

A46 Newark Bypass

TR010065/APP/6.2

6.2 Environmental Statement

Figure 2.3 Environmental Masterplan

APFP Regulation 5(2)(a)

Planning Act 2008

Infrastructure Planning (Applications: Prescribed Forms and
Procedure) Regulations 2009

Volume 6

March 2025

Infrastructure Planning

Planning Act 2008

**The Infrastructure Planning
(Applications: Prescribed Forms
and Procedure) Regulations 2009**

A46 Newark Bypass

Development Consent Order 202[x]

ENVIRONMENTAL STATEMENT

Figure 2.3 Environmental Masterplan

Regulation Number:	Regulation 5(2)(a)
Planning Inspectorate Scheme Reference	TR010065
Application Document Reference	TR010065/APP/6.2
Author:	A46 Newark Bypass Project Team, National Highways

Version	Date	Status of Version
Rev 1	April 2024	DCO Application
Rev 2	March 2025	Deadline 7 Submission: Sheet 1 - seed mixes under note 12 of the notes section updated, Sheets 2, 3 and 4 updated to reflect changes in the Network Rail operational land boundary within the Order Limits

LE2.1 WOODLAND INDICATIVE MIX			
BOTANICAL NAME	COMMON NAME	HEIGHT (cm)	DENSITY (m)
TREES (70%)			
<i>Acer campestre</i>	Field Maple	60-80	4m Centres
<i>Alnus glutinosa</i>	Alder	60-80	
<i>Betula pendula</i>	Silver Birch	60-80	
<i>Betula pubescens</i>	Downy Birch	60-80	
<i>Carpinus betulus</i>	Hornbeam	60-80	
<i>Fagus sylvatica</i>	Beech	60-80	
<i>Pinus sylvestris</i>	Scots Pine	60-80	
<i>Populus tremula</i>	Aspen	60-80	
<i>Populus nigra</i>	Black Poplar	60-80	
<i>Prunus padus</i>	Bird Cherry	60-80	
<i>Quercus petraea</i>	Sessile Oak	60-80	
<i>Quercus robur</i>	English Oak	60-80	
<i>Salix alba</i>	White Willow	60-80	
<i>Salix caprea</i>	Goat Willow	60-80	
<i>Salix fragilis</i>	Crack Willow	60-80	
<i>Sorbus aria</i>	Whitebeam	60-80	
<i>Sorbus torminalis</i>	Wild Service Tree	60-80	
<i>Tilia cordata</i>	Small-leaved Lime	60-80	
SHRUBS (30%)			
<i>Cornus sanguinea</i>	Dogwood	60-80	1.5m Centres
<i>Corylus avellana</i>	Hazel	60-80	
<i>Crataegus monogyna</i>	Hawthorn	60-80	
<i>Ilex aquifolium</i>	Holly	40-60	
<i>Sambucus nigra</i>	Common Elder	60-80	

LE2.1 INDICATIVE INDIVIDUAL TREES				
BOTANICAL NAME	COMMON NAME	GIRTH (cm)	HEIGHT (cm)	DENSITY (m)
<i>Acer campestre</i>	Field Maple	8-10	250-300	Spot Planted
<i>Acer glabrum</i>	Alder	8-10	250-300	
<i>Carpinus betulus 'Frans'</i>	Hornbeam 'Frans Fontaine'	8-10	250-300	
<i>Aesculus hippocastanum</i>	Horse Chestnut	8-10	200-250	
<i>Fagus sylvatica</i>	Beech	8-10	250-300	
<i>Quercus ilex</i>	Holm Oak	8-10	250-300	
<i>Quercus robur</i>	English Oak	8-10	250-300	
<i>Quercus robur fastigata</i>	Cypress Oak	8-10	250-300	
<i>Prunus x schmittii</i>	Ornamental Hybrid Cherry	8-10	250-300	
<i>Salix alba</i>	White Willow	8-10	250-300	
<i>Salix caprea</i>	Goat Willow	8-10	250-300	
<i>Salix fragilis</i>	Crack Willow	8-10	250-300	
<i>Pinus sylvestris</i>	Scots Pine	N/a	250-300	
<i>Sorbus aucuparia 'Streetwise'</i>	Rowan 'Streetwise'	8-10	250-300	
<i>Tilia cordata</i>	Small-leaved Lime	8-10	250-300	
<i>Tilia cordata 'Greenspire'</i>	Small-leaved Lime 'Greenspire'	8-10	250-300	
<i>Ulmus 'new horizon'</i>	Elm 'New Horizon'	8-10	250-300	

LE6.1 WATER BODIES AND ASSOCIATED PLANTS INDICATIVE MIX			
BOTANICAL NAME	COMMON NAME	DENSITY (m)	
FLOATING AQUATIC PLANTS 500mm-3m DEPTH			
<i>Nuphar lutea</i>	Brandy Bottle Lily	2 per m²	
<i>Nymphaea alba</i>	White Water Lily		
<i>Hydrocharis morsus-ranae</i>	Frogbit		
OXYGENATOR AQUATIC PLANTS			
<i>Potamogeton natans</i>	Broad-leaved Pondweed	5 per m²	
MARGINAL AQUATIC PLANTS UP TO 300mm DEPTH			
<i>Filipendula ulmaria</i>	Meadowsweet	5 per m²	
<i>Lithrum salicaria</i>	Purple Loosestrife		
<i>Myosotis scorpioides</i>	Water Forget-me-not		
<i>Menyanthes aquatica</i>	Water Mint		
EMERGENT AQUATIC PLANTS 100-600mm DEPTH			
<i>Alisma plantago-aquatica</i>	Water Plantain	5 per m²	
<i>Apium nodiflorum</i>	Foal's Watercress		
<i>Butomus umbellatus</i>	Flowering Rush		
<i>Nasturtium aquaticum</i>	Watercress		

LE2.5 NATIVE SPECIES HEDGEROWS WITH TREES INDICATIVE MIX (Double staggered row at 0.4m offset)			
BOTANICAL NAME	COMMON NAME	GIRTH (cm)	HEIGHT (cm)
TREES (70%)			
<i>Acer campestre</i>	Field Maple	8-10	250-300
<i>Alnus glutinosa</i>	Alder	8-10	250-300
<i>Carpinus betulus</i>	Hornbeam	8-10	250-300
<i>Aesculus hippocastanum</i>	Horse Chestnut	8-10	200-250
<i>Fagus sylvatica</i>	Beech	8-10	250-300
<i>Quercus ilex</i>	Holm Oak	8-10	250-300
<i>Quercus robur</i>	English Oak	8-10	250-300
<i>Quercus robur fastigata</i>	Cypress Oak	8-10	250-300
<i>Prunus x schmittii</i>	Ornamental Hybrid Cherry	8-10	250-300
<i>Salix alba</i>	White Willow	8-10	250-300
<i>Salix caprea</i>	Goat Willow	8-10	250-300
<i>Salix fragilis</i>	Crack Willow	8-10	250-300
<i>Pinus sylvestris</i>	Scots Pine	N/a	250-300
<i>Sorbus aucuparia</i>	Rowan	8-10	250-300
<i>Tilia cordata</i>	Small-leaved Lime	8-10	250-300
<i>Tilia cordata</i>	Small-leaved Lime	8-10	250-300
<i>Ulmus 'new horizon'</i>	Elm	8-10	250-300

LE2.6 SHRUBS INDICATIVE MIX			
BOTANICAL NAME	COMMON NAME	HEIGHT (cm)	DENSITY (m)
SHRUBS (100%)			
<i>Cornus sanguinea</i>	Dogwood	60-80	1.5m Centres
<i>Crataegus monogyna</i>	Hawthorn	60-80	
<i>Ligustrum vulgare</i>	Wild Privet	60-80	
<i>Sambucus nigra</i>	Common Elder	60-80	
<i>Viburnum lantana</i>	Wayfaring Tree	60-80	

LE2.7 REED BEDS INDICATIVE MIX			
BOTANICAL NAME	COMMON NAME	DENSITY	
<i>Cirsium palustre</i>	Marsh Thistle	5 per m²	
<i>Juncus effusus</i>	Soft Rush		
<i>Juncus inflexus</i>	Hard Rush		
<i>Iris pseudacorus</i>	Yellow Flag Iris		
<i>Lythrum salicaria</i>	Purple Loosestrife	5 per m²	
<i>Persicaria amphibia</i>	Amphibious Bistort		
<i>Phalaris arundinacea</i>	Reed Canary Grass		
<i>Phragmites australis</i>	Common Reed		

LE2.8 WATER BODIES AND ASSOCIATED PLANTS INDICATIVE MIX			
BOTANICAL NAME	COMMON NAME	DENSITY (m)	
FLOATING AQUATIC PLANTS 500mm-3m DEPTH			
<i>Nuphar lutea</i>	Brandy Bottle Lily	2 per m²	
<i>Nymphaea alba</i>	White Water Lily		
<i>Hydrocharis morsus-ranae</i>	Frogbit		
OXYGENATOR AQUATIC PLANTS			
<i>Potamogeton natans</i>	Broad-leaved Pondweed	5 per m²	
MARGINAL AQUATIC PLANTS UP TO 300mm DEPTH			
<i>Filipendula ulmaria</i>	Meadowsweet	5 per m²	
<i>Lythrum salicaria</i>	Purple Loosestrife		
<i>Myosotis scorpioides</i>	Water Forget-me-not		
<i>Mentha aquatica</i>	Water Mint		
EMERGENT AQUATIC PLANTS 100-600mm DEPTH			
<i>Alisma plantago-aquatica</i>	Water Plantain	5 per m²	
<i>Apium nodiflorum</i>	Fool's Watercress		
<i>Butomus umbellatus</i>	Flowering Rush		
<i>Nasturtium aquaticum</i>	Watercress		

LE2.9 REED BEDS INDICATIVE MIX			
BOTANICAL NAME	COMMON NAME	DENSITY	
<i>Cirsium palustre</i>	Marsh Thistle	5 per m²	
<i>Juncus effusus</i>	Soft Rush		
<i>Juncus inflexus</i>	Hard Rush		
<i>Iris pseudacorus</i>	Yellow Flag Iris		
<i>Lythrum salicaria</i>	Purple Loosestrife	5 per m²	
<i>Persicaria amphibia</i>	Amphibious Bistort		
<i>Phalaris arundinacea</i>	Reed Canary Grass		
<i>Phragmites australis</i>	Common Reed		

LE2.10 WATER BODIES AND ASSOCIATED PLANTS INDICATIVE MIX			
BOTANICAL NAME	COMMON NAME	DENSITY (m)	
FLOATING AQUATIC PLANTS 500mm-3m DEPTH			
<i>Nuphar lutea</i>	Brandy Bottle Lily	2 per m²	
<i>Nymphaea alba</i>	White Water Lily		
<i>Hydrocharis morsus-ranae</i>	Frogbit		
OXYGENATOR AQUATIC PLANTS			
<i>Potamogeton natans</i>	Broad-leaved Pondweed	5 per m²	
MARGINAL AQUATIC PLANTS UP TO 300mm DEPTH			
<i>Filipendula ulmaria</i>	Meadowsweet	5 per m²	
<i>Lythrum salicaria</i>	Purple Loosestrife		
<i>Myosotis scorpioides</i>	Water Forget-me-not		
<i>Mentha aquatica</i>	Water Mint		
EMERGENT AQUATIC PLANTS 100-600mm DEPTH			
<i>Alisma plantago-aquatica</i>	Water Plantain	5 per m²	
<i>Apium nodiflorum</i>	Fool's Watercress		
<i>Butomus umbellatus</i>	Flowering Rush		
<i>Nasturtium aquaticum</i>	Watercress		

LE2.11 REED BEDS INDICATIVE MIX			
BOTANICAL NAME	COMMON NAME	DENSITY	
<i>Cirsium palustre</i>	Marsh Thistle	5 per m²	
<i>Juncus effusus</i>	Soft Rush		
<i>Juncus inflexus</i>	Hard Rush		
<i>Iris pseudacorus</i>	Yellow Flag Iris		
<i>Lythrum salicaria</i>	Purple Loosestrife	5 per m²	
<i>Persicaria amphibia</i>	Amphibious Bistort		
<i>Phalaris arundinacea</i>	Reed Canary Grass		
<i>Phragmites australis</i>	Common Reed		

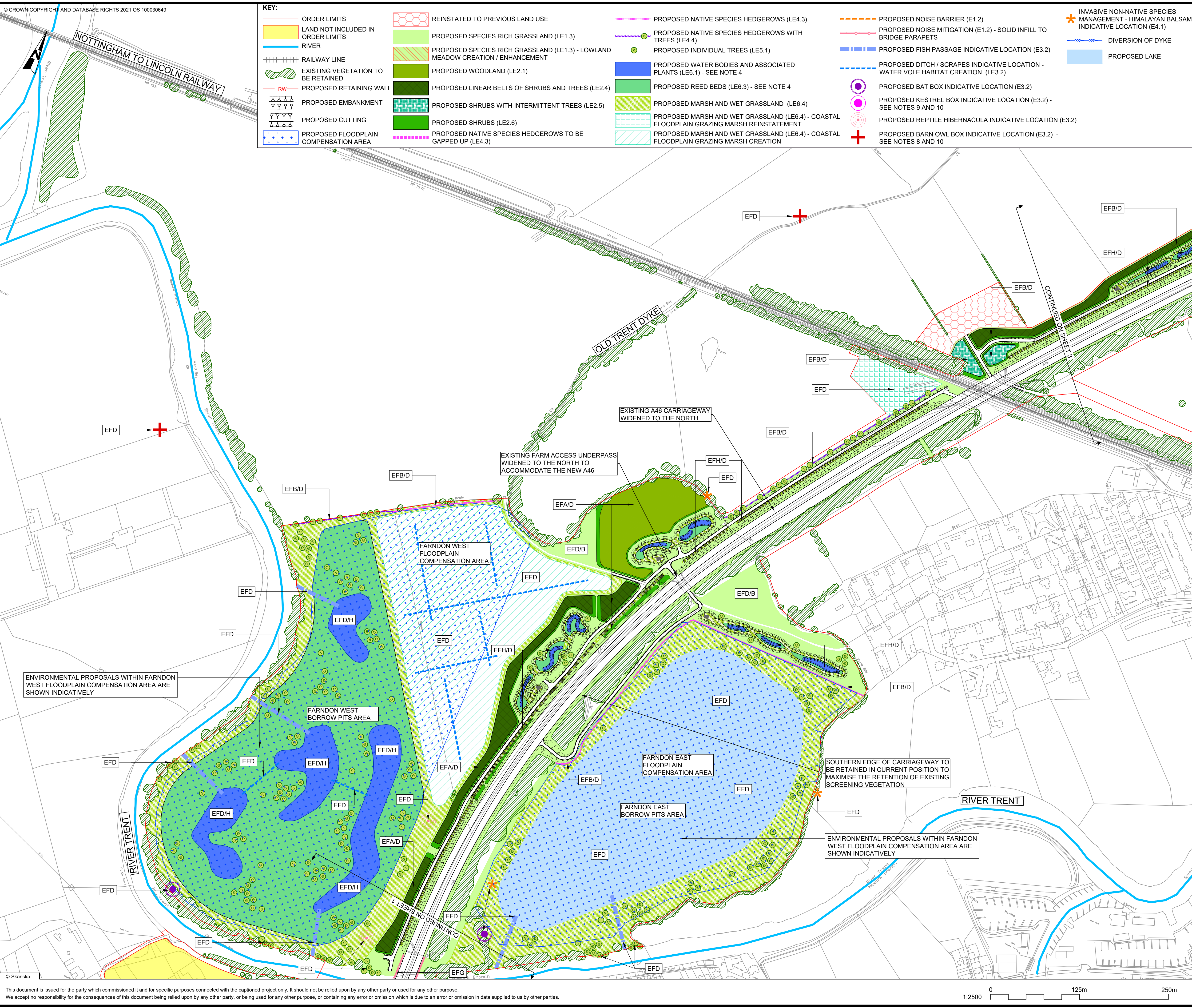
LE2.12 WATER BODIES AND ASSOCIATED PLANTS INDICATIVE MIX			
BOTANICAL NAME	COMMON NAME	DENSITY (m)	
FLOATING AQUATIC PLANTS 500mm-3m DEPTH			
<i>Nuphar lutea</i>	Brandy Bottle Lily	2 per m²	
<i>Nymphaea alba</i>	White Water Lily		
<i>Hydrocharis morsus-ranae</i>	Frogbit		
OXYGENATOR AQUATIC PLANTS			
<i>Potamogeton natans</i>	Broad-leaved Pondweed	5 per m²	
MARGINAL AQUATIC PLANTS UP TO 300mm DEPTH			
<i>Filipendula ulmaria</i>	Meadowsweet	5 per m²	
<i>Lythrum salicaria</i>	Purple Loosestrife		
<i>Myosotis scorpioides</i>	Water Forget-me-not		
<i>Mentha aquatica</i>	Water Mint		
EMERGENT AQUATIC PLANTS 100-600mm DEPTH			
<i>Alisma plantago-aquatica</i>	Water Plantain	5 per m²	
<i>Apium nodiflorum</i>	Fool's Watercress		
<i>Butomus umbellatus</i>	Flowering Rush		
<i>Nasturtium aquaticum</i>	Watercress		

LE2.13 REED BEDS INDICATIVE MIX			
BOTANICAL NAME	COMMON NAME	DENSITY	
<i>Cirsium palustre</i>	Marsh Thistle	5 per m²	
<i>Juncus effusus</i>	Soft Rush		
<i>Juncus inflexus</i>	Hard Rush		
<i>Iris pseudacorus</i>	Yellow Flag Iris		
<i>Lythrum salicaria</i>	Purple Loosestrife	5 per m²	
<i>Persicaria amphibia</i>	Amphibious Bistort		
<i>Phalaris arundinacea</i>	Reed Canary Grass		
<i>Phragmites australis</i>	Common Reed		

LE2.14 WATER BODIES AND ASSOCIATED PLANTS INDICATIVE MIX			
BOTANICAL NAME	COMMON NAME	DENSITY (m)	
FLOATING AQUATIC PLANTS 500mm-3m DEPTH			
<i>Nuphar lutea</i>	Brandy Bottle Lily	2 per m²	
<i>Nymphaea alba</i>	White Water Lily		
<i>Hydrocharis morsus-ranae</i>	Frogbit		
OXYGENATOR AQUATIC PLANTS			
<i>Potamogeton natans</i>	Broad-leaved Pondweed	5 per m²	
MARGINAL AQUATIC PLANTS UP TO 300mm DEPTH			
<i>Filipendula ulmaria</i>	Meadowsweet	5 per m²	
<i>Lythrum salicaria</i>	Purple Loosestrife		
<i>Myosotis scorpioides</i>	Water Forget-me-not		
<i>Mentha aquatica</i>	Water Mint		
EMERGENT AQUATIC PLANTS 100-600mm DEPTH			
<i>Alisma plantago-aquatica</i>	Water Plantain	5 per m²	
<i>Apium nodiflorum</i>	Fool's Watercress		
<i>Butomus umbellatus</i>	Flowering Rush		
<i>Nasturtium aquaticum</i>	Watercress		

LE2.15 REED BEDS INDICATIVE MIX			
BOTANICAL NAME	COMMON NAME	DENSITY	
<i>Cirsium palustre</i>	Marsh Thistle	5 per m²	
<i>Juncus effusus</i>	Soft Rush		
<i>Juncus inflexus</i>	Hard Rush		
<i>Iris pseudacorus</i>	Yellow Flag Iris		
<i>Lythrum salicaria</i>	Purple Loosestrife	5 per m²	
<i>Persicaria amphibia</i>	Amphibious Bistort		
<i>Phalaris arundinacea</i>	Reed Canary Grass		
<i>Phragmites australis</i>	Common Reed		

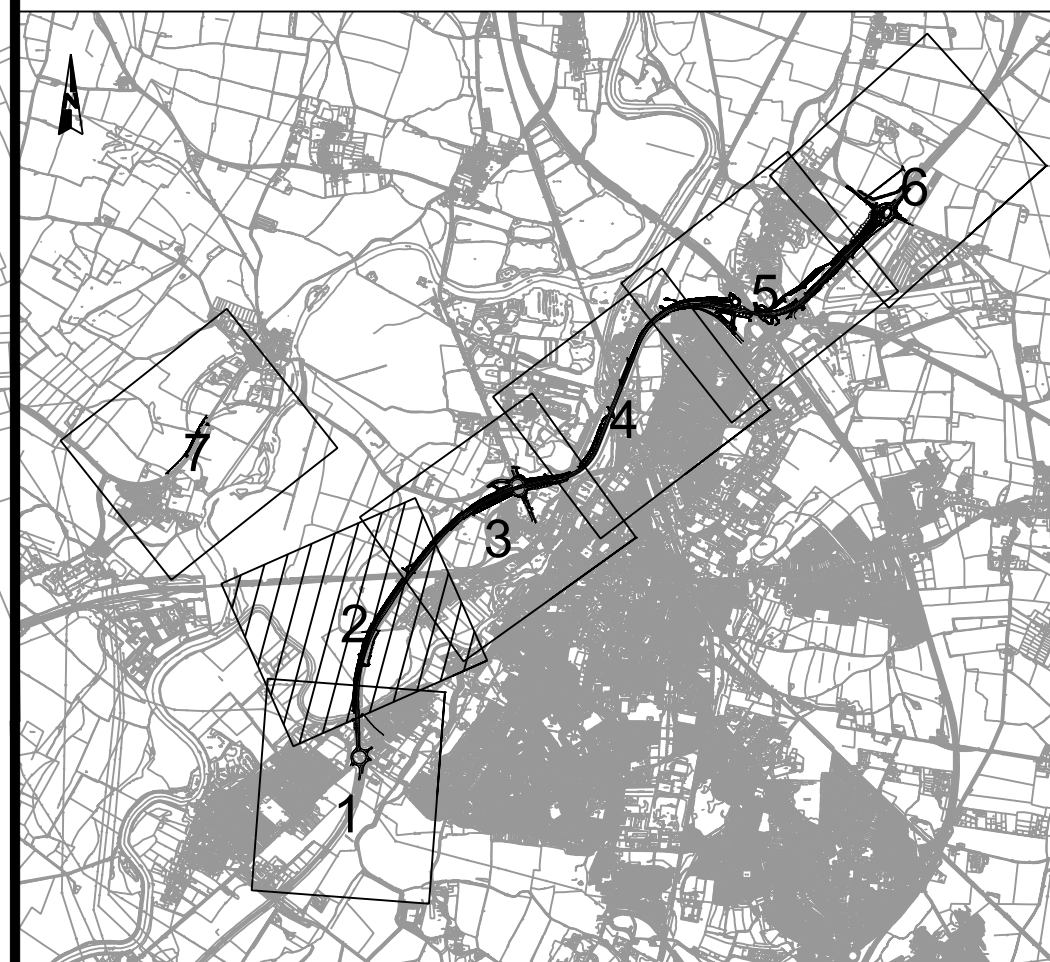
LE2.16 WATER BODIES AND ASSOCIATED PLANTS INDICATIVE MIX			
BOTANICAL NAME	COMMON NAME	DENSITY (m)	
FLOATING AQUATIC PLANTS 500mm-3m DEPTH			
<i>Nuphar lutea</i>	Brandy Bottle Lily	2 per m²	
<i>Nymphaea alba</i>	White Water Lily		
<i>Hydrocharis morsus-ranae</i>	Frogbit		



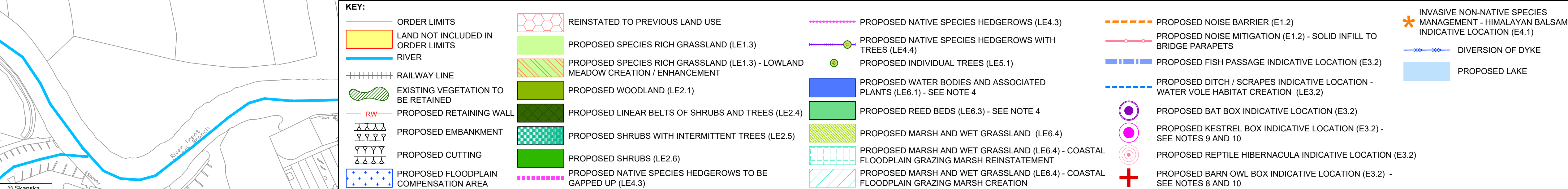
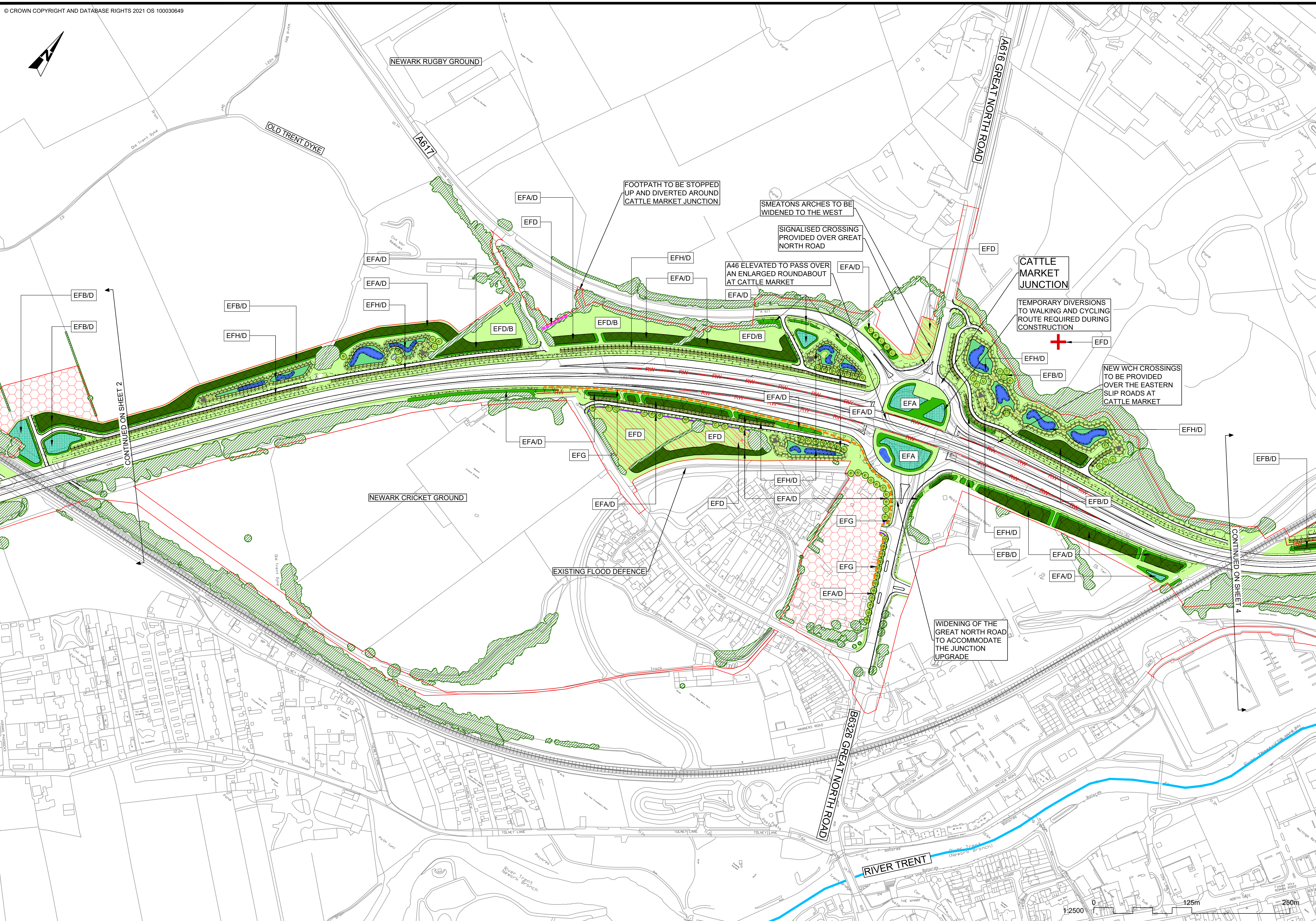
- NOTES**
1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE DRAFT DEVELOPMENT CONSENT ORDER AND ACCOMPANYING APPLICATION DOCUMENTATION. (TR010065/APP/3.1).
 2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE FIRST ITERATION ENVIRONMENTAL MANAGEMENT PLAN (TR010065/APP/6.5).
 3. DO NOT SCALE FROM THIS DRAWING. USE ONLY PRINTED DIMENSIONS.
 4. ALL DIMENSIONS ARE IN METRES UNLESS DEFINED OTHERWISE.
 5. PROPOSED REED BEDS AND WATER BODIES AND ASSOCIATED PLANTS - EXTENTS TO BE REFINED DURING DETAILED DESIGN.
 6. PLANTING AND SEEDING MIXES ARE INDICATIVE ONLY AND WILL BE REFINED DURING DETAILED DESIGN, INCLUDING THE PROVISION OF SUB MIXES REFLECTIVE OF LOCAL CHARACTER, HABITAT AND GROWING CONDITIONS (i.e. POPLAR AND WILLOW SPECIES ONLY TO BE USED AWAY FROM CARRIAGEWAY).
 7. FOR LANDSCAPE AND ENVIRONMENTAL ELEMENT CODES (i.e. LE1.1 AND E1.1) SEE DESIGN MANUAL FOR ROADS AND BRIDGES (DMRB) LD 117 LANDSCAPE DESIGN, TABLES 4.2B AND 4.2C.
 8. PROTECTED SPECIES MITIGATION: TWO BARN OWL BOXES WILL BE INSTALLED AT EACH INDICATIVE LOCATION WITHIN APPROXIMATELY 100m - 150m OF EACH OTHER (i.e. ONE TERRITORY).
 9. PROTECTED SPECIES MITIGATION: TWO KESTREL BOXES WILL BE INSTALLED WITHIN APPROXIMATELY 100m - 150m OF EACH OTHER (i.e. ONE TERRITORY).
 10. PROTECTED SPECIES MITIGATION: PAIRED KESTREL BOXES AND PAIRED BARN OWL BOXES WILL BE LOCATED APPROXIMATELY 500m - 1000m BETWEEN TERRITORIES OF THE SAME SPECIES (NEARER IF CLOSURE OF CONFIRMED NEST SITES ARE CLOSER THAN 500m).
 11. NOISE MITIGATION: WHERE EXISTING ROADS WOULD BE MODIFIED TO CONNECT WITH NEW SECTIONS OF ROAD, OR WHERE IMPROVEMENTS TO ACCOMMODATE FUTURE TRAFFIC GROWTH ARE REQUIRED, A NEW SURFACE COURSE WILL BE APPLIED. LOW NOISE SURFACING (E1.1) WILL BE PROVIDED ALONG THE PROPOSED DUAL CARRIAGEWAY, SLIP ROADS AND THE FRIENDLY FARMER LINK, WHERE EXISTING PAVEMENTS ARE RETAINED ALONG THE EXISTING A46 THEN THESE WILL BE RE-SURFACED WITH LOW NOISE SURFACING (E1.1) IF NOT ALREADY PRESENT.

REFERENCE	ENVIRONMENTAL FUNCTION
EFA	VISUAL SCREENING
EFB	LANDSCAPE INTEGRATION
EFC	ENHANCING THE BUILT ENVIRONMENT
EFD	NATURE CONSERVATION AND BIODIVERSITY
EFE	VISUAL AMENITY
EFF	HERITAGE
EFG	AUDITORY AMENITY
EFH	WATER QUALITY

Source: DMRB LD 117 Landscape Design



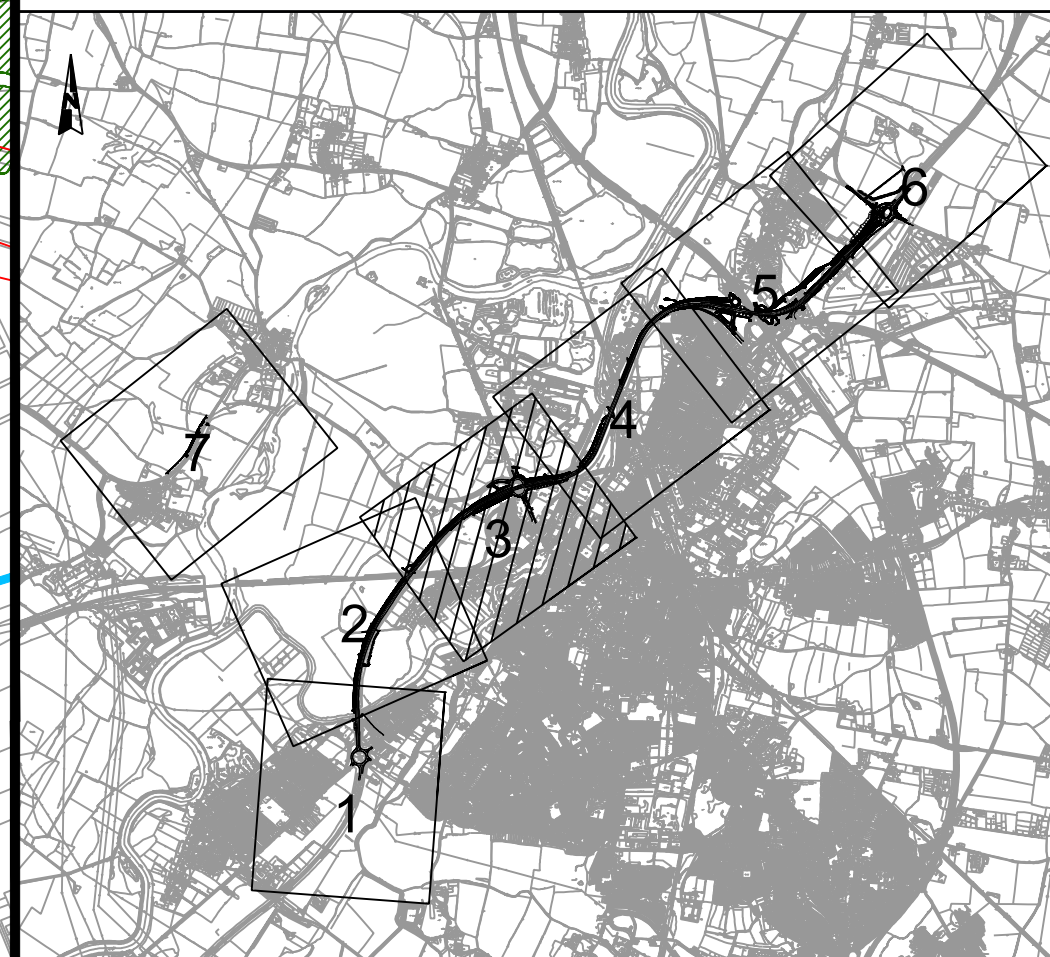
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REV.	DATE	AMENDMENT DETAILS	ORIG	CHK'D	APP'D
CLIENT					
national highways					
PURPOSE OF ISSUE					
DCO APPLICATION					
DEVELOPMENT CONSENT ORDER NUMBER					
TR010065					
PROJECT TITLE					
A46 NEWARK BYPASS					
DRAWING TITLE					
FIGURE 2.3 ENVIRONMENTAL MASTERPLAN SHEET 2 OF 7					
ORIGINAL SIZE			SCALE		
A1			1:2500		
DRAWING NUMBER		ORIGINATOR	VOLUME	PROJECT REF NO.	
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CONWI_CONW		DR	LS	REVISION	
LOCATION		TYPE	ROLE	C02	
		NUMBER			



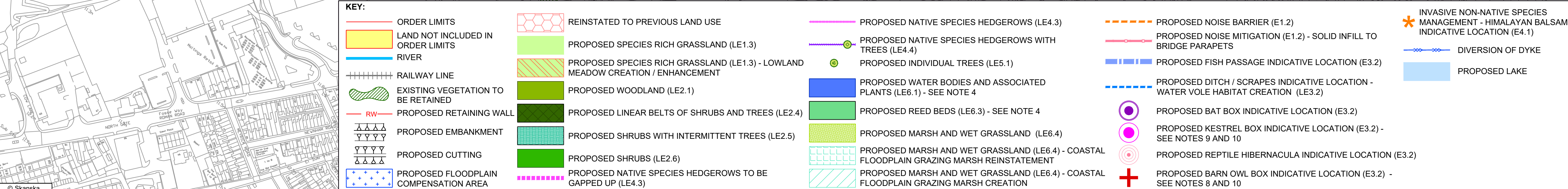
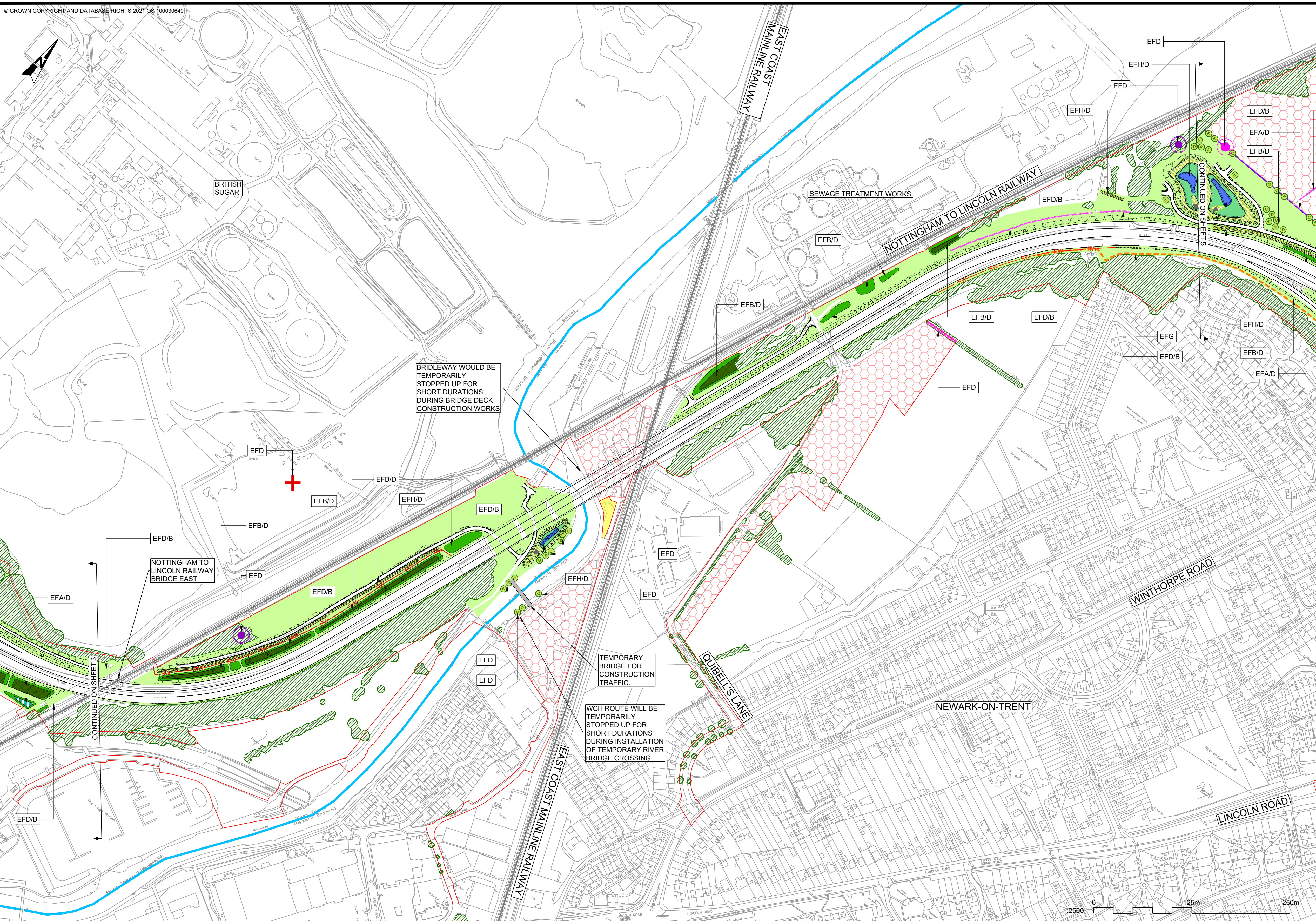
- NOTES**
1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE DRAFT DEVELOPMENT CONSENT ORDER AND ACCOMPANYING APPLICATION DOCUMENTATION. (TR010065/APP3.1).
 2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE FIRST ITERATION ENVIRONMENTAL MANAGEMENT PLAN (TR010065/APP3.5).
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 6. PLANTING AND SEEDING MIXES ARE INDICATIVE ONLY AND WILL BE REFINED DURING DETAILED DESIGN, INCLUDING THE PROVISION OF SUB MIXES REFLECTIVE OF LOCAL CHARACTER, HABITAT AND GROWING CONDITIONS (i.e. POPLAR AND WILLOW SPECIES ONLY TO BE USED AWAY FROM CARRIAGEWAY).
 7. FOR LANDSCAPE AND ENVIRONMENTAL ELEMENT CODES (i.e. LE1.1 AND E1.1) SEE DESIGN MANUAL FOR ROADS AND BRIDGES (DMRB) LD 117 LANDSCAPE DESIGN, TABLES 4.2B AND 4.2C.
 8. PROTECTED SPECIES MITIGATION: TWO BARN OWL BOXES WILL BE INSTALLED AT EACH INDICATIVE LOCATION WITHIN APPROXIMATELY 100m - 150m OF EACH OTHER (i.e. ONE TERRITORY).
 9. PROTECTED SPECIES MITIGATION: TWO KESTREL BOXES WILL BE INSTALLED WITHIN APPROXIMATELY 100m - 150m OF EACH OTHER (i.e. ONE TERRITORY).
 10. PROTECTED SPECIES MITIGATION: PAIRED KESTREL BOXES AND PAIRED BARN OWL BOXES WILL BE LOCATED APPROXIMATELY 500m - 1000m BETWEEN TERRITORIES OF THE SAME SPECIES (NEARER IF CLOSURE OF CONFIRMED NEST SITES ARE CLOSER THAN 500m).
 11. NOISE MITIGATION: WHERE EXISTING ROADS WOULD BE MODIFIED TO CONNECT WITH NEW SECTIONS OF ROAD, OR WHERE IMPROVEMENTS TO ACCOMMODATE FUTURE TRAFFIC GROWTH ARE REQUIRED, A NEW SURFACE COURSE WILL BE APPLIED. LOW NOISE SURFACING (E1.1) WILL BE PROVIDED ALONG THE PROPOSED DUAL CARRIAGEWAY, SLIP ROADS AND THE FRIENDLY FARMER LINK, WHERE EXISTING PAVEMENTS ARE RETAINED ALONG THE EXISTING A46 THEN THESE WILL BE RE-SURFACED WITH LOW NOISE SURFACING (E1.1) IF NOT ALREADY PRESENT.

REFERENCE	ENVIRONMENTAL FUNCTION
EFA	VISUAL SCREENING
EFB	LANDSCAPE INTEGRATION
EFC	ENHANCING THE BUILT ENVIRONMENT
EFD	NATURE CONSERVATION AND BIODIVERSITY
EFE	VISUAL AMENITY
EFF	HERITAGE
EFG	AUDITORY AMENITY
EFH	WATER QUALITY

Source: DMRB LD 117 Landscape Design



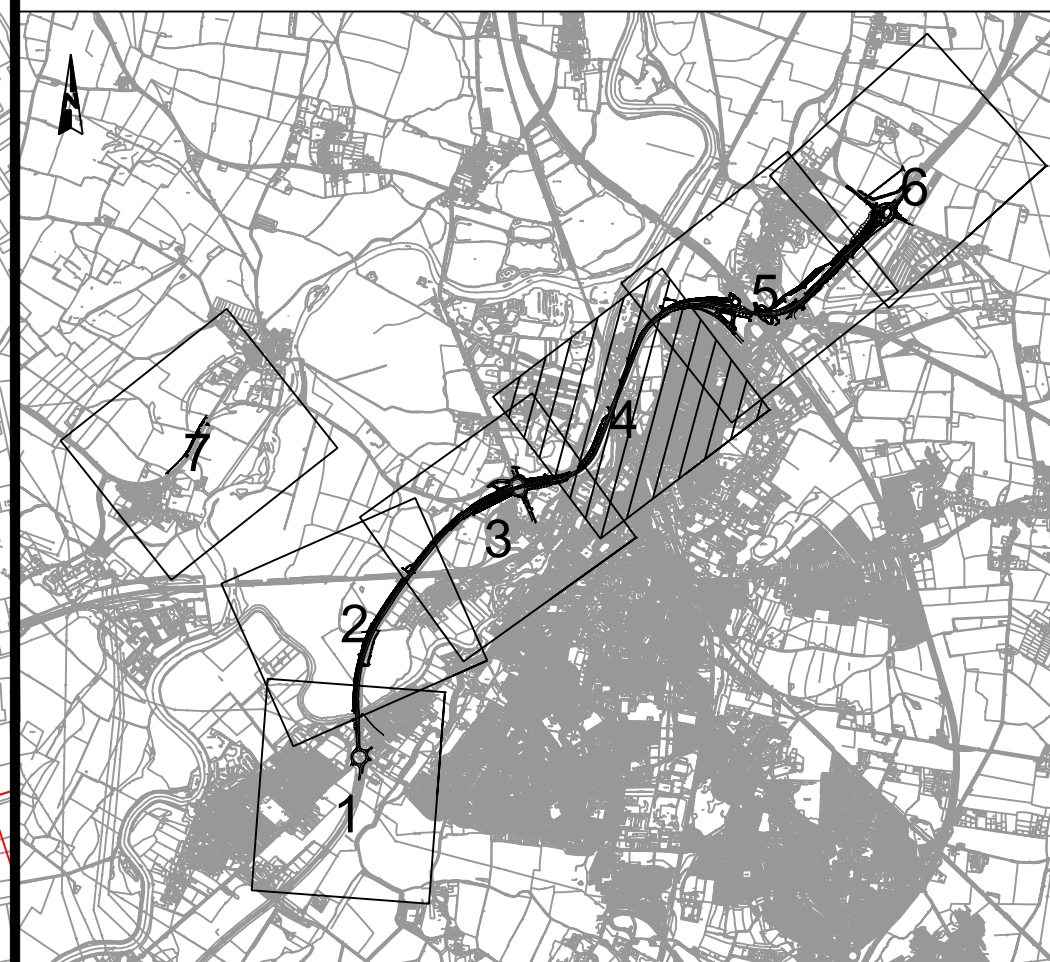
C02	07/03/25	Updated due to Network Rail Land Boundary Change	PFMDC	JB	HF
REV.	DATE	AMENDMENT DETAILS	ORIG	CHK'D	APP'D
CLIENT					
PURPOSE OF ISSUE					
DCO APPLICATION					
DEVELOPMENT CONSENT ORDER NUMBER					
TR010065					
PROJECT TITLE					
A46 NEWARK BYPASS					
DRAWING TITLE					
FIGURE 2.3 ENVIRONMENTAL MASTERPLAN SHEET 3 OF 7					
ORIGINAL SIZE			SCALE		
A1			1:2500		
DRAWING NUMBER		ORIGINATOR	VOLUME	PROJECT REF NO.	
HE551478		SKAG	ELS	HE551478	
CONWI_CONW		DR	LS	REVISION	
LOCATION		TYPE	ROLE	C02	
		NUMBER			



- NOTES**
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REFERENCE	ENVIRONMENTAL FUNCTION
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EFC	ENHANCING THE BUILT ENVIRONMENT
EFD	NATURE CONSERVATION AND BIODIVERSITY
EFE	VISUAL AMENITY
EFF	HERITAGE
EFG	AUDITORY AMENITY
EFH	WATER QUALITY

Source: DMRB LD 117 Landscape Design



C02	07/03/25	Updated due to Network Rail Land Boundary Change	PFMDC	JB	HF
REV.	DATE	AMENDMENT DETAILS	ORIG	CHK'D	APP'D

CLIENT
 national highways

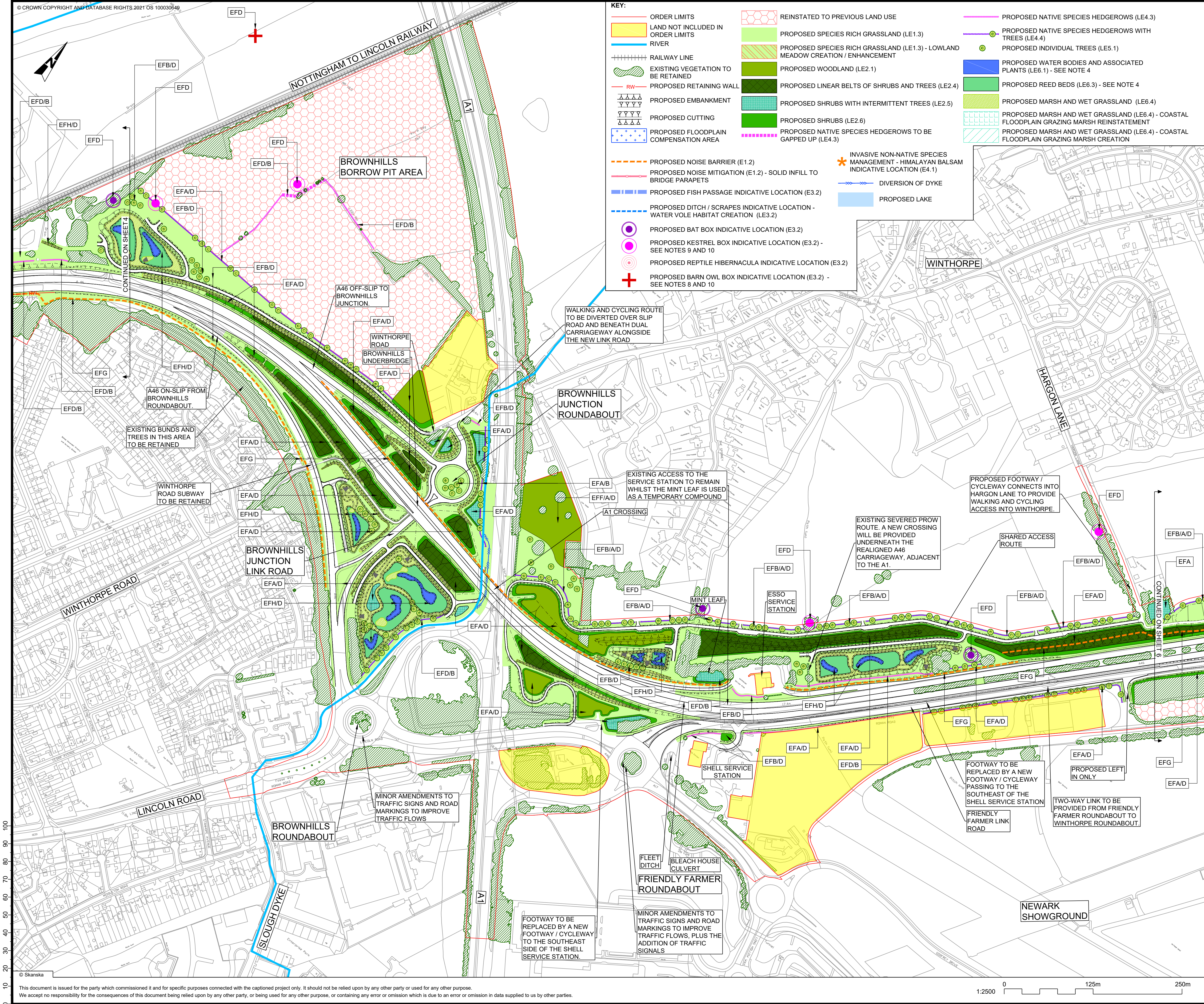
PURPOSE OF ISSUE
DCO APPLICATION

DEVELOPMENT CONSENT ORDER NUMBER
TR010065

PROJECT TITLE
A46 NEWARK BYPASS

DRAWING TITLE
FIGURE 2.3
ENVIRONMENTAL MASTERPLAN
SHEET 4 OF 7

ORIGINAL SIZE	A1	SCALE	1:2500	PROJECT REF NO.	HE551478
DRAWING NUMBER	HE PIN	ORIGINATOR	VOLUME	REVISION	
HE551478	SKAG	ELS			
CONWI_CONW	DR	LS	03004		
LOCATION	TYPE	ROLE	NUMBER		



KEY:

ORDER LIMITS

LAND NOT INCLUDED IN ORDER LIMITS

RIVER

RAILWAY LINE

EXISTING VEGETATION TO BE RETAINED

PROPOSED RETAINING WALL

PROPOSED EMBANKMENT

PROPOSED CUTTING

PROPOSED FLOODPLAIN COMPENSATION AREA

PROPOSED NOISE BARRIER (E1.2)

PROPOSED NOISE MITIGATION (E1.2) - SOLID INFILL TO BRIDGE PARAPETS

PROPOSED FISH PASSAGE INDICATIVE LOCATION (E3.2)

PROPOSED DITCH / SCRAPES INDICATIVE LOCATION - WATER VOLE HABITAT CREATION (LE3.2)

PROPOSED BAT BOX INDICATIVE LOCATION (E3.2)

PROPOSED KESTREL BOX INDICATIVE LOCATION (E3.2) - SEE NOTES 9 AND 10

PROPOSED REPTILE HIBERNACULA INDICATIVE LOCATION (E3.2)

PROPOSED BARN OWL BOX INDICATIVE LOCATION (E3.2) - SEE NOTES 8 AND 10

REINSTATED TO PREVIOUS LAND USE

PROPOSED SPECIES RICH GRASSLAND (LE1.3)

PROPOSED SPECIES RICH GRASSLAND (LE1.3) - LOWLAND MEADOW CREATION / ENHANCEMENT

PROPOSED WOODLAND (LE2.1)

PROPOSED LINEAR BELTS OF SHRUBS AND TREES (LE2.4)

PROPOSED SHRUBS WITH INTERMITTENT TREES (LE2.5)

PROPOSED SHRUBS (LE2.6)

PROPOSED NATIVE SPECIES HEDGEROWS TO BE GAPPED UP (LE4.3)

INVASIVE NON-NATIVE SPECIES MANAGEMENT - HIMALAYAN BALSAM INDICATIVE LOCATION (E4.1)

DIVERSION OF DYKE

PROPOSED LAKE

PROPOSED NATIVE SPECIES HEDGEROWS (LE4.3)

PROPOSED NATIVE SPECIES HEDGEROWS WITH TREES (LE4.4)

PROPOSED INDIVIDUAL TREES (LE5.1)

PROPOSED WATER BODIES AND ASSOCIATED PLANTS (LE6.1) - SEE NOTE 4

PROPOSED REED BEDS (LE6.3) - SEE NOTE 4

PROPOSED MARSH AND WET GRASSLAND (LE6.4)

PROPOSED MARSH AND WET GRASSLAND (LE6.4) - COASTAL FLOODPLAIN GRAZING MARSH REINSTATEMENT

PROPOSED MARSH AND WET GRASSLAND (LE6.4) - COASTAL FLOODPLAIN GRAZING MARSH CREATION

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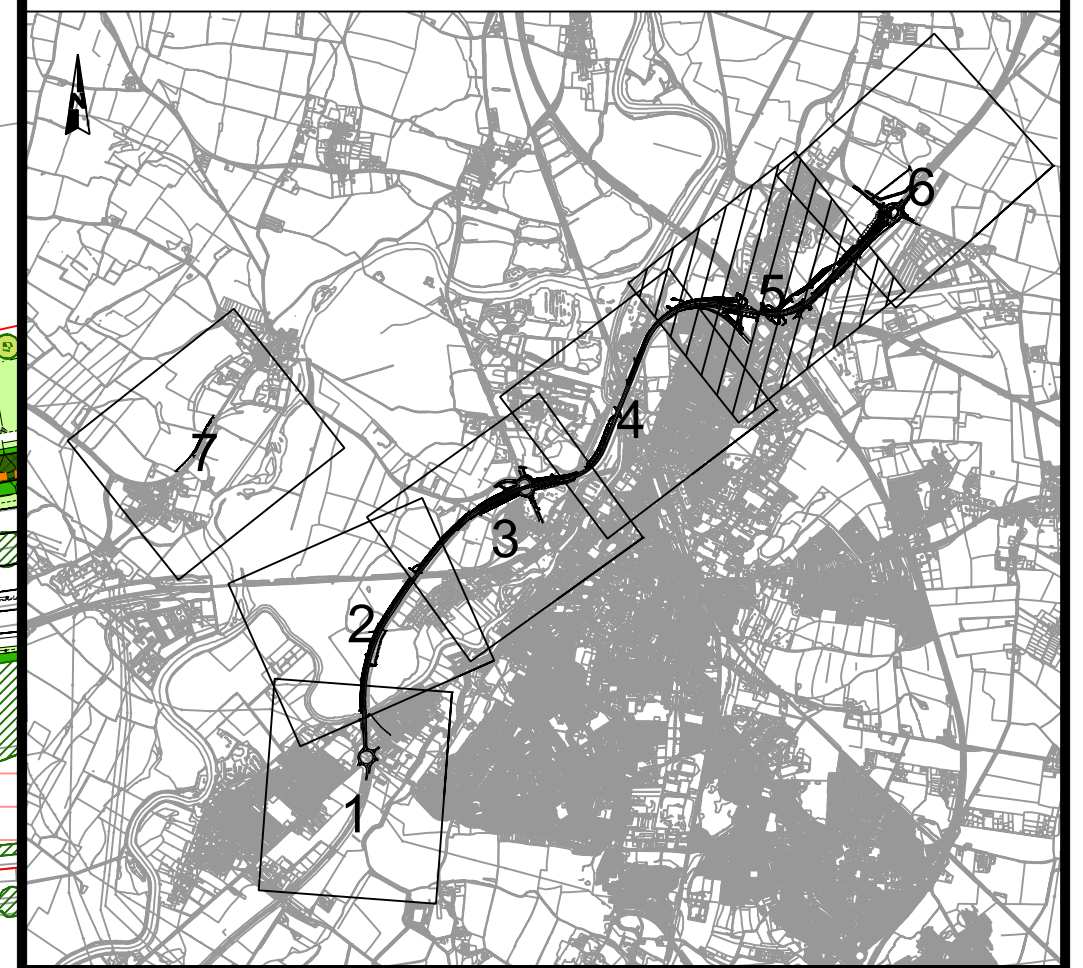
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REFERENCE	ENVIRONMENTAL FUNCTION
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EFF	HERITAGE
EFG	AUDITORY AMENITY
EFH	WATER QUALITY

Source: DMRB LD 117 Landscape Design



C0106/03/24DCO APPLICATIONPFMDCCUHF

REV. DATEAMENDMENT DETAILSORIGCHK'DAPP'D

CLIENT

PURPOSE OF ISSUE

DCO APPLICATION

DEVELOPMENT CONSENT ORDER NUMBER

TR010065

DRAWING TITLE

FIGURE 2.3 ENVIRONMENTAL MASTERPLAN SHEET 5 OF 7

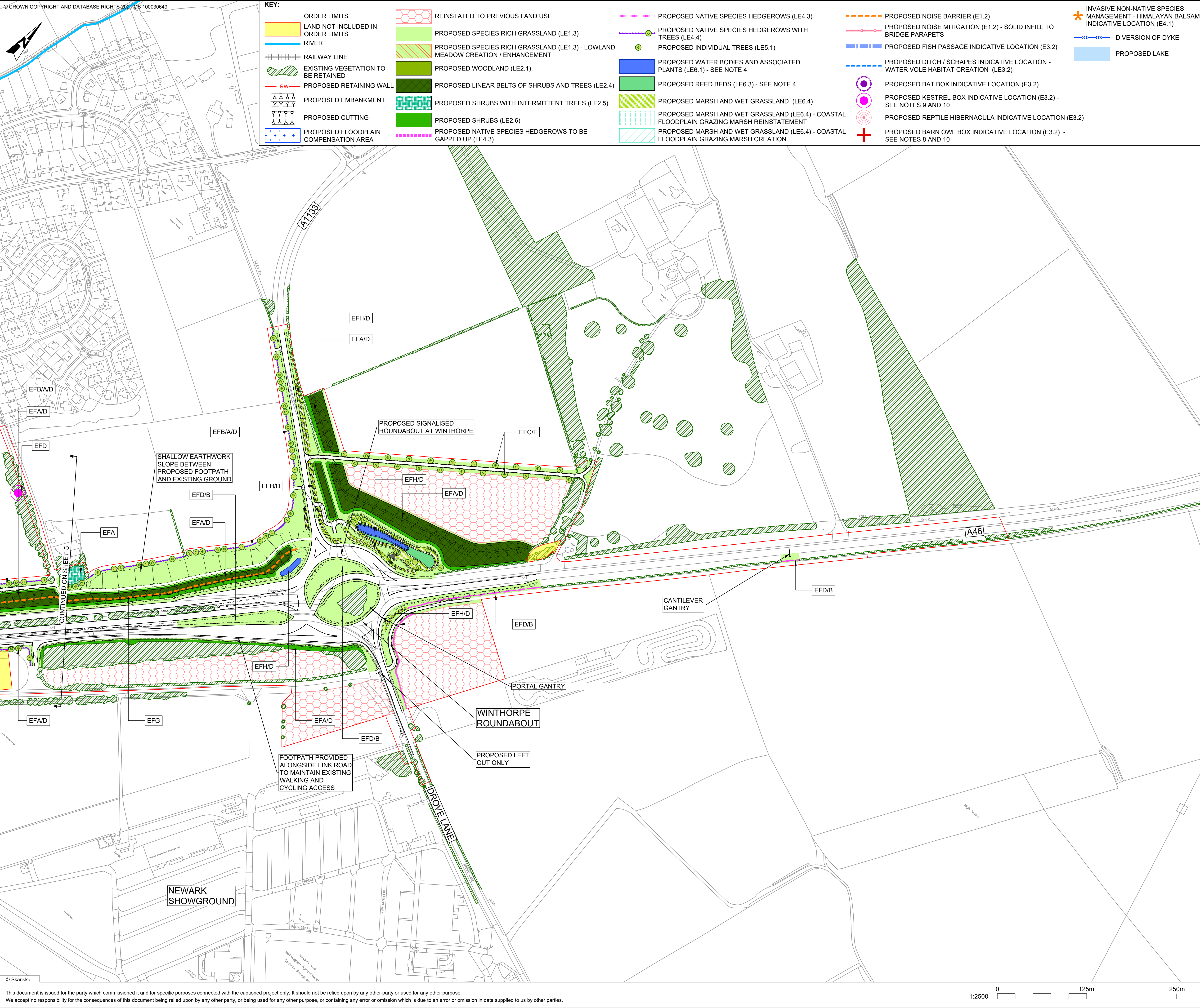
ORIGINAL SIZEA1SCALE1:2500

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HE551478SKAGELSH551478

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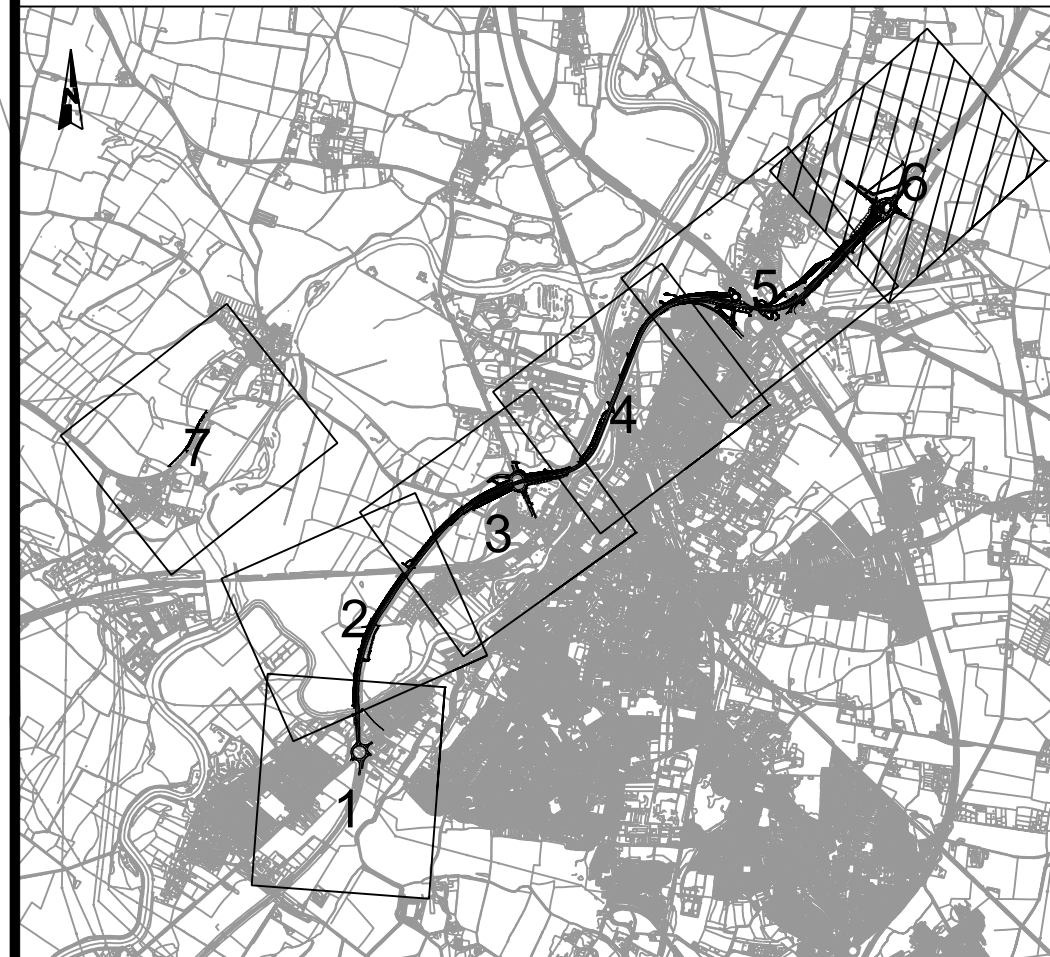
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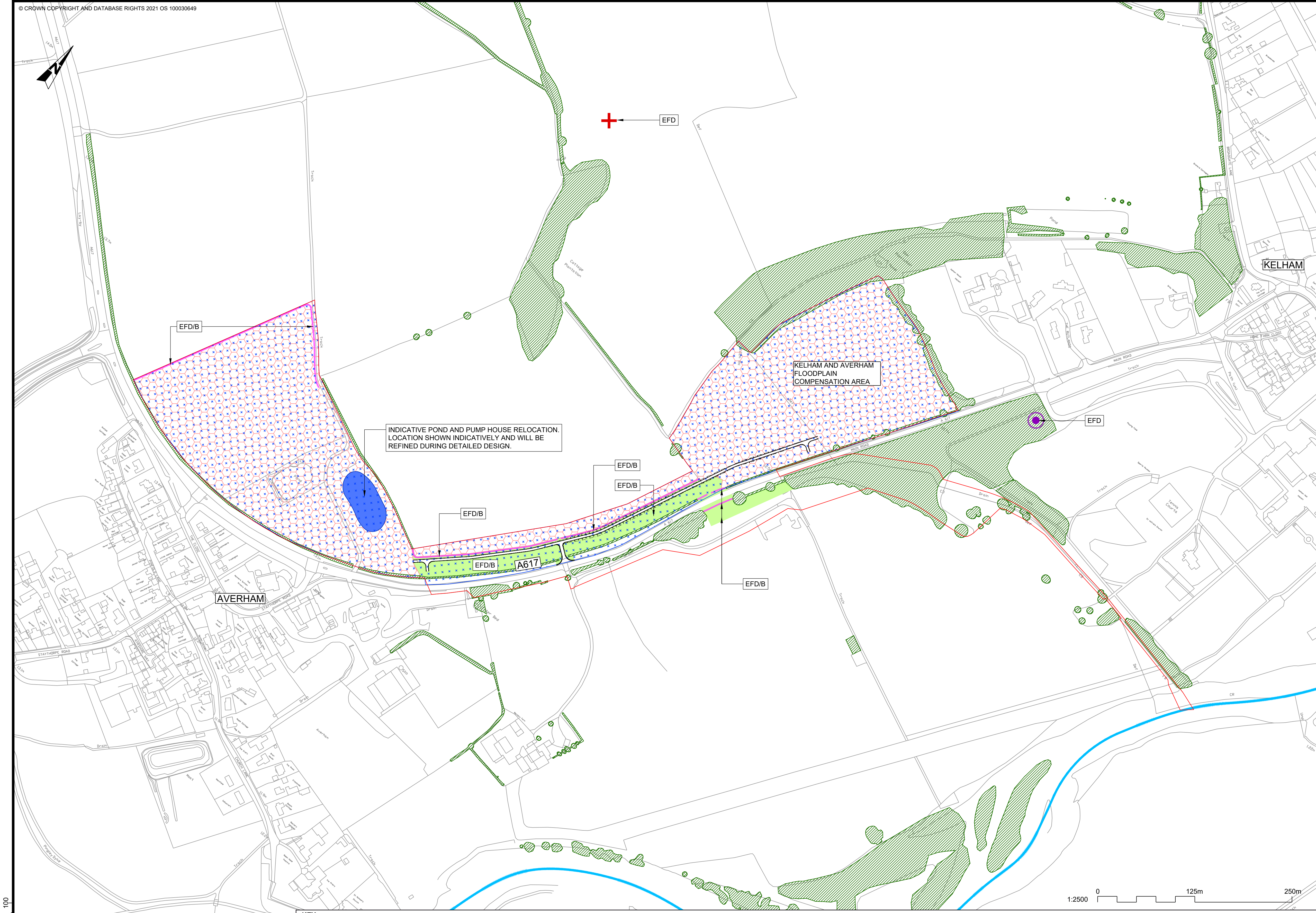
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EFF	HERITAGE
EFG	AUDITORY AMENITY
EFH	WATER QUALITY

Source: DMRB LD 117 Landscape Design



C01	06/03/24	DCO APPLICATION	PFMDC	CU	HF
REV.	DATE	AMENDMENT DETAILS	ORIG	CHK'D	APP'D
CLIENT					
national highways					
PURPOSE OF ISSUE					
DCO APPLICATION					
DEVELOPMENT CONSENT ORDER NUMBER					
TR010065					
PROJECT TITLE					
A46 NEWARK BYPASS					
DRAWING TITLE					
FIGURE 2.3 ENVIRONMENTAL MASTERPLAN SHEET 6 OF 7					
ORIGINAL SIZE			SCALE		
A1			1:2500		
DRAWING NUMBER		ORIGINATOR	VOLUME		PROJECT REF NO.
HE551478		SKAG	ELS		HE551478
CONWI_CONW		DR	LS	03006	REVISION
LOCATION		TYPE	ROLE	NUMBER	C01



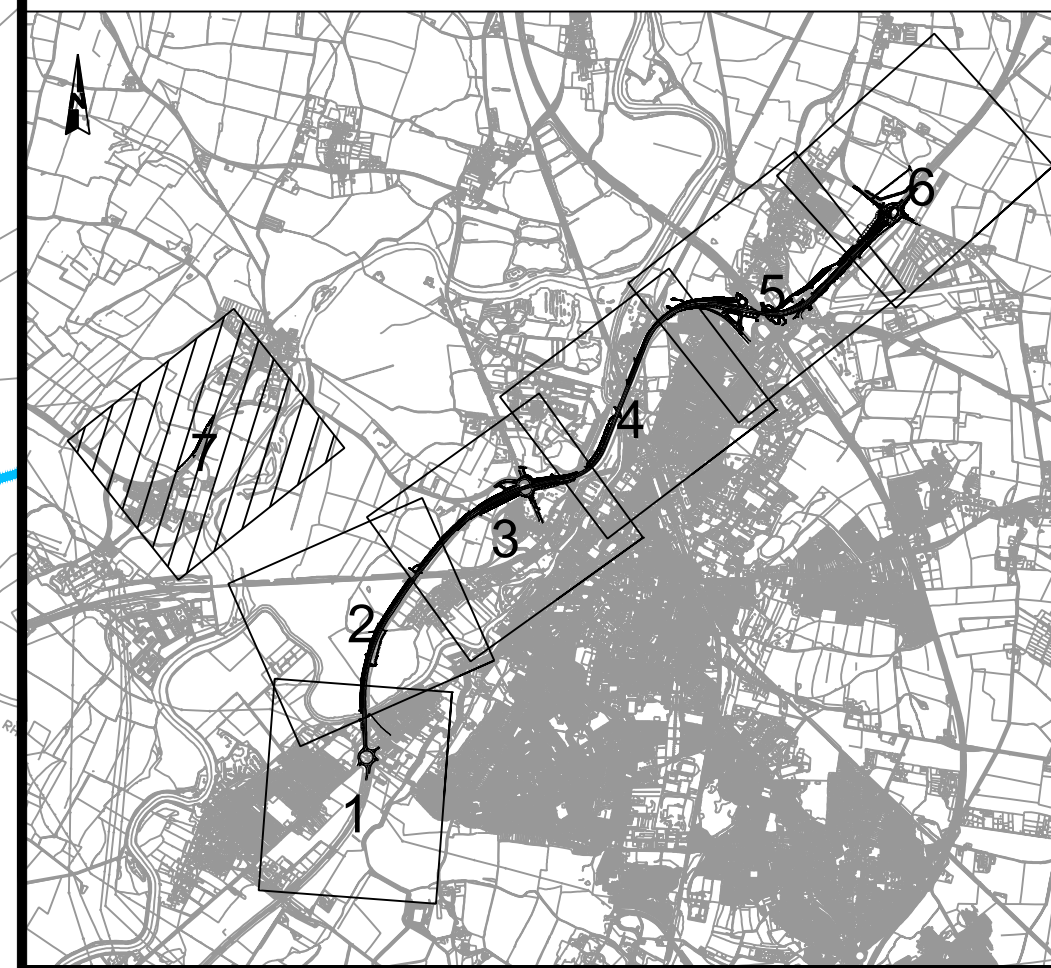
KEY:					
	ORDER LIMITS		REINSTATED TO PREVIOUS LAND USE		PROPOSED NATIVE SPECIES HEDGEROWS (LE4.3)
	LAND NOT INCLUDED IN ORDER LIMITS		PROPOSED SPECIES RICH GRASSLAND (LE1.3)		PROPOSED NATIVE SPECIES HEDGEROWS WITH TREES (LE4.4)
	RIVER		PROPOSED SPECIES RICH GRASSLAND (LE1.3) - LOWLAND MEADOW CREATION / ENHANCEMENT		PROPOSED INDIVIDUAL TREES (LE5.1)
	RAILWAY LINE		PROPOSED WOODLAND (LE2.1)		PROPOSED WATER BODIES AND ASSOCIATED PLANTS (LE6.1) - SEE NOTE 4
	EXISTING VEGETATION TO BE RETAINED		PROPOSED LINEAR BELTS OF SHRUBS AND TREES (LE2.4)		PROPOSED REED BEDS (LE6.3) - SEE NOTE 4
	PROPOSED RETAINING WALL		PROPOSED SHRUBS WITH INTERMITTENT TREES (LE2.5)		PROPOSED MARSH AND WET GRASSLAND (LE6.4)
	PROPOSED EMBANKMENT		PROPOSED SHRUBS (LE2.6)		PROPOSED MARSH AND WET GRASSLAND (LE6.4) - COASTAL FLOODPLAIN GRAZING MARSH REINSTATEMENT
	PROPOSED CUTTING		PROPOSED NATIVE SPECIES HEDGEROWS TO BE GAPPED UP (LE4.3)		PROPOSED MARSH AND WET GRASSLAND (LE6.4) - COASTAL FLOODPLAIN GRAZING MARSH CREATION
	PROPOSED FLOODPLAIN COMPENSATION AREA				PROPOSED BAT BOX INDICATIVE LOCATION (E3.2)
					PROPOSED KESTREL BOX INDICATIVE LOCATION (E3.2) - SEE NOTES 9 AND 10
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					DIVERSION OF DYKE
					PROPOSED LAKE

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We accept no responsibility for the consequences of this document being relied upon by any other party, or being used for any other purpose, or containing any error or omission which is due to an error or omission in data supplied to us by other parties.

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Source: DMRB LD 117 Landscape Design



CD1	06/03/24	DCO APPLICATION	PFMDC	CU	HF
REV.	DATE	AMENDMENT DETAILS	ORIG	CHK'D	APP'D

CLIENT

PURPOSE OF ISSUE

DCO APPLICATION

DEVELOPMENT CONSENT ORDER NUMBER

TR010065

PROJECT TITLE

A46 NEWARK BYPASS

DRAWING TITLE

FIGURE 2.3
ENVIRONMENTAL MASTERPLAN
SHEET 7 OF 7

ORIGINAL SIZE	A1	SCALE	1:2500	PROJECT REF NO.	HE551478
DRAWING NUMBER	HE PIN	ORIGINATOR	VOLUME	REVISION	
HE551478	SKAG	ELS			
CONWI_CONW	DR	LS	03007		
LOCATION	TYPE	ROLE	NUMBER		