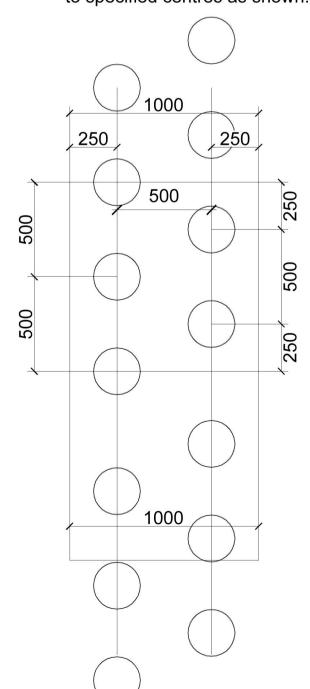
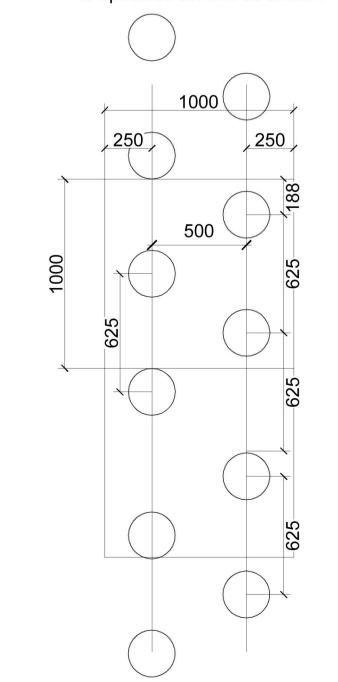
## SHRUB/TRANSPLANT PLANTING DETAIL 1. All shrub/transplant planting beds to Q31/315 300/450mm depth of quality approved multi-purpose grade topsoil to BS: 3882 or as otherwise specified. 2. Break up the soil in the base of each pit. 3. Mix the dug soil with a slow release fertiliser and a specified soil ameliorant. Spread 90gs/m² black porous non-woven geotextile landscape fabric over the back-filled topsoil and **UNDER-GROUND GUYED TREE DETAIL A** (clear or multi-stemmed trees) secure with pins. 5. Planting is to be carried out to the densities 1. Q31/515 150mm depth clean gravel or broken stone, with no fines, graded 40 to 20 mm specified, through cuts in landscape fabric. Provide 100mmØ perforated plastics drainage pipe laid around perimeter of pit one single cut 300mm per length per plant. All engineer's design detail & specification 3. Q31/515 Non-woven UV stable polypropylene fibre geotextile to be laid 300mm cuts to follow in one direction along length over aggregate before installing tree or backfill. 4. Q31/510 wherever the installed rootball will be within 3.0 m of an existing of landscape fabric (cross-cutting not accepted). 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 Once planted, back-fill with the remaining soil and with sides vertical. firm as before. 5. 3 no. pre-cast concrete 'dead-man' type kerbstones in base of planting pit to secure guying wires to. Top-dress the planting area with a Q37/430 75mm 6. Underground guying with min. 3 no. mat straps, 6mmØ galvanised mult--strand guying wires and dead-man kerbs to BS 4043. Use depth of medium-grade bark mulch, and maintain it Multi-purpose grade topsoil to BS:3882 with ameliorants and compost. until the spring following the first growing season. 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 Mulch to finish 25mm below adjacent surfacing. 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/m<sup>2</sup> UV-resistant black permeable weed-guard typ geotextile over topsoil layer and plant shrubs through it. Q31/385 75mm depth medium grade bark mulch or mulch cover as Ø100 1500 3 plants per m² or as otherwise specified

## **UNDER-GROUND GUYED TREE DETAIL - PLAN**

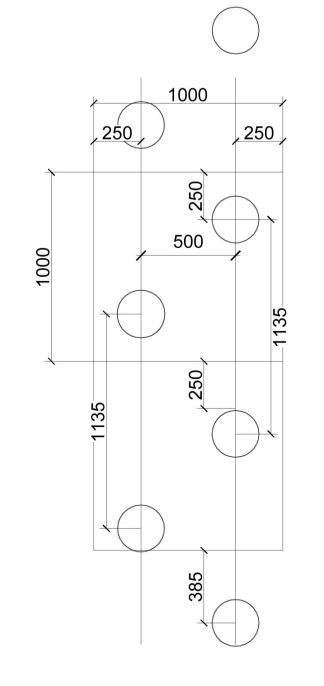
Planting Density: 4 per m<sup>2</sup> All shrub planting to follow 1m grid in straight parallel staggered rows to specified centres as shown.



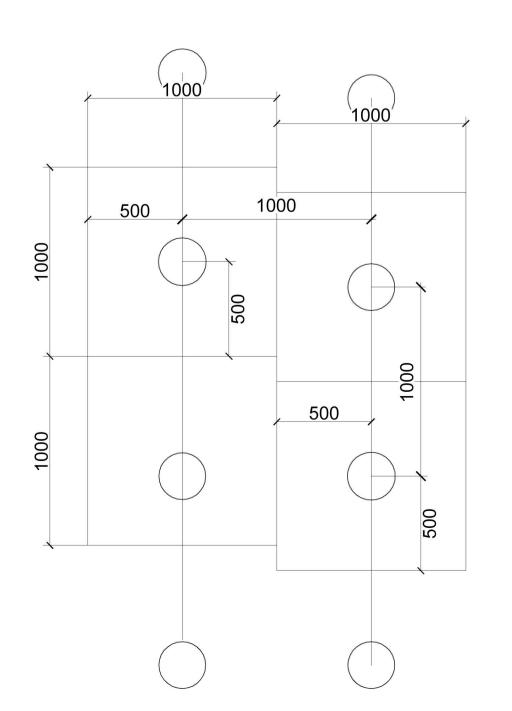
Planting Density: 3 per m<sup>2</sup> All shrub planting to follow 1m grid in straight parallel staggered rows to specified centres as shown.



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

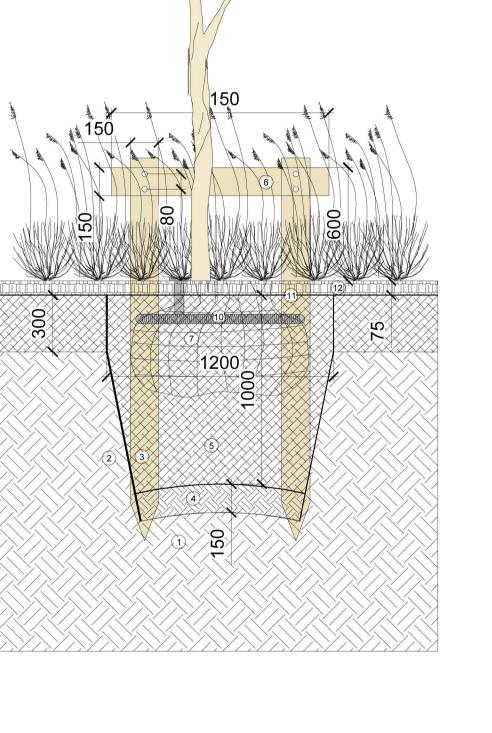


Planting Density: 1 per m<sup>2</sup> All shrub planting to follow 1m grid in straight parallel staggered rows to specified centres as shown.





- Q31/505 The tree pit should be excavated to allow adequate clearance between the root ends (when fully spread) and the side
- 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.
- 3. Fork the bottom and sides of the pit to break up the sub-soil. Q31/586 Back-fill with 1200mm<sup>3</sup> 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.
- 5. 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.
- 8. 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.



## STEPHEN DIAMOND ASSOCIATES CHARTERED LANDSCAPE ARCHITECTS

68 Pearse Street Dublin 2 tel: 01 6775670 email: mail@sdacla.ie fax: 01 6775669 HSE - National Maternity Hospital Project The National Maternity Hospital at St. Job no.: 14-391 Vincent's University Hospital <sup>Scale</sup> 1:20@A1 Planting Details Date Issued 2017-02-14 14-391-PD-08 Checked SD Purpose planning