PROPOSED LANDSCAPING



SOFT LANDSCAPING LEGEND

- EXISTING TREES TO BE RETAINED
- EXISTING TREES TO BE REMOVED
- PROPOSED TREES
- EXISTING LANDSCAPING TO BE RETAINED
- PROPOSED HEDGES
- SWALE - TO INCLUDE HEDGE PLANTING

HARD LANDSCAPING LEGEND

- TARMAC; ROADS; PATH
- PERMEABLE BLOCK PAVING
- GABION BASKET RETAINING STRUCTURE/FEATURE

BOUNDARIES

- 1.2m HIGH BRICK WALL
- 1.8m HIGH BRICK WALL
- 1.2m HIGH METAL RAILINGS
- 1.8m HIGH CLOSE BOARDED TIMBER FENCE
- 1.2m HIGH CLOSE BOARDED TIMBER FENCE
- 440mm HIGH RETAINING WALL STRUCTURE - refer to boundary treatment sketch

NEW HEDGE

Species	Root	Size cm	Density
Fagus Sylvatica	BR	40-60	300mm Centres

NEW TREES

No.	Species	Type	Root	Girth cm
T1	*Acer Campestre 'Elegant'*	Standard	BR	8-10
T2	*Acer platanoides 'Princeton Gold'*	Standard	BR	8-10
T3	*Betula pendula' Jacquemonti'*	Standard	BR	8-10
T4	*Malus 'Red Sentinal'*	Standard	BR	8-10
T5	*Prunus avium 'Plena'*	Standard	BR	8-10
T6	*Pyrus calleryana 'Red spire'*	Standard	BR	8-10

All new trees to be standard size 8-10cm girth, or 30-35ft in overbrash unless specified.

PLANTING SPECIFICATION

All planting stock shall comply with the requirements of the British Standards 3936, and shall be obtained from a reputable nursery. Trees shall be of the species, size and girth as shown on the planting specification. The nursery plants are to be of local provenance and be well tailored. Trees and shrubs are to be lifted only between mid October and mid March and to be handled and transported in such a manner that no damage is caused to the branches, with roots kept moist and wrapped to protect them from adverse weather conditions.

Additional topsoil to be supplied where required and to comply with BS 3882: 1994 general grade topsoil, to be 150mm deep for grass areas, 300mm deep for hedges and shrubs, omit 750 deep x 1200 square for tree planting.

All planting operations shall be carried out in accordance with BS 4428. Planting pits are to be dug of a size in excess of the roots to allow the roots to be spread out in the pit. All plants are to be planted at the same depth as they were in the nursery. Any stakes used in the tree planting compost as well added manure is to be incorporated in the backfill pit of tree pits.

TREE PLANTING

Bare rooted stock only to be planted November - to - March. If planting is to be carried out at other times, container grown stock must be used. Trees should be planted in late spring or early summer, plants should be watered during dry spells for the first growing season. Avoid planting in frosty, cold or windy, hot conditions. Ground conditions should be suitable for planting when possible.

Trees on highway verge to be staked and guarded as shown below.

All other trees are to be staked with low stakes, 1500mm long, 750mm into the ground and the tree tied with a proprietary tree tie. Trees in grass areas to be protected by spiral guards. Hedges as specified or matched with a bark mulch, 1m diameter round the base of each standard tree is to be matched 75mm deep with medium grade bark mulch - where possible. **All highways trees to incorporate root directors to prevent lateral damage to the highway.**

HEDGE PLANTING

Backmarsh French to be 450mm wide and cultivated to 300mm deep. All partorious weeds are to be eradicated. Plants are to be planted in single rows at the density stated above. Hedging is either to be protected with a spiral guard as specified or matched with 75mm of bark mulch. All hedging stock to be protected with rabbit guards.

MANAGEMENT PLAN & MAINTENANCE SCHEDULE (SOFT LANDSCAPING)

Task	Time of Year	Frequency
TREES		
Inspection of mature trees	March-September	Annually
Selective felling of over mature/ declining species	October to February	As required
New planting to broaden/ supplement diversity of tree stock	October to March	Annually
Other works - removal of debris trapped in branches etc.	As necessary	Annually
Removal of self set seedlings	January	Annually
Selective thinning and pruning to be undertaken to ensure there is sufficient light through the tree canopy	As necessary	As required
HEDGES		
Trimming	April to October	5 times
Reshaping	Hard prune Oct-Feb	Annually
Chemical weed control along base	In winter & summer only when other methods have failed	Annually
Fertilising	Spring	Annually
New Planting	October-March	Annually
Litter/Debris	Throughout	Daily
Watering	As necessary, depending on weather	
AMENITY GRASS		
Eradicated areas: repair, rotovate to 150mm, 100mm topsoil if required, seed with BSH mix 19	May-September	As required
Grass cut, leave arisings, trim edges and collect trimmings	April-October	Every 2 weeks
Fertiliser-Spring	April	Annually
Fertiliser-Autumn	October	Annually
Scarification	March	Annually
Spiking	Autumn	Twice Annually
Reforming of edges to paths and planting	Autumn	Annually

EXISTING TREES

The trees to the north boundary should be protected to ensure no damage is caused; there are only 2no. trees to be removed at the site's road side.

REMOVAL

Any trees to be removed shall be removed in a safe and appropriate manner , adhering to current British Standards.
The contractor shall:

1) Locate the selected trees to be removed and verify by marking each tree
2) No tree shall be removed in a manner that compromises safety. Where work is being performed, all safety precautions shall be in place to protect the operators and the general public.
3) The Contractor shall plan and prepare for the use and positioning of equipment so as to accomplish the safe, effective and efficient removal of trees. Whenever any tree, or large limb of any tree, is to be removed and dropped to the ground, the area shall be roped off and shall ensure that an adequate area is cordoned off with rope or spot lights marked to prohibit the public or other unauthorized persons from entering.
4) The trees will be removed via the most safe and appropriate methods:
   - Clear your unrestricted fall: Clear falling shall consist of removal of the complete tree to ground level in one operation and in one piece. The Contractor shall be responsible for and fully responsible for any claim, which may arise as a result of the wrong tree being felled or re-positioned.
   - Sectional felling/restricted fall: Where needed, the Contractor shall fell the tree sectionally, lowering the sections to the ground by rope and tackle or crane as appropriate, either by the use of ropes involving sections which are no larger than can be controlled without causing damage, or by tree fall in situations which are acceptable.
5) The trees will be removed via the most safe and appropriate methods:
   - Stump removal via root grubbing: Grubbing shall consist of the complete removal of stumps and roots by the use of a suitable machine excavator or other means. All arisings shall be removed from site or disposed of.
   - Stump removal via root grinding: After felling, the stump shall be cut down flush with ground level. The Contractor shall remove the stump and roots to a depth of not less than 600mm or no less than 300mm below ground level. All arisings shall be removed from site or disposed of as directed by the Supervising Officer.
6) The contractor shall backfill the resultant hole to the level of the surrounding ground surface, with imported top soil which complies with the appropriate British Standards. The contractor shall leave the site in a neat and tidy condition and to the re-is reasonable and safe manner, and all debris shall be clean up and removed.

PROTECTION

Trees greatly complement the built environment, but can be easily injured during the construction process. BS 5837: 2012 'Trees in relation to design, demolition and construction' offers detailed guidance on the protection of trees during development and construction and includes minimum dimensions of zones of protection, and the avoidance of damage through storage of harmful substances or the lighting of fires near trees.

Trees are vulnerable in many ways during construction, and including:

- Mechanical damage by the careless use of machinery.
- Physical damage by the lowering of levels or trenching for services.
- Compaction of root systems by the passage of vehicles or equipment or storage of materials.
- Toxic effects from spillage of fuels, lubricants or other chemicals.
- Fires near trees.

ESTABLISHMENT AND MAINTENANCE OF PROTECTION ZONES

TRUNKS

- Erect barriers to establish zones before materials or machinery are brought on site or building work begins, including erection of site huts.
- Barriers are not to be removed or altered without prior consultation with an arborist.
- Barriers should remain in place until construction works are completed in full.

GROUND

- Erect shut barriers at the limits of the zones of protection.

TREE PROTECTION BARRIER SPECIFICATION

- Fencing to be 2.3m high, capable of excluding construction activity.
- In most cases, barriers shall comprise weldmesh panels affixed using wire or scaffold clamps to a scaffold framework supported on the ground by driven stakes.
- On some sites it may be appropriate to use temporary site office buildings as protective barriers for trees.
- Notices should be erected on the barriers with words such as "Construction exclusion zone – keep out".

SCAFFOLDING WITHIN PROTECTED AREAS

- If it is essential for scaffolding to be erected in protected areas, barriers as per section 9.3 should be in place. The ground beneath the scaffolding and between the barriers and the building should be protected by boarding such as scaffold boards for pedestrian use, or more substantial boarding for heavier traffic.
- Where boarding is not practicable, the ground should be covered with a geotextile fabric, if necessary, sharp sand will be laid on the fabric to level the ground.
- Boarding will be left in place until building works are completed.

STORAGE OF OILS, FUELS, MATERIALS & MACHINERY

- Materials, fuels, oils, cement mixing, and concrete works, including mixing of cement will be permitted within 10 metres of the stem of any tree or within the protected zone, (whichever is the furthest), also taking account of any slope to avoid the harmful effects of run-off.

FIRES

- No fires to be lit in a position where flames could extend to within 5m of foliage or trunk taking into account wind direction and strength.

SERVICES

- If services must be routed within the protection zone, consider the use of thrust boring or tunnelling at a minimum depth of 750 mm.
- If excavating either of the above, works will be a minimum of 1 metre from the tree and at a minimum depth of 750 mm.
- Hand dig trenches carefully to protect them and ease essential repairs.
- The National Joint Utilities Group 4 publication NJUG 10 gives detailed guidance on the installation of services near to trees. Methods are to be agreed in advance of commencing any works.

TREE CLEAR REACTION

- To prevent damage to remaining root systems stumps of trees to be removed shall not be winched or dug out but chipped to an appropriate level by stump grinder.

MACHINERY AND EQUIPMENT

- Ensure that bark is protected at all times to avoid any equipment striking the tree trunk, branches or foliage. Particular care is needed with delivery vehicles, overhead cranes and excavators.
- Ensure that trees should not be used as anchorages for winches or other equipment, recommendations in BS 3998.

BRIEFING

- All staff and contractors shall be briefed prior to commencing works on the importance of observing the above requirements, and the vulnerability of trees to damage during construction.

NOTE TO

BS 4428: 1989 Code of practice for general landscape operations
BS 3998: 2010 Tree Work Recommendations
BS 5837: 2012 Trees in Relation to Design, Demolition and Construction

PROPOSED LANDSCAPING PLAN

scale 1:500

D	Plot 9 & No.83 boundary adjusted	18/08/22
C	Swale planting & 1.2m fences added	22/06/22
B	Plots 8 & 9 fence line adjusted	27/04/22
A	Revised to client comments	06/04/22

DRAWING ISSUES AND REVISIONS

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PROJECT	Residential Development, Seagate Road, Long Sutton, Lincolnshire
DATE	April 2022
TITLE	Proposed Landscaping Plan
SCALE	1:500
ORIGINAL SIZE	A1 (Landscape)
DRAWING NUMBER	LDC-3598-PL-14 D

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