

Landscape Proposal

- Maintained grass
- Meadow area Flowering Lawn Mix (2,921m²)
- Meadow area: Hedgerow Meadow Mix (8,830m²)
- Existing scrub groundcover
- Existing tree canopy
- Proposed tree
- Proposed understory planting mix
- Ground-installed wooden marker pole (600mm Height)



PLANTING SCHEDULE

CARE SHOULD BE TAKEN TO ENSURE THAT ALL TREES ARE PLANTED A MINIMUM OF 1M AWAY FROM ALL FOOTPATHS AND SERVICE STRIPS.

These plants have been chosen taking into account the recommendations of the RHS Plant Selector. Where possible, plants which are particularly attractive to bees have been used.

PROPOSED SMALL TREES (<10m)

Ia	Ilex Aquifolium (Common Native Holly)	1.5-1.75m, 50L	14no
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An area 1m Ø, at the base of the tree, should be mounded and kept clear of weeds and grass and other deleterious material.

PROPOSED MEDIUM TREES (10 - 20m)

Bn	Betula nigra (River Birch)		4no
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The above trees to be rootballed Standard (8-10cm girth) Single-staked and fitted with spiral tree guards. An area 1m Ø, at the base of the tree, should be mounded and kept clear of weeds and grass and other deleterious material.

PROPOSED LARGE TREES (>20m)

Ag	Alnus glutinosa (Alder)		3no
Qr	Quercus robur (Pedunculate) Oak		2no

The above trees to be rootballed Heavy Standard (10-12cm girth) Double-staked and fitted with spiral tree guards. An area 1m Ø, at the base of the tree, should be mounded and kept clear of weeds and grass and other deleterious material.

UNDERSTOREY MIX (375no)

25%	Cotoneaster monogyna (Hawthorn)	60 to 80cm 1+1	94no
20%	Ilex aquifolium (Holly)	20 to 30cm Cell grown	75no
20%	Salix purpurea (Purple Osier)	60 to 80cm 1+1	75no
10%	Viburnum opulus (Guelder Rose)	60 to 80cm 1+1	38no
10%	Cornus sanguinea (Dogwood)	60 to 80cm 1+1	37no
10%	Corylus avellana (Hazelnut)	60 to 80cm 1+1	37no
5%	Rosa pimpinellifolia (Scotch Rose)	60 to 80cm 1+1	19no

The area is to be cultivated and prepared for 'Spit and Place' to ensure a series of raised mounds. Understorey mix is to be planted in groups of 5 to 10 at 1 per m².

PROPOSED MEADOW MIX

2,921m² Flowering Lawn Mix available from: <http://www.scotlansseeds.co.uk/shop/flowering-lawn-mix/>

8,830m² Hedgerow Meadow Mix available from: <http://www.scotlansseeds.co.uk/shop/hedgerow-mix/> (or other approved mix/supplier)

Areas of meadow are to be delineated (per plan) with marker posts (600mm height) installed at 4m OC spacing to allow for sowing and correct ongoing maintenance. Areas adjacent to parking and roads are to be provided a 2m wide maintained grass strip.

PROPOSED AMENITY GRASS MIX

Medallion Lawn Seed available from: <https://www.ralwin.co.uk/lawn-care/medallion-premium-lawn-seed-20kg> (or matching approved)

PLANTING SPECIFICATION

- GENERAL**
- Plant material shall be locally sourced, as far as is reasonably practicable. It is the Contractor's responsibility to ensure they are selecting suitable origins, provenance, and categories of planting material for planting native species of trees & shrubs. Seed mixes to be from UK supplier.
 - All planting to conform to National Planting Specification Guidelines. The individual setting out of landscape material on site shall be the responsibility of the contractor.
 - Plant material to conform to the National Plant Specification. Plant handling and planting operations are to be in accordance with Horticultural Trades Association (HTA) 'Handling and Establishing Landscape Plants', Parts I-III.
 - All planned planting (and grassed) areas are to be initially cleared of vegetation (annual/perennial weeds; invasive woody shrubs; self-seeded material; long grass), rubble, glass, and litter/rubbish. All deleterious material to be removed from site.
 - All developed weed growth shall initially be eliminated with a suitable weed killer (to be specified and applied by a suitably certificated/trained operative and to be used strictly in accordance with current legislation and relevant codes of practice). Allow recommended drying off period to elapse prior to cultivation/clearance. Repeat applications as required for persistent/re-emerging weed species.
 - Planting Seasons
 - In general, planting operations are only to occur in appropriate weather conditions. Avoid planting when ground is saturated or when hard/ sustained frosts are likely.
 - Rootballed/Container-grown Trees and Shrubs: October to March (any time if ground and weather conditions are favourable, avoiding periods of severe drought, wet, or freezing)
 - Trees (Bare-Root): October to March
 - Grass seeding/hurf & Meadow Mixes: Late March to early May or September to early October

- TREES**
- Trees shall be planted at the appropriate season depending on root-growth or bare-root, and in line with BS 8545:2014 Trees: from nursery to independence in the landscape.
 - Tree pits are to be dug not smaller than 250mm larger than the overall root spread. Care is to be taken to ensure that all sides are permeable and have not been 'spaladed', and that all pits are free draining with 50mm of washed road pe gravel to the base of the tree pits.
 - Staked to schedule specifications.
 - Backfill for the tree pits is to be 20% Peat-free Compost, Fison's or similar approved.
 - The backfill is to be a raised mound at the top with the centre 150mm above the edges. Care is to be taken to ensure that the finished backfill level is at the nursery level on the tree and that level is at the centre of the mound 150mm above the edges of the pit when the tree has been well firmed in.
 - On completion of the planting the tree shall be well watered in with not less than 10gallons of water. Thereafter it should be watered as required, following periods of any more than three consecutive hot, dry days, until the tree is fully established.

- MEADOW GRASS SEEDING**
- Remove existing vegetation/grass by spraying or by ploughing or digging in (cutting short first). Herbicide pre-treatment to be with approved Glyphosate only.
 - For the designated biodiversity improvement/meadow areas, rotovate to a depth of 150mm. Areas to be free from rubble, stones and other deleterious material. Surface to be prepared to a fine tilth by raking or harrowing.
 - NO APPLICATION OF SOIL CONDITIONER OR FERTILISER.
 - Spot spray, dig out, or further rotovate any recurring invasive weeds (Docks, thistles, other perennial weeds) 2 weeks prior to sowing.
 - Seed to be sown to supplier recommendations (2g per m²). Mix seed at start and through sowing to ensure seeds do not separate out per size. Use equal volume dry sand to bulk up seed and improve handling/aid spreading.
 - Sow mechanically with seed to be broadcast by spreader. Divide sowing areas into zones and use half of the seed for each zone, sowing in one direction first. Use remaining seed to sow across the other direction to avoid empty patches.
 - Areas to be gently harrowed or rolled after sowing.

- UNDERSTOREY MIX (WHIP PLANTING)**
- The planting area shall be initially checked for quality of soil and risk of flooding (it is known that planting area at base of hill can retain water). If there is a problem with either of these, remedial actions shall be taken. (Note: It is the responsibility of the contractor to ensure that he is planting into the correct quality of material and not into waterlogged soil)
 - The area shall be cultivated by 'Spit and Place' to ensure a series of raised mounds. The whips shall be placed at the higher point.
 - All plants are to be staked and tied, and protected with a 600mm high Tubex Standard tree shelter.
 - Each plant is to be supported with a stake driven to a firm base, with a proprietary tie positioned at 500mm above ground, and with the stake a further 100mm above the tie. The tree should be planted ensuring that the stake will be on the windward side of the tree shelter. The tree shelter should then be carefully positioned over the tree, making sure not to damage the lateral branches and ensuring that the releasable ties slide over the stake. It should be pushed into the ground a minimum of 20mm. The thumb release ratchet ties should then be tightened to ensure that the tree shelter is firmly positioned. The tie end should then be tucked into the hole in the tree shelter.

SPECIFICATION FOR THE PROTECTION AND RETENTION OF TREES

Tree Protection shall be compliant with guidance and recommendations set out in BS 5837: 2012 Trees in Relation to Construction.

Tree Protection Zone

Existing trees shall be protected by durable fencing throughout the development period. The fence shall be erected before any work commences and shall be maintained throughout the contract.

Protective fencing shall be as illustrated in Figure 2 of BS 5837. The area to be enclosed by the fence shall be calculated based on the age, size and vigour of the trees, as set out in Table 1 of BS 5837. Alternatively, the fence shall enclose the area of branch spread, plus 1.8m on all sides. Modifications to the fence line may be necessary during the construction process. The Planning Department shall be consulted before each modification and their approval sought.

Avoid locating Drains or Services within this protected zone and Do Not raise or lower soil levels within or adjacent to the zone. Avoid changing ground levels elsewhere on site in such a way as to create a sump or puddles around the base of trees.

Prevention of Damage & Contamination

Do Not store Chemicals, Oils, Herbicides or Toxic Substances within or adjacent to tree protection fences.

Do Not locate Compounds, Site Huts, Machinery or stockpiles of Materials within the protected zone around trees.

Do Not locate vehicular routes or parking beneath or around protected trees. If this is unavoidable, temporary Tank Tracks or Sleepers shall be laid to avoid compaction.

Instructions for Work Within Tree Protection Zone

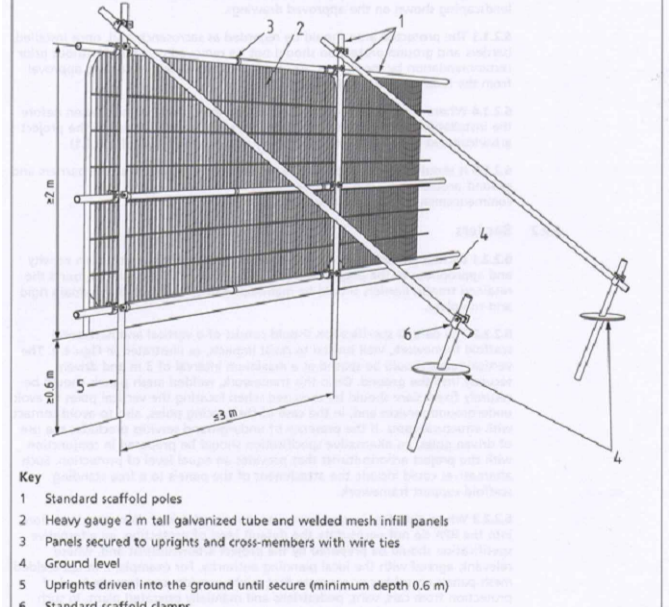
Do Not attach signs or cables to trees.

Do Not light fires close to trees.

Where it is not possible to complete works without crossing the Protected Zone around existing trees, the following procedures must be followed:

- Excavations must be hand dug and supervised.
- All exposed roots greater than 30mm diameter must be left uncut and undamaged.
- Smaller roots may be cleanly cut if necessary and removed.
- Backfill material to excavated trenches must be clean and free of rubble and deleterious material.
- The trees shall be monitored for signs of dieback over the next growing season and if necessary expert arboricultural advice sought.

Figure 2 Default specification for protective barrier



MAINTENANCE

WMSP will adopt within their overall property management/maintenance scheme the following maintenance regime. This to ensure the establishment and ongoing success of installed/sown BNG enhancement landscape:

Grass:

- Fine grass cut 1.6 times per year.
- All cuttings to be raked and removed from the site.

Meadow Grass:

- Areas of Meadow are to be maintained as per supplier/seed merchant recommendations and guidelines, or
- Early meadow cut in the first year ONLY if unwanted annual weeds appear and grow rapidly. Cut material should be removed. Cutting annual weeds may not be necessary if there is little growth, few weed plants or the appearance is acceptable. Annual weeds should disappear once the meadow is established.
- Meadows should be cut and the cuttings removed once a year at the end of the growing season (normally September). This should be the only management required.

Flowering Lawn Mix

- Ongoing management for Flowering Lawn mix: this should be kept cut to approximately 10cm all season except July and August when it should be allowed to grow taller to allow full flowering.

Yellow Rattle

If grass appears to be dominating through establishment, overseed with additional Yellow Rattle.

Understorey Mix:

This has been designed to maintain a semi-natural woodland understorey cover to provide boundary landscape connectivity and screening. As the understorey matures it should encourage regeneration and ecological diversity. Pruning should therefore be kept to a minimum, with the below implemented to ensure healthy long-term establishment.

- The understorey is to be thinned once every five years for the first twenty years.
- The ground at the base of the hedgerow mix shall be kept clear of invasive weeds, either mechanically or by use of an approved herbicide.

Trees:

Trees have been chosen for their appropriateness to their individual location. Pruning, other than for health and safety reasons, should not be necessary. They should, however, be inspected by a suitably qualified arboriculturalist annually.

- An area 1m diameter at the base of the trees shall be kept clear of weed and grass either mechanically or by using an approved herbicide.
- Tree stakes and ties should be inspected 3 times per year (Autumn, Winter and Spring).
- All dead and diseased branches, or those broken due to malicious action or wind damage should be cleanly removed and the scar cleaned up.
- All trees which have been removed or which are found to be dying, severely diseased or damaged will be replaced by trees of similar size and species to those originally planted. These should be replaced as soon as seasonal weather conditions allow.