



Existing hedgerow to be retained and gap filled with following species:  
 10% Acer campestre  
 10% Crataegus monogyna  
 10% Prunus padus  
 50% Prunus spinosa  
 10% Rosa canina

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Existing hedgerow to be removed and re-planted immediately following completion of the rear boundary wall of plots with the following species:  
 43 No. ACE CAM  
 43 No. CRA MON  
 43 No. ILE AQU  
 43 No. PRU AVI  
 43 No. ROS CAN

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**Landscape Planting Key:**

- Existing Trees to be retained and protected during the works.
- Proposed ornamental planting on 400mm depth of topsoil with 75mm bark mulch.
- Proposed tree planting, tree pit and stake as detailed in the specification.
- Proposed evergreen hedgerow to define plot boundaries at key site junctions. Bare root transplants with 60cm rabbit guards.
- Proposed native / deciduous hedgerow. Bare root transplants with 60cm rabbit guards.
- Front gardens to be turfed on 150mm topsoil.
- Native planting woodland mix to be planted at 0.7 metre centres for additional wildlife habitat. New planting with 45cm photodegradable spiral tree guard.
- Public open space to be sown with Germinal AberSustain, or similar approved, to be sown at a rate of 40g/m2 on 150mm topsoil.

REV	DESCRIPTION	DATE
A	Minor Amendments	02/03/2018
B	Minor Amendments	09/03/2018
C	Minor Amendments	15/03/2018
D	Minor Amendments	05/04/2018
E	Minor Amendments	09/08/2018
F	Minor Amendments	16/04/2019
G	Minor Amendments	30/05/2019
H	Updated to "Site Layout Rev M"	08/07/2019
I	Amendment to hedge plots 6-17	09/10/2019
J	Amendment to plots 37-39	12/11/2019

CLIENT: MACBRYDE HOMES  
 PROJECT: Meliden Road, Dyserth LL18 6BP  
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**1) GROUND PREPARATION AND SOIL SPECIFICATION**

Subsoil shall meet the following specification:

- Texture 5-50% clay
- PH 6-7.5
- Stones <20%

To be free from toxic substances, weed seeds, plastic, metals etc.

Subsoil shall be spread to a minimum of 250mm below new grass and shrub areas. Tree pits to be constructed as described in section 'Plant and Planting Specification'.

Subsoil to be spread by hand or using a back-acting track vehicle to cause minimum compaction and loss of soil structure. No soil handling shall be undertaken when the soil is wetter than the plastic limit.

**Topsoil:**

Imported topsoil shall be Multipurpose Grade as described in BS 3882:2015 Specification for Topsoil. Soil shall be stored in heaps not exceeding 1.5 metres high. Heaps shall be graded to shed water and avoid ponding, maintained in a weed-free condition and protected from contamination or trespass by heavy machinery.

Topsoil shall be lightly consolidated in layers not exceeding 150mm using track laying machinery. Works shall not be undertaken in periods of wet weather.

Topsoil shall be laid to the following minimum depths:

- 150mm below new grass areas
- 400mm beneath new shrub areas.
- Finished levels, after settlement, shall be as follows:
- 25mm above adjacent paving from new grassed areas and non-mulched shrub beds
- 75mm below adjacent paving and grass for mulched planting beds.
- 150mm below damp proof courses.

**2) GROUND CONDITIONING**

40 litres of compost to be incorporated into the top 200mm of each square metre of topsoil for all ornamental shrub beds.

**3) PLANT AND PLANTING SPECIFICATION**

All plant stock, plant handling and planting to be undertaken in accordance with the following British Standard Specifications and Code of Practice:

- BS 3936: 1992 Part 1 Nursery Stock. Specification for Trees and Shrubs.
- BS 3936: 1981 Part 10 Nursery Stock. Ground Cover Plants.
- BS 4428: 1989 Recommendations for general landscaping operations.
- BS 4043: 1989 Recommendations for transplanting root-balled trees.
- The Code of Practice for Plant Handling 1985. (Horticultural Trades Association).

**Plant Stock:**

Plant stock to be supplied in accordance with the size and description specified on the plant schedule and position indicated on the drawing number.

Plant stock shall be healthy, vigorous, free from pests and diseases and suitably hardened off for the proposed situation of planting, and lifted at a time in accordance with good nursery practice. Stock shall have a well formed fibrous root system and be free from perennial weeds. The form of trees shall be in accordance with BS 3936: Part 1:1992, Section 7, Form of Trees.

**Plant Handling:**

All plant materials shall be lifted, bundled, labelled, packaged, transported, temporarily stored and planted in accordance with the procedures and methods illustrated in the publication, "Plant Handling" (Horticultural; Trades Association) and relevant sections of BS 4043: 1989 Transplanting Root-Balled Trees.

**Shrub Planting:**

All bare root stock shall be planted between November and April. If planting is to be carried out at any other time of the year, containerised stock shall be used. Plants shall be delivered to site in quantities which can be planted the same day. No plant roots shall be allowed to dry out.

Plant stock shall be watered in same day with 5 litres per plant.

**Tree Planting:**

Trees to be pit planted. Minimum pit size: Standard tree 900 x 900x 750mm / Semi-mature tree 2000 x 2000 x 1200mm.

Pits to be prepared to base and sides of pit to be further scarified.

Standard trees to be double staked using two stakes (75mm dia.), driven into ground 300mm below bottom of pit. Base of pit to be filled with 200mm of 3:1 mix of approved topsoil / compost.

Trees to be centrally located and stem placed in an upright position. Pit to be back-filled with a 3:1 mix of an approved topsoil / compost. Backfill firmly to 50mm above previous ground level to allow for settlement.

Saw stakes to leave 600mm above soil level. Fix adjustable tree ties to each stake, to include rubber spacer. Water in same day with 52 litres per tree.

All works shall be carried out to the minimum standard according to BS 3936: 1992 Part 1 Nursery Stock. Specification for Trees and Shrubs.

BS 4043: 1989 Recommendations for transplanting root-balled trees.

**Staking:**

Stake all standard trees with double short stakes, feathered trees with low single stake. Stakes to be first grade pressure impregnated round timber with chamfered tops. Position stake close to tree on windward side and drive vertically at least 400mm into bottom of pit before planting. Backfilling: consolidate material around stake. Height of stakes: cut to approximately one third of the tree height above ground level, taking care not to damage the bark. Ties: Hessian. Tying: secure tree firmly but not rigidly to stake with at least 2 ties within 25mm of top of stake.

**Mulch:**

All shrub beds shall be spread with a medium grade bark mulch to a settled depth of 75mm. Mulch to be free from fines, weeds, disease and contaminants.

**Turfed Areas**

To be specified and laid in accordance with BS. 3936:1990 Recommendations for turf for general purposes. Turf to be Lindum Festival Turf (or similar approved). Hardwearing with a dense sward containing a mixture of 25% perennial ryegrass, 55% fescues and 20% smooth stalked meadow grass. This mix is easy to maintain and will recover well from general wear.

Turf to be laid in suitable weather conditions on a prepared bed with no weeds and a suitable slow release fertiliser applied to bed prior to laying.

Turf to be watered regularly until it is well established.

**Grass Seeding:**

Seed mix shall be Germinial AberSustain mix, or similar approved. Sowing to be taken between March and October.

Topsoil shall be cultivated to a fine tilth, be free from weeds, stones and other debris. Levels to be graded to form finished levels as indicated in section, 'Topsoil'.

Roll, fertilise at 40gms/sq m, 10-14 days prior to seeding, sow at rate of 40g/m2 and lightly rake. First cut to be undertaken when grass reaches 50mm.

**New formal hedges - Double staggered row:**

Bare root stock shall be planted between November and March/April. Consistent in species, cultivar and clone to ensure a uniform hedge.

To be planted in a previous prepared planting bed 1metre wide. Planted to be centrally in a double row, 400mm between plants and 400mm between rows. Ensure plants are planted to the correct depth to correspond to the soil mark on main stems.

Prune back to a height of 0.6metres.

**New mixed native hedges:**

Bare root stock shall be planted between November and March/April. Consistent in species, cultivar and clone to ensure a uniform hedge. Plants to be planted in groups of 3, 5 or 7 of the same species.

To be planted in a previous prepared planting bed 1metre wide. Planted to be centrally in a double row, 400mm between plants and 400mm between rows. Ensure plants are planted to the correct depth to correspond to the soil mark on main stems.

Prune back to a height of 1.3metres.

**Native shrub mix:**

All bare root stock shall be planted between November and March/April. If planting is to be carried out at any other time of the year, container grown stock shall be used. Plants shall be delivered to site in quantities that which can be planted the same day. No plant roots shall be allowed to dry out. Native transplants and shrubs to be set out in single random groups of 3 - 7 of single species in accordance with the group size and spacing specified on the drawings and schedules. Bare root transplants with 45cm Photodegradable rabbit guards.

**4) MAINTENANCE AND MANAGEMENT**

Plant stock and soft landscaped areas shall be maintained for a period of five years via the developers agent or appointed Management Company during which time the following operations shall be carried out:

**Regular visits:**

Monthly maintenance visits to include the following operations:

- Hand weed planting beds
- Remove litter
- Sweep mulch spillage
- Re-firm plant stock as necessary
- Adjust stakes and ties as necessary
- Check rabbit guards and replace/ remove as required
- Prune plant stock as required to encourage good form
- Check all plant stock and report signs of pests, disease, death and damage.

**PLANT SCHEDULE**

**Standard Trees**

Abbrev.	Botanical Name	Common Name	Girth/ Dia. cm	Height cm	Root Zone	Specification	Qty
ACE GOL	Acer platanoides	Princeton Gold	10-12	300-350	RB	2x SS; clear stem min. 200cm; 4 brks	15
AME LAM	Amelanchier lamarkii	Juneberry	6-8	250-300	RB	2x LS; clear stem 150-175cm; 3 brks	1
CAR FON	Carpinus betulus	Frans Fontaine'	8-10	250-300	RB	2x Std; clear stem 175-200cm; 3 brks	18

**Semi-mature and Extra Heavy Standard trees**

Abbrev.	Botanical Name	Common Name	Girth/ Dia. cm	Height cm	Root Zone	Specification	Qty
PIN NIG	Pinus nigra	Austrian Pine		350-400	RB	5x; leader with laterals	2
PIN NIG	Pinus nigra	Austrian Pine		400-450	RB	5x; leader with laterals	1
PIN NIG	Pinus nigra	Austrian Pine	45-50	600-700	RB	7x; Semi-mature; 200-300cm spread; clear stem min. 200cm	3
PIN NIG	Pinus nigra	Austrian Pine	60-70	700-800	RB	7x; Semi-mature; 200-300cm spread; clear stem min. 200cm	2
ACE CAM	Acer campestre	Common Maple	14-16	400-450	RB	3x; EHS; clear stem min. 200cm; 5 brks	13
BET PEN	Betula pendula	Common Silver Birch	14-16	400-450	RB	3x; EHS; clear stem 175-200cm; 5 brks	8
QUE ROB	Quercus robur	Common Oak	14-16	400-450	RB	3x; EHS; clear stem 175-200cm; 5 brks	9
ACE ELS	Acer campestre	'Elsrijk'	20-25	500-550	RB	3x; Semi-mature; clear stem min. 200cm	9

**Hedging**

Abbrev.	Botanical Name	Common Name	Girth/ Dia. cm	Height cm	Root Zone	Specification	Qty
CAR BET	Carpinus betulus	Common Hornbeam		80-100	5L	1+1; Transplant - seed raised; branched; 5 brks	790
FAG SYL	Fagus sylvatica	Common Beech		100-125	5L	1+2; Transplant - seed raised; 4 brks	235
FAG PUR	Fagus sylvatica	'Purpurea'		60-80	3L	1+2; Transplant - seed raised	416
PRU ROT	Prunus laurocerasus	'Rotundifolia'		60-80	5L	Bushy; 5 brks	516

**Ornamental Planting**

Abbrev.	Botanical Name	Common Name	Girth/ Dia. cm	Height cm	Root Zone	Specification	Qty
ALC MOL	Alchemilla mollis	Lady's Mantle			2L	Full pot	67
BRA SUN	Brachyglottis 'Sunshine'	Shrub Ragwort 'Sunshine'		20-30	2L	Branched; 3 brks	73
BUD BLU	Buddleja davidii	'Nanho Blue'		30-40	2L	Branched; 3 brks	16
CAR EVE	Carex oshimensis	'Evergold'			2L	Full pot	158
CHO SUN	Choisya ternata	'Sundance'		20-30	2L	Bushy; 3 brks	18
EJO GOL	Euonymus fortunei	'Emerald n' Gold'	20-30D	20-30	2L	Bushy; 5 brks	61
GER BLU	Geranium	'Johnson's Blue'			2L	Full pot	90
HEB GLO	Hebe	'Autumn Glory'		20-30	2L	Bushy; 3 brks	90
HEB BEA	Hebe	'Midsummer Beauty'		20-30	2L	Bushy; 3 brks	82
PHO TRI	Phormium cookianum	'Tricolor'		20-30	3L	7 leaves	2
PHO PUR	Phormium tenax	'Purpureum'		30-40	2L	5 leaves	3
PRU LUY	Prunus laurocerasus	'Otto Luyken'		20-30	2L	Bushy; 3 brks	87
ROS OFF	Rosmarinus officinalis	Rosemary		20-30	2L	Bushy; 3 brks	10
RUD GOL	Rudbeckia fulgida	sullivanti 'Goldsturm'			2L	Full pot	13
SAL TRI	Salvia officinalis	'Tricolor'			2L	Full pot	10
SAN CHA	Santolina chamaecyparissus	Cotton Lavender		20-30	2L	Bushy; 5 brks	114
SKI RUB	Skimmia japonica	'Rubella'		20-30	2L	Bushy; 3 brks	18
VIN VAR	Vinca major	'Variegata'	30-40D		2L	Several shoots; 3 brks	98

**Native Hedging Mix (Hawthorn)**

Abbrev.	Botanical Name	Common Name	Girth/ Dia. cm	Height cm	Root Zone	Specification	Qty
ACE CAM	Acer campestre	Common Maple		60-80	B	1+1; Transplant - seed raised	66
COR AVE	Corylus avellana	Common Hazel		60-80	B	1+2; Transplant - seed raised; branched; 3 brks	69
CRA MON	Crataegus monogyna	Common Hawthorn		60-80	B	1+1; Transplant - seed raised	341
ILE AQU	Ilex aquifolium	Common Holly	RC5	20-40	150cc min.	1+0; Seeding; cell grown	69
PRU AV	Prunus avium	Wild Cherry		60-80	B	1+1; Transplant - seed raised	69
ROS CAN	Rosa canina	Dog Rose		60-80	B	1+1; Transplant - seed raised; branched; 3 brks	69

**Native Hedging Mix (Blackthorn)**

Abbrev.	Botanical Name	Common Name	Girth/ Dia. cm	Height cm	Root Zone	Specification	Qty
ACE CAM	Acer campestre	Common Maple		60-80	B	1+1; Transplant - seed raised	85
COR AVE	Corylus avellana	Common Hazel		60-80	B	1+2; Transplant - seed raised; branched; 3 brks	85
CRA MON	Crataegus monogyna	Common Hawthorn		60-80	B	1+1; Transplant - seed raised	85
PRU PAD	Prunus padus	Bird Cherry		60-80	B	1+1; Transplant - seed raised	85
PRU SPI	Prunus spinosa	Blackthorn		60-80	B	1+1; Transplant - seed raised; branched; 2 brks	422
ROS CAN	Rosa canina	Dog Rose		60-80	B	1+1; Transplant - seed raised; branched; 3 brks	85

**Mixed Landscape Buffer - Native shrub planting**

Abbrev.	Botanical Name	Common Name	Girth/ Dia. cm	Height cm	Root Zone	Specification	Qty
COR SAN	Comus sanguinea	Common Dogwood		60-80	B	1+1; Transplant - seed raised; branched; 3 brks	3
COR AVE	Corylus avellana	Common Hazel		60-80	B	1+2; Transplant - seed raised; branched; 3 brks	4
CRA MON	Crataegus monogyna	Common Hawthorn		60-80	B	1+1; Transplant - seed raised	3
ILE AQU	Ilex aquifolium	Common Holly		60-80	3L	Leader with laterals	2
PRU INS	Prunus insititia	Damson		60-80	B	1+1; Transplant - seed raised; branched; 3 brks	3
SAM NIG	Sambucus nigra	Common Elder		60-80	B	1+1; Transplant - seed raised; branched; 3 brks	2
VIB OPU	Viburnum opulus	Gelder Rose		60-80	B	1+2; Transplant - seed raised; branched; 3 brks	3

**TOTALS 4598**

**Watering:**

Plant stock to receive the following quantities of water:  
 Extra Heavy Standard trees:52 litres each month between April and September  
 Shrubs and transplants:5 litres/plant on three occasions throughout growing season.  
 Watering to be undertaken during the first 24 months.

**Grass cutting:**

Grass shall be cut throughout the growing season to maintain a sward of approximately 38mm. Shall be edged, watered as necessary and clippings removed.

Areas with bulb planting to be left uncut 6 weeks after final flowering. Following this period cut as grass and remove all arisings

**Plant replacements:**

All dead, dying and vandalised plant stock shall be replaced at the end of each growing season throughout the maintenance period.

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A	Minor Amendments	02/03/2018
B	Minor Amendments	09/03/2018
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DRAWING TITLE:  
**Schedule, specifications and maintenance**

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