

Lower Thames Crossing
6.2 Environmental Statement
Figure 2.4: Environmental
Masterplan Section 2 (2 of 10)
(Tracked changes version)

APFP Regulation 5(2)(a)

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

Volume 6

DATE: ~~November~~, 2023

DEADLINE: ~~7~~

Deleted: August

Deleted: 3

Planning Inspectorate Scheme Ref: TR010032
Application Document Ref: TR010032/APP/6.2

VERSION: ~~4~~.0

Deleted: 3

Revision history

Version	Date	Submitted at
1.0	31 October 2022	DCO Application
2.0	3 August 2023	Deadline 2
3.0	24 August 2023	Deadline 3
<u>4.0</u>	<u>17 November 2023</u>	<u>Deadline 7</u>

Lower Thames Crossing

6.2 Environmental Statement Figure 2.4: Environmental Masterplan Section 2 (2 of 10) (Tracked changes version)

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1 Environmental Masterplan: Section 2

1.1 Schedule of Plans included in this application document

1.1.1 Section 2 (Sheets 1-21)

HE540039-CJV-EGN-S02_EN000000_Z-DR-ZZ- 00001 – Section 2 Overview	TR010032/APP/6.2	P02
HE540039-CJV-EGN-S02_EN000000_Z-DR-ZZ- 00002 - Section 2 Sheet 1	TR010032/APP/6.2	P03
HE540039-CJV-EGN-S02_EN000000_Z-DR-ZZ- 00003 - Section 2 Sheet 2	TR010032/APP/6.2	P02
HE540039-CJV-EGN-S02_EN000000_Z-DR-ZZ- 00004 - Section 2 Sheet 3	TR010032/APP/6.2	P02
HE540039-CJV-EGN-S02_EN000000_Z-DR-ZZ- 00005 - Section 2 Sheet 4	TR010032/APP/6.2	P01.4
HE540039-CJV-EGN-S02_EN000000_Z-DR-ZZ- 00006 - Section 2 Sheet 5	TR010032/APP/6.2	P03
HE540039-CJV-EGN-S02_EN000000_Z-DR-ZZ- 00007 - Section 2 Sheet 6	TR010032/APP/6.2	P04
HE540039-CJV-EGN-S02_EN000000_Z-DR-ZZ- 00008 - Section 2 Sheet 7	TR010032/APP/6.2	P01.5
HE540039-CJV-EGN-S02_EN000000_Z-DR-ZZ- 00009 - Section 2 Sheet 8	TR010032/APP/6.2	P01.4

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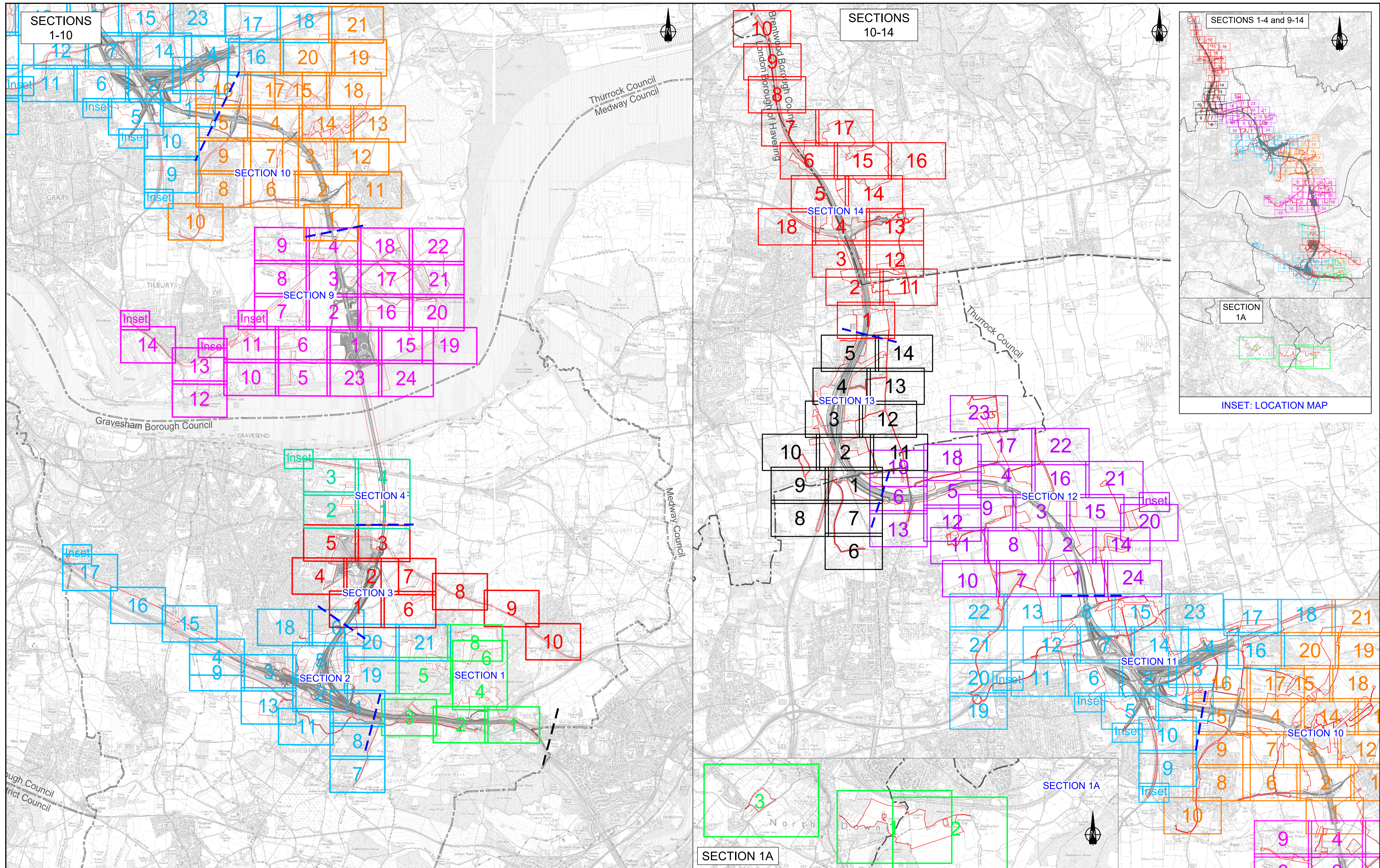
Deleted: P02

Deleted: P03

HE540039-CJV-EGN-S02_EN000000_Z-DR-ZZ- 00010 - Section 2 Sheet 9	TR010032/APP/6.2	P01.4
HE540039-CJV-EGN-S02_EN000000_Z-DR-ZZ- 00012 - Section 2 Sheet 11	TR010032/APP/6.2	P01.4
HE540039-CJV-EGN-S02_EN000000_Z-DR-ZZ- 00014 - Section 2 Sheet 13	TR010032/APP/6.2	P01.4
HE540039-CJV-EGN-S02_EN000000_Z-DR-ZZ- 00016 - Section 2 Sheet 15	TR010032/APP/6.2	P01.4
HE540039-CJV-EGN-S02_EN000000_Z-DR-ZZ- 00017 - Section 2 Sheet 16	TR010032/APP/6.2	P01.5
HE540039-CJV-EGN-S02_EN000000_Z-DR-ZZ- 00018 - Section 2 Sheet 17	TR010032/APP/6.2	P01.5
HE540039-CJV-EGN-S02_EN000000_Z-DR-ZZ- 00019 - Section 2 Sheet 18	TR010032/APP/6.2	P02
HE540039-CJV-EGN-S02_EN000000_Z-DR-ZZ- 00020 - Section 2 Sheet 19	TR010032/APP/6.2	P02
HE540039-CJV-EGN-S02_EN000000_Z-DR-ZZ- 00021 - Section 2 Sheet 20	TR010032/APP/6.2	P01.4
HE540039-CJV-EGN-S02_EN000000_Z-DR-ZZ- 00022 - Section 2 Sheet 21	TR010032/APP/6.2	P01.4

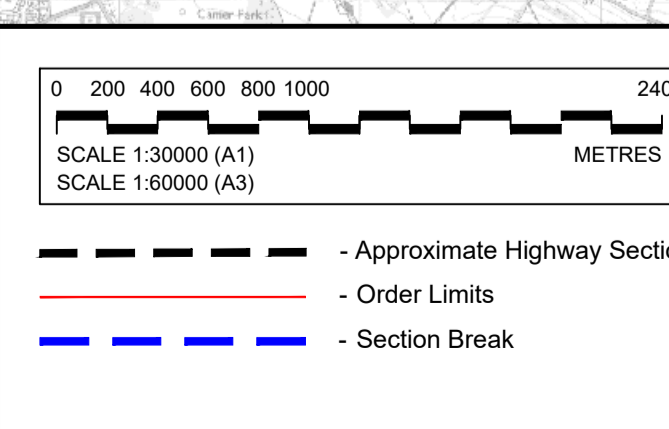
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1.2 Scheme Overview



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Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd
P01.3	SD	2021/09/23				



Section Layout Key:

1	Section S1 (Sheets 1 - 8)	10	Section S10 (Sheets 1 - 21)
1A	Section S1A (Sheets 1 - 3)	11	Section S11 (Sheets 1 - 22)
2	Section S2 (Sheets 1 - 21)	12	Section S12 (Sheets 1 - 24)
3	Section S3 (Sheets 1 - 10)	13	Section S13 (Sheets 1 - 14)
4	Section S4 (Sheets 1 - 4)	14	Section S14 (Sheets 1 - 18)
9	Section S9 (Sheets 1 - 24)		

NOTE: Development of the Project design has resulted in the removal of some sheets forming part of the Environmental Masterplan, where acquisition of land for the Project is no longer required. In this instance, the original sheet numbering has been retained and therefore the sheet numbering shown on this Scheme Overview plan is not always consecutive.

For information, the following sheets have been omitted:

Section 1

- Sheet 7 (HE540039-CJV-EGN-S01_EN000000_Z-DR-ZZ-00008)

Section 2

- Sheet 10 (HE540039-CJV-EGN-S02_EN000000_Z-DR-ZZ-00011)
- Sheet 12 (HE540039-CJV-EGN-S02_EN000000_Z-DR-ZZ-00013)
- Sheet 14 (HE540039-CJV-EGN-S02_EN000000_Z-DR-ZZ-00015)

Client: national highways

Project: LOWER THAMES CROSSING

Status	Application Document Number	Original Size	Revision
	TR010032/APP/6.2	A1	P01.3
Drawing title	Drawing Number		
ENVIRONMENTAL MASTERPLAN SCHEME OVERVIEW	HE540039-CJV-EGN-SZZ_EN000000_Z-DR-ZZ-00002		

1.3 Environmental Masterplan Legend

EXISTING FEATURES

General Features

- Existing WCH Route
- Overhead Power Lines

Environmental Features

- Retained Woodland, Trees and Hedges (within Order Limits)
- Retained Woodland, Trees and Hedges (outside Order Limits)
- Waterbodies / Ponds
- Watercourses
- Tree Preservation Orders Area
- Individual Tree Preservation Orders
- Veteran Tree

PROPOSED PROJECT FEATURES

- Order Limits
- Permanent Acquisition of Land

General Project Features

- Existing Overhead Power Lines to be Removed
- Indicative Diverted and Modified Overhead Power Lines
- Proposed / Improved WCH Route
- Diverted / Redesignated WCH Route
- Proposed Carriageway
- Proposed Retaining Wall
- Proposed Cutting
- Proposed Embankment
- Proposed False Cutting Earthwork (up to 4m height above carriageway level typically at 1(v) 4(h) gradient)
- Proposed Watercourse Diversion
- Proposed Attenuation Ponds / Water Bodies
- Proposed Highway Estate Boundary Fencing
- Reinstated HS1 'Meshed' Fencing
- Proposed Security Fencing (incorporating highway boundary fence)
- Proposed Fencing Gates
- Proposed Tunnel Portal Building Outline (sub-surface)
- Proposed Highway Lighting and Gantry
- Proposed Green Bridge
- Proposed Traveller Site Replacement

General Project Features cont.

- Proposed Replacement Open Space
- Proposed Replacement Common Land
- Proposed Recreational Sites

PROPOSED LANDSCAPE ELEMENTS

Grassland (LE 1)

- LE 1.3 Species Rich Grassland
- LE 1.31 Species Rich Chalk Grassland
- LE 1.32 Species Rich Annual Wildflower Grassland
- LE 1.4 Rock and Scree

Planting (LE 2)

- LE 2.1 Woodland
- LE 2.11 Woodland With Non-Native Species
- LE 2.14 Wet / Carr Woodland
- LE 2.2 Woodland Edge
- LE 2.22 Scrub Woodland
- LE 2.4 Linear Belt of Shrubs and Trees
- LE 2.5 Shrubs With Intermittent Trees
- LE 2.7 Scattered Trees
- LE 2.8 Scrub / Scattered Scrub

Hedges (LE 4)

- LE 4.3 Native Species Hedge (untrimmed)
- LE 4.4 Native Hedgerow With Trees

Individual Trees (LE 5)

- LE 5.1 Individual Trees

Wetland Habitats (LE 6)

- LE 6.11 Water Bodies – Standing Water
- LE 6.12 Water Bodies and Associated Plants – Shallow Scrape Habitat
- LE 6.2 Banks and Ditches
- LE 6.21 Banks and Ditches – High Tide Roost Features
- LE 6.4 Wet Grassland

General Project Features cont.

- LE 6.41 Marsh and Wet Grassland – Coastal Grazing Marsh
- LE 7.2 Green Roof
- LE 7.3 Car Park
- LE 7.4 Reinforced Earth Bund

Ecological Habitats (LE 8)

- LE 8.1 Open Mosaic Habitat
- LE 8.2 Ancient Woodland Compensation Planting
- LE 8.3 Woodland Mitigation Planting
- LE 8.4 Wetland / Fenland Creation
- LE 8.5 Ecology Pond (Indicative symbol only)
- LE 8.6 Acid Grassland Soil Salvage
- LE 8.7 Nitrogen Deposition (NDEP) Compensation Area

Earthworks

- Proposed Contours

PROPOSED ENVIRONMENTAL ELEMENTS

Noise (E 1)

- E 1.2 Acoustic Barrier-Built Elements (typically incorporating highway boundary fence)

Water (E 2)

- Flood Compensation Areas (E2-FCA)
- Flood Defence (E2-FD)

Ecological (E 3)

- E 3.2 Ecological Habitat Creation and Receptor Sites for Protected Species
- E 3.2 Ecological Protection Measures – Dormouse Boxes
- E 3.2 Ecological Protection Measures – Bat / Bird Boxes
- E 3.2 Ecological Protection Measures – Ecological Culvert
- E 3.2 Ecological Protection Measures – Bat Barn Block
- E 3.2 Ecological Protection Measures – Ecological Fencing (incorporating highway boundary fence)

NOTES:

Land Reinstatement

The Environmental Masterplan is intended to show the permanent landscaping and environmental mitigation features that are embedded in the operational design. Land temporarily impacted by construction would be reinstated to its former condition and composition upon completion, as far as reasonably practicable and as provided for in DCO Article 35, unless otherwise shown in the Environmental Masterplan.

WCH Terminology and Route Information

The term 'WCH Routes' (which includes Public Rights of Way) refers to routes for walkers, cyclists and horse riders and is used in the broad sense within the Environmental Masterplan to refer to routes intended for at least one (but not necessarily more than one) of those users. For further information, please refer to the Rights of Way and Access Plans (Application Document 2.7) and the draft Development Consent Order (Application Document 3.1).

Veteran Trees

Veteran trees shown on the Environmental Masterplan include those identified in the Ancient Tree Inventory and project-identified potential ancient or veteran trees.

Outline Landscape and Ecological Management Plan

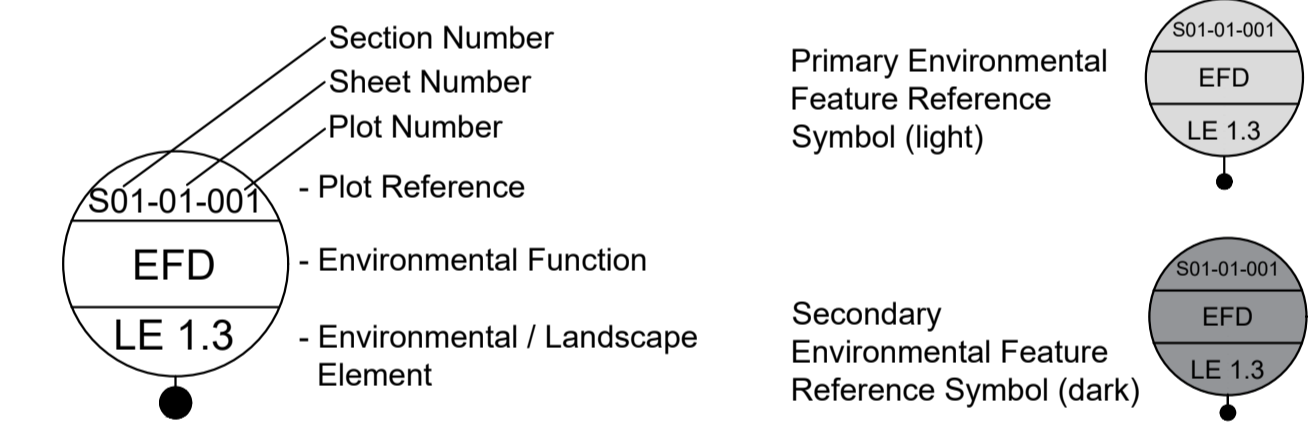
The outline Landscape and Ecology Management Plan (LEMP) separately sets out the proposed management for the environmental / landscape elements shown on the Environmental Masterplan. The Environment Masterplan secures the spatial extent and location of the environmental / landscape elements detailed within the outline LEMP. The outline LEMP details the management regimes, management expectations and monitoring requirements for the proposals in each land parcel shown on the Environmental Masterplan. It focuses on the management requirements for land parcels to be permanently acquired within the Order Limits and which perform specific landscape and ecological mitigation functions for the Project. For further detail regarding management requirements and principles, please refer to the outline LEMP (Application Document 6.7).

Existing WCH Routes

Existing WCH route information is based on Local Authority data. For further details, please refer to the relevant Local Authority Definitive Public Right of Way Map and Statement.

Environmental Feature Reference Symbol

An Environmental Feature Reference Symbol is provided for each environmental / landscape element. This contains a Plot Reference, the Environmental Function and the specific Landscape / Environmental Element. The Plot Reference is unique to each element labelled, and comprises the Section number, Sheet number and unique Plot number. Additional Environmental Feature Reference Symbols have been attributed to elements which span more than one page. The differences between the initial (Primary) Environmental Feature Reference Symbol and any additional (Secondary) versions are shown below.



Environmental Functions (EF)

- 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
- EFJ Agricultural / Highway Boundary
- EFK Access

Project Design Report

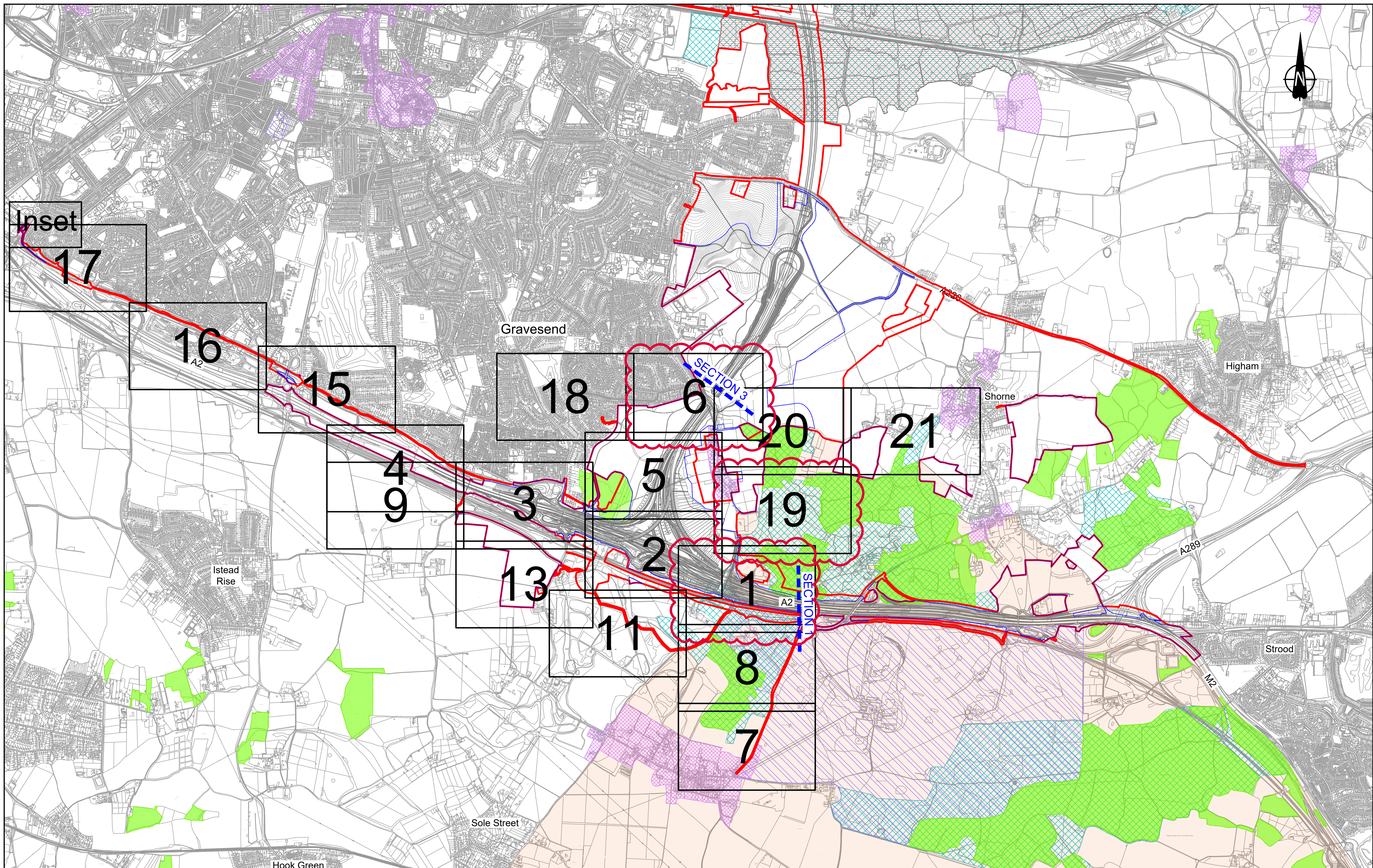
For further detail on the Landscape Design and Special Category Land shown within these plans, as well as the associated background and approach, please refer to the Project Design Report, Volume 2 Book of Plans, and Design Principles document (Application Documents 7.4, 6.2 and 7.5 respectively).

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Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd
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	Client	Status	Initial Status or WIP	Original Size	Revision
	Project	Application Document Number	TR010032/APP/6.2	A1	P01.6
LOWER THAMES CROSSING		Drawing title	ENVIRONMENTAL MASTERPLAN LEGEND		
		Drawing Number	HE540039-CJV-EGN-SZZ_EN000000_Z-DR-ZZ-00001		

1.4 Section 2



Inset
17

16
A2

15

18

6
SECTION 3

20

21

4
9

3

5

19

Istead Rise

13

2

1
A2

SECTION 1

11

8

7

A289

Strood

M2

Sole Street

Hook Green

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0 50 100 150 200 250 300 350 400 450 500
SCALE 1:5000 (A1)
SCALE 1:10000 (A3)
METRES

P01	S2	25/10/2022	DCO Application	SA	PS	MH
P02	S8	10/11/2023	Revision following S51 advice	PS	SK	BF
P03	S8	17/11/2023	Deadline 7	GH1	RO	BB
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Appr'd

Notes:
1. The sheets presented cover the full extent of the Order Limits. The sheet numbering for section 2 is not sequential due to alteration to the Order Limits prior to submissions resulting in sheets 10, 12, and 14 being removed in the submission set

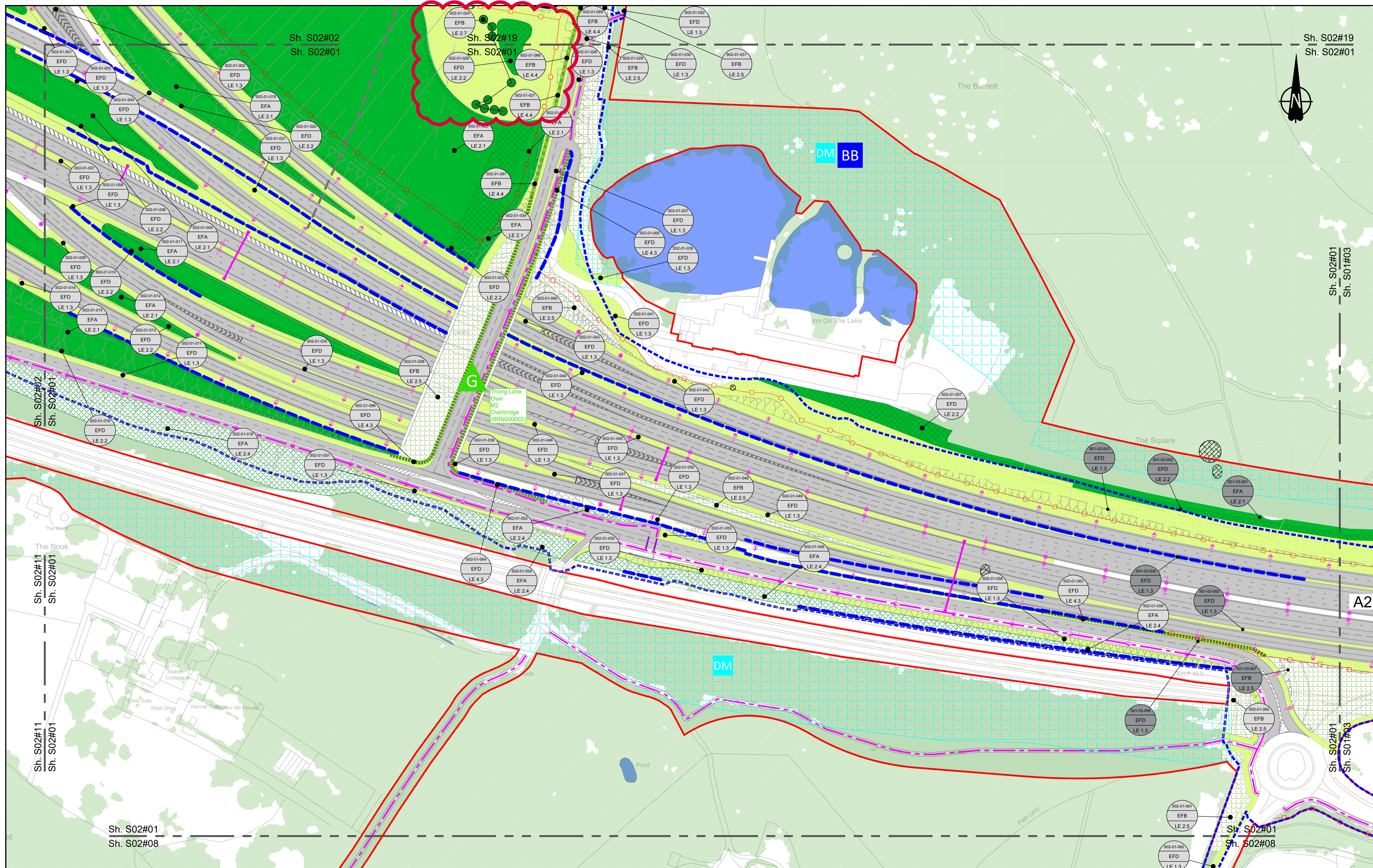
LEGEND

Order Limits	Registered Parks and Gardens
Permanent Acquisition of Land	Ramsar Sites
Area of Outstanding National Beauty (AONB)	Ancient Woodland
Site of Special Scientific Interest (SSSI)	Conservation Area

national highways

Project
LOWER THAMES CROSSING

Status	DCO Examination	Original Size	A1	Revision	P03
Application Document Number	TR010032/APP/6.2	Scale	AS SHOWN		
Drawing title	ENVIRONMENTAL MASTERPLAN OVERVIEW PLAN SECTION 2				
Drawing Number	HE540039-CJV-EGN-S02_EN000000_Z-DR-ZZ-00001				



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SCALE 1:1250 (A1)
SCALE 1:2500 (A3)

Section Overview Sheet. Refer to section overview plan at the start of the section.

P01	S2	25/10/2022	DCO Application	SA	PS	MH
P02	S8	19/07/2023	Deadline 2	PS	SK	BF
P03	S8	17/11/2023	Deadline 7	GH1	RO	BB

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chk'd	Appr'd

Environmental Mitigation Legend: Refer to Main Legend for baseline and scheme features (Dwg: HE540039-CJV-EGN-SZ_EN000000_Z-DR-ZZ-00001).

Order Limits	Planting (LE 2)	Individual Trees (LE 5)	Ecological Habitats (LE 8)	Noise (E 1)	Ecological (E 3)
Permanent Acquisition of Land	Grassland (LE 1)	Wetland Habitats (LE 6)	Hard Landscape Features (LE 7)	Water (E 2)	Ecological (E 3)
Hedges (LE 4)	Earthworks	Wetland Habitats (LE 6)	Earthworks	Water (E 2)	Ecological (E 3)

Client: **national highways**

Project: **LOWER THAMES CROSSING**

Status: **DCO Examination**

Application Document Number: **TR010032/APP/6.2**

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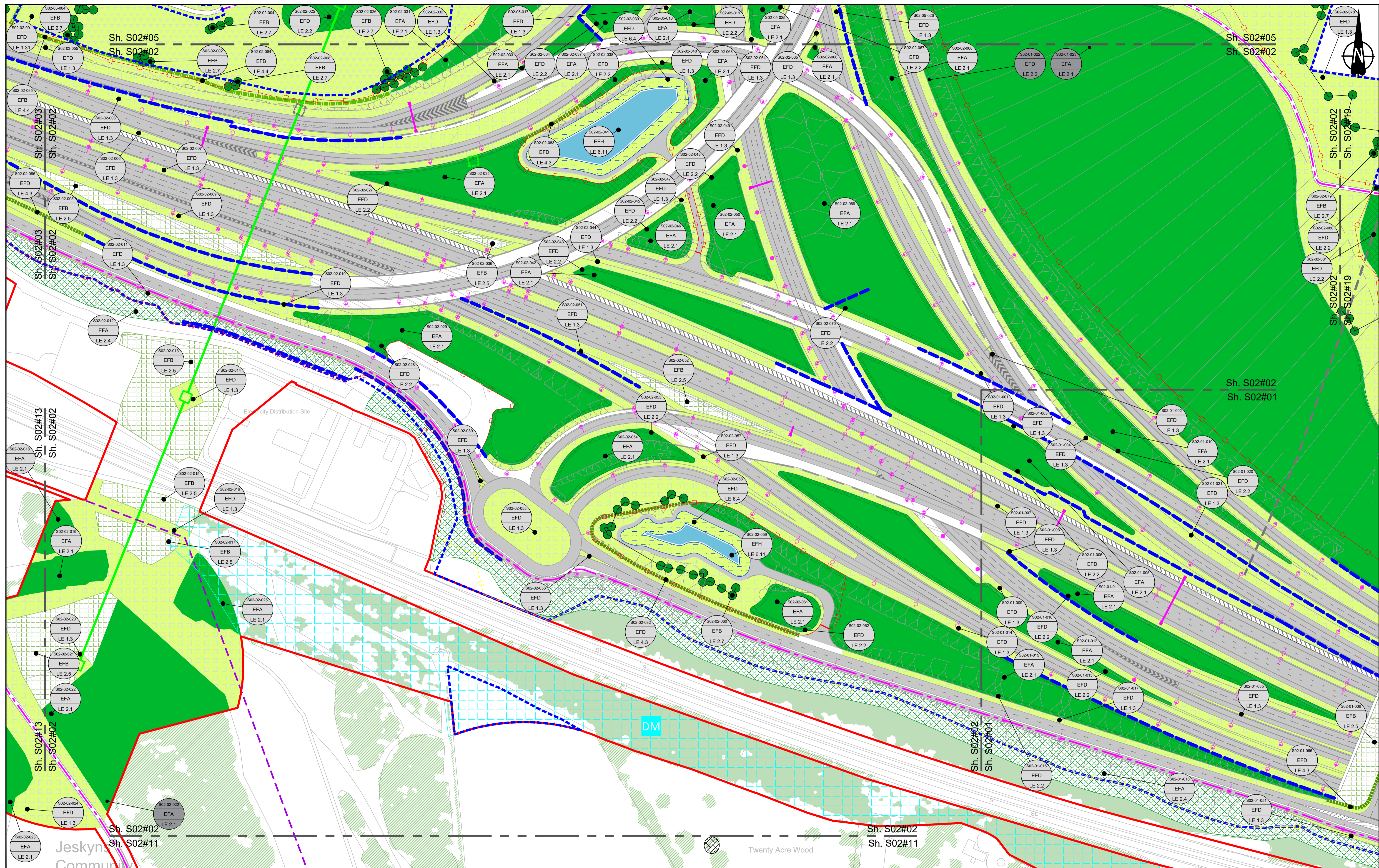
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Revision: **P03**

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Drawing Number: **HE540039-CJV-EGN-S02_EN000000_Z-DR-ZZ-00002**

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SCALE 1:2500 (A3)
METRES

Section Overview Sheet: Refer to section overview plan at the start of the section.

P01	S2	25/10/2022	DCO Application	LD	PS	MH
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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd

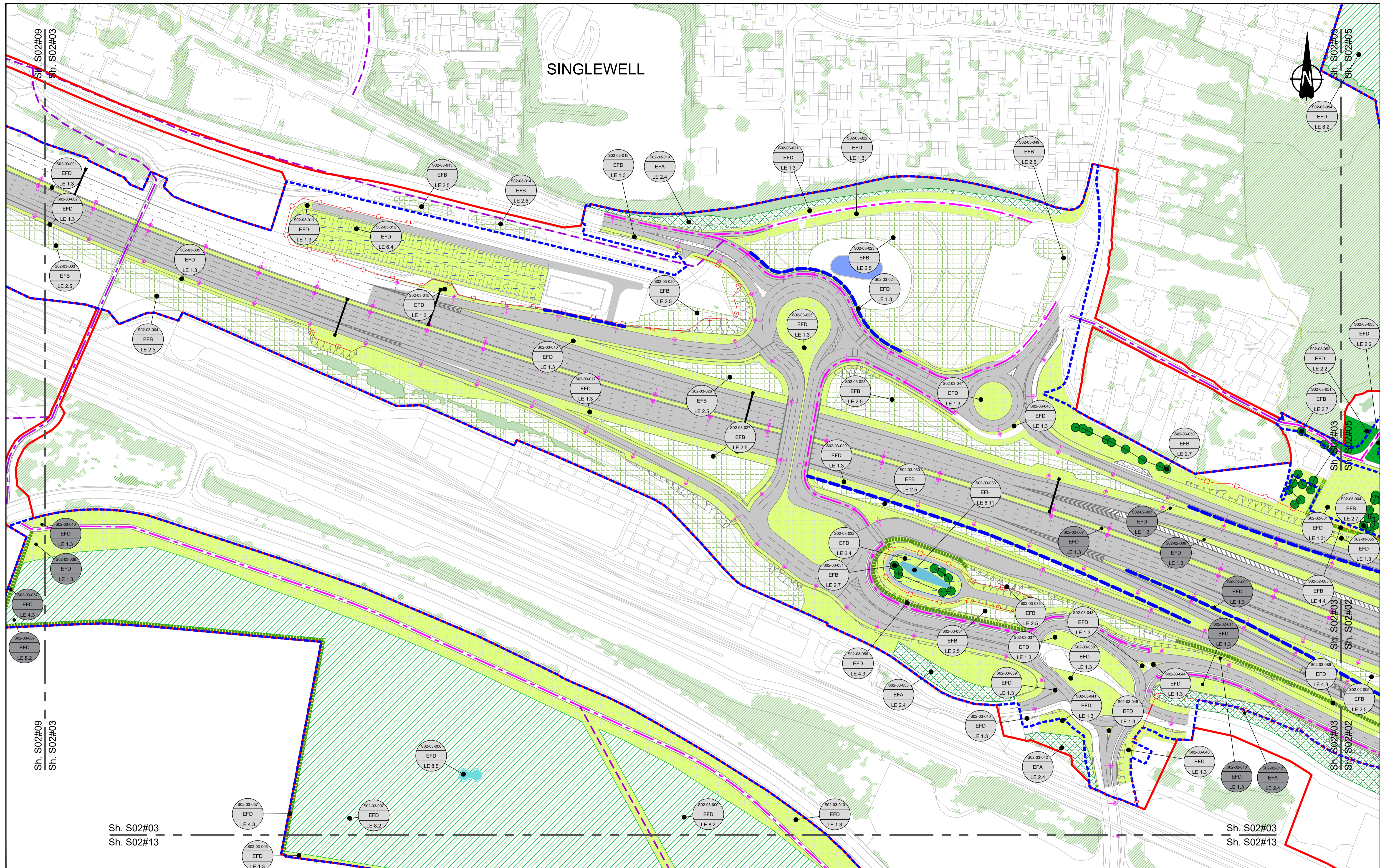
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Order Limits Order Limits	Planting (LE 2) LE 2.1 Woodland LE 2.11 Woodland With Non-Native Species LE 2.14 Wet / Carr Woodland LE 2.2 Woodland Edge LE 2.22 Scrub Woodland LE 2.4 Linear Belt of Shrubs and Trees	Individual Trees (LE 5) LE 5.1 Individual Trees LE 5.2 Scattered Trees	Wetland Habitats (LE 6) LE 6.11 Water Bodies - Standing Water LE 6.12 Water Bodies and Associated Plants - Shallow Scrape LE 6.2 Banks and Ditches LE 6.21 Banks and Ditches - High Tide Root Features	Ecological Habitats (LE 8) LE 8.1 Open Mosaic Habitat LE 8.2 Ancient Woodland Compensation Planting LE 8.3 Woodland Mitigation Planting LE 8.4 Wetland / Farmland Creation LE 8.5 Ecology Pond (indicative symbol only) LE 8.6 Acid Grassland Soil Salvage	Ecological (E 3) E 3.2 Ecological Habitat Creation and Receptor sites for Protected Species E 3.2 Dormouse Boxes E 3.2 Bat Boxes E 3.2 Ecological Culvert E 3.2 Bat Barn Block
Grassland (LE 1) LE 1.3 Species Rich Chalk Grassland LE 1.32 Species Rich Annual Wildflower Grassland LE 1.4 Rock and Scree	Hedges (LE 4) LE 4.3 Native Species Hedge (untrimmed) LE 4.4 Native Hedgerow With Trees	Wetland Habitats (LE 6) LE 6.41 Marsh and Wet Grassland - Coastal Grazing Marsh LE 6.2 Wet Grassland	Hard Landscape Features (LE 7) LE 7.4 Reinforced Earth Band	Earthworks Proposed Contours	Noise (E 1) E 1.2 Acoustic Barrier - Built Elements (typically inc. Highway boundary fence)
Water (E 2) Flood Compensation Areas (E 2-FCA) Flood Defence (E 2-FD)	Ecological (E 3) E 3.2 Ecological Fencing (inc. highway boundary fence) E 3.2 Barn Owl Box	Water (E 2) LE 2.5 Shrubs With Intermittent Trees LE 2.7 Scattered Trees	Ecological (E 3) E 3.2 Ecological Fencing (inc. highway boundary fence) E 3.2 Barn Owl Box	Water (E 2) LE 2.5 Shrubs With Intermittent Trees LE 2.7 Scattered Trees	Water (E 2) LE 2.5 Shrubs With Intermittent Trees LE 2.7 Scattered Trees

Client: **national highways**

Project: **LOWER THAMES CROSSING**

Status: PINS Submission	Application Document Number: TR010032/APP/6.2	Original Size: A1	Revision: P02
Drawing title: ENVIRONMENTAL MASTERPLAN SECTION 2 SHEET 2			
Drawing Number: HE540039-CJV-EGN-S02_EN000000_Z-DR-ZZ-00003			
HE540039-CJV-EGN-S02_EN000000_Z-DR-ZZ-00003.dwg			



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0 10 20 30 40 50 60 70 80 90 100 METRES

SCALE 1:1250 (A1)
SCALE 1:2500 (A3)

Section Overview Sheet: Refer to section overview plan at the start of the section.

P01	S2	25/10/2022	DCO Application	SA	PS	MH
P02	S9	19/07/2023	Deadline 2	LD	SK	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chkd	Apprv'd

Environmental Mitigation Legend: Refer to Main Legend for baseline and scheme features (Dwg: HE540039-CJV-EGN-SZZ_EN000000_Z-DR-ZZ-00001).

Order Limits	Planting (LE 2)	Individual Trees (LE 5)
Order Limits	LE 2.1 Woodland	LE 5.1 Individual Trees
Permanent Acquisition of Land	LE 2.11 Woodland With Non-Native Species	Wetland Habitats (LE 6)
Grassland (LE 1)	LE 2.14 Wet / Carr Woodland	LE 6.11 Water Bodies - Standing Water
LE 1.3 Species Rich Grassland	LE 2.2 Woodland Edge	LE 6.12 Water Bodies and Associated Plants - Shallow Scraps
LE 1.31 Species Rich Chalk Grassland	LE 2.22 Scrub Woodland	LE 6.2 Banks and Ditches
LE 1.32 Species Rich Annual Wildflower Grassland	LE 2.4 Linear Belt of Shrubs and Trees	LE 6.21 Banks and Ditches - High Tide Root Features
LE 1.4 Rock and Scree		
		Hard Landscape Features (LE 7)
		LE 7.4 Reinforced Earth Band
		Earthworks
		Proposed Contours

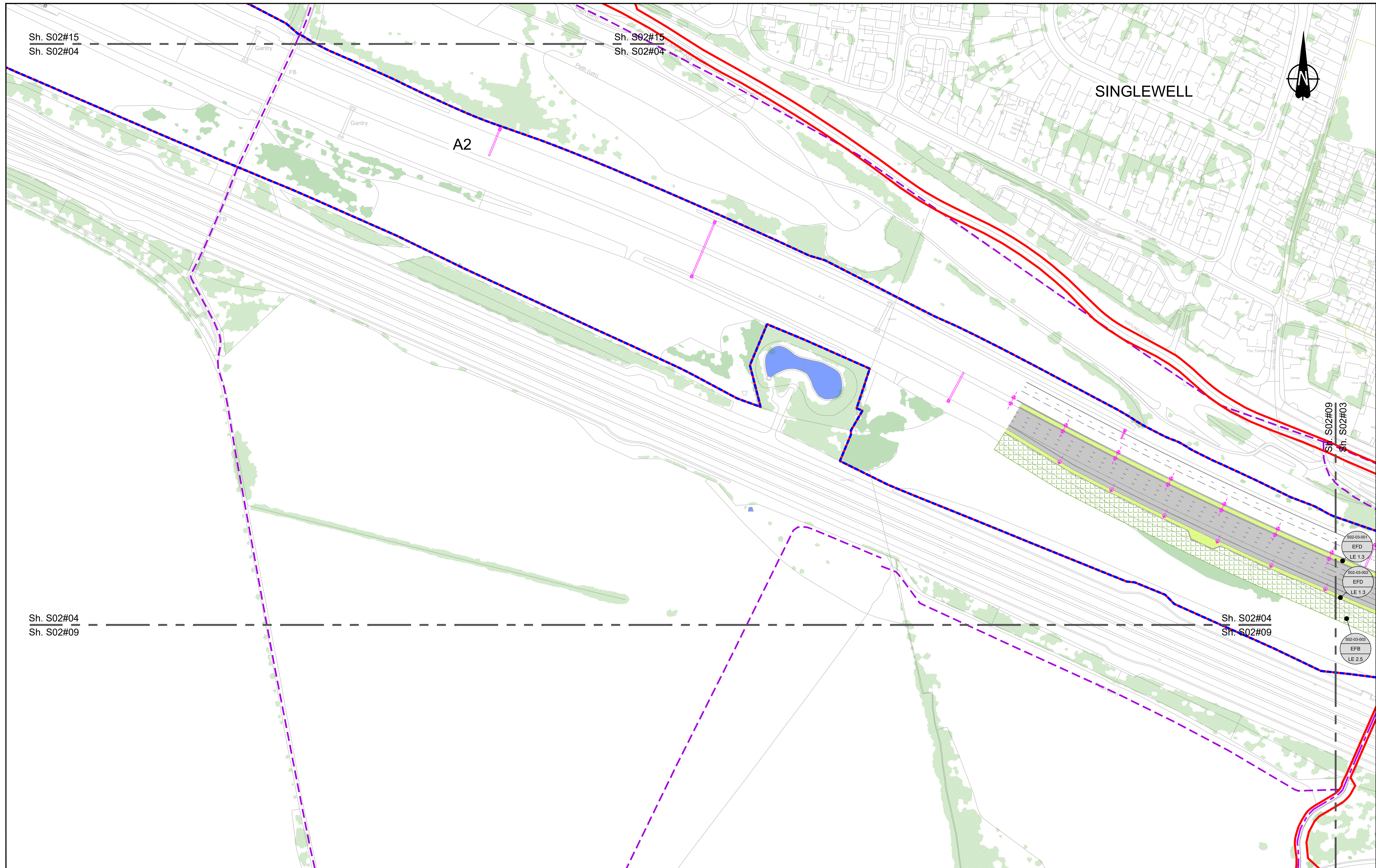
Ecological Habitats (LE 8)	Noise (E 1)	Ecological (E 3)
LE 8.1 Open Mosaic Habitat	LE 1.2 Acoustic Barrier - Built Elements (typically inc. highway boundary fence)	E 3.2 Ecological Habitat Creation and Receptor sites for Protected Species
LE 8.2 Ancient Woodland Compensation Planting	Water (E 2)	E 3.2 Domestic Boxes
LE 8.3 Woodland Mitigation Planting	Flood Compensation Areas (E 2-FCA)	E 3.2 Bat Boxes
LE 8.4 Wetland / Farmland Creation	Flood Defence (E 2-FD)	E 3.2 Ecological Culvert
LE 8.5 Ecology Pond (indicative symbol only)		E 3.2 Bat Barn Block
LE 8.6 Acid Grassland Soil Salvage		E 3.2 Barn Owl Box
		E 3.2 Ecological Fencing (inc. highway boundary fence)

Client: **national highways**

Project: **LOWER THAMES CROSSING**

Status: PINS Submission	Original Size: A1	Revision: P02
Application Document Number: TR010032/APP/6.2	Scale: 1:1250	
Drawing title: ENVIRONMENTAL MASTERPLAN SECTION 2 SHEET 3		
Drawing Number: HE540039-CJV-EGN-S02_EN000000_Z-DR-ZZ-00004		

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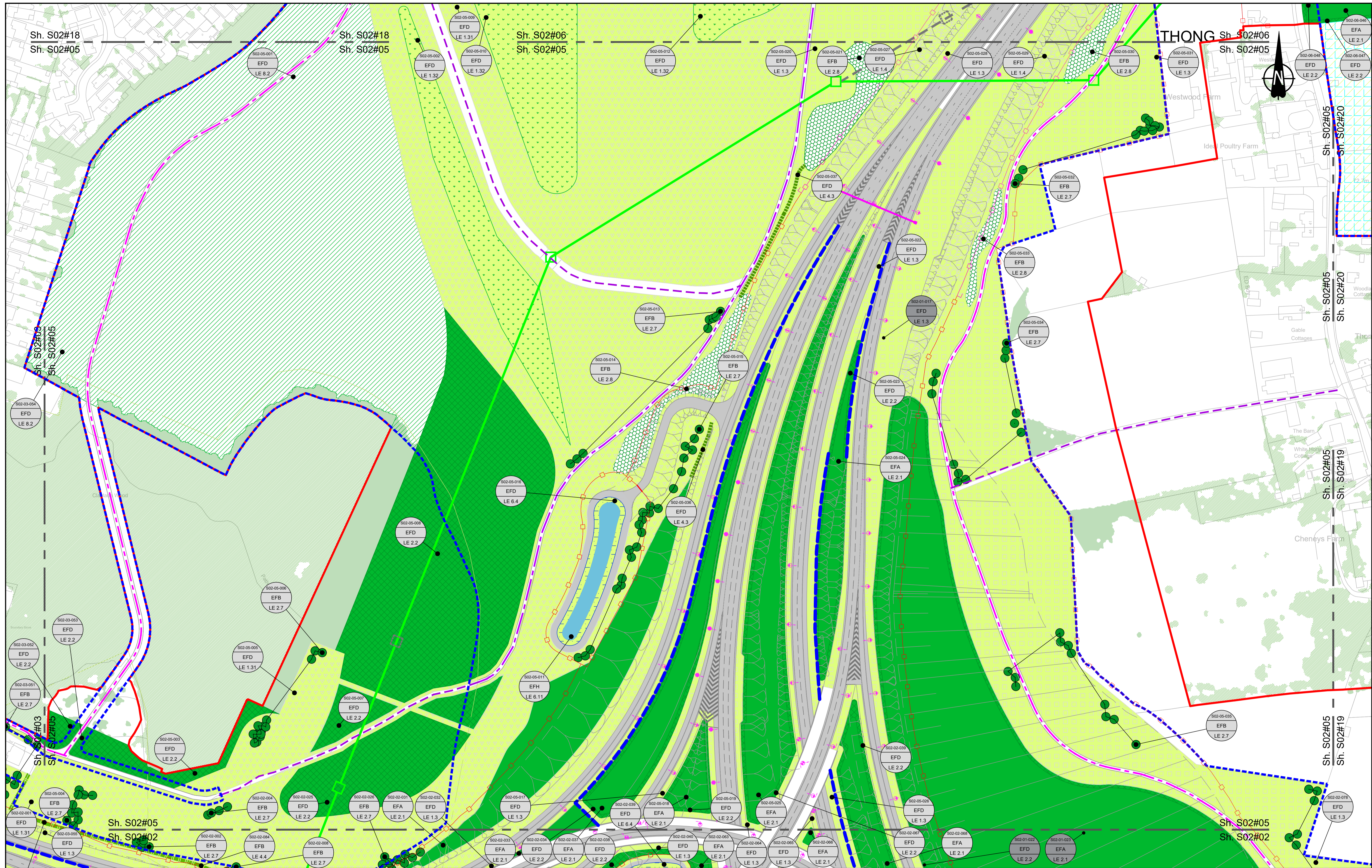
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Order Limits Permanent Acquisition of Land Grassland (LE 1) LE 1.3 Species Rich Grassland LE 1.31 Species Rich Chalk Grassland LE 1.32 Species Rich Annual Wildflower Grassland LE 1.4 Rock and Scree	Planting (LE 2) LE 2.1 Woodland LE 2.11 Woodland With Non-Native Species LE 2.14 Wet / Carr Woodland LE 2.2 Woodland Edge LE 2.22 Scrub Woodland LE 2.4 Linear Belt of Shrubs and Trees	LE 2.5 Shrubs With Intermittent Trees LE 2.7 Scattered Trees LE 2.8 Scrub / Scattered Scrub Hedges (LE 4) LE 4.3 Native Species Hedge (untrimm'd) LE 4.4 Native Hedgerow With Trees	Individual Trees (LE 5) LE 5.1 Individual Trees Wetland Habitats (LE 6) LE 6.11 Water Bodies - Standing Water LE 6.12 Water Bodies and Associated Plants - Shallow Scrape LE 6.2 Barks and Ditches LE 6.21 Banks and Ditches - High Tide Root Features	LE 6.4 Wet Grassland LE 6.41 Marsh and Wet Grassland - Coastal Grazing Marsh Hard Landscape Features (LE 7) LE 7.4 Reinforced Earth Bund Earthworks Proposed Contours	Ecological Habitats (LE 8) LE 8.1 Open Mosaic Habitat LE 8.2 Ancient Woodland Compensation Planting LE 8.3 Woodland Mitigation Planting LE 8.4 Wetland / Farmland Creation LE 8.5 Ecology Pond (indicative symbol only) LE 8.6 Acid Grassland Soil Salvage	LE 8.7 Nitrogen Deposition (NDEP) Compensation Area Noise (E 1) E 1.2 Acoustic Barrier-Built Elements (typically inc. highway boundary fence) Water (E 2) Flood Compensation Areas (E 2-FCA) Flood Defence (E 2-FD)	Ecological (E 3) E 3.2 Ecological Habitat Creation and Receptor sites for Protected Species E 3.2 Dormouse Boxes E 3.2 Bat Boxes E 3.2 Ecological Culvert E 3.2 Bat Barn Block E 3.2 Ecological Fencing (inc. highway boundary fence)	E 3.2 Barn Owl Box
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Client: **national highways**

Project: **LOWER THAMES CROSSING**

Status: Initial Status or WIP	Original Size: A1	Revision: P01.4
Application Document Number: TR010032/APP/6.2	Scale: 1:1250	
Drawing title: ENVIRONMENTAL MASTERPLAN SECTION 2 SHEET 4		
Drawing Number: HE540039-CJV-EGN-S02_EN000000_Z-DR-ZZ-00005		



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SCALE 1:1250 (A1)
SCALE 1:2500 (A3)

Section Overview Sheet: Refer to section overview plan at the start of the section.

PO2	S9	19/07/2023	Deadline 2	LD	SK	BF
PO3	S9	24/08/2023	Deadline 3	LD	RO	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

Environmental Mitigation Legend: Refer to Main Legend for baseline and scheme features (Dwg: HE540039-CJV-EGN-SZ2_EN000000_Z-DR-ZZ-00001).

Order Limits Order Limits Permanent Acquisition of Land Grassland (LE 1) LE 1.3 Species Rich Chalk Grassland LE 1.32 Species Rich Annual Wildflower Grassland LE 1.4 Rock and Scree	Planting (LE 2) LE 2.1 Woodland LE 2.11 Woodland With Non-Native Species LE 2.14 Wet / Carr Woodland LE 2.2 Woodland Edge LE 2.22 Scrub Woodland LE 2.4 Linear Belt of Shrubs and Trees LE 2.5 Shrubs With Intermittent Trees LE 2.7 Scattered Trees LE 2.8 Scrub / Scattered Scrub Hedges (LE 4) LE 4.3 Native Species Hedge (untrimmed) LE 4.4 Native Hedgerow With Trees	Individual Trees (LE 5) LE 5.1 Individual Trees Wetland Habitats (LE 6) LE 6.11 Water Bodies - Standing Water LE 6.12 Water Bodies and Associated Plants - Shallow Scrape LE 6.2 Banks and Ditches LE 6.21 Banks and Ditches - High Tide Roost Features LE 6.4 Wet Grassland LE 6.41 Marsh and Wet Grassland - Coastal Grazing Marsh Hard Landscape Features (LE 7) LE 7.4 Reinforced Earth Bund Earthworks Proposed Contours	Ecological Habitats (LE 8) LE 8.1 Open Mosaic Habitat LE 8.2 Ancient Woodland Compensation Planting LE 8.3 Woodland Mitigation Planting LE 8.4 Wetland / Fenland Creation LE 8.5 Ecology Pond (indicative symbol only) LE 8.6 Acid Grassland Soil Salvage Ecological (E 3) E 3.2 Ecological Habitat Creation and Receptor sites for Protected Species E 3.2 Dormouse Boxes E 3.2 Bat Boxes E 3.2 Ecological Culvert E 3.2 Bat Barn Block E 3.2 Barn Owl Box E 3.2 Ecological Fencing (inc. highway boundary fence)	Noise (E 1) E 1.2 Acoustic Barrier-Built Elements (typically inc. highway boundary fence) Water (E 2) Flood Compensation Areas (E 2-FCA) Flood Defence (E 2-FD)
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Client: national highways

Project: LOWER THAMES CROSSING

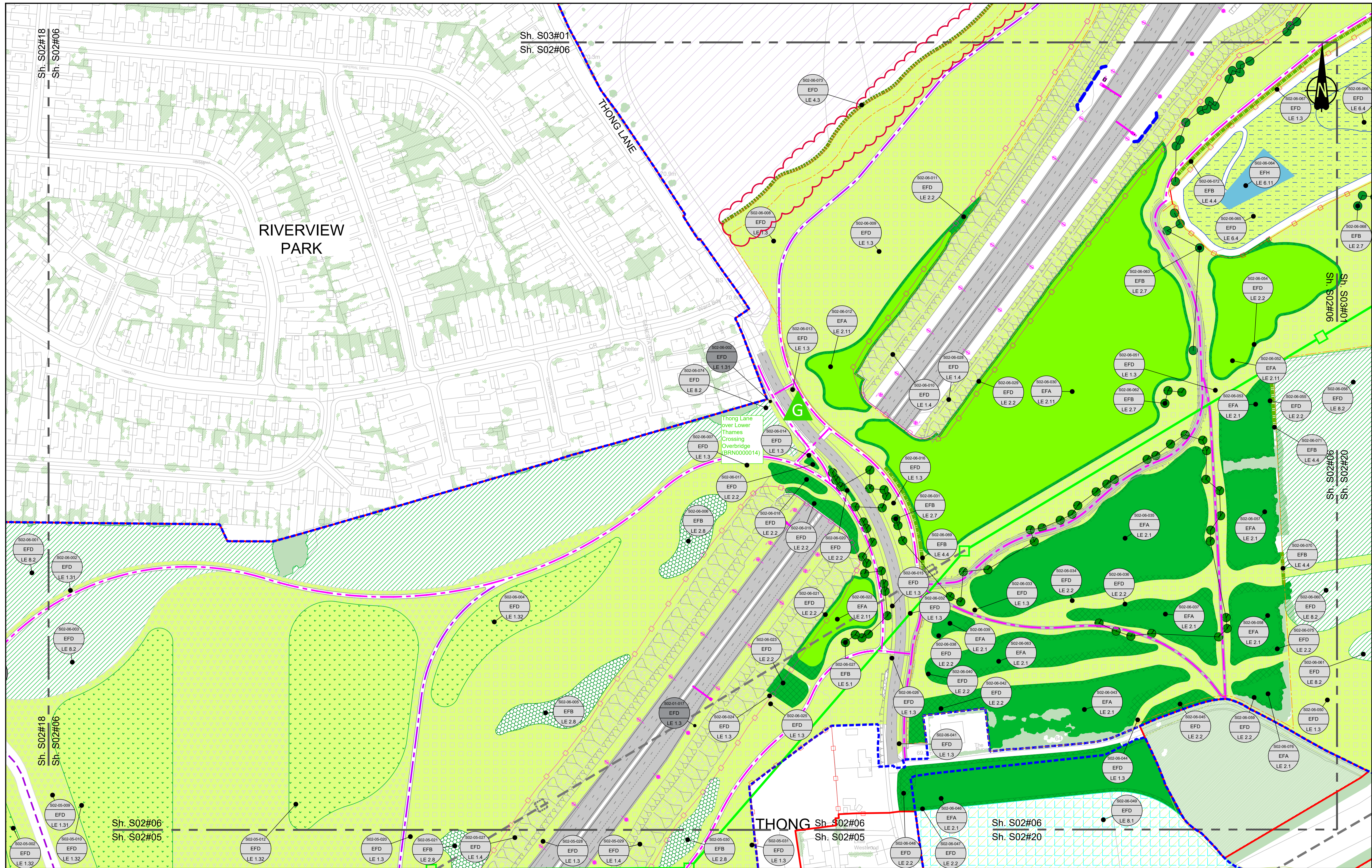
Status: DCO Application
Application Document Number: TR010032/APP/6.2

Original Size: A1
Revision: P03
Scale: 1:1250

Drawing Title: ENVIRONMENTAL MASTERPLAN SECTION 2 SHEET 5

Drawing Number: HE540039-CJV-EGN-S02_EN000000_Z-DR-ZZ-00006

HE540039-CJV-EGN-S02_EN000000_Z-DR-ZZ-00006.dwg



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0 10 20 30 40 50 60 70 80 90 100 METRES

SCALE 1:1250 (A1)
SCALE 1:2500 (A3)

Section Overview Sheet: Refer to section overview plan at the start of the section.

P02	S9	19/07/2023	Deadline 2	LD	RO	BF
P03	S9	24/08/2023	Deadline 3	LD	RO	BF
P04	S8	17/11/2023	Deadline 7	GH1	RO	BB

Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

Environmental Mitigation Legend: Refer to Main Legend for baseline and scheme features (Dwg: HE540039-CJV-EGN-SZZ_EN000000_Z-DR-ZZ-00001).

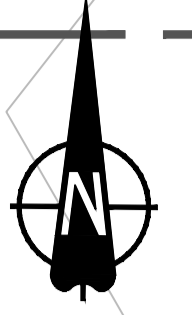
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	Permanent Acquisition of Land		LE 2.1 Woodland		Water Bodies (LE 6)
	Grassland (LE 1)		LE 2.1.1 Woodland with Non-Native Species		Wet Grassland (LE 6.4)
	LE 1.3 Species Rich Grassland		LE 2.2 Woodland with Carr Woodland		LE 8.2 Ancient Woodland
	LE 1.3.1 Species Rich Chalk Grassland		LE 2.2.2 Woodland Edge		LE 8.3 Woodland Mitigation
	LE 1.3.2 Species Rich Annual Wildflower Grassland		LE 2.2.2.1 Native Species Woodland		LE 8.4 Wetland / Fenland Creation
	LE 1.4 Rock and Scree		LE 4.3 Native Species Hedge (untrimmed)		LE 8.5 Ecology Pond (indicative symbol only)
	LE 2.5 Shrubs with Intermittent Trees		LE 4.4 Native Hedgerow with Trees		LE 8.6 Acid Grassland Soil Salvage
	LE 2.8 Scrub / Scattered Scrub		Hard Landscape Features (LE 7)		Ecological Habitat Creation (E 3.2)
	Hedges (LE 4)		LE 7.4 Reinforced Earth Bund		Ecological Fencing (inc. highway boundary fence) (E 3.2)
	LE 6.2 Banks and Ditches		Ecology Pond (E 2-FD)		Ecological Culvert (E 3.2)
	LE 6.2.1 Banks and Ditches - High Tide Roost Features		Noise (E 1)		E 3.2 Bat Boxes
	Proposed Contours		E 1.2 Acoustic Barrier - Built Elements (typically inc. highway boundary fence)		E 3.2 Dormouse Boxes
	Ecological Fencing (inc. highway boundary fence) (E 3.2)		Flood Compensation Areas (E 2-FCA)		E 3.2 Bat Block

	LE 8.7 Nitrogen Deposition (NDEP) Compensation Area		Ecological Habitat Creation and Receptor sites for Protected Species
	Noise (E 1)		Ecological Fencing (inc. highway boundary fence) (E 3.2)
	E 1.2 Acoustic Barrier - Built Elements (typically inc. highway boundary fence)		Ecological Culvert (E 3.2)
	Flood Compensation Areas (E 2-FCA)		E 3.2 Bat Boxes
	Flood Defence (E 2-FD)		E 3.2 Dormouse Boxes
	Ecological Fencing (inc. highway boundary fence) (E 3.2)		E 3.2 Bat Block

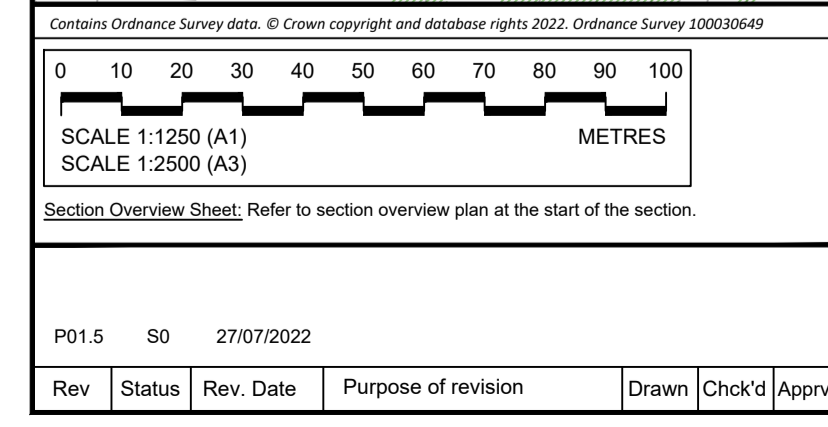
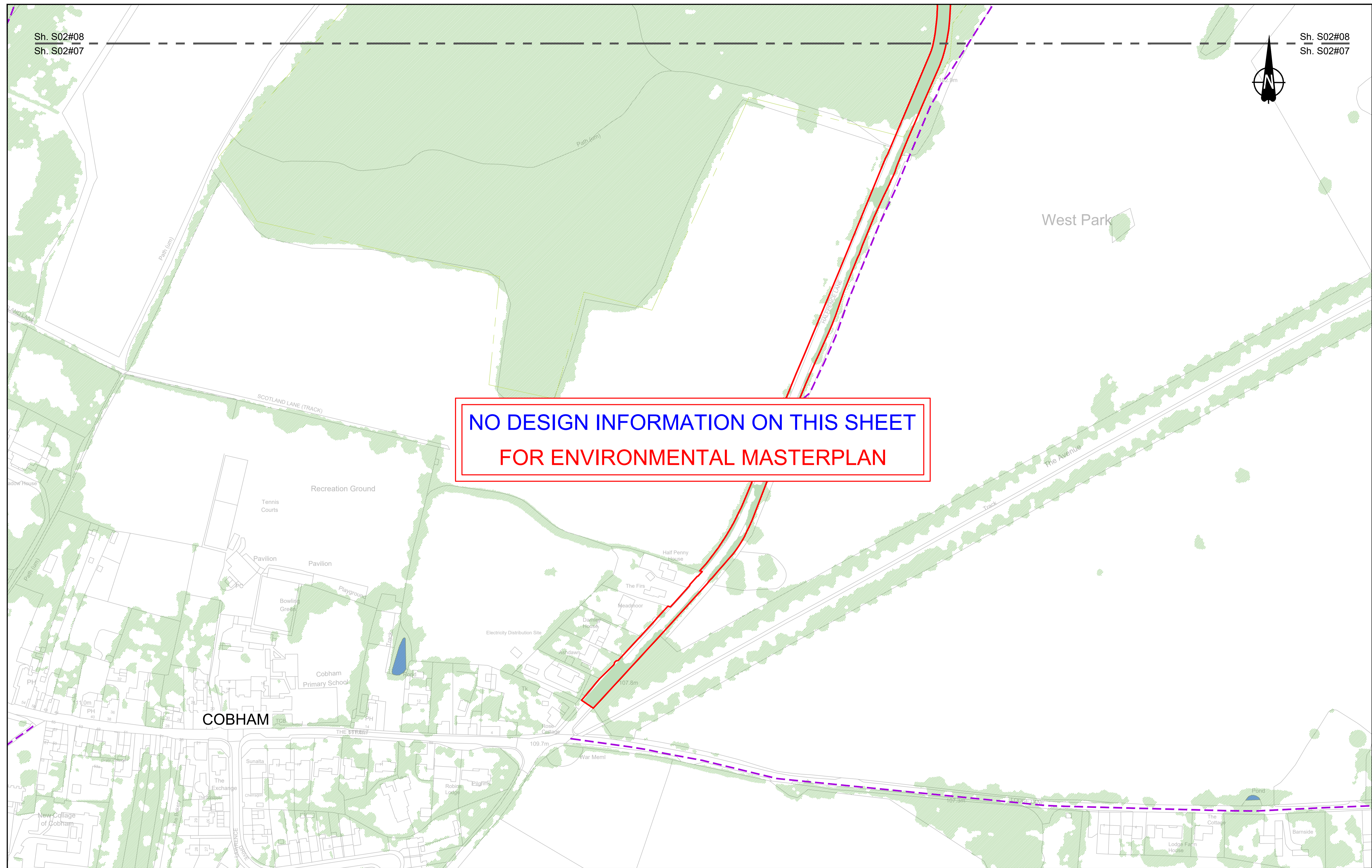
Client: **national highways**

Project: **LOWER THAMES CROSSING**

Status: DCO Examination	Application Document Number: TR010032/APP/6.2	Original Size: A1	Revision: P04
Drawing Title: ENVIRONMENTAL MASTERPLAN SECTION 2 SHEET 6		Scale: 1:1250	
Drawing Number: HE540039-CJV-EGN-S02_EN000000_Z-DR-ZZ-00007			



**NO DESIGN INFORMATION ON THIS SHEET
FOR ENVIRONMENTAL MASTERPLAN**



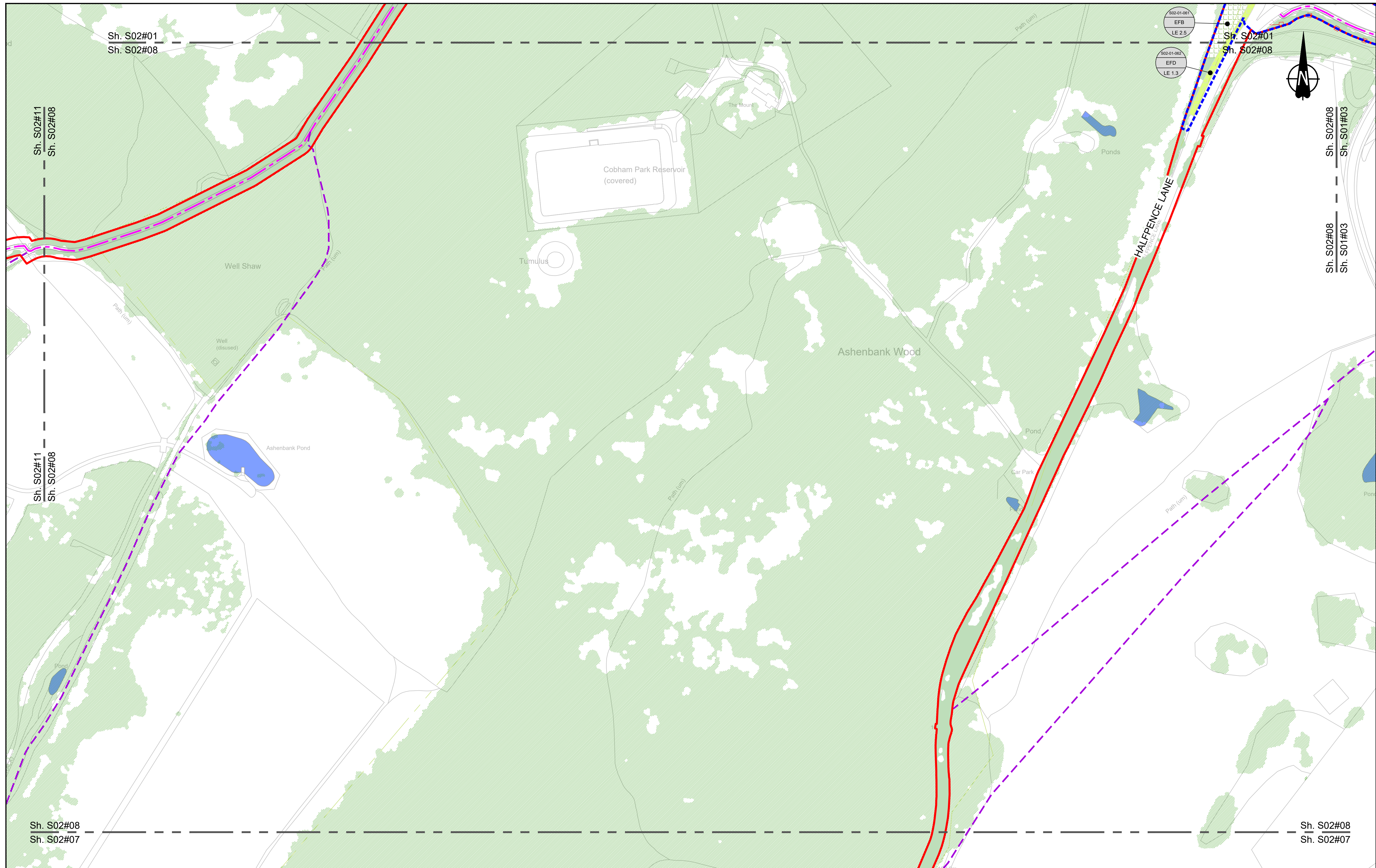
Environmental Mitigation Legend: Refer to Main Legend for baseline and scheme features (Dwg: HE540039-CJV-EGN-SZZ_EN000000_Z-DR-ZZ-00001).

<p>Order Limits</p> <p>Permanent Acquisition of Land</p> <p>Grassland (LE 1)</p> <p>LE 1.3 Species Rich Grassland</p> <p>LE 1.31 Species Rich Chalk Grassland</p> <p>LE 1.32 Species Rich Annual Wildflower Grassland</p> <p>LE 1.4 Rock and Scree</p>	<p>Planting (LE 2)</p> <p>LE 2.1 Woodland</p> <p>LE 2.11 Woodland With Non-Native Species</p> <p>LE 2.14 Wet / Carr Woodland</p> <p>LE 2.2 Woodland Edge</p> <p>LE 2.22 Scrub Woodland</p> <p>LE 2.4 Linear Belt of Shrubs and Trees</p>	<p>LE 2.5 Shrubs With Intermittent Trees</p> <p>LE 2.7 Scattered Trees</p> <p>LE 2.8 Scrub / Scattered Scrub</p> <p>Hedges (LE 4)</p> <p>LE 4.3 Native Species Hedge (untrimmied)</p> <p>LE 4.4 Native Hedgerow With Trees</p>	<p>Individual Trees (LE 5)</p> <p>LE 5.1 Individual Trees</p> <p>Wetland Habitats (LE 6)</p> <p>LE 6.11 Water Bodies - Standing Water</p> <p>LE 6.12 Water Bodies and Associated Plants - Shallow Scrape</p> <p>LE 6.2 Barks and Ditches</p> <p>LE 6.21 Banks and Ditches - High Tide Root Features</p>	<p>LE 6.4 Wet Grassland</p> <p>LE 6.41 Marsh and Wet Grassland - Coastal Grazing Marsh</p> <p>Hard Landscape Features (LE 7)</p> <p>LE 7.4 Reinforced Earth Bund</p> <p>Earthworks</p> <p>Proposed Contours</p>	<p>Ecological Habitats (LE 8)</p> <p>LE 8.1 Open Mosaic Habitat</p> <p>LE 8.2 Ancient Woodland Compensation Planting</p> <p>LE 8.3 Woodland Mitigation Planting</p> <p>LE 8.4 Wetland / Farmland Creation</p> <p>LE 8.5 Ecology Pond (indicative symbol only)</p> <p>LE 8.6 Acid Grassland Soil Salvage</p>	<p>LE 8.7 Nitrogen Deposition (NDEP) Compensation Area</p> <p>Noise (E 1)</p> <p>E 1.2 Acoustic Barrier-Built Elements (typically inc. highway boundary fence)</p> <p>Water (E 2)</p> <p>Flood Compensation Areas (E 2-FCA)</p> <p>Flood Defence (E 2-FD)</p>	<p>Ecological (E 3)</p> <p>E 3.2 Ecological Habitat Creation and Receptor sites for Protected Species</p> <p>E 3.2 Dormouse Boxes</p> <p>E 3.2 Bat Boxes</p> <p>E 3.2 Ecological Culvert</p> <p>E 3.2 Bat Barn Block</p> <p>E 3.2 Ecological Fencing (inc. highway boundary fence)</p> <p>E 3.2 Barn Owl Box</p>
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Client: **national highways**

Project: **LOWER THAMES CROSSING**

Status: Initial Status or WIP	Original Size: A1	Revision: P01.5
Application Document Number: TR010032/APP/6.2	Scale: 1:1250	
Drawing title: ENVIRONMENTAL MASTERPLAN SECTION 2 SHEET 7		
Drawing Number: HE540039-CJV-EGN-S02_EN000000_Z-DR-ZZ-00008		



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0 10 20 30 40 50 60 70 80 90 100 METRES

SCALE 1:1250 (A1)
SCALE 1:2500 (A3)

Section Overview Sheet: Refer to section overview plan at the start of the section.

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chkd	Apprv'd
P01.4	SO	08/08/2022				LD

Environmental Mitigation Legend: Refer to Main Legend for baseline and scheme features (Dwg: HE540039-CJV-EGN-SZZ_EN000000_Z-DR-ZZ-00001).

<p>Order Limits</p> <p>Permanent Acquisition of Land</p> <p>Grassland (LE 1)</p> <p>LE 1.3 Species Rich Grassland</p> <p>LE 1.31 Species Rich Chalk Grassland</p> <p>LE 1.32 Species Rich Annual Wildflower Grassland</p> <p>LE 1.4 Rock and Scree</p>	<p>Planting (LE 2)</p> <p>LE 2.1 Woodland</p> <p>LE 2.11 Woodland With Non-Native Species</p> <p>LE 2.14 Wet / Carr Woodland</p> <p>LE 2.2 Woodland Edge</p> <p>LE 2.22 Scrub Woodland</p> <p>LE 2.4 Linear Belt of Shrubs and Trees</p>	<p>LE 2.5 Shrubs With Intermittent Trees</p> <p>LE 2.7 Scattered Trees</p> <p>LE 2.8 Scrub / Scattered Scrub</p> <p>Hedges (LE 4)</p> <p>LE 4.3 Native Species Hedge (untrimm'd)</p> <p>LE 4.4 Native Hedgerow With Trees</p>	<p>Individual Trees (LE 5)</p> <p>LE 5.1 Individual Trees</p> <p>Wetland Habitats (LE 6)</p> <p>LE 6.11 Water Bodies - Standing Water</p> <p>LE 6.12 Water Bodies and Associated Plants - Shallow Scrape</p> <p>LE 6.2 Barks and Ditches</p> <p>LE 6.21 Banks and Ditches - High Tide Roost Features</p>	<p>LE 6.4 Wet Grassland</p> <p>LE 6.41 Marsh and Wet Grassland - Coastal Grazing Marsh</p> <p>Hard Landscape Features (LE 7)</p> <p>LE 7.4 Reinforced Earth Bund</p> <p>Earthworks</p> <p>Proposed Contours</p>	<p>Ecological Habitats (LE 8)</p> <p>LE 8.1 Open Mosaic Habitat</p> <p>LE 8.2 Ancient Woodland Compensation Planting</p> <p>LE 8.3 Woodland Mitigation Planting</p> <p>LE 8.4 Wetland / Farmland Creation</p> <p>LE 8.5 Ecology Pond (indicative symbol only)</p> <p>LE 8.6 Acid Grassland Soil Salvage</p>	<p>LE 8.7 Nitrogen Deposition (NDEP) Compensation Area</p> <p>Noise (E 1)</p> <p>E 1.2 Acoustic Barrier-Built Elements (typically inc. highway boundary fence)</p> <p>Water (E 2)</p> <p>Flood Compensation Areas (E 2-FCA)</p> <p>Flood Defence (E 2-FD)</p>	<p>Ecological (E 3)</p> <p>E 3.2 Ecological Habitat Creation and Receptor sites for Protected Species</p> <p>E 3.2 Dormouse Boxes</p> <p>E 3.2 Bat Boxes</p> <p>E 3.2 Ecological Culvert</p> <p>E 3.2 Bat Barn Block</p>	<p>E 3.2 Barn Owl Box</p> <p>E 3.2 Ecological Fencing (inc. highway boundary fence)</p>
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Client

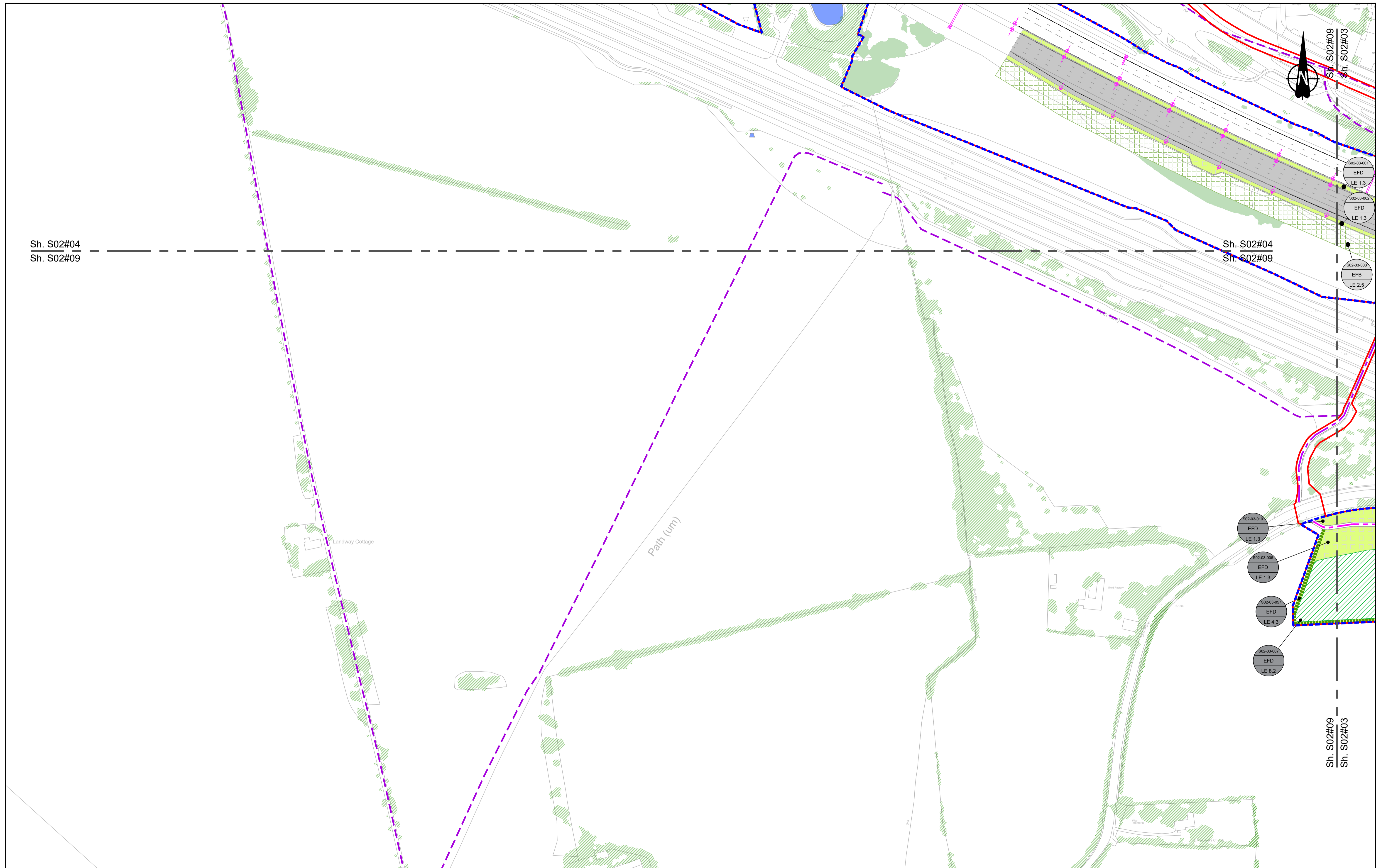
Project

LOWER THAMES CROSSING

15 St Botolph Street
London EC3A 7DT

Status	Initial Status or WIP	Original Size	A1	Revision	P01.4
Application Document Number	TR010032/APP/6.2	Scale	1:1250		
Drawing title	ENVIRONMENTAL MASTERPLAN SECTION 2 SHEET 8				
Drawing Number	HE540039-CJV-EGN-S02_EN000000_Z-DR-ZZ-00009				

HE540039-CJV-EGN-S02_EN000000_Z-DR-ZZ-00009.dwg



Sh. S02#04
Sh. S02#09

Sh. S02#04
Sh. S02#09

Sh. S02#09
Sh. S02#03

Sh. S02#09
Sh. S02#03

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SCALE 1:1250 (A1)
SCALE 1:2500 (A3)

Section Overview Sheet: Refer to section overview plan at the start of the section.

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P01.3	SO	28/06/2021				

Environmental Mitigation Legend: Refer to Main Legend for baseline and scheme features (Dwg: HE540039-CJV-EGN-SZZ_EN000000_Z-DR-ZZ-00001).

Grassland (LE 1)	Planting (LE 2)	Individual Trees (LE 5)	Ecological Habitats (LE 8)	Noise (E 1)	Ecological (E 3)
LE 1.3 Species Rich Grassland	LE 2.1 Woodland	LE 5.1 Individual Trees	LE 8.1 Open Mosaic Habitat	LE 8.7 Nitrogen Deposition (NDEP) Compensation Area	E 3.2 Ecological Habitat Creation and Receptor sites for Protected Species
LE 1.31 Species Rich Chalk Grassland	LE 2.11 Woodland With Non-Native Species	LE 5.11 Individual Trees	LE 8.2 Ancient Woodland Compensation Planting	E 1.2 Acoustic Barrier-Built Elements (typically inc. highway boundary fence)	E 3.2 Ecological Fencing (inc. highway boundary fence)
LE 1.32 Species Rich Annual Wildflower Grassland	LE 2.14 Wet / Carr Woodland	LE 5.2 Shrubs With Intermittent Trees	LE 8.3 Woodland Mitigation Planting	E 2 Flood Compensation Areas (E 2-FCA)	E 3.2 Dormouse Boxes
LE 1.4 Rock and Scree	LE 2.2 Woodland Edge	LE 5.2.7 Scattered Trees	LE 8.4 Wetland / Fenland Creation	Flood Defence (E 2-FD)	E 3.2 Bat Boxes
	LE 2.22 Scrub Woodland	LE 5.2.8 Scrub / Scattered Scrub	LE 8.5 Ecology Pond (indicative symbol only)		E 3.2 Ecological Culvert
	LE 2.4 Linear Belt of Shrubs and Trees	LE 5.2.5 Shrubs With Intermittent Trees	LE 8.6 Acid Grassland Soil Salvage		E 3.2 Bat Barn Block
		LE 5.2.2 Scattered Trees			
		LE 5.2.8 Scrub / Scattered Scrub			
		LE 5.2.4 Native Species Hedge (untrimmied)			
		LE 5.2.4 Native Hedgerow With Trees			
		LE 5.2.4 Native Hedgerow With Trees			

Client: **national highways**

Project: **LOWER THAMES CROSSING**

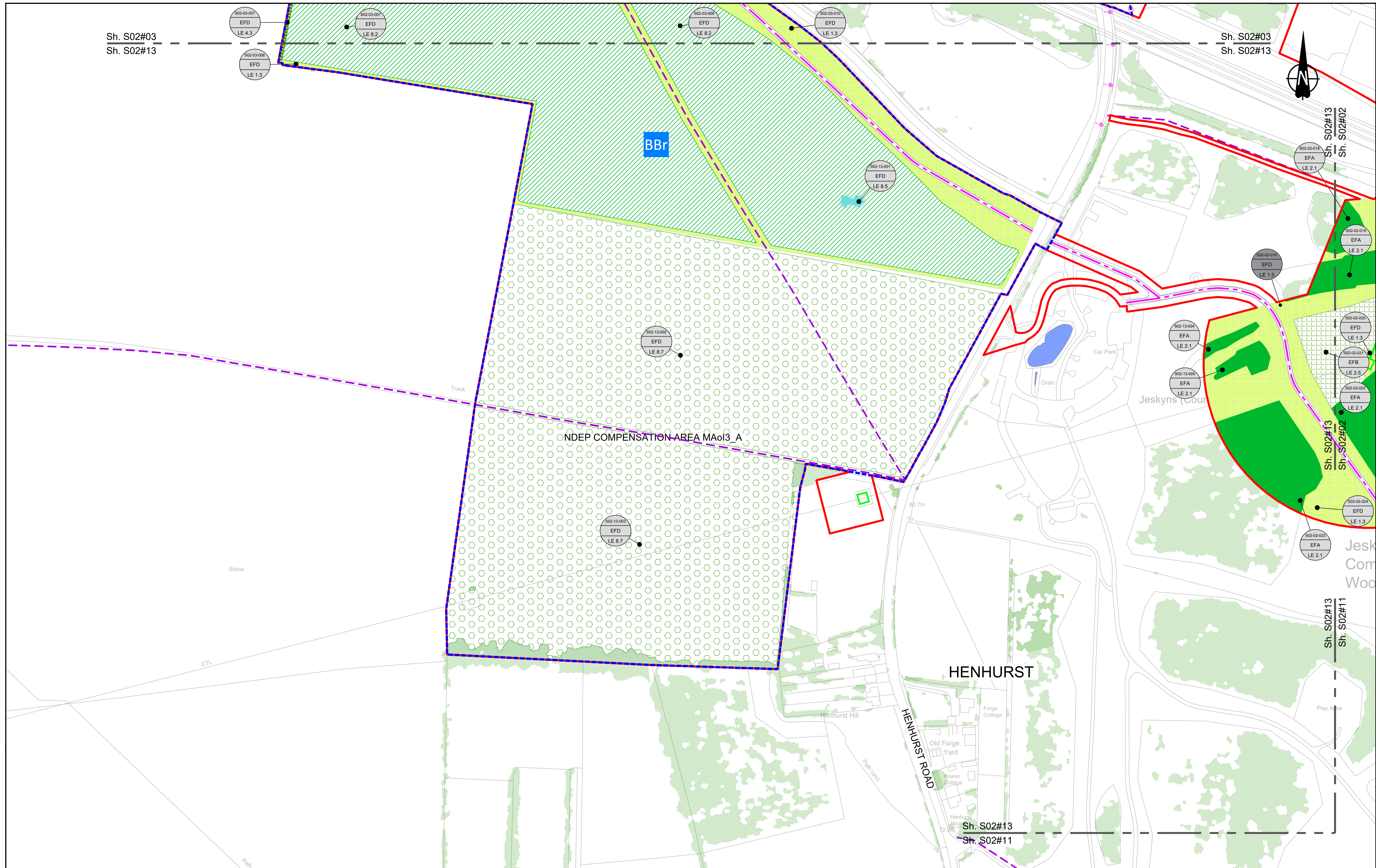
Status: Initial Status or WIP

Application Document Number: TR010032/APP/6.2

Drawing title: **ENVIRONMENTAL MASTERPLAN SECTION 2 SHEET 9**

Drawing Number: HE540039-CJV-EGN-S02_EN000000_Z-DR-ZZ-00010

Original Size: A1
Revision: P01.3
Scale: 1:1250



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SCALE 1:1250 (A1)
SCALE 1:2500 (A3)

Section Overview Sheet: Refer to section overview plan at the start of the section.

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chkd	Apprv'd
P01.4	SO	08/08/2022				LD

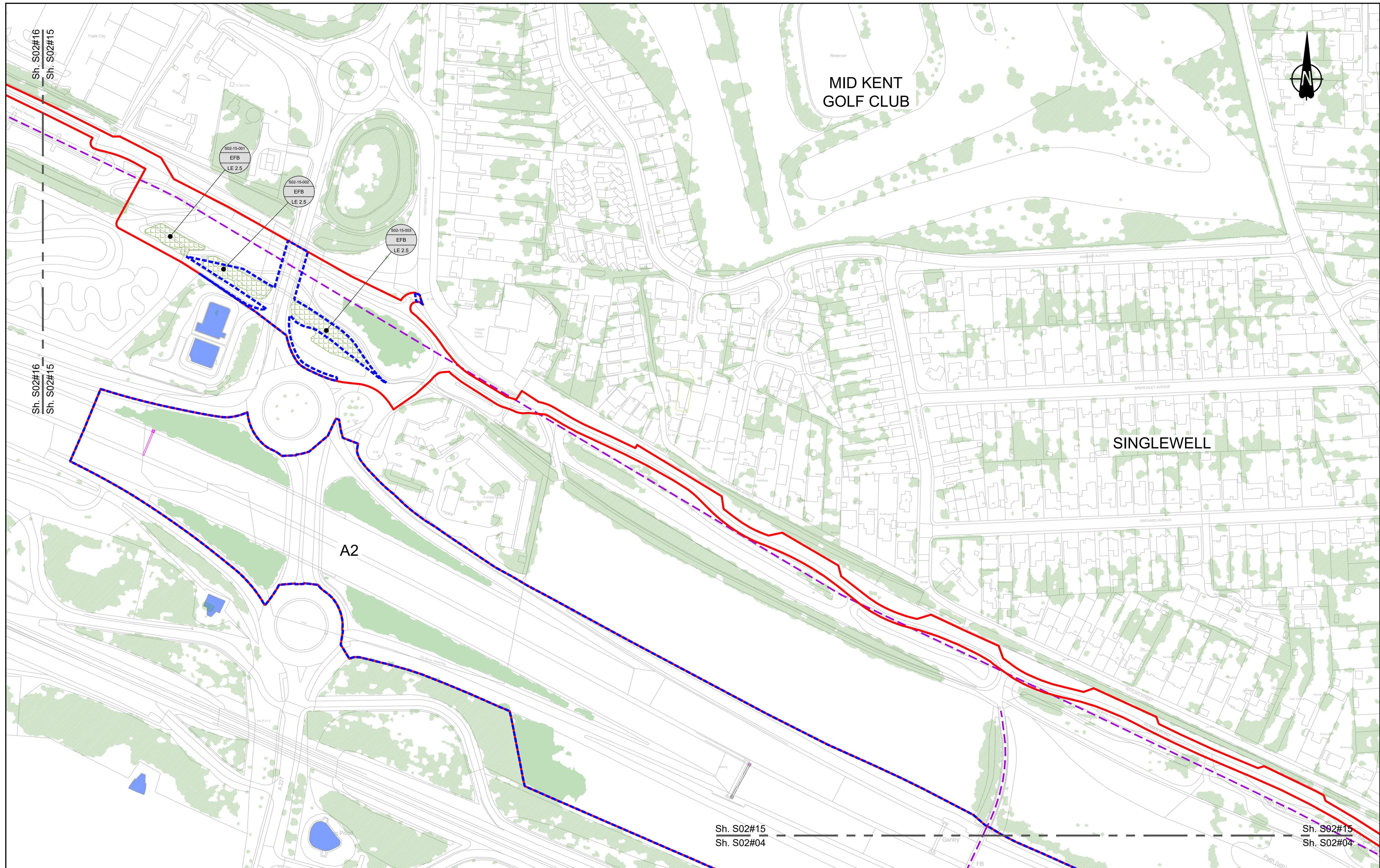
Environmental Mitigation Legend: Refer to Main Legend for baseline and scheme features (Dwg: HE540039-CJV-EGN-SZZ_EN000000_Z-DR-ZZ-00001).

Order Limits Permanent Acquisition of Land Grassland (LE 1) LE 1.3 Species Rich Grassland LE 1.31 Species Rich Chalk Grassland LE 1.32 Species Rich Annual Wildflower Grassland LE 1.4 Rock and Scree	Planting (LE 2) LE 2.1 Woodland LE 2.11 Woodland With Non-Native Species LE 2.14 Wet / Carr Woodland LE 2.2 Woodland Edge LE 2.22 Scrub Woodland LE 2.4 Linear Belt of Shrubs and Trees	LE 2.5 Shrubs With Intermittent Trees LE 2.7 Scattered Trees LE 2.8 Scrub / Scattered Scrub Hedges (LE 4) LE 4.3 Native Species Hedge (untrimmed) LE 4.4 Native Hedgerow With Trees	Individual Trees (LE 5) LE 5.1 Individual Trees Wetland Habitats (LE 6) LE 6.11 Water Bodies - Standing Water LE 6.12 Water Bodies and Associated Plants - Shallow Scrape LE 6.2 Banks and Ditches LE 6.21 Banks and Ditches - High Tide Roost Features	LE 6.4 Wet Grassland LE 6.41 Marsh and Wet Grassland - Coastal Grazing Marsh Hard Landscape Features (LE 7) LE 7.4 Reinforced Earth Bund Earthworks Proposed Contours	Ecological Habitats (LE 8) LE 8.1 Open Mosaic Habitat LE 8.2 Ancient Woodland Compensation Planting LE 8.3 Woodland Mitigation Planting LE 8.4 Wetland / Fenland Creation LE 8.5 Ecology Pond (indicative symbol only) LE 8.6 Acid Grassland Soil Salvage	LE 8.7 Nitrogen Deposition (NDEP) Compensation Area Noise (E 1) E 1.2 Acoustic Barrier-Built Elements (typically inc. highway boundary fence) Water (E 2) Flood Compensation Areas (E 2-FCA) Flood Defence (E 2-FD)	Ecological (E 3) E 3.2 Ecological Habitat Creation and Receptor sites for Protected Species E 3.2 Dormouse Boxes E 3.2 Bat Boxes E 3.2 Ecological Culvert E 3.2 Bat Barn Block E 3.2 Ecological Fencing (inc. highway boundary fence)	E 3.2 Barn Owl Box
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Client: **national highways**

Project: **LOWER THAMES CROSSING**

Status	Initial Status or WIP	Original Size	Revision
Application Document Number	TR010032/APP/6.2	A1	P01.4
Scale	1:1250		
Drawing Title	ENVIRONMENTAL MASTERPLAN SECTION 2 SHEET 13		
Drawing Number	HE540039-CJV-EGN-S02_EN000000_Z-DR-ZZ-00014		



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0 10 20 30 40 50 60 70 80 90 100 METRES

SCALE 1:1250 (A1)
SCALE 1:2500 (A3)

Section Overview Sheet: Refer to section overview plan at the start of the section.

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chk'd	Apprv'd
P01.4	SO	08/08/2022				LD

Environmental Mitigation Legend: Refer to Main Legend for baseline and scheme features (Dwg: HE540039-CJV-EGN-SZZ_EN000000_Z-DR-ZZ-00001).

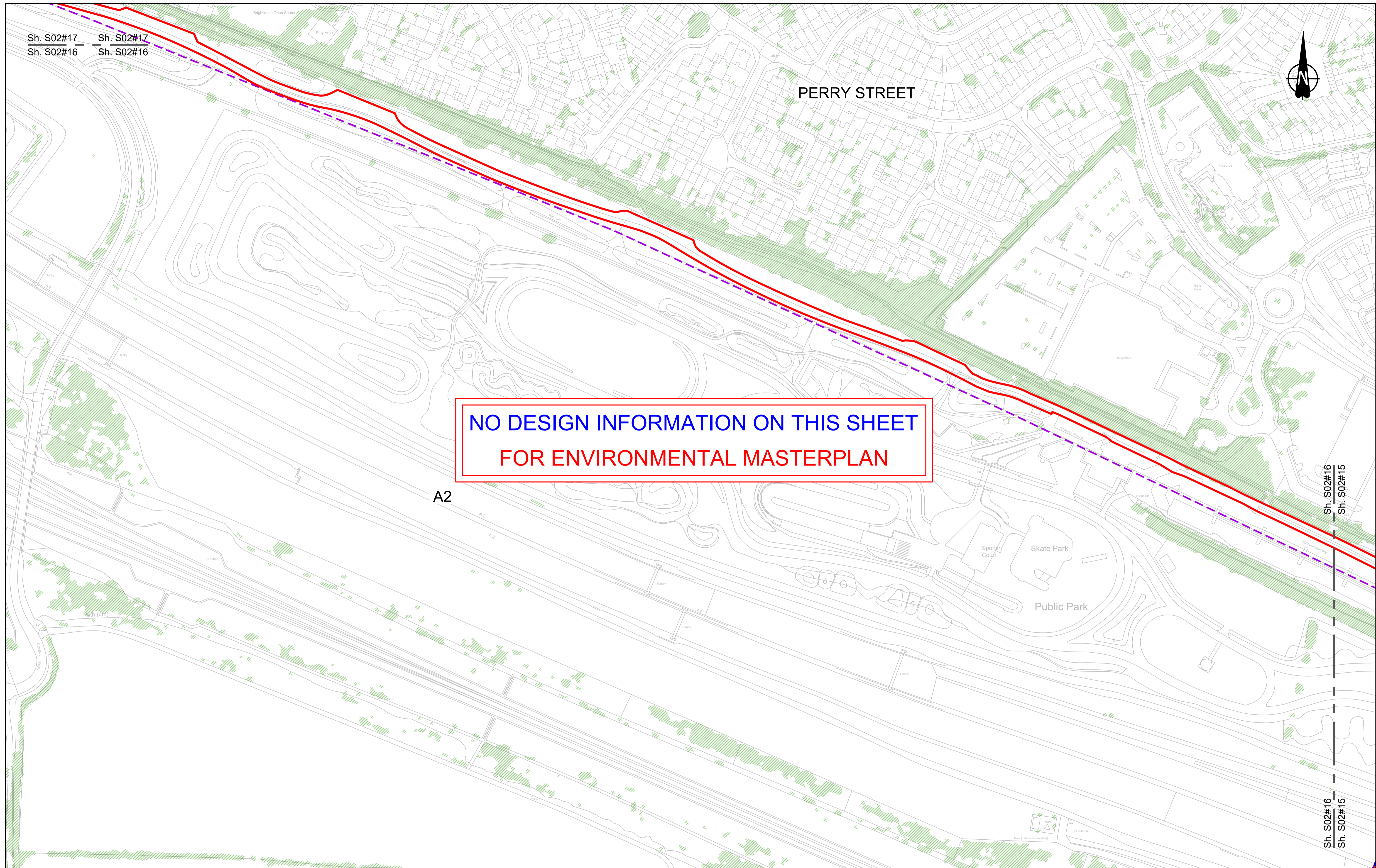
<p>Order Limits</p> <p>Permanent Acquisition of Land</p> <p>Grassland (LE 1)</p> <p>LE 1.3 Species Rich Grassland</p> <p>LE 1.31 Species Rich Chalk Grassland</p> <p>LE 1.32 Species Rich Annual Wildflower Grassland</p> <p>LE 1.4 Rock and Scree</p>	<p>Planting (LE 2)</p> <p>LE 2.1 Woodland</p> <p>LE 2.11 Woodland With Non-Native Species</p> <p>LE 2.14 Wet / Carr Woodland</p> <p>LE 2.2 Woodland Edge</p> <p>LE 2.22 Scrub Woodland</p> <p>LE 2.4 Linear Belt of Shrubs and Trees</p> <p>LE 2.5 Shrubs With Intermittent Trees</p> <p>LE 2.7 Scattered Trees</p> <p>LE 2.8 Scrub / Scattered Scrub</p> <p>Hedges (LE 4)</p> <p>LE 4.3 Native Species Hedge (untimmed)</p> <p>LE 4.4 Native Hedgerow With Trees</p>	<p>Individual Trees (LE 5)</p> <p>LE 5.1 Individual Trees</p> <p>Wetland Habitats (LE 6)</p> <p>LE 6.11 Water Bodies – Standing Water</p> <p>LE 6.12 Water Bodies and Associated Plants – Shallow Scapes</p> <p>LE 6.2 Banks and Ditches</p> <p>LE 6.21 Banks and Ditches – High Tide Flood Features</p> <p>LE 6.4 Wet Grassland</p> <p>LE 6.41 Marsh and Wet Grassland – Coastal Grazing Marsh</p> <p>LE 7.4 Reinforced Earth Bund</p> <p>Hard Landscape Features (LE 7)</p> <p>LE 7.4 Reinforced Earth Bund</p> <p>Earthworks</p> <p>Proposed Contours</p>	<p>Ecological Habitats (LE 8)</p> <p>LE 8.1 Open Mosaic Habitat</p> <p>LE 8.2 Ancient Woodland Compensation Planting</p> <p>LE 8.3 Woodland Mitigation Planting</p> <p>LE 8.4 Wetland / Fenland Creation</p> <p>LE 8.5 Ecology Pond (indicative symbol only)</p> <p>LE 8.6 Acid Grassland Soil Salvage</p>	<p>Noise (E 1)</p> <p>E 1.2 Acoustic Barrier-Built Elements (typically inc. highway boundary fence)</p> <p>Water (E 2)</p> <p>LE 8.7 Nitrogen Deposition (NDEP) Compensation Area</p> <p>E 2.1 Acoustic Barrier-Built Elements (typically inc. highway boundary fence)</p> <p>Flood Compensation Areas (E 2-FCA)</p> <p>Flood Defence (E 2-FD)</p>	<p>Ecological (E 3)</p> <p>E 3.2 Ecological Habitat Creation and Receptor Sites for Protected Species</p> <p>E 3.2 Dormouse Boxes</p> <p>E 3.2 Bat Boxes</p> <p>E 3.2 Ecological Culvert</p> <p>E 3.2 Bat Barn Block</p> <p>E 3.2 Ecological Fencing (inc. highway boundary fence)</p> <p>E 3.2 Barn Owl Box</p>
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Client: national highways

Project: LOWER THAMES CROSSING

Status	Initial Status or WIP	Original Size	Revision
Application Document Number	TR010032/APP/6.2	A1	P01.4
Scale	1:1250		
Drawing Title	ENVIRONMENTAL MASTERPLAN SECTION 2 SHEET 15		
Drawing Number	HE540039-CJV-EGN-S02_EN000000_Z-DR-ZZ-00016		

HE540039-CJV-EGN-S02_EN000000_Z-DR-ZZ-00016.dwg



Sh. S02#17
Sh. S02#16

PERRY STREET

**NO DESIGN INFORMATION ON THIS SHEET
FOR ENVIRONMENTAL MASTERPLAN**

A2

Sh. S02#16
Sh. S02#15

Sh. S02#16
Sh. S02#15

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SCALE 1:1250 (A1)
SCALE 1:2500 (A3)

Section Overview Sheet: Refer to section overview plan at the start of the section.

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P01.5	SD	08/08/2022				LD

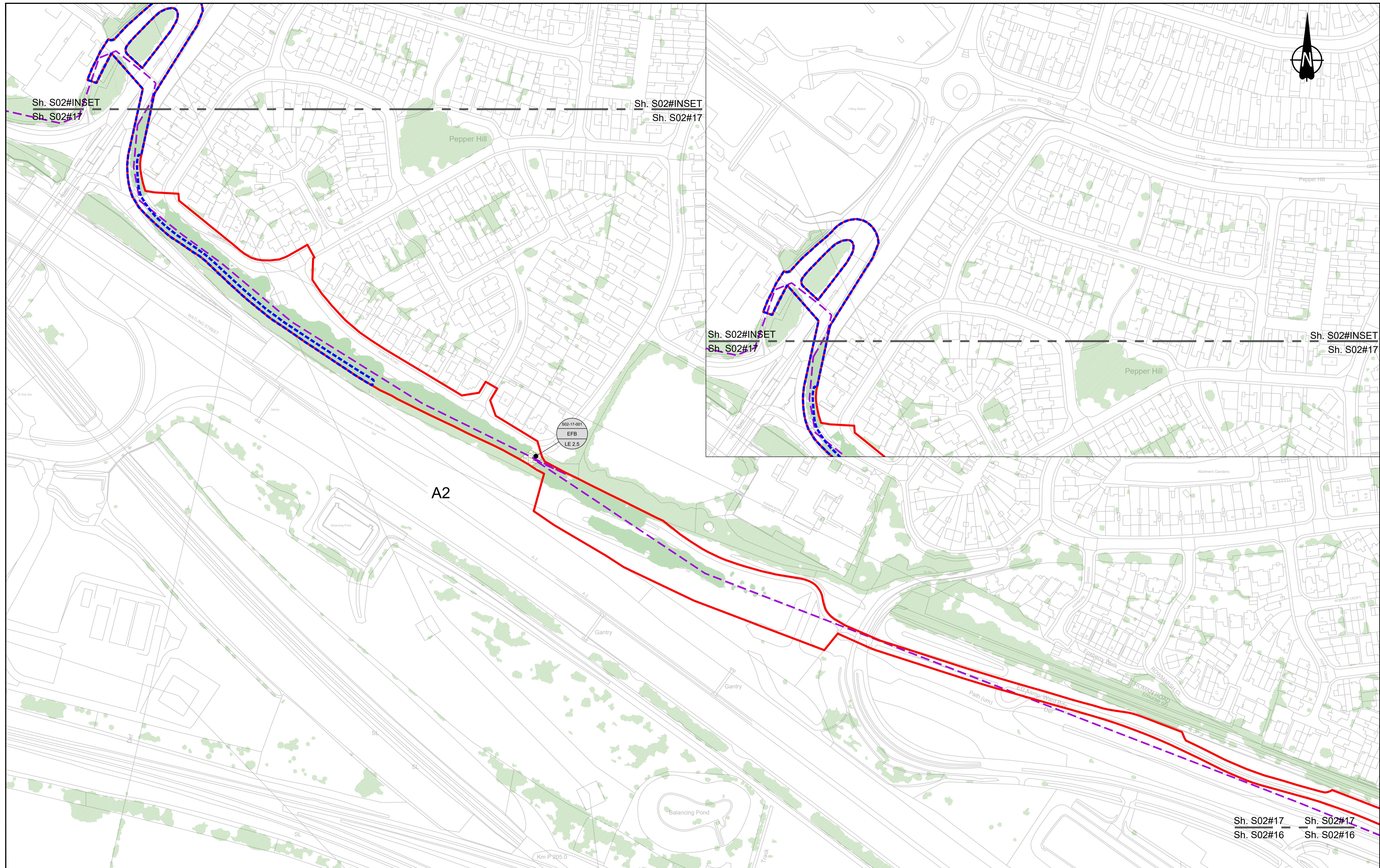
Environmental Mitigation Legend: Refer to Main Legend for baseline and scheme features (Dwg: HE540039-CJV-EGN-SZZ_EN000000_Z-DR-ZZ-00001).

<p>Order Limits</p> <ul style="list-style-type: none"> Permanent Acquisition of Land <p>Grassland (LE 1)</p> <ul style="list-style-type: none"> LE 1.3 Species Rich Grassland LE 1.31 Species Rich Chalk Grassland LE 1.32 Species Rich Annual Wildflower Grassland LE 1.4 Rock and Scree 	<p>Planting (LE 2)</p> <ul style="list-style-type: none"> LE 2.1 Woodland LE 2.11 Woodland With Non-Native Species LE 2.14 Wet / Carr Woodland LE 2.2 Woodland Edge LE 2.22 Scrub Woodland LE 2.4 Linear Belt of Shrubs and Trees <p>Hedges (LE 4)</p> <ul style="list-style-type: none"> LE 4.3 Native Species Hedge (untrimmed) LE 4.4 Native Hedgerow With Trees 	<p>Individual Trees (LE 5)</p> <ul style="list-style-type: none"> LE 5.1 Individual Trees <p>Wetland Habitats (LE 6)</p> <ul style="list-style-type: none"> LE 6.11 Water Bodies - Standing Water LE 6.12 Water Bodies and Associated Plants - Shallow Scapes LE 6.2 Barks and Ditches LE 6.21 Barks and Ditches - High Tide Root Features 	<p>Wetland Habitats (LE 6)</p> <ul style="list-style-type: none"> LE 6.41 Marsh and Wet Grassland - Coastal Grazing Marsh <p>Hard Landscape Features (LE 7)</p> <ul style="list-style-type: none"> LE 7.4 Reinforced Earth Bund <p>Earthworks</p> <ul style="list-style-type: none"> Proposed Contours 	<p>Ecological Habitats (LE 8)</p> <ul style="list-style-type: none"> LE 8.1 Open Mosaic Habitat LE 8.2 Ancient Woodland Compensation Planting LE 8.3 Woodland Mitigation Planting LE 8.4 Wetland / Fenland Creation LE 8.5 Ecology Pond (indicative symbol only) LE 8.6 Acid Grassland Soil Salvage 	<p>Noise (E 1)</p> <ul style="list-style-type: none"> LE 1.2 Acoustic Barrier-Built Elements (typically inc. highway boundary fence) <p>Water (E 2)</p> <ul style="list-style-type: none"> Flood Compensation Areas (E 2-FCA) Flood Defence (E 2-FD) 	<p>Ecological (E 3)</p> <ul style="list-style-type: none"> E 3.2 Ecological Habitat Creation and Receptor sites for Protected Species E 3.2 Dormouse Boxes E 3.2 Bat Boxes E 3.2 Ecological Culvert E 3.2 Bat Barn Block E 3.2 Ecological Fencing (inc. highway boundary fence) E 3.2 Barn Owl Box
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Client:

Project: LOWER THAMES CROSSING

Status	Initial Status or WIP	Original Size	Revision
Application Document Number	TR010032/APP/6.2	A1	P01.5
Scale	1:1250		
Drawing title	ENVIRONMENTAL MASTERPLAN SECTION 2 SHEET 16		
Drawing Number	HE540039-CJV-EGN-S02_EN000000_Z-DR-ZZ-00017		



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0 10 20 30 40 50 60 70 80 90 100 METRES

SCALE 1:1250 (A1)
SCALE 1:2500 (A3)

Section Overview Sheet: Refer to section overview plan at the start of the section.

Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd
P01.5	SO	08/08/2022				LD

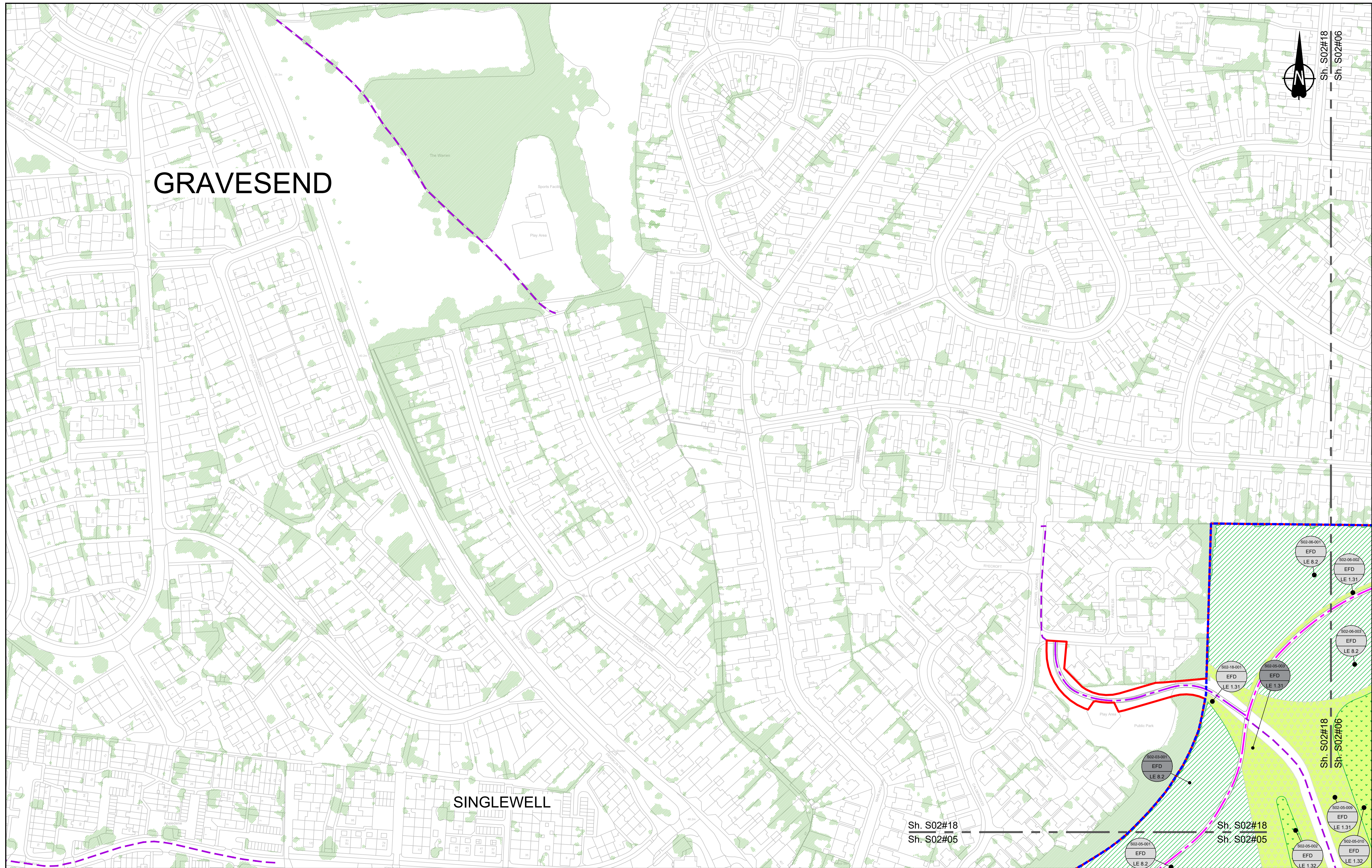
Environmental Mitigation Legend: Refer to Main Legend for baseline and scheme features (Dwg: HE540039-CJV-EGN-SZZ_EN000000_Z-DR-ZZ-00001).	
Order Limits Permanent Acquisition of Land Grassland (LE 1) LE 1.3 Species Rich Grassland LE 1.31 Species Rich Chalk Grassland LE 1.32 Species Rich Annual Wildflower Grassland LE 1.4 Rock and Scree	Planting (LE 2) LE 2.1 Woodland LE 2.11 Woodland With Non-Native Species LE 2.14 Wet / Carr Woodland LE 2.2 Woodland Edge LE 2.22 Scrub Woodland LE 2.4 Linear Belt of Shrubs and Trees LE 2.5 Shrubs With Intermittent Trees LE 2.7 Scattered Trees LE 2.8 Scrub / Scattered Scrub Hedges (LE 4) LE 4.3 Native Species Hedge (untrimmed) LE 4.4 Native Hedgerow With Trees
Individual Trees (LE 5) LE 5.1 Individual Trees Wetland Habitats (LE 6) LE 6.11 Water Bodies - Standing Water LE 6.12 Water Bodies and Associated Plants - Shallow Scapes LE 6.2 Banks and Ditches LE 6.21 Banks and Ditches - High Tide Root Features LE 6.4 Wet Grassland LE 6.41 Marsh and Wet Grassland - Coastal Grazing Marsh Hard Landscape Features (LE 7) LE 7.4 Reinforced Earth Bund Earthworks Proposed Contours	Ecological Habitats (LE 8) LE 8.1 Open Mosaic Habitat LE 8.2 Ancient Woodland Compensation Planting LE 8.3 Woodland Mitigation Planting LE 8.4 Wetland / Fenland Creation LE 8.5 Ecology Pond (indicative symbol only) LE 8.6 Acid Grassland Soil Salvage Noise (E 1) LE 1.2 Acoustic Barrier-Built Elements (typically inc. highway boundary fence) Water (E 2) LE 2.7 Flood Compensation Areas (E 2-FCA) LE 2.8 Flood Defence (E 2-FD) Ecological (E 3) E 3.2 Ecological Habitat Creation and Receptor sites for Protected Species E 3.2 Dormouse Boxes E 3.2 Bat Boxes E 3.2 Ecological Culvert E 3.2 Bat Barn Block E 3.2 Barn Owl Box E 3.2 Ecological Fencing (inc. highway boundary fence)

Client: national highways

Project: LOWER THAMES CROSSING

Status	Initial Status or WIP	Original Size	Revision
Application Document Number	TR010032/APP/6.2	A1	P01.5
Scale	1:1250		
Drawing Title	ENVIRONMENTAL MASTERPLAN SECTION 2 SHEET 17		
Drawing Number	HE540039-CJV-EGN-S02_EN000000_Z-DR-ZZ-00018		

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SCALE 1:1250 (A1)
SCALE 1:2500 (A3)

Section Overview Sheet: Refer to section overview plan at the start of the section.

Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd
P02	S9	24/08/2023	Deadline 3	LD	RO	BF

Environmental Mitigation Legend: Refer to Main Legend for baseline and scheme features (Dwg: HE540039-CJV-EGN-SZZ_EN000000_Z-DR-ZZ-00001).

Order Limits	Planting (LE 2)	Individual Trees (LE 5)	Ecological Habitats (LE 8)	Noise (E 1)	Ecological (E 3)
Order Limits	LE 2.1 Woodland	LE 5.1 Individual Trees	LE 8.1 Open Mosaic Habitat	LE 1.1 Nitrogen Deposition (NDEP) Compensation Area	E 3.2 Ecological Habitat Creation and Receptor sites for Protected Species
Permanent Acquisition of Land	LE 2.11 Woodland With Non-Native Species	LE 5.11 Water Bodies - Standing Water	LE 8.2 Ancient Woodland Compensation Planting	E 1.2 Acoustic Barrier-Built Elements (typically inc. highway boundary fence)	E 3.2 Ecological Fencing (inc. highway boundary fence)
Grassland (LE 1)	LE 2.14 Wet / Carr Woodland	LE 6 Wetland Habitats (LE 6)	LE 8.3 Woodland Mitigation Planting	E 2 Flood Compensation Areas (E 2-FCA)	E 3.2 Ecological Fencing (inc. highway boundary fence)
LE 1.3 Species Rich Grassland	LE 2.2 Woodland Edge	LE 6.1 Water Bodies - Shallow Scapes	LE 8.4 Wetland / Fenland Creation	E 2 Flood Defence (E 2-FD)	E 3.2 Ecological Culvert
LE 1.31 Species Rich Chalk Grassland	LE 2.22 Scrub Woodland	LE 6.12 Water Bodies and Associated Plants	LE 8.5 Ecology Pond (indicative symbol only)	Flood Defence (E 2-FD)	E 3.2 Bat Barn Block
LE 1.32 Species Rich Annual Wildflower Grassland	LE 2.4 Linear Belt of Shrubs and Trees	LE 6.2 Banks and Ditches	LE 8.6 Acid Grassland Soil Salvage		
LE 1.4 Rock and Scree		LE 6.21 Banks and Ditches - High Tide Root Features			
		LE 6.4 Wet Grassland			
		LE 6.41 Marsh and Wet Grassland - Coastal Grazing Marsh			
		LE 6.42 Reinforced Earth Bund			
		LE 6.43 Native Species Hedge (untrimmed)			
		LE 6.44 Native Hedgerow With Trees			
		LE 6.45 Wet Grassland			
		LE 6.46 Wet Grassland - Coastal Grazing Marsh			
		LE 6.47 Wet Grassland - Coastal Grazing Marsh			
		LE 6.48 Wet Grassland - Coastal Grazing Marsh			
		LE 6.49 Wet Grassland - Coastal Grazing Marsh			
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		LE 6.99 Wet Grassland - Coastal Grazing Marsh			
		LE 7.00 Wet Grassland - Coastal Grazing Marsh			

national highways

Project LOWER THAMES CROSSING

Status DCO EXAMINATION

Application Document Number TR010032/APP/6.2

Original Size A1

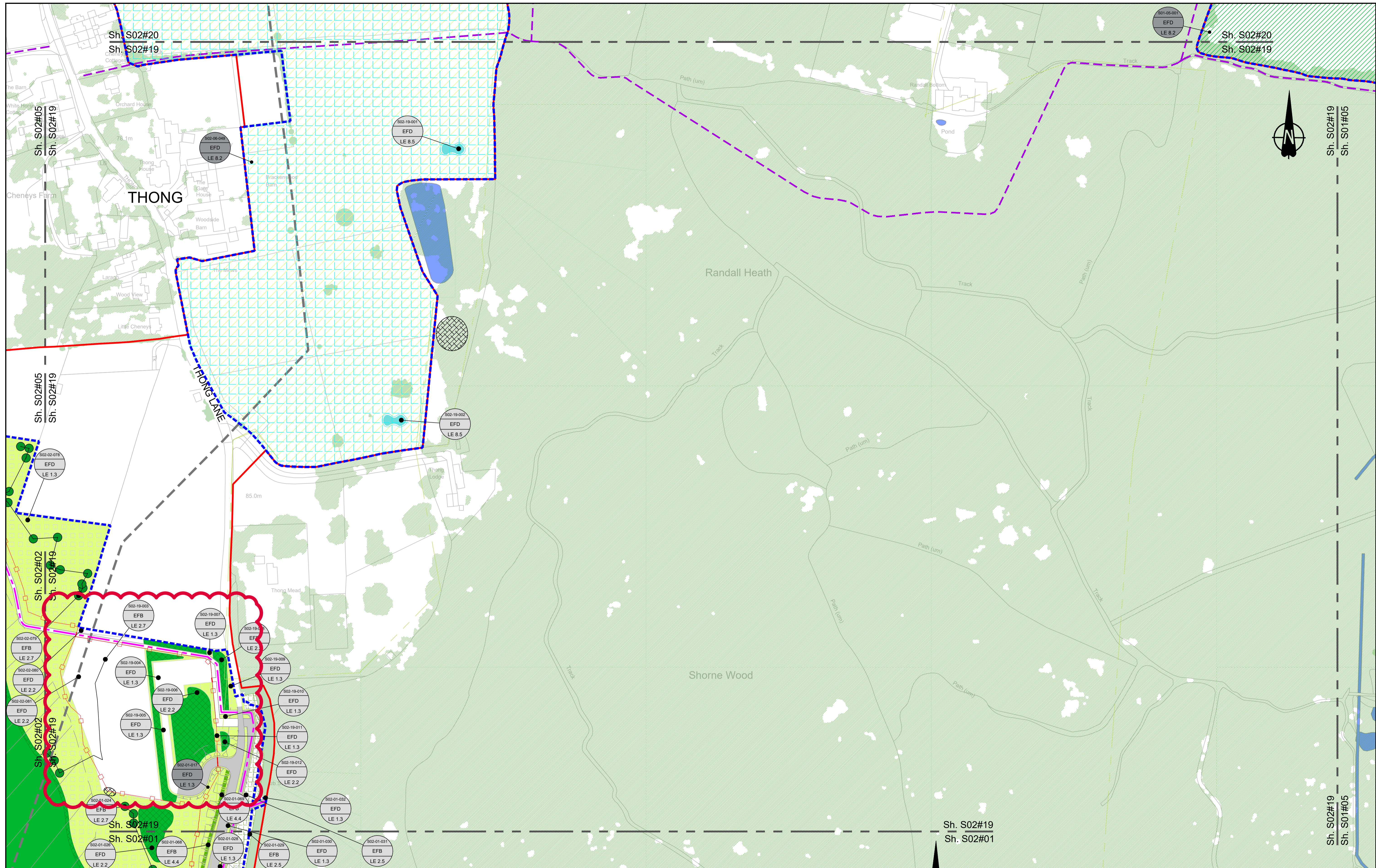
Revision P02

Scale 1:1250

Drawing Title ENVIRONMENTAL MASTERPLAN SECTION 2 SHEET 18

Drawing Number HE540039-CJV-EGN-S02_EN000000_Z-DR-ZZ-00019

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SCALE 1:1250 (A1)
SCALE 1:2500 (A3)

Section Overview Sheet: Refer to section overview plan at the start of the section.

P01	S2	25/10/2022	LD
P02	S8	17/11/2023	Deadline 7
Rev	Status	Rev. Date	Purpose of revision
		Drawn	Check'd
		Apprv'd	

Environmental Mitigation Legend: Refer to Main Legend for baseline and scheme features (Dwg: HE540039-CJV-EGN-SZ2_EN000000_Z-DR-ZZ-00001).

	Order Limits		Planting (LE 2)
	Permanent Acquisition of Land		LE 2.1 Woodland
	Grassland (LE 1)		LE 2.11 Woodland With Non-Native Species
	LE 1.3 Species Rich Grassland		LE 2.14 Wet / Carr Woodland
	LE 1.31 Species Rich Chalk Grassland		LE 2.2 Woodland Edge
	LE 1.32 Species Rich Annual Wildflower Grassland		LE 2.22 Scrub Woodland
	LE 1.4 Rock and Scree		LE 2.4 Linear Belt of Shrubs and Trees

	Individual Trees (LE 5)		Wet Grassland (LE 6.4)
	LE 5.1 Individual Trees		LE 6.41 Marsh and Wet Grassland
	Wetland Habitats (LE 6)		LE 6.42 Coastal Grazing Marsh
	LE 6.11 Water Bodies - Standing Water		LE 6.12 Water Bodies and Associated Plants - Shallow Scraps
	LE 6.2 Banks and Ditches		LE 6.2 Banks and Ditches
	LE 6.21 Banks and Ditches - High Tide Roost Features		Proposed Contours

	Ecological Habitats (LE 8)		Noise (E 1)
	LE 8.1 Open Mosaic Habitat		LE 8.7 Nitrogen Deposition (NDEP) Compensation Area
	LE 8.2 Ancient Woodland Compensation Planting		E 1.2 Acoustic Barrier - Built Elements (typically inc. highway boundary fence)
	LE 8.3 Woodland Mitigation Planting		E 2 Flood Compensation Areas (E 2-FCA)
	LE 8.4 Wetland / Fenland Creation		E 2 Flood Defence (E 2-FD)
	LE 8.5 Ecology Pond (indicative symbol only)		
	LE 8.6 Acid Grassland Soil Salvage		

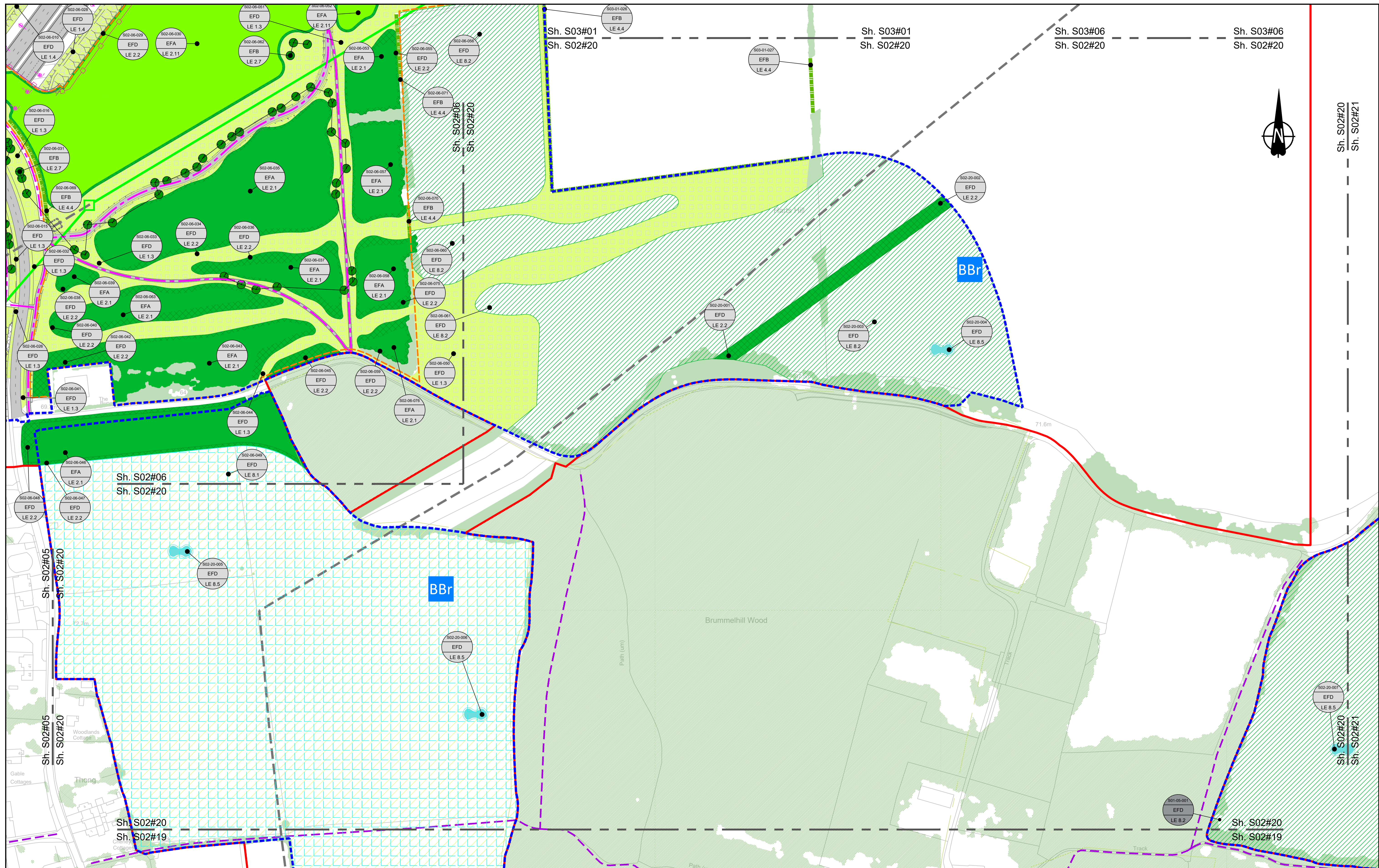
	Ecological (E 3)		E 3.2 Bat Owl Box
	E 3.2 Ecological Habitat Creation and Receptor sites for Protected Species		E 3.2 Dormouse Boxes
	E 3.2 Ecological Culvert		E 3.2 Bat Block
	E 3.2 Ecological Fencing (inc. highway boundary fence)		

Client:

Project: LOWER THAMES CROSSING

Status	DCO Examination	Original Size	A1	Revision	P02
Application Document Number	TR010032/APP/6.2	Scale	1:1250		
Drawing title	ENVIRONMENTAL MASTERPLAN SECTION 2 SHEET 19				
Drawing Number	HE540039-CJV-EGN-S02_EN000000_Z-DR-ZZ-00020				

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SCALE 1:1250 (A1)
SCALE 1:2500 (A3)

Section Overview Sheet: Refer to section overview plan at the start of the section.

P01.4 SD 08/08/2022 LD

Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

Environmental Mitigation Legend: Refer to Main Legend for baseline and scheme features (Dwg: HE540039-CJV-EGN-SZZ_EN000000_Z-DR-ZZ-00001).

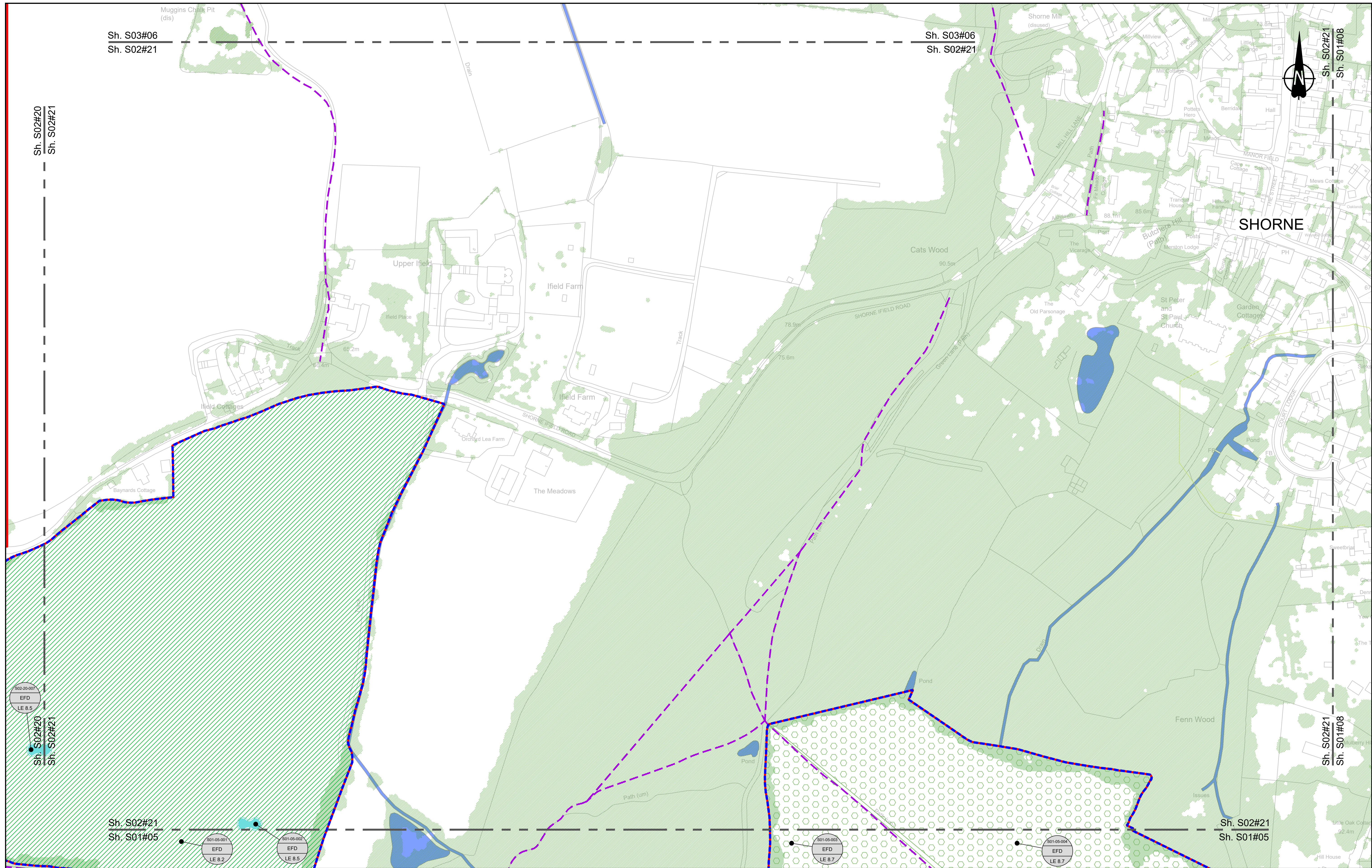
Order Limits	Planting (LE 2)	Individual Trees (LE 8)	Ecological Habitats (LE 8)	Noise (E 1)	Water (E 2)
Order Limits	LE 2.1 Woodland	LE 8.1 Individual Trees	LE 8.1 Open Mosaic Habitat	LE 8.7 Nitrogen Deposition (NDEP) Compensation Area	LE 2.1 Acoustic Barrier-Built Elements (typically inc. highway boundary fence)
Permanent Acquisition of Land	LE 2.11 Woodland With Non-Native Species	LE 8.2 Wet Grassland	LE 8.2 Ancient Woodland	LE 1.2 Acoustic Barrier-Built Elements (typically inc. highway boundary fence)	LE 2.2 Flood Compensation Areas (E 2-FCA)
Grassland (LE 1)	LE 2.7 Scattered Trees	LE 6.4 Marsh and Wet Grassland - Coastal Grazing Marsh	LE 8.3 Woodland Mitigation Planting	LE 2.3 Flood Defence (E 2-FD)	LE 2.4 Flood Defence (E 2-FD)
LE 1.3 Species Rich Grassland	LE 2.8 Scrub / Scattered Scrub	LE 6.12 Water Bodies and Associated Plants - Shallow Scrape	LE 8.4 Wetland / Fenland Creation	LE 2.5 Shrub With Intermittent Trees	LE 2.5 Shrub With Intermittent Trees
LE 1.31 Species Rich Chalk Grassland	LE 2.2 Woodland Edge	LE 6.2 Banks and Ditches	LE 8.5 Ecology Pond (indicative symbol only)	LE 2.6 Hedgerow With Trees	LE 2.6 Hedgerow With Trees
LE 1.32 Species Rich Annual Wildflower Grassland	LE 2.4 Linear Belt of Shrubs and Trees	LE 7.4 Reinforced Earth Bund	LE 8.6 Acid Grassland Soil Salvage	LE 2.7 Scattered Trees	LE 2.7 Scattered Trees
LE 1.4 Rock and Scree					

Client: **national highways**

Project: **LOWER THAMES CROSSING**

Status	Initial Status or WIP	Original Size	Revision
Application Document Number	TR010032/APP/6.2	A1	P01.4
Scale	1:1250		
Drawing Title	ENVIRONMENTAL MASTERPLAN SECTION 2 SHEET 20		
Drawing Number	HE540039-CJV-EGN-S02_EN000000_Z-DR-ZZ-00021		

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SCALE 1:1250 (A1)
SCALE 1:2500 (A3)

Section Overview Sheet: Refer to section overview plan at the start of the section.

Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd
P01.4	SO	08/08/2022				

Environmental Mitigation Legend: Refer to Main Legend for baseline and scheme features (Dwg: HE540039-CJV-EGN-SZZ_EN000000_Z-DR-ZZ-00001).	
Order Limits	Planting (LE 2)
Permanent Acquisition of Land	Individual Trees (LE 5)
Grassland (LE 1)	Wetland Habitats (LE 6)
LE 1.3 Species Rich Grassland	LE 5.1 Individual Trees
LE 1.31 Species Rich Chalk Grassland	LE 6.1 Water Bodies - Standing Water
LE 1.32 Species Rich Annual Wildflower Grassland	LE 6.12 Water Bodies and Associated Plants - Shallow Scapes
LE 1.4 Rock and Scree	LE 6.2 Banks and Ditches
LE 2.1 Woodland	LE 6.4 Marsh and Wet Grassland - Coastal Grazing Marsh
LE 2.11 Woodland With Non-Native Species	LE 6.41 Marsh and Wet Grassland - Coastal Grazing Marsh
LE 2.14 Wet / Carr Woodland	LE 6.42 Wet Grassland - Coastal Grazing Marsh
LE 2.2 Woodland Edge	LE 6.43 Wet Grassland - Coastal Grazing Marsh
LE 2.22 Scrub Woodland	LE 6.44 Wet Grassland - Coastal Grazing Marsh
LE 2.4 Linear Belt of Shrubs and Trees	LE 6.45 Wet Grassland - Coastal Grazing Marsh
LE 2.5 Shrubs With Intermittent Trees	LE 6.46 Wet Grassland - Coastal Grazing Marsh
LE 2.7 Scattered Trees	LE 6.47 Wet Grassland - Coastal Grazing Marsh
LE 2.8 Scrub / Scattered Scrub	LE 6.48 Wet Grassland - Coastal Grazing Marsh
Hedges (LE 4)	LE 6.49 Wet Grassland - Coastal Grazing Marsh
LE 4.3 Native Species Hedge (untrimmed)	LE 6.50 Wet Grassland - Coastal Grazing Marsh
LE 4.4 Native Hedgerow With Trees	LE 6.51 Wet Grassland - Coastal Grazing Marsh
Hard Landscape Features (LE 7)	LE 6.52 Wet Grassland - Coastal Grazing Marsh
LE 7.4 Reinforced Earth Bund	LE 6.53 Wet Grassland - Coastal Grazing Marsh
Earthworks	LE 6.54 Wet Grassland - Coastal Grazing Marsh
Proposed Contours	LE 6.55 Wet Grassland - Coastal Grazing Marsh
Ecological Habitats (LE 8)	LE 6.56 Wet Grassland - Coastal Grazing Marsh
LE 8.1 Open Mosaic Habitat	LE 6.57 Wet Grassland - Coastal Grazing Marsh
LE 8.2 Ancient Woodland Compensation Planting	LE 6.58 Wet Grassland - Coastal Grazing Marsh
LE 8.3 Woodland Mitigation Planting	LE 6.59 Wet Grassland - Coastal Grazing Marsh
LE 8.4 Wetland / Fenland Creation	LE 6.60 Wet Grassland - Coastal Grazing Marsh
LE 8.5 Ecology Pond (indicative symbol only)	LE 6.61 Wet Grassland - Coastal Grazing Marsh
LE 8.6 Acid Grassland Soil Salvage	LE 6.62 Wet Grassland - Coastal Grazing Marsh
Noise (E 1)	Ecological (E 3)
E 1.2 Acoustic Barrier-Built Elements (typically inc. highway boundary fence)	E 3.2 Ecological Habitat Creation and Receptor sites for Protected Species
Water (E 2)	E 3.2 Dormouse Boxes
Flood Compensation Areas (E 2-FCA)	E 3.2 Bat Boxes
Flood Defence (E 2-FD)	E 3.2 Ecological Culvert
	E 3.2 Bat Barn Block
	E 3.2 Barn Owl Box
	E 3.2 Ecological Fencing (inc. highway boundary fence)

Client: national highways

Project: LOWER THAMES CROSSING

Status	Initial Status or WIP	Original Size	Revision
Application Document Number	TR010032/APP/6.2	A1	P01.4
Scale	1:1250		
Drawing Title	ENVIRONMENTAL MASTERPLAN SECTION 2 SHEET 21		
Drawing Number	HE540039-CJV-EGN-S02_EN000000_Z-DR-ZZ-00022		
	HE540039-CJV-EGN-S02_EN000000_Z-DR-ZZ-00022.dwg		

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