

A1 in Northumberland: Morpeth to Ellingham

Scheme Number: TR010059

Landscape Mitigation Masterplan - Part A - Low Res

Rule 8(1)(c)

Planning Act 2008

Infrastructure Planning (Examination Procedure) Rules 2010

January 2021

Infrastructure Planning

Planning Act 2008

**The Infrastructure Planning
(Examination Procedure) Rules
2010**

**The A1 in Northumberland: Morpeth to
Ellingham**

Development Consent Order 20[xx]

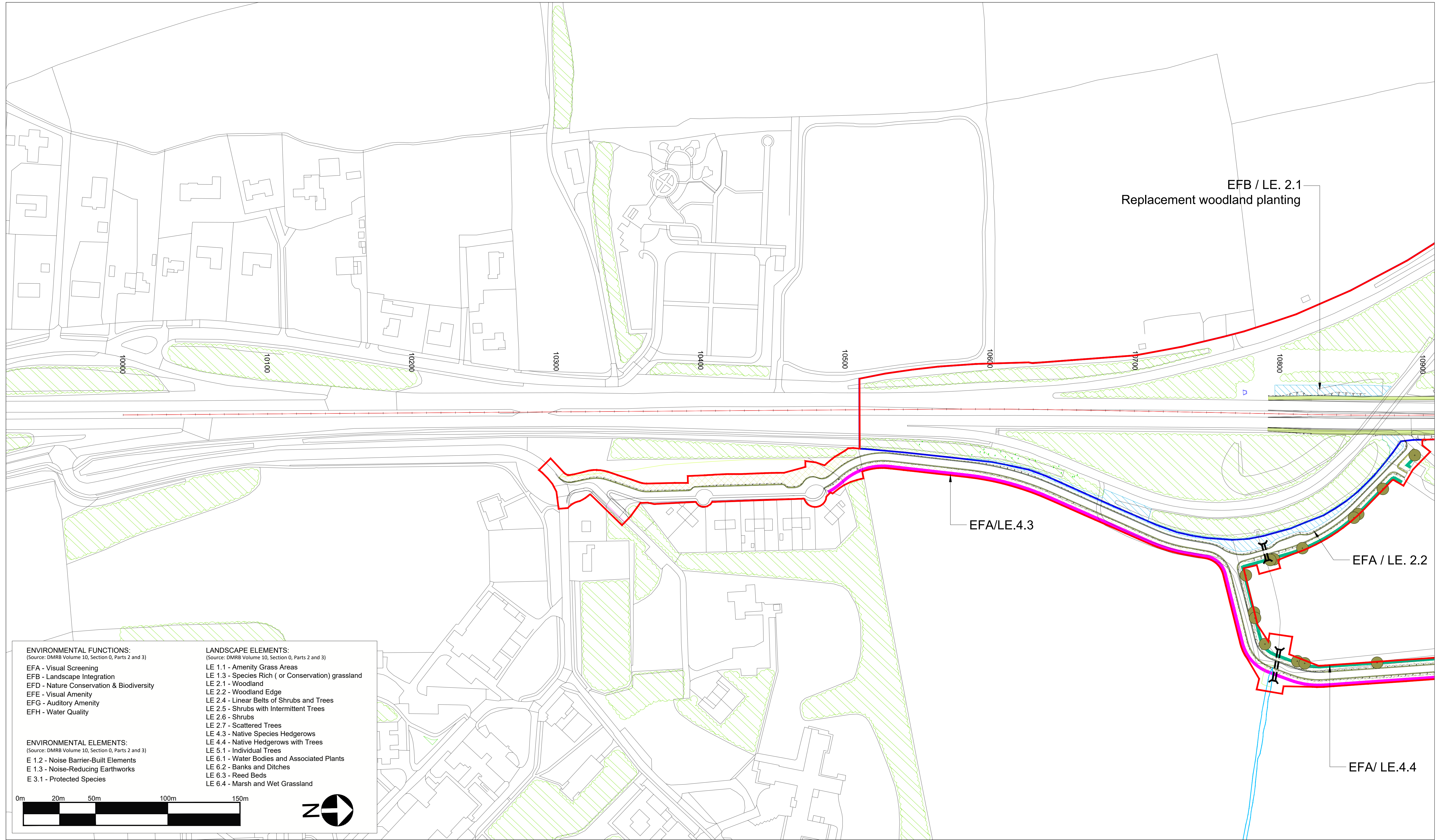
Landscape Mitigation Masterplan - Part A – Low Res

Rule Reference:	8(1)(c)
Planning Inspectorate Scheme Reference:	TR010059
Doc Reference:	6.31
Author:	A1 in Northumberland: Morpeth to Ellingham Project Team, Highways England

Version	Date	Status of Version
Rev 0	February 2021	Deadline 3

DO NOT SCALE

0 10 100
Millimetres



ENVIRONMENTAL FUNCTIONS:
(Source: DMRB Volume 10, Section 0, Parts 2 and 3)

EFA - Visual Screening
EFB - Landscape Integration
EFD - Nature Conservation & Biodiversity
EFE - Visual Amenity
EFG - Auditory Amenity
EFH - Water Quality

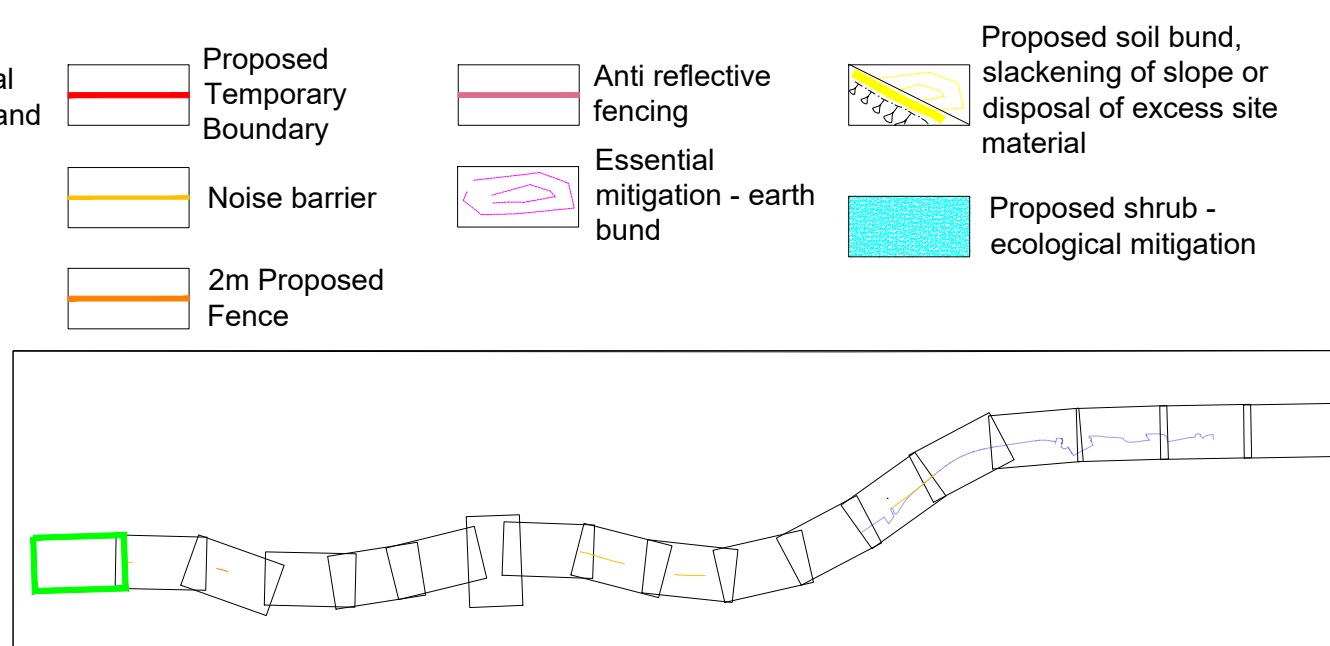
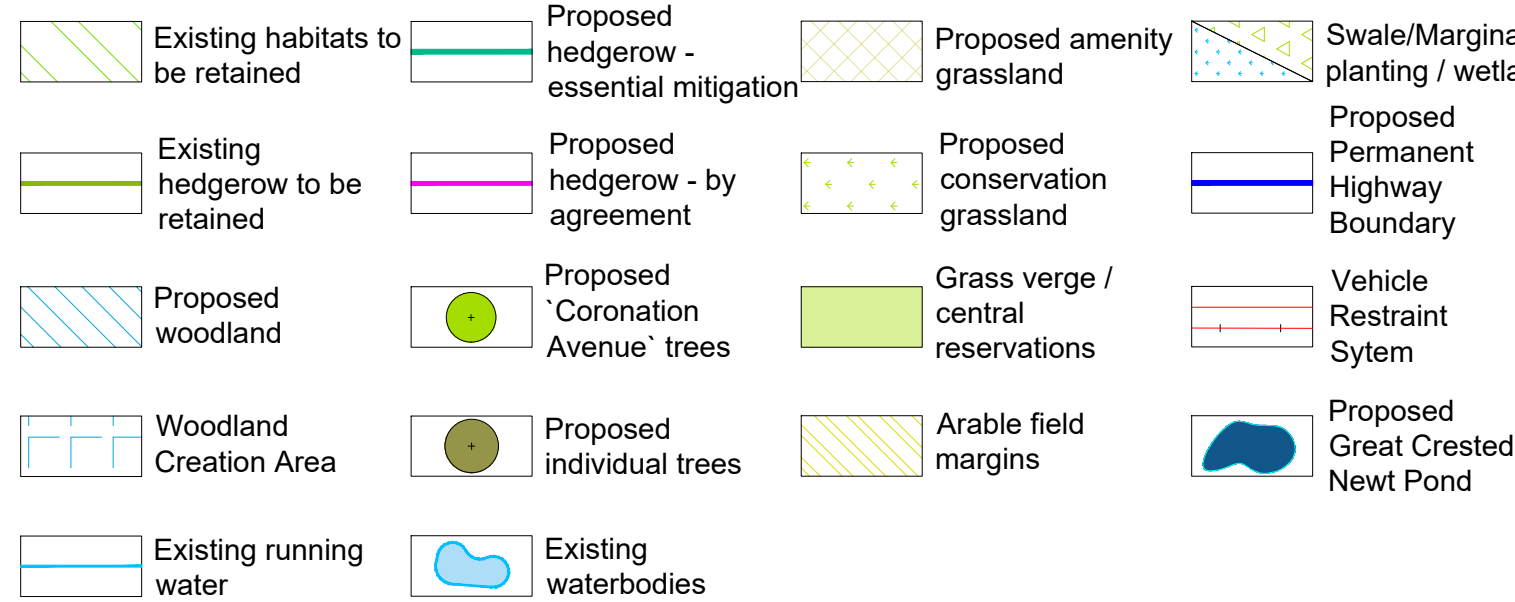
ENVIRONMENTAL ELEMENTS:
(Source: DMRB Volume 10, Section 0, Parts 2 and 3)

E 1.2 - Noise Barrier-Built Elements
E 1.3 - Noise-Reducing Earthworks
E 3.1 - Protected Species

LANDSCAPE ELEMENTS:
(Source: DMRB Volume 10, Section 0, Parts 2 and 3)

LE 1.1 - Amenity Grass Areas
LE 1.3 - Species Rich (or Conservation) grassland
LE 2.1 - Woodland
LE 2.2 - Woodland Edge
LE 2.4 - Linear Belts of Shrubs and Trees
LE 2.5 - Shrubs with Intermittent Trees
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LE 5.1 - Individual Trees
LE 6.1 - Water Bodies and Associated Plants
LE 6.2 - Banks and Ditches
LE 6.3 - Reed Beds
LE 6.4 - Marsh and Wet Grassland

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Rev.	Date	Description	By	Eng' Chk	Disc' Chk	App'd
8	02.02.2021	Amendments to mitigation strategy	NB	AW	AW	
7	29.08.2019	Update to Key	GH	AW	NM	
6	05.06.2019	Update to landscape hatches	CM	CH	NM	
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2	14.03.2019	Changes to Temporary Boundary	FS	CH		
1	rv date	Rev 1 description	By	Eng' Chk	Disc' Chk	App'd

For Information

S1

Client

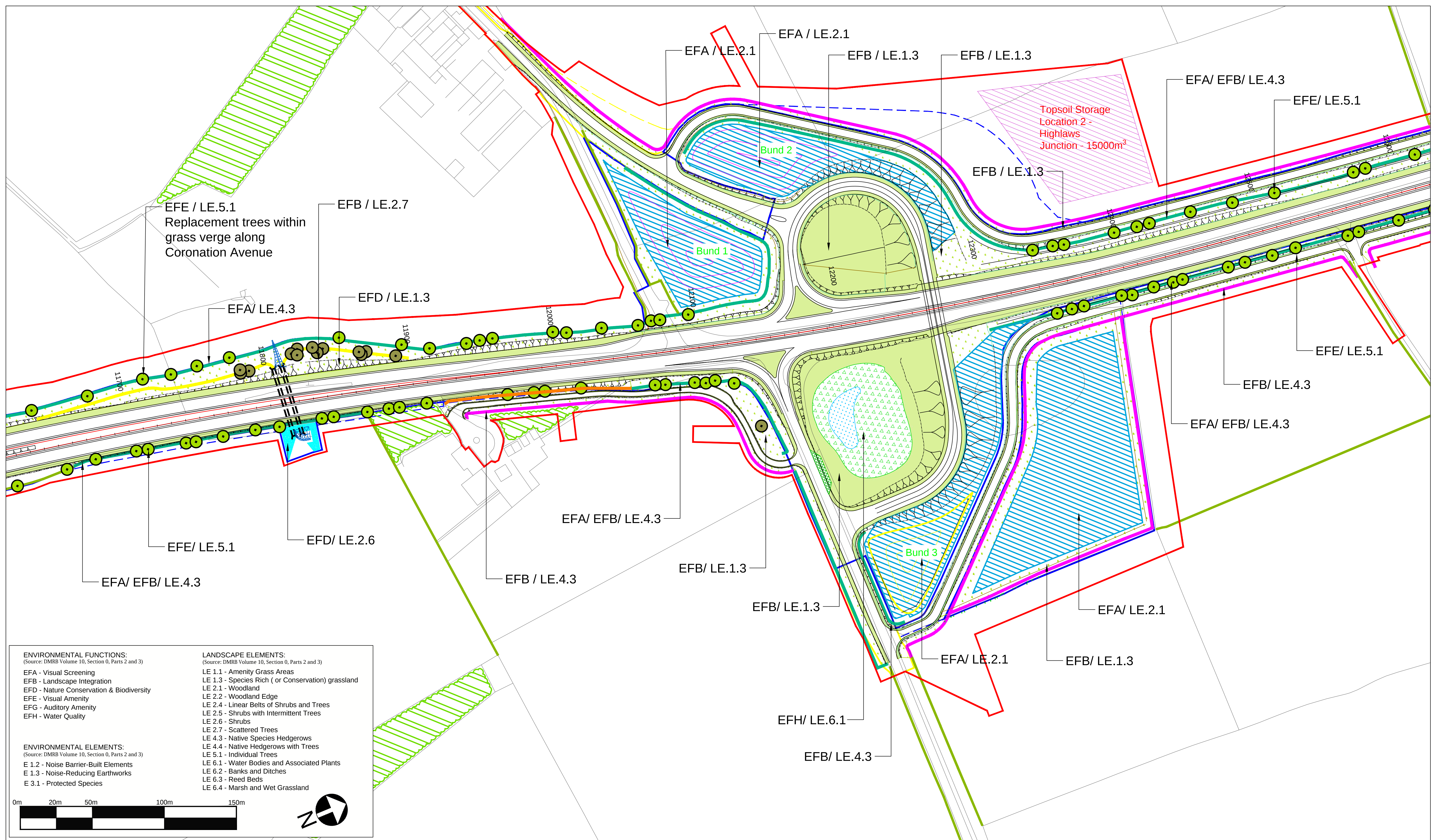
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A1 IN NORTHUMBERLAND: MORPETH TO ELLINGHAM					
Drawing Title					
Figure 7.8 - Landscape Mitigation Masterplan SHEET 1 OF 19					
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Original Size	Date	Date	Date	Date	
A1	02.02.2021	02.02.2021	02.02.2021	02.02.2021	
Drawing Number		Volume		Revision	
HE551459		6.2		P08	
Project		PW Stage Code			
HE551459					
Section	Type	ID	Direction	Type	Role
					Number

DO NOT SCALE

Millimetres

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ENVIRONMENTAL FUNCTIONS:

(Source: DMRB Volume 10, Section 0, Parts 2 and 3)

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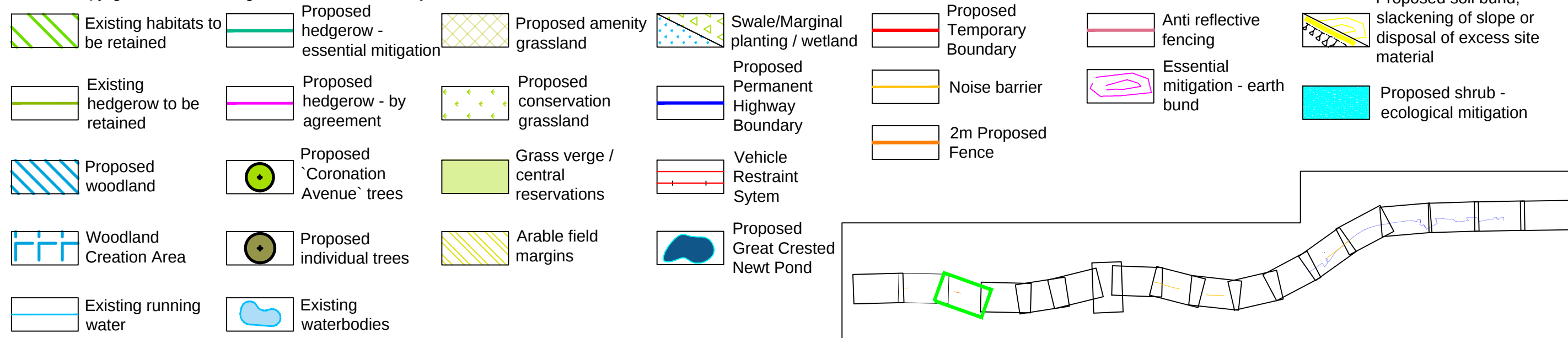
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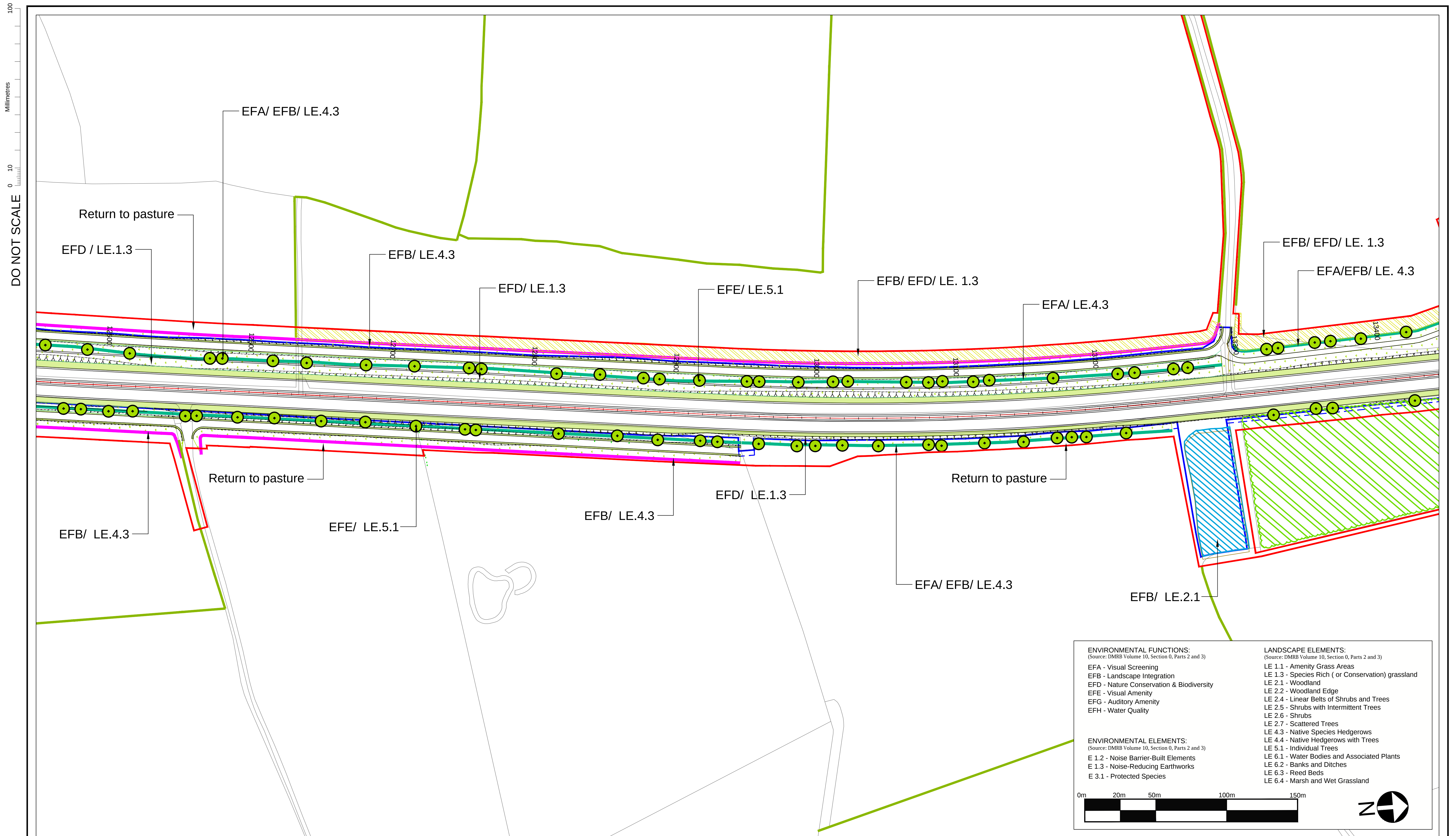


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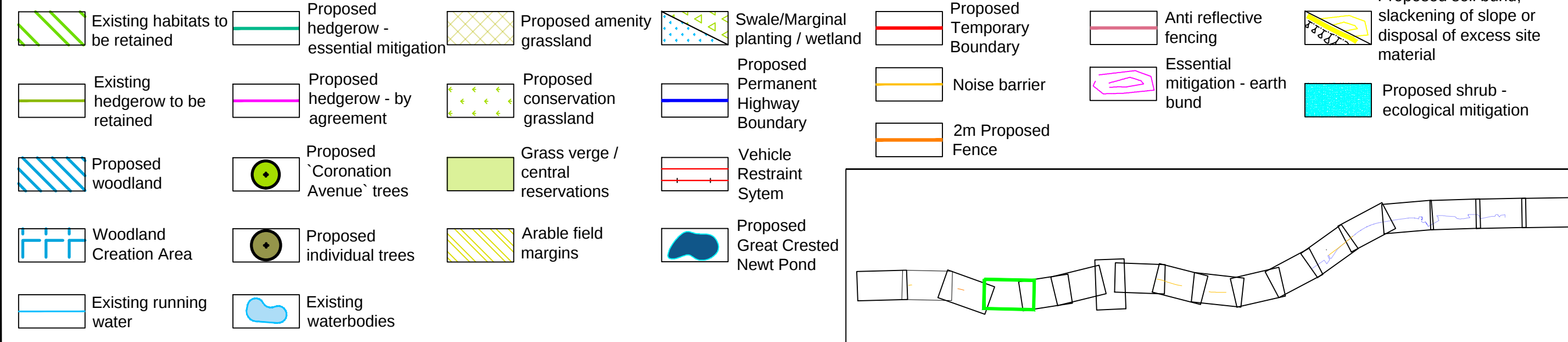


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1	rv date	Rev 1 description	By	Eng	Disc	

Suitability	Status	Project Title
For Information	S1	A1 IN NORTHUMBERLAND: MORPETH TO ELLINGHAM
Client		Figure 7.8 - Landscape Mitigation Masterplan SHEET 3 OF 19
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		Eng. Check AW
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		Authorised DM
		Original Size A1
		Date 02.02.2021
		Date 02.02.2021
		Date 02.02.2021
		Date 02.02.2021
		Project HE551459
		Originator WSP
		Volume 6.2
		P08
		PW Stage Code
		Section Type ID
		Direction Type Role Number



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Suitability

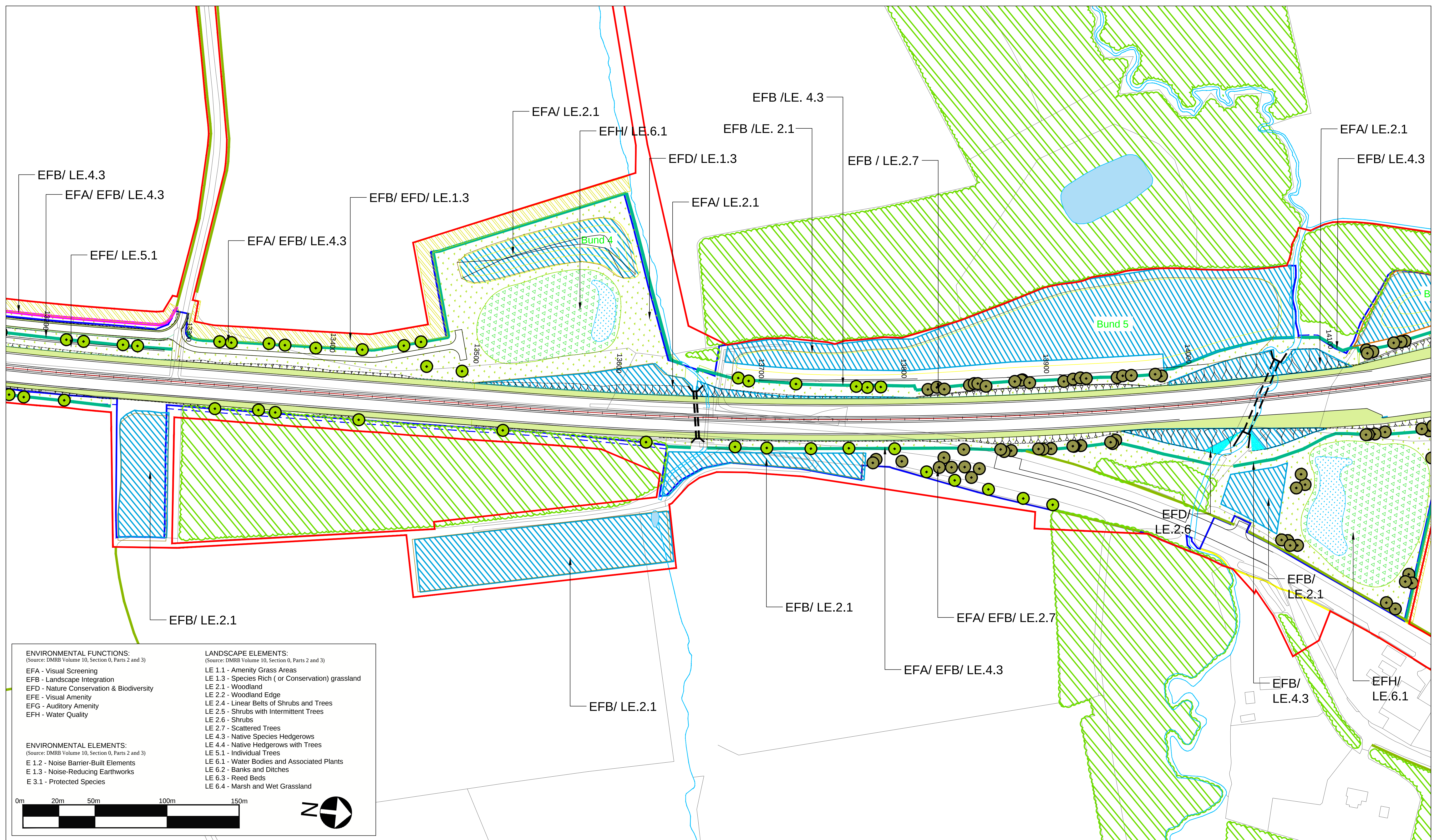
For Information

Client

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Drawing Title	Figure 7.8 - Landscape Mitigation Masterplan SHEET 4 OF 19
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Date	02.02.2021
Eng. Check	AW
Date	02.02.2021
Approved	AW
Date	02.02.2021
Authorised	DM
Date	02.02.2021
Drawing Number	HE551459
Project	WSP
Volume	6.2
Revision	P08
PW Stage Code	
Section	
Type	
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Number	

DO NOT SCALE

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Millimetres



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(Source: DMRB Volume 10, Section 0, Parts 2 and 3)

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ENVIRONMENTAL ELEMENTS:

(Source: DMRB Volume 10, Section 0, Parts 2 and 3)

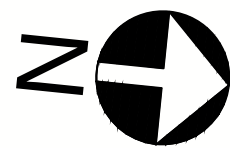
E 1.2 - Noise Barrier-Built Elements
E 1.3 - Noise-Reducing Earthworks
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LANDSCAPE ELEMENTS:

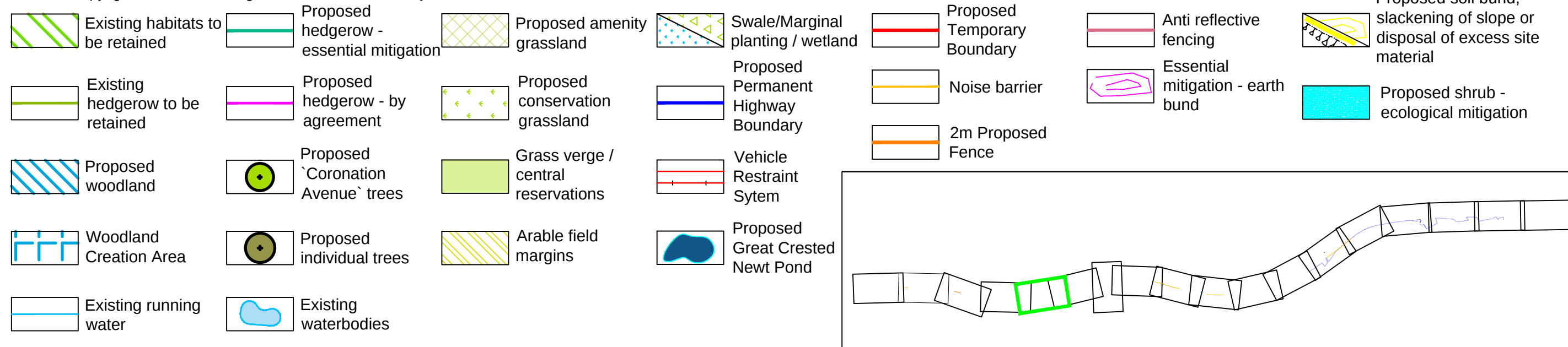
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LE 6.3 - Reed Beds
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0m 20m 50m 100m 150m



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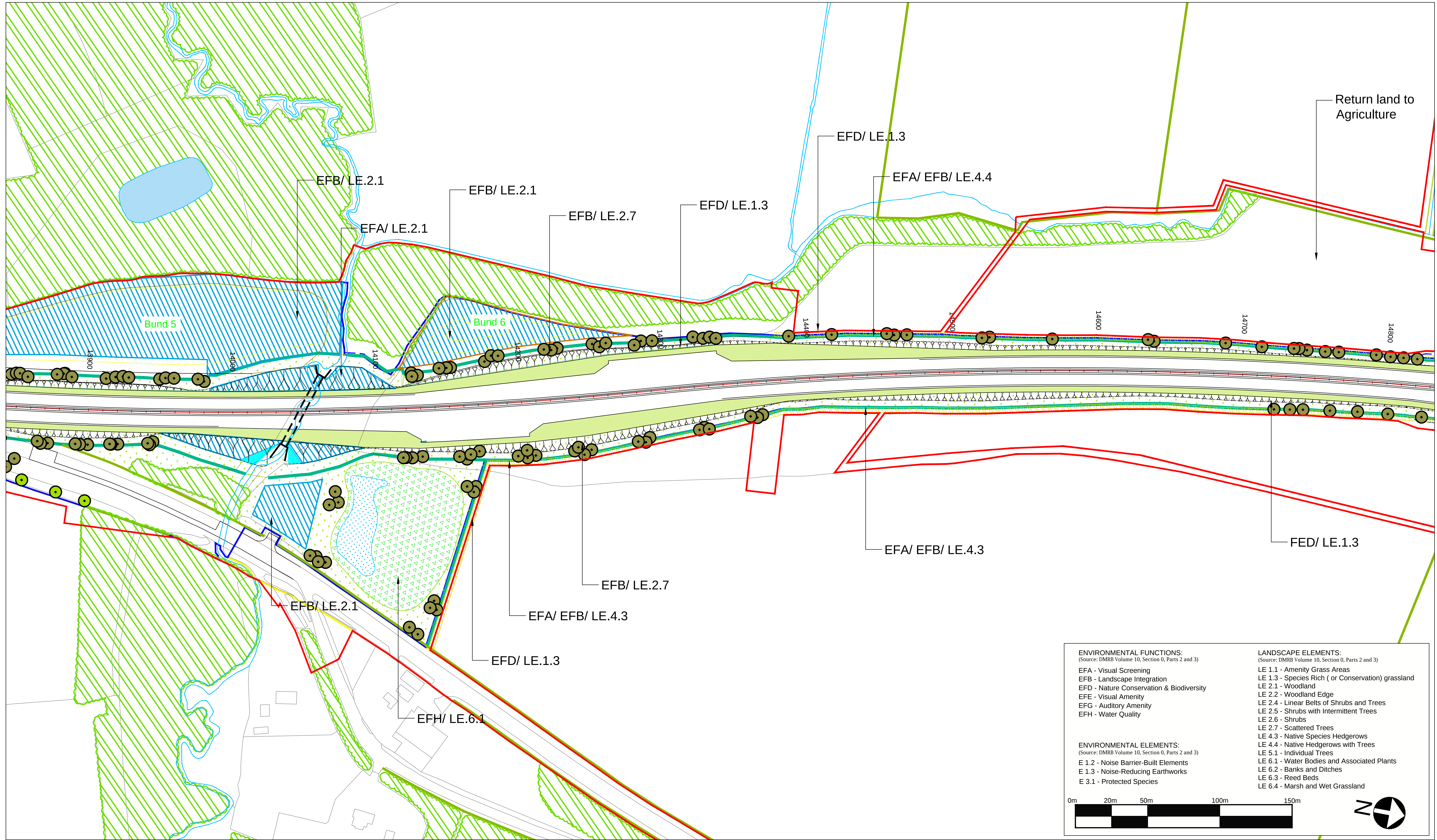


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1	rv date	Rev 1 description	By	Eng' Chk	Disc' Chk	KS

Suitability	Status	Project Title
For Information	S1	A1 IN NORTHUMBERLAND: MORPETH TO ELLINGHAM
Client		Figure 7.8 - Landscape Mitigation Masterplan SHEET 5 OF 19
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		Date 02.02.2021
		Date 02.02.2021
		Date 02.02.2021
		Drawing Number Project HE551459
		Originator WSP
		Volume 6.2
		P08
		PW Stage Code
		Section Type ID
		Direction Type Role Number

DO NOT SCALE

0 10 100
Millimetres



ENVIRONMENTAL FUNCTIONS:
(Source: DMRB Volume 10, Section 0, Parts 2 and 3)

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ENVIRONMENTAL ELEMENTS:
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E 1.2 - Noise Barrier-Built Elements
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Existing habitats to be retained

Existing hedgerow to be retained

Proposed woodland

Woodland Creation Area

Existing running water

Proposed hedgerow - essential mitigation

Proposed hedgerow - by agreement

Proposed 'Coronation Avenue' trees

Proposed individual trees

Existing waterbodies

Proposed amenity grassland

Proposed conservation grassland

Grass verge / central reservations

Arable field margins

Swale/Marginal planting / wetland

Proposed Permanent Highway Boundary

Vehicle Restraint System

Proposed Great Crested Newt Pond

Proposed Temporary Boundary

Noise barrier

2m Proposed Fence

Anti reflective fencing

Essential mitigation - earth bund

Proposed soil bund, slackening of slope or disposal of excess site material

Proposed shrub - ecological mitigation

Rev.	Date	Description	By	Eng' Chk	Disc' Chk	App'd
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Suitability

For Information

Status

S1

Project Title

A1 IN NORTHUMBERLAND:
MORPETH TO ELLINGHAM

Drawing Title

Figure 7.8 - Landscape Mitigation Masterplan
SHEET 6 OF 19

Scale

1:1250

Drawn

NB

Eng. Check

AW

Approved

AW

Authorised

DM

Original Size

A1

Date

02.02.2021

Date

02.02.2021

Date

02.02.2021

Date

02.02.2021

Drawing Number

HE551459

Project

WSP

Volume

6.2

Revision

P08

Section

Type

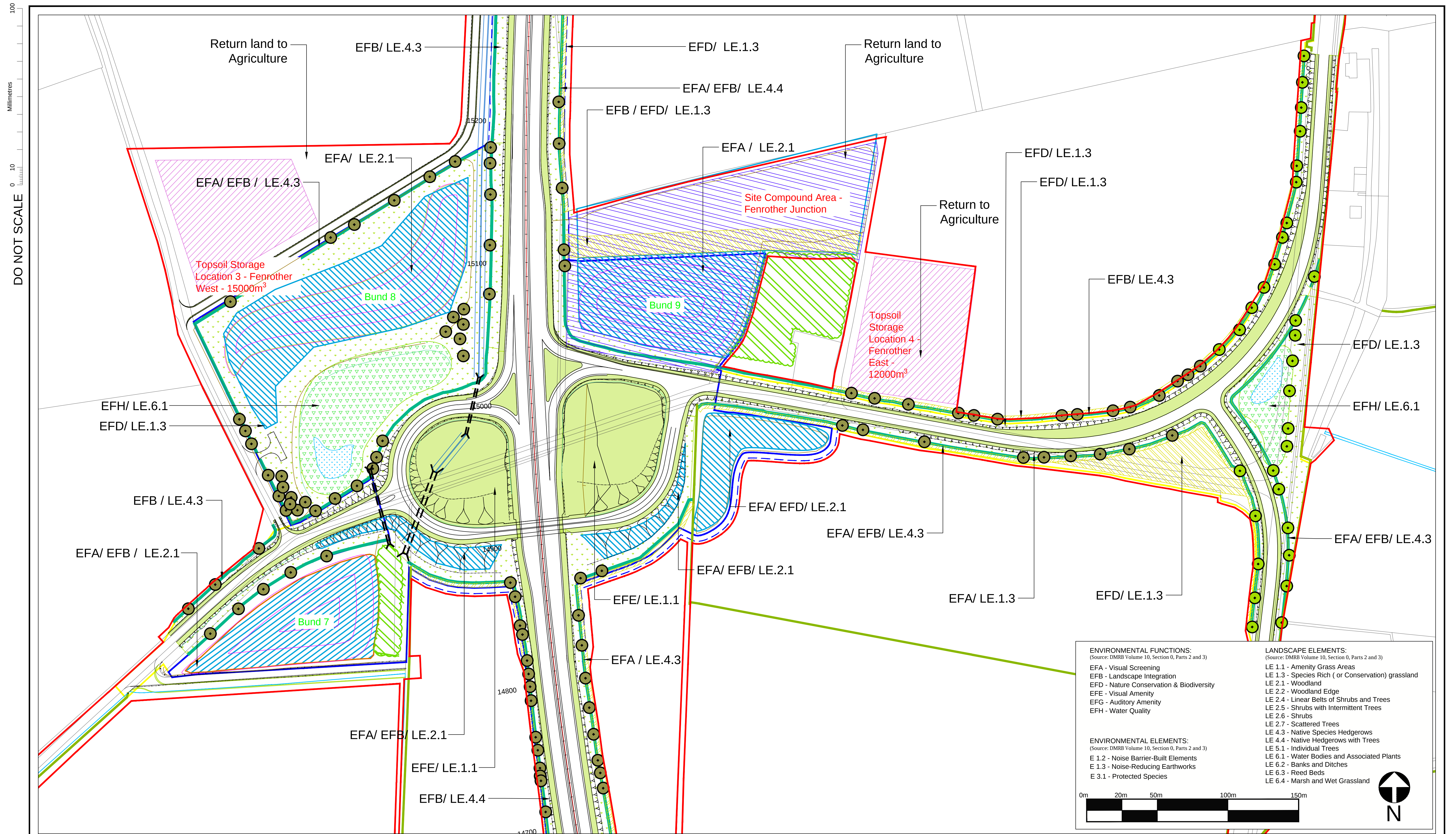
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Direction

Type

Role

Number



ENVIRONMENTAL FUNCTIONS:
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ENVIRONMENTAL ELEMENTS:
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E 1.2 - Noise Barrier-Built Elements
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LANDSCAPE ELEMENTS:
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Existing habitats to be retained

Existing hedgerow to be retained

Proposed woodland

Woodland Creation Area

Existing running water

Proposed hedgerow - essential mitigation

Proposed hedgerow - by agreement

Proposed 'Coronation Avenue' trees

Proposed individual trees

Existing waterbodies

Proposed amenity grassland

Proposed conservation grassland

Grass verge / central reservations

Arable field margins

Swale/Marginal planting / wetland

Proposed Permanent Highway Boundary

Vehicle Restraint System

Proposed Great Crested Newt Pond

Proposed Temporary Boundary

Noise barrier

2m Proposed Fence

Anti reflective fencing

Essential mitigation - earth bund

Proposed soil bund, slackening of slope or disposal of excess site material

Proposed shrub - ecological mitigation

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1	nv date	Rev 1 description				

For Information

S1

Client

Project Title

A1 IN NORTHUMBERLAND: MORPETH TO ELLINGHAM

Drawing Title

Figure 7.8 - Landscape Mitigation Masterplan
SHEET 7 OF 19

Scale

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Drawn

NB

Eng. Check

AW

Approved

AW

Authorised

DM

Original Size

A1

Date

02.02.2021

Date

02.02.2021

Date

02.02.2021

Date

02.02.2021

Drawing Number

HE551459

Project

WSP

Originator

M2F

Volume

6.2

Revision

P08

PW Stage Code

Section

Type

ID

Direction

Type

Role

Number

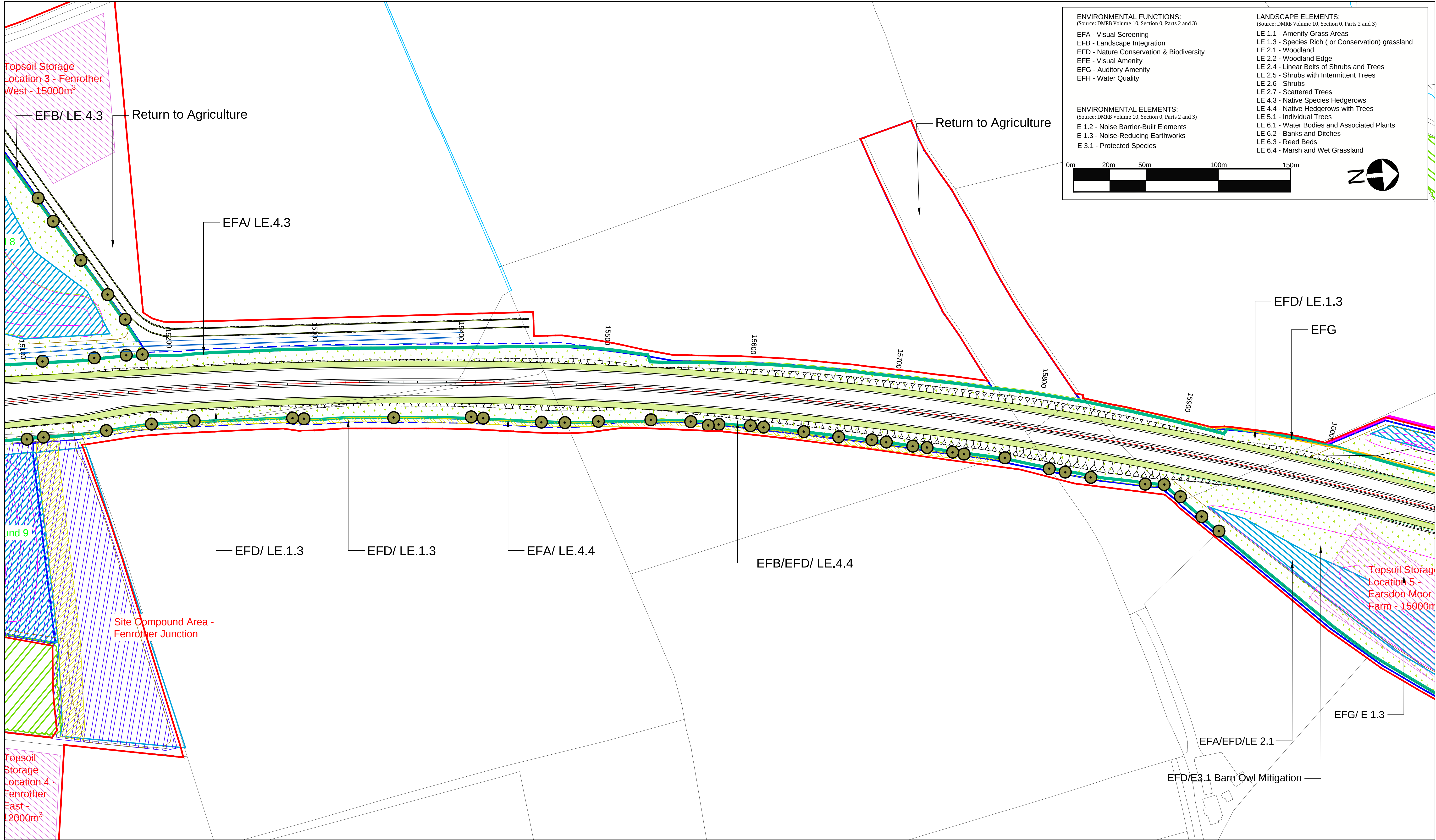
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Suitability

For Information

Status

S1

Project Title

A1 IN NORTHUMBERLAND: MORPETH TO ELLINGHAM

Drawing Title

Figure 7.8 - Landscape Mitigation Masterplan
SHEET 8 OF 19

Scale

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Drawn

NB

Eng. Check

AW

Approved

AW

Authorised

DM

Original Size

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Volume

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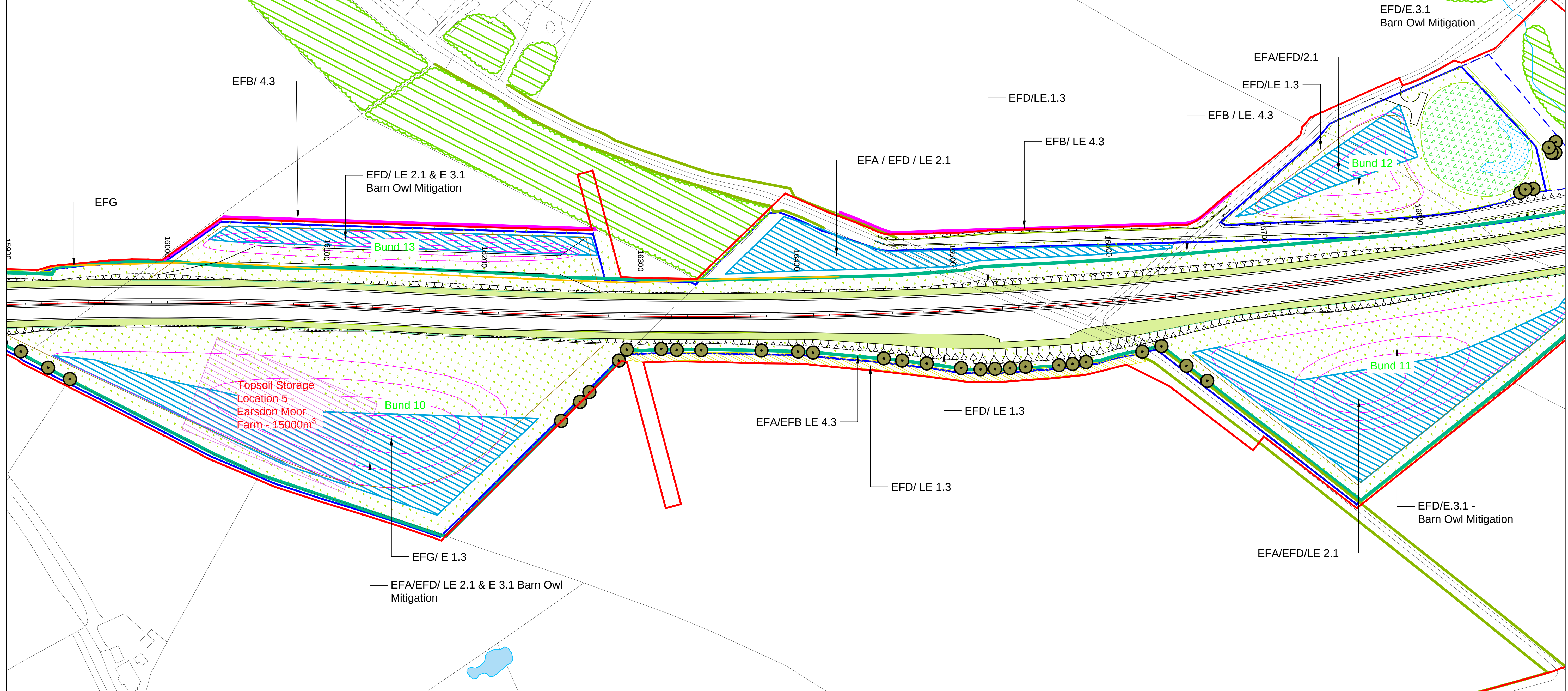
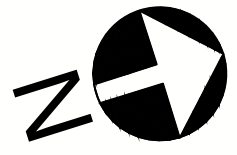
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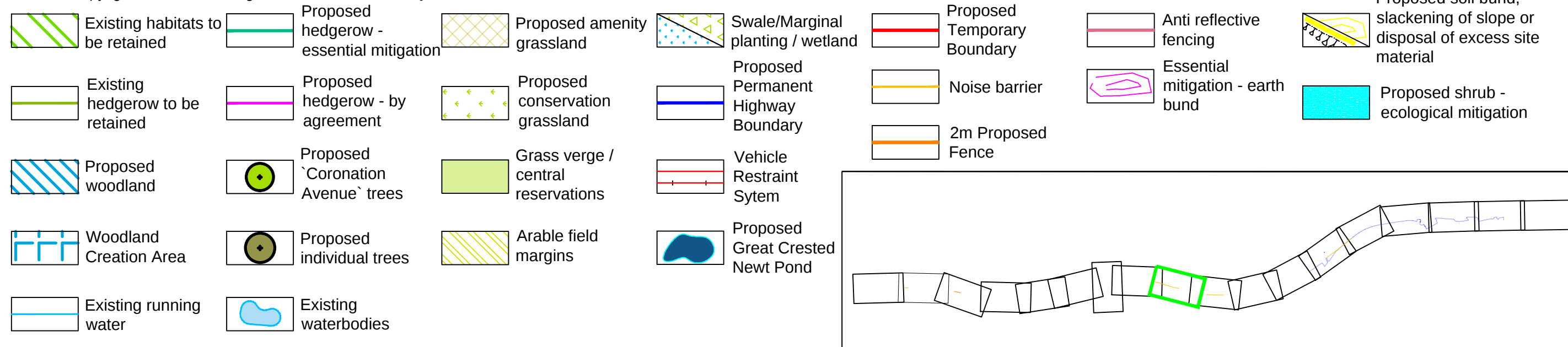
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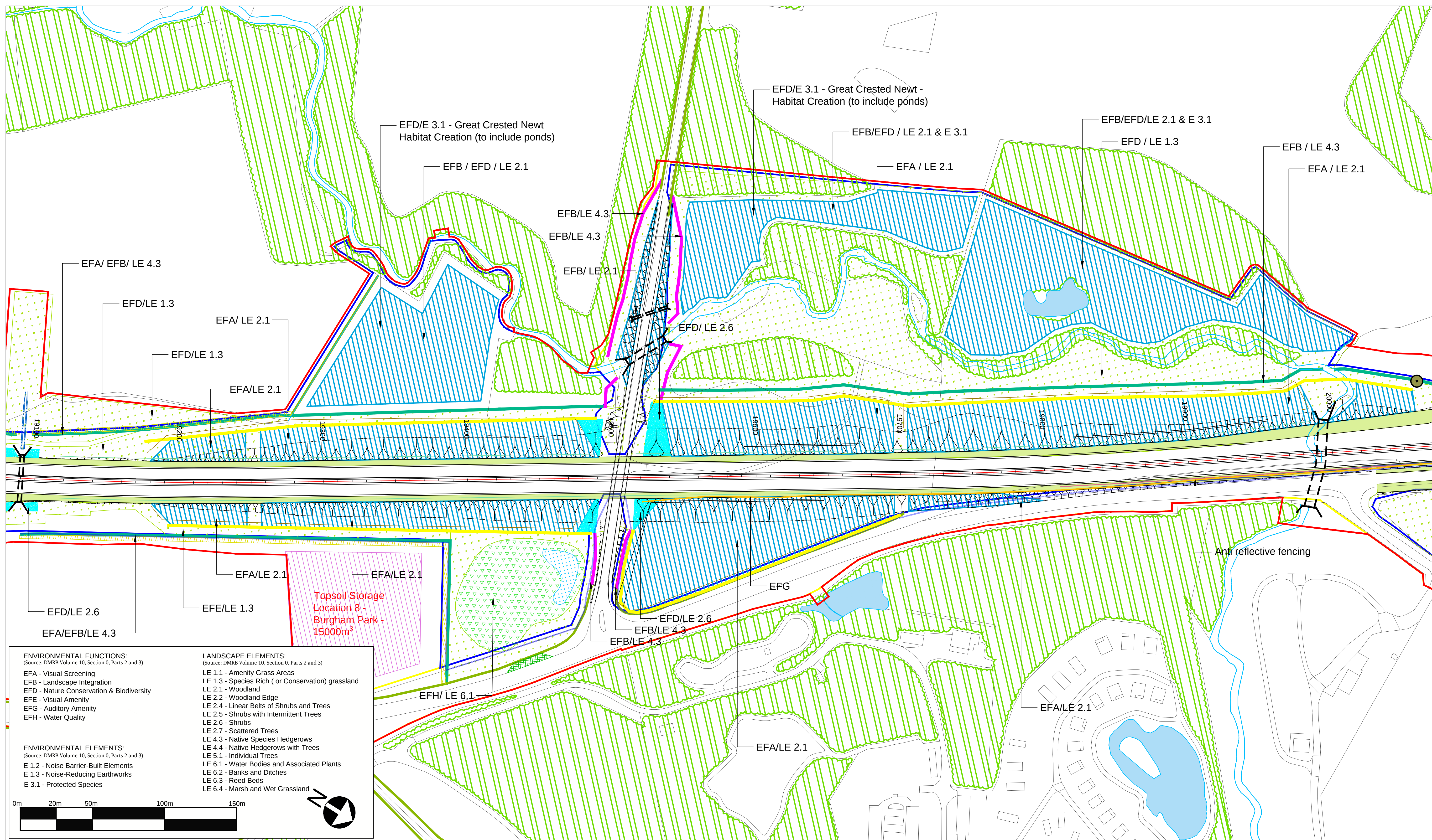
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Suitability	Status	Project Title
For Information	S1	A1 IN NORTHUMBERLAND: MORPETH TO ELLINGHAM
Client		Figure 7.8 - Landscape Mitigation Masterplan SHEET 9 OF 19

Scale	Drawn	Eng. Check	Approved	Authorised
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HE551459		WSP	6.2	P08
Section	Type	ID	Direction	Type

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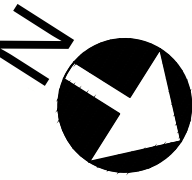
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ENVIRONMENTAL ELEMENTS:
(Source: DMRB Volume 10, Section 0, Parts 2 and 3)

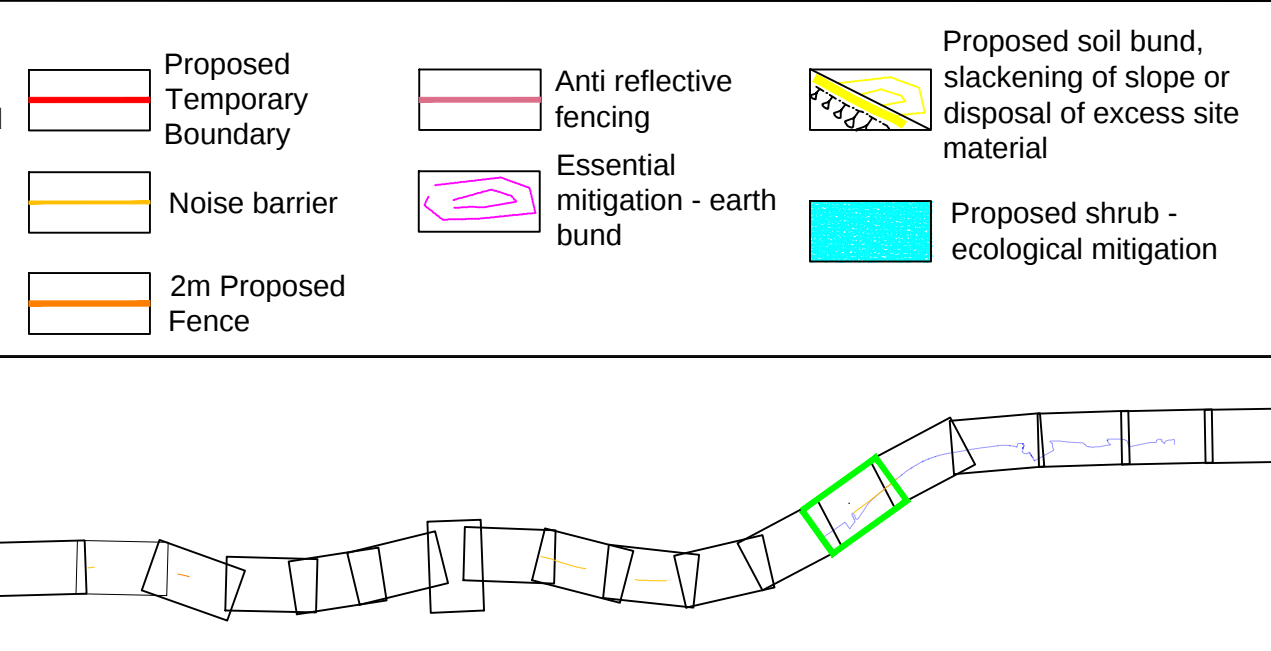
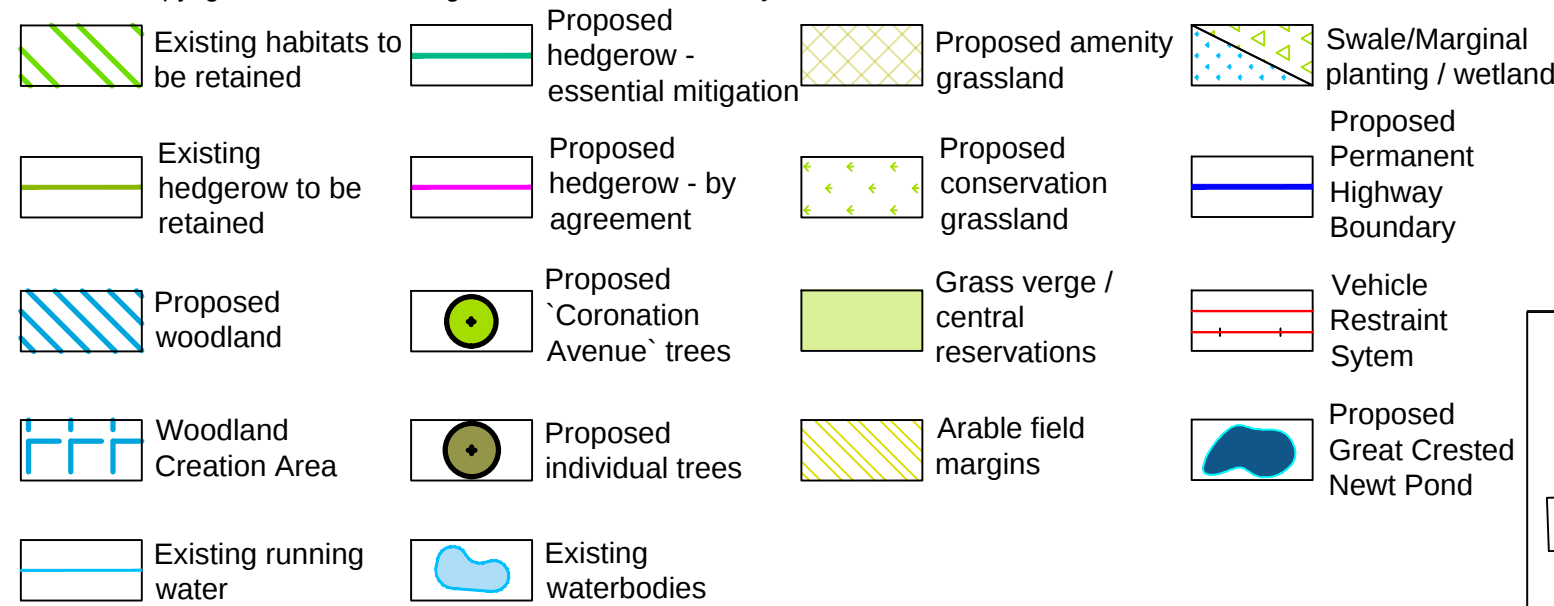
E 1.2 - Noise Barrier-Built Elements
E 1.3 - Noise-Reducing Earthworks
E 3.1 - Protected Species

LANDSCAPE ELEMENTS:
(Source: DMRB Volume 10, Section 0, Parts 2 and 3)

LE 1.1 - Amenity Grass Areas
LE 1.3 - Species Rich (or Conservation) grassland
LE 2.1 - Woodland
LE 2.2 - Woodland Edge
LE 2.4 - Linear Belts of Shrubs and Trees
LE 2.5 - Shrubs with Intermittent Trees
LE 2.6 - Shrubs
LE 2.7 - Scattered Trees
LE 4.3 - Native Species Hedgerows
LE 4.4 - Native Hedgerows with Trees
LE 5.1 - Individual Trees
LE 6.1 - Water Bodies and Associated Plants
LE 6.2 - Banks and Ditches
LE 6.3 - Reed Beds
LE 6.4 - Marsh and Wet Grassland



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Rev.	Date	Description	By	Eng' Chk	Disc' Chk	App'd
8	02.02.2021	Amendments to mitigation strategy	NB	AW	AW	
7	29.08.2019	Update to Key	GH	AW	NM	
6	05.06.2019	Update to landscape hatches	CM	CH	NM	
5	25.03.2019	Update to Key	CL	CH		
4	21.03.2019	Update to highways layout	CL	CH		
3	19.03.2019	Update to landscape hatches	CL	CH		
2	14.03.2019	Changes to Temporary Boundary	FS	CH		
1	nv date	Rev 1 description	By	Eng	Disc	

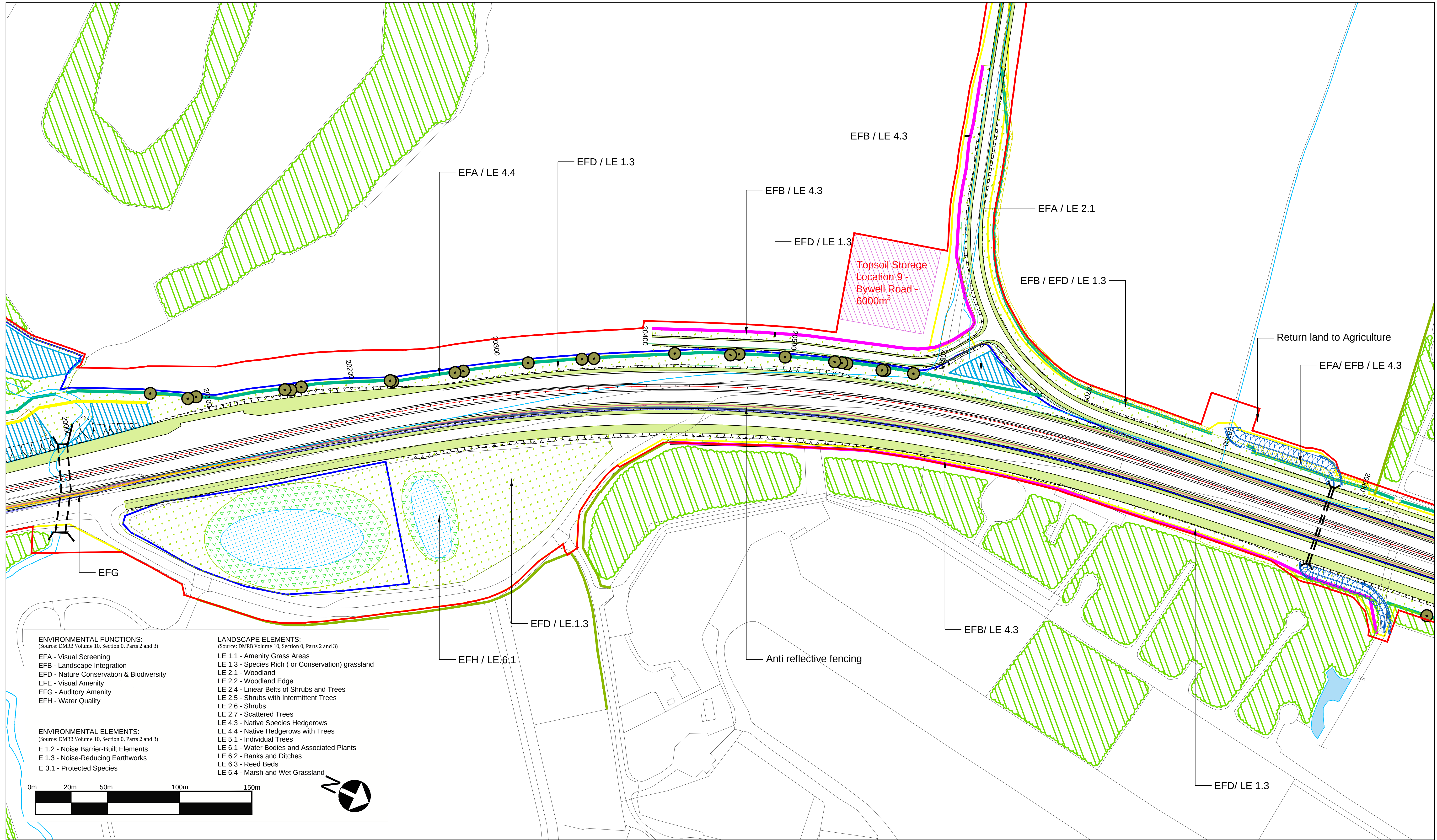
Suitability	Status	Project Title
For Information	S1	A1 IN NORTHUMBERLAND: MORPETH TO ELLINGHAM
Client		Figure 7.8 - Landscape Mitigation Masterplan SHEET 13 OF 19



Scale	Drawn	Eng. Check	Approved	Authorised
1:1250	NB	AW	AW	DM
Original Size	Date	Date	Date	Date
A1	02.02.2021	02.02.2021	02.02.2021	02.02.2021
Drawing Number	Project	Originator	Volume	Revision
HE551459		WSP	6.2	P08
Section	Type	ID	Direction	Type

DO NOT SCALE

0 10 100
Millimetres



ENVIRONMENTAL FUNCTIONS:

(Source: DMRB Volume 10, Section 0, Parts 2 and 3)

- EFA - Visual Screening
EFB - Landscape Integration
EFD - Nature Conservation & Biodiversity
EFE - Visual Amenity
EFG - Auditory Amenity
EFH - Water Quality

ENVIRONMENTAL ELEMENTS:

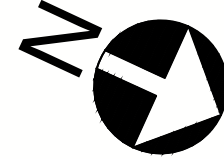
(Source: DMRB Volume 10, Section 0, Parts 2 and 3)

- E 1.2 - Noise Barrier-Built Elements
E 1.3 - Noise-Reducing Earthworks
E 3.1 - Protected Species

LANDSCAPE ELEMENTS:

(Source: DMRB Volume 10, Section 0, Parts 2 and 3)

- LE 1.1 - Amenity Grass Areas
LE 1.3 - Species Rich (or Conservation) grassland
LE 2.1 - Woodland
LE 2.2 - Woodland Edge
LE 2.4 - Linear Belts of Shrubs and Trees
LE 2.5 - Shrubs with Intermittent Trees
LE 2.6 - Shrubs
LE 2.7 - Scattered Trees
LE 4.3 - Native Species Hedgerows
LE 4.4 - Native Hedgerows with Trees
LE 5.1 - Individual Trees
LE 6.1 - Water Bodies and Associated Plants
LE 6.2 - Banks and Ditches
LE 6.3 - Reed Beds
LE 6.4 - Marsh and Wet Grassland

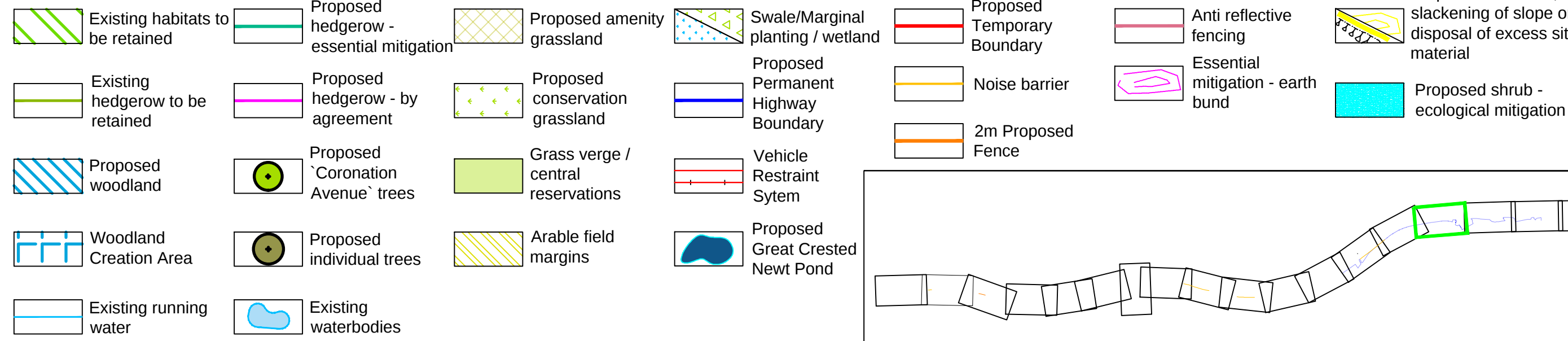
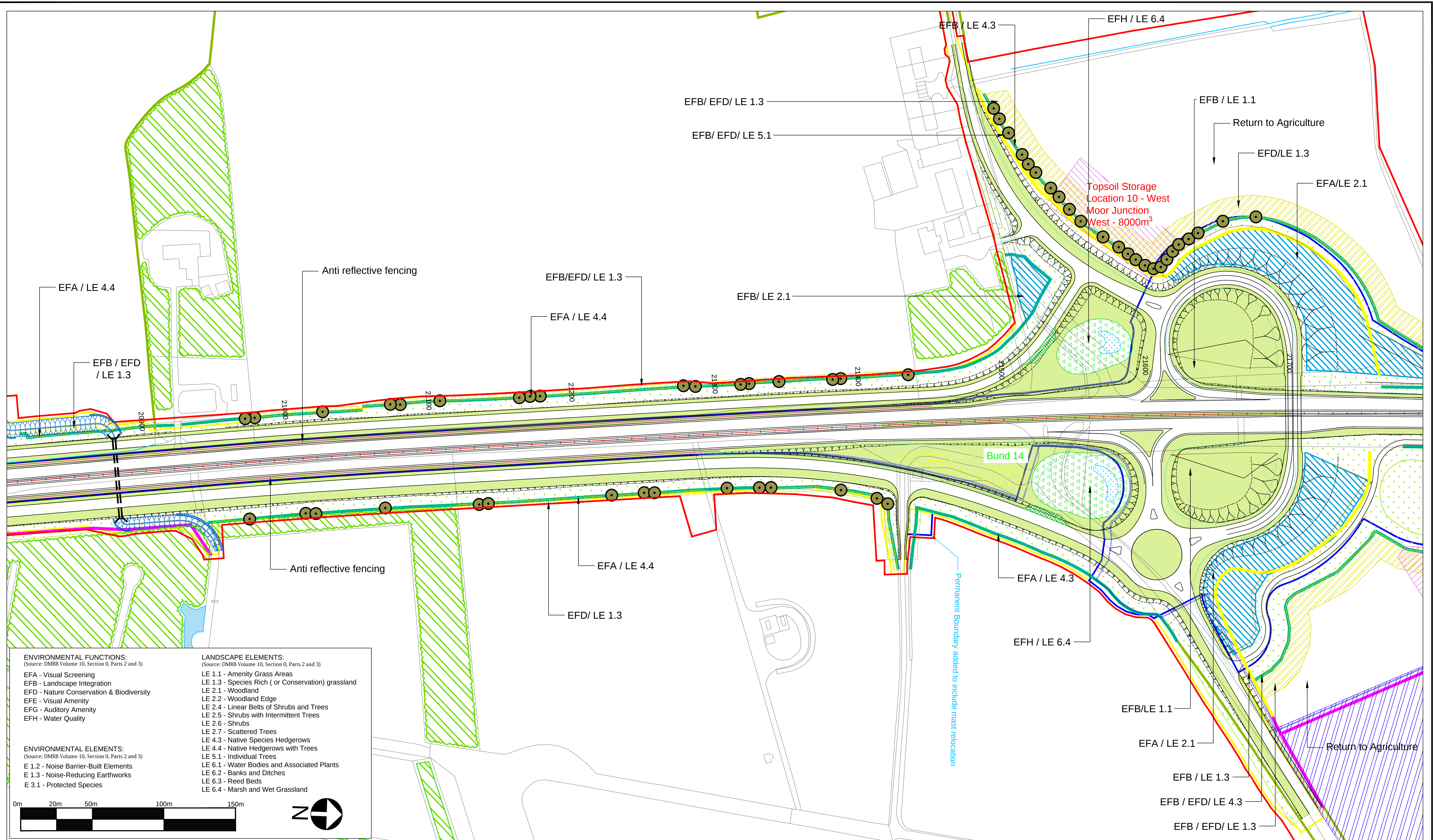


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Rev.	Date	Description	By	Eng' Chk	Disc' Chk	App'd
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7	29.08.2019	Update to Key		GH	AW	NM
6	05.06.2019	Update to landscape hatches		CM	CH	NM
5	25.03.2019	Update to Key		CL	CH	
4	21.03.2019	Update to highways layout		CL	CH	
3	19.03.2019	Update to landscape hatches		CL	CH	
2	14.03.2019	Changes in Temporary Boundary		FS	CH	
1	rv date	Rev 1 description				

Suitability	For Information	Status	S1
Client			

Project Title					A1 IN NORTHUMBERLAND: MORPETH TO ELLINGHAM				
Drawing Title					Figure 7.8 - Landscape Mitigation Masterplan SHEET 14 OF 19				
Scale	1:1250	Drawn	NB	Eng. Check	AW	Approved	AW	Authorised	DM
Original Size	A1	Date	02.02.2021	Date	02.02.2021	Date	02.02.2021	Date	02.02.2021
Drawing Number	HE551459		Project	WSP		Volume	6.2		P08
Section	Type	ID	Direction	Type	Role	Number	PW Stage Code		



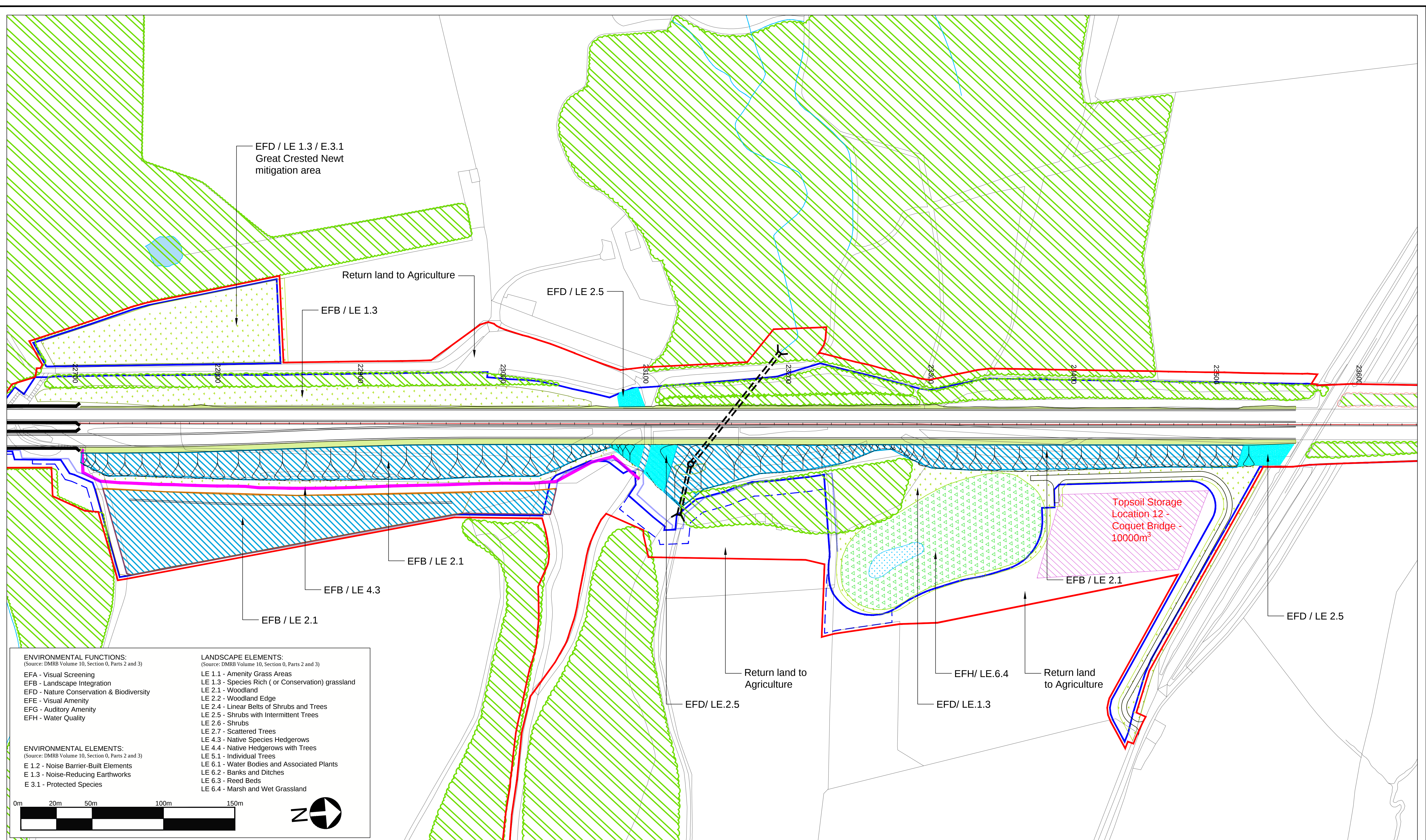
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6	05.06.2019	Update to landscape hatches	CM	CH	NM		
5	25.03.2019	Update to Key	CL	CH			
4	21.03.2019	Update to highways layout	CL	CH			
3	19.03.2019	Update to landscape hatches	CL	CH			
2	14.03.2019	Changes to Temporary Boundary	FS	CH			
1	rv date	Rev 1 description	By	Eng	Disc		
Rev.	Date	Description	By	Eng'g Check	Disc'ed	App'd	

Suitability	Project Title	Status	A1 IN NORTHUMBERLAND: MORPETH TO ELLINGHAM				
For Information		S1					
Client 			Drawing Title				
			Figure 7.8 - Landscape Mitigation Masterplan SHEET 15 OF 19				
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Drawing Number			Revision				
Project			WSP		P08		
HE551459			6.2				
M2F					PW Stage Code		
Author			Date		Number		

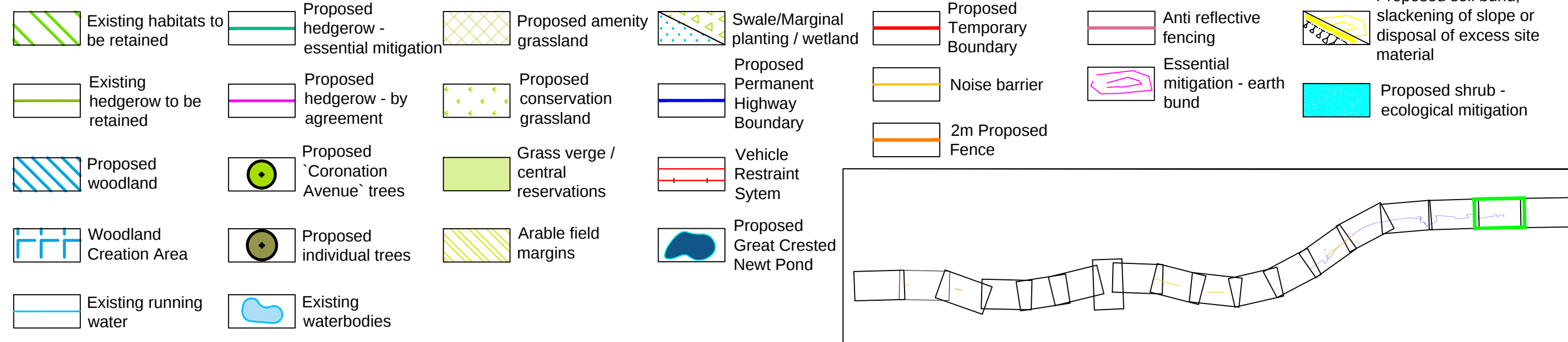
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Millimetres



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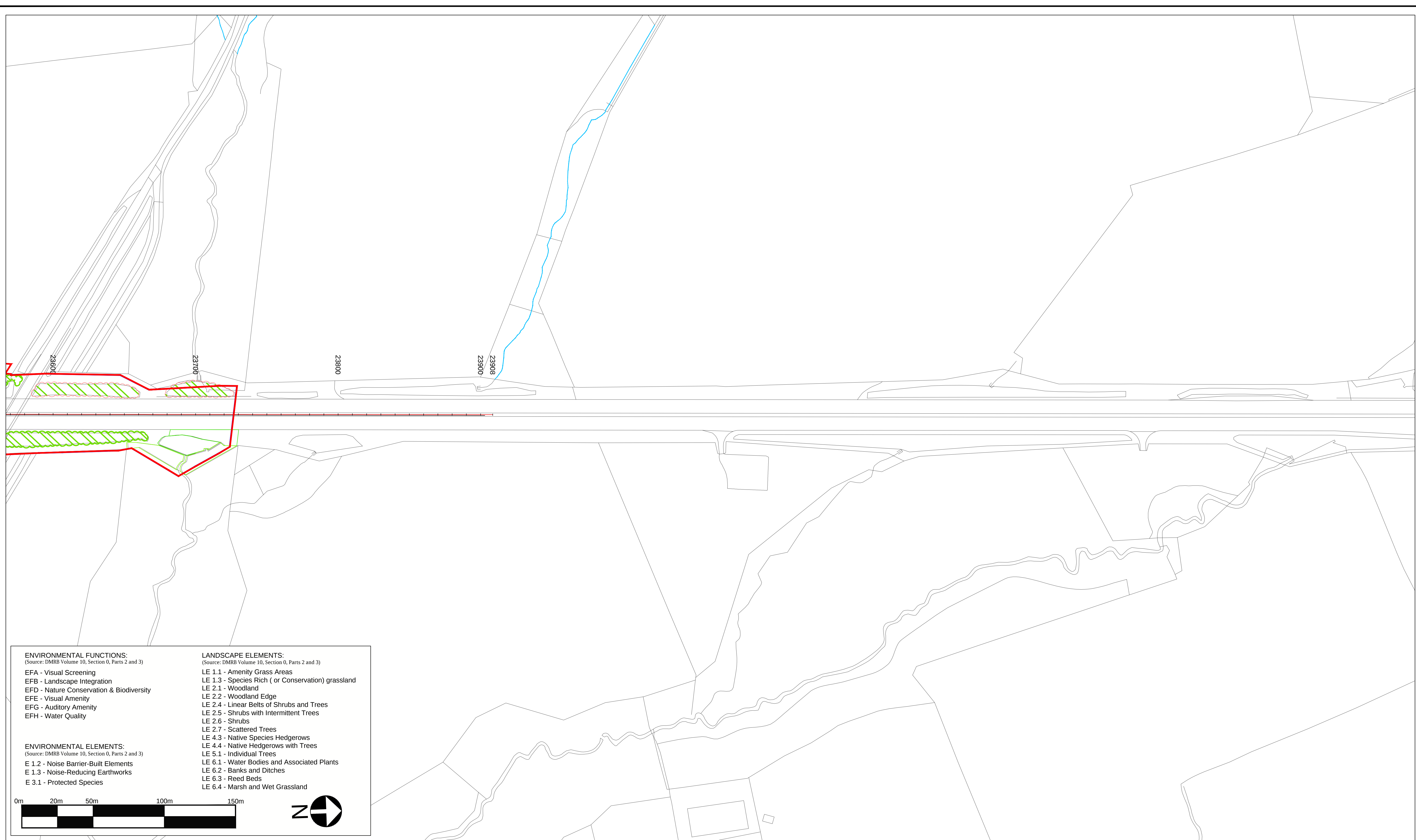
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Suitability	For Information	Status	S1	Project Title A1 IN NORTHUMBERLAND: MORPETH TO ELLINGHAM								
				Drawing Title Figure 7.8 - Landscape Mitigation Masterplan SHEET 17 OF 19								
				Scale 1:1250					Drawn NB	Eng. Check AW	Approved AW	Authorised DM
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				Section				Type	ID	Direction	Type	Role

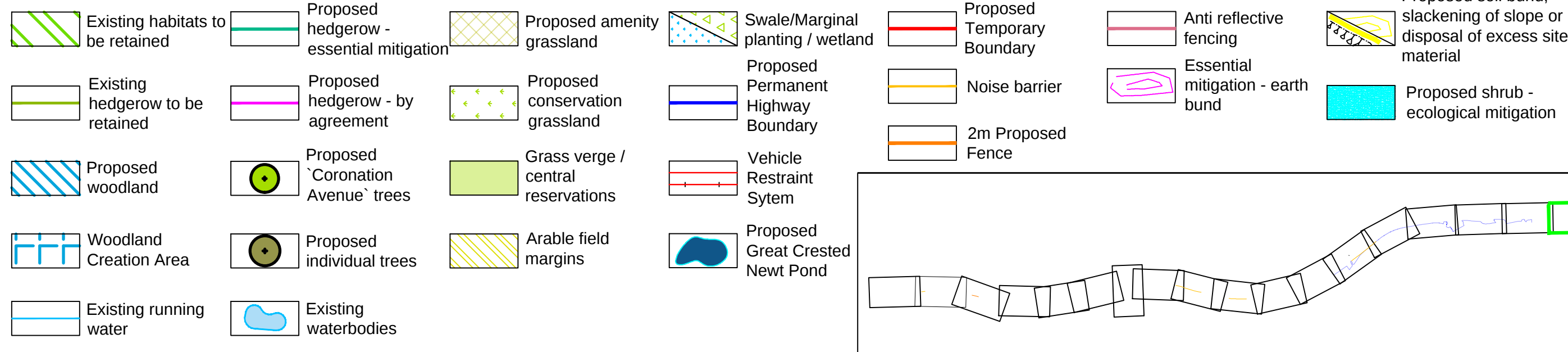
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Millimetres



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8	02.02.2021	Amendments to mitigation strategy		NB	AW	AW	
7	29.08.2019	Update to Key		GH	AW	NM	
6	05.06.2019	Update to landscape hatches		CM	CH	NM	
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4	21.03.2019	Update to highways layout		CL	CH		
3	19.03.2019	Update to landscape hatches		CL	CH		
2	14.03.2019	Changes to Temporary Boundary		FS	CH		
1	rv date	Rev 1 description		By	Eng	Disc	
Rev.	Date	Description		By	Eng' Ch'k	Disc' Ch'k	App'd

Suitability			Status			Project Title										
For Information			S1			A1 IN NORTHUMBERLAND: MORPETH TO ELLINGHAM										
Client 			Drawing Title													
			Figure 7.8 - Landscape Mitigation Masterplan SHEET 18 OF 19													
			Scale		Drawn		Eng. Check		Approved		Authorised					
			1:1250		NB		AW		AW		DM					
			Original Size		Date		Date		Date		Date					
A1		02.02.2021		02.02.2021		02.02.2021		02.02.2021								
			Drawing Number				Originator		Volume		Revision					
			Project				WSP		6.2		P08					
			HE551459													
			Section		Type		ID		Direction		Type		Role		Number	
			M2F													
			PW Stage Code													

Indicative Grassland Seed Mixes	
Botanical Name	Common Name
<i>Landscape Element</i>	Discription
LE.1.1	Amenity Grass Areas
LE.1.3	Species Rich (or Conservation) grassland
LE.1.3	Species Rich (or Conservation) grassland Arable Field Margins
LE.1.3	Species Rich (or Conservation) grassland Ancient Woodland - understory
LE.1.3	Species Rich (or Conservation) grassland verges / junctions
LE.6.3	Marsh an Wet Grassland
Seed mixes based on those supplied by Germinal Seeds.	

Indicative Native Hedgerow Mix		
Botanical Name	Common Name	% Mix
<i>Prunus spinosa</i>	Blackthorn	30
<i>Sambucus nigra</i>	Elder	5
<i>Crataegus monogyna</i>	Haw thorn	40
<i>Corylus avellana</i>	Hazel	10
<i>Ilex aquifolium</i>	Holly	7.5
<i>Rosa arvensis</i>	Field Rose	5
<i>Lonicera periclymenum</i>	Honeysuckle	2.5
<i>Prunus padus</i>	Bird Cherry	
<i>Quercus robur</i>	Common Oak	
<i>Sorbus aucuparia</i>	Row an	
Total		100%

Indicative Ancient Woodland Replacement Mix		
Botanical Name	Common Name	% Mix
<i>Aesculus hippocastanum</i>	Horse Chestnut	5
<i>Fagus sylvatica</i>	Beech	15
<i>Quercus petraea</i>	Sessile Oak	10
<i>Quercus robur</i>	Common Oak	10
<i>Sorbus aucuparia</i>	Row an	10
<i>Betula pendula</i>	Silver Birch	10
<i>Acer campestre</i>	Field Maple	7.5
<i>Sambucus nigra</i>	Elder	5
<i>Prunus avium</i>	Gean Cherry	7.5
<i>Viburnum opulus</i>	Guelder Rose	5
<i>Ilex aquifolium</i>	Holly	5
<i>Corylus avellana</i>	Hazel	10
Total		100%

Indicative Shrubs & Shrubs with Intermittent Trees Mix		
Botanical Name	Common Name	% Mix
<i>Shrubs</i>		
<i>Prunus spinosa</i>	Blackthorn	20
<i>Sambucus nigra</i>	Elder	15
<i>Rosa canina</i>	Dog Rose	15
<i>Acer campestre</i>	Field Maple	20
<i>Corylus avellana</i>	Hazel	30
<i>Feathered Trees</i>		
<i>Prunus padus</i>	Bird Cherry	
<i>Quercus robur</i>	Common Oak	
<i>Sorbus aucuparia</i>	Row an	
Total		100%

Indicative Woodland Block Planting Mix		
Botanical Name	Common Name	% Mix
<i>Fagus sylvatica</i>	Beech	10
<i>Quercus robur</i>	Common Oak	20
<i>Sorbus aucuparia</i>	Row an	10
<i>Betula pendula</i>	Silver Birch	10
<i>Acer campestre</i>	Field Maple	7.5
<i>Sambucus nigra</i>	Elder	5
<i>Prunus avium</i>	Gean Cherry	7.5
<i>Viburnum opulus</i>	Guelder Rose	5
<i>Ilex aquifolium</i>	Holly	5
<i>Corylus avellana</i>	Hazel	10
<i>Tilia platyphyllos</i>	Large Leaved Lime	10
Total		100%

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1	rv date	Rev 1 description	By	Eng' Chk	Disc' Chk		
Rev.	Date	Description	By	Eng' Chk	Disc' Chk	App'd	

Suitability		Status	Project Title				
For Information		S1	A1 IN NORTHUMBERLAND: MORPETH TO ELLINGHAM				
Client			Drawing Title				
			Figure 7.8 - Landscape Mitigation Masterplan SHEET 19 OF 19				
			Scale	Drawn	Eng. Check	Approved	Authorised
			1:1250	NB	AW	AW	DM
			Original Size	Date	Date	Date	Date
Drawing Number			Originator		Volume		Revision
Project			WSP		ES		P08
HE551459			M2F				PW Stage Code
Section	Type	ID	Direction	Type	Role	Number	

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or call **0300 470 4580***.