

OUTLINE PLANTING SPECIFICATION NOTES

STANDARDS

All plants shall conform to BS 5654:2014, the new British Standard 'Trees: From Nursery to Independence in the Landscape - Recommendations'. BS 3396 Part 1: 1992 (Trees & Shrubs), BS 3399 Part 4: 1994 (Forest Trees), in conjunction with the Code of Practice for Plant Handling issued by the Joint Lanson Committee of Plant Suppliers (1980). Enough plants shall be labelled so that when planted, one tree/shrub of each species in each border can be identified by label. Bioscience of plant sourcing is vital. Contractors must demonstrate, with undisputed proof, that plants have certified 'Plant Passport' including propagation and, ideally, at least 1 growing season in an approved UK nursery quarantine system, if imported from overseas.

IMPLEMENTATION PROGRAMME
Soil landscaping to be completed and implemented during the first planting season. (Mid-November to Mid-March), after the substantial completion of the paving works. Planting shall not be carried out when the ground is frozen or waterlogged, or during periods of persistent wind.

TOPSOIL PREPARATION

50mm to 100mm depth of BS1 PAS 100/2011 compost/biofertiliser, or similar approved green waste/plant free compost shall be added prior to final cultivation in areas of new planting. All new planting areas shall be 450mm deep and decompacted and cultivated to the full depth of 250mm.

Tree pits with in soft landscape areas shall be excavated to create a square pit, a minimum size of 800 x 800 x 500mm deep, (or no deeper than the existing rootball or container depth) or 1/3 larger than the rootball/container width. Settlement of the rootball should occur after planting. The excavated soil shall be placed to one side, separating topsoil and subsoil as far as is practical and backfilled in the reverse order to retain natural soil profiles. All tree pits shall be thoroughly decompacted to sides and broken across the base prior to back-filling to eliminate glazed or smeared conditions making allowance for soil settlement after planting. Soil to be stacked around the roots in 150mm deep layers and tamped in by foot during backfilling. The tree pit should be saturated to field capacity immediately after planting to aid settlement.

ROOTS IN SUPPORTING STRUCTURAL CELLS

Refer to Detail 1 and consult with engineers to design paving construction over Silva Cells. Deeproot shall oversee construction to warrant their product.

WEED PREVENTION CLEARANCE

Where necessary, areas to be planted, lifted or seeded shall be cleared of any grass, weed growth or debris physically and/or chemically with herbicidal herbicide (Glyphosate) prior to cultivation operations. More than one application may be necessary to ensure eradication. All roots of perennial weeds shall be removed.

PROPOSED TREES - PRODUCTION AND PROCUREMENT

Trees that are non-compliant with the specification or with major damage, whether above or below ground, shall be rejected and replaced at the contractor's own expense, such that: All bud and graft unions shall be checked to ensure full compatibility. Between stock and soon and that there are no weak unions or disproportionate growth at the grafting/unioning point. Young trees will not be accepted if the bud union has been set below the soil surface. All young standard trees stock shall have a single, straight leader and a well-developed branching system and crown formation. A well-defined, straight central leader and stem at least 100mm in diameter shall be present. All trees shall have a proportionate, balanced habit/height ratio appropriate to the species, be self-supporting and able to stand upright without the use of any stakes, slates or other form of support immediately after planting. Poorly attached branches with included bark, and inward-growing branches, shall be removed or immediately pruned. Where branches cross or rub, the most significant branch shall be retained and any others removed. Co-dominant branches and stems shall be removed or subordinated.

No bare root trees are permitted, to ensure a healthy rootball is provided. All rootballed trees of 14-16cm girth must have been transplanted at least three times on the nursery and contain a fully fibrous root system with obvious evidence of root pruning or transplanting, whilst being proportionate sizes to the stem diameter. Containerised or container-grown trees shall be free from circling or girdled roots and the natural root flare shall be visible at all times. As the root systems of rootballed, containerised or container-grown trees are not visible until the time of planting, a sample of the actual root system shall be checked by the LA where practicable, by creating open a small percentage of rootballs or containers. All we used for rootballed stock not root-galvanized. Proof of Plant Passport or bioscience measures shall be provided to the Landscape Architect prior to shipping trees to site.

PROPOSED TREES - PRODUCTION, PROCUREMENT & DELIVERY

All root balled trees to be planted with their root systems exposed or vulnerable to drying out. Rootballed trees shall have been stored in an upright position, supported and irrigated during storage. Containerised or container-grown trees shall be fully irrigated before loading and despatch to site. All trees should be individually, clearly labelled, including the supplier's name, species, variety, cultivar and size. All trees shall be loaded and stacked in such a way as to minimize the possibility of breakage or crushing by the weight of the plants above or from the security ropes. On open lorries, the trees should be completely covered with secure, opaque sheeting. In closed lorries or containers, provision shall be made to ensure that the trees remain cool and moist at all times during transit. Rootballed or containerised trees shall be lowered intact from the lorry by hand or machinery and not dropped onto the ground causing damage to the root system.

PROPOSED TREES - PLANTING

Trees shall be supplied to the sizes and stock shown on the plant schedule and planted in the locations shown. The root flare of the newly planted tree shall be clearly visible at the soil surface and not be buried by excess soil or mulch. Once a rootballed tree has been planted in the planting pit, the soil, water and the tree edges shall be conserved, removing all wheel tracks and ensuring the soil is compacted to a depth of 100mm. The planting area shall be watered to field capacity, resulting in water seeping around the tree to be controlled by shading, avoiding surface spread into tree pits and planting areas.

All trees shall be supported with an underground, dead man guying system or similar approved to avoid windlines and breakage of links against stakes.

Trees within structural Silva Cells shall have a dead man guying system.

All standard trees shall have a 2.5m long x minimum width of 35mm diameter, black perforated irrigation pipe such as WR3, Mora Rainfall Irrigation Unit, or similar approved, wrapped about the rootball, with 75mm left above ground level within mulch, to permit irrigation during dry weather. Each pipe shall have a lockable cap to the end to prevent ingress of mulch, vermin or rubbish. Supplied by Green-Tech, Tel: 01232 332100.

PROPOSED ORNAMENTAL SHRUB AND HERBAGEROW AREAS

Plants shall be supplied to the sizes and stock shown on the plant schedule, unless specified, bushy and have a minimum of three to five branched branches from the base of the plant with full root development in the container. Deeply pointed plants failing to provide full containerised root development alongside pot bound plants will be rejected and replaced at the contractor's own expense.

Herbagerow plants shall be planted in a single row at 3m, offset from kerb edges by 0.5m, as indicated by the schedules.

BARK MULCH
Prior to mulching individual trees and shrubs shall receive a layer of slow release fertiliser and be watered to field capacity. Mulch shall be spread across all borders to a depth of 50mm to allow for settlement. The mulch and the bases of the stems should be maintained free from mulch. Care must be taken not to bury ground cover plants with the mulch.

Mulch shall be pest, disease and weed free with no Methyl Bromide contamination or additives. Certification and typical mulch sample to be provided upon request. Subcontractor mulch will be rejected and replaced at the contractor's own expense. Typical bark mulch products accepted for general landscape purposes shall be 'Ornamental Bark Mulch', supplied by Maccorne, Tel: 01666 522 711 or similar approved.

PAVINGSURFACES

All surface details by engineer.

MAINTENANCE / MAKING GOOD DEFECTS

The Client's Management Company shall be responsible for maintenance of trees, hedges and shrubs planted in perpetuity. The following shall be undertaken each year until all planting is established and mature.

Plant failures: All plants that die shall be replaced by the Client during the next planting season.

Weed control: Areas subject to a long-term planting shall be kept free from weeds for the 5 year maintenance period. Weeds shall be controlled by hand weeding or spraying with herbicide, to include the maintenance of herbicide-free areas and in accordance with the Pesticides Act (1986), taking care to avoid drift onto surrounding vegetation. Hedges shall be kept free of weeds throughout their full width and length. All arsons shall be removed.

Underground Gaps: All stakes and ties should be checked regularly to ensure that tree root systems remain stable, firm and upright in the ground and that ties are still effective and not causing any damage to the tree.

Plant Protection & Soil Compaction: All guards and other plant protection measures should be checked during each site visit. The soil around newly planted trees should be regularly inspected for soil capping or compaction. Remedial action should be taken as necessary.

Pests & Disease: All plants should be checked on a regular basis for pests and diseases. Remedial action should be taken promptly or discovery, where necessary.

Pruning - General: Any damaged shoots or branches shall be pruned of plants using appropriate secateurs/hedges. Shrubs shall be pruned as required to prevent overgrowth and obstruction to lights of way and to maintain shape and condition. All pruning undertaken in accordance with good horticultural practices. All arising shall be removed.

Tree Pruning: For mature pruning should be carried out in accordance with BS 3998 as required throughout the early years after planting. Pruning shall be carried out using appropriate tools and techniques. Pruning shall be carried out in accordance with the tree's natural structure, avoiding a permanent structural system of branches. Spread of the species and appropriate to the site circumstances.

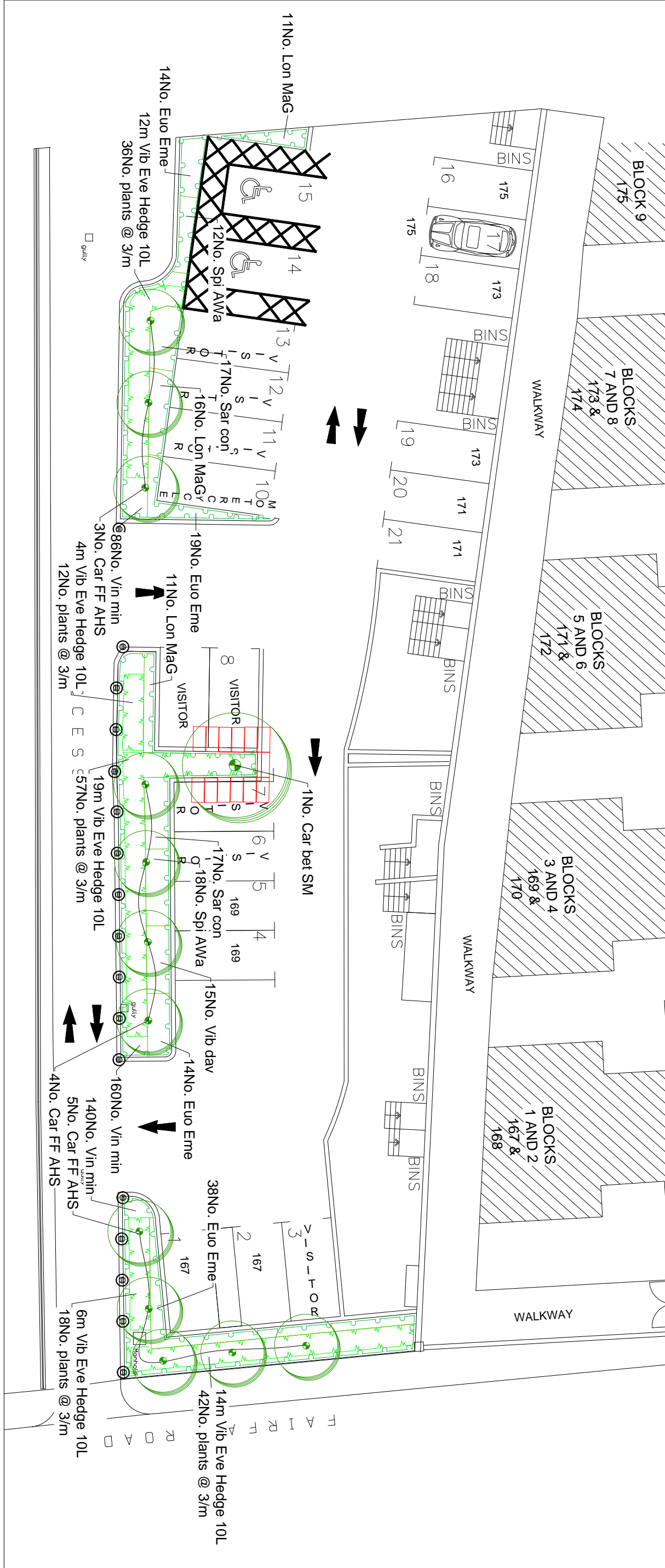
New Hedges: New hedges shall be trimmed to top and sides once per year in late February, to maintain compact growth from the base. Ultimately, new hedges shall be maintained at 1.5m high x 1.5m wide at maturity. Trees planted within hedges shall be permitted to grow on to reach maturity beyond the height of the hedge.

Litter: All areas shall be maintained free of litter at all times. Litter collection shall include non-degradable materials and degradable objects over 100mm length, found along footpaths and public open space areas, undertaken once monthly. All arings shall be removed from site.

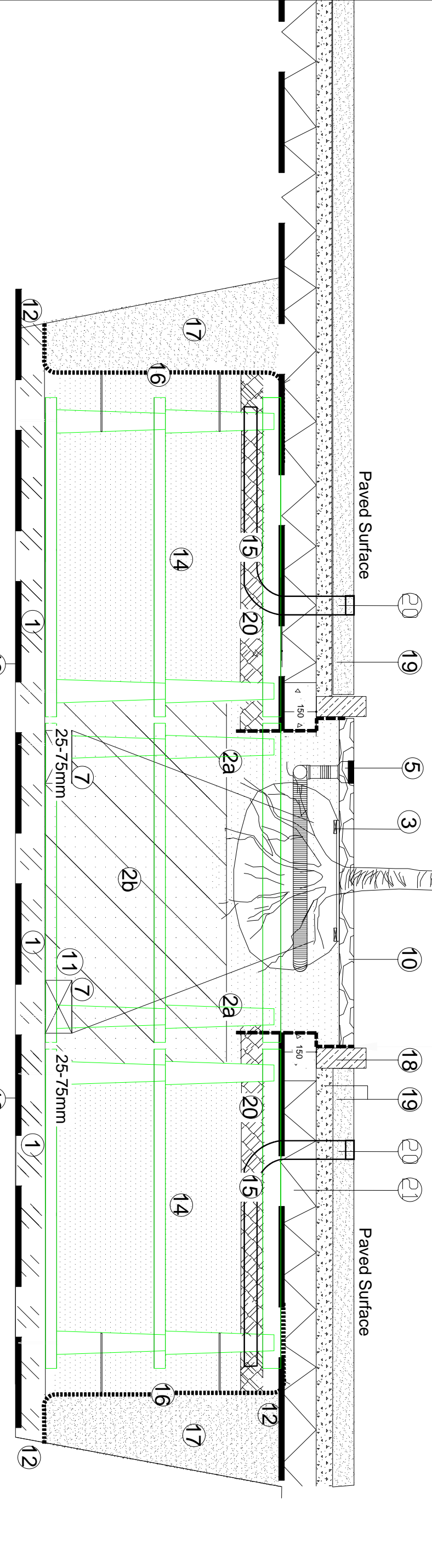
Parking/Surfacing: Hard surfaced areas site shall be kept free of weeds at all times. Autumn leaf clearance shall be undertaken as necessary in October/November.

IRRIGATION

The timing and frequency of irrigation should take into account the prevailing weather conditions, soil moisture release characteristics and the response of the tree species to water deficits, or periods of prolonged soil saturation. The frequency of irrigation shall be determined by the soil moisture content and the response of the tree species to water deficits and the risk of establishment. Monitoring is recommended; values indicate that it would be appropriate to do so. In the first 2 growing seasons during summer months, trees may require the following total volumes of water per month, applied across 2 to 3 visits during the month: trees 8-10cm girth (up to 3m high) @ 45L per month, 10-12cm girth (up to 3.5m high) @ 75L per month, 12-14cm girth (up to 4.2m high) @ 115L per month, 14-16cm girth (up to 4.8m high) @ 150L per month and 16-18cm girth (up to 5.4m high) @ 190L per month.



DETAIL 1: TREE PLANTING DETAIL AT CAR PARK ENTRANCE, NTS



TREE PIT IN PAVING SPECIFICATION NOTES

1. 100mm depth of aggregate sub-base, compacted to 95% or by 3 passes with plate compaction, which ever is greater, to provide an even and level base for Silva Cells to be stacked on.
2. TREE PLANTING AREA BACKFILLED WITH APPROVED TOPSOIL WITH 10% CLAY FINES AROUND ROOTBALL. TOPSOIL TO BE BACKFILLED IN LAYERS NOT LOWER LEVELS BELOW ROOTBALL TO BE CLEAN SUBSOIL WITH NO DEBRIS CONSOLIDATED BY 85% IN LAYERS OF 150MM TO AVOID ROOBBALL SINKING BELOW TREE COLLAR.
3. ROOTBALL TO BE SECURED WITH TIMBER FRAME OF 40x 75 x 80mm ROOSTERS. REAR BOARDING ATTACHED TO THE END MANSON WITH MILD STEEL OR SIMILAR APPROVED METHOD.
4. PROPOSED TREE POSITIONED CENTRALLY TO PIT DETAIL. REFER TO PLANT SCHEDULE FOR TREE SPECIFICATION.
5. GREENLEDIE URBAN ROOT BARR CONIC TREE IRRIGATION SYSTEM TO BE WRAPPED ABOUT ROOTBALL WITH CAP SECURED FLUSH WITH SURFACE AROUND PIT. (TEL: 01242 717791).
6. NA.
7. DEAD MAN GUY TO BE 2x2 CONCRETE KERB SECTIONS OR SIMILAR AND BE SECURED WITH TIMBER FRAME OF 40x 75 x 80mm ROOSTERS ON SIMILAR AND TO BE SECURED WITH TURNBUCKLES AT TOP. ALTERNATIVE USE OF 10mm STEEL STRAP AS PLANTS AND SECURE AND SUBSAFE.
8. NA.
9. NA.
10. 65MM DEPTH BARK MULCH ACROSS PLANTING AREA SURFACE. AFTER SETTLEMENT.
11. SECTIONAL DRAINAGE GUTS BE COMPARED OF 40mm DIA. PVC UPE TO BE DRILLED THROUGH THE PAVING SURFACE AND DRAINAGE RUN ONLY TO BE UTILISED WHERE THE SUB-GRADE CONDITIONS ARE NON-FAVORABLE SUCH AS IN COMPACTED CLAY AND OTHERWISE WATER IN THE PIT WILL SPONTANEOUSLY REFER TO ENGINEERS' DETAILS.
12. EXISTING GROUND BEYOND PLANTING AREA.
13. GEOTECHNICAL TERMAK 100V OR SIMILAR APPROVED WITH SUBGRADE BELOW.
14. REPORT SECTION 32.94.96 PLANTING SOIL, OR SILVA CELLS SILVA CELL CENTRES 2000 x 600 x 400mm TO BE FILLED WITH APPROVED TOPSOIL, INSTALLED IN DETAIL, ON DRAINAGE UNIT, WITH 25mm TO 75mm GAP BETWEEN CELL STAKES. 1 CELL DECK TO FRAME (FOR EACH) AFTER SNAPPING INTO PLACE ANCHOR BRASS FOR SPIRE POLE. 85 PAS 100/2011 COMPOST BIOFERTILISER BETWEEN TOP OF SILVA CELL DECK AND TOPSOIL, WITH 25mm AIR GAP BELOW TOP OF DECK SPACE TO ALSO HOUSE AIR DISTRIBUTION PIPE WITHIN SURFACE FLEXIBLE GEORGRID TO ALLOW TREE ROOTS TO PENETRATE BEYOND PLANTING AREA. TYPE V 150mm MINIMUM BELOW BACKFILL AT BASE. OVERLAP 300mm MINIMUM AT TOP OF CELLS ATTACH FROM X 300mm AP TIES, FROM GEORGRID TO SILVA CELLS IN EACH LEVEL AND IN CELL DECK.
15. NA.
16. NA.
17. BACKFILL 20mm SELF-CONSOLIDATING MATERIAL TO FULL DEPTH OF TREE PLANTING AREA, TO ENGINEERS' DETAIL.
18. ENGINEER OR FCC CONCRETE KERBS EDGE OF PARKING BAYS, AS PER ENGINEER'S DETAIL. SET TO OVER A CONCRETE TYPED FOUNDATION. TO BE FOUNDATION AND DOING TO PROVIDE MAXIMUM SUPPORT.
19. CAR PARKING SURFACE AND VEHICLE ACCESS. LAND OVER 100mm DEPTH REINFORCED CONCRETE RAFT. ALL TO ENGINEERS' DETAIL.
20. AIR DISTRIBUTION PIPE, PLACING SEPARATED PIPE, 100mm DIA. WITH CAP TO END SET IN SURFACE PAVING AND LAND ACROSS TOP OF SILVA CELLS TO ACCOMMODATE THE PLANTING AREA TOPSOIL AND ROOT STRUCTURE. IN ACCORDANCE WITH DEERPOOL SPECIFICATIONS.
21. 100,200mm MINIMUM DEPTH OF NON-FROST SENSITIVE NOT TYPE 1 SILV BASE. WELL COMPACTED DESIGN IN ACCORDANCE WITH ENGINEERS' DETAILS.

KEY

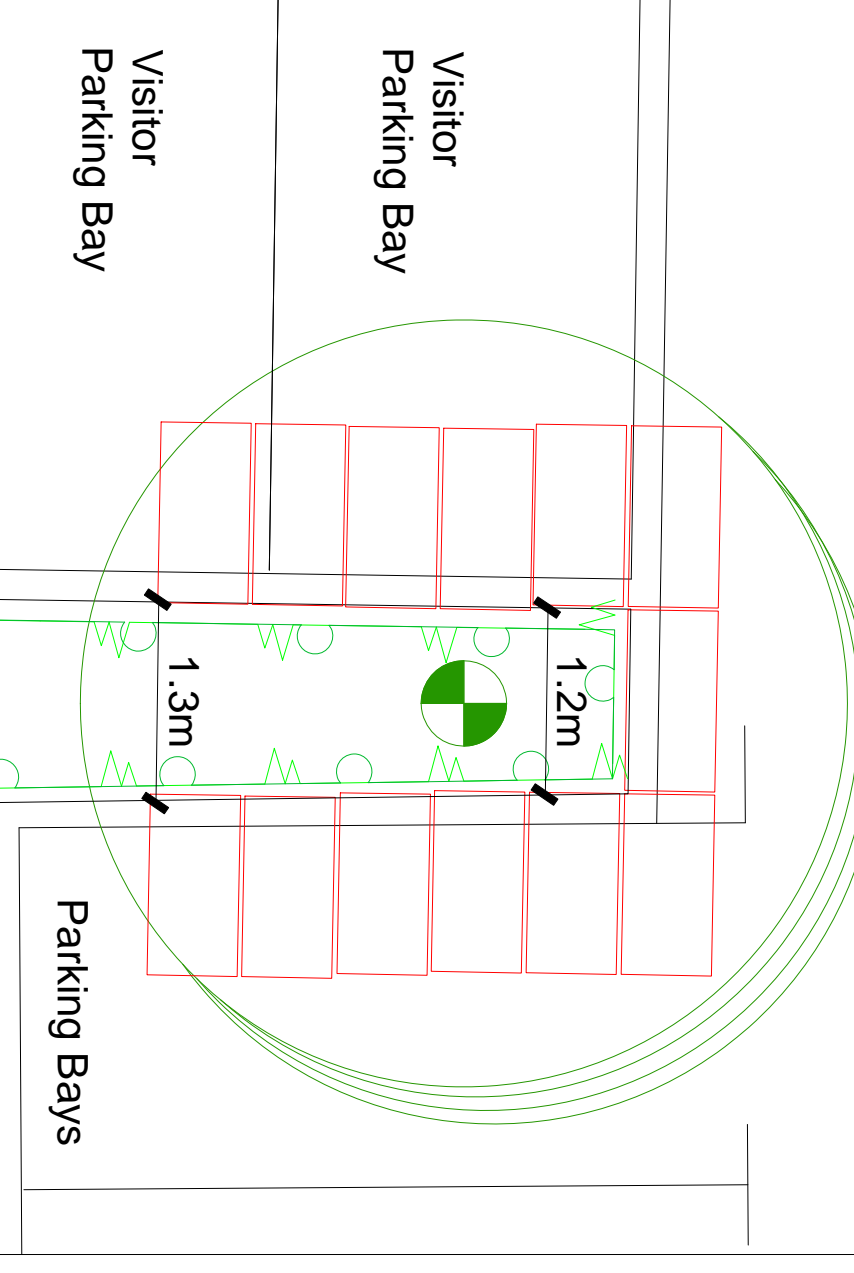
- Soft Works**
For further information refer to specification notes
- PROPOSED SEMI-MATURE TREES ALL TO HAVE UNDERGROUND, DEAD MAN GUYTS TO AVOID VANDALISM & SWAPPING AGAINST STAKES.
 - PROPOSED SILVA CELL BY DEERPOOL TO PROVIDE STRUCTURAL SUPPORT TO THE PAVEMENT SURFACE. REFER TO DETAIL 1 BY ELD AND DETAILS BY ENGINEERS.
 - PROPOSED EVERGREEN HEDGE PLANTING.
 - PROPOSED SHRUB PLANTING.

SCHEDULE OF QUANTITIES

SOFT LANDSCAPE TO GENERAL AREAS:

- 51m Planting-Hedges
- 105m2 Tree - SM
- 130m Tree - Silva Cells
- 26m0. Tree - Silva Cells

PLAN VIEW OF SILVA CELLS @ 1:50 SCALE



N.B. These landscape proposals have not been cross referenced against service and utility locations to identify any potential conflicts. Client/engineer to review and advise accordingly.

ALL DIMENSIONS TO BE CHECKED ON SITE TO BE READ WITH ALL CONTRACT DOCUMENTATION AND DISCREPANCIES TO BE REPORTED TO THE CONTRACT ADMINISTRATOR. DO NOT SCALE FROM THIS DRAWING.

Ewood Landscape Design 2015

Rev.	Date	Initials	Details
C.	02-02-16	L.W.	Planting and plant schedule amended to accord with new client layout rev. C, received 25-01-16
B.	06-01-16	R.E.	Tree stake type amended to underground guys.
A.	04-01-16	R.E.	Minor typoes corrected.

E.L.D.
ELWOOD LANDSCAPE DESIGN
CHARTERED LANDSCAPE ARCHITECTS

Suffolk Office:
The Barn, Cherry Tree Farm, Mendisham
11, Cherry Tree Farm, Mendisham, CB7 2JQ
Tel: 01449 768828 E: team@e-ld.co.uk

Cambridgeshire Office:
The Nursery, Market Street, Fordingham
11, The Nursery, Market Street, Fordingham
Tel: 01538 271069 E: team@e-ld.co.uk

CLIENT: FAIRFAX MANSIONS LLP

PROJECT: FAIRFAX MANSIONS CARPARK, FINCHLEY ROAD, LONDON.

DWG TITLE: DETAILED LANDSCAPE PROPOSALS.

SCALE: 1:200 @ A1

DATE: 8TH DECEMBER 2015.

DRAWN BY: L.W.

CHECKED BY: R.E.

DRAWING NO.: SIGN 2537 - 001.

REV.: C.