

Species to be planted total 46 trees.

The area defined is to be planted with predominantly native species which are as follows:

1. Woodland Species total inc 6 containerised trees as listed a-f . - **Out of which the following are to be planted as whips 1.20mts high:**

a. Beech () (15%)	– 5No
b. Birch (Betula pendula) (10%)	- 9No
c. Rowan (Sorbus.) (15%)-	6No
d. Holly (Ilex aquifolium) (20%)	– 9No
e. Oak (Quercus robur) (20%)	—9No
f. Alder (Altus glutinous.) (20%)-	9No

These species are to be planted as a mix and not grouped together.

The total number of trees required for this area is approximately 46.

Planting is to be at 2 metre centres in staggered rows.

Trees and materials are to be sourced, purchased and planted in accordance with the following standards:

- BS 3882 (2015) Specification for topsoil BS 3936 - Part 1 (1992) Nursery Stock - Specification for Trees and Shrubs
- BS 4428 (1989) Code of Practice for General Landscape Operations (excluding Hard Surfaces)
- BS 5837 (2012) Trees in relation to design, demolition and construction -Recommendations
- BS 8545 (2014) Trees: from nursery to independence in the landscape - Recommendations
- BS 3936-1 nursery stock specification for trees and shrubs.

Prior to planting the following must be adhered to:

- All existing trees **must be retained** on site.
- All vegetation (with the exception of existing trees) within the planting area must be removed prior to planting. The recently planted trees and shrubs are to be retained.
- Prior to commencing the planting, the existing soil is to be cultivated to a minimum depth of 300 mm to alleviate compaction• Cultivation **must not** take place within the root protection area of existing trees.
- The depth of topsoil must be a minimum 450 mm. If topsoil needs to be imported to achieve this it must be procured in accordance with BS 3882:2015.
- Planting and aftercare must be in accordance with BS8545:2014. The planting pit for all trees must be at least 200 mm larger than the root ball and square
- Trees must be staked and a shelter of suitable size put around them in accordance with BS8545:2012.

The trees will require after care including watering for the first three years.

The requirement would be to create an immediate visual impact.

Larger trees, however, are harder to establish, and it is recommended that the number is minimised. It is therefore recommended that that a number (10%) of the woodland species go in as standards and the rest of whips. With a small number of larger trees over a large area it is unlikely that this will suppress the younger trees.

3. The following is recommended:

Of the total 46 woodland species to be planted as specified above the following numbers are planted as select standards (girth size 10 – 12 cm) n accordance with BS 3936-1 nursery stock specification for trees and shrubs.

These are to be purchased as containerised trees.

- 1 Alder (Alnus glutinosa)
1 Betula pendula
1 Holly (Ilex Aquifolium)
1 Rowan (Sorbus)
1 Oak (Quercus robur)
1 Birch (Betula pendula)

- 1 Scots Pine (Pinus Sylvestris)

All other woodland and marginal species are to be planted as feathered whips with a minimum height of 1.2 metres and are transplants of at least 1 year

Future management and Maintenance:

- Maintenance is to be carried out until planting becomes established. Ie 5 years after planting.
- Trees – At each inspection, check stakes and ties and adjust iif required, in both summer and winter. Remove stakes when not required to support trees. NB 3 years.
- Prune out all damaged branches and deadwood, cutting back so as not to affect the branch collar. Gradually raise the canopies of new trees to provide clearance for both vehicles and pedestrians.
- Shrubs – Control weed growth until the canopy of all shrubs are closed. All weed growth is to be cleared by hand or by the application of a translocated herbicide, inspect regularly during the growing season. Any badly damaged growth is to the pruned back. Retain the shape of the plant where it is necessary to cut back adjacent to pathways and parking areas. Ensure areas are kept free of all litter, cut back long leggy growth to encourage bushy plant growth,
- Watering- Trees are to be watered on a weekly basis , with 25ltrs per tree for the 1st 32 years. Ensure that they are watered during dry weather. Allow 10ltrs/msq to beds and 25ltrs/ tree for each watering.
- Re-firming- Ensure that all trees and shrubs are firmly bedded in, particularly after storms or heavy rainfall.
- Regularly inspected all planted areas and areas of soft landscaping for any pest damage or vandalism. Report and rectify immediately if practical or during the next available planting season. Take any protective measures necessary.

5 Year Post Planting Tree Maintenance Schedule.
TYPICAL MINIMUM LEVEL OF DETAIL REQUIRED.
To help ensure the successful healthy establishment of all approved tree planting, the following maintenance shall be undertaken for a minimum period of 5 years following the completion of all approved tree planting.

Weed Control
All mulched areas established around new trees to be checked and maintained free of weed growth. An area 1.5 metre wide (minimum) will be left free of all grass turf, weed growth, scrub vegetation etc, around the bases of all newly planted trees, situated within grassed areas and these areas will receive a 75 -100mm layer (minimum) of wood chip mulch.
All weeding to be undertaken by hand.
No chemical weed control to be undertaken.
Minimum Frequency:
March – October: - Monthly
1st November – End February: Every 2 months

Watering
All areas to be regularly checked and watered to maintain moist soil conditions, conducive to normal healthy plant growth at all times.
All watering must be undertaken during early morning or evening.
Minimum Frequency:
31 March – 31 October: 1 - 2 times weekly, to be increased or decreased as necessary during prolonged dry or wet periods respectively.
1st November – end February: Where required to prevent soil desiccation

Bark mulch
Mulch around all new trees to be regularly checked and reapplied/topped up as necessary, with uncontaminated/ untreated wood chip to maintain a minimum 75-100mm depth and 1.5m width from the stems of trees in all directions, at all times, for the duration of the maintenance period.
Note: mounding of mulch against stems must not occur.
Frequency:
As necessary to maintain required mulch areas to minimum spec.

Staking and Tying
Stakes will not extend more than 500 mm above ground level and ties will be secured (using an appropriate method) no more than 25mm below the top of the stakes.
Check Stakes/Ties/Guards and adjust (to avoid stem constriction or other damage) / replace or repair as necessary to maintain effectiveness.

Removal of stakes and Ties:
Once established and subject to no obvious signs of obvious root plate instability (to be confirmed by site owner’s retained Arboriculturalist), tree stakes/ ties to be completely removed 3 - 4 years after initial planting.

Pruning
All new trees are to be checked and where necessary pruned to remove dead, dying, diseased or damaged branches, back to suitable growth points, to maintain and promote healthy growth and natural form.
The quality of all pruning works to be undertaken to current British Standard 3998 specifications.
Frequency – Monthly.

Replacement Planting
All dead / dying, badly diseased, severely damaged or substandard trees included in the approved scheme shall be replaced with new trees of the same species, planting specification and quality as specified on the approved landscape drawing during the nearest planting season 1st October -31 March inclusive) following identification.
Frequency of checks: - Feb, July, Oct - Annually
The LPA is to be notified in writing of any replacement tree planting required .

Substitutes.
No substitutes are to be made without the prior written agreement of the Local Authority.