

- Key**
- Site Boundary
 - Existing woodland to be retained
 - Existing trees/groups of trees to be removed
 - Existing hedgerow to be removed/translocated
 - PRoW
 - Sustrans route
 - River Nene tributary
 - Proposed taller trees planted to create bat 'hop-over'
 - Proposed hedgerow tree
 - Proposed semi natural broadleaf woodland
 - Potential translocated hedgerow or hedgerow planting
 - Proposed attenuation and flood compensation basins
 - Proposed reedbed/floodplain marsh
 - Proposed pedestrian crossing point
 - Proposed amenity grassland
 - Proposed lowland meadow grassland

Lowland Meadow Grassland mix

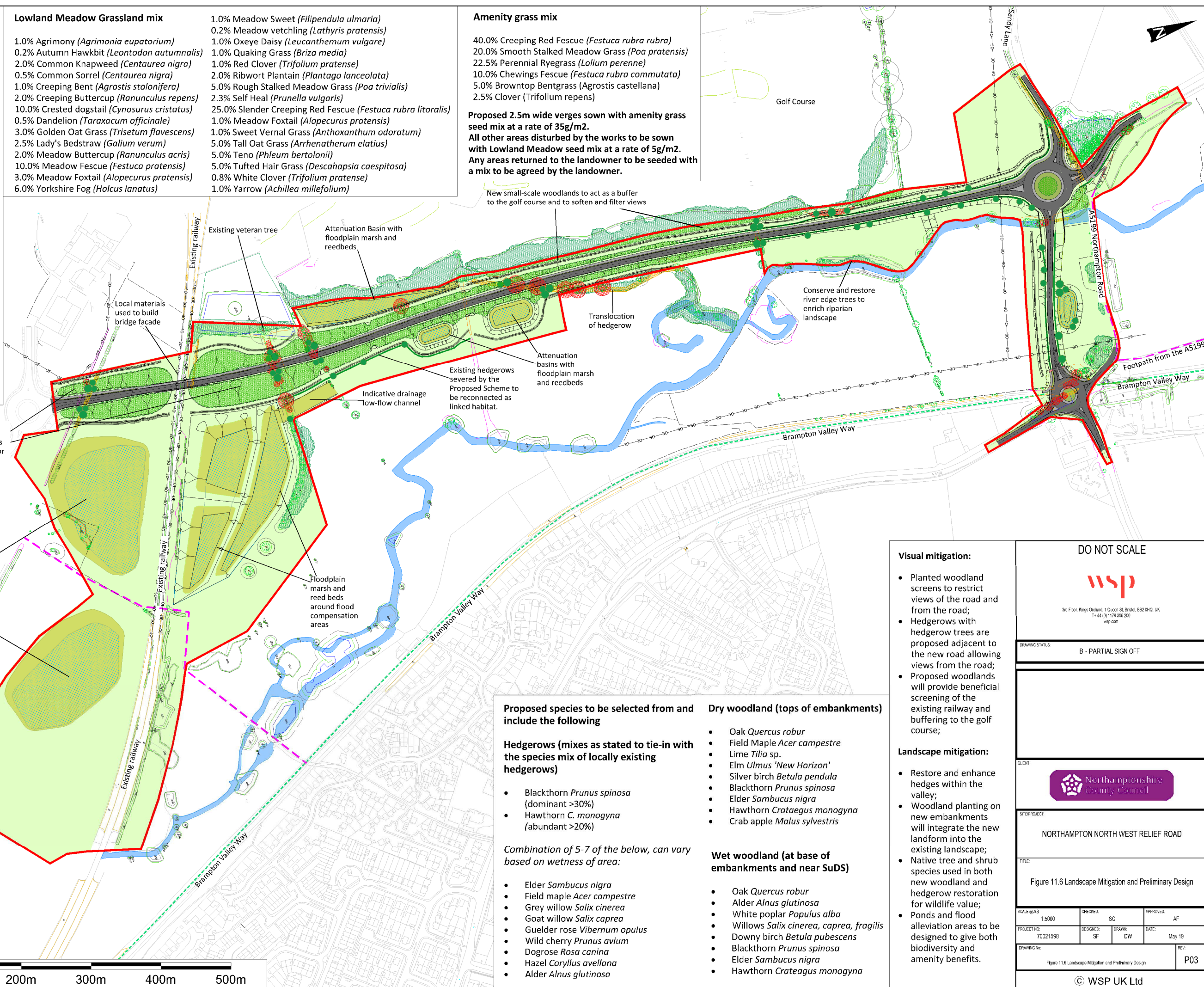
- 1.0% Agrimony (*Agrimonia eupatoria*)
- 0.2% Autumn Hawkbit (*Leontodon autumnalis*)
- 2.0% Common Knapweed (*Centaurea nigra*)
- 0.5% Common Sorrel (*Centaurea nigra*)
- 1.0% Creeping Bent (*Agrostis stolonifera*)
- 2.0% Creeping Buttercup (*Ranunculus repens*)
- 10.0% Crested dogstail (*Cynosurus cristatus*)
- 0.5% Dandelion (*Taraxacum officinale*)
- 3.0% Golden Oat Grass (*Trisetum flavescens*)
- 2.5% Lady's Bedstraw (*Galium verum*)
- 2.0% Meadow Buttercup (*Ranunculus acris*)
- 10.0% Meadow Fescue (*Festuca pratensis*)
- 3.0% Meadow Foxtail (*Alopecurus pratensis*)
- 6.0% Yorkshire Fog (*Holcus lanatus*)

- 1.0% Meadow Sweet (*Filipendula ulmaria*)
- 0.2% Meadow vetchling (*Lathyrus pratensis*)
- 1.0% Oxeye Daisy (*Leucanthemum vulgare*)
- 1.0% Quaking Grass (*Briza media*)
- 1.0% Red Clover (*Trifolium pratense*)
- 2.0% Ribwort Plantain (*Plantago lanceolata*)
- 5.0% Rough Stalked Meadow Grass (*Poa trivialis*)
- 2.3% Self Heal (*Prunella vulgaris*)
- 25.0% Slender Creeping Red Fescue (*Festuca rubra litoralis*)
- 1.0% Meadow Foxtail (*Alopecurus pratensis*)
- 1.0% Sweet Vernal Grass (*Anthoxanthum odoratum*)
- 5.0% Tall Oat Grass (*Arrhenatherum elatius*)
- 5.0% Teno (*Phleum bertolonii*)
- 5.0% Tufted Hair Grass (*Deschampsia caespitosa*)
- 0.8% White Clover (*Trifolium pratense*)
- 1.0% Yarrow (*Achillea millefolium*)

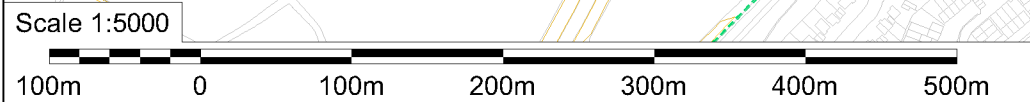
Amenity grass mix

- 40.0% Creeping Red Fescue (*Festuca rubra rubra*)
- 20.0% Smooth Stalked Meadow Grass (*Poa pratensis*)
- 22.5% Perennial Ryegrass (*Lolium perenne*)
- 10.0% Chewings Fescue (*Festuca rubra commutata*)
- 5.0% Browntop Bentgrass (*Agrostis castellana*)
- 2.5% Clover (*Trifolium repens*)

Proposed 2.5m wide verges sown with amenity grass seed mix at a rate of 35g/m². All other areas disturbed by the works to be sown with Lowland Meadow seed mix at a rate of 5g/m². Any areas returned to the landowner to be seeded with a mix to be agreed by the landowner.



File Name: I:\E:\70021598 - NORTHAMPTON NW RELIEF ROAD LABELS AND DRAWINGS\LANDSCAPE MITIGATION AND PRELIMINARY DESIGN\FIGURE 12 LANDSCAPE MITIGATION AND PRELIMINARY DESIGN DRAFT ARCHITECTURE\DRAWING MITIGATION AND PRELIMINARY DESIGN.DWG, printed on 26 May 2019 11:53:22, by WSP, Dm



Proposed species to be selected from and include the following

Hedgerows (mixes as stated to tie-in with the species mix of locally existing hedgerows)

- Blackthorn *Prunus spinosa* (dominant >30%)
- Hawthorn *C. monogyna* (abundant >20%)

Combination of 5-7 of the below, can vary based on wetness of area:

- Elder *Sambucus nigra*
- Field maple *Acer campestre*
- Grey willow *Salix cinerea*
- Goat willow *Salix caprea*
- Guelder rose *Viburnum opulus*
- Wild cherry *Prunus avium*
- Dogrose *Rosa canina*
- Hazel *Coryllus avellana*
- Alder *Alnus glutinosa*

Dry woodland (tops of embankments)

- Oak *Quercus robur*
- Field Maple *Acer campestre*
- Lime *Tilia* sp.
- Elm *Ulmus 'New Horizon'*
- Silver birch *Betula pendula*
- Blackthorn *Prunus spinosa*
- Elder *Sambucus nigra*
- Hawthorn *Crataegus monogyna*
- Crab apple *Malus sylvestris*

Wet woodland (at base of embankments and near SuDS)

- Oak *Quercus robur*
- Alder *Alnus glutinosa*
- White poplar *Populus alba*
- Willows *Salix cinerea, caprea, fragilis*
- Downy birch *Betula pubescens*
- Blackthorn *Prunus spinosa*
- Elder *Sambucus nigra*
- Hawthorn *Crataegus monogyna*

Visual mitigation:

- Planted woodland screens to restrict views of the road and from the road;
- Hedgerows with hedgerow trees are proposed adjacent to the new road allowing views from the road;
- Proposed woodlands will provide beneficial screening of the existing railway and buffering to the golf course;

Landscape mitigation:

- Restore and enhance hedges within the valley;
- Woodland planting on new embankments will integrate the new landform into the existing landscape;
- Native tree and shrub species used in both new woodland and hedgerow restoration for wildlife value;
- Ponds and flood alleviation areas to be designed to give both biodiversity and amenity benefits.

DO NOT SCALE

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DRAWING STATUS: B - PARTIAL SIGN OFF

CLIENT: Northamptonshire County Council

SITE/PROJECT: NORTHAMPTON NORTH WEST RELIEF ROAD

TITLE: Figure 11.6 Landscape Mitigation and Preliminary Design

SCALE @ A3: 1:5000	CHECKED: SC	APPROVED: AF
PROJECT NO: 70021598	DESIGNED: SF	DRAWN: DW
DRAWING NO:	DATE: May 19	REV: P03

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