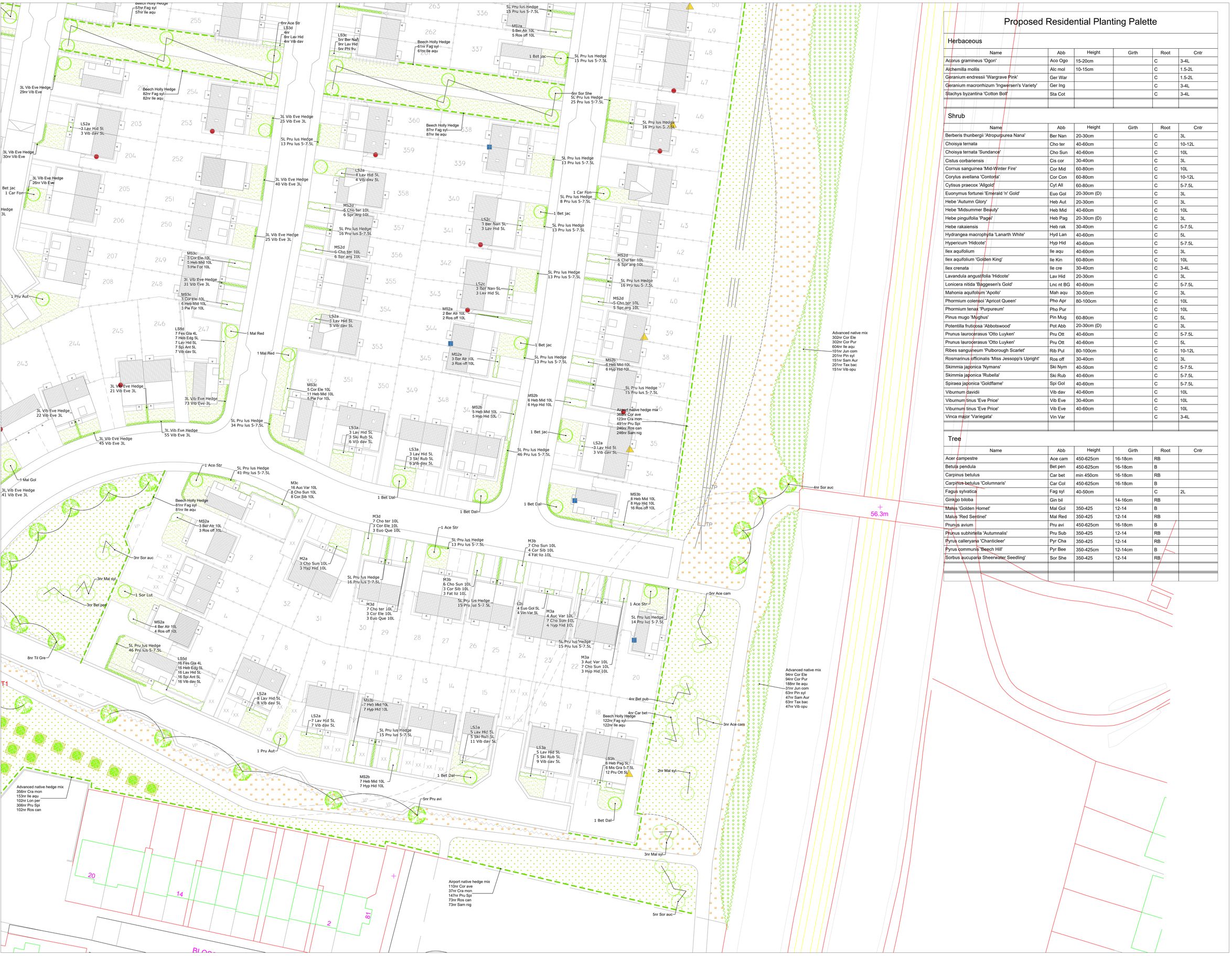

Proposed Residential Planting Palette

Herbaceous

Name	Abb	Height	Girth	Root	Cntr
Acorus gramineus 'Ogon'	Aco Ogo	15-20cm		C	3-4L
Alchemilla mollis	Alc mol	10-15cm		C	1.5-2L
Geranium endressii 'Wargrave Pink'	Ger War			C	1.5-2L
Geranium macrorrhizum 'Ingwersen's Variety'	Ger Ing			C	3-4L
Stachys byzantina 'Cotton Boll'	Sta Cot			C	3-4L

Shrub

Name	Abb	Height	Girth	Root	Cntr
Berberis thunbergii 'Atropurpurea Nana'	Ber Nan	20-30cm		C	3L
Choisya ternata	Cho ter	40-60cm		C	10-12L
Choisya ternata 'Sundance'	Cho Sun	40-60cm		C	10L
Cistus corbariensis	Cis cor	30-40cm		C	3L
Cornus sanguinea 'Mid-Winter Fire'	Cor Mid	60-80cm		C	10L
Corylus avellana 'Contorta'	Cor Con	60-80cm		C	10-12L
Cytisus praecox 'Allgold'	Cyt All	60-80cm		C	5-7.5L
Euonymus fortunei 'Emerald 'n' Gold'	Euo Gol	20-30cm (D)		C	3L
Hebe 'Autumn Glory'	Heb Aut	20-30cm		C	3L
Hebe 'Midsummer Beauty'	Heb Mid	40-60cm		C	10L
Hebe pinguifolia 'Pagei'	Heb Pag	20-30cm (D)		C	3L
Hebe rakaiensis	Heb rak	30-40cm		C	5-7.5L
Hydrangea macrophylla 'Lanarth White'	Hyd Lan	40-60cm		C	5L
Hypericum 'Hidcote'	Hyp Hid	40-60cm		C	5-7.5L
Ilex aquifolium	Ile aqu	40-60cm		C	3L
Ilex aquifolium 'Golden King'	Ile Kin	60-80cm		C	10L
Ilex crenata	Ile cre	30-40cm		C	3-4L
Lavandula angustifolia 'Hidcote'	Lav Hid	20-30cm		C	3L
Lonicera nitida 'Baggesen's Gold'	Lnc nt BG	40-60cm		C	5-7.5L
Mahonia aquifolium 'Apollo'	Mah aqu	30-50cm		C	3L
Phormium colensoi 'Apricot Queen'	Pho Apr	80-100cm		C	10L
Phormium tenax 'Purpureum'	Pho Pur			C	10L
Pinus mugo 'Mughus'	Pin Mug	60-80cm		C	5L
Potentilla fruticosa 'Abbotswood'	Pot Abb	20-30cm (D)		C	3L
Prunus laurocerasus 'Otto Luyken'	Pru Ott	40-60cm		C	5-7.5L
Prunus laurocerasus 'Otto Luyken'	Pru Ott	40-60cm		C	5L
Ribes sanguineum 'Pulborough Scarlet'	Rib Pul	80-100cm		C	10-12L
Rosmarinus officinalis 'Miss Jessopp's Upright'	Ros off	30-40cm		C	3L
Skimmia japonica 'Nymans'	Ski Nym	40-50cm		C	5-7.5L
Skimmia japonica 'Rubella'	Ski Rub	40-60cm		C	5-7.5L
Spiraea japonica 'Goldflame'	Spi Gol	40-60cm		C	5-7.5L
Viburnum davidii	Vib dav	40-60cm		C	10L
Viburnum tinus 'Eve Price'	Vib Eve	30-40cm		C	10L
Viburnum tinus 'Eve Price'	Vib Eve	40-60cm		C	10L
Vinca major 'Variegata'	Vin Var			C	3-4L

Tree

Name	Abb	Height	Girth	Root	Cntr
Acer campestre	Ace cam	450-625cm	16-18cm	RB	
Betula pendula	Bet pen	450-625cm	16-18cm	B	
Carpinus betulus	Car bet	min 450cm	16-18cm	RB	
Carpinus betulus 'Columnaris'	Car Col	450-625cm	16-18cm	B	
Fagus sylvatica	Fag syl	40-50cm		C	2L
Ginkgo biloba	Gin bil		14-16cm	RB	
Malus 'Golden Hornet'	Mal Gol	350-425	12-14	B	
Malus 'Red Sentinel'	Mal Red	350-425	12-14	RB	
Prunus avium	Pru avi	450-625cm	16-18cm	B	
Prunus subhirtella 'Autumnalis'	Pru Sub	350-425	12-14	RB	
Pyrus calleryana 'Chanticleer'	Pyr Cha	350-425	12-14	RB	
Pyrus communis 'Beech Hill'	Pyr Bee	350-425cm	12-14cm	B	
Sorbus aucuparia 'Sheerwater Seedling'	Sor She	350-425	12-14	RB	

Specification for Soft and Hard Landscape Works.

All landscape works shall comply with BS 4428:1989.

Unless otherwise specified:-

A. Setting Out

Plant locations to be set out exactly as shown on the drawing and measured from existing fixed points. Curved beds shall be set out using rath 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 necessitate the cost of remedial operations.

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 the concrete can be removed without damage to the wall or fence. If the bed is found to be sealed and 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 or mulch cover only. Allow a minimum of 7 days after application before cultivation, and 14 days after 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 take care not to damage trees.

2. Carry out the following works to the existing topsoil on site to ensure it conforms to BS 3882:2015, being free from rocks larger than 50m diameter, concrete, all roots, wire, bricks, and have less than 20% clay. Prior to commencement of any work, the site shall be cleared of all rubbish and debris. Apply a pre-cultivation slow-release fertiliser, 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 ensure free drainage and remove any stones and debris that are encountered, prior to the planting of trees and hedges. Do not cut areas where roots greater than 10mm diameter are encountered. Do not break up soil within the root protection zone of any retained tree. Refer to AB About Trees Arboricultural Implications Assessment for further information.

3. Determine before submitting a tender, the extent of support from the site manager with ground preparation operations, such as the removal of surplus subsoil, stones, debris, and cultivation of compacted surfaces, 150mm below where agri-textile wet mulch is not specified, within 400 diameter of pegs to ensure bark or wood chip mulches are retained. Where grass is proposed, then the soil level shall be flush (maximum 25mm proud) with the adjacent finished pavement or grass areas in order to receive turf. 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 received 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 & edgings to allow for the specified thickness of bark mulch. Ensure that the finished level of 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 15mm below), to allow surface water to drain from pavements to soft areas. Where the finished topsoil level is graded to a level more than 15 mm below adjacent paved areas, Soil levels more than 15 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 3882:2015, be free from stones and other deleterious materials and shall contain organic matter of not less than greater than 35% 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. Planting shall 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 approved by the inspecting landscape architect. Any substitutions proposed by the contractor and not approved by the inspecting landscape architect, shall be lifted and replaced at the contractor's expense.

3. Refer to the Ecosulis Ecology Landscape Management Plan for watering details.

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 cheshunt stake 600mm above ground and 1000mm below ground) and 3No.tie with spacing device positioned 25mm maximum from the top of the post.

5. Turf to be of cultivated grade such as Rowlawn "Mediator", 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. Self-clinging climbing shrubs or wall shrubs shall be trained to the wall/fence with heavy duty, plastic coated wire ties, fixed to the wall/fence with suitable plugged and screwed eyes, spaced at 600mm centres in stainless steel eye screw fittings. Fastice-Lite, at 250mm from ground, and 1No. 350mm from top of the wall/fence, and string the wire tightly between the fixings. Train the climber to the wire with plastic coated garden wire ties.

7. Twining varieties of climber shall be trained to walls/fences by mounting ready-made trellis panels 1.8 metres high x 1.8 metres wide, of 50mm x 25mm treated softwood framework, fixed to walls/fences in those 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 cuke 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 phytotoxic semi-transparent stain, prior to fixing. Fix the trellis panels to the walls/fences to ensure that the trellis is not in contact with the ground. Train the climbing shrub to the trellis with plastic coated garden wire tags.

8. Climbers specified outside proposed shrub beds shall have specially prepared climber pits. Climber pits shall be 600mm x 600mm 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 "Neutrosol" slow release fertiliser. Water with 15 litres of water per climber pit.

D. Mulch

1. Mulch specified by the additional specification notes on this plan, supply and spread agritextile "Weedstop Fabric" shaped mulch over planting beds, previously, cultivated, graded and fertilised 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. Apply a mulch of composted bark fine grade, supplied by Grant 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:-
- Arboricultural Association Guide to tree cabling/bracing - AA Mid July 1992.
- Trees in relation to construction- BS 5837:2012
- BS 3998:2010 (recommendations for tree works) unless otherwise specified.
- Arboricultural Association - DR.8 Framework for tree work contracts - standard conditions of contract and specification for tree works 2006.
- BS 8545:2014 Trees: from nurseries to independence in the landscape. Recommendations.
- Nurseries stock in accordance with latest horticultural trade association nursery stock specification entitled "National Plant Specification 2001".
- Turf - BS 3969:1998 -recommendations for turf for general purposes.
- Seeding - REC Regulations 1974. Use blue labelled certified varieties to EC purity and germination standards. Otherwise inspected, 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 1989 and 1991,Control of Pollution Act 1974,Hedgerow ACT 1997, Wildlife and Countryside Act 1981.

F. General Notes for the Developer.

1. Tree Protection
- Please refer to All About Trees' tree protection information. No digging to take place within the root protection zones of protected trees.

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 will commence work on 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 evaluation 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, (50mm compacted depth) and to allow for the finished level of the shrub beds to be flush. Top soil should be spread for grass areas flush with any areas of paving and other settlement, the soil level should be no greater than 150mm below paved areas to allow for turf. For areas to be grass seeded, the finished level of the top soil should be 25mm below paved areas (or up to a maximum of 15mm below) to allow for rain water to drain into 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, stones greater than 50mm diameter, concrete, wire, roots, debris, oil, cement and builders rubble. Soil shall have a clay content of less than 20%.

3. Hardwards
- 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.
- Excavate for paths and hardstandings to the specified depths, allowing for the sloping 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 galvanised in accordance with BS EN ISO1461. The galvanizer shall be responsible for the thorough removal of all galvanizing smuts (flitting) by the galvanizer prior to the galvanizing process. The finished galvanized surface shall be free from 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 apply Zinc rich primer to the galvanized steel work, in two coats, in strict 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 to be faulty, 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.

Extra heavy standard tree planting in grassed or planted areas. Tree pits as per BS 8545:2014. To include single 1.6m timber stake, 600mm above ground, spacer and biodegradable tie.

Heavy standard tree planting in grassed or planted areas. Tree pits as per BS 8545:2014. To include single 1.6m timber stake, 600mm above ground, spacer and biodegradable tie.

Feathered tree planting in grassed or planted areas. Tree pits as per BS 8545:2014. To include single 1.6m timber stake, 600mm above ground, spacer and biodegradable tie.

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.

Areas to be turfed.

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

Areas of species-rich wetland grass seeding, such as Emorsgate Mix EG8, or similar and approved.

Areas of species-rich meadow grass seeding, such as Emorsgate Mix EM2, or similar and approved.

Native scrub planting at 1m centres, including tubular guards and stakes. Area covered in 30mm depth no-fines bark mulch.

Native fruit tree undersown with species-rich wildflower grass mix EM2F.

Native marginal and damp-tolerant scrub planting adjacent to SuDS basin.

Suggested location of bat boxes as recommended in ECUS Ecology Enhancement Plan.

Suggested location of sparrow boxes as recommended in ECUS Ecology Enhancement Plan.

Suggested location of integrated swift boxes as recommended in ECUS Ecology Enhancement Plan.

Existing trees, to be removed and replaced within proposed landscape scheme.

Existing trees, to be protected and retained. Please refer to adjacent tree protection methodology.

NB: A wired drawing is clearer than this version. PDF_09.12.20

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Client
Keepmoat Homes

Project
School Street, Thurnscoe. Phase 3

Drawing title
Detailed plot landscape proposals
Sheet 4 of 4

Scale	Drawn by	Date
1:250 @ A0	PDP	Feb 2020

Drawing No.
c-1787-05 Revision A