

# Cherry Orchard Point - Phase 2

LANDSCAPE MATERIALS, EQUIPMENT AND PLANTING REPORT  
December 2024

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# Materials and equipment



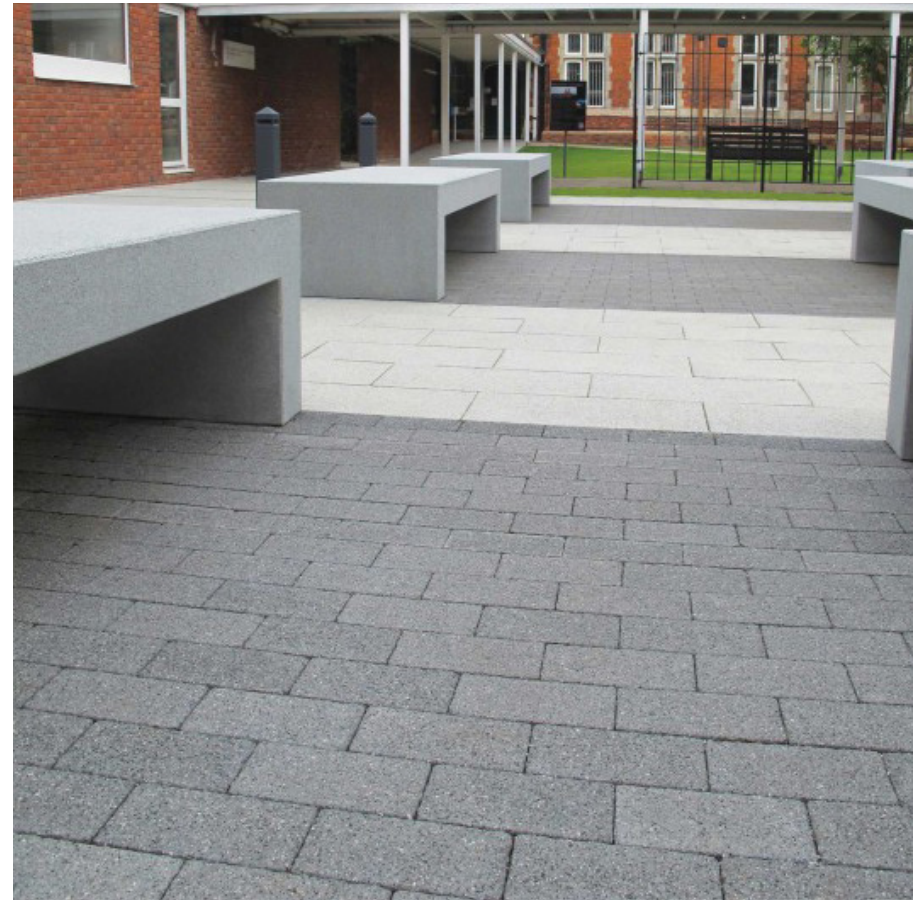
# Introduction

## MATERIALS AND EQUIPMENT

The selection of materials is determined by several factors, so as well as complying with appropriate BS and EN standards, the selection of families of materials and furniture will give visual cohesion as well as ease in the repair and replacement of elements that become damaged. In a new-build situation, the textures and colours are selected to give visual and sensory interest to the scheme, as well as creating a new sense of place and identity.

# Surfacing

## MATERIALS AND EQUIPMENT



Permeable pre-cast concrete textured tiles for ground floor patios with double row of PC concrete setts as edging detail.

Permeable paving chosen to benefit sustainable drainage in line with Dublin City Development plan and national guidelines.



Impermeable pre-cast concrete paving with granite finish for woonerf shared surface and footpaths, with pre-cast concrete kerb with granite finish.

Mid grey and graphite colours are proposed, creating a simple pattern for the woonerfs as indicated on the landscape plan

Permeable pre-cast concrete paving with granite finish for car parking and community courtyards, with pre-cast concrete kerb with granite finish.

Permeable paving chosen to benefit sustainable drainage in line with Dublin City Development plan and national guidelines.



# Surfacing

## MATERIALS AND EQUIPMENT



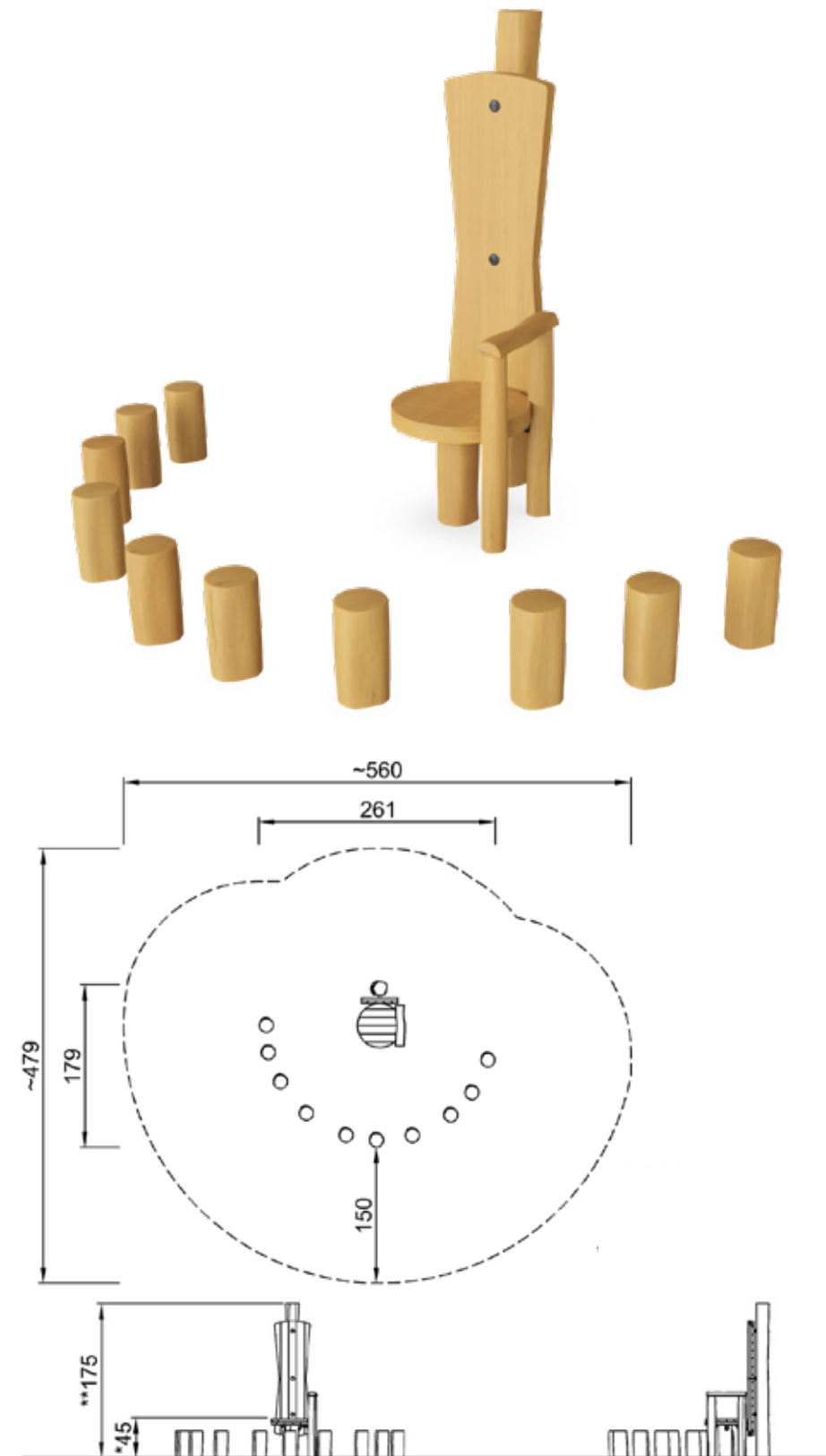
Compacted gravel path to visitor bike parking, buff colour.



Permeable buff coloured tarmac to main pedestrian and cycle link of the north-south Green spine.  
Permeable paving chosen to benefit sustainable drainage in line with Dublin City Development plan and national guidelines.

# Play equipment

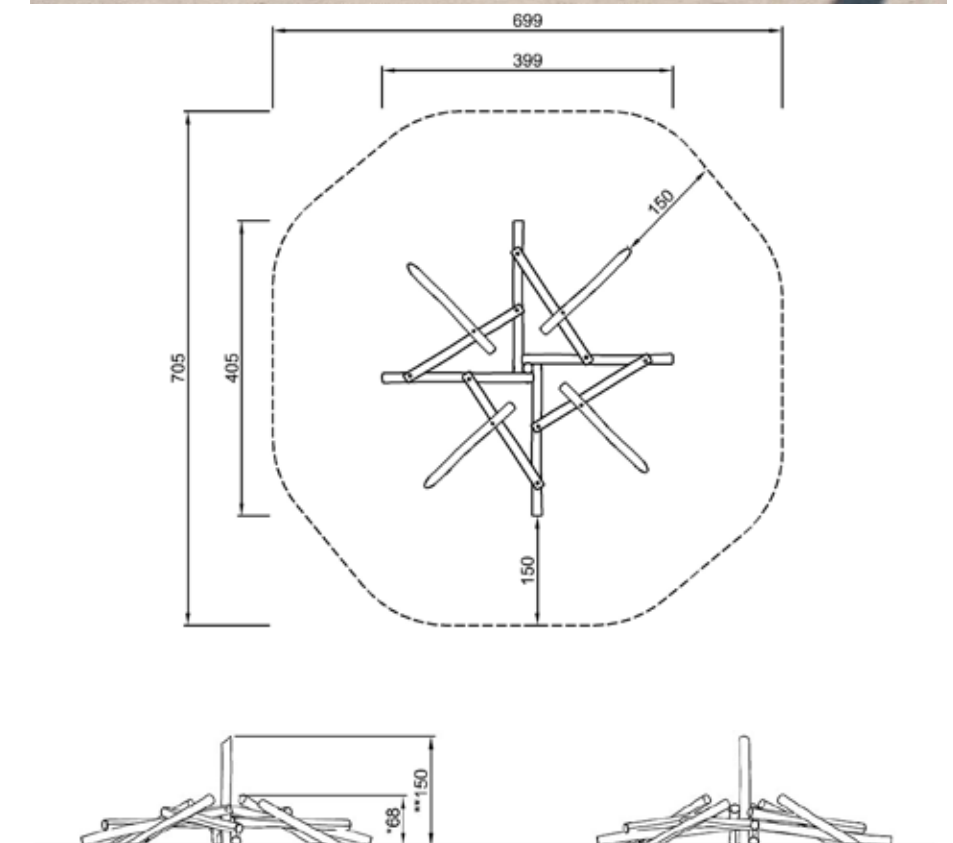
MATERIALS AND EQUIPMENT



Incidental play - 1no fairytale throne  
Age group: 1+ years  
Play capacity: 11 users  
Materials: timber



Incidental play - 2no hammocks in the cherry orchard  
Age group: 3+  
Play capacity: 2 users  
Materials: timber, PES ropes, stainless steel brackets



Incidental play - 1no climbing pyramid  
Age group: 4+  
Play capacity: 6 users  
Materials: timber



# Furniture

## MATERIALS AND EQUIPMENT



Table tennis table to Green spine.



Age friendly seats with armrests and backrests to woonerf streets and Green spine.



Stainless steel bollards and removable bollards.



# Bicycle parking

## MATERIALS AND EQUIPMENT

Covered and secured long term bicycle parking for duplexes is provided in the communal courtyards in covered cages with two tier bike parking with gas strut, while sheffield type visitor parking is provided in the public space, integrated into the landscaping at main entrances to courtyards.





# Planting



# NATURAL EDGE - NATIVE PLANTING

## PLANTING

### Natural edge planting to the M50 and northern site boundary

#### NATIVE WILDFLOWER MEADOW SEED MIX

from Irish provenance, mixed with grass seed  
Species: Annual Mayweed, Birdsfoot Trefoil, Black Meddock, Bladder Campion, Bluebell, Burdock, Cat’s Ear, Common Sorrel, Corn Marigold, Corn Poppy, Corn Spurry, Corncockle, Cornflower, Cowslip, Devil’s-bit Scabious, Eyebright, Field Scabious, Flag Iris, Fleabane, Foxglove, Garlic Hedge Mustard, Hemp Agrimony, Hoary Plantain, Kidney Vetch, Ladies Ann Lace, Lady’s Bedstraw, Common Centaury, Lesser Knapweed, Musk Mallow, Marjoram, Meadow Buttercup, Meadowsweet, Mullein, Ox-Eye Daisy, Pineapple Mayweed, Purple Loosestrife, Ragged Robin, Red Bartsia, Red Campion, Red Clover, Ribwort Plantain, Rough Hawksbit, Selfheal, Shepherd’s Purse, Smooth Hawksbit, St. Johnswort, Teasel, Vetch Common, Weld, White Campion, Wild Angelica, Wild Carrot, Wild Valerian, Woundwort, Yarrow, Yellow Agrimony, Yellow Rattle

#### NATIVE MICRO-FOREST PLANTING

To reinforce existing woodland buffer along M50  
Inspired by the Miyawaki method. 17 species of native trees and shrubs to develop in time the forest multi-storey structure - with emerging tree layer, tree layer, sub-tree layer and shrub layer. By combining this large variety of plants, a complex habitat will develop attracting much biodiversity. Whip planting (seedlings) in planting density 4 plants/sqm. Additional groundcover native planting of ivy, ferns and native bulb planting for seasonal interest.

#### Emerging tree layer: (15% of mix)

- 5% Pedunculate oak *Quercus robur*, Irish provenance
- 5% Sessile oak *Quercus petraea*, Irish provenance
- 5% Scots pine *Pinus sylvestris*, Irish provenance

#### Tree layer (40% of mix)

- 20% Alder *Alnus glutinosa*
- 10% Cherry\* *Prunus avium*
- 5% Downy birch *Betula pubescens*
- 5% Silver birch *Betula pendula*

#### Sub-tree layer (25% of mix)

- 5% Forest apple\* *Malus sylvestris*
- 10% Hawthorn\* *Crataegus monogyna*
- 5% Hazel *Corylus avellana*
- 5% Holly\* *Ilex aquifolium*

#### Shrub layer (15% of mix)

- Blackthorn\* *Prunus spinosa*
- Blackberry\* *Rubus fruticosus*
- Doge rose\* *Rosa canina*
- Elderberry\* *Sambucus nigra*
- Guelder rose\* *Viburnum opulus*
- Spindle *Euonymus europaeus*

#### Climbers and groundcover:

- Honeysuckle\* *Lonicera periclymenum*, climber
- Ivy\* *Hedera hibernica*, main groundcover

- Hard fern *Blechnum spicant*  
- in groups locally for additional interest
- Lady fern *Athyrium filix femina*  
- in groups locally for interest
- with bulbs:  
Snowdrops\* (*Galanthus nivalis*), Bluebells\* (*Hyacinthoides non-scripta*)
- Native tree line to edge of microforest
- Scots pine *Pinus sylvestris*
- Alder tree *Alnus glutinosa*
- Birch tree *Betula pendula*

#### SWALES - NATIVE PLANTING

- Flowering rush\* *Butomus umbelatus*
- Greater pond sedge *Carex riparia*
- Large sedge *Carex pendula*
- Marsh marigold\* *Caltha palustris*
- Meadowsweet\* *Filipendula ulmaria*
- Oxeye Daisy\* *Leucanthemum vulgare*
- Purple loosestrife\* *Lythrum salicaria*
- Reed sweet grass *Glyceria maxima*
- Soft rush *Juncus effusus*
- Tufted hair grass *Deschampsia caespitosa*
- Water mint\* *Mentha aquatica*
- Yellow iris\* *Iris pseudacorus*

Pollinator friendly species marked with asterisks \*



Natural swale planting, reference: Quirijn park, Tilburg



Native wildflower meadow, illustrative picture



Native microforest planting



# NATURAL EDGE - AIR PURIFICATION

## PLANTING

WOODLAND REINFORCEMENT TO M50 WITH FOCUS ON APPROPRIATE

NATIVE TREE SPECIES SUITABLE FOR AIR PURIFICATION:

- Alder (*Alnus glutinosa*)
- Oak (*Quercus petraea*, *Quercus robur*)
- Hawthorn (*Crataegus monogyna*)
- Pine (*Pinus sylvestris*)

CREATING A MULTI STOREY DENSE WOODLAND STRUCTURE

Using the Miyawaki inspired microforest planting method



## LITERATURE:

EFFECTIVE TREE SPECIES FOR LOCAL AIR QUALITY MANAGEMENT  
Beckett, K. P., Freer Smith, P. H., & Taylor, G. (2000). Effective tree species for local air quality management. *Arboricultural Journal*, 26(1), 12-19.

DESIGNING VEGETATION BARRIERS FOR URBAN AIR POLLUTION ABATEMENT: A PRACTICAL REVIEW FOR APPROPRIATE PLANT SPECIES SELECTION  
Barwise, Y., & Kumar, P. (2020). Designing vegetation barriers for urban air pollution abatement: A practical review for appropriate plant species selection. *Npj Climate and Atmospheric Science*, 3(1), 1-19.



# SEMI-NATURAL PLANTING TO GREEN SPINE AND STREETS

## PLANTING

### STREET TREE PLANTING

A combination of native street tree planting suitable for bioretention planting strip and pollinator friendly tree planting has been selected.

Alder tree	<i>Alnus glutinosa</i>
Birch tree	<i>Betula pendula</i>
Apple tree*	<i>Malus toringo</i>
Birdcherry*	<i>Prunus padus</i>
Linden tree*	<i>Tilia x Europaea</i>

### FRUIT TREES TO SOFT LANDSCAPING

Cherry tree*	<i>Prunus avium</i> , diverse varieties, to cherry orchard
Walnut tree	<i>Juglans nigra</i>
Plums and damsons*	<i>Prunus domestica</i> , mix of Irish varieties
Ash tree, edible*	<i>Sorbus aucuparia</i> var. <i>edulis</i>

### NATIVE WILDFLOWER MEADOW SEED MIX

Native planting as per Natural edge

### SWALES - NATIVE PLANTING

Native planting as per Natural edge

### RAINGARDENS - NATIVE PLANTING

Creeping Jenny*	<i>Lysimachia nummularia</i>
Cuckoo flower	<i>Cardamine pratensis</i>
Devil's bit scabious	<i>Succisa pratensis</i>
Hemp agrimony*	<i>Eupatorium cnabinum</i>
Large sedge	<i>Carex pendula</i>
Marsh marigold*	<i>Caltha palustris</i>
Meadowsweet	<i>Filipendula ulmaria</i>
Oxeye Daisy*	<i>Leucanthemum vulgare</i>
Purple loosestrife*	<i>Lythrum salicaria</i>
Ragged robin*	<i>Silene flos-cuculi</i>
Red campion	<i>Silene dioica</i>
Sneezewort*	<i>Achillea ptarmica</i>
Soft rush	<i>Juncus effusus</i>
Square-stalked St John's wort	<i>Hypericum tetrapterum</i>
Tufted hair grass	<i>Deschampsia caespitosa</i>
Water avens*	<i>Geum rivale</i>
Water mint*	<i>Mentha aquatica</i>
Yellow iris*	<i>Iris pseudacorus</i>

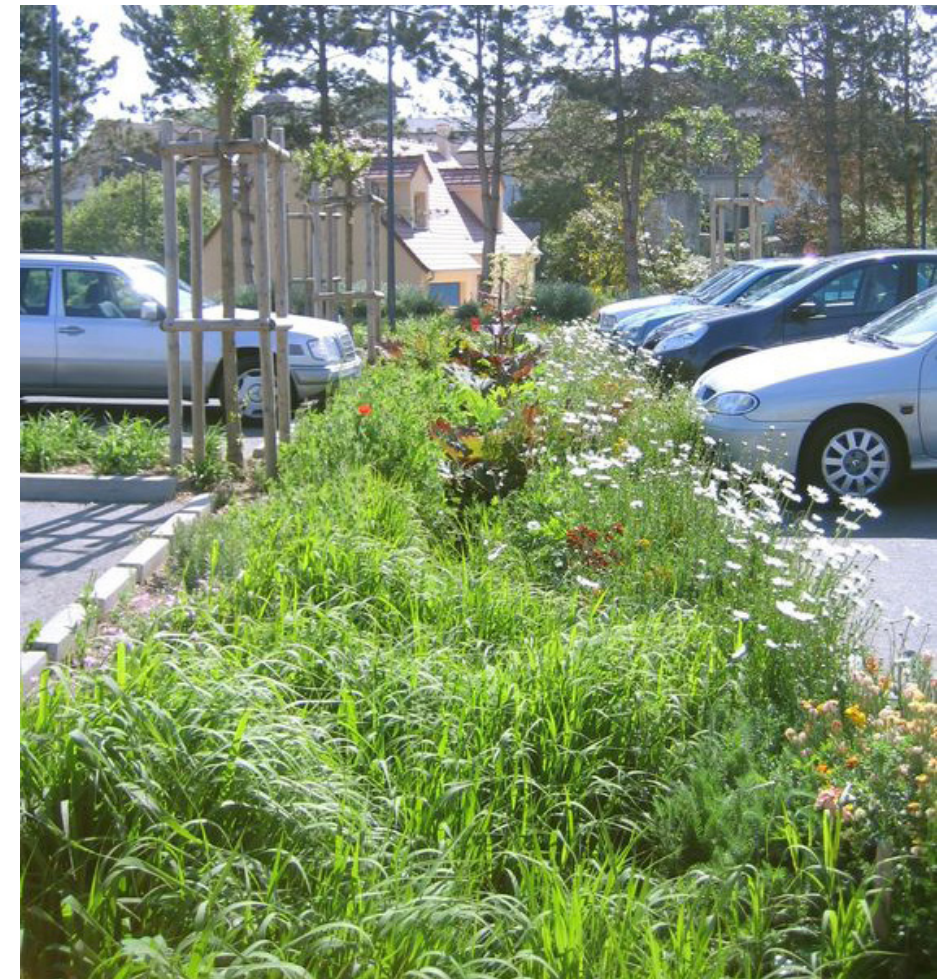
Pollinator friendly species marked with asterisks \*



Cherry orchard as part of the fruit tree planting in the public space



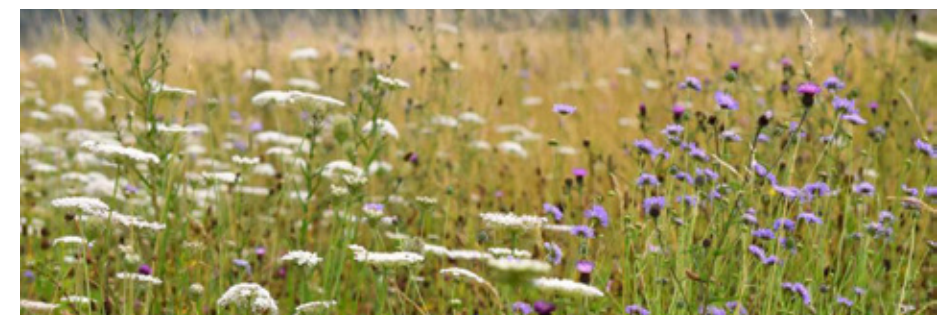
Linden tree as street feature tree to woonerf streets, pollinator friendly



Natural swale planting



Natural swale planting, reference: Quirijn park, Tilburg



Native wildflower meadow, illustrative picture



# COURTYARDS AND PRIVATE GARDENS

## PLANTING

### COURTYARDS

Privacy planting strip to groundfloor patios is provided with edible herbs, edible flowers and berry bearing shrubs, including evergreen and flowering plants.

An amenity lawn is provided in communal courtyards with fruit tree planting.

#### Fruit trees

Mulberry	<i>Morus nigra</i>
Service tree*	<i>Sorbus domestica</i>
Cherry tree*	<i>Prunus avium</i>
Pear tree*	<i>Pyrus communis</i>

#### Edible hedging

Mix of more classic berry bearing deciduous shrubs with evergreen edible berry bearing shrubs for increased privacy screening.

Currants *	<i>Ribes rubrum, ribes nigrum</i>
Gooseberries	<i>Ribes uva-crispa</i>
Raspberry	<i>Rubus idaeus</i>
Bay laurel	<i>Laurus nobilis</i> , evergreen
Checkerberry	<i>Gaultheria shallon</i> , evergreen
Silverberry*	<i>Eleagnus x ebbingei</i> , evergreen
Tea plant	<i>Camelia sinensis</i> , evergreen

#### Perennial edible and medicinal herbs and edible flowers planting mix

Anise hyssop*	<i>Agastache officinalis</i>
Bellflowers*	<i>Campanula</i> , native, semi-evergreen
Cardoon*	<i>Cynara cardunculus</i>
Chamomile	<i>Chamaemelum nobile</i> , native
Chives*	<i>Allium schoenoprasum</i>
Fennel*	<i>Foeniculum vulgare</i>
Forget-me-not*	<i>Myosotis sylvatica</i>
Great yellow gentian	<i>Getiana lutea</i>
Hyssop*	<i>Hyssopus officinalis</i> , evergreen
Lavander*	<i>Lavandula angustifolia</i> , evergreen
Lemon balm	<i>Melissa officinalis</i>
Lemon verbena	<i>Aloyisia citriodora</i>
Mint*	<i>Mentha piperita</i>
Musk mallow	<i>Malva moschata</i> , native
Oregano*	<i>Origanum vulgare</i> , native
Oregon grape*	<i>Mahonia aquifolium</i>
Purple coneflower*	<i>Echinacea purpurea</i>
Roses*	<i>Rosa villosa</i> , <i>Rosa rugosa</i> 'Blanc Double de
Coubert'	
Rosemary*	<i>Rosmarinus officinalis</i> , evergreen
Sage*	<i>Salvia officinalis</i> , evergreen
Saffron*	<i>Crocus sativus</i> , bulbs
St John's wort	<i>Hypericum perforatum</i> , native
Valerian	<i>Valeriana officinalis</i> , native
Vervain	<i>Verbena officinalis</i> , native

Viola - mix	<i>Viola</i> , evergreen
Yarrow	<i>Achillea millefolium</i> , native

### PRIVATE GARDENS

Private gardens are grass seeded and small fruit trees are planted throughout the gardens (1 per plot) to contribute to the overall biodiversity of the site.

#### Fruit trees

Serviceberry*	<i>Amelanchier alnifolia</i> 'Smokey'
Quince*	<i>Cydonia oblonga</i> 'Leskovacka'
Apple tree*	<i>Malus</i> sp., mix of Irish heritage varieties

Pollinator friendly species marked with asterisks \*



Small fruit trees to private gardens



Fruiting hedges, from the top: Gaultheria Shallon, Ribes rubrum, Eleagnus x ebbingei



Herb planting





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