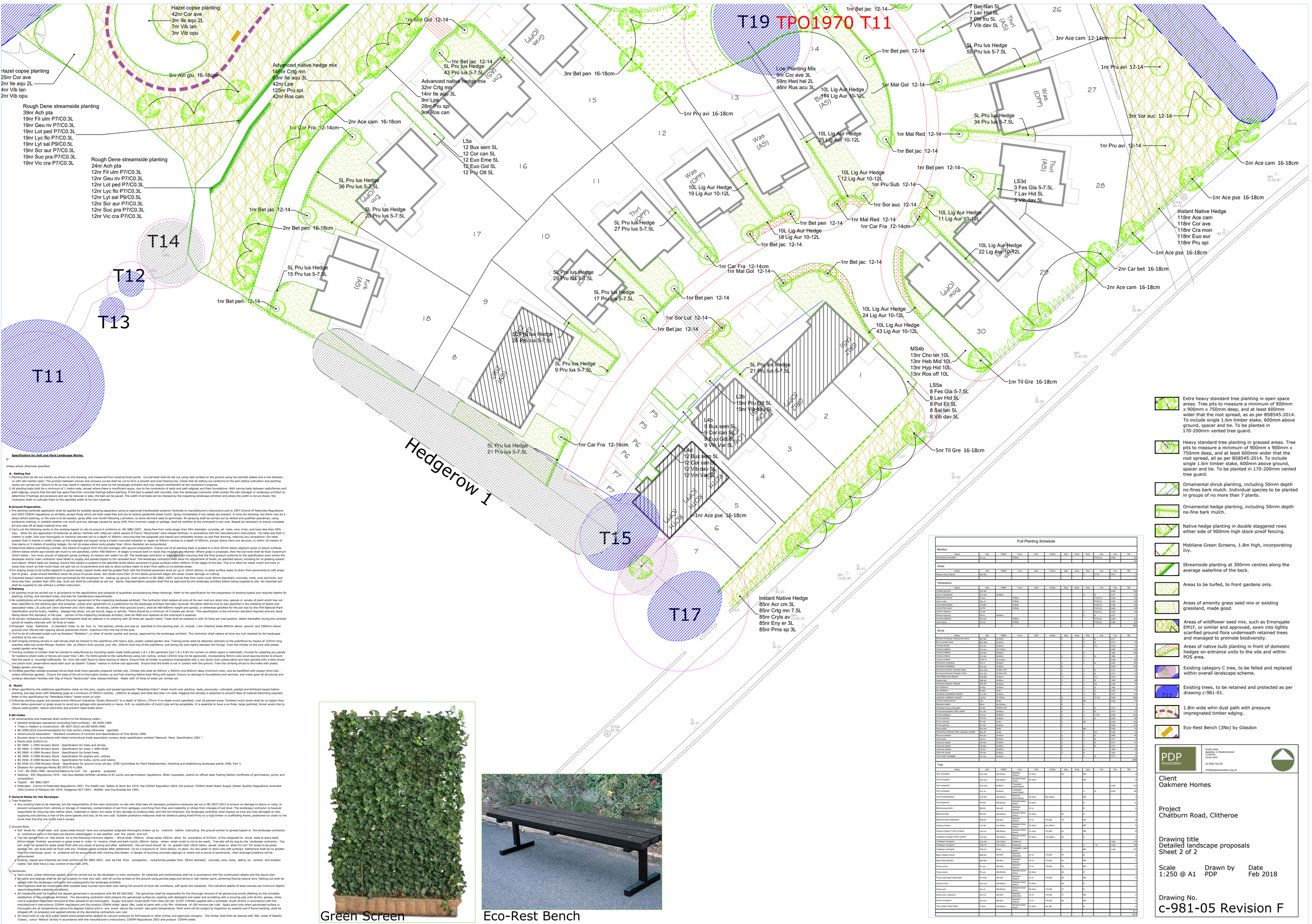

Specification for Soft and Hard Landscape Works.

pl

Unless where otherwise specified:-

A. Setting Out

1. Planting shall be set out exactly as shown on the drawing, and measured from existing fixed points. Curved beds shall be set out using radii scribed on the ground using two pointed stakes and a line between, or with site marker paint. The junction between convex and concave curves shall be cut to form a smooth and even flowing line. Check that all setting out conforms to the plan before cultivation and planting works are carried out. Failure to do so may result in rejection of the work by the landscape architect and may require amendment at the contractor's expense.
2. All planting beds shall be a minimum of 1 metre wide, except where there is insufficient space, due to the constraints of walls and path edgings and their foundations. With narrow beds between walls/fences and path edgings, ensure that the bed has space free from concrete footings before planting. If the bed is sealed with concrete, then the landscape contractor shall contact the site manager or landscape architect to determine if footings are excessive and can be reduced or else, the bed can be paved. The width of all beds will be checked by the inspecting landscape architect and where the width is not as drawn, the contractor shall re-cultivate them to the specified width at his own expense.

B.Ground Preparation.

1. Pre-planting herbicide application shall be applied by suitable spraying apparatus using an approved translocated systemic herbicide to manufacturer's instructions and to 1997 Control of Pesticides Regulations and 2003 COSHH regulations on all beds, except those which are both weed free and are to receive geotextile sheet mulch. Spray immediately if any weeds are present. If none are showing, but there may be a delay before planting, or the area is to be seeded, spray after one month following cultivation, to allow dormant seed to germinate. All spraying shall be carried out by skilled and qualified operatives, using protective clothing, in suitable weather (no wind) and any damage caused by spray drift, from incorrect usage or spillage, shall be rectified at the contractor's own cost. Repeat as necessary to ensure complete kill and rake off all dead material from site.
2. Carry out the following works to the existing topsoil on site to ensure it conforms to BS 3882:2007, being free from rocks larger than 50m diameter, concrete, all roots, wire, brick, and have less than 20% clay. Allow for pre-application of herbicide as above. Fertilise with 100g per metre square of Fisons "Nextrocote" slow release fertilizer, in accordance with the manufacturer's instructions. For beds less than 5 meters in width, fork over thoroughly or machine rotovate soil to a depth of 300mm, ensuring that the subgrade and topsoil are completely broken up and free draining, relieving any compaction. For beds greater than 5 metres in width, break up the subgrade and topsoil using a tractor mounted subsoiler or ripper at 500mm centres to a depth of 500mm, except where there are services, or within 10 meters of tree stems or 3 meters of existing hedges. Do not rip areas where roots greater than 10mm diameter are encountered.
3. Determine before submitting a tender, the extent of support from the site manager with ground preparation: ensure soil of all planting beds is graded to a level 65mm below adjacent grass or paved surfaces, (90mm below where agro-textile set mulch is not specified), within 400-600mm of edges to ensure bark or wood chip mulches are retained. Where grass is proposed, then the soil level shall be flush (maximum 10mm below - but never proud) of adjacent paved surfaces, to receive rain water run-off. The landscape contractor is responsible for ensuring that the final product conforms to the specification even where the developer and/or main contractor have failed to supply and spread topsoil to the recessed level. The landscape contractor shall allow for adjustment of levels, as specified above, including for re-grading subsoil and topsoil. Where beds are sloping, ensure that topsoil is graded to the specified levels below pavement & grass surfaces within 400mm of the edges of the bed. This is to allow for sheet mulch and bark or wood chip mulch so that mulch does not spill out on to pavements and also to allow surface water to drain from paths on to planted areas.
4. For sloping areas to be turfed adjacent to paved areas, topsoil levels shall be graded flush with the finished pavement level (or up to 10mm below), to allow surface water to drain from pavements to soft areas. Soil of grass areas should therefore never be proud of paved areas. Soil levels more than 10 mm below pavement edges will cause mower damage on cutting.
5. Imported topsoil (where specified and sanctioned by the employer) for making up ground, shall conform to BS 3882: 2007, and be free from rocks (over 50mm diameter), concrete, roots, wire and brick, and have less than greater than 20% clay. Such soil shall be cultivated as set out above. Representative samples shall first be approved by the landscape architect before being supplied to site. No imported soil shall be supplied to site without a written instruction.

C.Planting

1. All planting must be carried out in accordance to the specification and schedule of quantities accompanying these drawings. Refer to the specification for the preparation of existing topsoil and required depths for planting, turfing, and standard trees, and also for maintenance requirements.
2. No substitutions will be accepted without the prior agreement of the inspecting landscape architect. The contractor shall replace at once at his own cost any stock size, species or variety of plant which has not been specified on the planting plan and schedule, unless prior agreement to a substitution by the landscape architect has been received. All plants shall be true to size specified in the schedule of plants and associated notes, (3L pots are 19cm diameter and 15cm deep). All shrubs, (other than ground cover), shall be 400-600mm height and spread, or otherwise specified for the pot size by the HTA National Plant Specification and be bushy, healthy, disease free stock, not pot bound, leggy or spindly. There should be a minimum of 5 breaks per shrub. This specification is the minimum standard required and any stock falling below this standard, in the sole opinion of the inspecting landscape architect, shall be lifted and replaced at the contractor's expense.
3. All shrubs, herbaceous plants, whips and transplants shall be watered in on planting with 20 litres per square metre. Trees shall be watered in with 25 litres per tree position. Water thereafter during the contract period at weekly intervals with 30 litres of water.
4. Proposed large feathered or standard trees to be true to the species, variety and size as specified on the planting plan, to include 1.6m chestnut stake 600mm above ground and 1000mm below ground) and 1No.tie with spacing device positioned 25mm maximum from the top of the post.
5. Turf to be of cultivated grade such as Rowlawn "Mediation", or other of similar quality and source, approved by the landscape architect. The contractor shall replace at once any turf rejected by the landscape architect at his own cost.
6. No substitutions will be accepted without the prior agreement of the inspecting landscape architect. The contractor shall replace at once at his own cost any stock size, species or variety of plant which has not been specified on the planting plan and schedule, unless prior agreement to a substitution by the landscape architect has been received. All plants shall be true to size specified in the schedule of plants and associated notes, (3L pots are 19cm diameter and 15cm deep). All shrubs, (other than ground cover), shall be 400-600mm height and spread, or otherwise specified for the pot size by the HTA National Plant Specification and be bushy, healthy, disease free stock, not pot bound, leggy or spindly. There should be a minimum of 5 breaks per shrub. This specification is the minimum standard required and any stock falling below this standard, in the sole opinion of the inspecting landscape architect, shall be lifted and replaced at the contractor's expense.
7. Twining varieties of climber shall be trained to walls/fences by mounting ready-made trellis panels 1.8 x 1.8m generally (but 1.8 x 0.6m for corners or where space is restricted). Include for adapting any panels for locations where walls or fences are lower than 1.8m. Fix trellis panels to the walls/fences using non rusting screws 125mm long (to be approved), incorporating 50mm cube wood spacing blocks to ensure that the panel is mounted sufficiently far from the wall/ fence to allow twining of stems. Ensure that all timber is pressure impregnated with a non phyto-toxic preservative and then painted with a dark brown non phyto-toxic preservative wood stain such as Sadolin "Classic" walnut or similar and approved. Ensure that the trellis is not in contact with the ground. Train the climbing shrub to the trellis with pieces of loaded garden wire tags.
8. Climbers specified outside proposed shrub beds shall have specially prepared climber pits. Climber pits shall be 400mm x 400mm and 600mm deep (minimum size), and be backfilled with topsoil (from site - unless otherwise agreed). Ensure the base of the pit is thoroughly broken up and free draining before back filling with topsoil. Ensure no damage to foundations and services, and make good all structures and surfaces disturbed. Fertilise with 50g of Fisons "Nextrocote" slow release fertiliser. Water with 15 litres of water per climber pit.

D. Mulch

1. When specified by the additional specification notes on this plan, supply and spread agrotextile "Weedstop Fabric" sheet mulch over planting beds, previously, cultivated, graded and fertilized topsoil before planting, and peg down with Weedstop pegs at a minimum of 500mm centres, (300mm at edges) and beds less than 1m wide. Pegging this densely is essential to prevent flaps of material becoming exposed. Refer to the specification for "Weedstop Fabric" sheet mulch on plan.
2. Following planting supply and spread evenly Melcourt Industries "Rustic Biomulch" to a depth of 50mm, (75mm if no sheet mulch specified), over all planted areas. Finished mulch levels shall be no higher than 15mm below pavement or grass levels to avoid any spillage onto pavements or lawns. N.B. no substitution of mulch type will be acceptable. It is essential to have a no-fines, large particled, brown wood chip to reduce weed growth, reduce wind blow and prevent rapid break down.

E.BS Codes

1. All workmanship and materials shall conform to the following codes:-
   - General landscape operations (excluding hard surfaces) - BS 4428:1989.
   - Trees in relation to construction- BS 5837:2012 and BS 6549:1990.
   - BS 3998:2010 (recommendations for tree works) unless otherwise specified.
   - Arboricultural Association - Standard Conditions Of Contract and Specifications of Tree Works 1996.
   - Nursery stock in accordance with latest horticultural trade association nursery stock specification entitled "National Plant Specification 2001 ".
   - Plants shall conform to:
   - BS 3969: 1:1992 Nursery Stock - Specification for trees and shrubs.
   - BS 3969: 2:1990 Nursery Stock - Specification for roses + AMD 6628.
   - BS 3969: 4:1984 Nursery Stock - Specification for forest trees.
   - BS 3969: 5:1985 Nursery Stock - Specification for poplars and willows.
   - BS 3936: 9:1998 Nursery Stock. - Specification for bulbs, corms and tubers.
   - BS 3936-10:1990 Nursery Stock - Specification for ground cover shrubs. CPSE-Committee for Plant Establishment, Handling and establishing landscape plants 1996, Part 3.
   - Glossary for Landscape Works BS 3975 Pt 4:1966
   - Turf - BS 3969:1998 - recommendations for turf for general purposes.
   - Seeding - EEC Regulations 1974. Use blue labelled certified varieties to EC purity and germination regulations. When requested, submit an official seed Testing Station Certificate of germination, purity and composition.
   - Topsoil - BS 3882:2007
   - Pesticides: Control of Pesticides Regulations 1997; The Health and Safety at Work Act 1974; the COSHH Regulation 2003, the product COSHH sheet Water Supply (Water Quality) Regulations amended 1991;Control of Pollution Act 1974; Hedgerow ACT 1997; Wildlife and Countryside Act 1981.

F.General Notes for the Developer.

1. Tree Protection
   - Any existing trees to be retained, are the responsibility of the main contractor on site who shall take all necessary protective measures set out in BS 5837:2012 to ensure no damage to stems or roots, to prevent compaction from vehicles or storage of materials, contamination of soil from spillages, scorching from fires and instability or stress from changes of soil level. The landscape contractor is however responsible for ensuring that neither plant, materials or labour are cause of any damage to existing trees, and like the employer, the landscape contractor shall replace at once any tree damaged on site, supplying and planting a tree of the same species and size, at his own cost. Suitable protective measures shall be chestnut paling fixed firmly to a rigid timber or scaffolding frame, positioned no closer to the trunk than the drip line of the tree's canopy.
2. Ground Work
   - Soil levels for shrub beds and grass areas should have any compacted subgrade thoroughly broken up by machine before instructing the ground worker to spread topsoil or the landscape contractor to commence work or the beds will become waterlogged in wet weather and the plants and turf.
   - Top soil spread from on site should be to the following minimum depths:- Shrub beds: 350mm. Grass areas 150mm. allow for excavation of 415mm of the subgrade for shrub beds to leave beds 65mm below finished pavement or grass areas in order to receive sheet and bark mulch, (90mm below where sheet mulch is not to be used). Tree pits will be dug by the landscape contractor. Top soil shall be spread for grass areas flush with any areas of paving and after settlement, the soil level should be no greater than 10mm below paved areas to allow for turf. For areas to be grass seeded, the soil level shall be flush with any finished paved surfaces after settlement (or to a maximum of 5mm below) to allow for rain water to drain onto soft surfaces. Settlement shall be no greater than the tolerances given or problems will be encountered with mowing (the blades in danger of touching concrete edgings) or where soil is proud of pavements, then drainage problems will be encountered.
   - Existing topsoil and imported soil shall conform to BS 3882:2007, and be free from compaction, rocks/bricks greater than 50mm diameter, concrete, wire, roots, debris, oil, cement and builders rubble. Soil shall have a clay content of less than 20%.
3. Hardworks
   - Hard works, unless otherwise agreed, shall be carried out by the developer or main contractor. All materials and workmanship shall be in accordance with the construction details and the layout plan.
   - All paths and edgings shall be set out properly to lines and radii, with all curves scribed on the ground using pointed pegs and string or site marker paint, achieving flowing natural arcs. Setting out shall be agreed with the landscape contractor and subsequently the landscape architect.
   - Hard surfaces shall be constructed after suitable base courses have been laid, taking full account of local site conditions, soft spots and substrate. The indicative depths of base courses are minimum depths assuming suitable substrate conditions.
   - All metalwork shall be finished hot dipped galvanized in accordance with BS EN ISO1460. The galvanizer shall be responsible for the thorough removal of all galvanizing snuts (fettling) to the complete satisfaction of the Landscape Architect. The decorating contractor shall prepare the galvanized surface by washing with detergent and water and scrubbing with a scouring pad until all dirt, grease, white rust & sulphates have been removed & then allowed to dry thoroughly. Supply and paint "Iscott 6630" from Sika Ltd (tel. 01707 374444) applied with a turkehead brush strictly in accordance with the manufacturer's instructions, COSHH regulations and the product COSHH sheet. Apply 2No. coats of paint with a dry film thickness of 100 microns per coat. Apply paint only when galvanized surface is thoroughly dry at temperatures above five degrees Celsius and in any event above the current dew point temperature. Paint work will be subject to inspection by experts and if found wanting, shall be stripped off, re-prepared and applied entirely at the decorating contractors own cost.
   - All wood work to use ACQ water based wood preservative applied by vacuum pressure by Permawood or other similar and approved company. The timber shall then be stained with 3No. coats of Sadolin 'Classic,' colour 'Walnut' strictly in accordance with the manufacturer's instructions, COSHH Regulations 2003 and product COSHH sheet.

Green Screen

Eco-Rest Bench

Full Planting Schedule

Bamboo

Name	Abb	Height	Form	Girth	Ch/Box	Bbs	Bulb	Root	Cor	Ctrs	Qty
Sasaella ramosa	Sa ram		Cutting						PlG9 ltr.	0.350	12
											12

Grass

Name	Abb	Height	Form	Girth	Ch/Box	Bbs	Bulb	Root	Cor	Ctrs	Qty
Festuca ovina 'Glauca'	Fes Gla							C	5.7 ltr.	0.377	11
											11

Herbaceous

Name	Abb	Height	Form	Girth	Ch/Box	Bbs	Bulb	Root	Cor	Ctrs	Qty
Achillea ptarmica	Ach ptb							C	3L	0.350	120
Cornus canadensis	Cor can	30-40cm						C	3L	0.577	33
Filipendula ulmaria	Fil ulm		Cutting						PlG9 3L	0.500	63
Geum rivale	Geu riv		Cutting						PlG9 3L	0.500	63
Lotus pedunculatus	Lot ped		Cutting						PlG9 3L	0.500	63
Lychnis flos-cucul	Lyc flo		Cutting						PlG9 3L	0.500	63
Lythrum salicaria	Lyt sal							C	3L	0.500	63
Phlomis fruticosa	Phl fru	40-60cm							3L	0.577	7
Teucrium chamaedrys	Teu cha		Cutting						PlG9 3L	0.500	63
Viola cinerea	Vio cin		Cutting						PlG9 3L	0.500	63
											448

Shrub

Name	Abb	Height	Form	Girth	Ch/Box	Bbs	Bulb	Root	Cor	Ctrs	Qty
Berberis thunbergii 'Atropurpurea Nana'	Ber hpn	30-40cm				4		C	3L	0.577	12
Buxus sempervirens	Bux sem	40-50cm						C	3L	0.577	12
Choisya ternata	Cho ter	40-60cm						C	10L	0.816	13
Corylus avellana	Cor ave	80-125cm								0.816	13
Corylus avellana	Cor ave	60-80cm						B		1.000	108
Crataegus monogyna	Cra mon	60-80cm				25		C	5L	1.000	60
Corylus avellana	Cryls av	100-125cm						B		0.250	85
Euonymus europaeus	Euo eur	60-80cm						B		0.250	118
Euonymus europaeus	Euo eur	40-60cm				4				0.250	118
Euonymus fortunei 'Emerald Gaiety'	Euo fgt	30-40cm (D)				4		C	3L	0.577	12
Euonymus fortunei 'Emerald n Gold'	Euo fgd	30-40cm (D)				4		C	3L	0.577	12
Ilex 'Nellie Stevens' Blue/Gr	Ilex Nel	40-60cm				3		C	10L	0.816	13
Hedera helix	Hed hel	40-60cm				3		C	2L	1.000	59
Hypericum patulum 'Hidcote'	Hyp hid	40-60cm				3		C	10L	0.816	13
Ilex aquifolium	Ilx aqu	40-60cm						C	2L	1.000	17
Ilex aquifolium	Ilx aqu	60-80						C	5L	1.250	5
Lonicera pisgoidiba 'Hidcote'	Lon hid	30-40cm						C	3L	0.577	22
Ligustrum ovalifolium 'Aureum'	Lig Aur	60-100cm				3			10-15L	0.785	28
Lonicera periclymenum	Lon	50-60				3		C	5L	1.250	11
Magnolia stellata	Mag st	80-100cm				3					3
Potentilla fruticosa 'Elizabeth'	Pot Eli	40-60cm (D)				4		C	3L	0.577	7
Prunus laurocerasus 'Otto Luyken'	Pru Otl	40-60cm				4		C	3L	0.577	12
Prunus lusitanica	Pru lus	60-80cm				3		C	5-7.5L	0.866	45
Prunus spinosa	Pru spi	40-60				3		C	3L	1.000	120
Prunus spinosa	Pru spi	60-80				3			5L	1.250	12
Prunus spinosa	Pru spi	80-100cm				3				1.250	12
Rosa canina	Ros can	60-80				3	BR			1.000	42
Rosmarinus officinalis 'Miss Jessopp's Upright'	Ros off	40-60				3		C	10L	0.816	13
Rosa acicularis	Ros acu	60-80				3		C	5L	1.000	59
Salix lanata	Sal lan	30-50cm				4		C	5L	0.577	8
Viburnum davidii	Vib dav	30-40cm				4		C	3L	0.577	8
Viburnum davidii	Vib dav	40-60cm				3		C	5L	0.707	7
Viburnum tinetus	Vib tin	40-60cm				3		C		1.000	7
Viburnum opulus	Vib opu	40-60cm				3		B		1.000	7
Vinca major 'Variegata'	Vin var	30-40cm						C	3L	0.577	12
											2459

Tree

Name	Abb	Height	Form	Girth	Ch/Box	Bbs	Bulb	Root	Cor	Ctrs	Qty
Acer campestre	Ace cam	250-425cm	Standard (Extra heavy)	12-14cm		35		RB			5
Acer campestre	Ace cam	450-625cm	Standard (Extra heavy)	16-18cm				RB			8
Acer campestre	Ace cam	60-80cm	Transplant (seed raised)							0.250	12
Acer campestre	Ace cm	80-80cm	Transplant (seed raised)					C	5L	0.250	60
Acer pseudoplatanus	Ace pse	450-625cm	Standard (extra heavy)	16-18cm	Min 200cm			RB			2
Alnus glutinosa	Aln glu	450-625cm	Standard (Extra heavy)	16-18cm				RB			2
Betula pubescens	Bet pu	350-425	Standard (Heavy)	12-14				B			3
Betula pendula	Bet pen	450-625cm	Standard (Extra heavy)	16-18cm		65		B			5
Betula pendula 'Dalecarlica'	Bet pen	350-425	Standard (Heavy)	12-14	175-200	76		RB			8
Carpinus betulus	Car bet	min 450cm	Standard (Extra heavy)	16-18cm	min 200cm			RB			2
Carpinus betulus 'Fastigiata'	Car Fa	350-425cm	Standard (Extra heavy)	12-14cm	175-200	65		RB			3
Crataegus lavigata 'Paul's Scarlet'	Cra Pau	450-625cm	Standard (Extra heavy)	16-18cm	175-200cm	65		B			3
Crataegus monogyna	Cra mon	300-350cm	Feathered							0.250	12
Crataegus monogyna	Crtg mn	100-125cm	Feathered						7.5L	0.250	35
Crataegus monogyna	Cra mo	60-80cm	Transplant (seed raised)							0.250	12
Malus 'Golden Hornet'	Mal Gol	350-425	Standard (Selected)	12-14	175-200	54		B			4
Malus 'Red Sentinel'	Mal Red	350-425	Standard (Heavy)	12-14	175-200	54		RB			3
Prunus avium	Pru avi	350-425	Standard (Heavy)	12-14	175-200	49		RB			2
Prunus avium	Pru avi	450-625cm	Standard (Extra heavy)	16-18cm		59		B			3
Prunus subhirtella 'Autumnalis'	Pru Sub	350-425	Standard (Heavy)	12-14	175-200	58		RB			3
Quercus robur	Que rob	450-625cm	Standard (Extra heavy)	16-18cm		59		B			3
Sorbus aria	Sor ari	450-625cm	Standard (Extra heavy)	16-18cm	175-200	37		B			3
Sorbus aria 'Lutescens'	Sor Lut	350-425	Standard (Heavy)	12-14	175-200	37		RB			2
Sorbus aucuparia	Sor auc	350-425	Standard (Heavy)	12-14	175-200	58		RB			3
Tilia cordata 'Green Spire'	Til Gre	450-625cm	Standard (Extra heavy)	16-18cm	min 200						5
											47
											3974

Extra heavy standard tree planting in open space areas. Tree pits to measure a minimum of 900mm x 900mm x 750mm deep, and at least 600mm wider that the root spread, as as per BS8545:2014. To include single 1.6m timber stake, 600mm above ground, spacer and tie. To be planted in 170-200mm vented tree guard.

Heavy standard tree planting in grassed areas. Tree pits to measure a minimum of 900mm x 900mm x 750mm deep, and at least 600mm wider that the root spread, all as per BS8545:2014. To include single 1.6m timber stake, 600mm above ground, spacer and tie. To be planted in 170-200mm vented tree guard.

Ornamental shrub planting, including 50mm depth no-fines bark mulch. Individual species to be planted in groups of no more than 7 plants.

Ornamental hedge planting, including 50mm depth no-fine bark mulch.

Native hedge planting in double staggered rows either side of 900mm high stock-proof fencing.

Mobilane Green Screens, 1.8m high, incorporating Ivy.

Streamside planting at 300mm centres along the average waterline of the beck.

Areas to be turfed, to front gardens only.

Areas of amenity grass seed mix or existing grassland, made good.

Areas of wildflower seed mix, such as Emorsgate EM1F, or similar and approved, sown into lightly scarified ground flora underneath retained trees and managed to promote biodiversity.

Areas of native bulb planting in front of domestic hedges on entrance units to the site and within POS area.

Existing category C tree, to be felled and replaced within overall landscape scheme.

Existing trees, to be retained and protected as per drawing c-981-01.

1.8m wide whin dust path with pressure impregnated timber edging.

Eco-Rest Bench (3No) by Glasdon

PDP Associates
Great Asby
Appleby in Westmorland
Cumbria
CA16 6HD
01768 341030
info@pdpassociates.org.uk

Client
Oakmere Homes

Project
Chatburn Road, Clitheroe

Drawing title
Detailed landscape proposals
Sheet 2 of 2

Scale
1:250 @ A1

Drawn by
PDP

Date
Feb 2018

Drawing No.
c-981-05 Revision F