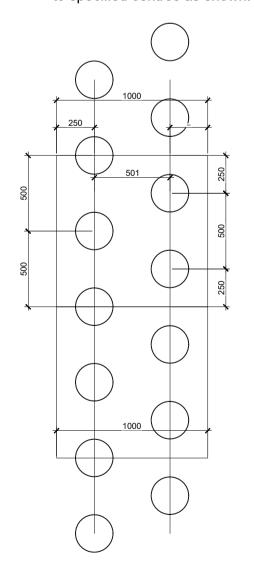


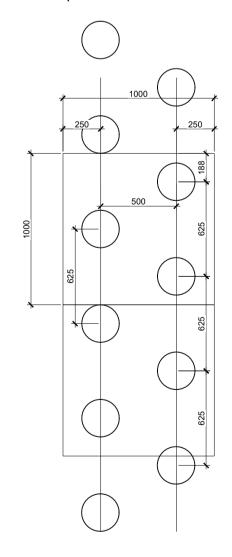
TREE PLANTING DETAIL A (clear or multi-stemmed trees)

- Q31/505 The tree pit should be excavated to allow adequate clearance between the root ends (when fully spread) and the side of the pit.
- Excavate the tree pit to 1200x1200x1000mm depth. Care is to be taken that soil removed from the pit does not damage existing landscape finishes (topsoil, mulch, plants, grass lawns etc); protection from foot damage is to be provided by the use of boards.
- Fork the bottom and sides of the pit to break up the sub-soil. Q31/586 Back-fill with 1200mm³ multi-purpose grade topsoil to BS:3882 as shown to the level of the roots. Scarify pit sides, and ensure pit bottom is slightly raised.
- 4. Q31/515 On heavy wet soils, provide a min 150mm depth of clean gravel or broken stone, with no fines, graded 40 to 20 mm with a geotextile filter membrane on top to aid drainage. Mix the dug soil with a slow-release fertiliser and an approved soil
- ameliorant.
- Stakes and rail to be half-round 150mm diameter planed finish. Drive in the stakes so that they are a minimum of 300mm below the bottom of the pit, and 650mm above the ground level. The stakes and rail are to be sweet chestnut or peeled larch poles, pointed at one end, preserved to resist rot for their intended lifespan, and strong enough to take galvanised screws without splitting.
- 7. Plant the tree, ensuring that the original depth is maintained and the soil is carefully firmed back up to the existing ground level.
- Secure the rail to the stakes with 2 no. galvanised screws per stake. 9. Secure the tree to the rail with 2 no. rainbow type rubber tree ties, screw-fixed to rails. Secure ties to allow for movement but to prevent damage to trunk.
- 10. Q31/512 Install irrigation/ventilation pipe, woven coil pipe wrapped 1.5 times to encircle rootball with plastic cover cap. Watering filler cap to finish slightly above mulch level.
- 11. Spread Q37/430 90gs/m² black non-woven geotextile landscape fabric over the back-filled topsoil (1200mmØ where tree is in lawn surfacing).
- 12. Spread Q37/430 75mm depth medium-grade bark mulch over around the tree, and maintain it until the spring following the first
- growing season (1200mmØ where tree is in lawn surfacing). 13. Protect the tree base and stem from damage by using a bamboo or hessian wrap tree guard to 2m height.
- 14. The stakes and rail are to be removed as soon as the tree is anchored securely by its own roots (generally at the start of the third growing season after planting.
- 4. Q31/510 wherever the installed rootball will be within 3.0 m of an existing underground service route and 2.0m of a building or paving foundation, install a tree pit root barrier, geotextile or cylinder type as appropriate. Top of root barrier to finish 75mm below finished soil level, installation with sides vertical.

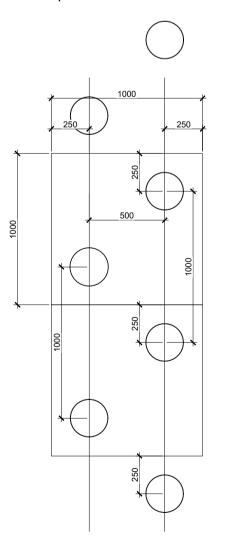
Planting Density: 4 per m² All shrub planting to follow 1m grid in straight parallel staggered rows to specified centres as shown.



Planting Density: 3 per m² All shrub planting to follow 1m grid in straight parallel staggered rows to specified centres as shown.



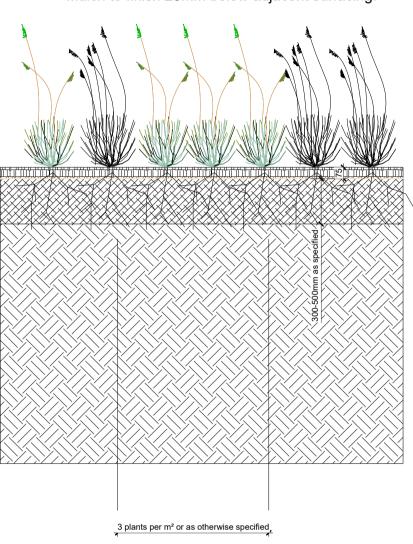
Planting Density: 2 per m² All shrub planting to follow 1m grid in straight parallel staggered rows to specified centres as shown.



- otherwise specified.

- secure with pins.
- specified, through cuts in landscape fabric. Provide one single cut 300mm per length per plant. All 300mm cuts to follow in one direction along length of landscape fabric (cross-cutting not accepted). 6. Once planted, back-fill with the remaining soil and

- firm as before.





SHRUB/TRANSPLANT PLANTING DETAIL 1. All shrub/transplant planting beds to Q31/315 300/450mm depth of quality approved multi-purpose grade topsoil to BS: 3882 or as

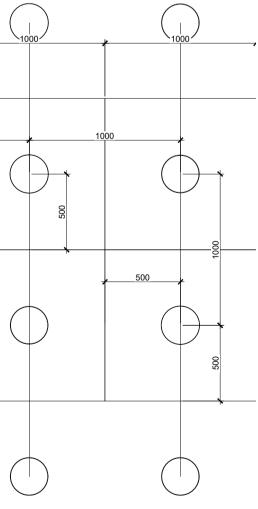
2. Break up the soil in the base of each pit. 3. Mix the dug soil with a slow release fertiliser and a

specified soil ameliorant. 4. Spread 90gs/m² black porous non-woven geotextile

landscape fabric over the back-filled topsoil and 5. Planting is to be carried out to the densities

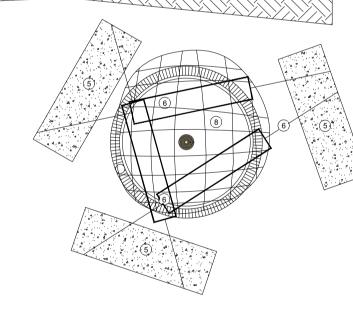
7. Top-dress the planting area with a Q37/430 75mm depth of medium-grade bark mulch, and maintain it until the spring following the first growing season. Mulch to finish 25mm below adjacent surfacing.

> Planting Density: 1 per m² All shrub planting to follow 1m grid in straight parallel staggered rows to specified centres as shown.



UNDER-GROUND GUYED TREE DETAIL B

- 1. Q31/515 150mm depth clean gravel or broken stone, with no fines, graded 40 to 20 mm
- 2.100mmØ perforated plastics drainage pipe laid around perimeter of pit within aggregate layer, connected to soakaway or drainage system to engineer's design detail & specification
- 3. Q31/515 Non-woven UV stable polypropylene fibre geotextile to be laid over aggregate before installing tree or backfill. 4. Q31/510 wherever the installed rootball will be within 3.0 m of an
- existing underground service route and 2.0m of a building or paving foundation, install a tree pit root barrier, geotextile or cylinder type as appropriate. Top of root barrier to finish 75mm below finished soil level, installation with sides vertical.
- 5. 3 no. pre-cast concrete 'dead-man' type kerbstones in base of planting pit to secure guying wires to. 6. Underground guying with min. 3 no. mat straps, 6mmØ galvanised mult--strand guying wires and dead-man kerbs to BS 4043. Use
- galvanised ratchet winder to tension guying wires. 7. Multi-purpose grade topsoil to BS:3882 with ameliorants and
- compost. 8. Tree planting: prepare roots and transplant to BS 4043; wrap trunks
- and lower branches with hessian strips and leave on for at least two summers. 9. Q31/512 Min. 50mmØ perforated plastics inlet/ventilation pipe with
- plastic cover cap in circle above and around rootball of tree. 10. Q31/385 Lay 90gs/m² UV-resistant black permeable weed-guard type geotextile over topsoil layer and plant shrubs through it.
- 11. Q31/385 75mm depth medium grade bark mulch or mulch cover as specified



UNDER-GROUND GUYED TREE DETAIL - PLAN

TREE NOTES:

Psy	Pinus sylvestris (scot's pine)
Вр	Betula pubescens (downey birch)
Рр	Prunus padus (bird cherry)
Pt	Populus tremula (aspen)
Ag	Alnus glutinosa (alder)
Sa	Sorbus aucuparia (rowan)

- Salix caprea (goat willow) multi-stemmed Sc Sau Salix aurita (eared willow) multi-stemmed
- Crataegus monogyna (hawthorn) multi-stemmed Cm Corylus avellana (hazel) multi-stemmed Ca
- Prunus spinosa (sloe) multi-steamed Ps
- Ligustrum vulgare (wild privet) multi-stemmed Lv Vo Viburnum opulus (guelder rose) multi-stemmed
- Ee *Euonymus europaeus* (spindletree)
- Level Notes: EX+ Existing Level TL+ Top of Landscape Finish **TP+ Top of Paving** TK+ Top of Kerb TW+ Top of Walls TE+ Top of Edging TR+ Top of Railing TB+ Top of Bench TS+ Top of Slab

- Ligu Fu

Co

Vib

Qtv.

P2 Sha Digi Ble Digi Ech Iris

Eup Poly Phy P3 Rip Dig

> lris p Poly Phy

H1 Hed llex Ligu

W1 Live Emb Sali

PLANTING SCHEDULE & SOFT LANDSCAPE MAINTENANCE - GROUND FLOOR

SOFT LANDSCAPE WORKS MAINTENANCE PROGRAMME

Bare root transplants, hedging and rootballed trees Containerised shrubs, perennials

12 months maintenance & defects liability period, to commence on practical completion of soft landscape works. Planted beds, trees, hedges and transplant planting 16 no. maintenance visits required per annum (April- October) carried out on a fortnightly basis and 2 additional visits over winter period. 16 no. maintenance visits required per annum.

12 months maintenance & defects liability period to planted beds, trees, hedges and transplant planting to be carried out at the same time as grass cutting, 16 no. maintenance visits required.

				Container-grown (cg)	Quality	
Species	Height (cm)	Pot Size	Density	/ Bare Root (br)	Specification	

All trees to be provided with 1.2m³ multi-purpose grade topsoil to BS3882 and planted as per planting details drawings, with root restrictor membrane where appropriate to ensure adjacent paving/services are not disturbed by root growth, and provided with irrigation where appropriate. NOTE: Trees above podium and at roof garden levels to be planted using dead man anchor system Ref 'Tree Planting Detail A' (both mutli-stemmed and clear stemmed).Trees along site perimeter to be double staked - Ref 'Tree Planting Detail B'.

<i>nus sylvestris</i> (Scots Pine)	30-35 cmg clear stemmed to 2m height planted to Planting Detail A
<i>nus sylvestris</i> (Scots Pine)	20-25 cmg clear stemmed to 2m height planted to Planting Detail A
<i>nus sylvestris</i> (Scots Pine)	18-20 cmg clear stemmed to 2m height planted to Planting Detail A
<i>nus sylvestris</i> (Scots Pine)	16-18 cmg clear stemmed to 2m height planted to Planting Detail A
opulus tremula (Aspen)	30-35 cmg clear stemmed to 2m height planted to Planting Detail A
opulus tremula (Aspen)	20-25 cmg clear stemmed to 2m height planted to Planting Detail A
opulus tremula (Aspen)	18-20 cmg clear stemmed to 2m height planted to Planting Detail A
nus glutinosa (Alder)	20-25 cmg clear stemmed to 2m height planted to Planting Detail A
nus glutinosa (Alder)	18-20 cmg clear stemmed to 2m height planted to Planting Detail A
etula pubescens (Downy Birch)	20-25 cmg clear stemmed to 2m height planted to Planting Detail A
etula pubescens (Downy Birch)	18-20 cmg clear stemmed to 2m height planted to Planting Detail A
etula pubescens (Downy Birch)	16-18 cmg clear stemmed to 2m height planted to Planting Detail A
orbus aucuparia (Rowan)	20-25 cmg clear stemmed to 2m height planted to Planting Detail A
orb <i>us aucuparia</i> (Rowan)	18-20 cmg clear stemmed to 2m height planted to Planting Detail A
orb <i>us aucuparia</i> (Rowan)	16-18 cmg clear stemmed to 2m height planted to Planting Detail A
<i>unus padus (</i> Bird Cherry)	20-25 cmg clear stemmed to 2m height planted to Planting Detail A
unus padus (Bird Cherry)	18-20 cmg clear stemmed to 2m height planted to Planting Detail A
etula pubescens (DownyBirch)	2.50m height multi-stemmed planted to Planting Detail A
alix caprea (Goat Willow)	2.50m height multi-stemmed planted to Planting Detail A
alix aurita (Eared Willow)	2.00m height multi-stemmed planted to Planting Detail A
<i>ataegus monogyna</i> (Hawthorn)	2.50m height multi-stemmed planted to Planting Detail A
<i>unus spinosa</i> (Blackthorn)	2.50m height multi-stemmed planted to Planting Detail A
orylus avellana (Hazel)	2.50m height multi-stemmed planted to Planting Detail A
b <i>urnum opulus</i> (Guelder Rose)	2.00m height multi-stemmed planted to Planting Detail A
gustrum vulgare (Wild Privet)	2.00m height multi-stemmed planted to Planting Detail A
<i>ionymus europaeus</i> (European spindle)	2.50m height multi-stemmed planted to Planting Detail A

Shrubs & Perennials

Lightweight topsoil mix by Enrich to various depths as shown finished with 75mm depth medium grade bark much .

y.	Species	Height (cm)	Pot Size	Density	Container-grown (cg) / Bare Root (br)	Quality Specification
	Perennial Mix	4	plants per m²			·
	line factionisme	10 60am	m²		07	
	Iris foetidissima	40-60cm	2lt 2lt		cg	
	Libertia grandiflora	40-60cm	2lt 2lt		cg	
	Kniphofia caulescens	40-60cm 40-60cm	2lt		cg	
	Euphorbia amygdaloides var. robbiae				cg	
	Echinacea purpurea 'Kim's Knee High'	40-60cm	2lt		cg	
	Rudbeckia fulgida 'Goldsturm'	40-60cm	2lt		cg	
	Agapanthus 'Storm Cloud'	40-60cm	2lt 2lt		cg	
	<i>Salvia nemorosa</i> 'Caradonna' <i>Ligularia</i> 'The Rocket'	40-60cm 40-60cm	2lt		cg	
		40-60cm	2lt		cg	
	Bergenia cordifolia 'Purpurea'	40-60011	211		cg	
	Shade Tolerant Perennial Mix	3	8 plants per m²			
			m²			
	Digitalis purpurea	40-60cm	2lt		cg	
	Blechnum spicant	40-60cm	2lt		cg	
	Digitalis grandiflora	40-60cm	2lt		cg	
	Echinacea pallida	40-60cm	2lt		cg	
	lris foetidissima	40-60cm	2lt		cg	
	Euphorbia amygdaloides var. robbiae	40-60cm	2lt		cg	
	Polystichum aculeatum	40-60cm	2lt		cg	
	Phyllitis (Asplenium) scolopendrium	40-60cm	2lt		cg	
	Riparian Understory Mix	3	β plants per m²			
			m²			
	Digitalis purpurea	40-60cm	2lt		cg	
	Blechnum spicant	40-60cm	2lt		cg	
	Digitalis grandiflora	40-60cm	2lt		cg	
	Iris pseudacorus	40-60cm	2lt		cg	
	Polystichum aculeatum	40-60cm	2lt		cg	
	Phyllitis (Asplenium) scolopendrium	40-60cm	2lt		cg	
	Lightweight topsoil mix by Enrich to various d	opths as show	n finic had with 75m	m donth modium	arado bark much	
		epiiis as silow	in himshed with 7 5hi	in depth medium	grade bark much .	
	Hedgerow Mix					
	llex Aquifolium (Holly)	40-60cm	1lt	4 per m²	cg	5 breaks in lower 1/3
	Ligustrum vulgare (Privet)	40-60cm	Transplant 1+1	4 per m²	br	
	Live Willow Cuttings for Bioengineering River Embankments					
	Salix caprea (Goat Willow)	40-60cm	Transplant 1+1	4per lin m	br	
	,		Transplant 1+1		br br	
	Salix aurita (Eared Willow)	40-60cm	Transplant 1+1	4per lin m	br	

Rev	Date	Description	Ву
		This drawing is copyright. Figured dimensions to be used in all ca All dimensions to be checked on site prior to commencement of w	

		ASSOCIATES E ARCHITECTS			
68 Pearse Street Dublin 2		tel: 01 6775670			
email: mail@sdacla.ie		fax: 01 6775669			
Client Malclose Limit	Project No.: 22-579				
Project Gowan Hou	ISE	^{Scale} 1:25 @ A1			
Title Planting Scheo	Date Issued 2023-10-09				
Drg № 22-579-SDA-PD-DR-XX-301					
Drawn BS	Purpose Planning	g ^{Checked} SD			