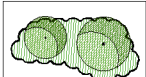
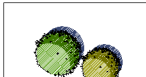


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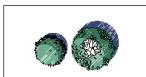


**Existing Trees/Group of Trees retained and managed (326 No.)**  
(See arborist's report)




**Proposed Street Trees (94 No.)**  
Planted in same species group or lines on individual streets

*Acer campestre* 'Streetwise' 16-18 cm gth, 4-6m ht  
*Acer campestre* 'Elsrijk' 16-18cm gth, 4-6m ht  
*Betula pubescens* 14-16cm, 3-4m ht  
*Corylus colurna* 14-16cm gth, 5-6m ht  
*Pyrus* 'Chanticleer'\* 14-16cm, 3-4m ht  
*Quercus robur* 'Fastigiata' 16-18cm gth, 4-6m ht  
*Tilia cordata* 'Greenspire'\* 16-18cm, 5-6m ht  
*Ulmus* 'Lobel' 16-18cm, 5-6m ht



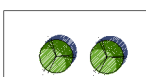
**Proposed Parkland, Open Spaces and Feature Trees (147 No.)**  
To include species from the above list and selected species from the following:

<i>Aesculus hippocastanum</i> * 14-16cm, 4.25-6m ht <i>Alnus glutinosa</i> 14-16cm, 3-4m ht <i>Castanea sativa</i> * 14-16cm, 4.25-6m ht <i>Fagus sylvatica</i> 14-16cm, 4.25-6m ht <i>Pinus sylvestris</i> 120-150cm, RB <i>Populus tremula</i> 14-16cm, 4.25-6m ht <i>Quercus petraea</i> 14-16cm, 4.25-6m ht	<b>Specimens:</b> <i>Carpinus betulus</i> 20-25cm, 6m ht <i>Cedrus atlantica</i> 'Glaucua' 20-25cm, 6m ht <i>Pinus radiata</i> 1.9m-2m ht, RB <i>Quercus pallustis</i> 20-25cm, 6m ht
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**Small to Medium Trees (822 No.)**

To open spaces and public realm	To private gardens
<i>Betula pubescens</i> 14-16cm, 3-4m ht <i>Prunus padus</i> * 14-16cm, 3-4m ht <i>Pyrus</i> 'Chanticleer'* 14-16cm, 3-4m ht <i>Sorbus aria</i> 'Lutescens'* 14-16cm, 3-4m ht <i>Sorbus aucuparia</i> * 12-14cm, 2.5-3.5m ht	<i>Arbutus unedo</i> * 12-14cm, 2.5-3.5m ht <i>Betula pendula</i> 14-16cm, 3-4m ht <i>Malus floribunda</i> 12-14cm, 2.5-3.5m ht <i>Malus sylvestris</i> * 14-16cm, 3-4m ht <i>Prunus</i> 'Kanzan' 12-14cm, 2.5-3.5m ht <i>Prunus padus</i> 'Fastigiata'* 2-14cm, 2.5-3.5m ht <i>Pyrus</i> 'Chanticleer'* 14-16cm, 3-4m ht <i>Sorbus aria</i> 'Lutescens' 14-16cm, 3-4m ht <i>Sorbus aucuparia</i> * 12-14cm, 2.5-3.5m ht
Tall shrubs	
<i>Acer palmatum</i> 150-175cm ht <i>Amelanchier Canadensis</i> * 150-175cm ht <i>Lavatera oibia</i> * 50-175cm ht <i>Ptelea trifoliata</i> * 50-175cm ht <i>Syringa vulgaris</i> * 150-175cm ht	




**Orchard Trees (26 No.)**

*Malus* 'Irish Peach'\* (33%)  
*Prunus domestica* 'Victoria'\* (33%)  
*Pyrus communis* 'Conference'\* (33%)



**Birch Thicket (136 No.)**  
Whips planted at 3/m2

*Betula pubescens*



**Proposed Mixed Native Woodland Planting (3335 sqm.)**

Trees - fthd trees 2.1 - 2.5m ht. - min 3m. ctrs	Shrubs - 60-90cm ht., in random groups of 5-15 no at 2-4m/sqm
<i>Alnus glutinosa</i> - 20% <i>Betula pendula</i> - 20% <i>Fraxinus excelsior</i> (if permitted) - 20% <i>Quercus petraea</i> - 20% <i>Sorbus aria</i> * - 10%	<i>Cornus sanguinea</i> * - 5% <i>Corylus avellana</i> - 15% <i>Crataegus monogyna</i> * - 15% <i>Ilex aquifolium</i> - 10% <i>Ligustrum vulgare</i> * - 10% <i>Prunus avium</i> * - 10% <i>Prunus spinosa</i> * 10% <i>Rosa canina</i> * - 10% <i>Salix cinerea</i> - 10% <i>Viburnum opulus</i> * - 5%

Underplanted with selected wildflower mix: *Hyacinthoides non-scripta*, *Arctium minus*, *Viola riviniana*, *Primula vulgaris*, *Succisa pratensis*, *Digitalis purpurea*, *Alliaria petiolata*, *Centaurea nigra*, *Filipendula ulmaria*, *Allium ursinum*, *Silene dioica*, *Plantago lanceolata*, *Rumex acetosa*, *Torilis japonica*, *Angelica sylvestris*, *Geum urbanum*, *Eupatorium cannabinum*, *Plantago media*, *Viola odorata*, *Teucrium scorodonia*.

\* Species selected for their pollinating qualities.

**PLANTING NOTES**

**GENERAL CLEARANCE BEFORE PLANTING AND SPREADING TOPSOIL**

- All rubble, stone over 150 mm, general rubbish and builders' debris to be cleared from the proposed planting areas to the depth of the cultivated medium depending if trees, shrubs or grass (see spec for depths) and removed from site to an approved tip prior to any cultivation works.
- The planting area shall be treated with an approved herbicide 2 weeks before spreading topsoil.

**SITE PREPARATION**

- Following herbicide treatment (duration depending on herbicide type) the entire area shall be leveled to a medium grade prior to topsoil being spread.
- Topsoil to be cultivated so free of grass, pernicious weeds and weed seed, stones larger than 50 mm and other debris. Similarly the top 50 mm of subsoil for grass areas should be free of grass, pernicious weeds and weed seed, stones larger than 30 mm and other debris.
- Topsoil to be spread in 150 mm layers and gently firmed. Subsoil to be spread in 300 mm layers and gently firmed.

**PLANT MATERIAL**

- All plant material shall be pest and disease free.
- Topsoil shall be supplied in accordance with BS3882.
- All plants to be planted at the same depth as previously grown.
- Sufficient soil must be removed to allow all roots to fully spread. Care must be taken with root systems - with dry, damaged roots being carefully pruned prior to planting.

**PLANTING**

**General**

- Times of year for planting:
- Deciduous trees and shrubs : November to March.
  - Conifers and evergreens : November to March.
  - Container grown plants : At any time if ground and weather conditions are favorable.
    - Watering and weed control : Provide as necessary.

Refer to Plant Schedule for species, sizes and planting densities.

**Whips**

- All whips to be pit planted as per detail.
- Soil ameliorants can be premixed with the soil applied or mixed in during planting.
- Soil ameliorants to consist of an approved compost at 10L per m2; and 50g/m2 of 10.10.10 NPK slow release fertilizer.

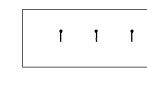
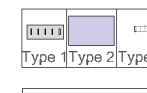
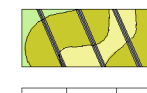
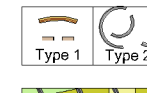
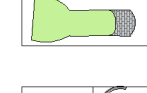
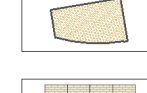
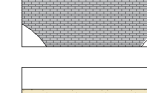
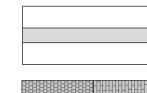
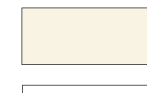
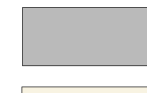
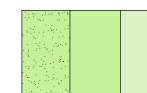
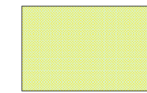
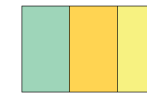
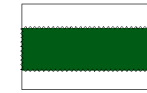
**Trees**

- Soil ameliorants to consist of an approved compost, at 20L for each feathered tree and 12-14cm gth tree, 35L for each 14-18cm gth tree and 50L for each 20-25 cm gth tree and 150g/tree of 10.10.10 NPK slow release fertilizer.
- For further details, see drawing no. tree planting details.

**Hedges**

- Soil ameliorants can be premixed with the soil applied or mixed in during planting, but must be through full width of trench.
- Soil ameliorants to consist of an approved compost at 10L per m2; and 50g/m2 of 10.10.10 NPK slow release fertilizer.

\*\* 1 TREE WILL BE RETAINED WITHIN THE HOUSING SITE (AREA NOT TO BE TAKEN IN CHARGE) THIS SHOULD BE MANAGED UNTIL MATURITY, THINNING AND PRUNING WHERE REQUIRE AND SUPPLEMENTING WITH PINUS SYLVESTRIS ONCE THE TREE HAS REACHED THE END OF ITS LIFE/ HEALTH



Shrub planting (9894m²) Indicative species list	
Low height ornamental shrubs/plants - max. ht. 40-150cm, 2L min. pot size and planted at 5/m2	Medium height ornamental shrub / plants - max ht. 1m, 45-60cm, 3L pot at 3/m2 unless specified
<i>Ajuga reptans</i> va * <i>Carex</i> sp. <i>Centaurea montana</i> <i>Erica</i> spp.* <i>Geranium</i> m. 'Czakor'* <i>Hedera helix</i> 'Hibernica' <i>Helleborus niger</i> * <i>Iberis sempervirens</i> * <i>Pachysandra terminalis</i> <i>Rosa</i> 'Tananaistrua' <i>Rosa</i> 'Noaschnee'* <i>Santolina</i> cham. 'Nana'* <i>Teucrium chamaedrys</i> *	<i>Calamagrostis x acutiflora</i> 'Karl Foerster', <i>Choisya ternata</i> <i>Cornus sanguinea</i> <i>Corylus avellana</i> <i>Cytissus</i> 'All Gold' <i>Hypericum</i> 'Hidcote' <i>Lavandula angustifolia</i> 'Blue Cushion' <i>Lonicera pileata</i> <i>Miscanthus</i> spp. <i>Philadelphus coronarius</i> * <i>Rudbeckia</i> 'Goldstrum'

**Hedge planting (513 Lm.)**  
Planted in single species in different lengths across the site. 60-90Ccm at 3/m

*Fagus sylvatica*, *Prunus lusitanica*\*, *Taxus baccata*, *Lonicera nitida*, *Griselinia littoralis*

**Ornamental Planting and Grasses (1775m²)**  
Low height ornamental shrubs/plants. Max height 40 - 150mm. 2 L min. pot size and planted at 5/m²

<i>Achillea</i> sp. (deep reds/whites)* <i>Aquilegia</i> sp. (purples, whites)* <i>Anemone x hybrid</i> *, 3L pot planted at 4/m² <i>Carex</i> sp. (greens, golds, whites) <i>Calamagrostis x acutiflora</i> 'Karl Foerster' <i>Lavandula angustifolia</i> 'Blue Cushion' <i>Echinacea purpurea</i> * <i>Knautia macedonica</i> *	<i>Agastache</i> 'Black Adder' <i>Sedum</i> 'Brilliant'* <i>Verbena bonariensis</i> * <i>Stipa tenuissima</i> <i>Molinia caerulea</i> <i>Pennisetum alopecuroides</i>
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All to be planted with *Allium* 'Purple Sensation' bulbs in key areas at 5/m²

**Bulb planting (650m²)**  
Bulbs to be planted in small groups of similar species with between 15 and 35 bulbs in each group. Bulbs planted at 16/m²

<i>Allium hollandicum</i> 'Purple Sensation' 20% <i>Hyacinthoides non-scripta</i> * 20% <i>Muscari latifolium</i> 20%	<i>Narcissus pseudonarcissus</i> * 20% <i>Tulipa</i> 'Paul Scherer' 20%
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**Long Grass (5825m²) /Amenity/Private Grass**

	<b>Landform</b>
	<b>Swale</b>

**Road Surface**

- Black tarmacadam
- Rolled top tarmac

**Shared Surface**

- Cloured tarmac

**Footpath**

- Brushed concrete

**PCC Pavers**

1. Pedestrian
2. Vehicular

**Raised Table**

- To Eng. specification

**Rolled Dust/Self - Binding Gravel Path**

- Ballylusk 10mm or similar

**Tactile Paving**

- To Eng. specification

**Parking Bays and Private Treshold Areas**

- PCC pavers 120x160x80mm
- Natural, silver or charcoal finish to complement street facades and reinforce character areas.
- Alternate colours for details and highlights.
- N.B Permeable paving to private areas only

**PCC Setts**

- Setts 100x200x80mm
- Natural finish to complement street facades and reinforce character areas.

**Seating**

Type 1 - Various lengths timber benches  
 Type 2 - Concrete wall/seat

**Boardwalk play features**

- Recycled black plastic boards

**1. Bike stands**  
**2. Bike shed**  
**3. Bins**

**Light columns**

- To Eng. Specification

**Play Surface/Safety Surface**

- Coloured rubber wetpour play surface to ISEN 116/177 and woodchip

**Play Surface**

- sand

**Free Standing Balance Beams**

**Informal Natural Play**

- Logs, sensory planting, boulders, play steps

**Formal Play Equipment**

- Supplier: KOMPAN or similar

**Fitness Trail Equipment**

- Supplier: KOMPAN or similar

**Retaining Walls / Elements**

- coursed gabion retaining walls

**Stations**

Type 1. Indicative substation location  
 - To eng. specification  
 Type 2. Pumping Station  
 - Location indicative  
 - To eng. specification

**Type 1. Attenuation Area**  
**Type 2. Railing**

- 1.2m high vertical bar railing

**NOTE:**  
 - DRAWING ISSUED FOR PLANNING PURPOSE ONLY.  
 LANDSCAPE IS SUBJECT TO APPROVAL OF THE PLANNING AUTHORITY

A	19/11/2019	PLANNING ISSUE
REV	DATE	AMENDMENT

**CUNNANE STRATTON REYNOLDS**  
**LAND PLANNING & DESIGN**

DUBLIN OFFICE  
 3 MOLESWORTH PLACE DUBLIN 2  
 TEL 01 661 0419 FAX 01 661 0431  
 EMAIL info@csrlandplan.ie

PROJECT: BELMOUNT RESIDENTIAL DEVELOPMENT ACADEMY STREET, NAVAN, CO MEATH	DATE: Nov 2019
DRAWING: HARD & SOFT LANDSCAPE MATERIALS SPECIFICATION	SCALE: NTS@A3
	DRAWN: CHECKED: TC/DC EO
	DRAWING NO: 18221-2-103