

Landscape Report



On behalf of Fingal County Council

03.04.2024

Revision	Date	Description	Approved
-	18.01.2024	First Issue	DM
	14.03.2024	Second Issue	DM
	03.04.2024	Final Issue	DM

This document is to be read in conjunction with the following accompanying drawings:

23FG05_DR-0200 Landscape Plan

23FG05_DR-0201 Landscape Plan - Communal Open space

23FG05_DR-0202 Landscape Plan - Public Open Space

23FG05_DR-0202 Landscape Plan and Drainage

23FG05_DR-0210 Boundary treatments plan

23FG05_DR-0220 Boundary treatments sections

23FG05_DR-0230 Typical Gardens

23FG05_DR-0240 Landscape Sections, Sheet 01

23FG05_DR-0241 Landscape Sections, Sheet 02

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Existing Site Context and Condition

The subject site is located on the eastern edge of Doanate on the New Road which links the town centre and the recently completed bypass road the R126. New Road continues across the R126 eastwards to the coast and Donabate Beach. The site is 4.26 hectare in area and consists of disused agricultural land characterised by rough grassland, Bramble scrub and some naturally regenerating trees; principally Hawthorn, Willow and Ash. Historically the site was enclosed by field boundary hedgerows.

Presently the condition of these hedgerows is very fragmented and of poor arboricultural quality. The boundary hedgerow to New Road shows evidence of historic trimming and is dominated by Bramble. Along the eastern boundary only small sections of hedgerow vegetation remain; there is an open drainage channel associated with this hedgerow. The northern boundary hedgerow to Ballymastone has recently been cleared of the Bramble and Herb layer and as a result only a small number of isolated Hawthorn trees remain. There is some scrub along the boundary to the dwellings in St. Patrick's Park.

The site has only approx. 1.5m level change from the highest point in the southwest corner to the lowest points in the north east.

To the east the site adjoins Lanestown View a recently completed housing development of own door hosuing, duplex apartments and apartments.



Fig. 1.0 - Site outlined in red on Google Earth aerial photography, June 2002. Note Lanestown View development had not commenced.

INTRODUCTION

Existing Site Condition



View of south east corner of site from New Road.



Eastern boundary of site adjoining Lanewtown View.



View looking west along New Road, site on RHS.



From centre of site looking west to rear of dwellings in St. Patrick's Park.



Recently completed Lanestown View development.



From centre of site looking towards the north west corner of the site.

Existing Site Condition



View from inside the south east corner of site looking north towards Ballymastone.



North eastern boundary of site. Residual hedgerow vegetation visible on neighbouring lands



View from east end of site looking into Lanewtown View.



View along northern site boundary looking east. Temproary construction site fencing for Ballymastone development visible on LHS.

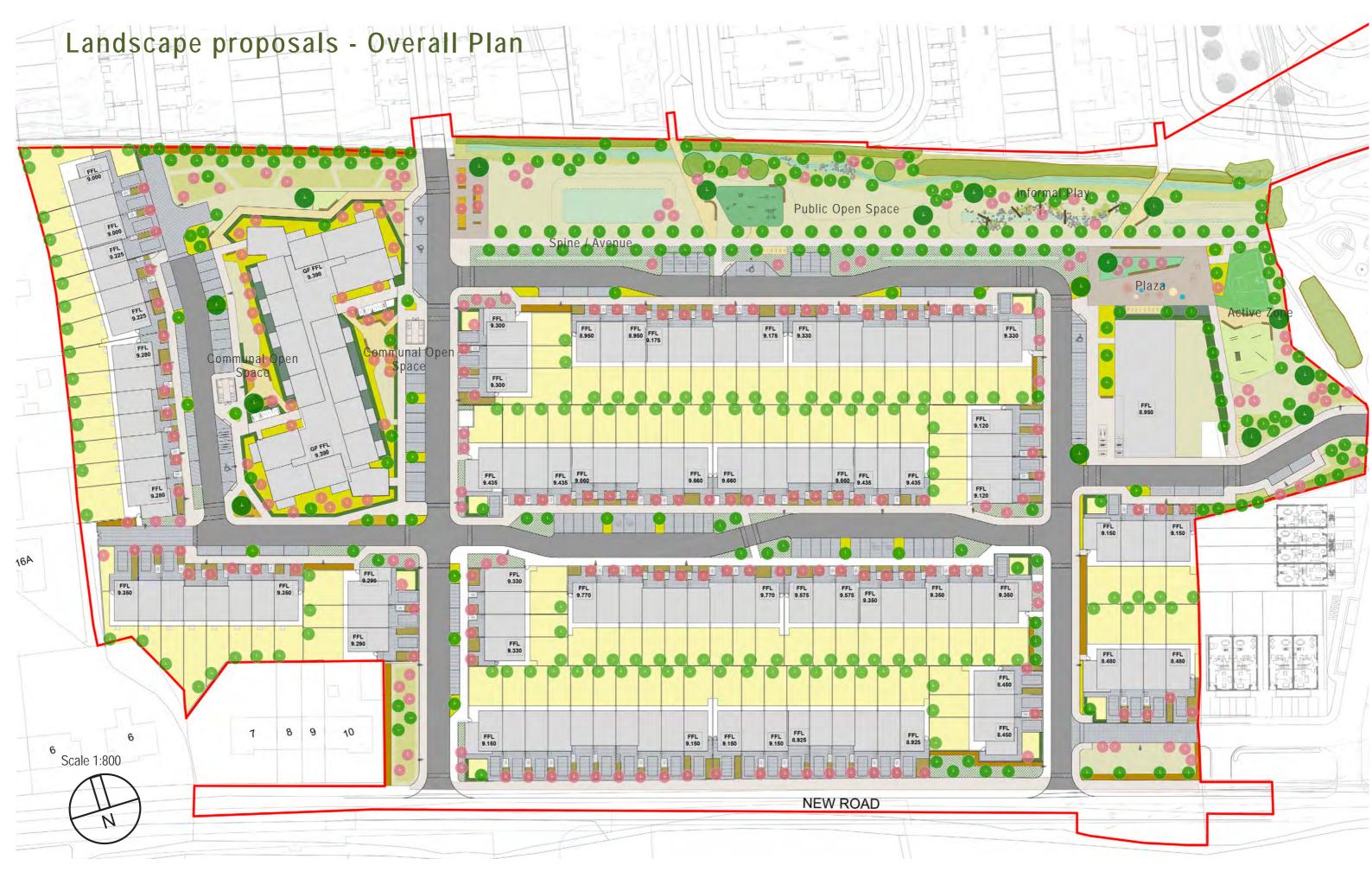


View from north east corner of site looking into Lanewtown View open space area.



View along northern site boundary looking west. Temproary construction site fencing for Ballymastone development visible on RHS.





LANDSCAPE STRATEGY

Public Open space - Landscape Plan



20 metres

Public Open space - Landscape Proposals

The public open space to be provided is substantial and at 0.6 hectare approx. is at the the scale of a Small Park. This Park will also be directly connected with public open spaces on an existing devlepment to the east and on a development under construction to the north. The Park will likely function as a well used linking space for people to move from the neighbouring residential areas through the site towards Donabate Village and the Rail Station. The vision of the Park is one that provides ecosystems services in the form of habitat for flora and fauna and accommodates nature based features for attenuating and filtering stormwater, whilst also providing for a wide range of active recreation.

Public Open Space

Fingal Development Plan 2023-2029: Table 14.12 states that a minimum of 12 to 15% of the net site area should be Public Open Space. The proposal includes the following areas for SuDS and Public Open Space:

- TOTAL NET SITE AREA: 40700m²
- 5200m² to the north & east (excluding SuDS features)
- 910m² to the north of the apartment block
- 1150m² of SuDS features
- TOTAL POS: 5200 + 910 = 6110m² = 15% of net site area.

All units in this scheme are within 150m walking distance of a Public Open Space area in compliance with FDP 2023-2029 Objective DMSO56 – Proximity of New Residential Schemes to Parks.

Play Provision

Objective DMSO68 – Playground Facilities within Residential Development

Requirement of 4sqm per unit; 175 units = 700 sqm.

The Public Open Spaces includes recreation and play facilities for all age groups of children with an equipped play areas aimed at under 12's (145 sqm), nature play 'Dry riverbed' of 320sqm and a social space (220 sqm), basketball mini court (150 sqm) and callisthenic gym (150 sqm) for older teenage children. In addition a SuDS basin is set out as a dry river bed with boulders and logs for natural play. All play areas will have seating adjoining or adjacent to them for the benefit of supervising adults.

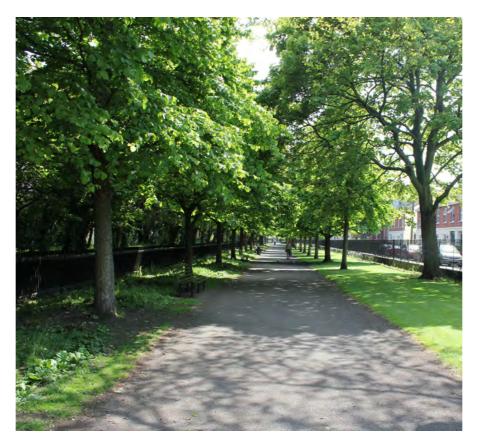


Mowed path in a meadow



Sensory Garden with Pollinator Friendly planting. Dry riverbed - boulders





Tree Lined Avenue



Dry riverbed - tree trunks

Park; Play and Social Spaces







Small outdoor library



Basektball Mini Court



Bicycle stands



Large picnic style bench for Social Space



Calisthenic fitness equipment.



Climbing structure



Seating and social space



Play Area

Communal Open space

An additional area of public open space is provided to the immediate north of the proposed apartment block. This space provides for enhanced pedestrian permeability within the scheme and access to the large Public Open Space. This space also allows for new hedgerow and tree planting and a wildflower meadow verge along the northern boundary of the site extending the reast-west biodiversity corridor from the larger open space. A small seating area and some incidental play elements are provided to encourage active use of the space.

In addition Communal Open Space for the use and benefit of the apartment residents is provided on the east and west sides of the apartment block. Each Communal Open Space is defined by low hedging from the public footpaths. Each space incorporates a seating area and suitably scaled tree planting and pollinator friendly groundcover planting for seasonal interest.

KEY

- 1. Seating Area
- 2. Privacy buffer with Pollinator Freindly groundcover planting.
- 3. Lawn.
- 4. Wildflower Meadow with mown paths.
- 5 Visitor bike parking.
- 6. New hedegrow planting and tree line.
- Porous / permeable paving.



Seating and social space



Pollinator friendly planting mix





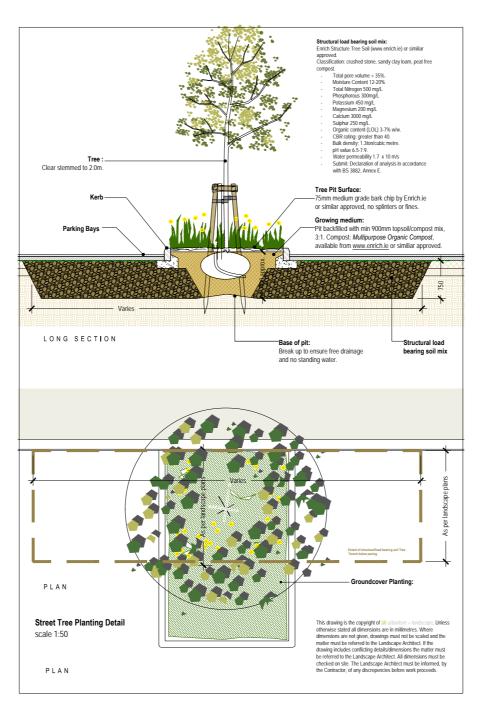
Not to scale

Fingal Tree Planting Policy

In developing landscape proposals for this scheme regard has been had to the Tree Policy and it objectives in the Fingal Development Plan 2023-2029: and The Forest of Fingal – A Tree Strategy for Fingal.

- Where feasible existing trees an hedgerow vegetation are to be retained (Objective DMSO125).
- A consultant Arborist has as surveyed the existing trees and provided detailed guidance on tree protection measures (Objective DMSO126).
- Tree species selection consists of Native and Pollinator Friendly species (Objective DMSO127).
- In locating new tree planting consideration has been given to avoiding excess shading of habitable rooms within buildings and private gardens (Objective DMSO129).
- Large canopy species are proposed within the Public Open Spaces (Objective DMSO130).
- Use of constructed tree pits in the form of load bearing soils to provide minimum rooting volumes for street trees (Objective DMSO131).
- Public Lighting has been located to avoid conflicts with proposed trees (Objective DMSO133).
- A broad palette of trees have been specified to prevent an over reliance on certain genera or species and to combat climate change (Objective DMSO136).

See section 4.0 of this report for details of proposed tree planting.



Street Tree detail from Section 5.0 of this Report.

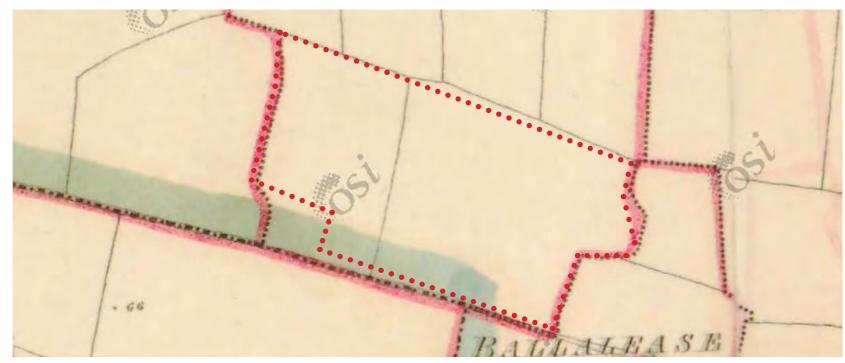
Townland Boundary

There are historic townland boundaries on the western and southern boundaries of the site and adjacent the eastern site boundary. In considering the scope for retention of the remnant hedgerow vegetation associated with the townland boundaries regard has been had to the condition of the existing vegetation and the objectives of good urban design and planning.

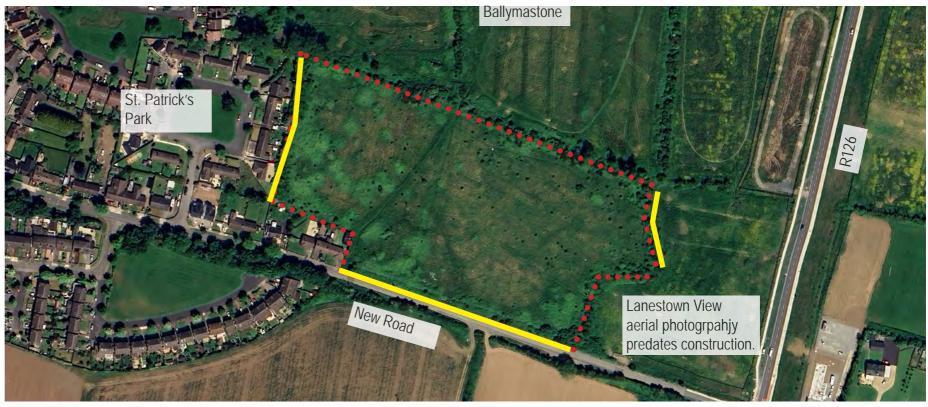
The existing hedgerow and trees on the site have been surveyed by Consultant Arborist; Charles Mc Corkell and the a survey report and drawings provided. The townland boundary along the southern edge of the site fronts onto New Road. This hedgerow is dominated by Bramble scrub and has limited thorn species or trees. It would not be feasible to retain this hedgerow whilst also providing for a new footpath and cycle track along New Road; in addition to fronting dwellings onto New Road to provide passive surveillance and a positive frontage to the public realm.

The townland boundary on the western edge of the site consists of isolated groups of regenerating Bramble, Elder and Sloe / Blackthorn. These vegetation groups sit either side of an open drain. This vegetation adjoins the rear boundaries of existing dwellings in St. Patricks Park. Some of the existing garden boundaries are poorly defined and are partly open. It would not be feasible to locate open space along this boundary. The construction of a new boundary wall along the rear of the St. Partick's Park dwellings will make retaining the remnant hedgerow vegetation unfeasible. Also a filter drain is required to supplant the open drain which will also necessitate vegetation removal. Post development the townland boundary will however be marked by the new boundary wall.

On the eastern boundary the limited remains of the townland boundary hedgerow are retained within the open space delivered as part of the Lanestown View development.



1st Editon OS map from c. 1837; Towland boundaries are identified on the OS map with wide red lines. Development site extentst indicated in dotted redline.



Remnant townland boundary marked with yellow lines on Google Earth aerial photography (2022).

LANDSCAPE STRATEGY





Hard Landscape Materials

Paving/Surfaces



Block Paving to the environs of apartment buildings.



Permeable block paving to parking spaces.



In-situ concrete to footpaths.



Resinbound gravel to the Communal Open Space

Furniture - reference images

Bespoke Furniture

Steel Furniture





Seating and social space



Steel Sheffield type cycle stands.











Trees

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

Ac

Acer campestre
Pyrus calleryana 'Chanticleer'
Sorbus aria 'Majestica' (N)
Tilia cordata 'Greenspire' Pc SaM TcG







Specimen trees, feature trees, park trees and general

Native trees: Pinus sylvestris Quercus robur Ps Qr

Non-native biodiversity friendly trees:

Acer rubrum 'October Glory'

Aesculus hippocastanum ArOG Ah Fagus sylvatica Fs



Acer campestre 'Elegant'



Sorbus aria 'Majestica'



Acer rubrum 'October Glory'



Aesculus hippocastanum



Pinus sylvestris



Quercus robur









Standard trees

Betula pendula Вр

Crataegus monogyna (N) Pinus sylvestris (N) Cm

Ps

Pa

Pр

Qr

Prunus avium
Prunus padus (N)
Quercus robur (N)
Sorbus aucuparia (N) Sa







Pinus sylvestris



Prunus padus



Sorbus aucuparia









ΑI Amelanchier lamarckii Cercidiphyllum japonicum
Corylus avellana (N)
Crataegus monogyna (N)
Prunus avium (N)
Sorbus aucuparia (N) Cj Ca Cm Pa Sa



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











Viburnum opulus









5 Litre pot, cg., 6 Plants Per Square Metre Ilex aquifolium Ilex crenata







llex crenata









Pollinator Planting

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





Allium 'Christophii'



Rubeckia fulgida 'Goldstrum'

Front garden mix

Species selection as in the Full Sun mix with additional 20% of shrubs

Hydrangea arborescens 'Annabelle' Lavandula angustifolia Mahonia sp. Rosmarinus offinalis







Shade PS

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

Aenmone x hybrida

Bergenia cordilfolia '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'

Pulmonria 'Blue Ensign'

Rodgersia 'Dark Pokers'

Vinca minor

Blechnum spicant

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

Dryopteris affinis Polstichum setiferum

Bulb Underplanting

Anemone nemerosa (N)

Crocus

Galanthus nivalis

Hyacinthoides non-scriptus (N)





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
Bugle
Ajuga reptans
Meadow Buttercup
Wild Chamomile
Red Clover
Cowslip

Galium verum
Ajuga reptans
Ranunculus acris
Chamaemelum nobile
Trifolium pratense
Primula veris

Oxeye Daisy
Smooth Hawksbit
Ribwort Plantain
Quaking Grass
Selfheal
Sorrel

Leucanthmeum vulgare
Leontodon saxatilis
Plantago lanceolata
Prunella vulgaris
Rumex acetosa

Yarrow Achilliea millefolium Kidney Vetch Anthyllis vulneraria

Native Grasses:

Birsdfoot Trefoil

Creeping Bent
Crested Dogstail
Meadow Fescue
Sheeps Fescue
Slender Red Fescue
Timothy
Smooth Stalked Meadowgrass

Agrostis stolonifera
Cynosurus cristatus
Festuca pratensis
Festuca ovina
Festuca rubra
Phleum pratense
Poa pratensis

Lotus corniculatus

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





















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:

Sorrel

Birdsfoot Trefoil Lotus corniculatus Black Meddick Medicago lupulina Devil's Bit Scabious Succisa pratensis Corn Marigold Glebionis segetum Corn Poppy Papaver rhoeas Corncockle Agrostemma githago Cornflower Centaurea cyanus Cowslip Primula veris Eyebright Euphrasia Fleabane Erigeron

Kidney Vetch Anthyllis vulneraria Lady's Bedstraw Galium verum Lesser Knapweed Centaurea nigra Marjoram Origanum majorana Scented Mayweed Matricaria chamomilla Ox-eye Daisy Leucanthemum vulgare Ribwort Plantain Plantago lanceolata **Red Campion** Silene dioica Red Clover Trifolium pratense Red Bartsia Odontites vernus Rough Hawksbit Leontodon hispidus Selfheal Prunella vulgaris

St Johnswort Hypericum perforatum White Campion Silene latifolia Wild Carrot Daucus carota White Clover Trifolium repens Achillea millefolium Yarrow Yellow Rattle Rhinanthus minor

Rumex acetosa



Devil's-bit Scabious







Yellow Rattle







Smooth Hawksbit





Cowslip

Native Grasses:

Creeping Bent Meadow Fescue Red Fescue Timothy

Agrostis stolonifera Festuca pratensis Festuca rubra Phleum pratense



LANDSCAPE STRATEGY



WW

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 Allium ursinum
Wood Anemone Anemone nemerosa
Snowdrop Galanthus nivalis

Bluebell Hyacinthoides non scriptus

Open aspect:

Crocus

Allium 'Gladiator'

Allium 'Purple Sensation' Allium 'Mount Everest'

Crocus c.vars.; white, lilac and purple

flowering varieties.

Autumn Flowering Crocus

Fritillary

Grape hyacinth

Dwarf daffodils

Crocus sativus

Fritillaria meleagris

Muscari aremeniacum

Narcissus 'Tete a tete'

Native Grasses:

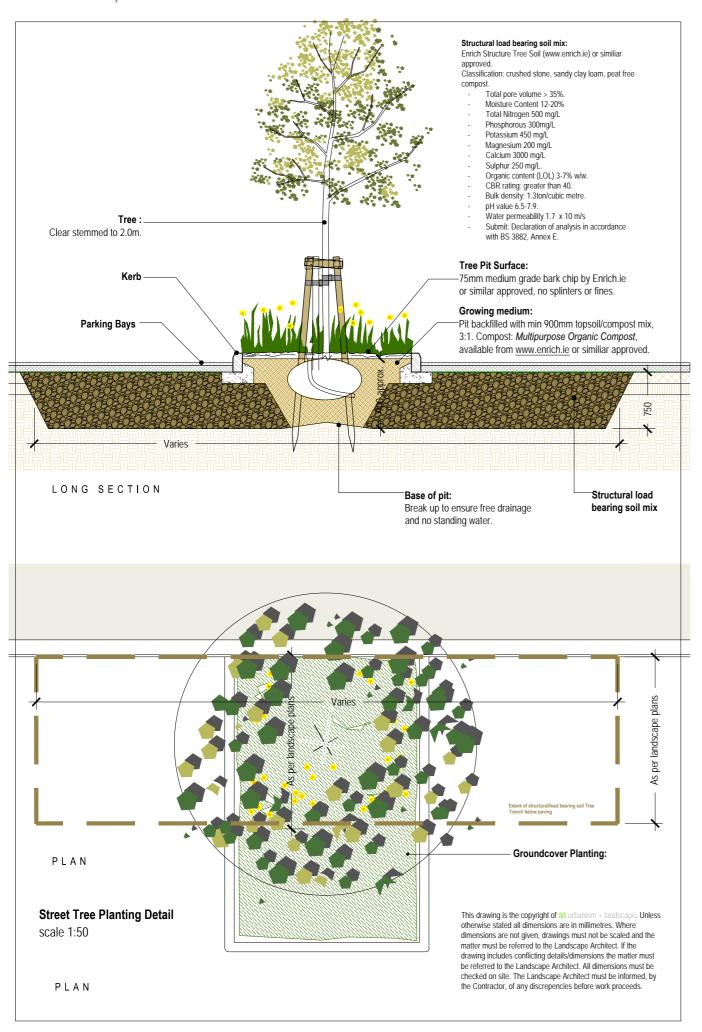
Creeping Bent
Crested Dogstail
Meadow Fescue
Sheeps Fescue
Slender Red Fescue
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Smooth Stalked Meadowgrass

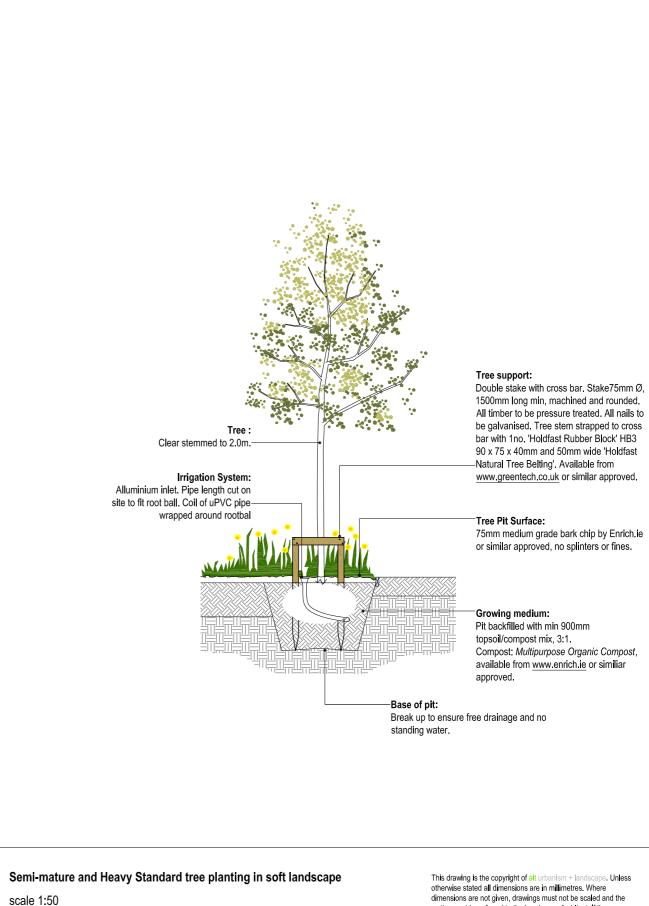
Agrostis stolonifera
Cynosurus cristatus
Festuca pratensis
Festuca ovina
Festuca rubra
Phleum pratense
Poa pratensis





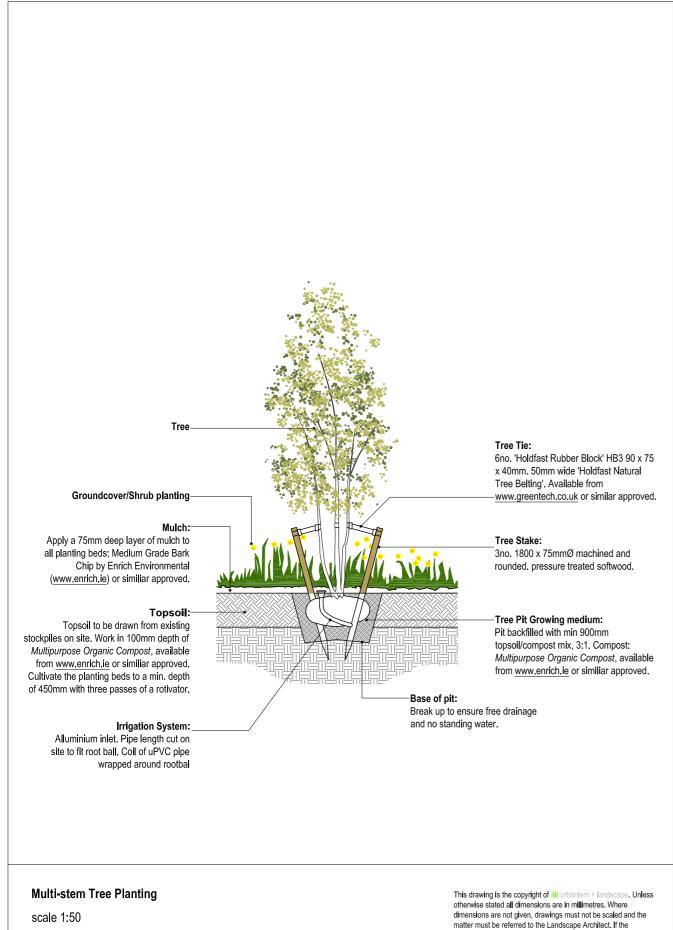




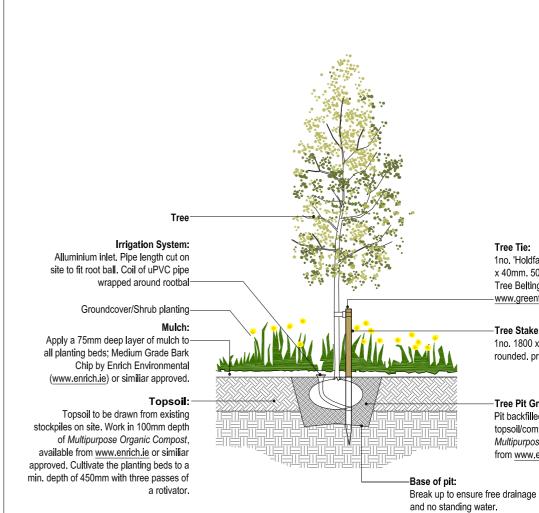


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SOFT LANDSCAPE DETAILS



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Tree Tie:

1no, 'Holdfast Rubber Block' HB3 90 x 75 x 40mm, 50mm wide 'Holdfast Natural Tree Belting', Available from -www.greentech.co.uk or similar approved.

Tree Stake:

1no. 1800 x 75mmØ machined and rounded, pressure treated softwood.

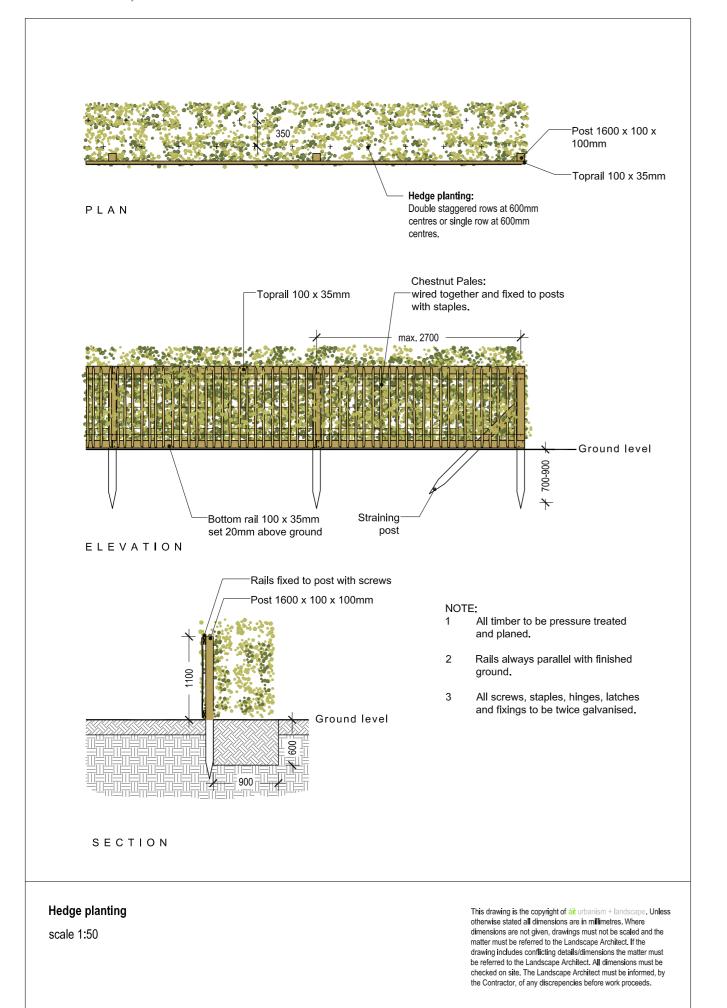
Tree Pit Growing medium:

Pit backfilled with min 900mm topsoil/compost mix, 3:1. Compost: Multipurpose Organic Compost, available from www.enrich.ie or similiar approved.

Standard and Feathered Tree Planting in soft landscape

scale 1:50

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Reinforced Grass - Access Road / Car Parking

Edge Restraint_

Reinforced Grass

compacted hardcore.

Brown top bent.

coarse sand in ratio of 60:40

50 x 150 treated timber edge retraint.

panels as per suppliers specification.

RE BAR to be 20mm Ø, 500mm lenght.

Expansion joint fixed to timber edge abutting 'ECOBLOCK'

GRASS PAVING by Geocoastal or similar approved grass paving system laid over 30mm grit over 250mm deep.

Grass seed: Grade 2, Mixture: 80% Fescue species, 20%

cells to be backfilled with rootzone mix of topsoil and

Timber edge fixed to outside with RE bar driven into sub-base. RE bar fixed to timber with metal strapping

scale 1:25

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Groundcover Planting

Apply a 75mm deep layer of mulch to all planting beds; Medium Grade Bark Chip by Enrich Environmental

Topsoil to be drawn from existing stockpiles on site. Work in 100mm depth of Multipurpose Organic Compost, available from www.enrich.ie or similiar approved. Cultivate the planting beds to a min. depth

Rip subsoil to a depth of min. 750mm from finished

Area to be grass seeded. Grade 2, Mixture: 80% Fescue species, 20% Brown top bent.

Topsoil to be drawn from existing stockpiles on site. Cultivate grass seeding areas to a min. depth of 300mm with three passes of a rotivator.

Rip subsoil to a depth of min. 600mm from finished surface. Min. depth of subsoil 450mm.

Gravel trim:

Soft landscape

Topsoil Subsoil

min, 300mm depth layer of 10-20mm washed and graded pebble. Timber edging: see adjacent detail-

Gravel trim building facades

Lawn

of 450mm with three passes of a rotivator.

surface. Min. depth of subsoil 450mm.

(www.enrich.ie) or similiar approved.

Mulch:

Topsoil:

Subsoil:

Grass Seeding:

Topsoil:

Subsoil:

NOTE:

- All timber to be pressure treated Larch, - Double stakes at change of direction and corners.

Edging:

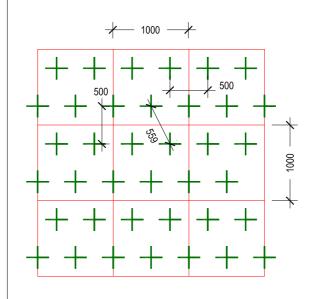
- All nails to be twice galvanised.

150 X 40mm pressure treated -

Larch timber edge twice nailed to 50 X 50 X 750mm stakes

driven at 1200 centres.

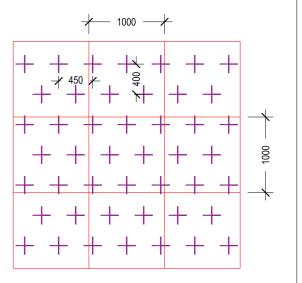
SOFT LANDSCAPE DETAILS



Clipped shrubs:

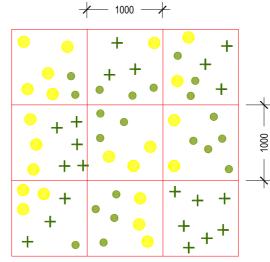
Density of plants typically 4 per sqm, all 2ltr cg. min.

Clipped Planting - Taxus, Buxus

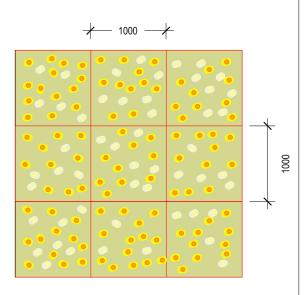


Groundcover shrubs:

Planted at 5 per sqm, all 2ltr cg. min.



Groundcover - mix of grasses and perennials: Density of plants typically 7 per sqm, all 2ltr cg. min. Plants to be mixed randomly in clumps of 3-9.



Density of bulbs typically 15-20 per sqm.

Bulb drifts in grass

Groundcover planting beds, lawn and gravel trims

scale 1:50

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600mm Long bracing at joints

nailed to inside of timber edge,

25 mm below top of timber

min. 450

min. 450

min. 200

min. 450

Groundcover Mixes

Setting out - clipped shrub planting, groundcover planting and bulbs

scale 1:50

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D20 Excavating and filling

To be read with Preliminaries/General conditions

CLEARANCE/EXCAVATING

164 TREE ROOTS

- · Protected area: Do not cut roots within precautionary protection area.
- Size of area: As shown on Ait drawings.
- Excavation in protected area:
- Method: By hand.
- Backfill as soon as possible or temporarily line with polyethylene sheet to reduce

evaporatio

- Outside protected area: Give notice of roots exceeding 25 mm and do not cut without approval.
- Cutting:
- Make clean smooth cuts with no ragged edges.
- Pare cut surfaces smooth with a sharp knife.
- Treatment of cut roots: Not required.
- · Backfill: As dug material, enriched with amelioration as section Q31.

166 TREE ROOT BARRIERS

- Trench: Sever all roots.
- Depth: As per Áit drawings.
- Root barrier: REROOT 2000, 2mm thick, 600mm deep, by Greenleaf.
- · Cutting roots: As clause 164.
- Root barrier installation: Full depth of excavation. Fit closely to trench wall nearest the tree.
- Backfill material: As dug material excavated from trench.
- Backfilling: Lay and compact thoroughly in layers not more than 300 mm thick.

168 SITE CLEARANCE

- Timing: Before topsoil stripping, if any.
- · General: Clear site of rubbish, debris and vegetation. Do not compact topsoil.
- Treatment: Apply a suitable non-residual herbicide to areas where; topsoil is to be excavated for re-use and existing soft landscape areas to be planted, seeded or turfed.

170 REMOVING SMALL TREES, SHRUBS, HEDGES AND ROOTS

- Identification: Clearly mark trees to be removed.
- Small trees, shrubs and hedges: Cut down
- · Roots: Grub up and dispose of without undue disturbance of soil and adjacent areas
- Safety: Comply with HSE/ Arboriculture and Forestry Advisory Group safety leaflets.

175 FELLING LARGE TREES

- · Definition: Girth over 600 mm.
- · Identification: Clearly mark trees to be removed.
- · Safety: Comply with HSE/ Arboriculture and Forestry Advisory Group safety leaflets.
- Felling: As close to the ground as possible.
- Stumps: Remove mechanically to a minimum depth of 300 mm below ground level.
- Work near retained trees: Take down trees carefully in small sections to avoid damage to adjacent trees that are to be retained, where tree canopies overlap and in confined spaces generally.

180 CHIPPING AND SHREDDING

· General: Not permitted.

220 STRIPPING TOPSOIL

- General: Before beginning general excavation or filling, strip topsoil from areas where there will be regrading, buildings, pavings/ roads and other areas shown on drawings.
- · Depth:

- Remove to an average depth of 300 mm.
- Give notice where the depth of topsoil is difficult to determine.
- · Handling: Handle topsoil for reuse or sale in accordance with clause 225.
- Around trees: Do not remove topsoil from below the spread of trees to be retained.
- Site storage: Keep separate from excavated sub-soil. Store in locations indicated on Ait drawings.

221 TREATING TOPSOIL

- Treatment: Apply a suitable translocated nonresidual herbicide.
- · Timing: Not less than two weeks before excavating topsoil.

225 HANDLING TOPSOIL

- Standard: To BS 3882.
- · Aggressive weeds:
- Species: Included in the Weeds Act, section 2 or the Wildlife and Countryside Act,

Schedule 9, part II.

- Give notice: Obtain instructions before moving topsoil.
- · Contamination: Do not mix topsoil with:
- Subsoil, stone, hardcore, rubbish or material from demolition work.
- Other soil or material containing aggressive weeds, sharps, plastics and non soil forming materials and notifiable animal or plant diseases.
- Oil, fuel, cement or other substances harmful to plant growth.
- Other classifications of topsoil.
- · Multiple handling: Keep to a minimum. Use topsoil immediately after stripping.

240 ADJACENT EXCAVATIONS

Refer to the Eningeers Specifications.

242 EXCAVATIONS ADJACENT TO EXISTING BACKFILLED TRENCHES

· Refer to the Eningeers Specifications.

244 EXCAVATIONS ADJACENT TO EXISTING FOUNDATIONS

· Refer to the Eningeers Specifications

245 EXCAVATIONS ADJACENT TO EXISTING FOUNDATIONS - CONTRACTOR'S DESIGN

• Refer to the Eningeers Specifications

246 EXCAVATIONS ADJACENT TO PILE SUPPORTED STRUCTURES

Refer to the Eningeers Specifications

248 BACKFILL TO EXCAVATIONS LOWER THAN FOUNDATION FORMATION LEVEL

Refer to the Engineers Specifications

250 PERMISSIBLE DEVIATIONS FROM FORMATION LEVELS

Refer to the Engineers Specifications

255 ACCURACY - LINEAR DIMENSIONS

· Refer to the Engineers Specifications

DISPOSAL OF MATERIALS

410 EXCAVATED TOPSOIL STORAGE

Storage: Stockpile in temporary storage heaps.

420 TOPSOIL STORAGE HEAPS

- Location: as indicted on Ait drawings
- · Standard: To BS 3882.
- · Height (maximum): 2.0metres.
- Protection:
- Do not place any other material on top of storage heaps.
- Do not allow construction plant to pass over storage heaps.

- Prevent compaction and contamination.

421 TOPSOIL STORAGE HEAP TREATMENT

- Treatment: Sow with Green Manure Seed Mix, sowing rate 20g/m2
- Seed mix: 25% Secale cereal (Forage Rye)

60% Pisum sativum subsp. arvensis (Minerva Maple Peas)

15% Vicia sativa (English Early Common Vetch)

441 SURPLUS SUBSOIL

- Excavated material: Stockpile in temporary storage heaps.
- · Retained material: Spread and level surplus subsoil on site.
- Locations: as indicated on draiwngs.
- Protected areas: Do not raise soil level within root spead of trees that are to be retained
- · Remaining material: Remove from site.

450 WATER

- · Generally: Keep all excavations free from water until:
- Formations are covered.
- Below ground constructions are completed.
- Basement structures and retaining walls are able to resist leakage, water pressure and flotation
- Drainage: Form surfaces of excavations and fill to provide adequate falls.
- Removal of water: Provide temporary drains, sumps and pumping as necessary. Do not
 pollute watercourses with silt laden water.

454 GROUND WATER LEVEL, SPRING OR RUNNING WATER

- Give notice: If it is considered that the excavations are below the water table.
- · Springs/ Running water: Give notice immediately if encountered.

457 PUMPING

- General: Do not disturb excavated faces or stability of adjacent ground or structures.
- Pumped water: Discharge without flooding the site or adjoining property.
- Sumps: Construct clear of excavations. Fill on completion.
- Locations: to specified by the Engineer.

460 PERMANENT DRAINAGE SYSTEM

Disposal of water from the excavations through system: Not permitted.

FILLING

610 COMPACTED FILLING FOR LANDSCAPE AREAS

- · Fill: Material capable of compaction by light earthmoving plant.
- Filling: Layers not more than 200 mm thick. Lightly compact each layer to produce a stable soil structure.

615 LOOSE TIP FILLING FOR LANDSCAPE AREAS

• Filling: Do not firm, consolidate or compact when laying. Tip and grade to approximate levels in one operation with minimum of trafficking by plant.

For all other filling: Refer to the Engineers Specifications

SOFT LANDSCAPE SPECIFCATION

Q28 Topsoil and growing media

To be read with Preliminaries/ General conditions.

200 GRADING SUBSOIL

- · General: Grade to smooth flowing contours to achieve specified finished levels of topsoil.
- Areas of thicker topsoil: Excavate locally.

250 SUBSOIL SURFACE PREPARATION

- General: Excavate and/ or place fill to required profiles and levels, as section D20.
- Loosening:
- Light and noncohesive subsoils: When ground conditions are reasonably dry, loosen thoroughly to a depth of 300 mm.
- Stiff clay and cohesive subsoils: When ground conditions are reasonably dry, loosen thoroughly to a depth of 450 mm.
- Rock and chalk subgrades: Lightly scarify to promote free drainage.
- Stones: Immediately before spreading topsoil, remove stones larger than 50 mm.
- · Remove Arisings, contaminants and debris and Builders rubble.

260 INSPECTING FORMATIONS

- · Give notice: Before spreading topsoil for lawn areas and planting beds.
- Notice period: 10 days.

310 PREPARATION OF UNDISTURBED TOPSOIL

- Standard: In accordance with BS 4428.
- Grading and cultivation: To suit cultivation operations specified in Q30 OR Q31.
- · Hard ground: Break up thoroughly.
- · Clearing: Remove visible roots and large stones with a diameter greater than 50 mm.
- Areas covered with turf or thick sward: Plough or dig over to full depth of topsoil.
- · Fallow period (minimum): two weeks.
- · Weed control: At appropriate times treat with a suitable translocated non-residual herbicide.

320 TEMPORARY CROP ON UNDISTURBED TOPSOIL

- Treatment: Sow with Green Manure Seed Mix, sowing rate 20g/m2.
- Seed mix: 25% Secale cereal (Forage Rye)

60% Pisum sativum subsp. arvensis (Minerva Maple Peas)

15% Vicia sativa (English Early Common Vetch)

· Maintenance: In accordance with seed supplier's recommendations.

330 SURPLUS TOPSOIL TO BE RETAINED

- · Generally: Spread and level on site:
- Locations: as per Ait drawings.
- Protected areas: Do not raise soil level within root spread of trees that are to be retained.

335 SURPLUS TOPSOIL TO BE REMOVED

· Generally: Remove from site topsoil remaining after completion of all landscaping work.

340 IMPORTED TOPSOIL TO BS 3882

- Quantity: Provide as necessary to make up any deficiency of topsoil existing on site and to complete the work.
- Standard: To BS 3882.
- · Classification: Sandy Clay Loam
- · Source: ENRICH (www.enrich.ie) or similar approved.
- · Submit: Declaration of analysis in accordance with BS 3882, Annex E.
- Additional analyses: Not required.

341 LOAD BEARING SOIL

- Quantity: Provide as necessary to make up any deficiency of topsoil existing on site and to complete the work.
 - Standard: n/a
- Classification: crushed stone, sandy clay loam, peat free compost. Total pore volume > 35%. Moisture Content 12-20%. Total
 Nitrogen 500 mg/L, Phosphorous 300mg/L, Potassium 450 mg/L, Magnesium 200 mg/L, Calcium 3000 mg/L, Sulphur 250 mg/L.
 Organic content (LOL) 3-7% w/w. CBR rating; greater than 40. Bulk density; 1.3ton/cubic metre. pH value 6.5-7.9. Water permeability
 1.7 x 10 m/s
- · Source: ENRICH (www.enrich.ie) or similar approved.
- Submit: Declaration of analysis in accordance with BS 3882, Annex E.
- Additional analyses: Not required.

355 COMPOST

- Standard: In accordance with PAS 100.
- Supplier: ENRICH (www.enrich.ie) or similar approved.
- Product reference: Multi Purpose Compost or similar approved.
- Type: Sanitized and stabilized compost.
- Horticultural parameters:
- pH (1:5 water extract): 7.0-8.7.
- Electrical conductivity (maximum, 1:5 water extract): 200 mS/m.
- Moisture content (m/m of fresh weight): 35-55%.
- Organic matter (minimum): 25%.
- Grading (air dried samples): 99% passing 25 mm screen, and 90% a 10 mm screen mesh aperture.
- Carbon: Nitrogen ratio (maximum): 20:1.
- Texture: Friable.
- · Objectionable odour: None.
- Composting Association certification: Not required.
- Submit: Declaration of analysis.
- · Additional analyses: Not required.
- Samples: Supply 5 kg sample before ordering.
- Application rate: 3:1, topsoil:compost max.
- Timing: Apply prior to cultivation.

650 NOTICE OF IMPORTING TOPSOIL

- · Give notice: Before stripping topsoil for transfer to site.
- Notice period: 5 days.

660 SAMPLE LOAD OF IMPORTED TOPSOIL

- General: Deliver to site a sample load of not less than 0.5 m³.
- · Give notice: Allow inspection before making further deliveries to site. Retain for comparison with subsequent loads.
- Notice period: 5 days.

670 CONTAMINATION

- · General: Do not use topsoil contaminated with subsoil, rubbish or other materials that are:
- Corrosive, explosive or flammable.
- Hazardous to human or animal life.
- Detrimental to healthy plant growth.
- · Subsoil: In areas to receive topsoil, do not use subsoil contaminated with the above materials.
- · Give notice: If any evidence or symptoms of soil contamination are discovered on the site, or in topsoil to be imported.

680 TOPSOIL STORAGE HEAPS

- · Location: as per Temporary Compound drawings.
- Height (maximum): 2.0 m.
- Width (maximum): 2.0 m.
- · Protection:
- Do not place any other material on top of storage heaps.
- Do not allow construction plant to pass over storage heaps.
- Prevent compaction and contamination, by fencing and covering as appropriate.

685 TEMPORARY CROP ON TOPSOIL STORAGE HEAPS

- Treatment: Sow with Green Manure Seed Mix, sowing rate 20g/m2
- Seed mix: 25% Secale cereal (Forage Rye)

60% Pisum sativum subsp. arvensis (Minerva Maple Peas)

15% Vicia sativa (English Early Common Vetch)

Maintenance: In accordance with seed supplier's recommendations.

690 HANDLING TOPSOIL

- · Aggressive weeds: Give notice and obtain instructions before moving topsoil.
- Plant: Select and use plant to minimize disturbance, trafficking and compaction.
- · Contamination: Do not mix topsoil with:
- Subsoil, stone, hardcore, rubbish or material from demolition work.
- Other grades of topsoil.
- Multiple handling: Keep to a minimum. Use or stockpile topsoil immediately after stripping.
- Wet conditions: Handle topsoil in the driest condition possible. Do not handle during or after heavy rainfall or when it is wetter than the plastic limit less 3%, to BS 1377-2.

700 SPREADING TOPSOIL

- Temporary roads/surfacing: Remove before spreading topsoil.
- · Layers:
- Depth (maximum): 150 mm.
- Gently firm each layer before spreading the next.
- Depths after firming and settlement (minimum): as per Ait details and drawings.
- Crumb structure: Do not compact topsoil. Preserve a friable texture of separate visible crumbs wherever possible.

710 LOOSE TIPPING OF TOPSOIL

- General: Do not firm, consolidate or compact topsoil when laying. Tip and grade to approximate levels in one operation with minimum of trafficking by plant.
- Depths after settlement (minimum): as per Ait details and drawings.

910 FINISHED LEVELS OF TOPSOIL AFTER SETTLEMENT

- · Above adjoining paving or kerbs: 25 mm.
- · Below dpc of adjoining buildings: Not less than 150 mm.
- · Shrub areas: Higher than adjoining grass areas by 75 mm.
- Within root spread of existing trees: Unchanged.
- · Adjoining soil areas: Marry in.
- · Thickness of turf or mulch: Included.

Q30 Seeding/turfing

To be read with Preliminaries/General conditions.

GENERAL INFORMATION/REQUIREMENTS

115 SEEDED AND TURFED AREAS

- Growth and development: Healthy, vigorous grass sward, free from the visible effects of pests, weeds and disease.
- · Appearance: A closely knit, continuous ground cover of even density, height and colour.

120 CLIMATIC CONDITIONS

· General: Carry out the work while soil and weather conditions are suitable.

145 WATERING

- · Quantity: Wet full depth of topsoil.
- · Application: Even and without displacing seed, seedlings or soil.
- Frequency: as necessary to ensure the establishment and continued thriving of all seeding/turfing.

146 WATERING

- · Quantity: Wet full depth of topsoil.
- · Application: Even and without displacing seed, seedlings or soil.
- · Frequency: twice weekly during dry spells.
- Dry Spell: posts 2 weeks without rain (precipitation less than 20mm in 14 days) during months April to September.

150 WATER RESTRICTIONS

 Timing: If water supply is or is likely to be restricted by emergency legislation do not carry out seeding/turfing until instructed. If seeding/turfing has been carried out, obtain instructions on watering.

160 NOTICE

- · Give notice before:
- Setting out.
- Applying herbicide.
- Applying fertilizer.
- Preparing seed bed.
- Seeding or turfing.
- Visiting site during maintenance period.
- · Period of notice: 1 week.

170 SETTING OUT

- · Boundaries: Mark clearly.
- · Delineation: In straight lines or smoothly flowing curves as shown on drawings.

PREPARATION

210 HERBICIDE FOR ALL GRASSED AREAS

- Type: Suitable for suppressing perennial weeds.
- Timing: Allow fallow period before cultivation.
- Duration: As manufacturer's recommendation.

212 SEED BED CLEANING BEFORE SOWING ALL GRASSED AREAS

• Operations: As seed supplier's recommendations...

222 SOIL AMELIORANT/CONDITIONERFOR ALL GRASSED AREAS

- Type: n/a.
- Reference/ Description/ Grading: n/a.
- · Samples: n/a.
- Application rate: n/a.
- Timing: Apply prior to cultivation.

250 CULTIVATION

- · Compacted topsoil: Break up to full depth.
- · Soil ameliorant/ Conditioner/ Fertilizer: n/a
- Tilth: Reduce topsoil to a tilth suitable for blade grading.
- Depth: 150 mm.
- Particle size (maximum): 10 mm.
- Material brought to the surface: Remove stones and clay balls larger than 50 mm in any dimension, roots, tufts of grass, rubbish and debris.

260 GRADING

- · Topsoil condition: Reasonably dry and workable.
- · Contours: Smooth and flowing, with falls for adequate drainage.
- Hollows and ridges: Not permitted.
- · Finished levels after settlement: 25 mm above adjoining paving, kerbs, manholes etc.
- Blade grading: May be used to adjust topsoil levels provided depth of topsoil is nowhere less than 150 mm.
- · Give notice: If required levels cannot be achieved by movement of existing soil.

270 FERTILIZERFOR ALL GRASSED AREAS

- Types: n/a
- Application: n/a
- Coverage: n/a

275 FERTILIZERFOR ALL GRASSED AREAS

- Type: n/a.
- Manufacturer: Submit proposals.
- Product reference: Submit proposals.
- · Application: Before final cultivation and three to five days before seeding/ turfing.
- Rate: Spread evenly at 70 g/m².

280 FINAL CULTIVATION

- · Timing: After grading and fertilizing.
- · Seed bed: Reduce to fine, firm tilth with good crumb structure.
- Depth: 25 mm.
- Surface preparation: Rake to a true, even surface, friable and lightly firmed but not over compacted.
- Remove surface stones/earth clods exceeding:

General areas: 20 mm.

Fine lawn areas: 10 mm.

 Adjacent levels: Extend cultivation into existing adjacent grassed areas sufficient to ensure full marrying in of levels.

290 PREPARATION FOR HYDRAULIC SEEDING

- · Clearance: Remove rubbish, and stones with any dimension exceeding: 40 mm.
- Herbicide:
- General weeds: Selective contact herbicide.
- Pernicious weeds: Selective hormone herbicide.
- · Grading: Smooth, flowing levels.
- Cultivation: Ensure grass roots can penetrate substrate.
- · Finished surface: Ribbed or rough textured.
- Reinforcement: As specialist contractor's recommendation.
- Fixing: As specialist contractor's recommendation.

SEEDING

310 GRASS SEED FOR ALL GRASSED AREAS

- · Mixture: 80% Fescue species, 20% Brown top bent.
- Application rate: 45 g/m².

311 MEADOW SEED MIX FOR ALL MEADOW AREAS

- Mixture: wildflower/ grass seed mix 20/80. Wildflower mix; EC 10 available from www.wildflowers.ie, grass; Bent/Fescue
- Application rate: 5 g/m².

319 QUALITY OF SEED FOR ALL GRASSED AREAS

- Freshness: Produced for the current growing season.
- · Certification: Blue label certified varieties.
- Standard: EC purity and germination regulations.
- Official Seed Testing Station certificate of germination, purity and composition: Submit when requested.
- · Samples of mixtures: Submit when requested.

330 SOWING

- · General: Establish good seed contact with the root zone.
- · Method: To suit soil type, proposed usage, location and weather conditions during and after sowing.
- Distribution: 2 equal sowings at right angles to each other.

335 GRASS SOWING SEASON

· Grass seed generally: April to June or August to October.

336 WILDFLOWER SOWING SEASON

· Wildflower seed generally: March to May or August to October.

PRE-EMERGENT HERBICIDEFOR ALL GRASSED AREAS

- Standard: Pesticide Safety Directorate approved.
- Application rate: In accordance with manufacturer's written recommendation
- Timing: Immediately after sowing.

350 TURF EDGING TO SEEDED AREAS

- Standard: To BS 3969, with no perennial ryegrass.
- Seed mix: Similar to seeded area.
- · Timing: Before sowing.
- Preparation: Rake back a 750 mm wide margin around prepared seed beds.
- Level of seed bed: Married in with turf.
- Placement: Single row laid end to end and trimmed to a line.
- Watering: On completion.

EDGES TO SEEDED AREAS ADJACENT TO PLANTING BEDS AND TREE PITS

- · Timing: After seeded areas are well established.
- Edges: Clean straight lines or smooth curves.
- Mulch and soil: Draw back to permit edging.
- Arisings: Remove.
- Completion: Respread soil and mulch.
- Grass cover: n/a.

405 CULTIVATED TURF FOR ALL GRASSED AREAS

- Supplier: n/a
- · Seed mixture: 80% Fescue species, 20% Brown top bent.
- · Properties of soil used for turf production: Well drained sandy loam.

TURF TO BS 3969 FOR ALL GRASSED AREAS

- Standard: To BS 3969, free from undesirable grasses and weeds.
- Grade: General purpose utility turf with no perennial ryegrass.
- Source: Submit proposals.

 Herbicide treatment: Apply not less than four weeks and not more than three months before lifting.

420 DELIVERY AND STORAGE

- Timing: Lay turf within 24 hours of delivery to site.
- · Frosty weather or waterlogged ground: Do not lift turf.
- · Delivery: Arrange to avoid need for excessive stacking.
- · Stacking height (maximum): 1 m.
- · Dried out or deteriorated turf: Do not use.

423 INSPECTION OF TURF

· Give notice: Before lifting turf for all grassed areas.

428 COMPOST DRESSING FOR TURF

- Type: Sanitized and stabilized compost.
- Supplier: ENRICH (www.enrich.ie) or similar approved.
- Product reference: Multi Purpose Compost or similar approved.
- Standard: To PAS 100.
- Horticultural parameters:
- pH (1:5 water extract): 7.0-8.7.
- Electrical conductivity (maximum, 1:5 water extract): 200 mS/m.
- Moisture content (m/m of fresh weight): 35-55%.
- Organic matter content (minimum): 25%.
- Grading (air dried samples): 100% passing screen mesh aperture of n/a.
- Carbon:Nitrogen ratio (maximum): 20:1.
- Texture: Friable.
- · Objectionable odour: None.
- · Composting Association certification: Not required.
- Declaration of analysis: Submit.
- Additional analyses: Not required.
- · Samples: Supply 5 kg sample before ordering.
- Application rate: n/a.
- Timing: Apply prior to cultivation.

429 DRESSING FOR TURF

- · Type: Sandy loam.
- · Supplier: n/a.
- Product reference: n/a.
- · Additional analyses: Not required.
- Samples: Supply 5 kg sample before ordering.
- Application rate: n/a.
- · Timing: Apply prior to cultivation.

430 TURFING GENERALLY

- · Time of year: April-September, unless otherwise instructed.
- Timing of laying:
- Spring and summer: Within 18 hours of delivery.
- Autumn and winter: Within 24 hours of delivery.
- Weather conditions: Do not lay turf when persistent cold or drying winds are likely to occur or soil is frost bound, waterlogged or excessively dry.
- · Working access: Planks laid on previously laid turf. Do not walk on prepared bed or newly laid turf.
- Jointing: Laid with broken joints, well butted up. Do not stretch turf.
- · Edges: Whole turfs, trimmed to a true line.
- Adjusting levels: Remove high spots and fill hollows with fine soil.
- Consolidating: Lightly and evenly firm as laying proceeds to ensure full contact with substrate. Do not use rollers.
- Dressing, brushed well in to completely fill all joints: 35% Finely sifted topsoil, 35% Compost, 30% Sand.
- Watering: Thoroughly water completed turf immediately after laying. Check that water has penetrated into the soil below.

TURFING ON BANKS EXCEEDING 30° SLOPE

- · Turf configuration: Diagonal or horizontal.
- Securing turfs:
- Fixings: Galvanized wire pins, bent or hairpin pattern, 200 mm long x 4 mm diameter or Pointed softwood pegs, 200 mm long x 25
- Frequency of fixings: Each turf.
- · Removal of fixings: When instructed. Make good any damage to grass until area is accepted.

TURF NETTING

- · Turf configuration: Diagonal or horizontal.
- Turf netting:
- Jute mesh;
- Plastics or nylon mesh; or
- Wire netting to BS EN 10223-2, 20 mm mesh size, 0.7 mm wire diameter, zinc coated.
- Fixings for netting: Galvanized wire pins, bent or hairpin pattern, 200 mm long x 4 mm diameter or Pointed softwood pegs, 200 mm long x 25 mm square.
- Frequency of fixings: 6 per m2 or 8 per m2.
- · Removal of mesh and fixings: When instructed. Make good any damage to grass until area is accepted.

TRIMMING TURF

- Newly planted tree pits: Neatly cut away around individual trees.
- Diameter: min. 1.0 metre.
- Tree pit surface: Respread existing mulch.

PROTECTING/CUTTING

PROTECTIVE FENCING

- Fencing type: As section Q40.
- Height: min. 1100mm
- Erection: On completion of seeding/ turfing.
- · Removal: After grass is well established. Fencing will remain the property of the Contractor.

FIRST CUT OF GRASSED AREAS

- · Timing: When grass is reasonably dry.
- Height of initial growth: 40-75 mm.
- Preparation:
- Debris and litter: Remove.
- Stones and earth clods larger than 25 mm in any dimension: Remove
- · Height of first cut: 40 mm.
- Mower type: Cylinder.
- · Arisings: As schedule.

FIRST CUT OF ALL GRASSED AREAS

- · Height of initial growth: As schedule.
- Preparation:
- Debris and litter: Remove.
- Stones and earth clods larger than 25 mm in any dimension: Remove
- · Height of first cut: As schedule.
- Mower type: As schedule.
- · Arisings: As schedule.

AREAS NOT TO BE CUT 550

· Do not cut:

n/a.

CLEANLINESS

Soil and arisings: Remove from hard surfaces.

· General: Leave the works in a clean, tidy condition at Completion and after any maintenance operations.

MAINTENANCE

MAINTENANCE

· Duration: Carry out the following operations from completion of seeding/ turfing until practical completion OR the end of the defects liability period.

FAILURES OF SEEDING/TURFING

- · Defective materials or workmanship: Areas that have failed to thrive.
- Exclusions: Theft or malicious damage.
- Method of making good: Recultivation and reseeding/ returfing.
- · Timing of making good: The next suitable planting season.

MAINTAINING GENERAL GRASSED AREAS

- · Maximum height of growth at any time: 75 mm.
- · Preparation: Before each cut remove all litter and debris.
- · Cutting: As and when necessary to a height of 50 mm.
- Arisings: Remove.
- · Bulb planting areas: Do not cut until bulb foliage has died down
- Trimming: All edges.
- Arisings: Remove.
- · Weed control: Substantially free of broad leaved weeds.
- Method: Application of a suitable selective herbicide.
- Stones brought to the surface: Remove regularly.
- Size: Exceeding 25 mm in any dimension.
- Areas of settlement: Make good.
- · Watering: When instructed.

MAINTAINING GRASSED AREAS WITH PERENNIAL WILD FLOWERS

- Preparation: Before each cut remove all litter and debris.
- · Height and frequency of cut in first growing season:
- Time of first cut: March/ April OR June/July.
- Height of first cut: 75 mm.
- Frequency of subsequent cutting (minimum): Every 6-8 weeks until autumn.
- Height of growth permitted (maximum): 100 mm.
- · Height and frequency of cut in second growing season:
- Time of cut: Single cut in October.
- Height of cut: 75 mm.
- Trimming: All edges.
- Arisings: Remove.
- · Watering: When instructed.

660 MAINTAINING GRASSED AREAS WITH ANNUAL WILD FLOWERS

- Preparation: Before each cut remove all litter and debris.
- · Timing of first cut: After flowers have set seed ...
- Height of first cut: n/a.
- · Subsequent cutting: As necessary, so the height of growth does not exceed n/a
- Height of cut: n/a.
- Trimming: All edges.
- Arisings: Remove.
- · Watering: When instructed.

MAINTENANCE FERTILIZERFOR ALL GRASSED AREAS EXCEPT WILDFLOWER **MEADOWS**

- · March application: 15:10:10 Spring turf fertilizer at 35 g/m².
- September application: 5:10:10 Autumn turf fertilizer at 50 g/m².

Q31 External planting

To be read with Preliminaries/General conditions.

GENERAL INFORMATION/ REQUIREMENTS

112 SITE CLEARANCE GENERALLY

- General: Remove rubbish, concrete, metal, glass, decayed vegetation and contaminated topsoil.
- · Stones: Remove those with any dimension exceeding 50 mm.
- · Contamination: Remove material containing toxins, pathogens or other extraneous
- substances harmful to plant, animal or human life.
- Vegetation: Clear scrub to ground level by flail mowing and remove arisings; retain and protect trees indicated on drawings.
- Large roots: Grub up and dispose of without undue disturbance of soil and adjacent areas.
- · Additional requirements: Removal of....

118 SOIL CONDITIONS

- Soil for cultivating and planting: Moist, friable and (excepting aquatic/ marginal planting) not waterlogged.
- Frozen or snow covered soil: Give notice before planting. Provide additional root protection. Prevent planting pit sides and bases and backfill materials from freezing.

120 CLIMATIC CONDITIONS

- · General: Carry out the work while soil and weather conditions are suitable.
- Strong winds: Do not plant.

125 TIMES OF YEAR FOR PLANTING

- Deciduous trees and shrubs: Late October to late March.
- · Conifers and evergreens: September/ October or April/ May.
- Herbaceous plants (including marginal): September/ October or March/ April.
- Container grown plants: At any time if ground and weather conditions are favourable.
- Watering and weed control: Provide as necessary.
- Dried bulbs, corms and tubers: September/ October.
- · Colchicum (crocus): July/ August.
- · Green bulbs: After flowering in spring
- · Wildflower plugs: Late August to mid-November or March/ April.
- Aquatic plants: May/ June or September/ October.

130 MECHANICAL TOOLS

• Restrictions: Do not use within 100 mm of tree and plant stems.

145 WATERING

- · Quantity: Wet full depth of topsoil.
- · Application: Even and without damaging or displacing plants or soil.
- Frequency: As necessary to ensure establishment and continued thriving of planting.

150 WATER RESTRICTIONS

• General: If water supply is or is likely to be restricted by emergency legislation, do not carry out planting until instructed. If planting has been carried out, obtain instructions on watering.

160 NOTICE

- · Give notice before:
- Setting out.
- Applying herbicide.
- Applying fertilizer.
- Delivery of plants/ trees.
- Planting shrubs.
- Planting trees into previously dug pits.
- Watering.

- Visiting site during maintenance period.
- · Period of notice: 3 working days.

165 PREPARATION, PLANTING AND MULCHING MATERIALS

 General: Free from toxins, pathogens or other extraneous substances harmful to plant, animal or human life.

200 PLANTS/ TREES - GENERAL

- · Condition: Materially undamaged, sturdy, healthy and vigorous
- Appearance: Of good shape and without elongated shoots.
- Hardiness: Grown in a suitable environment and hardened off.
- · Health: Free from pests, diseases, discoloration, weeds and physiological disorders.
- · Budded or grafted plants: Bottom worked.
- · Root system and condition: Balanced with branch system.
- Standard: The relevant parts of BS 3936.
- · Species: True to name.
- · Origin/ Provenance: As plant schedule.

Definition: Origin and Provenance have the meaning given in the National Plant Specification.

215 PLANTS/ TREES - SPECIFICATION CRITERIA

· Name, forms, dimensions, provenance and other criteria: As scheduled and defined in the National Plant Specification.

225 BULBS/ CORMS/ TUBERS

- · Condition: Firm, entire, not dried out or shrivelled.
- · Health: Free from pests, diseases and fungus.
- · Handling: Remove from packaging immediately.
- · Storage: Permitted only when necessary.
- Location: Well ventilated, dark, covered, rodent proof container, away from exhausts and fruit.
- Duration: Minimum period.
- Temperature: 18-21°C.

235 CONTAINER GROWN PLANTS/ TREES

- · Growing medium: With adequate nutrients for plants to thrive until permanently planted.
- · Plants: Centred in containers, firmed and well watered.
- · Root growth: Substantially filling containers, but not root bound, and in a condition conducive to successful transplanting.
- Hardiness: Grown in the open for at least two months before being supplied.
- Containers: With holes adequate for drainage when placed on any substrate commonly used under irrigation systems.

245 LABELLING AND INFORMATION

- General: Provide each plant/ tree or group of plants/ trees of a single species or cultivar with supplier's labelling for delivery to site, showing:
- Full botanical name.
- Total number.
- Number of bundles.
- Part bundles.
- Supplier's name.
- Employer's name and project reference.
- Plant specification, in accordance with scheduled National Plant Specification categories.
- Additional information: Submit on request:
- Country of origin;
- Date supplied and consignment details or reference;
- Impact of pest/ disease;
- Name or designation of rootstock of budded or grafted plants;
- Potting dates;
- Propagation method and dates;
- Pruning dates; and
- Type of container.

246 LABELLING AND INFORMATION

· Standard: To BS 3936.

255 PLANTS/ TREES RESERVED AT SUPPLIER'S PREMISES

- Types/ Species: As plant schedule.
- · Predelivery inspection: Give notice.
- · Labelling: Identify inspected plants/ trees as reserved for use on this project.

260 PLANT/ TREE SUBSTITUTION

· Plants/ trees unobtainable or known to be likely to be unobtainable at time of ordering:

Submit alternatives, stating:

- Price.
- Difference from specified plants/ trees.
- · Approval: Obtain before making any substitution.

265 PLANT HANDLING, STORAGE TRANSPORT AND PLANTING

- Standard: To HTA 'Handling and establishing landscape plants'.
- · Frost: Protect plants from frost.
- · Handling: Handle plants with care. Protect from mechanical damage and do not subject to shock, e.g. by dropping from a vehicle.
- Plant packaging: n/a.
- Packaging of bulk quantities: Pallets or bins sealed with polyethylene and shrink wrapped.
- · Planting: Upright or well balanced with best side to front.

275 PERMANENT IDENTIFICATION OF PLANTS

- · Location: n/a
- · Labels: n/a
- · Wording: n/a

280 TREATMENT OF TREE WOUNDS

- · Cutting: Keep wounds as small as possible.
- Cut cleanly back to sound wood using sharp, clean tools.
- Leave branch collars. Do not cut flush with stem or trunk.
- Set cuts so that water will not collect on cut area.
- · Fungicide/ Sealant: Do not apply unless instructed.

285 PROTECTION OF EXISTING GRASS

- General: Protect areas affected by planting operations using boards/ tarpaulins.
- Excavated or imported material: Do not place directly on grass.
- Duration: Minimum period.

290 SURPLUS MATERIAL

Subsoil, stones, debris, wrapping material, canes, ties, temporary labelling, rubbish, prunings and other arisings: Remove.

PREPARATION OF PLANTING BEDS/ PLANTING MATERIALS

300 HERBICIDE TO CLEAR OVERGROWN BEDS

- · Locations: All planting areas.
- Type: Suitable for supressing perennial weeds, Glyphosate or similar approved.
- · Timing: Allow fallow period before cultivation.
- Duration (minimum): as per manufacturer's recommendation.

305 WEED CONTROL FOR INVASIVE NON-NATIVE WEEDS

- · Locations: All planting areas.
- General: Prevent weeds from seeding and perennial weeds from becoming established, in accordance with the Environment Agency 'Managing Japanese knotweed on development sites. The knotwood code of practice'.

335 GENERAL FERTILIZERFOR ALL PLANTED AREAS

- · Locations: All planting areas.
- Manufacturer: submit proposals for landscape architects approval.

- Product reference: submit proposals for landscape architects approval.
- Application: Spread evenly.
- Timing: Immediately before cultivation.
- Rate: 120g/m2.

341 PFA

· Peat or products containing peat: Do not use.

361 COMPOSTFOR ALL PLANTED AREAS

- · Locations: All planting areas.
- Type: Sanitized and stabilized compost.
- Manufacturer/ Supplier: Enrich (www.enrich.ie)
- Product reference: Multi Purpose Compost
- · Standard: To PAS 100.
- · Horticulture parameters:
- pH (1:5 water extract): 7.0-8.7.
- Electrical conductivity (maximum, 1:5 water extract): 200 mS/m.
- Moisture content (m/m of fresh weight): 35-55%.
- Organic matter content (minimum): 25%.
- Grading (air dried samples): 99% passing 25 mm screen, and 90% passing 10 mm screen mesh aperture.
- Carbon:Nitrogen ratio (maximum): 20:1.
- · Texture: Friable.
- · Objectionable odour: None.
- · Composting Association certification: Required.
- · Application: Spread evenly.
- Timing: Apply prior to cultivation.
- Rate: 50 mm thick layer.
- · Other requirements: Submit 5kg sample before ordering

375 CULTIVATION

- · Compacted topsoil: Break up to full depth.
- · Cultivation: Loosen, aerate and break up soil into particles of 2-8 mm.
- Depth: as per Áit drawings and details...
- Timing: Within a few days before planting
- Weather and ground conditions: Suitably dry.
- Surface: Leave regular and even.
- Levels: as per Áit drawings and details...
- Undesirable material brought to the surface: Remove visible weeds, roots and large stones with any dimension exceeding 50 mm.
- · Soil within root spread of trees and shrubs to be retained: Do not dig or cultivate.

PLANTING SHRUBS/ HERBACEOUS PLANTS/ BULBS

400 RANDOM PLANT LAYOUTTO ALL BEDS

- Spacing: as per Áit drawings and details.
- Density: as per Áit drawings and details.

401 REGULAR PLANT LAYOUTTO ALL BEDS

- · Spacing: as per Ait drawings and details.
- · Density: as per Ait drawings and details.

405 SHRUB PLANTING PITS

- Timing: Excavate 2 days (maximum) before planting
- · Sizes: 150 mm wider than roots when fully spread and 300 mm deep.
- · Pit bottom improvement Break up to a depth of 150 mm.
- · Backfilling material: Reuse excavated material.

420 CLIMBING PLANTS

- Planting: 150 mm clear of supporting structure (e.g. wall/ fence) with roots spread outward.
- Branches: Lightly secured to supports.

- Climber supports:
- Stainless steel wire.
- Base height: as per Áit drawings and details.
- Extent: as per Ait drawings and details.
- Centres: as per Ait drawings and details.
- Distance from wall: as per Ait drawings and details.
- Fixings: Galvanized screw eyes.
- Centres: 2 m.

435 CLIMBING PLANTS USED AS GROUND COVER

- Planting:
- Canes or other supports: Remove.
- Arrangement: Spread stems.
- · Fixing: Pinned to ground to ensure good contact.

445 PLANTING BULBS/ CORMS/ TUBERS

- · Depth: Top of bulb/ corm/ tuber at a depth of approximately twice its height, base in contact with bottom of hole.
- · Backfilling: Finely broken soil. Lightly firm to existing ground level.
- · Naturalized planting in existing grassed areas:
- Scattering: Random. Plant bulbs/ corms/ tubers where they fall.
- Planting: Neatly remove a plug of turf and replace after planting.

470 FORMAL HEDGES

- Shrubs for hedges: Consistent in species, cultivar and clone to ensure a uniform hedge.
- Planting: In trenches large enough to take full spread of roots. Set out plants evenly.

471 NATURALIZED HEDGES

· Planting: In trenches large enough to take full spread of roots. Set out plants evenly.

472 FENCING SUPPORT FOR NEW HEDGES

Type: as per Áit drawings and details.

476 SHRUB, HERBACEOUS AND BULB BACKFILLING MATERIAL

- · Composition: Previously prepared mixture of topsoil excavated from pit and additional topsoil as required:
- Ameliorant/ Conditioner: as per Clause 361 above and Ait details.
- Fertilizer: n/a.

480 AFTER PLANTING

- · Watering: Immediately after planting, thoroughly and without damaging or displacing plants or soil.
- Firming: Lightly firm soil around plants and fork and/ or rake soil, without damaging roots, to a fine tilth with gentle cambers and no hollows.
- · Top dressing: n/a

485 MULCHING PLANTING BEDS

- · Material: Medium grade bark mulch, no splinters of fines.
- Purity: Free of pests, disease, fungus and weeds.
- Recycled content: None permitted.
- Preparation: Clear all weeds. Water soil thoroughly.
- Coverage: 75 mm depth.
- · Finished level of mulch: 50 mm below adjacent grassed or paved areas.

PLANTING TREES

505 TREE PITS

- Sizes: as per Áit drawings and details.
- Sloping ground: Maintain horizontal bases and vertical sides with no less than minimum depth throughout.
- Pit bottoms: With slightly raised centre. Break up to a depth of 200 mm.
- Treatment: as per Áit drawings and details.
- · Pit sides: Scarify.
- · Backfilling material: Reuse excavated material.

- · Accessories:
- Perforated plastics irrigation/ ventilation pipe;
- Root barrier; adjacent footpaths.
- Tree pit drainage layer; as per Áit drawings and details.
- Underground guying to BS 4043; and as per Áit drawings and details.

510 TREE PIT ROOT BARRIERS

- Locations: as per Áit drawings and details.
- Manufacturer Greenleaf or similar approved.
- Product reference: Reroot 2000, 2mm thick, 60mm deep.
- Depth of top of root barrier below finished soil level: Flush OR 25 mm OR 50 mm OR 75 mm.
- · Installation: With sides vertical.

512 TREE PIT ACCESSORIES

- · Locations: as per Áit drawings and details.
- Manufacturer: as per Ait drawings and details.
- Product reference: as per Ait drawings and details.
- Type: as per Áit drawings and details.

525 SEMIMATURE TREES

- · Standard: Prepare roots and transplant to BS 4043.
- · Backfilling material: as per Áit drawings and details.
- Support: as per Áit drawings and details.
- · Protection: as per Ait drawings and details.

535 STAKING GENERALLY

- Stakes: peeled chestnut, larch or oak, straight, free from projections and large or edge knots and with pointed lower end.
- Preservative treatment: pressure treated with 'Tanalith E' or similar approved.
- $\bullet\,$ Nails: To BS 1202-1, galvanized, minimum 25 mm long and with 10 mm diameter heads.
- Stake size (minimum): 50 mm diameter.

545 LONG SINGLE STAKING FORSTANDARD TREES

- Staking: Position stake close to tree on windward side and drive vertically at least 450 mm into bottom of pit before planting
- Backfilling: Consolidate material around stake.
- Height of stakes: Cut off just below lowest branch of tree.
- Ties: Adjustable ties.
- · Tying: Secure tree firmly but not rigidly to stake with at least two ties. Use three ties if necessary to prevent tree touching stake.
- Position: Top tie within 25 mm of top of stake and lower tie approximately halfway down.

555 SHORT SINGLE STAKING FORWHIPS AND FEATHERED TREES

- Staking: Position stake close to tree on windward side and drive vertically at least 450 mm into bottom of pit before planting.
- Backfiling: Consolidate material around stake
- Height of stakes: Cut to approximately 600 mm above ground level.
- · Ties: Adjustable ties.
- Tying: Secure tree firmly but not rigidly to stake with one tie within 25 mm of top of stake.

565 LONG DOUBLE STAKING FOR HEAVY STANDARD TREES / SEMI-MATURE TREES.

- Staking: Drive stakes vertically at least 450 mm into bottom of pit on either side of tree position before planting.
- Backfilling: Consolidate material around stakes.
- · Height of stakes: Cut off just below lowest branch of tree.
- Cross bar: Wood, as stake.
- Firmly fix on windward side of tree and as close as possible to stem.
- Ties: Adjustable ties.
- · Tying: Secure tree firmly but not rigidly to cross bar.

586 TREE BACKFILLING MATERIAL

· Composition: as per Áit drawings and details.

590 MULCHING TREES

· Material: Medium grade bark mulch or as per Áit drawings and details.

- Purity: Free of pests, disease, fungus and weeds.
- Recycled content: None permitted.
- · Preparation: Clear all weeds. Water soil thoroughly
- · Coverage: 75 mm depth, min. 1.0 metre diameter.
- Finished level of mulch: 50 mm below adjacent grassed or paved areas.

WOODLAND/ MATRIX/ BUFFER ZONE PLANTING

600 WOODLAND WORK GENERALLY

- Services: Check for below and above ground services, including land drainage, in the vicinity. Give notice if they may be affected and obtain instructions before proceeding.
- · Safety: Comply with Arboriculture and Forestry Advisory Group Safety leaflets.

605 EXISTING VEGETATION/ WEED CLEARANCE

- Surface vegetation clearance: In areas shown on Áit drawings using suitable nonresidual herbicide.
- · Arisings: Remove.

615 EXISTING TREES/ SEEDLINGS/ COPPICE SHOOTS

- · Existing trees and seedlings: Retain.
- Coppice shoots: Thin to 3-5 stems per stool, removing all damaged, dead or diseased shoots.

617 REMOVING TREES AND HEDGES

- · Identification: Clearly mark trees and hedges to be removed.
- Work near retained trees: Where canopies overlap, take down trees carefully in small sections to avoid damage to adjacent trees that are to be retained.
- Arisings: Remove.
- Tree stumps: Remove mechanically to a minimum depth of 300 mm below ground level.

625 CULTIVATION

- · General: Rotary cultivate to full depth of topsoil.
- Consolidation: Leave for 1 month.
- · Soil within root spread of trees to be retained: Do not plough or cultivate.

NOTCH PLANTING IN UNCULTIVATED GROUND

- Notching: Make a vertical 'I', 'L', 'T' or 'H' notch.
- Depth: To accommodate full depth of roots.
- · Planting: Plant tree, close notch with root collar at ground level and firm the soil.

645 PLANTING IN TURF

- Preparation: Cut and upturn a turf of minimum 300 mm square.
- Notching: Make a vertical slit from the centre of the turf, to the side away from the prevailing wind.
 - Depth: To accommodate full depth of roots.
- · Planting: Plant tree, close notch with root collar at ground level and firm the soil.

655 FURROW PLANTING

- Notching: Make a vertical notch or pit on ridges.
 - Size of notch/ pit: Large enough to accommodate full depth/ spread of roots.
- Planting: Plant tree and backfill or close the notch with the root collar at ground level and firm the soil.

SETTING OUT

- · Distance between trees: as per Áit drawings.
- · Distance between rows: as per Ait drawings.

SOFT LANDSCAPE SPECIFCATION

680 SETTING OUT

· Planting density: as per Áit drawings.

PROTECTING/ MAINTAINING/ MAKING GOOD DEFECTS

710 MAINTENANCE

- Duration: Carry out the operations in the following clauses from completion of planting until practical completion OR the end of the defects liability period.
- · Frequency of maintenance visits: In accordance with the agreed maintenance schedule.

720 FAILURES OF PLANTING

- Defects due to materials or workmanship not in accordance with the Contract: Plants/ trees/ shrubs that have failed to thrive.
- Exclusions: Theft or malicious damage after completion.
- Rectification: Replace with equivalent plants/ trees/ shrubs.
- · Replacements: To match size of adjacent or nearby plants of same species or match original specification, whichever is the greater
- Timing of making good: In accordance with an agreed defects rectification programme.

730 PROTECTIVE FENCING

- · Fencing type: General pattern wire mesh fencing as section Q40.
- Height: n/a.
- · Erection: On completion of planting.
- · Removal: Fencing will remain the property of the Contractor. Remove and refill post holes following acceptance of rectified defects.

740 CLEANLINESS

- Soil and arisings: Remove from hard surfaces and grassed areas.
- General: Leave the works in a clean tidy condition at completion and after any maintenance operations.

750 PLANTING MAINTENANCE GENERALLY

- · Weed control: Maintain weed free area around each tree and shrub.
- Diameter (minimum): The larger of 1 m or the surface of original planting pit.
- Keep planting beds clear of weeds: By maintaining full thickness of mulch.
- Planted areas: Fork over beds as necessary to keep soil loose, with gentle cambers and no hollows. Take care not to reduce depth or
 effect of mulch.
- Precautions: Ensure that trees and shrubs are not damaged by use of mowers, nylon filament rotary cutters and similar powered tools
- · Staking: Check condition of stakes, ties, guys and guards.
- Broken or missing items: Replace.
- Rubbing: Prevent.
- Ties: Adjust to accommodate growth.
- Damage to bark: Cut back neatly with sharp knife. Prevent further damage.
- Frequency of checks: At each scheduled maintenance visit.
- Firming up: Gently firm loosened soil around trees/ shrubs. Straighten leaning trees/shrubs.
- Trees: Spray crown when in leaf during warm weather.
- Timing: After dusk.
- · Watering: When instructed

755 PLANTING MAINTENANCE - FERTILIZER

- · Time of year: March or April.
- Fertilizer: Slow release.
- Manufacturer: submit proposals.
- Product reference: submit proposals.
- Application: Evenly spread, carefully incorporating below mulch materials.
- Application rate: To manufacturer's recommendations.

760 PLANTING MAINTENANCE - PRUNING

- General: Prune to promote healthy growth and natural shape.
- Dead, dying, diseased wood and suckers: Remove.
- Timing: In accordance with the agreed maintenance schedule.

49

- Trees: Favour a single central leading shoot.
- Arisings: Remove.

790 FINAL MULCHING

- Timing: At end of the maintenance period.
- Watering: Ensure that soil is thoroughly moistened prior to remulching, applying water where necessary.
- Planting beds: Remulch. Depth (minimum): 75 mm.
- · Trees: Remulch. Depth (minimum): 75 mm.

Q35 Landscape maintenance

To be read with Preliminaries/ General conditions.

GENERALLY

105 MAINTENANCE OBJECTIVES

- · Location: Belgrove Student Housing, University College Dublin.
- Duration: 24 months post practical completion.
- · Aims:
- Enhanced landscape quality;
- Improved landscape visual amenity;
- Results:
- As scheduled.

110 NOTICE

- · Give notice before:
- Application of herbicide.
- Application of fertilizer.
- Watering.
- Each site maintenance visit.
- · Period of notice: 3 days.

130 REINSTATEMENT

 Damage or disturbance to soil structure, planting, grass, fencing, hard landscaping, structures or buildings: Reinstate to original condition

140 CONTROL OF MAMMALIAN PESTS

- · Specialist firms: n/a.
- Method: to be agreed.

155 WATERING

- · Supply: Potable mains water OR rain water from storage tank.
- · Quantity: Wet to field capacity.
- Application: Do not damage or loosen plants.
- Compacted soil: Loosen or scoop out, to direct water to rootzone.
- Frequency: As necessary for the continued thriving of all planting.

160 WATER RESTRICTIONS

• General: If water supply is, or is likely to be, restricted by emergency legislation, submit proposals for an alternative suitable source of water. Obtain instructions before proceeding.

170 DISPOSAL OF ARISINGS

- General: Unless specified otherwise, dispose of arisings as follows:
- Biodegradable remove to greenwaste recycling facility OR agreed compost heap on site
- Grass cuttings: remove to greenwaste recycling facility OR agreed compost heap on site .
- Tree roots and stumps: Remove from site.
- Shrub and tree prunings: Chip on site and spread under hedge plantings shown on drawing OR remove to green waste recycling facility.
- Litter and non-biodegradable arisings: Remove from site.

181 MECHANICAL EQUIPMENT

- · General: Minimize.
- · Prohibited equipment: none specified.
- Timing: Use of mechanical equipment allowed between the hours of 8:00 am and 6:00 pm only (Monday-Friday), 10:00am-6.00pm Saturday and Sunday.

190 LITTER

Extraneous rubbish not arising from the contract work: Collect and remove from site.

195 PROTECTION OF EXISTING GRASS

 General: Protect areas affected by maintenance operations using boards/tarpaulins. Do not place excavated or imported materials directly on grass.

197 CLEANLINESS

- · Soil and arisings: Remove from hard surfaces.
- General: Leave the works in a clean, tidy condition at completion and after any maintenance operations.

GRASSED AREAS

210 MAINTENANCE OF GRASSED AREAS

- General: Maintain turf in a manner appropriate to the intended use.
- Soil and grass:
- Condition: Maintain a healthy vigorous sward, free from disease, fungal growth, discolouration, scorch or wilt
- Waterlogging and compaction: Prevent.
- Damage: Repair trampling, abrasion or scalping.
- · Ornamental lawns: Maintain reasonably free from moss, excessive thatch, weeds, frost heave, worm casts.
- Edges: Neat and well defined, in clean straight lines or smooth flowing curves.
- · Litter and fallen leaves: Remove regularly to maintain a neat appearance.

220 GRASS CUTTING GENERALLY

- · Before mowing: Remove litter, rubbish and debris.
- Finish: Neat and even, without surface rutting, compaction or damage to grass.
- Edges: Leave neat and well defined. Neatly trim around obstructions.
- Adjoining hard areas: Sweep clear and remove arisings.
- · Drought or wet conditions: Obtain instructions.

226 TREE STEMS

- Precautions: Do not allow nylon filament rotary cutters and other mechanical tools closer than 100 mm to the stem of any tree.
- Operations close to stems: Complete using hand tools.

235 BULBS AND CORMS IN GRASSED AREAS

- · Before flowering: Do not cut.
- · Interval between end of flowering and start of grass cutting (minimum): 2 weeks.

240 MOWING STRIPS

- · Location: at base of walls.
- Width (approximate): n/a
- · Operations: maintain with nylon filament rotary cutters and other mechanical tools.

250 LEAF REMOVAL

- · Operations: Collect fallen leaves.
- · Special requirements: Remove by hand raking.
- · Disposal: remove to compost heap on site OR remove off site to a greenwaste recycling facility

255 FIRST CUT OFALL GRASSED AREAS

- · Height of initial growth: 100mm
- Preparation:
- Debris and litter: Remove.
- Stones and earth clods larger than 25 mm in any dimension: Remove
- · Height of first cut: 50 mm.
- Mower type: not specified
- Arisings: remove to compost heap on site OR remove off site to a greenwaste recycling facility.

260 MOWING LAWNS

- · Grass height: Maintain between 25 and 50 mm.
- Arisings: remove to compost heap on site OR remove off site to a greenwaste recycling facility.

262 MOWING SPORTS FIELDS

- Grass height: 25 mm maximum.
- Arisings: remove to compost heap on site OR remove off site to a greenwaste recycling facility.

265 MOWING GENERAL AREAS

- · Grass height: Maintain between 50 and 75 mm.
- Arisings: remove to compost heap on site OR remove off site to a greenwaste recycling facility.

270 MOWING ROUGH GRASSED AREAS

- Grass height: 75 mm maximum.
- Arisings: remove to compost heap on site OR remove off site to a greenwaste recycling facility.

272 MAINTAINING GRASSED AREAS WITH PERENNIAL WILD FLOWERS

- Preparation: Before each cut remove litter and debris.
- Height and frequency of cut in first growing season:
- Time of first cut: March/ April.
- Height of first cut: 100 mm
- Frequency of subsequent cutting (minimum): Every 6 to 8 weeks until autumn.
- Height of growth permitted (maximum): 125 mm.
- Height and frequency of cut in second growing season:
- Time of cut: Single cut in October.
- Height of cut: 100 mm.
- Trimming: All edges.
- Arisings: remove to compost heap on site OR remove off site to a greenwaste recycling facility
- Watering: When instructed.

273 MAINTAINING GRASSED AREAS WITH ANNUAL WILD FLOWERS

- · Preparation: Before each cut remove all litter and debris.
- · Timing of first cut: After flowers have set seed...
- Height of first cut: 100 mm.
- Subsequent cutting: Cut as necessary, so the height of growth does not exceed 125 mm.
- Height of cut: 100 mm.
- Trimming: All edges.
- Arisings: remove to compost heap on site OR remove off site to a greenwaste recycling facility
- · Watering: When instructed.

275 CUTTING SUMMER FLOWERING WILD FLOWER MEADOWS

- · Times of year/ Frequency of cutting: August-September
- · Height of cut: 100 mm.
- · Arisings: remove to compost heap on site OR remove off site to a greenwaste recycling facility.

280 CUTTING SPRING FLOWERING WILD FLOWER MEADOWS

- Times of year/ Frequency of cutting: August-September.
- · Height of cut: 100 mm.
- Arisings: remove to compost heap on site OR remove off site to a greenwaste recycling facility.

285 TOP DRESSING

- Location: All lawns.
- · Timing: Following scarification and aeration
- Material: Dry sand.
- · Supplier: n/a.
- Product reference: n/a.
- · Declaration of analysis: Not required.
- Additional analyses: Not required.
- Samples: Supply 5 kg sample before ordering.
- Application rate: 1.5 kg/m².

290 ROLLING

- · Location: All lawns.
- · Timing: February or March, after first mowing.

- Roller: 100 kg (2 cwt).
- Operations: Consolidate turf and reduce frost heave.

295 SPIKING

- · Location: All lawns.
- Timing: As necessary to relieve compaction.
- Operations: Aerate the soil and improve surface water penetration.
- · Depth (minimum): 100 mm into soil.

300 SCARIFYING

- · Location: All lawns.
- · Timing: October or November, before top dressing.
- · Operations: Relieve thatch conditions and remove dead grass.
- · Depth (maximum): 25 mm into soil.
- · Arisings: remove to compost heap on site OR remove off site to a greenwaste recycling facility.

305 HARROWING

- Location: All lawns.
- · Timing: October or November, after top dressing.
- Operations: Aerate soil and remove worm casts.
- · Type of harrow: Chain harrow or drag mat.

307 HOLLOW TINING

- · Location: All lawns.
- Timing: As necessary to relieve compaction.
- Depth: 100 mm.

309 EDGES TO SEEDED AREAS

- · Location: Planting beds and around newly planted trees.
- · Timing: After seeded areas are well established.
- Edges: Cut to clean straight lines or smooth curves. Draw back soil to permit edging.
- Arisings: Remove to compost heap on site OR remove off site to a greenwaste recycling facility.

310 RE-FORMING GRASS EDGES

- Location:
- All edges;
- Path edges;
- Planting bed edges;
- Service access cover edges; and
- Where damage occurs.
- · Edges: Draw back soil and re-form edges to clean straight lines or smooth flowing curves, sloping slightly back from vertical.

325 RELIEVING SURFACE COMPACTION IN TURF

- Standard: To BS 7370-3.
- · Method: Spiking OR Surface slitting OR vertical lifting .
- Top dressing: Medium to fine sand.
- Depth: 2-3 mm.

330 SELECTIVE HERBICIDE

- Location: All lawns.
- · Herbicide: Combined weed and feed mix.
- Areas not to be sprayed: Bulb and corm planted areas when in leaf AND/OR desirable herbaceous planting AND/OR Wildflower
 areas.

340 SPOT WEEDKILLING IN ROUGH GRASS AREAS

- · Herbicide: Suitable for suppressing perennial weeds; Glyphosate or similar approved.
- · Operations: Spot treat
- all broad leaved weeds;
- docks (Rumex spp);
- injurious weed species listed in the Weeds Act 1959 and Wildlife and Countryside Act 1981;

- Japanese knotweed (Fallopia spp);
- nettles (Urtica spp);
- ragworts (Senecio spp);
- thistles (Cirsium spp); and
- willowherb (Epilobium spp).

345 CONTROL OF JAPANESE KNOTWEED

- · Operations: Spot treat in June and September during suitable weather conditions and when plants are growing vigorously.
- Herbicide: In accordance with the Environment Agency 'Code of Practice for the management, destruction and disposal of Japanese knotweed'.
- Application: In accordance with the Environment Agency (UK) 'Code of Practice for the management, destruction and disposal of Japanese knotweed'.
- Arisings: In accordance with the Environment Agency 'Code of Practice for the management, destruction and disposal of Japanese knotweed'.

350 FERTILIZER - SPRING APPLICATION

- · Type: Slow release OR organic.
- · Application rate: 100 g/m².

360 FERTILIZER - AUTUMN APPLICATION

- · Type: Slow release OR organic.
- Application rate: 100 g/m².

370 WORM CONTROL

- · Location: n/a.
- · Manufacturer: n/a.
- Product reference: n/a.
- · Timing: n/a.

375 PEST CONTROL

- · Location: n/a.
- Treatment: n/a.
- Manufacturer: n/a.
- $Product\ reference:\ n/a.$
- Timing: As manufacturer's recommendation.

380 REINSTATEMENT OF DAMAGED LAWNS

- Damaged turf: Remove to a depth of 40 mm.
- · Preparation: Cultivate substrate to a fine tilth.
- Reinstatement:
- Returfing: Quality and appearance to match existing.
- Reseeding: Fill with fine topsoil to BS 3882 multi purpose class, free from stones, debris and weeds. Reseed with a seed mix to match existing grass in quality and appearance.
- · Protection and watering: Provide as necessary to promote successful germination and/ or establishment.

FLOWER BEDS/ SEASONAL BEDDINGS

460 BEDS OF PERENNIALS OR PERENNIALS AND ANNUALS

- · Plant supports: as required Stake and tie plants using
- bamboo canes;
- Length: To suit plant height.
- Maintain throughout the growing season.
- Gaps in planting: replace failures.
- · Watering:
- New plants: Before and after planting out.
- Ongoing: As necessary for the continued thriving of all planting.
- · Operations at end of growing season:
- Trim: Older flowering stems of herbaceous perennials.
- Remove: Redundant plant supports, litter, debris and arisings.

- Cultivate: Fork over the soil, taking care not to cause undue disturbance to plants.
- Top dress: Apply sanitized and stabilized compost top dressing OR Fertilizer at a rate of 60g/m2.
- · Fungicide: Not required.
- · Insecticide: Not required.

SHRUBS/TREES/HEDGES

500 ESTABLISHMENT OF NEW PLANTING

- · Duration: Two full growing seasons from the date of planting.
- · Weed control:
- Method: Keep planting beds clear of weeds by hoeing and screefing OR maintaining full thickness of mulch OR use of suitable
- Area: Maintain a weed free area around each tree and shrub, minimum diameter the larger of 1 m or the surface of the original planting pit.
- · Soil condition: Fork over beds to keep soil loose, with gentle cambers and no hollows. Do not reduce depth or effect of mulch.
- · Watering: When instructed.

502 ESTABLISHMENT OF NEW PLANTING - FERTILIZER

- · Time of year: March or April.
- Type: Organic OR slow release
- · Spreading: Spread evenly. Carefully lift and replace any mulch materials.
- Application rate: As manufacturer's recommendations.

510 TREE STAKES AND TIES

- · Inspection/ Maintenance times: on scheduled maintenance visits and immediately after strong winds.
- Stakes:
- Replace loose, broken or decayed stakes to original specification.
- If longer than half of clear tree stem height, cut to this height in spring. Retie to tree firmly

but not tightly with a single tie.

- Ties: Adjust, refix or replace loose or defective ties, allowing for growth and to prevent chafing.
- Where chafing has occurred, reposition or replace ties to prevent further chafing.
- Removal of stakes and ties: When instructed.
- Fill stake holes with lightly compacted soil.

515 TREE GUY WIRES

- · Inspection/ Maintenance times: on scheduled maintenance visits and immediately after strong winds.
- Operations:
- Replace or resecure loose or missing guy wires.
- Adjust to suit stem growth and to provide correct and uniform tension.
- Removal: When instructed.

520 REFIRMING OF TREES AND SHRUBS

- · Timing: After strong winds, frost heave and other disturbances.
- · Refirming: Tread around the base until firmly bedded.
- Collars in soil at base of tree stems, created by tree movement: Break up by fork, avoiding damage to roots. Backfill with topsoil and refirm.

525 TREE GUARDS

• Loose or defective guards: Adjust, refix or replace to original specification and to prevent chafing.

30 TREE SHELTERS

- · Loose or defective shelters: Adjust, refix or replace to original specification and to prevent chafing.
- · Removal: When instructed.

535 TREE GRILLES

• Operations: Lift grilles, remove weeds, adjust levels as necessary and lightly compact. Refit grilles, refill interstices and lightly compact to correct level.

· - Material for making up levels and refilling: Horticultural grit OR Sharp sand OR 6 mm to dust granite aggregate.

540 PRUNING GENERALLY

- · Pruning: In accordance with good horticultural and arboricultural practice.
- Removing branches: Do not damage or tear the stem or bark.
- Wounds: Keep as small as possible and cut cleanly back to sound wood.
- Cutting: Make cuts above and sloping away from an outward facing healthy bud, angled so that water will not collect on cut area.
- Larger branches: Prune neither flush nor leaving a stub, but using the branch bark ridge

or branch collar as a pruning guide.

- Appearance: Thin, trim and shape each specimen appropriately to species, location, season, and stage of growth, leaving a well balanced natural appearance.
- Tools: Use clean sharp secateurs, hand saws or other approved tools. Trim off ragged edges of bark or wood with a sharp knife.
- · Disease or infection: Give notice if detected.
- Growth retardants, fungicide or pruning sealant: Do not use unless instructed.

545 PRUNING OF EXCESSIVE OVERHANG

- · Timing: as instructed.
- · Operations: Remove growth encroaching onto grassed areas, paths, roads, signs, sightlines and road lighting luminaires.
- · Special requirements: None.

550 PRUNING OF EXCESSIVE HEIGHT

· Timing: as instructed.

Operations: Remove excessive height as instructed

555 PRUNING TREES AND SHRUBS

- Standard: To BS 7370-4.
- Special requirements: Growth retardents not permitted

570 FORMATIVE PRUNING OF YOUNG TREES

- Standard: Type and timing of pruning operations to suit the plant species.
- Time of year: Do not prune during the late winter/ early spring sap flow period.
- · Young trees up to 4 m high:
- Crown prune by removing dead branches and reducing selected side branches by one third to preserve a well balanced head and ensure the development of a single strong leader.
- Remove duplicated branches and potentially weak or tight forks. In each case cut back to live wood.
- · Whips or feathered trees: Do not prune.
- · Operatives: competent and trained person(s).

575 PRUNING ORNAMENTAL SHRUBS

- General: Prune to encourage healthy and bushy growth and desirable ornamental features, e.g. flowers, fruit, autumn colour, stem colour.
- · Suckers: Remove by cutting back level with the source stem or root

580 PRUNING FLOWERING SPECIES OF SHRUBS AND ROSES

- · Time of year:
- Winter flowering shrubs: Spring.
- Shrubs flowering between March and July: Immediately after the flowering period.
- Shrubs flowering between July and October: Back to old wood in winter.
- Rose bushes: Early spring to encourage basal growths and a balanced, compact habit.

590 PRUNING PARTICULAR SPECIES

Species to be pruned to separate specific instructions: none specified.

600 TRIMMING RAPIDLY ESTABLISHING HEDGES

- General: Allow to reach planned height as rapidly as possible.
- Form: Trim back lateral branches moderately.

605 TRIMMING SLOWLY ESTABLISHING HEDGES

· Operations:

- Timing: Cut back hard in June and September to encourage bushy growth down to ground level.
- Form: Allow to reach planned dimensions only by gradual degrees, depending on growth rate and habit.

610 TRIMMING TAPERING ESTABLISHED HEDGES

- Time of year: Regular trimming from June to September OR Trim once in July or August
- Operations:
- Form: Trim carefully and neatly to regular line and shape, with the width at the top less than that at the base.
- Trim: Remove current growth rather than old wood.
- Tools/ Cutting: Shears OR Suitable mechanical cutters OR Secateurs .

611 TRIMMING NONTAPERING ESTABLISHED HEDGES

- Time of year: Regular trimming from June to September OR Trim once in July or August.
- Operations:
- Form: Trim carefully and neatly to regular line and shape with vertical sides.
- Trim: Remove current growth rather than old wood.
- Tools/ Cutting: Shears OR Suitable mechanical cutters or Secateurs.

615 TRIMMING FIELD HEDGES

· Operations: Trim to specified height and profile using suitable mechanical cutters. Do not trim from March-October.

620 REMOVAL OF DEAD PLANT MATERIAL

 Operations: At the end of the growing season, check all shrubs and remove all dead foliage, dead wood, and broken or damaged branches and stems

625 CLIMBING PLANTS

- · Pruning: Remove excess growth, to ensure that signs, light fittings, doors and windows are kept clear at all times.
- Insecure growth: Attach to supporting wires or structures using Stainless steel wire.
- · Supporting structures: Check and repair as necessary.

630 DEAD AND DISEASED PLANTS

- · Removal: Within one week of notification.
- · Replacement: Within two weeks.

635 REINSTATEMENT OF SHRUB/ HERBACEOUS AREAS

- Dead and damaged plants: Remove.
- Mulch/ matting materials:
- Carefully move to one side and dig over the soil, leaving it fit for replanting.
- Do not disturb roots of adjacent plants.
- Replacement plants:
- Use pits and plants: To original specification or to match the size of adjacent or nearby plants of the same species, whichever is the greater.
- Additional requirements: Submit details and cost of plants before ordering.
- Dressing: Slow release fertilizer:
- Type: Chemical OR Organic.
- Application rate: As manufacturer's recommendations.

645 WEED CONTROL GENERALLY

- Weed tolerance: At all times, weed cover less than 5% and no weed to exceed 100 mm high.
- Adjacent plants, trees and grass: Do not damage.

650 HAND WEEDING

- General: Remove weeds entirely, including roots.
- · Disturbance: Remove the minimum quantity of soil, and disturb plants, bulbs and mulched surfaces as little as possible.
- · Completion: Rake area to a neat, clean condition.
- · Mulch: Reinstate to original depth.

657 HERBICIDE TO KILL REGROWTH

· Type: Suitable foliar acting herbicide to kill regrowth.

Timing: Allow recommended period for herbicide to take effect before clearing dead weeds.

665 WEED CONTROL WITH WINTER HERBICIDE

- · Type: Suitable residual soil acting herbicide.
- Time of year: Unless otherwise agreed, complete before end of March.
- · Timing: Allow recommended period for herbicide to take effect before clearing dead weeds.

670 WEED CONTROL WITH SUMMER HERBICIDE

- Type: Suitable foliar acting herbicide.
- Timing: Allow recommended period for herbicide to take effect before clearing dead weeds.

680 SOIL AERATION

- · Compacted soil surfaces:
- Prick up: To aerate the soil of root areas and break surface crust.
- Size of lumps: Reduce to crumb and level off.
- Damage: Do not damage plants and their roots.

685 SOIL LEVEL ADJUSTMENT

- Level of soil/mulch at edges of beds: Reduce to 50 mm below adjacent grass or hard surface.
- Arisings (if any): Spread evenly over the bed.

690 MAINTENANCE OF LOOSE MULCH

- Thickness (minimum): 75 mm.
- Top up: as required to ensure a consistent depth of 75mm.
- · Mulch spill on adjacent areas: Remove weeds and rubbish and return to planted area.
- · Weeding: Remove weeds growing on or in mulch by hand weeding OR Herbicide treatment

MAINTENANCE OF MULCH MATTING/ SHEET MULCHES

- General: Inspect and reattach or refirm mulch mats and sheet mulches.
- Type: Geotextile.
- Remove: After soil surface is fully covered by foliage.

695 FERTILIZING ESTABLISHED TREES AND SHRUBS

- · Time of year: not required unless otherwise instructed.
- Type of fertilizer: not required unless otherwise instructed
- Application: Spread evenly.
- Rate: As manufacturer's recommendations.

700 SNOW REMOVAL FROM SHRUBS/ TREES

- Standard: To BS 7370-4.
- Plants subject to snow removal: all.
- Timing: When instructed.

705 WINTER LEAF REMOVAL

- · Operations: Collect dead leaves from all communal open areas.
- · Arisings: Remove to a compost heap OR off site to a greenwaste recycling facility

710 WOODLAND PLANTING MAINTENANCE

- · Watering: In exceptional circumstances to prevent plants dying.
- Loose plants: Refirm surrounding soil, without compacting.
- · Vegetation: Except trees and coppice shoots to be retained, cut down to 200 mm above ground level within the plantation area.
- Arisings: Leave between rows.
- Ditches and drains: Keep clear.

715 WOODLAND THINNING

- · Mature planting density: n/a
- Timing: n/a

720 COPPICING

- Material to be coppiced All understorey material.
- Standard: Good forestry practice.
- · Cut stems: As low as possible, or to previous coppice level.
- Finish: Leave sloping upward towards the centre to promote rainwater runoff.
- · Brash: Stack around coppice stool to alleviate deer damage.
- Coppiced timber: not specified.

TREE WORK

810 TREE WORK GENERALLY

- Identification: Before starting work agree which trees, shrubs and hedges are to be removed or pruned.
- Protection: As section A34.
- Standards: To BS 3998 and Health & Safety Executive (HSE) 'Forestry and arboriculture safety leaflets'.
- Removing branches: Cut as Arboricultural Association Leaflet 'Mature tree management'. Cut vertical branches similarly, with no more slope on the cut surface than is necessary to shed rainwater.
- Appearance: Leave trees with a well balanced natural appearance.
- Chain saw work: Operatives must hold a Certificate of Competence.
- Tree work: To be carried out by an approved member of the Arboricultural Association.

815 ADDITIONAL WORK

· Defective, diseased, unsafe or weak parts of trees additional to those scheduled for attention: Give notice if detected.

820 PREVENTION OF WOUND BLEEDING

· Standard: To BS 3998, clause 8.

825 PREVENTION OF DISEASE TRANSMISSION

· Standard: To BS 3998, clause 9 and Appendix B.

830 CLEANING OUT AND DEADWOODING

- Remove:
- Dead, dying, or diseased wood, broken branches and stubs
- Fungal growths and fruiting bodies.
- Rubbish, wind blown or accumulated in branch forks.
- Wires, clamps, boards and metal objects, if removable without causing further damage and not part of a support structure that is to be retained
- Other unwanted objects, e.g. tree houses, swings.
- Climbing plants; remove.

835 CUTTING AND PRUNING GENERALLY

- · Tools: Appropriate, well maintained and sharp.
- Final pruning cuts:
- Chainsaws: Do not use on branches of less than 50 mm diameter.
- Hand saws: Form a smooth cut surface.
- Anvil type secateurs: Do not use.
- Removing branches: Do not damage or tear the stem.
- Wounds: Keep as small as possible, cut cleanly back to sound wood leaving a smooth surface, and angled so that water will not
 collect on the cut area.
- · Cutting: Cut at a fork or at the main stem to avoid stumps wherever possible. Large branches: Remove only with prior approval.
- Remove in small sections and lower to ground with ropes and slings.
- · Dead branches and stubs: When removing, do not cut into live wood.
- Unsafe branches: Remove epicormic shoots and potentially weak forks that could fail in adverse weather conditions.
- Disease or fungus: Give notice if detected. Do not apply fungicide or sealant unless instructed.

840 CROWN REDUCTION/ SHAPING

- · General: Cut back selectively to lateral or sublateral buds or branches to retain flowing branch lines without leaving stumps.
- Operations: as scheduled or instructed.

845 CROWN LIFTING

- · Clearances: Remove branch systems to give clearance.
- Height: as scheduled or instructed.

 Removing branches: Remove whole branches back to the stem, or cut lower portions of branches back to lateral or sublateral buds or branches. Do not leave stumps.

850 CROWN THINNING

- Removing branches: Remove inward growing, crossing, rubbing, dead and damaged branches.
- Thinning: Selectively remove secondary and small live branch growth evenly throughout the crown.
- Quantity: as scheduled or instructed.
- Cutting: Make no cuts of more than as per schedule.
- Branches: Cut back to lateral or sublateral buds or branches without leaving stumps.
- · Appearance: Leave a uniform and well balanced structure of branches and foliage.

855 CUTTING TREE ROOTS

- · Excavating: Use hand tools only.
- · Protected area: Do not cut roots within an area which is the larger of
- The branch spread of the tree.
- An area with a radius of half the tree's height, measured from the trunk.
- · Outside protected area: Give notice of roots exceeding 50 mm in diameter. Do not cut without approval.
- Cutting:
- Cutting: Make clean smooth cuts with a hand saw.
- Wounds: Minimize. Avoid ragged edges.
- Finishing: Pare cut surfaces smooth with a sharp knife.
- · Backfilling:
- Protection: Cover cut roots with clean sharp sand.
- Material: Backfill with original topsoil.

860 REMOVING TREES, SHRUBS AND HEDGES

- Standards: To BS 3998, Appendix A and Health & Safety Executive (HSE)/ Arboricultural and Forestry Advisory Group Safety Leaflets.
- Existing services: Check for below and above ground services. Give notice if they may be affected.
- Shrubs and smaller trees: Cut down and grub up roots.
- Tree stumps:
- Removal: Remove mechanically to a minimum depth of 300 mm below ground level.
- Removal by winching: Give notice. Do not use other trees as supports or anchors.
- · Protection: Avoid damage to neighbouring trees, plants and property.
- Work near retained trees: Where tree canopies overlap and in confined spaces generally, take down trees carefully in small sections
 to avoid damage to adjacent trees that are to be retained.
- Filling holes:
- Material: Use as-dug material and/ or imported soil as required.
- Finishing: Consolidate and grade to marry in with surrounding ground level.

865 BARK DAMAGE

- Wounds:
- Do not attempt to stop sap bleeding.
- Bark: Remove ragged edges using a sharp knife.
- Wood: Remove splintered wood from deep wounds.
- Size: Keep wounds as small as possible.
- Liquid or flux oozing from apparently healthy bark: Give notice.

870 CAVITIES IN TREES

- Investigation: Remove rubbish and rotten wood. Probe the cavity to find the extent of any decay, and give notice.
- · Water filled cavities: Do not drain.
- Sound wood inside cavities: Do not remove.
- · Cavity openings: n/a.

HARD LANDSCAPE AREAS/FENCING

900 SNOW CLEARANCE

- Clearance: when instructed.
- Deicing: during freezing conditions and/or immediately prior to freezing weather
- Material: local authority approved salt/grit.

- Timing: When instructed.
- Application rate: Spread evenly at a rate of As manufacturer's recommendations.

910 HARD SURFACES AND GRAVEL AREAS

- Herbicide: Apply a suitable foliar acting or residual herbicide. Allow recommended period for herbicide to take effect before clearing arisings.
- · Hard surfaces: Remove litter, leaves and other debris.
- · Surface gutters and channels: Remove mud, silt and debris.
- Drainage gullies: Empty traps and flush clean.
- · Gravel areas: Rake over. Remove weeds, litter, leaves and debris, and level off.
- · Repairs to flexible bituminous pavings: by others.
- Stain removal: In accordance with BS 7370-2, table 4.

915 PAVING SEALANT

- Type: n/a.
- Manufacturer: n/a.
- Product reference: n/a.
- · Application method: As manufacturer's recommendations.
- Coats: As manufacturer's recommendations.
- Coverage: As manufacturer's recommendations.

920 FENCING

• Fences: Inspect and repair to maintain protection against n/a.

930 GRAFFITI REMOVAL

- · Method: n/a.
- · Subsequent treatment: n/a.
- Finish: n/a.

Q40 Fencing

To be read with Preliminaries/ General conditions.

FENCING SYSTEMS

210 WOODEN POST AND RAIL FENCING

- Standard: To BS 1722-7
- Height: as per Áit drawings and details.
- · Wood: Larch or other European hardwoods.
- Treatment: pressure treated 'Tanalith C' or similar approved.
- Finish: natural
- · Maximum centres of posts: as per Áit drawings and details.
- Method of setting posts: as per Ait drawings and details.
- Accessories:
- as per Áit drawings and details.

220 TEMPORARY PROTECTIVE FENCING

- · Height: as per Áit drawings and details.
- · Wood: Larch or other European hardwoods.
- Treatment: pressure treated 'Tanalith C' or similar approved.
- Finish natural
- Maximum centres of posts: as per Áit drawings and details.
- Method of setting posts: as per Ait drawings and details.
- Accessories:
- as per Áit drawings and details.

EXECUTION

710 INSTALLATION GENERALLY

- Set out and erect:
- Alignment: as per Áit drawings and details.
- Tops of posts: Following profile of the ground.
- Setting posts: Rigid, plumb and to specified depth, or greater where necessary to ensure adequate support.
- Fixings: All components securely fixed. All to be twice galvanized.

715 COMPETENCE

· Operatives: Contractors must employ competent operatives.

740 SETTING POSTS IN EARTH

- Holes: Excavated neatly, with vertical sides and as small as practicable to allow refilling.
- Filling: Position posts/ struts and replace excavated material, well rammed as filling proceeds.

770 SITE CUTTING OF WOOD

- · General: Kept to a minimum.
- Below or near ground level: Cutting prohibited.
- Treatment of surfaces exposed by minor cutting and drilling: Two flood coats of solution recommended for the purpose by main treatment solution manufacturer.

780 MAKING GOOD GALVANIZED SURFACES

- Treatment of minor damage (including on fasteners and fittings): Low melting point zinc alloy repair rods or powders made for this purpose, or at least two coats of zinc-rich paint to BS 4652.
- Thickness: Apply sufficient material to provide a zinc coating at least equal in thickness to the original layer.

790 SITE PAINTING

· Timing: Prepare surfaces and apply finishes as soon as possible after fixing

COMPLETION

910 CLEANING

- General: Leave the works in a clean, tidy condition.
- · Surfaces: Clean immediately before handover.

920 FIXINGS

- · All components: Tighten.
- Timing: Before handover.



(7.0) Outline Maintenance Schedule

Outline Maintenance Schedule

Project Name: Annual Landscape Maintenance													
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Minimum visits per Month	1	1	1	1	2	2	2	2	2	1	1	1	17
LAWN MAINTENANCE													
Cutting / Collection			1	2	2	2	2	2	2	1	1		15
Fertilising				1									1
Scarifying				1									1
Broadleaf Weed Control					1								1
Moss Control									1				1
Control Along Edges				1		1		1		1			4
Maintain Tree Circles			1		1		1		1		1		5
Wildflower/Meadow Grass Cut									1				1
Shrub/perennial maintenance													
Pruning		1			1		1				1		4
Hedge Cutting		1								1			2
Fertilising				1									1
Spot treat weed Control		1	1	2	2	2	2	2	2	2	1		17
Moss Control		1			1			1			1		4
Top up bark Mulching				1						1			2
Watering trees, hedge & shrubs	*MINIMUM FOR THESE MONTHS TO BE WATERED AS REQUIRED DURING GROWING SEASON											10	
HARD SURFACES													
Sweeping All Surfaces	1	1	1	2	2	2	2	2	2	1	1	1	18
Cleaning debris from curb lines	1	1	1	2	2	2	2	2	2	1	1	1	18
Cleaning work arisings	1	1	1	2	2	2	2	2	2	1	1	1	18
Weed Control				1					1				2
Moss Control			1			1			1			1	4
Snow and ice Control	AS INSTRUCTED												
MISCELLANEOUS													
Woodland Planting Weed Control			1	1	1	1	1	1	1	1			8
Tree stake / Tie Adjustments	1	1	1	1		1		1		1	1	1	9
Firm in any loose plants				1					1				2
Leaf Clearing from windtraps	1	1								1	1	1	5
Litter Collection	1	1	1	1	2	2	2	2	2	1	1	1	17
PLAY EQUIPMENT NOTE		Weekly in	spections	to be carr	ied out to	ensure eq	uipment is	s safely ma	intained to	o manufac	turers spe	cification.	



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