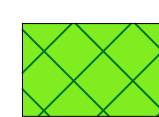


PLANTING NOTE



MIX 1 - 10m wide belt of Woodland Planting. See Mix 1 Typical Planting Grid

Woodland Tree Species:

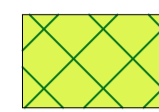
Plants to be distributed evenly throughout area at 6m centres.

35% <i>Quercus petraea</i> (Sessile Oak), Bareroot, 6/8cm girth Standard	24no.
35% <i>Acer campestre</i> (Field Maple), Bareroot, 6/8cm girth Standard	24no.
30% <i>Pinus sylvestris</i> (Scots Pine), 80-100cm 12L Feathered	20no.
Total:	68 no.

Woodland Edge Species:

Plants to be distributed evenly throughout area at 1.5m centres in informal, naturalistic groups of 8-12 individual species. Species to include but not be limited to:

20% <i>Betula pubescens</i> - (Downy Birch), Bare Root, 1.2 - 1.5 m Whip	200no.
20% <i>Sorbus aucuparia</i> - (Rowan), Bare Root, 1.2 - 1.5 m Whip	200no.
15% <i>Malus sylvestris</i> - (Crab Apple), Bare Root, 0.9 - 1.2 m Whip	150no.
15% <i>Ilex aquifolium</i> - (Holly), Bare Root, 0.9 - 1.2 m Whip	150no.
15% <i>Corylus avellana</i> - (Hazel), Bare Root, 0.9 - 1.2 m Whip	150no.
15% <i>Crataegus monogyna</i> - (Hawthorn), Bare Root, 0.9 - 1.2 m Whip	150no.
Total:	1000 no.



MIX 2 - 5m wide belt of native hedgerow planting spotted with standard trees as shown in Mix 2 Typical Planting Grid

Tree Species:

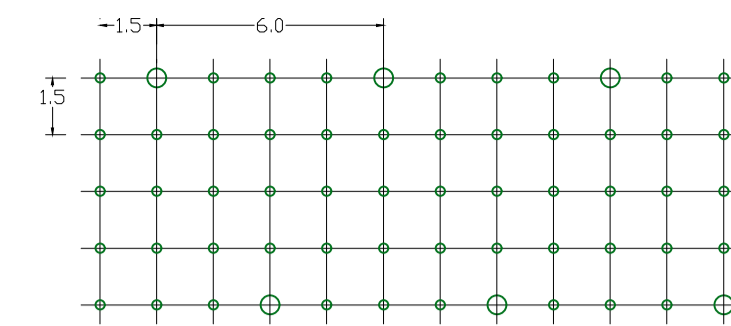
Plants to be distributed 10m ctrs. Species to include but not be limited to:

50% <i>Carpinus betulus</i> - (Hornbeam), Bareroot, 6/8cm girth Standard	3no.
50% <i>Populus alba</i> - (White Poplar), Bareroot, 200-250cm	3no.
Total:	6 no.

Hedgerow Mix Species:

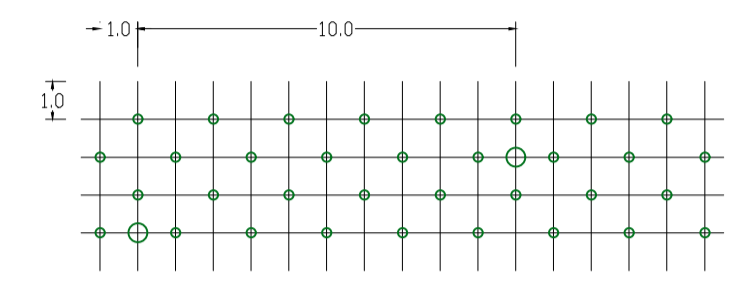
Plants to be distributed 4 staggered rows at 2m ctrs in groups of 8-12 individual species. Species to include but not be limited to:

70% <i>Crataegus monogyna</i> - (Hawthorn), Bare Root, 40-60cm	80no.
20% <i>Ilex aquifolium</i> - (Holly), Bare Root, 40-60cm	20no.
10% <i>Prunus spinosa</i> - (Blackthorn), Bare Root, 40-60cm	10no.
Total:	110 no.



- Woodland Trees @ 6m spacing
- Woodland Edge Plants @ 1.5m spacing

MIX 1 TYPICAL PLANTING GRID.



- Tree @ 10m spacing
- Hedge Plants @ 2m ctr, 4 rows staggered

MIX 2 TYPICAL PLANTING GRID.



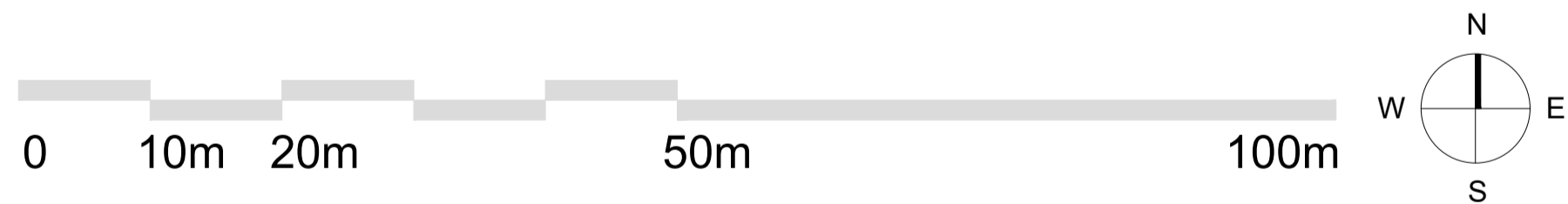
Acer campestre *Betula pubescens* *Quercus petraea* *Malus sylvestris*



Pinus sylvestris *Populus alba* *Carpinus betulus* *Crataegus monogyna*



Prunus spinosa *Sorbus aucuparia* *Ilex aquifolium* *Corylus avellana*



KEY

- APPLICATION SITE BOUNDARY
- EXISTING TREES & VEGETATION TO BE RETAINED
- EXISTING GRASSLAND & PASTURE FIELD
- EXISTING ARABLE FIELD
- PROPOSED PLANTING MIX 1 woodland and woodland edge mix refer to planting note
- PROPOSED PLANTING MIX 2 native hedgerow mix refer to planting note
- EXISTING FIELD GATE to be relocated
- PROPOSED LOCATION OF FIELD GATE

TOPSOIL

Existing site won topsoil to be used where quality and suitability has been agreed in advance of planting. All topsoil, existing and imported, to comply with BS3882: 2015 - General Purpose Grade to meet with detailed specification below.

- Texture: Sandy Loam - Sandy Silt Loam
- Soil reaction: neutral: (pH 7.5 - 8.2)
- Reasonably free of stones:
 - Stones > 2mm - 10% max.
 - Stones > 20mm - 5% max.
 - Stones > 50mm - 0% max.
- Maximum size of stones in any dimension: 20mm
- Organic matter: Not less than 4%
- Electrical conductivity < 3300
- Nitrogen (N) - not less than 0.2%
- Available Phosphorus (P) - not less than 14mg/l
- Available Magnesium - not less than 26 mg/l
- Available Potassium (K) - not less than 900 mg/l
- Free of weed seed, roots of perennial weeds, weeds, sticks, subsoil foreign matter and toxic substances
- New topsoil supplied from an approved source such as 'Landscape20' supplied by BStopsol or similar approved.

SUBSOIL

- Subsoil must comply with BS8601:2013 specification for subsoil.

SOIL IMPROVER AS REQUIRED

'Algimure Seazure' as supplied by ALS Ltd or similar approved, applied at 70g/m2 where existing topsoil nutrients require improvement.

COMPOST AS REQUIRED

'gt PAS 100 Compost' as supplied by Green-tech or similar approved. All products to be certified to the national; standard for compost BSI PAS 100. Do not use products containing peat.

SLOW RELEASE FERTILISER AS REQUIRED

'Enmag' slow release fertiliser or similar approved shall be applied to all tree and shrub planting and incorporated into the planting backfill. The fertiliser shall be applied at a rate of 50g/m²

ADDITIVES AS REQUIRED

Allow for incorporation of Mycorrhiza Rootgrow Professional in dry granule form spread directly into the prepared tree and rootballed hedge/topiary planting pits at recommended rates for the size of plants going in.

FINAL GRADING

When topsoil is reasonably dry and workable, grade to smooth, flowing contours, with falls for adequate drainage, removing all minor hollows and ridges. Ensure all growing medium is stabilised to banks to ensure erosion does not occur.

FALLOW PERIOD

Where existing soil or imported topsoil lies fallow for extended periods, the Contractor shall allow for and be responsible for undertaking weed control measures.

REE SIZES:

The size stated within the planting plan is the minimum size.

TREE PITS

Adequate soil volumes must be ensured to all new tree planting. Where necessary, increase planting pit dimensions to ensure that tree pits are at least 75mm deeper and 150mm wider than root system when fully spread. Compacted glazed sides of pits shall be roughened. Plant trees upright in centre of pit and with root flare planted at surface level.

BACKFILLING MATERIAL

Before planting trees, thoroughly mix topsoil excavated from the pit and additional topsoil as required with other ingredients in the following proportions:-

- Topsoil - 75%
- Tree planting Compost - 25%
- 'Mycorrhiza Rootgrow Professional' in dry granule form at instructed rates per size of tree
- Enmag slow release fertiliser at a rate of 50g/m² of topsoil.

TREE SUPPORT AND PROTECTION

All above ground planting paraphernalia and support should be formed from sustainable materials and plastic free

DRAINAGE TO TREE PITS / SHRUB PLANTING

Prior to planting, ensure that all tree pits and shrub planting areas are free-draining and do not hold water. If plant areas are not free draining following scarification of sides allow for the following:

- Increase depth of excavation to allow for aggregate layer, with base slightly falling to outlet.
- Aggregate layer: Clean gravel or broken stone with no fines, graded 40 to 20mm, depth: 300mm
- Perforated plastic drainage pipes: lay around perimeter of pit within aggregate layer.
- Geotextile filter: lay over aggregate before installing tree or backfill.
- Completed pits: Ensure all pits are free draining before planting.

MULCHING

All new planting areas to me mulched with high quality organic mulch to retain moisture and suppress weeds. Mulching to be undertaken on an annual basis in late winter or early spring.

Mulch material is to be fine grade ornamental conifer bark chippings, dark brown in colour with less than 5% wood such as 'Composted Fines' supplied by A.W.Jenkinson or similar approved. Coarse grade bark chippings are not permitted. All mulch to be locally sourced, from an approved source and shall be pest, disease and weed free and be free of Methyl Bromide contamination. All bark must have been matured for a minimum of 16 weeks; naturally heat treated to ensure excess volatile substances are driven from the bark. Temperatures must exceed 50 °C for a minimum 14 days continuous period, followed by a further period of stabilisation. The pH to be between 4.5 and 5.8. Final mulch specification to be approved by Landscape Architect with a representative sample of the mulch supplied for approval prior to delivery to site.

Mulch to be spread to a depth of 75mm in all areas of shrub/ herbaceous/hedge planting.

A 1500mm diameter circle (75mm depth) to be maintained around the base of all trees including those planted within lawn (installed with preformed circular 1500mm diameter metal edging ring)

Sweep up and replace mulch spilling onto adjacent areas and return to planted area.

WATERING

Watering to be carried out as necessary to ensure the successful establishment of all trees, shrubs and grassed areas once planting has been carried out, through defects period and ongoing maintenance period as per the terms of the contact.

LEVELS

Existing levels to be preserved around existing trees and vegetation retained with all existing vegetation to be protected during construction. New planting areas to be formed to smooth flowing contours.

SOFT LANDSCAPE NOTE

WORKMANSHIP AND MAINTENANCE GENERALLY

- All works will be subject to the following British standards:
 - BS 4428: 1989 - general landscape operations
 - BS 3936-1:1992 nursery stock. Specification for trees and shrubs
 - BS 5837:2012 trees in relation to design, demolition and construction recommendations
 - BS 7370 1993: Part 4, Grounds maintenance recommendations including shrub pruning

The contractor must be familiar with exact location of any underground services and maintenance points.

All planting areas to be maintained weed free for duration of contract period until handed over to client and or in accordance with any maintenance agreement post completion. Any weeds established during rectification works to remain weed free as per original contract.

All composts, mulches and / or soil conditioners used on site are to be from an approved source and free from peat.

PLANTS

Plant handling at the nursery, and during transit up to delivery shall be in accordance with 'Plant Handling' published by the committee for plant supply and establishment (CPSE). The contractor shall comply with clauses 3 & 4 of the above booklet (obtained from the horticulture trades association) which refers to the receipt, unloading and temporary storage of plants.

Plants shall be healthy and exemplar specimens of their species, free from all pests and diseases with good fibrous root systems, free from damage. All planting to be in compliance with BS 4428: 1989 code of practice for general landscape operations (excluding hard surfaces).

All plants to conform to BS3936 and to be supplied from local sources wherever possible, in accordance with HTA National Plant Specification and Nursery Certification Scheme. Bundles (bare root) or pots to be clearly labelled with species and size. Sizes stated in the schedule are minimum sizes. Any changes to the plant species or specifications must be approved with the local authority. Storage of plant material on site should be minimised.

All large tree planting (standards and above) to be supplied containerised or rootballed stock

ORIGIN OF SHRUB & TREE PLANTING

Wherever possible all trees, shrubs, ground cover, hedging plants and climbers supplied shall be British grown stock, indigenous to the area and fully hardened off. Plant material may be imported as necessary if unavailable in the UK. The Contractor shall state in his tender the country of origin and the nursery supplying the materials. All native structure planting shall be of British origin. All plant material will be tagged and clearly identified for use on the project.

PLANTING SEASON

All planting to be carried out in the first planting season unless an alternative phasing scheme has been approved. Rootballed trees stock to be planted within appropriate seasons from late October to the end of March. If outside this season containerised stock must be used - April to June & September - October. Do not plant when the ground is waterlogged or frozen or during periods of drought.

All planting areas to be maintained weed free for duration of contract period.

CONTAMINATION

Do not use topsoil contaminated with subsoil, rubbish, oil based products, or other materials toxic to plant life. Dispose of contaminated topsoil in accordance with current waste disposal, CDM and Health and Safety Regulations.

HERBICIDE GENERALLY

Any herbicide used on site shall be of a type approved by and applied in accordance with Pesticide Regulations 1986 and any relevant Codes of Practice issued by DEFRA. Herbicide shall be applied to topsoil to eradicate any weed germination which has occurred either prior to or following cultivation.

Apply all pesticide/herbicide strictly in accordance with manufacturer's recommendations, all relevant Local Authority requirements and current CDM regulations observing all precautions. Remove all containers and chemicals from site immediately once they are no longer required.

CHEMICALS GENERALLY

Use only products approved by and applied in accordance with Pesticide Regulations 1986 and any relevant Code of Practice issued by DEFRA and all current Health & Safety legislation, COSHH requirements and CDM regulations. Ensure site operatives are certified. Ensure no chemical products are used in or nearby waterways.

STORAGE OF SOILS

- Handling and storage of topsoil to comply with BS3882: 2015.
- Storage periods of soil to be kept to a minimum.
- Care should be taken to ensure topsoil and subsoil are kept separate at all times.
- If soil is stockpiled then storage mounds should not exceed a height of 1.5m for topsoils or 3m for subsoils.

PLANTING VOLUMES & SOIL DEPTHS

Ensure sufficient soil volumes of adequate quality for growth of trees and planting to a mature age. The depth of topsoil spread should not normally exceed 300 mm. Suitable (loosened) subsoil should provide the remainder of the minimum rooting depth. The minimum rooting depth should be normally

- 450 mm for grass,
- 600 mm for shrubs and herbaceous planting
- 900 mm for trees

FOR PLANNING



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YORK PULLMAN BUS COMPANY LTD

project
FOREST HILL FARM, STRENSALL, YORK

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JP EP

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