

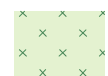





Softworks Key

-  **Proposed heavy standard tree (HS)** with irrigation system, double stake and tie to detail.
-  **Proposed extra heavy standard tree (EHS)** with irrigation system, double stake and tie to detail
-  **Seeded Biodiverse Amenity Grass**
Mix of amenity grass with low growing wildflowers to improve diversity of sward while also supporting recreational use
-  **Native Hedge**
with 75mm depth bark mulch to specification. Refer to plan for application of biodegradable weed matting to base and rabbit guards.

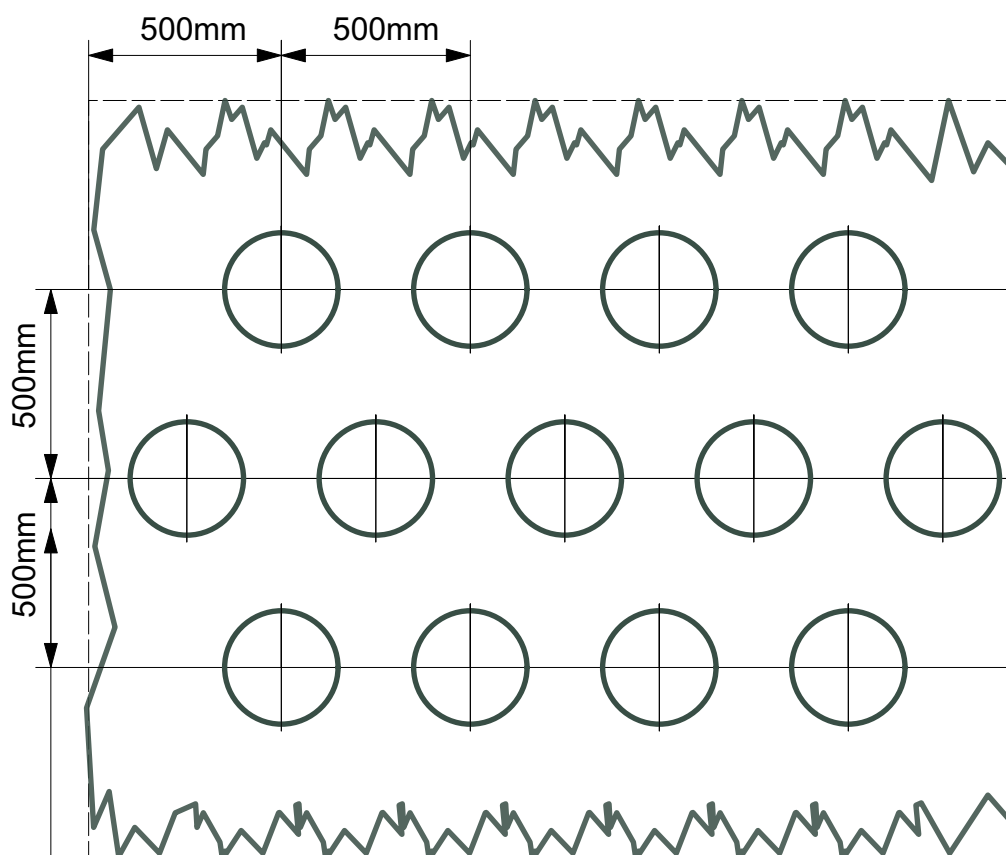
Outline Specification Notes

1. **Setting out** -
Check that all setting out conforms to the plan before cultivation and planting works are carried out. With narrow beds between walls/ fences and path edgings, ensure that the bed has space free from concrete footings before planting. If the bed is sealed with concrete, then the landscape contractor shall contact the site manager or landscape architect to determine the correct course of action. The arrangement of all beds will be checked by the inspecting landscape architect and where it is not as drawn, the works will be rejected and the contractor shall re-cultivate them to the specified arrangement at the contractor's expense.
2. **Notice** -
Give one week notice before:
Setting out; applying herbicide; applying fertilizer; delivery of topsoil/subsoil; delivery of plants/ trees; planting shrubs and trees into previously dug pits; watering; visiting site during maintenance period.
3. **Imported topsoils** -
Shall be of high quality, conforming to BS 3882:2015 for planting beds. Soil texture class: sandy loam, loam (maximum 20% clay). Do not firm, consolidate or compact topsoil when laying. Preserve a friable texture of separate visible crumbs wherever possible.
Topsoil shall be laid to the following minimum depths:
• 150mm below new grass areas;
• 400mm beneath new shrub areas.
4. **Subsoil surface preparation for ornamental planting beds** -
Excavate and/ or place fill to required profiles and levels. When ground conditions are sufficiently dry to allow breaking up of soils, loosen thoroughly to a depth of 450mm. Remove from site stones larger than 50mm and any arisings, contamination and debris. Do not use mechanical tools within 1000 mm of tree and plant stems.
5. **Soil amelioration** -
A 50mm layer of PAS100 certified should be worked into the top 100mm of topsoil within areas of ornamental planting beds.
6. **Ensure soil of all planting beds is graded to a level of at least 85mm below adjacent paved surfaces to ensure bark or wood chip mulches are retained.**
7. **Following planting supply and spread evenly Ornamental bark mulch** (available from Melcourt industries or similar and approved) to a depth of 75mm, over all planted areas. Finished mulch levels shall be no higher than 15mm below pavement or grass levels to avoid any spillage onto pavements or lawns.
8. **General plant and tree condition** -
All plants and trees should be in good condition; materially undamaged, sturdy, healthy and vigorous.
• **Appearance:** Of good shape and without elongated shoots. All foliage should be free of significant leaf lesions or abnormal discoloration. Tree crowns should be free of dieback. Foliar density and size should be typical of species and/or cultivar. The main trunk/stem of the tree should be free of abnormal/ excessive adventitious bud development. Main trunk/stem of tree should be free from any significant untypical flattening with no indication of stragulation from ties or labels. There should be no epicormic growth emerging from the rootstock of the tree.
• **Form:** All trees should have a clearly defined strong leader. All lateral branches should be subordinated to the leader and should never be more than 25% of the diameter of the main stem at the branch union. All formative pruning wounds should exhibit healthy and continuous bark occlusion with all pruning cuts made leaving the branch collar clearly visible and intact on the main stem. All branches which are poorly attached, are inward growing or cross and rub other branches should be removed and subordinated to the central stem.
• **Hardiness:** Grown in a suitable environment and hardened off.
• **Health:** Free from pests, diseases, discoloration, weeds and physiological disorders.
• **Budded or grafted plants:** Growth between stock and scion wood should be equitable with no disproportionate growth apparent between the two. At no time during the production process should the bud union have been below soil level.
• **Root system and condition:** Balanced with branch system.
9. **Containerised Plants and 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. Should be free of root circling or root girdling. Root flare should be clearly visible on the surface of the container.
• **Containers:** With holes adequate for drainage when placed on any substrate commonly used under irrigation systems.
10. **All plants shall be true to name, forms, dimensions, provenance and other criteria specified in the schedule of plants and adhere to the minimum number of breaks as determined in the plant schedule and/or HTA National Plant Specification. Any stock falling below this standard, in the sole opinion of the inspecting landscape architect, shall be lifted and replaced at the contractor's expense.**
11. **Substitutions** -
Submit alternatives where plants/ trees are unobtainable or known to be likely to be unobtainable at time of ordering. Approval must be obtained before making any substitutions.
12. **Biosecurity, labelling and documentation** -
• All plants must be grown in the United Kingdom for at least one growing season (or as required for biosecurity purposes) unless otherwise approved.
• All plants and trees, on delivery to site must be clearly labelled with their full botanical name; supplier's name; employer's name and project reference; country of origin and plant specification, in accordance with scheduled National Plant Specification categories.
• Plant passports must be supplied and retained as required by the APHA and for all plants on the EU Xylella fastidiosa host list.
• Source from known suppliers or visit suppliers to view their processes, procedures, bio-security arrangements and the plants they grow and provide evidence.
• Make sure that imported plants both originate from and are sourced from disease free areas.
13. **Time of year and conditions acceptable for planting** -
• All reasonable care should be taken to ensure that planting takes place in the best conditions to ensure that plants establish well and thrive.
• Soil should be moist, and not waterlogged or frozen.
• The best time to plant most containerised plants is in mid-autumn or early/mid spring although with careful watering and aftercare planting of containerised plants can take place year round in good conditions.
• Rootballed and bareroot plants can only be planted in the dormant season from late October to March (in good conditions). When the programme requires planting to be carried out outside of these times, all rootballed and bareroot plants must be substituted for equivalent container grown plants.
• Plant bulbs, corms and tubers in autumn (late september/ october) unless otherwise recommended by sound horticultural advice.
14. **Planting Pits** -
Trees and shrubs to be planted in pits 75 mm wider and deeper than root system. Break up the bottom of the pit to a depth of 150 mm. Incorporate soil conditioner to topsoil backfill. Apply 1.5g/ltr of growing media 'TerraCottem Arbor' and 'Rootgrow Mycorrhiza Professional' granules (50ml for STD trees, 100ml for HS and 120ml for EHS), available from Greentech or similar and approved to topsoil backfill. Where soils are compacted, tree pits should be decompact through excavating a wide, shallow tree pit a minimum 1.5m wide & 4m² in area by 300-400mm deep, and loosening/breaking the subsoil layer at the base of the pit for a further 300-450mm. Lightly firm soil around plants.
15. **Plant Handling, Transport & Storage** -
• **Protect from frost.**
• Handle plants with care. Protect from mechanical damage and do not subject to shock, e.g. by dropping from a vehicle.
• Minimise storage of plants on site by arranging delivery immediately prior to planting. If storage on site is required, ensure the area is fenced off and protected from all other operations and storage. Adequate space should be provided for canopies to be kept clear. Trees should be well supported in an upright position to ensure no rubbing is caused to stems or damage to the crown. Plants and Trees should be regularly watered and checked twice daily.
16. **Watering** -
For the first two years after planting proposed trees, mixed ornamental planting and amenity grass will require regular watering to ensure establishment.
• **Application:** Even and without damaging or displacing plants or soil.
• **Period & frequency:** Water during the growing season (mid March- early October) once per fortnight or more regularly as required by climatic conditions, such as hot, dry weather, wind and lack of rainfall. Water evergreens twice in winter.
• **Volume:** When watering shrubs, the top layer of soil should be fully saturated: apply 20L per m² per visit to hedgerows. During the first season after planting apply 45L/month to STD trees, 75L/month to SS, 115L/month, 150L/month to EHS trees. Additional volume is required for larger stock. During the growing seasons after planting apply 25L to each tree at each visit.
17. **Standards** -
Landscape works to be carried out in accordance with the relevant current British Standards (including current revisions of 4428, 3936 & 5837); National Planting Specifications Guidelines; Horticultural Trades Association Standards (including 'Handling and establishing landscape plants' part 1, 2 & 3); CPSE 'Plant Handling' Standards & COSHH Regulations.

Plant Mixes	Area	%	Qty	Latin Name	Common Name	Container (Litres)	Height (cm)	Rate/ Spacing
Hedge Mix - H007 Replacement	34.902 sq m							0
		5	8	Acer campestre	Field Maple	B	100-125	4.6 Plants/sq m
		20	32	Crataegus monogyna	Common Hawthorn	B	100-125	4.6 Plants/sq m
		10	16	Ilex aquifolium	Common Holly	15L	100-125	4.6 Plants/sq m
		40	64	Prunus spinosa	Blackthorn	B	100-125	4.6 Plants/sq m
		5	8	Rosa canina	Dog Rose	B	60-80	4.6 Plants/sq m
		5	8	Sambucus nigra	Common Elder	B	80-100	4.6 Plants/sq m
		10	16	Ulmus glabra	Wych Elm	B	125-150	4.6 Plants/sq m
		5	8	Viburnum opulus	Guelder Rose	B	100-125	4.6 Plants/sq m

Latin Name	Common Name	Qty	Container/ Root condition	Height (cm)	Girth (cm)	Specification
Trees						
Acer campestre	Field Maple	1	R8	350-425	12-14	3x HS; clear stem min. 200cm; 5 brks
Ilex 'Nellie R. Stevens'	Holly 'Nellie R Stevens'	3	50-70L	min 350	14-16	EHS; bushy head; clear stem 175-200cm

Triple Staggered Row Instant Native Hedge Planting Detail (500mm spacing)



Lay 2m wide biodegradable jute and hessian weed matting over cleared and prepared ground. Plant rootballed plants with the root collar at/just above ground level in trenches large enough to take full spread of roots. Apply mycorrhizal inoculant and soil conditioners (refer to outline specification notes). Firm the soil to eliminate air pockets. Fix Bio-Earth Biodegradable Plastic-Free Shrub Shelter Guards 600 x 150 x 150mm available from Green-tech or equal and approved. Water immediately after planting 50L per linear metre. Spread 75mm depth mulch (refer to outline specification notes).

Plant native hedge species in three rows, spaced 500mm apart either side of the centre line of the planting area. Stagger the rows with plants spaced at 500mm.

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Rev Date Comments Dr Ch



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Client
Hill Residential Ltd.

Site
Killingdown, Croxley Green

Drawing Title
Hedge replacement proposals (H007)

Scale	Status
1:200 @ A1	PLANNING
Project	Drawing Number
1945	GUA-DR-L-037
Drawn	Checked
JH	RM
Date	October 2022

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ECOLOGICAL MITIGATION

Refer to Ecological Impact Assessment by Mike Dean Ecology for ecological mitigation and compensation measures.

General Notes

Contractor must verify all dimensions, levels and existing service alignments on site before commencing any work or shop drawings. Any discrepancy concerning the drawings/quantities should be referred to the Landscape Architect immediately. Only figured dimensions to be taken from this drawing. Do not scale off this drawing. All landscape drawings to be read in conjunction with the landscape specification and all relevant engineer's and architect's drawings/specifications. This drawing is Copyright and must not be reproduced without consent of Guarda Ltd.

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