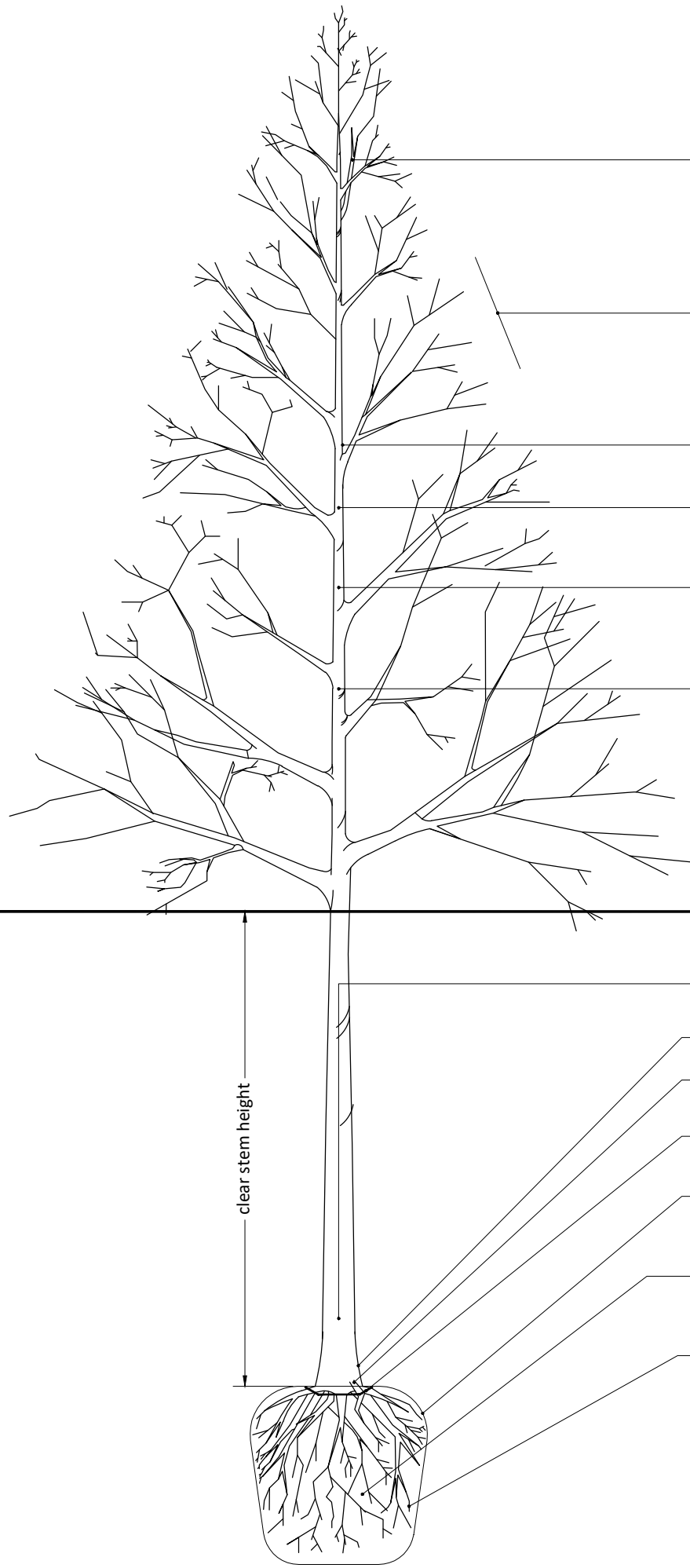


1. TREE STOCK, GENERALLY
Scale 1:25

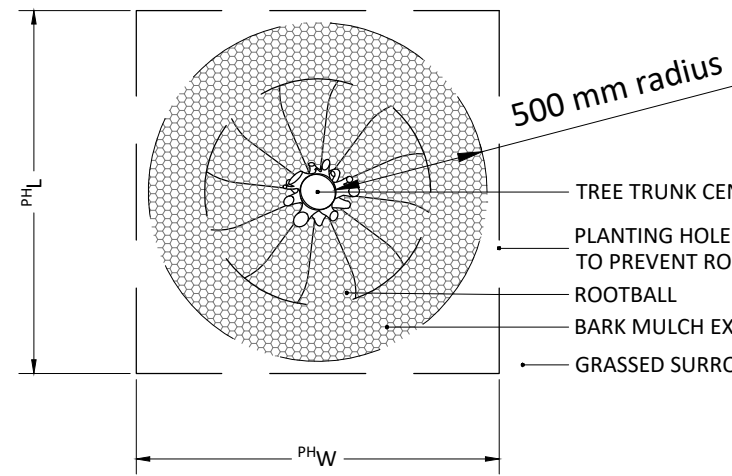


- CO-DOMINANT / CROSSING / INWARD GROWING / BROKEN OR DEAD / BARK WOUNDS / OTHERWISE HAZARDOUS, BRANCHES & STEMS: REMOVE OR SUBORDINATE IN ACCORDANCE WITH BS 3998
- CROWN FORMATION: WELL BALANCED WITH STRAIGHT CENTRAL LEADER & LATERALS SUBORDINATED TO THAT LEADER
- TREE TRUNK & BRANCH STRUCTURE: SELF-SUPPORTING, NO REQUIREMENT FOR CANES, STAKE OR OTHER METHOD OF SUPPORT
- HEIGHT/STEM GIRTH RATIO: PROPORTIONATE, BALANCED & APPROPRIATE TO SPECIES
- STEM TAPER: CLEARLY DEFINED, EVIDENT FROM CROWN THROUGH TO ROOT FLARE, APPROPRIATE TO SPECIES
- LEADER*: STRAIGHT, WHETHER EXCURRENT OR DECURRENT IN NATURAL HABIT WITH EVEN, WELL-BALANCED BRANCHING SYSTEM. DECURRENT TREES SHOULD RETAIN LEADER UP TO AT LEAST TWO-THIRDS FULL HEIGHT

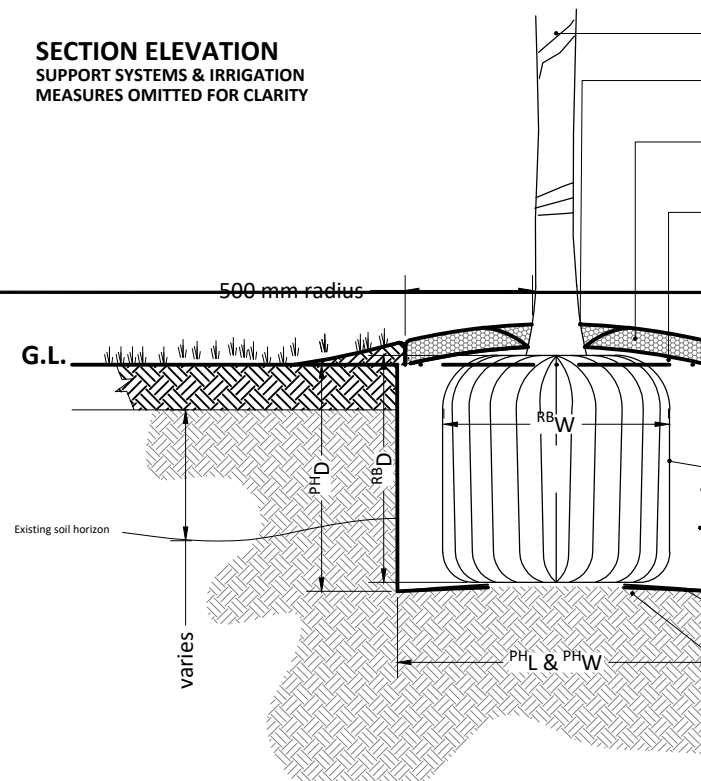
- BUD & GRAFT UNIONS: NO WEAK UNIONS OR DISPROPORTIONATE GROWTH. REJECT SPECIMENS WITH BUD UNION SET BELOW SURFACE
- NATURAL ROOT FLARE: VISIBLE AT ALL TIMES
- ADVENTITIOUS FIBROUS ROOT GROWTH ABOVE ROOT FLARE: REMOVE / PRUNE OUT
- BURLAP / WIRE CAGE: REMOVE / BREAK OPEN IN TREE PIT TO PREVENT GIRDLING
- ROOTBALL: PROPORTIONAL SIZE TO STEM DIAMETER, TRANSPLANTED AT LEAST THREE TIMES ON NURSERY
- ROOT SYSTEMS: WELL BALANCED, FIBROUS RADIAL ROOT SYSTEM WITH AT LEAST FOUR OBVIOUS & SUBSTANTIAL LATERAL ROOTS SHOWING OBVIOUS EVIDENCE OF ROOT PRUNING OR TRANSPLANTING, FREE FROM GIRDLING ROOTS
- EVIDENCE OF ROOT GIRDLING: PRUNE OUT / REMOVE / REJECT IF SERIOUS
- N.B.** Tree shown for illustrative purposes only.
* Does not apply to weeping trees, trees produced as multi-stemmed specimens or other trees where a straight leader is not a natural characteristic.
- decurrent tree = tree exhibiting natural growth habit characterised by strong lateral or branch dominance that eventually produces a rounded or spreading tree crown
 - excurrent tree = tree exhibiting natural growth habit characterised by strong apical dominance that eventually produces an upright crown form dominated by one or a few central leading shoots

2. GENERAL TREE PLANTING PRINCIPLES IN OPEN GROUND
Scale 1:25

TREE PIT: PLAN VIEW
SUPPORT SYSTEMS & IRRIGATION MEASURES OMITTED FOR CLARITY



SECTION ELEVATION
SUPPORT SYSTEMS & IRRIGATION MEASURES OMITTED FOR CLARITY



N.B. tree pit dimensions are a function of rootball size. Rootball dimensions are dependant on size of tree specified. Refer to Table 1.

- N.B.**
- BS 8545: 2014 states that, "Sensible tree pit design begins with the intention of doing as little as possible other than digging a pit, planting the tree, and using the existing soil, separated as subsoil and topsoil, as backfill. Each additional level of complexity added to the basic pit design can be related to the amelioration of a particular constraint".
 - Tree shown planted in open ground in optimal conditions with minimal site constraints.
 - Tree support systems are omitted for clarity.
 - Tree pit dimensions are a function of rootball size. Rootball dimensions are dependant on size of tree specified. Refer to table.

Table 1: TREE PIT DIMENSIONS

FORM	GIRTH	DIMENSIONS		PLANTING HOLE DIMS		
		(^m Ød)	(^m Dp)	(^m L)	(^m W)	(^m D)
LS	6-8	400	300	700	700	300
S	8-10	400	300	700	700	300
Sse	10-12	400	400	700	700	400
H	12-14	500	400	800	800	400
EH	14-16	600	500	900	900	500
	16-18	600	500	900	900	500
	18-20	600	500	900	900	500
SM	20-25	750	750	1050	1050	750
	30-35	1000	1000	1300	1300	1000

where:
^mD = Rootball diameter, ^mDp = Rootball depth,
^mL = Planting hole length, ^mW = Planting hole width, ^mD = Planting hole depth
LS = Light Standard, S = Standard, Sse = Selected Standard, H = Heavy Standard, EH = Extra Heavy Standard, SM = Semi Mature
N.B. Stated tree planting hole dimensions to accommodate the rootball are a minimum. Rootball dimensions can, & do, vary, some variance is to be expected naturally between species, tree stock, suppliers and seasons. In the event that the rootball exceeds the stated dimensions, the contractor shall seek advice from the Landscape Architect before commencing further. Thereafter, the Landscape Contractor shall measure the hole (in Open Ground) to the advice given in BS 8545: 2014 with the exception of tree pit dimensions which shall be varied to achieve a minimum dimension of 150mm greater** than the rootball. Tree planting hole depth shall generally be no greater than the existing rootball or container depth. The Landscape Contractor shall take care not to damage any underground utilities &/or services.
*where not specified is taken to be rootball size.
**Section 10.5.10 of BS 8545:2014 states that, "Tree pits should have a diameter at least 75mm greater than that of the root system". However, this does not allow adequate space for firming in around the rootball by footfall.

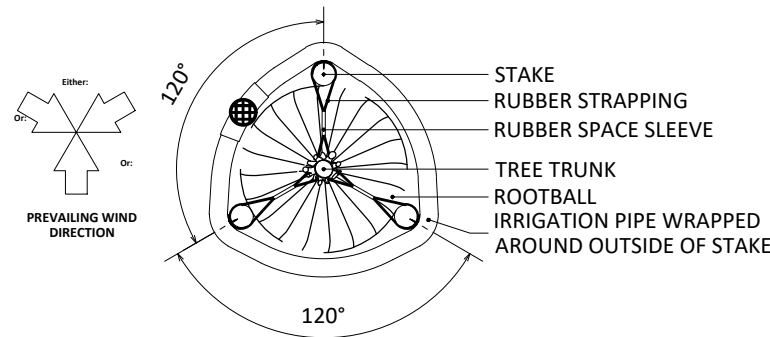
- TREE PLACEMENT: PLANTING HOLE CENTRE
- ROOTCOLLAR FLARE: SET JUST PROUD OF G.L.
- BARK MULCH: AMENITY, 75mm DEEP, GRADE BACK TO EXPOSE ROOT FLARE
- BACKFILL LEVEL: ABOVE G.L. TO ALLOW FOR SETTLEMENT & TO PREVENT PONDING
- TOPSOIL SAUCER: CREATE FOR WATERING PURPOSES & TO RETAIN MULCH

- TOPSOIL TO BS 3882
- PLANTING HOLE SIDES: RIP / FORK THOROUGHLY TO AID ROOT PENETRATION & DRAINAGE.
- BURLAP / WIRE CAGE / CONTAINER: REMOVE
- BACKFILL MATERIAL: SELECT 'AS DUG' MATERIAL TO MATCH ADJACENT SOIL HORIZONS WHERE SUITABLE FOR TREE GROWTH; TBC ONSITE BY CONTRACTOR. OTHERWISE: MULTI-PURPOSE TOPSOIL TO BS 3882.
- AMELIORANTS: TBC ONSITE, THEREIN: AS REQUIRED
- CIRCULAR TABLED SURFACE: ADJUST HEIGHT IF REQUIRED TO PREVENT OVERDEEP PLANTING & ALLOW FOR DEVELOPMENT OF EVENLY SPACED LATERAL ROOTS. IDEALLY, TREE PIT BASE SHOULD BE CONCOMITANT WITH ROOTBALL BASE.
- PLANTING HOLE BASE / FORMATION LEVEL: DISH TO PREVENT PONDING, RIPPING: NOT REQUIRED

Notes
Information regarding 'Tree Planting in Open Ground, Generally' on this sheet is derived from 'BS 8545: 2014 Tree Planting in Open Ground' published by the Landscape Institution.
While every attempt is made to address the most salient points raised within the BS, this list should not be considered exhaustive & is presented in summary format only. For further information, the reader is referred back to the relevant British Standard.

3. ABOVE GROUND (AG) TREE SUPPORT STRATEGY FOR TREES GENERALLY:
TRIPLE STAKE AND RUBBER STRAP - (Tst)

PLAN VIEW - AG



SECTION ELEVATION

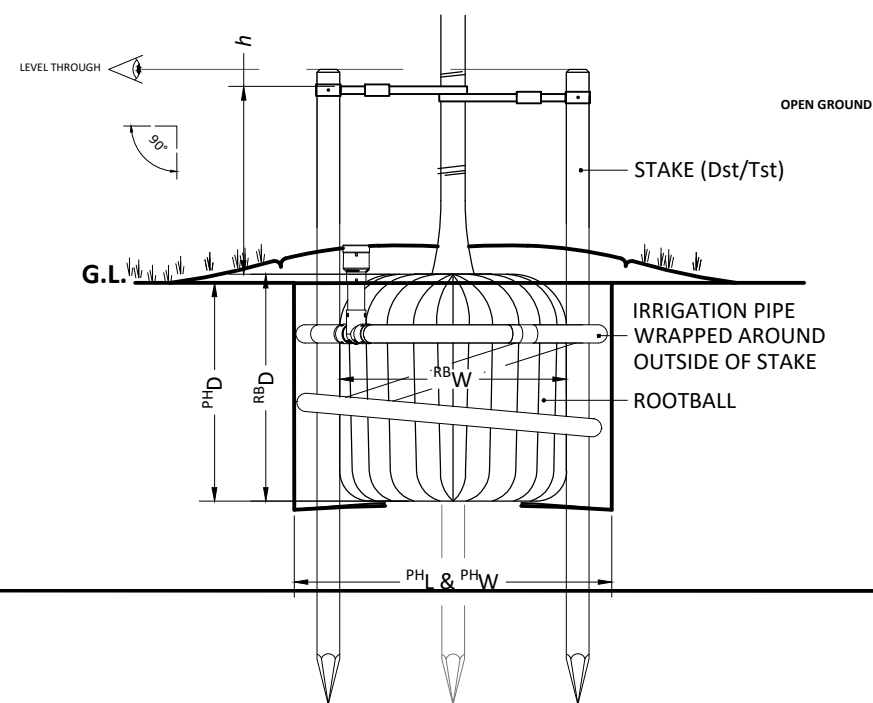


Table 1. TREE SUPPORT HEIGHTS

CLEAR STEM HEIGHT (mm)	SUPPORT HEIGHT (m)
1500	0.5
1750	0.6
2000	0.7
2250	0.8
2500	0.9
2750	1.0

N.B.
According to 'BS 4042: 2000 Recommendations for transplanting non-balled trees', (now withdrawn, but still current) tree support height is calculated as & where it is the clear stem height. The alternative to calculating tree support height is given within the current BS 8545: 2014. For these purposes, tree support height shall therefore be calculated as & rounded to the nearest 50mm. There is also little point in stating a 1st-30cm tree support with a 3m clear stem at 3m height as this prevents trunk sway. In such instances, the standard should state stem height and should be used to calculate the stem height, subject to local conditions. **A clear stem height of 1.75-2m, for trees stuck in the 1.5- & 1.8 M category has generally been found to be acceptable (and is therefore supplied as such) by nursery suppliers working to the National Tree Specification. For further information regarding an accepted tree stem height, refer to Landscape Planning Plan Schedule.

GENERAL TREE PIT PLANTING NOTES:

- SPECIFIED MATERIALS:** all to be installed in accordance with the manufacturer's recommendations and/or instruction.
- PLANTING GENERALLY:** Correct planting depth is critical for transplanting success, with over-deep planting identified as a common cause of failure. The Contractor shall therefore ensure that the natural root flare of the tree is clearly visible at proposed finished soiling surface. To ensure that correct final planting position / depth is achieved, the Contractor shall therefore take care to remove all:
 - soil placed above natural root flare during nursery packaging & production
 - rootballing, containerization, etc.
 - adventitious roots above the root flare,
 - wire cage & burlap where possible. Otherwise, peel back and remove once the tree is in the planting pit.
- BACKFILL MATERIAL:** Open ground & Verges: select 'as dug' material to be reused taking care to match adjacent soil horizons (where suitability assured for tree growth); TBC onsite by Contractor. All 'as dug' material to conform to BS 3882:2015 General Purpose Topsoil). Remove all deleterious material arising (weeds, broken brick & large stones, etc). Backfill & lift in layers no greater than 150-230mm deep. Compact to between 1.5 - 2.0 mega pascals: tread down using footfall, paying particular attention to the planting hole edges and rootball extents to eliminate voids. Avoid over compaction.
- BACKFILL SOIL AMELIORANTS:** the Contractor shall satisfy himself of the general suitability of the topsoil supplied for long term tree growth. Reason: to ensure the long term longevity of the tree supplied. Thereafter: to suit site conditions. Typically, this may comprise 0.5kg of broadleaf p4 or similar (pre-hydrated with water) thoroughly mixed with the topsoil until the medium is homogeneous.
- ARISINGS:** all deleterious material arising, shall be removed offsite to a licensed tip by the Contractor.
- TREE SUPPORT SYSTEMS:** Unless otherwise stated, all trees shall be supported as identified on the Softworks drawings which use both Above Ground (AG) Staking & Underground Guyed (UG) method of tree support.
 - Tree support stakes along transport conduits are to be orientated in accordance w/ Detail 3 opposite.
 - Tree support stakes to butt up against the rootball to help stabilise it.
 - Tree support height shall be as identified on Detail 3 i.e. generally no greater than 650mm high. Reason: to support basal thickening.
 - Stakes to be removed to a minimum 150mm below ground level with no sharp edges as soon as the developing root system is self-supporting & root firmness is proven.
 - Irrigation pipes to be installed around the AG tree support system & on top of the UG tree support system.
- ROOT PROTECTION MEASURES:** supply & install permeable rootbarriers (Green-Tech 325, or equal & approved) to a min. depth of 600mm below ground. Installation: as per manufacturer's instruction. Finished level: top of barrier to be 10mm above G.L. Zone of Deployment: protection of hard surfacing / services lying within a min. 5m radius of the proposed tree and or as dictated on plan.
- IRRIGATION:** Open ground & Verges: Create topsoil chaucer as Detail 2. Water at frequency necessary to ensure establishment & survival.
- DRAINAGE:** the contractor shall satisfy himself that the tree pit is free draining. The contractor shall notify the Contract Administrator of any problem areas and await further instruction before proceeding further. Reason: to ensure the longevity & viability of the tree supplied. TBC onsite.
- BARK MULCH:** Amenity, 8-40mm particle size, mid dark brown, Rolawn (or equal & approved). Coverage: 75mm deep, 1m Ø around base of tree.

Drawing Revision

Rev.	Date	Description	Drawn	Checked
P1	27/06/2024	First issued to client team.	AB / AC	AC

Status

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Client
SOVEREIGN NETWORK GROUP

Project
KINGFISHER GROVE, THREE MILE CROSS

Drawing Title
TYPICAL TREE PLANTING DETAIL

Scale 1:25	Sheet Size A1	Date Plotted 28/06/2024	
Client Ref. -	Drawing Ref. 3249-5-2	Drawing No. DR-0100	Version S4-P1

