

Site 4070

LANDSCAPE CONCEPT

K2

CITYWEST BUSINESS CAMPUS

**Martin Hallinan
Citywest Landscape Architect**

July 2022



EXISTING VEGETATION.

The Site

The site vegetation consists of wild meadow and the natural regeneration of an on site nursery planted during the first phase of Citywest in 1993. The species originally planted included Beech (*Fagus sylvatica*), Alder (*Alnus glutinosa*), Ash (*Fraxinus excelsior*), Holly (*Ilex aquifolium*), Hawthorn (*Crataegus monogyne*), Scots Pine (*Pinus sylvestris*).

The proposed planting scheme is based on a similar plant mix to integrate the site into the established Citywest landscape.

The boundary to the eastern side of the development.

The eastern boundary is defined by a mature alder (*Alnus*) hedge line and ditch. The existing hedge line has been partially removed by the adjoining site. The retained hedge is to be retained and protected before and during construction and gaps replanted with *Crataegus*.

The boundary to the southern side of the development.

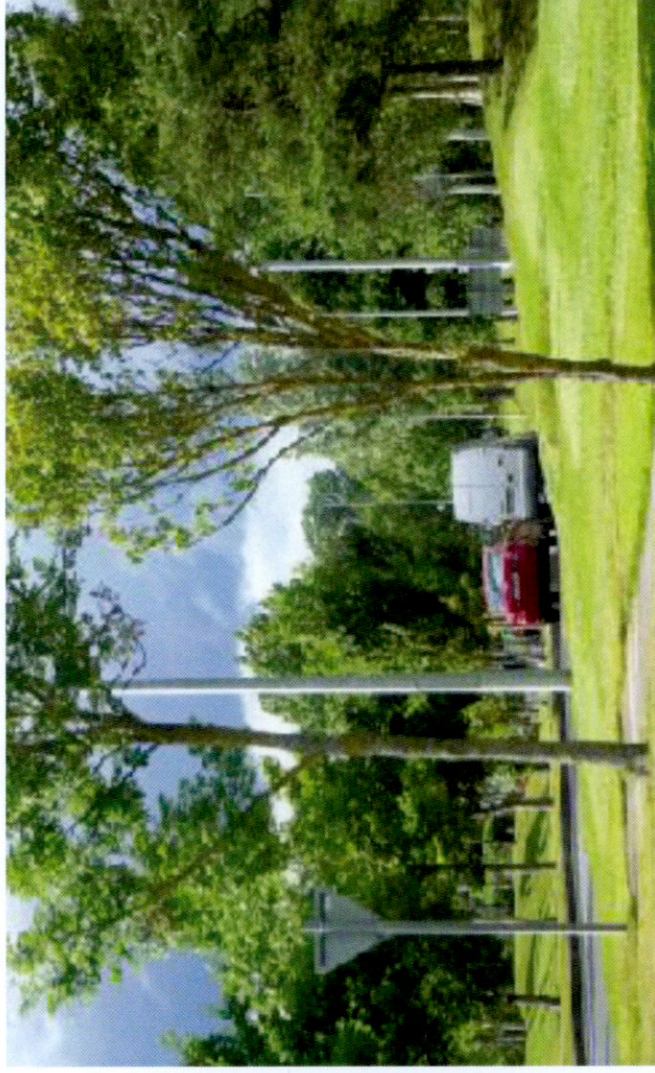
The southern boundary is defined by semi mature planting to the adjacent site of KAL. The trees to be removed are as per the existing Planning Permission, see arboriculturist report.

The boundary to the western side of the development.

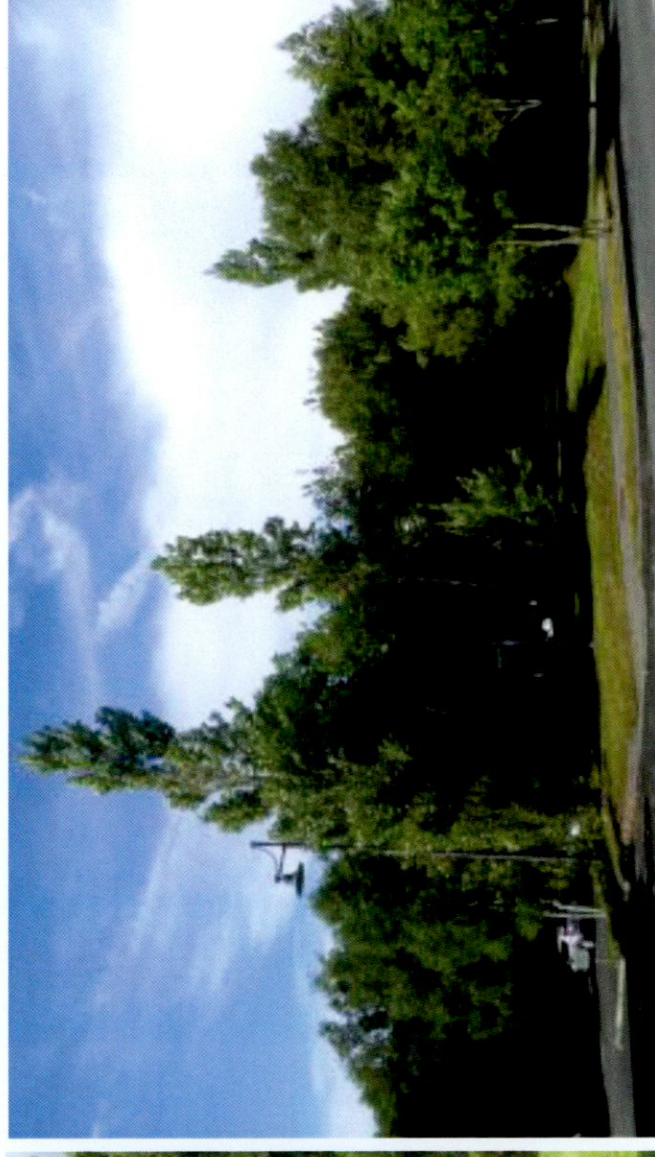
The western boundary has no trees on site but bounding onto tree lined Kingswood Road.



southern Boundary



Kingswood Road to the east



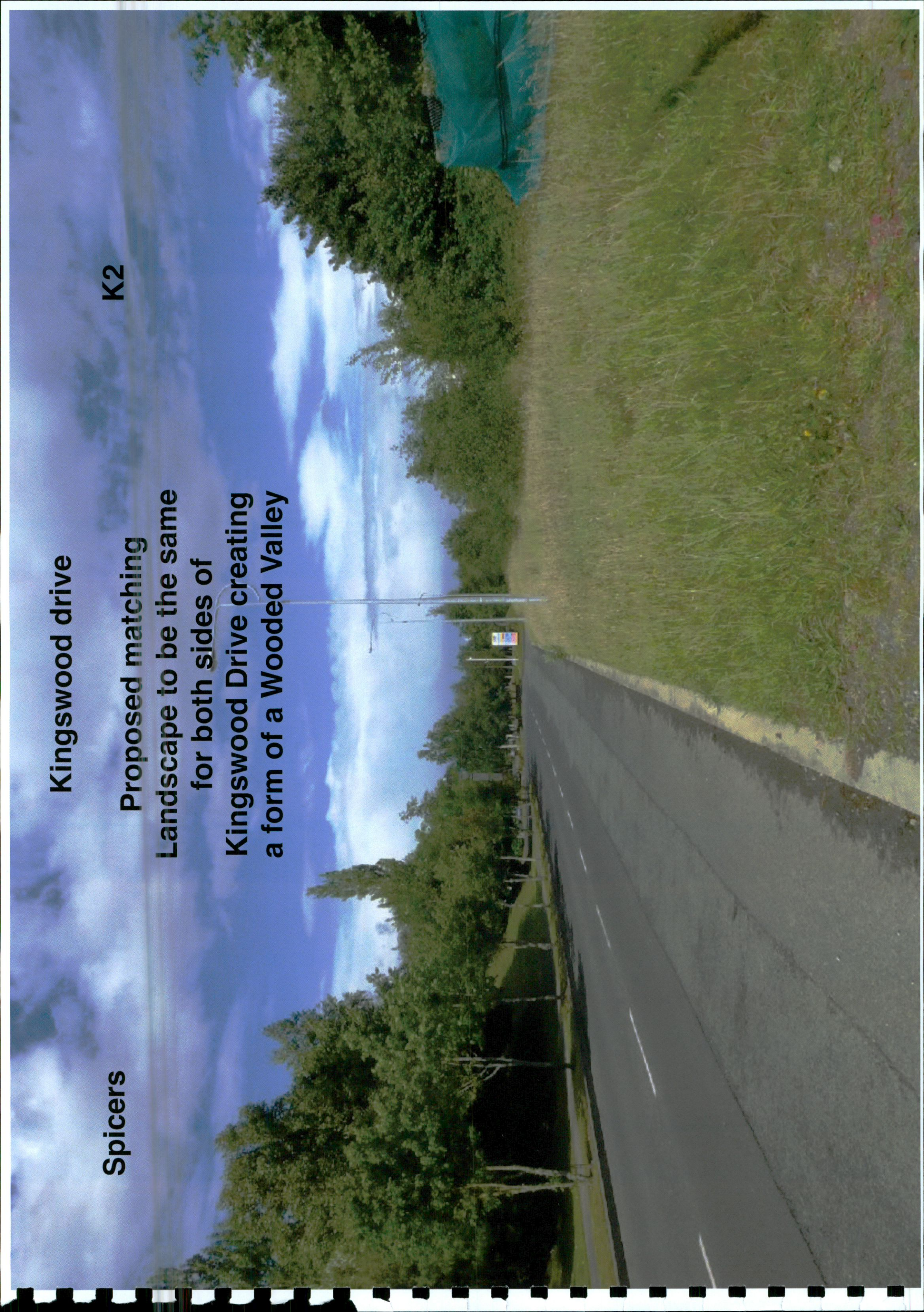
Northern Boundary

Spicers

Kingswood drive

K2

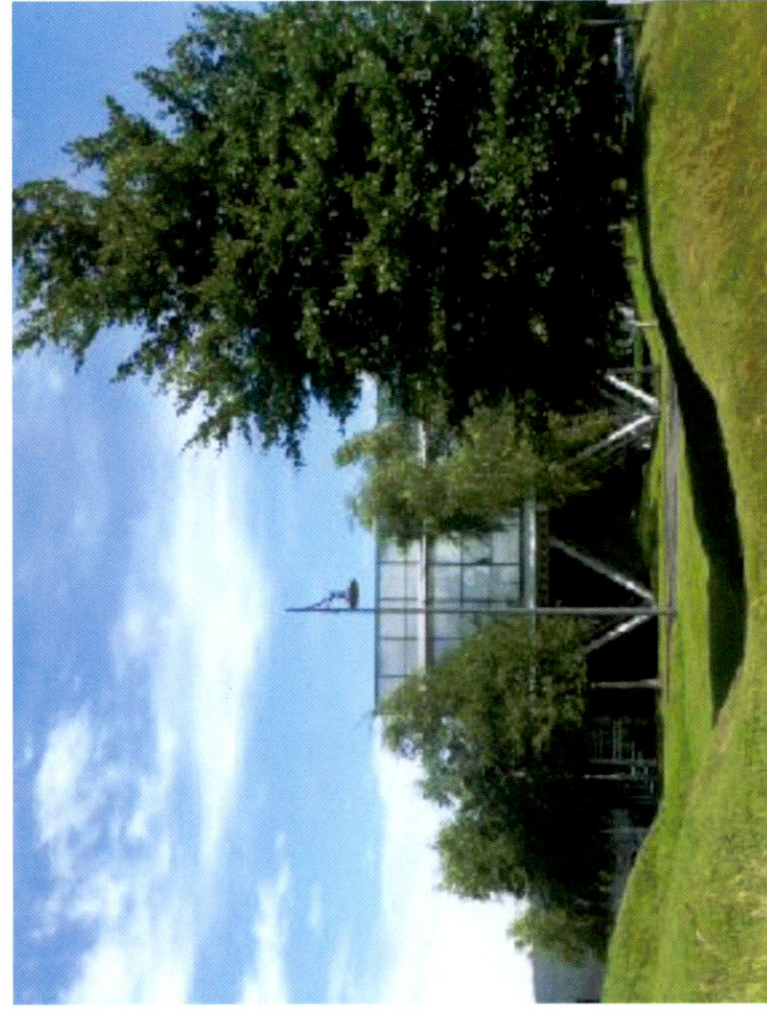
**Proposed matching
Landscape to be the same
for both sides of
Kingswood Drive creating
a form of a Wooded Valley**



LANDSCAPE CONTEXT OF ADJACENT SITES DEVELOPMENTS

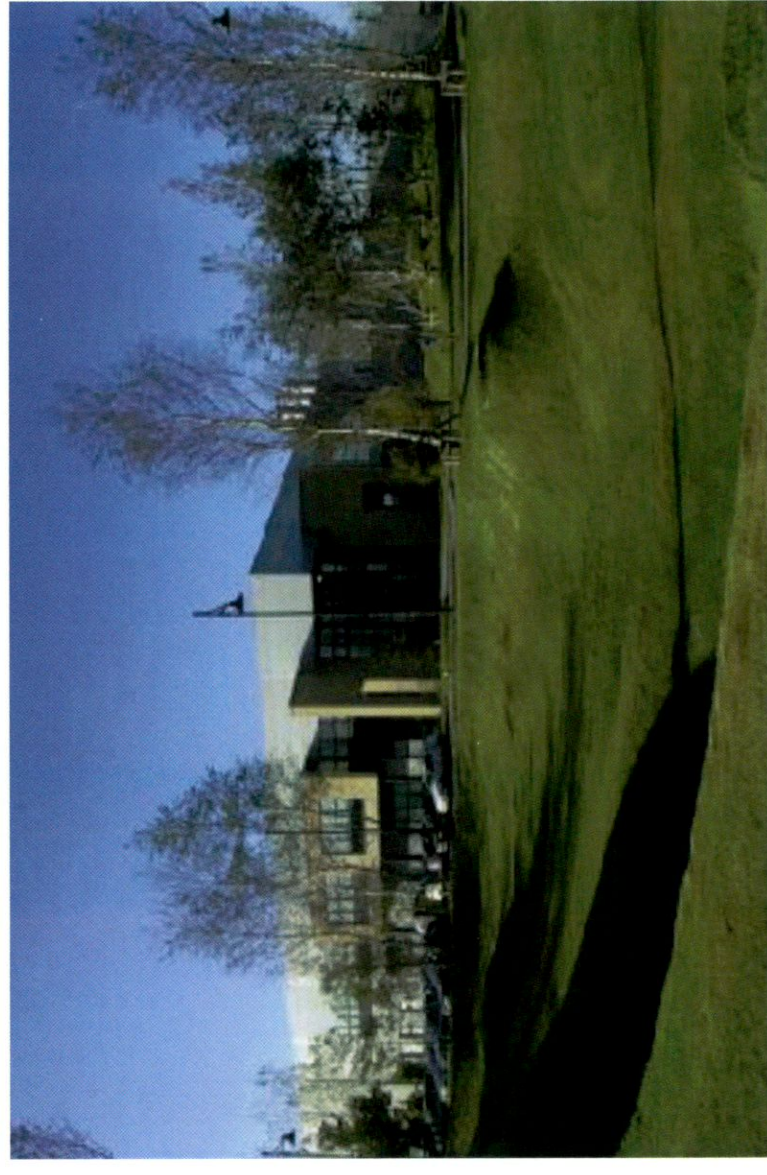


SPICERS to the north of the proposal



KAL to the south of the proposal

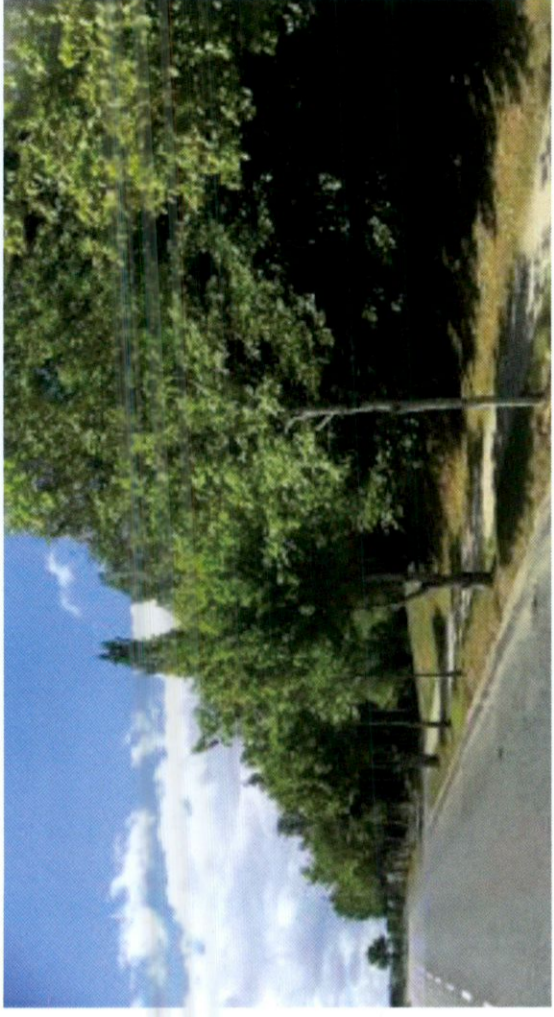
The proposed landscape of the development is a continuity of the Citywest concept of integrating developments with landform and woodland planting



BT to the west of the proposal



Kingswood Drive - Existing landscape of a Wooded Hillside to the North (Spicers) to be matched to the south side (K2) creating a wooded valley landscape



Existing Kingswood Drive to the North side (Spicers)



Kingswood Drive Existing example of Mature Woodland Screen to Loading Bay Area (Spicers) to be matched to the south side (K2)



Existing Ground modelling and woodland planting at the junction of Kingswood Road and Kingswood Drive (Spicers)

CITYWEST EXAMPLES OF INTEGRATING INDUSTRIAL STRUCTURES INTO THE LANDSCAPE



SPICERS example to the north of the proposal












Orchard Avenue example, Citywest

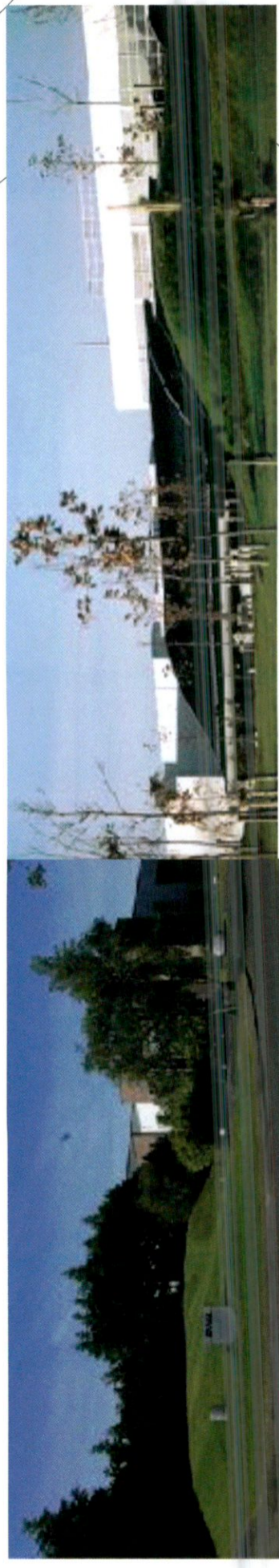
Large structures require an equally large landscape to accommodate them.

This is achieved in Citywest by ground modelling, which creates a natural cradle into which the building sits, whilst also minimising soil material removed off site. It additionally creates an IMMEDIATE landscape impact.

This landform is then planted with woodland of mixed age structure, both deciduous and evergreen, which then create their own microclimate and protection from exposure and the elements

-  MOWN GRASS
-  DECIDUOUS WOODLAND
-  CONIFEROUS WOODLAND
-  REINFORCED GRASS
-  EXISTING MATURE HEDGEROW 2m WIDE (protected before site commencement)
-  SECTION OF HEDGEROW REMOVED BY OTHERS
-  SECURITY FENCE LINE
-  PROPOSED CONTOURS
-  EXISTING TREE GROUP NO. 1 (see arboricultural report)

EXAMPLES OF LANDFORM AT CITYWEST



PROPOSED LANDFORM

Landform is proposed to heights of 6m + to ;

1. reflect the ground shape on adjacent sites,
2. to 'drop' the building into a natural cradle,
3. to provide instant height to planting and improved planting conditions.
4. to provide shelter.

The shape is critical in a natural form, showing a dip slope and scarp slope, as if a natural force had created them.










This can best be done by on site supervision and working with the earth moving machines by the Landscape Architect



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K2 DATA CENTRE DUBLIN
LANDFORM



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Citywest Crataegus



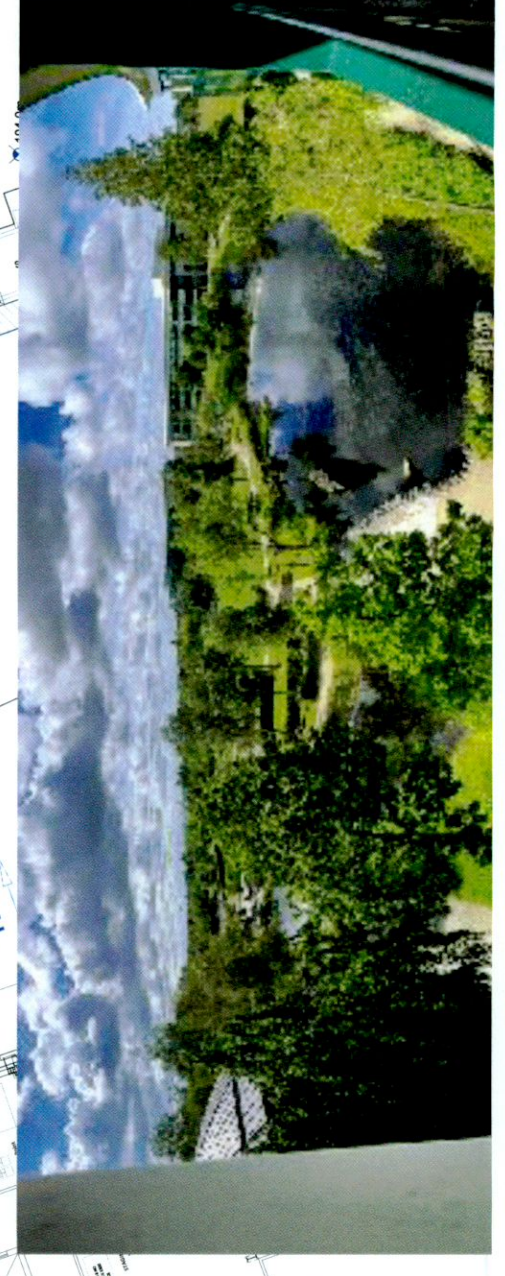
Citywest Pine

PROPOSED WOODLAND HILLSIDE

Citywest is exposed to the SW winds from the Dublin Mountains. The proposed landform creates a locally sheltered microclimate for both users and planting. By planting woodland at 1-1.5m centres of varying species and size, the woodland begins to create a natural age structure with the more exposed protecting those more sheltered.

Evergreen Pine woodland is planted to the high ground to the south of the mound for all round screening, with minimum leaf litter and tolerance of exposure.

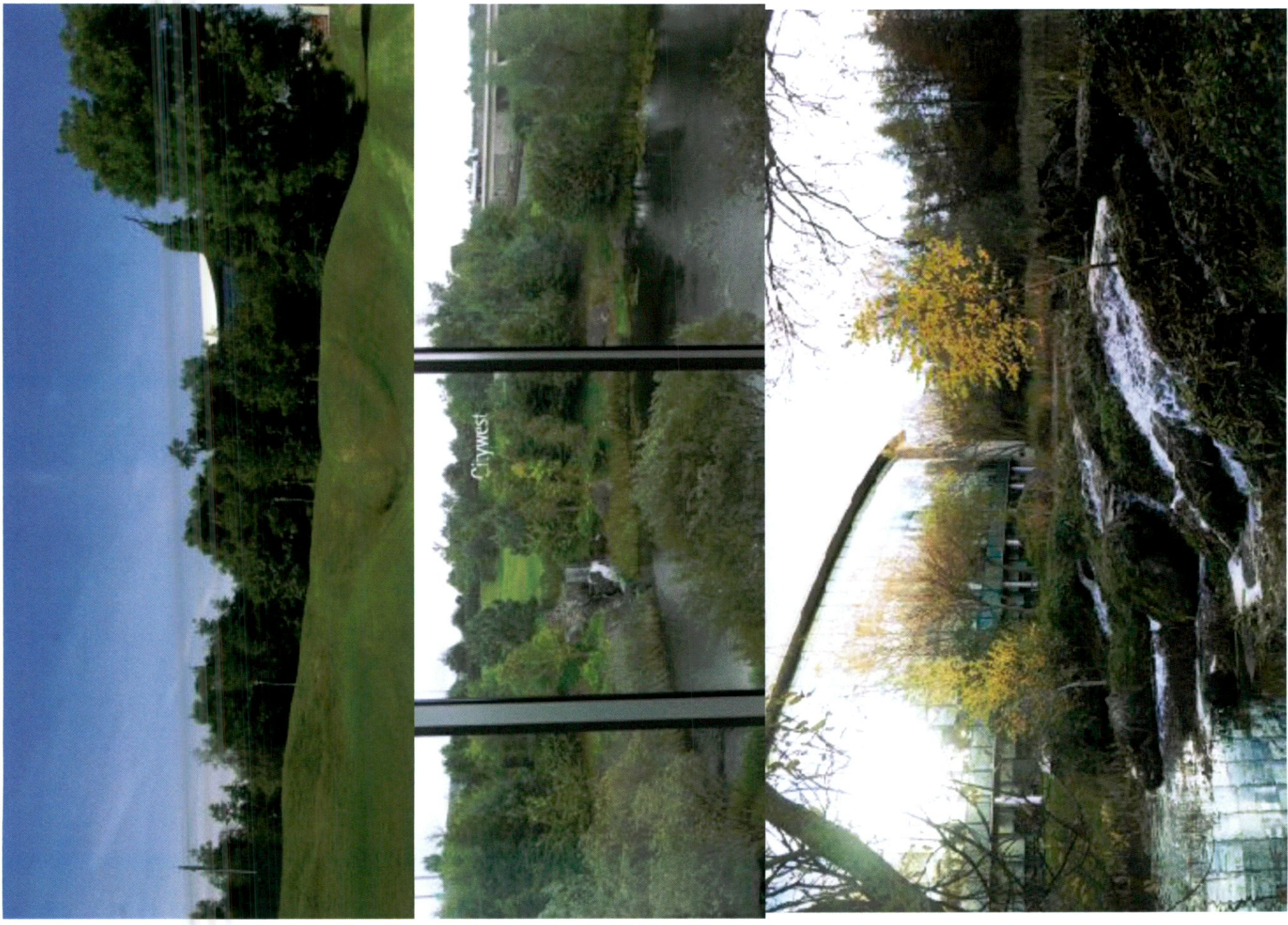
Deciduous planting providing seasonal colour is planted to the north and sheltered side of the hillside and Kingswood Drive



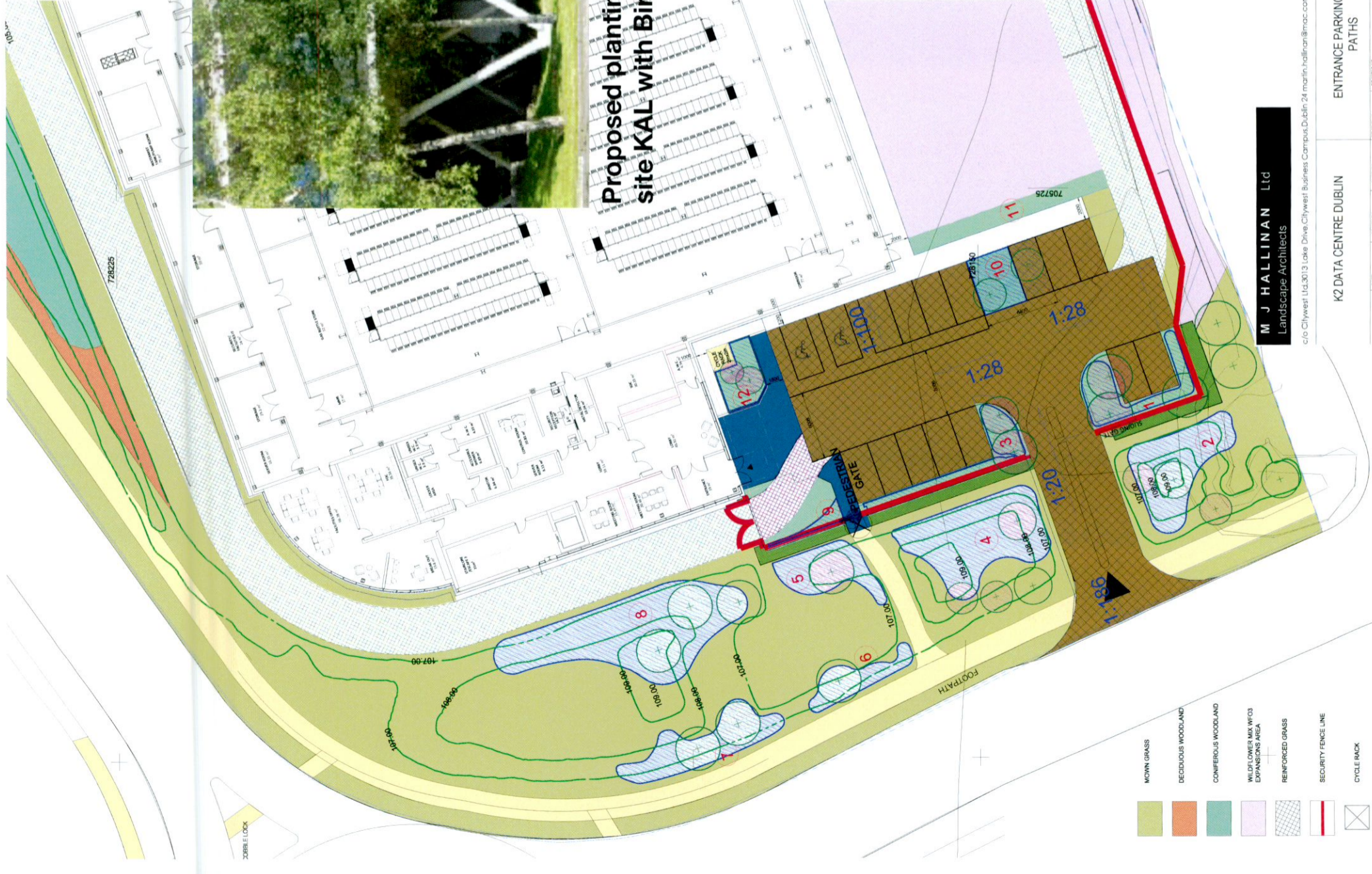
Typical Citywest Mixed Woodland Landscape

Spec	Area sq m	%	D-Zone 1	Specimens	E-Zone 1	E-Zone 2	E-Zone 3	E-Zone 4	Hedge
Mixed Deciduous Zone 1	455								
Acer cappadocicum		5	15						
Alnus laciniata		15	60						
Alnus laciniata		5	20						
Betula pendula		5	20						
Betula pubescens		15	60						
Betula pubescens		5	15						
Carpinus betulus		5	20						
Fagus sylvatica		10	40						
Quercus cerris		5	20						
Quercus palustris		5	20						
Quercus petraea		5	20						
Quercus rubra		8	35						
Sorbus asplenifolia		5	20						
Sorbus vilmorinii		7	25						
Pine Evergreen Zone 1	910								
Larix decidua		10		45					
Picea abies		10		30					
Picea sitchensis		10		45					
Pinus nigra		25		110					
Pinus nigra		5		20					
Pinus sylvestris		30		150					
Pinus sylvestris		5		20					
Quercus ilex		5		20					
Pine Evergreen Zone 2	60								
Larix decidua		10		5					
Picea abies		10		5					
Picea sitchensis		10		5					
Pinus nigra		25		15					
Pinus nigra		5		5					
Pinus sylvestris		30		20					
Pinus sylvestris		5		5					
Quercus ilex		5		5					
Pine Evergreen Zone 3	130								
Larix decidua		10		5					
Picea abies		10		10					
Picea sitchensis		10		10					
Pinus nigra		25		10					
Pinus nigra		5		7					
Pinus sylvestris		30		10					
Pinus sylvestris		5		7					
Quercus ilex		5		5					40 lin m
Prunus laurocerasus Hedge									
Evergreen Zone 4	230								
Pinus sylvestris								3	
Pinus sylvestris								2	
Hedging									230 lin m
Crataegus monogyna									
Specimens									
Pinus sylvestris				3					
Pinus nigra				3					
Acer saccharinum				2					
Betula pendula				5					
Carpinus betulus				5					
Castanea sativa				1					
Quercus rubra				5					
Sorbus Joseph Rock				5					
	1785		390	29	440	65	64	5	

Woodland Schedule



Examples of Citywest Woodland



Proposed planting reflecting the adjacent site KAL with Birch and Pine Planting



Car Park and Entrance Paving Tobermore Sienna sandstone paviours or similar approved

Specimens	Spec	Area sq m	Specimens	Beds
Castania sativa	6-7m multi 5-6m		1	1
Cedrus atlantica Glauca	40 50cm 6m		1	4
Pinus nigra	6-7m 40-50cm girth		1	1
Quercus rubra	30-35 ft hd		2	8
Entrance Bed 1		25		
Belula utilis Jacquemontii	18-20			2
Pinus sylvestris	2m			3
Rubus tricolor	2 Ltr			30
Entrance Bed 2		50		
Belula utilis Jacquemontii	18-20			2
Pinus nigra	2m 0s			2
Vinca minor	2 Ltr			10
Entrance Bed 3		12		
Belula utilis Jacquemontii	18-20			2
Vinca minor	2 Ltr			50
Entrance Bed 4		73		
Belula utilis Jacquemontii	18-20			3
Pinus nigra	2m 0s			1
Vinca minor	2 Ltr			160
Entrance Bed 5		32		
Belula utilis Jacquemontii	18-20			2
Vinca minor	2 Ltr			30
Entrance Bed 6		19		
Belula utilis Jacquemontii	18-20			1
Rubus tricolor	2 Ltr			20
Entrance Bed 7		41		
Pinus sylvestris	2m			2
Rubus tricolor	2 Ltr			20
Entrance Bed 8		110		
Pinus sylvestris	2m			3
Rubus tricolor	2 Ltr			240
Entrance Bed 9		18		
Belula utilis Jacquemontii	18-20			1
Vinca minor	2 Ltr			80
Entrance Bed 10		35		
Pinus sylvestris	2m			2
Vinca minor	2 Ltr			180
Entrance Bed 11		14		
Vinca minor	2 Ltr			60
Entrance Bed 12		5		
Vinca minor	2 Ltr			30
Hedging				
Prunus laurocerasus	90-120			80
Crataegus Hedging				
Crateaugus monogyna	frontage 1.5-2m	57 lin m		

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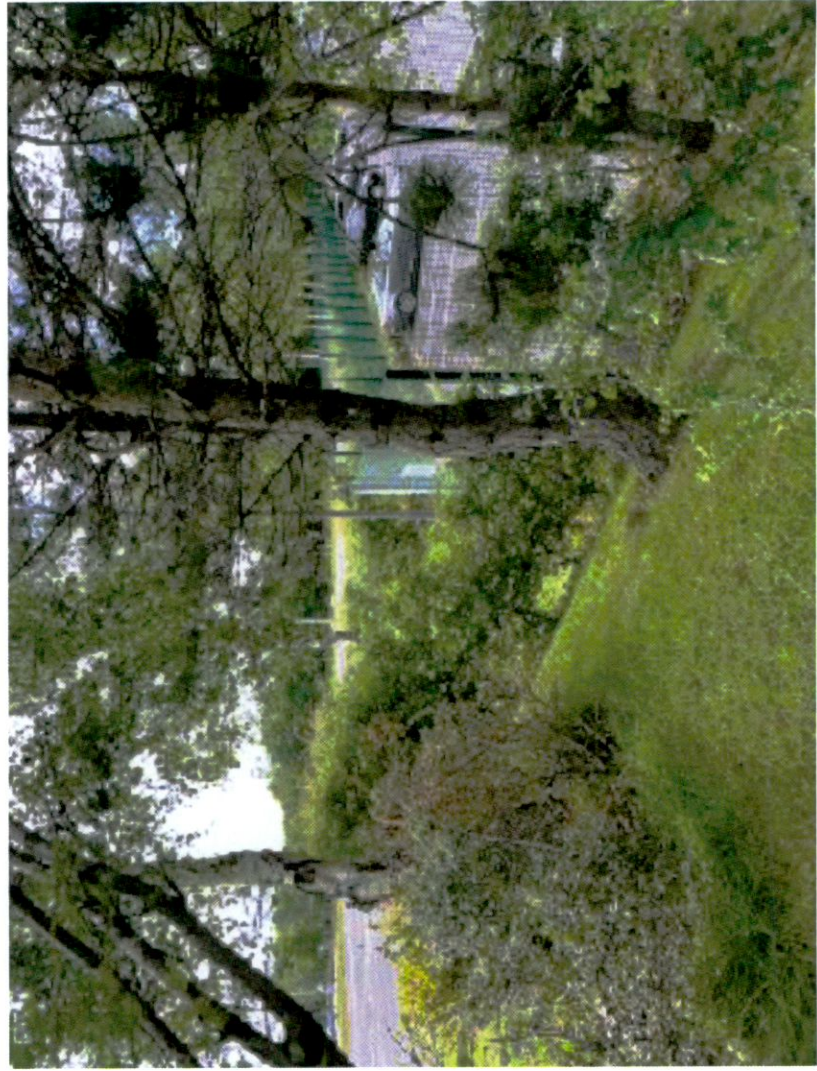
K2 DATA CENTRE DUBLIN		ENTRANCE PARKING AND PATHS	
DATE	DRAWN BY	CHECKED	REVISION
18/07/2022	PK	MH	0
PROJECT NO.	DATE	SCALE	PROJECT NAME
A10150	2022/02/05		

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Existing Hawthorn Hedgerow to Keppel, Citywest acting as a natural security type Stock Fence

Existing Hawthorn Hedgerow to Keppel, Citywest following the contours instead of the fence line in keeping with the landscape type at Citywest.



PROPOSED HAWTHORN HEDGE

1. A *Crataegus monogyna* (Hawthorn) hedge is proposed along the fence line at the entrance from Kingswood Road, and similar to that planted at Keppel, Citywest Avenue.
2. The section of mature hedging removed from the eastern boundary by an adjacent development will, be planted with a replacement Hawthorn hedge.
3. Hedge on the eastern boundary that was removed by others to be planted with *Crataegus*

Existing Hawthorn Hedgerow to Keppel, Citywest providing a wildlife corridor for shelter, food and nesting sites



Irish Wildflower Conservation Grade Seed Mixture: Range: Wild Flower Mixtures (Code WF) or Similar

Product Name: Bird Attracting Wildflowers

Product Code: WF03

Description:

This mixture is mid to tall height and requires 1 cut per year often in spring and NOT at the end of summer

WF03 is a designed seed mixtures for those who seek to Birds. Birds will visit in summer and winter (if left uncut) to eat the seeds

This seed mixture will grow in moderately wet or dry soils, sunny or slightly shaded.

WF03 can be planted as a meadow, ideally it is best planted in a sheltered open or very lightly shaded situation in sun where the birds are given some nearby shrubby cover. As well as being colourful, this mixture is especially designed and blended to provide feed from wild seed head in autumn and winter to attract over 20 of the more common bird as well as provide seed feed for winter migrant birds, such as Greenfinch, Linnet, Chaffinch, Bullfinch and Goldfinch.

In summer this mixture will be alive with edible insects for migrant summer visitors such as Warblers. Some of these insects will over winter in the seed heads, further providing protein for winter birds. As WF03 attracts insects, which in turn feed birds such as Blue Tits, Thrushes and Wrens, this mixture is also considered beneficial planting for biological control of pests.

Mixture Specifications:

Part or half of the area sown with WF03 should not be cut at the end of summer, leave the seed heads on so that the birds, especially finches can search the heads for seeds and provide hours of fascinating entertainment. But you then cut in Spring. To attract butterflies the following year, Cut the more showy half at the end of summer as per any normal meadow and leave the taller seed heads for the birds all winter. Cut to 10cm or 4 inches no lower.

Origin: Native Irish Origin, Wildflower Seed Mixture.

pH range: Suits all soils.

Aspect: Sunny to light or semi shade, but not too shaded

Life Cycle: Contains Annuals, Biennials and Perennials.

Height Range: 120cm - 180cm

Flowering Period: May to September.

Fertility Range: Will grow on any soil, the less fertile the soil, the less cutting will be required.

Total number of seeds per gram: 980

Species List:

Birdsfoot Trefoil, Black Meddick, Burdock, Common Vetch, Corn Marigold, Corn Poppy, Corncockle, Cornflower, Cowslip, Devil's Bit Scabious, Field Scabious, Fleabane, Foxglove, Greater Trefoil, Hedge Garlic Mustard, Hemp Agrimony, Kidney Vetch, Lady's Bedstraw, Lesser Knapweed, Marjoram, Scented Mayweed, Meadow Vetchling, Meadowsweet, Ox-eye Daisy, Purple Loosestrife, Ragged Robin, Red Clover, Ribwort Plantain, Shepherds Purse, Sorrel, St Johnswort, Teasel, Wild Angelica, Wild Carrot, Yarrow, Dames Violet, Wood Sage

