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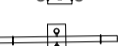

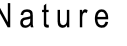
Paving/Hard Landscape

-  Asphalt carriageway
-  Buff Asphalt - Homezones/Shared Surface
-  In-situ Concrete - Exposed Aggregate Finish To public space circulation
-  In-situ Concrete - Brushed Finish to paths
-  Hard Binding Gravel
-  Precast Concrete Paving: Black Granite/Graphite Colour
-  Softfall surface: Bark mulch
-  Bespoke furniture
-  Picnic Bench
-  Timber seating cubes
-  Stainless steel 'sheffield standard' bicycle stands

Soft Landscape

-  Existing Trees to be Retained
-  Large Trees 25-30cm size and above
-  Medium Trees 18-20cm size
-  Small Trees Multi-stems, 16-18cm; standards
-  Clipped Evergreen Hedge Planting: See accompanying Landscape Report for Species Mix
-  Native Hedge Planting or Native Hedgerow: See accompanying Landscape Report for Species Mix
-  Ornamental Pollinator Friendly Mix: See accompanying Landscape Report for Species Mix
-  Flowering Lawn with Willflowers mix and Bulbs: See accompanying Landscape Report for Species Mix
-  Meadow: See accompanying Landscape Report for Species Mix
-  Amenity Lawn: See accompanying Landscape Report for Species Mix

Play Equipment (Sample Spec.)

-  Medium Swing
-  Small hardwood animals
-  Small See saw
-  Medium See saw
-  Jumping Disc

Nature Play Elements

-  Scattered nature play elements: logs, granite boulders, stepping logs, tree trunks

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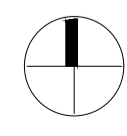
Adjacent proposed development shown dashed - planning ref 071399

Allowance for new cycleway and footpath to Ballymakenny Road - see accompanying drawings by HHP.

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DATE	REV.	DESCRIPTION	DRAWN BY	CHECKED BY
28-03-2024	A	Drawing updated to EML/NMP Entry layouts.	GF/NMF	GF

NOTES:

	3rd Floor Newmarket House Newmarket Square, Dublin 8 Ireland t +353 (0) 1 728522 www.aitgroup.ie		ISSUE STATUS: PLANNING		
	CLIENT: Louth County Council PROJECT: Ballymakenny Housing DRAWING: Landscape Plan	DRAWN BY: MF PROJECT NO: 23LH01	1st ISSUE: 26.02.2024 SCALE: 1:500	REVISION: A DRAWING NO: 23LH01-DR-Bal-0100 SHEET SIZE: A1 CHECKED BY: GF	

Landscape Report - selected paving materials and planting selection

Louth Accelerated Delivery Housing - **Ballymakenny**



February 2024

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1.0 PAVING MATERIALS

ON CURTILAGE PAVING MATERIALS



Precast concrete paving blocks in graphite and light grey colours. Graphite used exclusively beneath parking areas to limit visible staining. Lighter colours used to highlight dwelling entrances and approaches. Driveways to use permeable paving generally.

PUBLIC REALM PAVING MATERIALS



Brushed concrete public footpaths



Black asphalt and/or exposed aggregate concrete - open space **primary** circulation



Hard binding gravel - open space **secondary** circulation



Material changes- used to highlight crossing points and to add variation in public realm materials

2.0 PLANTING & BIODIVERSITY OVERVIEW



Street trees - a primary element in placemaking. Native and naturalised species will be chosen for adaptability to urban environments and ease of establishment.



Street trees - build-outs used to define parking areas and to provide horizontal deflections for traffic calming



Native Species - hedgerows and shelterbelts of native species provide ecological corridors, existing boundary hedgerows or other hedgerows will be retained where feasible.



Meadow planting - provides visual interest over large areas and is a nectar source for pollinating insects. Mown pathways create opportunities for interaction with landscape features. Meadows thrive on less fertile or degraded soils.



Bulb Planting - provides seasonal interest and can be used over large areas.



Ornamental Planting - used in appropriate locations in the public realm to provide visual interest and to establish a sense of place.

3.0 PLAYGROUNDS



General Commentary - playgrounds should feature natural elements such as mounds, berms, logs and boulders. Play pieces composed of natural timber enhance a child's sensory experience and they visually settle more easily into a wider landscape context. Play surfacing is available in a range of materials, bark chip either natural or rubberised compliments a nature based theme. Playgrounds should provide seating for social engagement between parents and for families to spend time in outdoor settings.



4.0 SITE FURNITURE



General commentary - furniture is a key element in placemaking, particularly when it is site specific. Bespoke furniture enhances public spaces even when used sparingly, it can also be used alongside off-the-shelf products to define a hierarchy of open space.





General Commentary - SUDs features such as swales and attenuation basins can easily be incorporated as landscape features if considered at an early stage in the design process. Changes in topography create variation in what otherwise might be flat areas of amenity lawn, swales provide opportunities for biodiverse linear features that define the edges of public open space.

6.0 HOMEZONES

General Commentary - Homezones are shared spaces in naturally slow speed environments such as cul-de-sacs. Cars and pedestrians share equal priority, so unlike conventional estate roads, the line between footpath and carriageway is removed allowing the entirety of the shared space can be inhabited by pedestrians. This effectively enlarges the public realm and encourages drivers to be more cautious as they move slowly through it.



KEY

1. max. 4800mm wide; shared surface carriageway; colour SMA.
2. 1500mm wide verge; surfaced in exposed aggregate concrete or coloured SMA
3. Flush kerb; in-situ or PC concrete
4. Dished footpath to mark gateway to Home Zone
5. On curtilage parking; surfaced in permeable block paving.
6. Road carriageway



Pollinator and Biodiversity Friendly Planting Palette

2024



Pollinator friendly



Biodiversity enhancing



Shade tolerant planting



Sunny exposure planting



Native planting



Sensory mix



Street and avenue trees



Specimen trees, park trees and general



Flowering, ornamental and multi-stem trees



Woodland



Native Hedgerow



Pollinator Friendly Hedging



Wetland



Shrubs



Pollinator Planting



Rain Garden Planting



Meadow



Grassland

7.0 PLANTING



Trees

Street and avenue trees (Semi-mature clear-stem trees)

- Acer campestre* 'Elegant'
- Amelanchier x grandiflora* 'Robin Hill'
- Pyrus calleryana* 'Chanticleer'
- Sorbus aria* 'Majestica' (N)
- Tilia cordata* 'Greenspire'
- Tilia x europaea* 'Euclora'



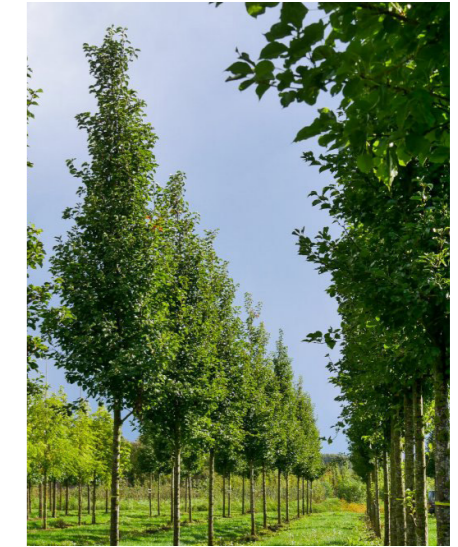
Acer campestre 'Elegant'



Amelanchier x grandiflora 'Robin Hill'



Sorbus aria 'Majestica'



Pyrus calleryana 'Chanticleer'



Specimen trees, feature trees, park trees and general

- Native trees:
- Betula pendula*
 - Pinus sylvestris*
 - Quercus robur*
 - Ulmus glabra*

- Non-native biodiversity friendly trees:
- Acer platanoides* 'Princeton Gold'
 - Acer rubrum* 'October Glory'
 - Aesculus hippocastanum*
 - Fagus sylvatica*
 - Juglans regia*



Acer platanoides 'Princeton Gold'



Acer rubrum 'October Glory'



Aesculus hippocastanum



Juglans regia



Betula pendula



Pinus sylvestris



Quercus robur



Ulmus glabra



Standard trees

- Betula pendula*
- Corylus avellana*
- Pinus sylvestris*
- Prunus padus*
- Quercus robur*
- Sorbus aucuparia*



Betula pendula



Corylus avellana



Pinus sylvestris



Prunus padus

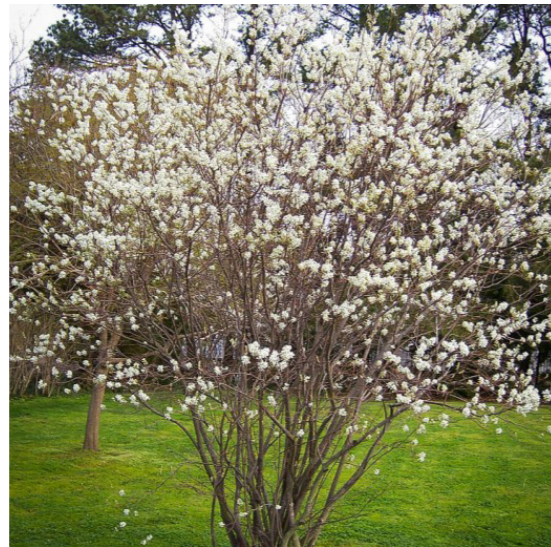


Sorbus aucuparia



Flowering, ornamental and multi-stem trees

- Amelanchier lamarckii*
- Cercidiphyllum japonicum*
- Cornus sp.*
- Corylus avellana* (N)
- Crataegus monogyna* (N)
- Crataegus laevigata* 'Paul's Scarlet'
- Prunus avium* (N)
- Sorbus aucuparia* (N)



Amelanchier lamarckii



Corylus avellana



Crataegus monogyna



Prunus avium



Hx Native hedgerow

Planted at 500mm centres in a double staggered row, 0,9 - 1,2m. ht.

Plants list:

Crateagus monogyna

Corylus avellana

Ilex aquifolium

Malus sylvestris

Prunus spinosa

Prunus avium

Rosa canina

Sambucus nigra

Viburnum opulus



Crataegus monogyna



Prunus spinosa



Rosa canina



Viburnum opulus



Pollinator and Biodiversity Friendly Hedging

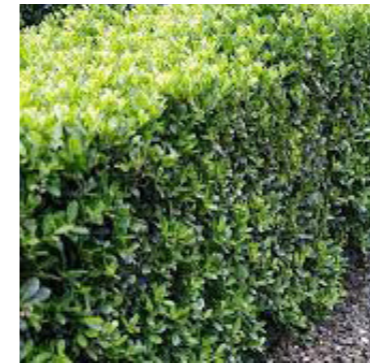
5 Litre pot, cg., 6 Plants Per Square Metre

Ilex aquifolium

Ilex crenata



Ilex aquifolium



Ilex crenata



P Pollinator Planting

PF Full Sun

Majority of the plants listed on All-Ireland Pollinator Plan 2015-2020, Pollinator Friendly Planting Code or the RHS Plants for Pollinators.

Perennials:

Centaurea atropurpurea
Cirsium rivulare
Euphorbia characias,
Echinops bannaticus
Erigeron karvinskianus
Erysimum 'Bredon'
Gerenium 'Rozanne'
Gerenium 'Johnson Blue'
Helleborus argutifolius
Knautia macedonica,
Nepeta 'Kit Kat'
Perovskia atriplicifolia 'Blue Spire'
Pulmonaria officinalis
Rudbeckia fulgida 'Goldstrum'
Salvia nemerosa
Stachys byzantina

Ornamental Grasses and Sedges; for mid-Winter interest, max. 30% of any planted area:

Calamagrostis 'Waldenbuch'
Carex elata (N)
Deschampsia cespitosa
Helictotrichon sempervirens
Molinia Caerulea (N)
Sesleria autumnalis

Bulb Underplanting

Allium c.vars
Narcissus c.vars



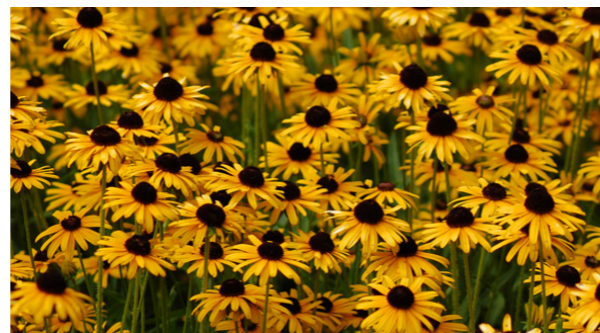
Helictotrichon sempervirens



Allium 'Christophii'



Knautia macedonica



Rubeckia fulgida 'Goldstrum'



PS Shade

Majority of the plants listed on All-Ireland Pollinator Plan 2015-2020, Pollinator Friendly Planting Code or the RHS Plants for Pollinators.

Perennials:

- Anemone hupehensis*
- Anemone x hybrida*
- Bergenia cordifolia* 'Rubra'
- Brunnera 'Jack Frost'
- Brunnera 'Looking Glass'
- Digitalis purpurea*
- Geranium macrorrhizum*
- Helleborus orientale*
- Helleborus 'White Lady'
- Heuchera* 'Lime Marmalade'
- Lysimachia nummularia* 'Aurea'
- Persicaria affinis* 'Darjeeling Red'
- Pulmonaria* 'Blue Ensign'
- Rodgersia* 'Dark Pokers'
- Vinca minor*

Ornamental Ferns; for mid-Winter interest, max. 30% of any planted area:

- Blechnum spicant*
- Dryopteris affinis*
- Polstichum setiferum*

Bulb Underplanting

- Anemone nemerosa* (N)
- Crocus
- Galanthus nivalis*
- Hyacinthoides non-scriptus* (N)



Dryopteris affinis



Bergenia cordifolia 'Rubra'



Brunnera 'Jack Frost'



Rodgersia 'Dark Pokers'



G Meadow and Grassland

GL1 Low Sward Meadow

Suitable for occasional cutting (every 6 weeks approx. from March – October). Suitable for roadside verges as sightlines for traffic safety can be maintained. Leave sward uncut during month of May. Verges can be seeded with a wildflower / grass mix of native species. Remove arising with each cut.

Ratio of Wildflower to Grass Seed; 70:30. Sowing rate 2gr / m2 approx.

Wildflowers:

Lady's Bedstraw	<i>Galium verum</i>
Bugle	<i>Ajuga reptans</i>
Meadow Buttercup	<i>Ranunculus acris</i>
Wild Chamomile	<i>Chamaemelum nobile</i>
Red Clover	<i>Trifolium pratense</i>
Cowslip	<i>Primula veris</i>
Oxeye Daisy	<i>Leucanthemum vulgare</i>
Smooth Hawksbit	<i>Leontodon saxatilis</i>
Ribwort Plantain	<i>Plantago lanceolata</i>
Quaking Grass	<i>Briza media</i>
Selfheal	<i>Prunella vulgaris</i>
Sorrel	<i>Rumex acetosa</i>
Birdsfoot Trefoil	<i>Lotus corniculatus</i>
Yarrow	<i>Achillea millefolium</i>
Kidney Vetch	<i>Anthyllis vulneraria</i>

Native Grasses:

Creeping Bent	<i>Agrostis stolonifera</i>
Crested Dogstail	<i>Cynosurus cristatus</i>
Meadow Fescue	<i>Festuca pratensis</i>
Sheeps Fescue	<i>Festuca ovina</i>
Slender Red Fescue	<i>Festuca rubra</i>
Timothy	<i>Phleum pratense</i>
Smooth Stalked Meadowgrass	<i>Poa pratensis</i>

Bulb Mix (5 bulb types combined in equal proportions, planted 25 bulbs / m2)
 20% *Allium species*, 20% *Crocus*, 20% *Galanthus*, 20% *Narcissus*, 20% *Scilla*

Bulb coverage: 25% of total area



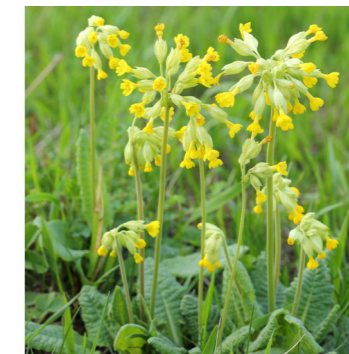
Oxeye Daisy



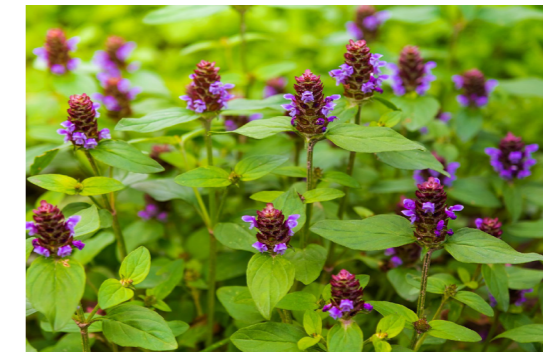
Red Clover



Yarrow



Cowslip



Selfheal



GT Tall Sward Meadow

Suitable for cutting once or twice per annum. Cut every September, cutting can be left for a few days to allow seed to drop from, remove arisings. A second cut can be undertaken during March to remove Winter growth of grasses and vigorous species. Always remove the arisings.

Ratio of Wildflower to Grass Seed; 70:30. Sowing rate 2gr / m2 approx.

Wildflowers:

- Birdsfoot Trefoil
- Black Meddick
- Devil's Bit Scabious
- Corn Marigold
- Corn Poppy
- Corncockle
- Cornflower
- Cowslip
- Eyebright
- Fleabane
- Kidney Vetch
- Lady's Bedstraw
- Lesser Knapweed
- Marjoram
- Scented Mayweed
- Ox-eye Daisy
- Ribwort Plantain
- Red Campion
- Red Clover
- Red Bartsia
- Rough Hawksbit
- Selfheal
- Sorrel
- St Johnswort
- White Campion
- Wild Carrot
- White Clover
- Yarrow
- Yellow Rattle

- Lotus corniculatus*
- Medicago lupulina*
- Succisa pratensis*
- Glebionis segetum*
- Papaver rhoeas*
- Agrostemma githago*
- Centaurea cyanus*
- Primula veris*
- Euphrasia*
- Erigeron*
- Anthyllis vulneraria*
- Galium verum*
- Centaurea nigra*
- Origanum majorana*
- Matricaria chamomilla*
- Leucanthemum vulgare*
- Plantago lanceolata*
- Silene dioica*
- Trifolium pratense*
- Odontites vernus*
- Leontodon hispidus*
- Prunella vulgaris*
- Rumex acetosa*
- Hypericum perforatum*
- Silene latifolia*
- Daucus carota*
- Trifolium repens*
- Achillea millefolium*
- Rhinanthus minor*



Devil's-bit Scabious



Birdsfoot Trefoil



Yellow Rattle



Cornflower



Mayweed



Eyebright



Smooth Hawksbit

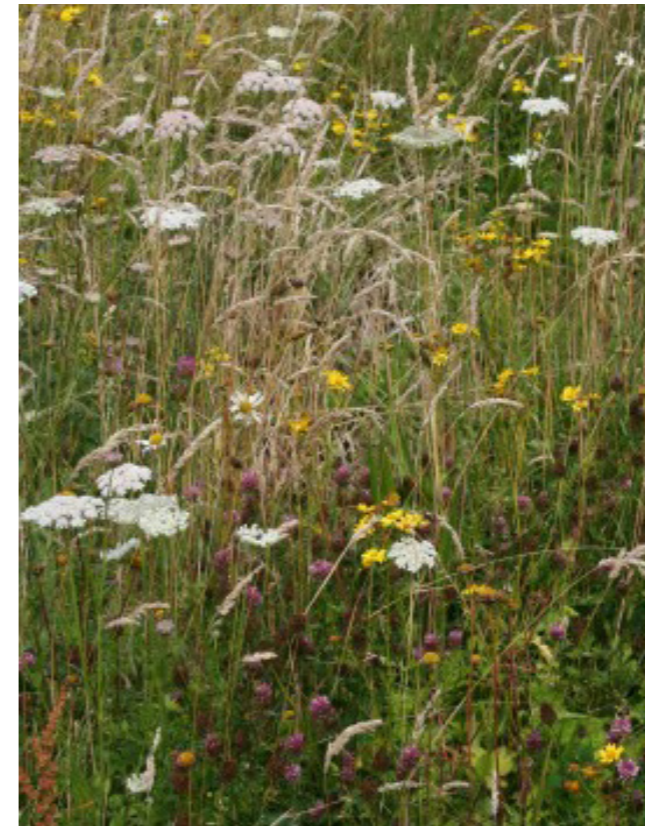


Cowslip

Native Grasses:

- Creeping Bent
- Meadow Fescue
- Red Fescue
- Timothy

- Agrostis stolonifera*
- Festuca pratensis*
- Festuca rubra*
- Phleum pratense*





GB Spring Bulbs and grassland

The majority of the bulb species and varieties selected below are recognised as being pollinator friendly and therefore of benefit to local populations of nectar eating insects such as Bees and Butterflies.

Sow as bulbs in October through seeded verges or planting beds. Leave foliage uncut for a minimum of 3 weeks after flowering. Can be left longer if mixed with later flowering species. Remove arisings.

Bulbs:

Shade tolerant mix of bulbs for around the base of trees:

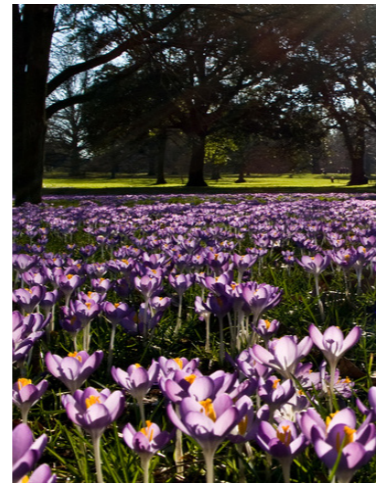
Wild Garlic	<i>Allium ursinum</i>
Wood Anemone	<i>Anemone nemerosa</i>
Snowdrop	<i>Galanthus nivalis</i>
Bluebell	<i>Hyacinthoides non scriptus</i>

Open aspect:

Allium	<i>Allium 'Gladiator'</i> <i>Allium 'Purple Sensation'</i> <i>Allium 'Mount Everest'</i> Crocus c.vars.; white, lilac and purple
Crocus flowering varieties.	
Autumn Flowering Crocus	<i>Crocus sativus</i>
Fritillary	<i>Fritillaria meleagris</i>
Grape hyacinth	<i>Muscari aremeniacum</i>
Dwarf daffodils	<i>Narcissus 'Tete a tete'</i>

Native Grasses:

Creeping Bent	<i>Agrostis stolonifera</i>
Crested Dogstail	<i>Cynosurus cristatus</i>
Meadow Fescue	<i>Festuca pratensis</i>
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Timothy	<i>Phleum pratense</i>
Smooth Stalked Meadowgrass	<i>Poa pratensis</i>



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urbanism + landscape

3rd Floor,
Newmarket House,
Newmarket Square,
Dublin 8.



Registered
Landscape
Architect

Registered Trademark 248769 with the
Irish Patents Office

e: margaret@ait-place.ie

t: (086)3263466

w: www.ait-place.ie