

Notes

- These notes apply to Environmental Masterplan Drawings LCC5161943001-010 (Sheets 1-10).
- New woodland planting to be laid out in a random arrangement to 'blur' the extent of earthworks, stepping in and out of the earthworks footprint to create a naturalistic appearance.
 - In accordance with DMRB Volume 10: Section 1: Environmental Design and Management: New Roads; Part 2, tree planting is to be set a minimum of 5m back from the carriageway; shrub planting is to be set back a minimum of 3m from the carriageway, forming a Woodland Edge.
 - Specific species proportion and composition of all planting areas will vary in response to the conditions of the site and character of the surrounding landscape.
 - Detailed design to include no tree pits within 2m of the top or toe of an embankment or retaining structure; no climax tree (i.e. Oak) within 9m of the carriageway; no tree/shrub within 2m of permanent fence or 3m of footpath/cycleway.
 - Areas of woodland planting to include feathered trees (up to 6cm girth; 1.75-2.5m) dispersed randomly throughout the mix to provide variation in height.
 - 'Proposed Ornamental Trees' to be Heavy Standard trees with a girth in excess of 12cm; height in excess of 300cm.

- 'Proposed Individual Trees' to be clear-stem, multi-stemmed or feathered trees with a girth in excess of 6cm and a height in excess of 250cm.
- A proportion of the trees in the 'Woodland' to be Planted at Increased Height at Bat Crossings to be 3m height from day 1, planted in staggered rows at sufficient density to create a dense vegetative barrier sufficient to lift bats, with the aspiration of achieving 5m height in 5-10 years.
- Symbols used to indicate location of individual trees are indicative of intent and subject to refinement at detailed design.
- No tree species to be planted within 10m of overhead lines (20m width tree-free corridor) and agreed standoffs from below ground utilities.
- Depth of topsoil in woodland planting areas to be a minimum of 300mm up to a maximum of 450mm.
- Proposed tree and shrub planting to be protected from grazing.
- Proposed trees to be staked.
- SuDS layouts shown are indicative only.
- All drainage elements shall be naturalistic and sensitively designed, with planting used to integrate the drainage into the local landscape setting.
- Earthworks around SuDS ponds will vary in gradient to maintain

- landscape fit where practicable.
- Earthworks profiles shall be varied to reflect the existing landscape. Long, consistent profiles shall be avoided. Max 1:3.
- The top and toe of all earthworks shall be rounded to ensure integration with the existing landscape.
- In the absence of specific mitigation measures, all temporary construction areas, including temporary drainage features, are to be reinstated as existing following completion. Existing vegetation in temporary construction areas is to be retained where feasible.
- Environmental barriers will be integrated physically and visually with the wider landscape features and other infrastructure for the scheme, including graded transitions between barriers of different heights and between ends of barriers and the ground.
- The alignment of all mitigation fencing illustrated on these figures is indicative, and to be refined at detailed design stage.
- Translocation not inclusive of Fraxinus sp.
- Specific location of bird boxes, bat boxes, hedgehog domes and wildlife hibernacula to be determined on site by Ecologist.
- 1m wide access associated with drainage to be provided at the base of all embankments.
- All areas of proposed woodland planting to be seeded with species rich grassland.

Planting Mixes

Native Hedge (incl. Instant Native Hedge)

- Acer campestre
- Carpinus betulus (<5%)
- Cornus sanguinea
- Corylus avellana
- Crataegus monogyna
- Prunus avium 'Plena'
- Prunus spinosa
- Ulmus glabra

Individual Trees

- Acer campestre
- Alnus glutinosa
- Betula pendula
- Corylus pubescens
- Malus sylvestris
- Prunus avium
- Quercus petraea
- Quercus robur

Large Specification Ornamental Trees

- Amelanchier lamarckii (Multi-Stem)
- Betula utilis var. 'Jacquemontii' (Multi-Stem)
- Prunus avium 'Plena'
- Prunus serrula (Multi-Stem)
- Tilia tomentosa 'Brabant'

Native Broadleaf Woodland Trees

- Acer campestre
- Carpinus betulus (<2.5%)
- Fagus sylvatica
- Malus sylvestris
- Prunus avium
- Prunus padus
- Quercus petraea
- Quercus robur

- Ulmus glabra

Shrubs

- Corylus avellana
- Crataegus monogyna
- Rosa canina
- Sambucus nigra
- Sorbus aucuparia
- Viburnum opulus

Bulbs

- Allium ursinum
- Anemone nemorosa
- Hyacinthoides non-scripta

Native Mixed Woodland Trees

- Acer campestre
- Malus sylvestris
- Pinus sylvestris (<10%)

- Prunus avium
- Prunus padus
- Quercus petraea
- Quercus robur
- Taxus baccata

Shrubs

- Corylus avellana
- Crataegus monogyna
- Ilex aquifolium
- Rosa canina
- Sambucus nigra
- Sorbus aucuparia

Bulbs

- Allium ursinum
- Anemone nemorosa
- Hyacinthoides non-scripta

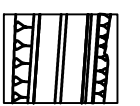
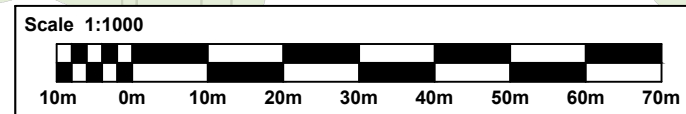
Native Wet Woodland

Trees

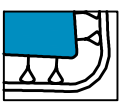
- Alnus glutinosa
- Betula pendula
- Betula pubescens
- Prunus padus
- Salix alba
- Salix caprea

Shrubs

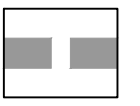
- Salix cinerea
- Salix viminalis
- Sambucus nigra



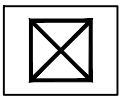
Proposed Scheme



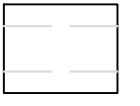
Proposed Retention Pond (Full drainage design TBC)



Existing Railway



Existing Pylon



Indicative 20m Overhead Line Corridor



Land Owned by Lancashire County Council



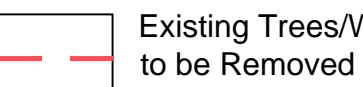
Consented Planning Application (Refer to Annotation)



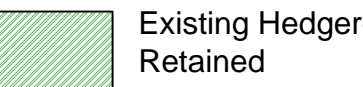
Existing Trees/Woodland Retained (Based on canopy spread where surveyed)



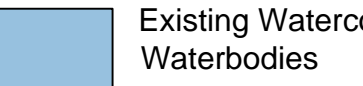
Root Protection Area for Surveyed Existing Trees/Woodland Retained



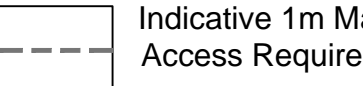
Existing Trees/Woodland to be Removed



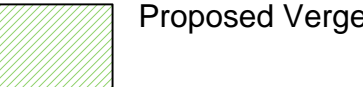
Existing Hedgerow Retained



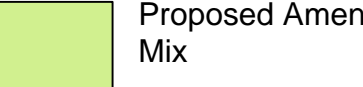
Existing Watercourses and Waterbodies



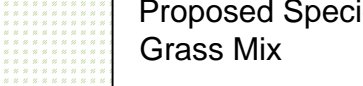
Indicative 1m Maintenance Access Requirement



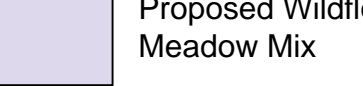
Proposed Verge Grass Mix



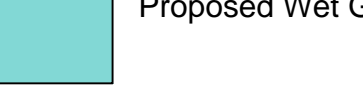
Proposed Amenity Grass Mix



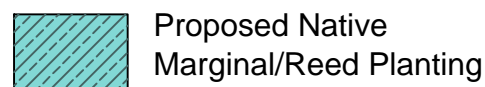
Proposed Species Rich Grass Mix



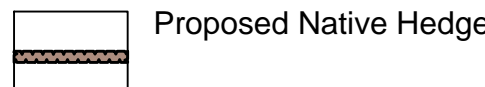
Proposed Wildflower Meadow Mix



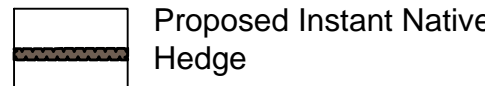
Proposed Wet Grass Mix



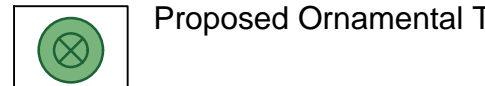
Proposed Native Marginal/Reed Planting



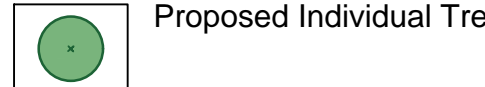
Proposed Native Hedge



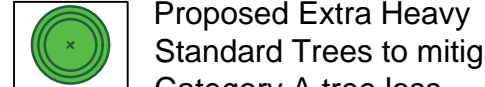
Proposed Instant Native Hedge



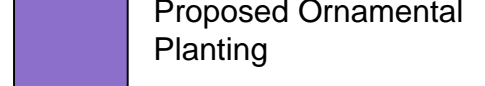
Proposed Ornamental Trees



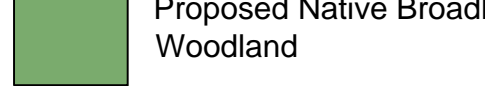
Proposed Individual Trees



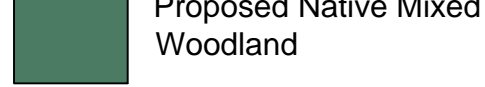
Proposed Extra Heavy Standard Trees to mitigate Category A tree loss



Proposed Ornamental Planting



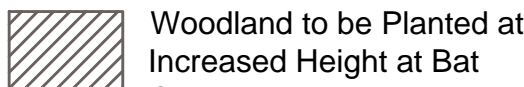
Proposed Native Broadleaf Woodland



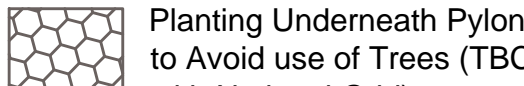
Proposed Native Mixed Woodland



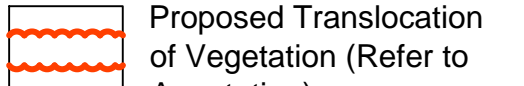
Proposed Native Wet Woodland



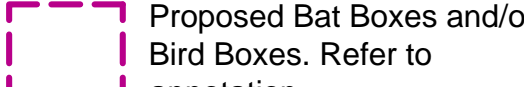
Woodland to be Planted at Increased Height at Bat Crossings



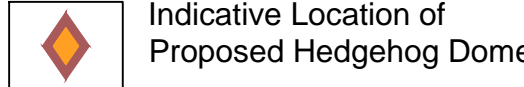
Planting Underneath Pylons to Avoid use of Trees (TBC with National Grid)



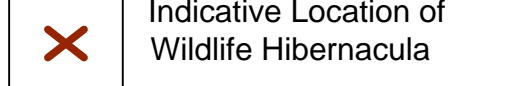
Proposed Translocation of Vegetation (Refer to Annotation)



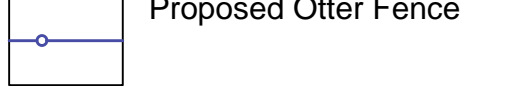
Proposed Bat Boxes and/or Bird Boxes. Refer to annotation



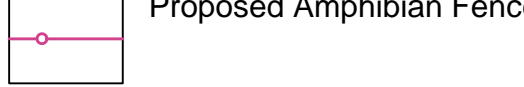
Indicative Location of Proposed Hedgehog Domes



Indicative Location of Wildlife Hibernacula



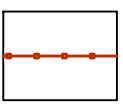
Proposed Otter Fence



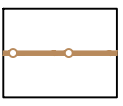
Proposed Amphibian Fence



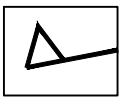
Proposed Ecological Pond



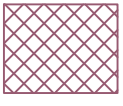
Proposed Acoustic Fence



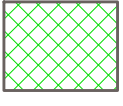
Proposed Closeboard Timber Screening Fence



Illustrative Cross Section (Refer to Drawings 011-020)



Proposed Native Bulb Planting

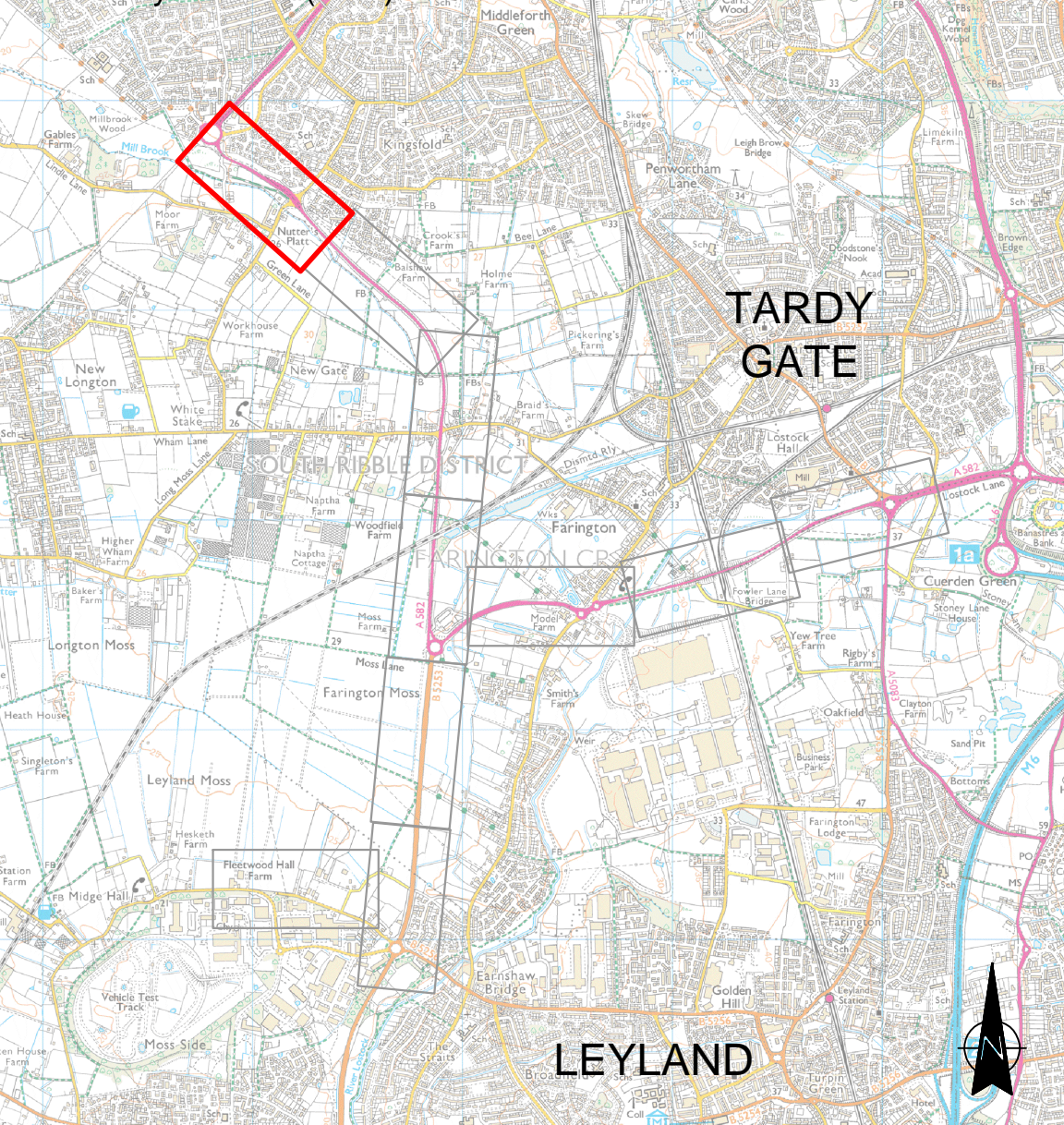


Proposed Native Shrub Planting

Notes

Drawings are to be read in conjunction with the Environmental Statement, Tree Protection Plans and Cross Section drawings.

Sheet Layout Plan (NTS)



P03	03.06.19	Public Consultation	GD	CR
P02	20.05.19	Draft Second Issue	GD	CR
P01	22.03.19	Draft First Issue	GD	CR
No.	DATE:	AMENDMENT DETAILS:	DRN BY:	CHK BY:

REVISIONS

Lancashire
County
Council



ATKINS

Member of the SNC-Lavalin Group



CITY DEAL
Preston, South Ribble & Lancashire

City Deal Delivery Team

PROJECT TITLE:

A582 Dualling

DRAWING TITLE:

Proposed Environmental
Masterplan

DRAWING No.

LCC5161943-ATK-ENV-XX-DR-L-001

SCALE @ A1

1:1000

PROJECT No.

CLM02

DATE:

DRAWN BY:

CHECKED BY:

SHEET No.

REVISION:

22.03.19

GD

CR

1 / 10

P03