



**Key:**

- Proposed Application Area
- Existing Site Area
- Existing Trees
- Existing Hedgerows
- Existing Woodland
- Extraction Area
- Wildflower Meadow
- Restoration Contours
- Drainage Ditches
- Attenuation Ponds
- Proposed Hedgerows & Hedgerow Trees
- Proposed Woodland Plantation
- Proposed Scrub Plantation
- Shade Tolerant Wildflower Meadow

**Proposed Woodland, Scrub and Hedgerow Planting**

All restoration planting operations shall be undertaken in the first available seasons following the completion of soil replacement within each phase of restoration.

**Tree & Shrub Planting:**

The proposed scrub and woodland planting blocks shall be planted with trees and shrubs of the species composition and specification as detailed in the planting schedule below.

Species	Percentage Composition by Planting Blocks		Stocktype / Size
	Scrub	Woodland	
<i>Acer campestre</i>	20%	10%	Bare Rooted Transplant - Height 40-60cm
<i>Carpinus betulus</i> **	30%	25%	Bare Rooted Transplant - Height 80-100cm
<i>Corylus avellana</i>	30%	20%	Bare Rooted Transplant - Height 40-60cm
<i>Crataegus monogyna</i>	30%	20%	Bare Rooted Transplant - Height 40-60cm
<i>Fagus sylvatica</i> **	5%	10%	Bare Rooted Transplant - Height 80-100cm
<i>Ilex aquifolium</i> **	5%	5%	Container Grown (2L Pot) - Height 30-40cm
<i>Prunus spinosa</i>	20%	10%	Bare Rooted Transplant - Height 40-60cm
<i>Quercus robur</i> **	15%	10%	Bare Rooted Transplant - Height 80-100cm
<i>Salix caprea</i>	15%	10%	Bare Rooted Transplant - Height 40-60cm

The transplants shall be planted at 2m centres, with the larger trees (marked \*\* in the schedule above) planted randomly at minimum 4m centres with shrub species interspersed between and planted in groups of 5 of the same species.

All transplants shall be 'notch' planted in accordance with BS 4428:1989, whereas container grown stock shall be pit planted.

All tree species marked \*\* in the schedule above shall be protected with 1.2m high, 80-110mm diameter Tubex 'Shelterguards', or similar polyethylene lined mesh guards. Each guard shall be secured to a 1.5m long 25x25mm square section softwood timber stake using integral ratchet ties. Stakes shall be driven at least 30cm into the ground adjacent to the tree prior to fixing the tree guards.

All shrub species (with the exception of *Ilex aquifolium*) shall be protected with 60cm high, 130-160mm diameter 'Shelterguards' or similar. Each guard shall be secured to a 90cm long 25x25mm square section softwood timber stake using integral ratchet ties. Stakes shall be driven at least 30cm into the ground adjacent to the shrub prior to fixing the guards.

All *Ilex aquifolium* plants shall be protected with 60cm high, 170-200mm diameter Tubex 'Shelterguards', or similar. Each guard shall be secured to a 90cm long 25x25mm square section softwood timber stake using integral ratchet ties. Stakes shall be driven at least 30cm into the ground adjacent to the tree prior to fixing the tree guards.

Immediately following planting, an approved slow release granular fertilizer shall be applied to the surface of the planting area around each transplant (at a rate to be in accordance with the manufacturer's instructions).

**Hedgerow Planting:**

The proposed hedge planting shall comprise the following species mix, planted in groups of five of the same species in double staggered rows at 500mm centres. The wider central hedgerow strips shall comprise 7m wide planting blocks with transplants at 1.5m centres in groups of five of the same species.

Species	Percentage Composition	Stocktype / Size
<i>Acer campestre</i>	15%	Bare rooted hedging transplant (1+1), 40-60cm
<i>Corylus avellana</i>	20%	Bare rooted hedging transplant (1+1), 40-60cm
<i>Crataegus monogyna</i>	25%	Bare rooted hedging transplant (1+1), 40-60cm
<i>Ilex aquifolium</i>	5%	Container Grown (2L Pot) - Height 30-40cm
<i>Prunus spinosa</i>	20%	Bare rooted hedging transplant (1+1), 40-60cm
<i>Viburnum opulus</i>	10%	Bare rooted hedging transplant (1+1), 40-60cm

Each hedging transplant shall be notch planted and protected with a spiral rabbit guard supported by a stout 800mm bamboo cane. All *Ilex aquifolium* plants shall be protected with 60cm high, 170-200mm diameter Tubex 'Shelterguards', or similar.

150-175cm feathered trees, comprising *Quercus robur* (65%) and *Acer campestre* (35%) shall be pit planted at random centres within the hedgerows at the approximate locations shown on the restoration plan. Each feathered tree shall be secured to a 90cm long, 50mm diameter round section timber stake and shall be protected with a 60cm high, 170-200mm diameter Tubex 'Shelterguards', or similar, fixed to the stake. Each stake shall be driven at least 30cm into the ground adjacent to the tree prior to planting.

Immediately following planting, an approved slow release granular fertilizer shall be applied to the surface of the planting area around each transplant (at a rate to be in accordance with the manufacturer's instructions).

**Maintenance:**

All tree & shrub and hedgerow planting areas shall be maintained for a period of at least 3 years following planting. Weed control shall consist of spot spraying of Glyphosate in a radius of at least 300mm around each tree or shrub in April / May (and again in August if necessary). Vegetation between trees and shrubs shall be strimmed at least once per annum and any pernicious weed shall be spot treated with a selective herbicide. Tall grass or weeds growing within the tree guards shall be hand pulled as required.

**Aftercare Scheme:**

A full 5 year aftercare scheme will be agreed with the Mineral Planning Authority. This will include annual site monitoring, detailed proposals for annual grazing and cropping regimes, weed control and details of soil amelioration and drainage schemes if required.

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client: **Raymond Brown**

project: **Roke Manor Quarry Extension**

title: **Restoration Planting Plan**

scale: 1:2000	date: 23/03/21	drawn by: SD	checked by: AW	date: 30/03/21	details: Amendment to western hedge
project no: RM/254	draw no: RM/254/18	sheet: E			

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