

Lower Thames Crossing

6.2 Environmental Statement

Figure 2.4: Environmental Masterplan Section 2 (2 of 10) (Clean version)

APFP Regulation 5(2)(a)

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

Volume 6

DATE: November 2023
DEADLINE: 7

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

VERSION: 4.0

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
4.0	17 November 2023	Deadline 7

Lower Thames Crossing

6.2 Environmental Statement Figure 2.4: Environmental Masterplan Section 2 (2 of 10) (Clean 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

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

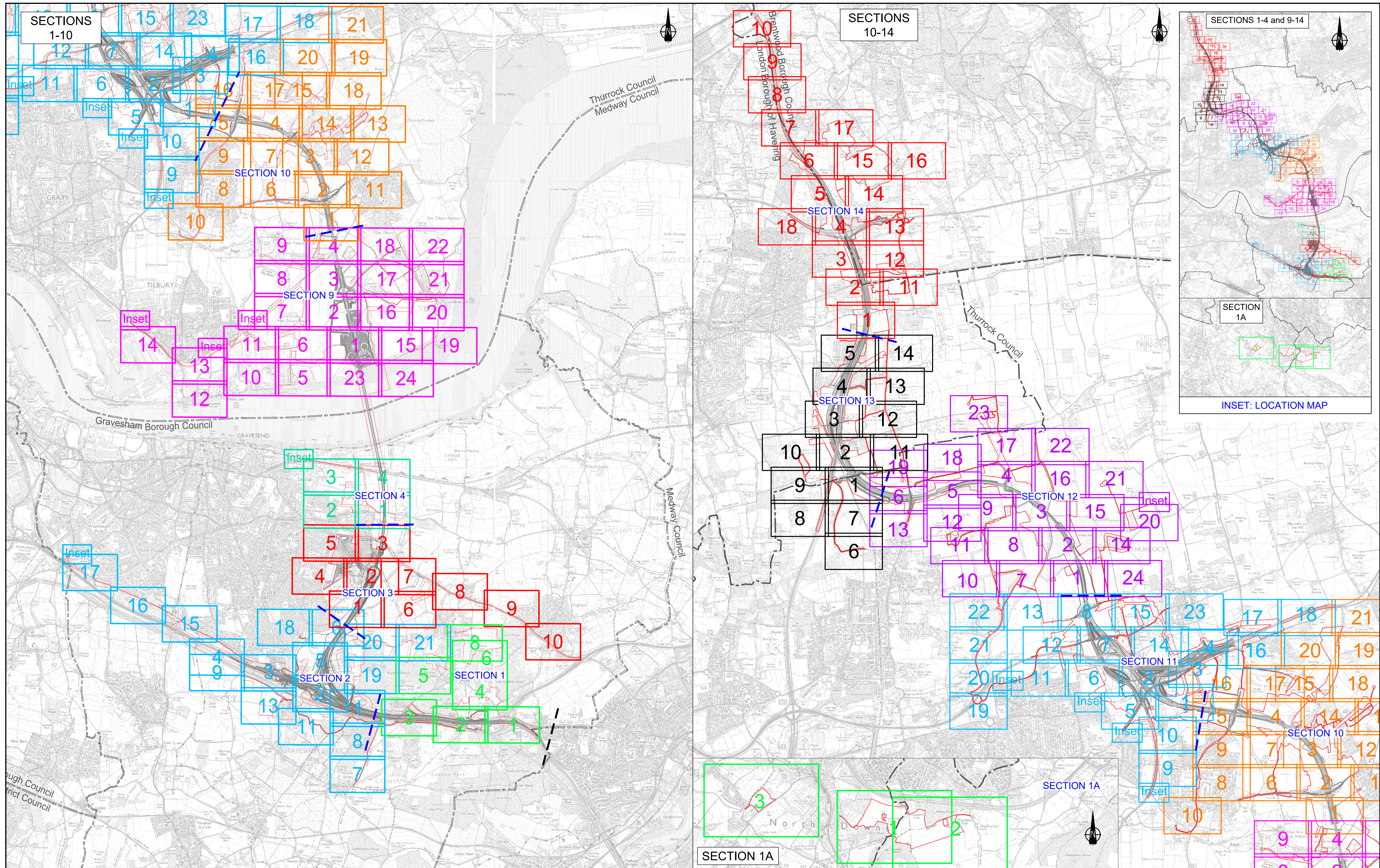
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TR010032/APP/6.2

P01.4

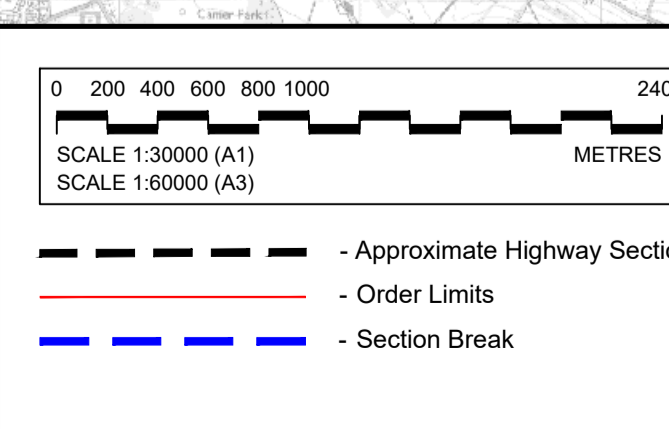
00022 - Section 2 Sheet 21

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)	1	Section S10 (Sheets 1 - 21)
1	Section S1A (Sheets 1 - 3)	1	Section S11 (Sheets 1 - 22)
1	Section S2 (Sheets 1 - 21)	1	Section S12 (Sheets 1 - 24)
1	Section S3 (Sheets 1 - 10)	1	Section S13 (Sheets 1 - 14)
1	Section S4 (Sheets 1 - 4)	1	Section S14 (Sheets 1 - 18)
1	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	ENVIRONMENTAL MASTERPLAN SCHEME OVERVIEW		
Drawing Number	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

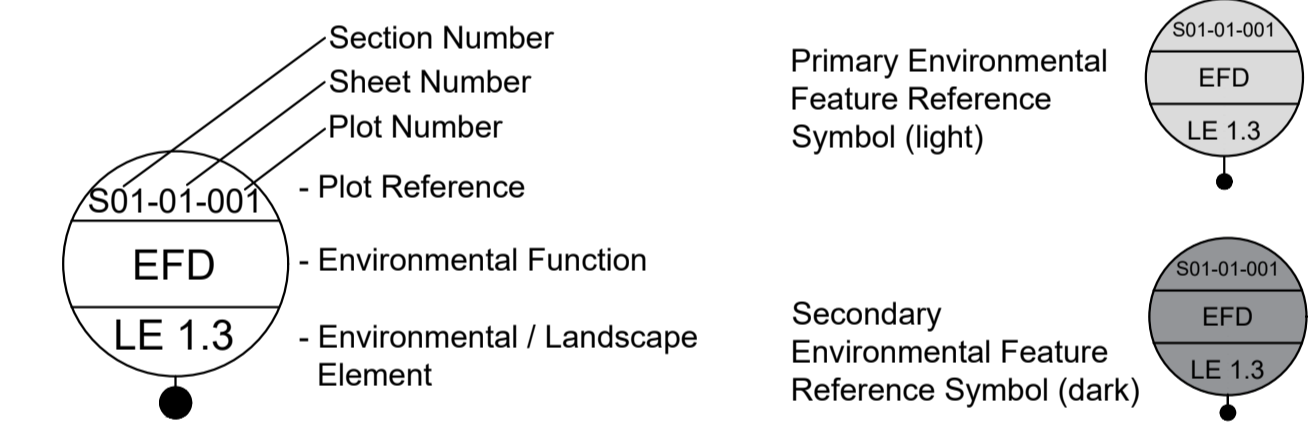
The outline Landscape and Ecology Management Plan (LEMP) separately sets out the proposed management for the environmental / landscape elements shown on the Environmental Masterplan. The Environment Masterplan secures the spatial extent and location of the environmental / landscape elements detailed 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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LOWER THAMES CROSSING

Status: Initial Status or WIP

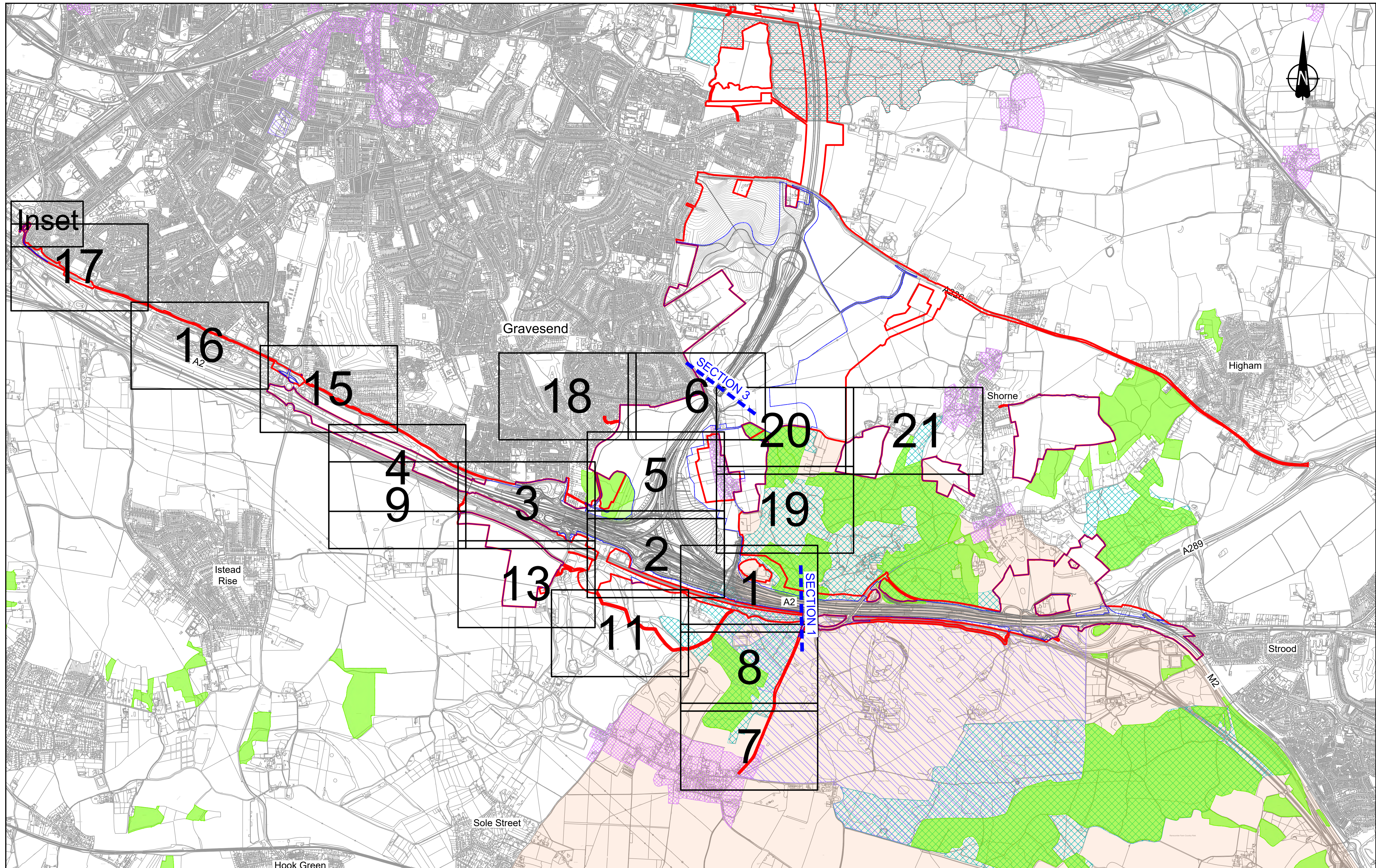
Application Document Number: TR010032/APP/6.2

Drawing title: ENVIRONMENTAL MASTERPLAN LEGEND

Drawing Number: HE540039-CJV-EGN-SZZ_EN000000_Z-DR-ZZ-00001

Original Size: A1	Revision: P01.6
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1.4 Section 2



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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	Check'd	Appr'd

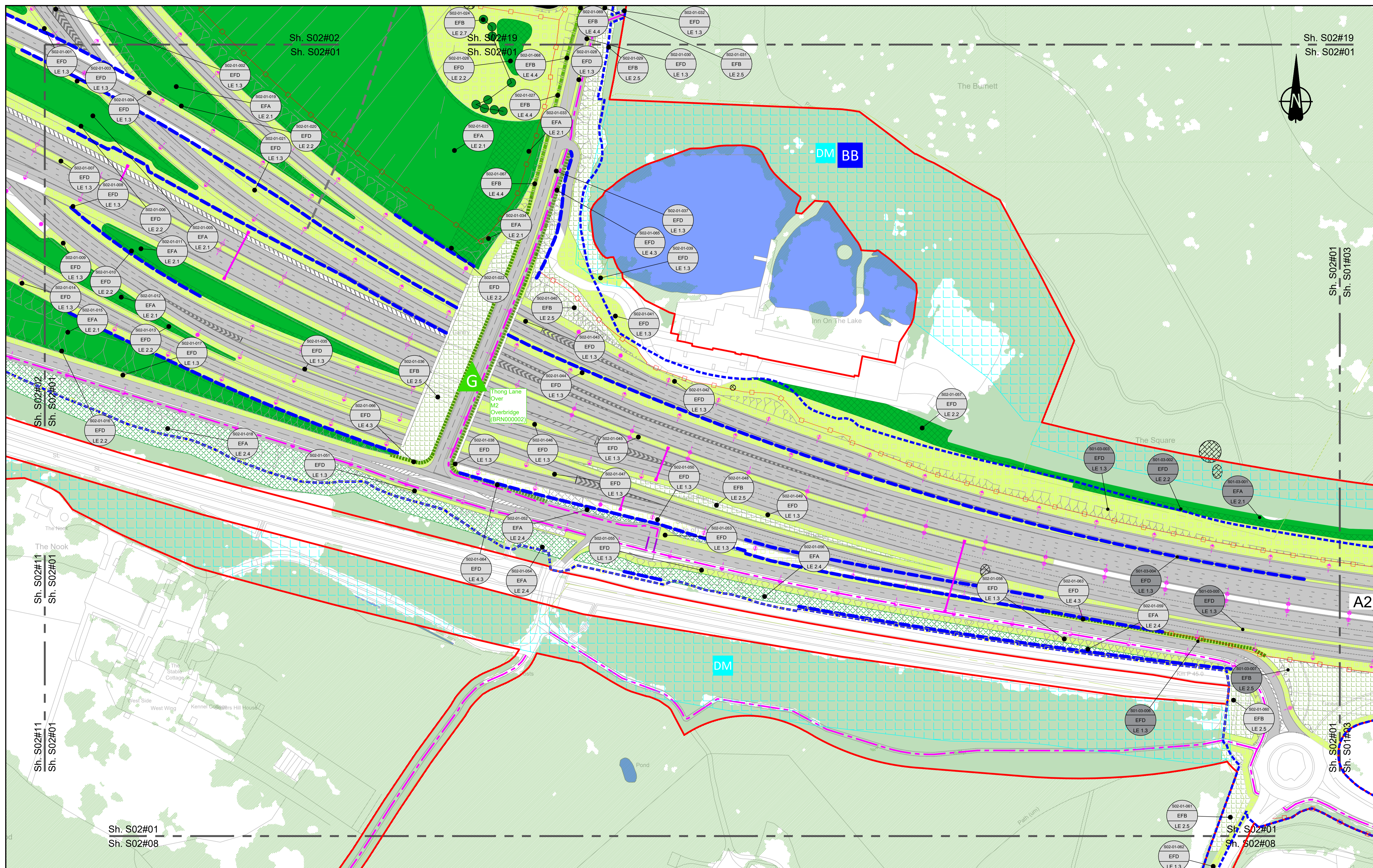
Notes:
 1. The sheets presented cover the full extent of the Order Limits. The sheet numbering for section 2 is not sequential due to alteration to the Order Limits prior to submissions resulting in sheets 10, 12, and 14 being removed in the submission set

LEGEND

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

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.

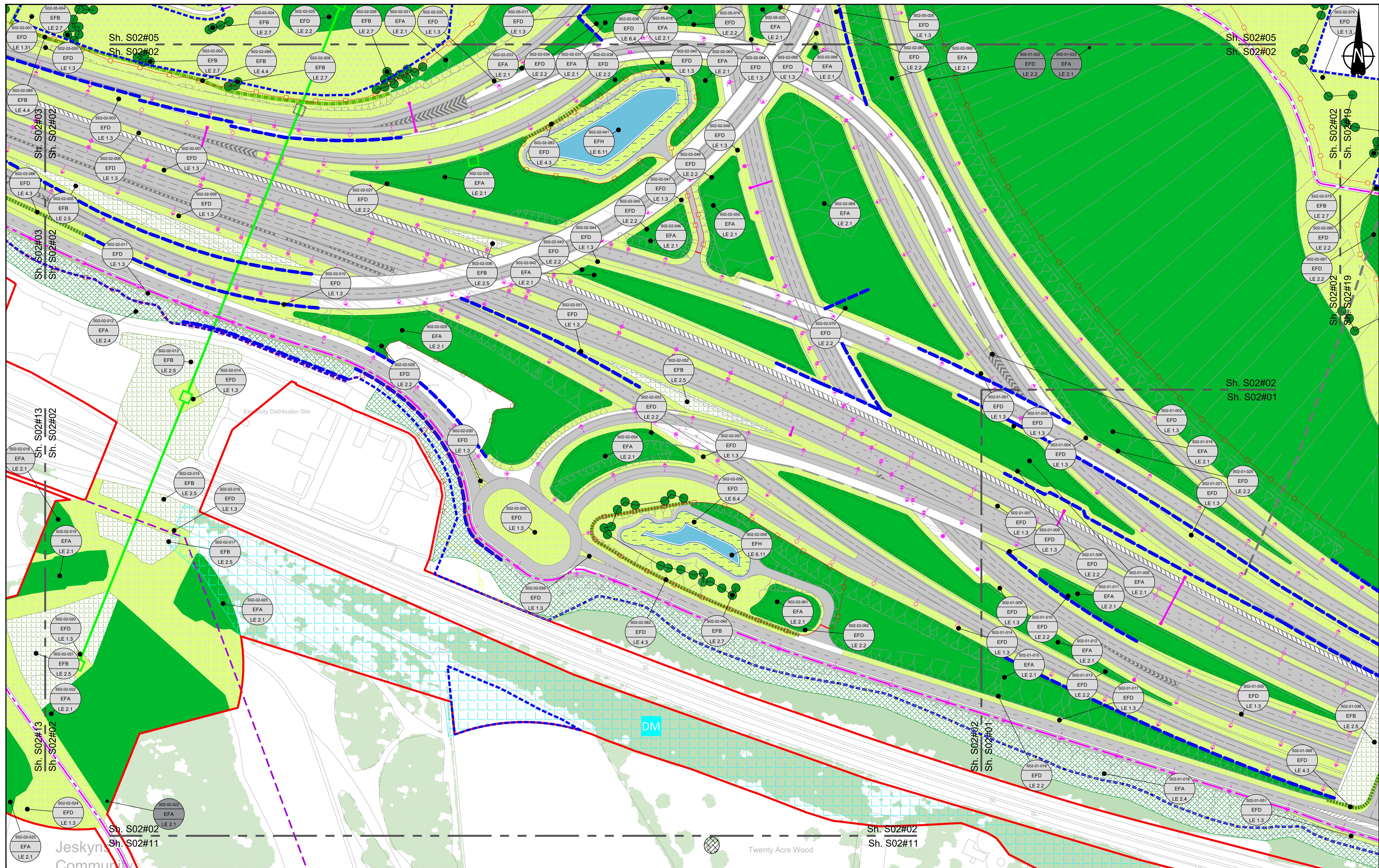
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P02	S8	19/07/2023	Deadline 2	PS	SK	BF
P03	S8	17/11/2023	Deadline 7	GH1	RO	BB

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-SZ2_EN000000_Z-DR-ZZ-00001).

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

	Client	DCO Examination	Original Size	Revision
	Project	Application Document Number	A1	P03
LOWER THAMES CROSSING		TR010032/APP/6.2	Scale	1:1250
ENVIRONMENTAL MASTERPLAN SECTION 2 SHEET 1		Drawing Number	HE540039-CJV-EGN-S02_EN000000_Z-DR-ZZ-00002	
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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	LD	PS	MH
P02	S9	19/07/2023	Deadline 2	LD	SK	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd

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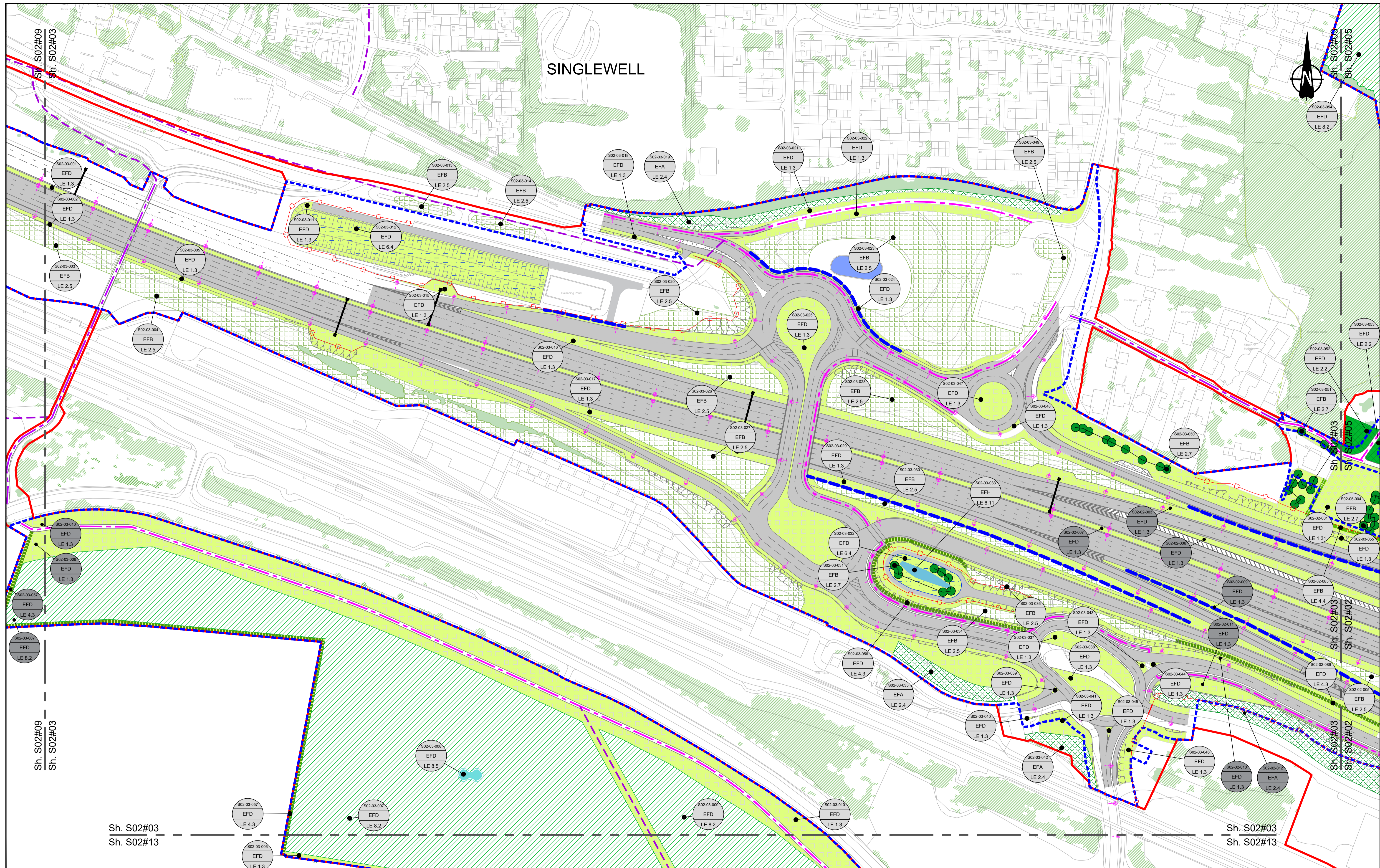
Order Limits	Planting (LE 2)	Individual Trees (LE 5)	Ecological Habitats (LE 8)	Noise (E 1)	Ecological (E 3)
Order Limits	LE 2.1 Woodland	LE 5.1 Individual Trees	LE 8.1 Open Mosaic Habitat	LE 8.7 Nitrogen Deposition (NDEP) Compensation Area	E 3.2 Ecological Habitat Creation and Receptor sites for Protected Species
Permanent Acquisition of Land	LE 2.11 Woodland With Non-Native Species	LE 5.2 Scattered 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)
Grassland (LE 1)	LE 2.14 Wet / Carr Woodland	Wetland Habitats (LE 6)	LE 8.3 Woodland Mitigation Planting	Water (E 2)	E 3.2 Ecological Culvert
LE 1.3 Species Rich Chalk Grassland	LE 2.2 Woodland Edge	LE 6.1 Water Bodies - Standing Water	LE 8.4 Wetland / Farmland Creation	Flood Compensation Areas (E 2-FCA)	Flood Defence (E 2-FD)
LE 1.31 Species Rich Chalk Grassland	LE 2.22 Scrub Woodland	LE 6.12 Water Bodies and Associated Plants - Shallow Scrape	LE 8.5 Ecology Pond (indicative symbol only)	Flood Defence (E 2-FD)	LE 8.6 Acid Grassland Soil Salvage
LE 1.32 Species Rich Annual Wildflower Grassland	LE 2.4 Linear Belt of Shrubs and Trees	Hedges (LE 4)	Hard Landscape Features (LE 7)		
LE 1.4 Rock and Scree		LE 4.3 Native Species Hedge (untrimmed)	LE 7.4 Reinforced Earth Band		
		LE 4.4 Native Hedgerow With Trees	Earthworks		
			Proposed Contours		

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 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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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).

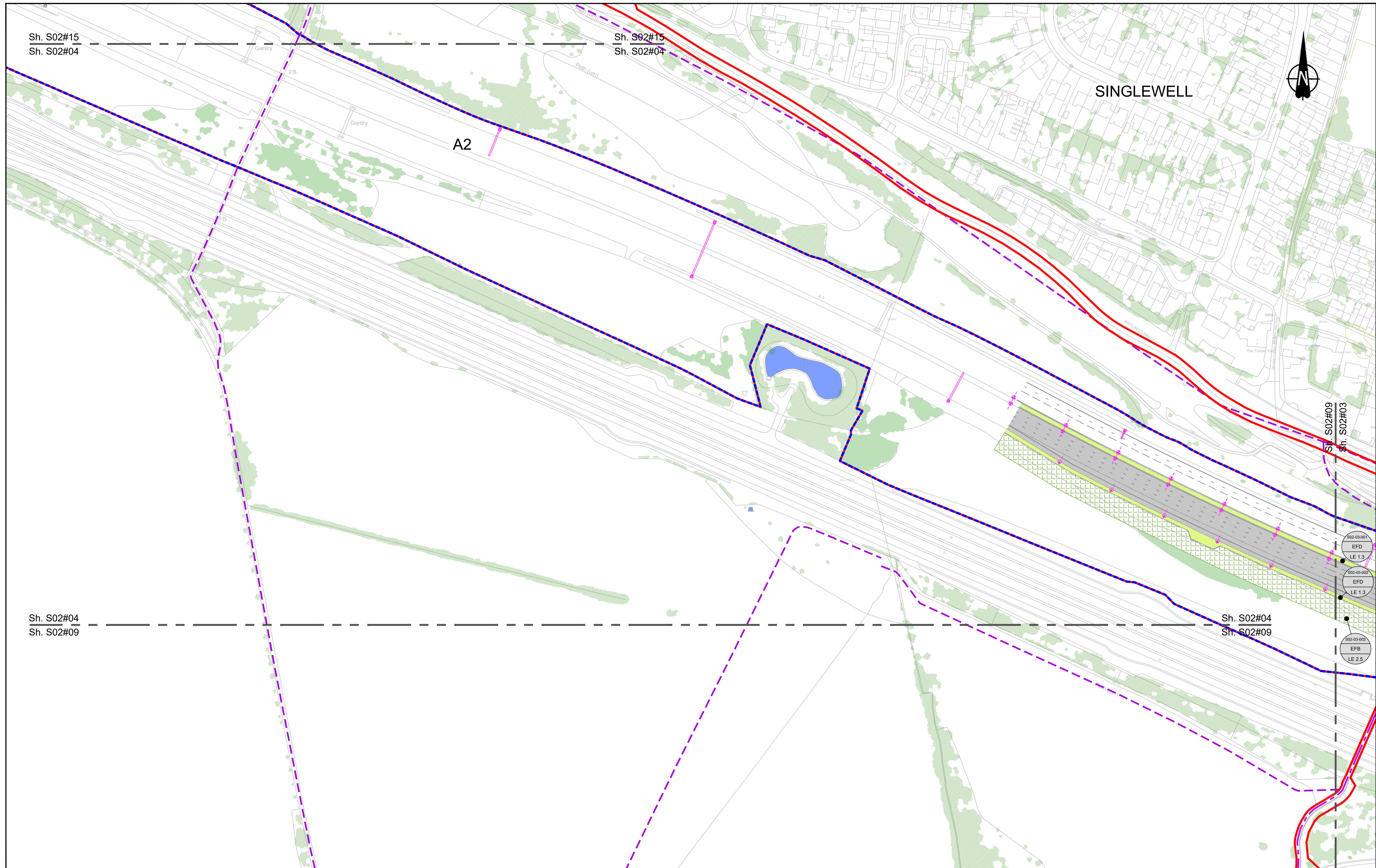
Order Limits	Planting (LE 2)	Individual Trees (LE 5)
Order Limits	LE 2.1 Woodland	LE 5.1 Individual Trees
Permanent Acquisition of Land	LE 2.11 Woodland With Non-Native Species	Wetland Habitats (LE 6)
Grassland (LE 1)	LE 2.14 Wet / Carr Woodland	LE 6.11 Water Bodies - Standing Water
LE 1.3 Species Rich 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		

Ecological Habitats (LE 8)	Ecological (E 3)
LE 8.1 Open Mosaic Habitat	E 3.2 Ecological Habitat Creation and Receptor sites for Protected Species
LE 8.2 Ancient Woodland Compensation Planting	E 3.2 Dormouse Boxes
LE 8.3 Woodland Mitigation Planting	E 3.2 Bat Boxes
LE 8.4 Wetland / Farmland Creation	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	

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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SCALE 1:2500 (A3)
METRES

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

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P01.4	SO	08/08/2022				LD

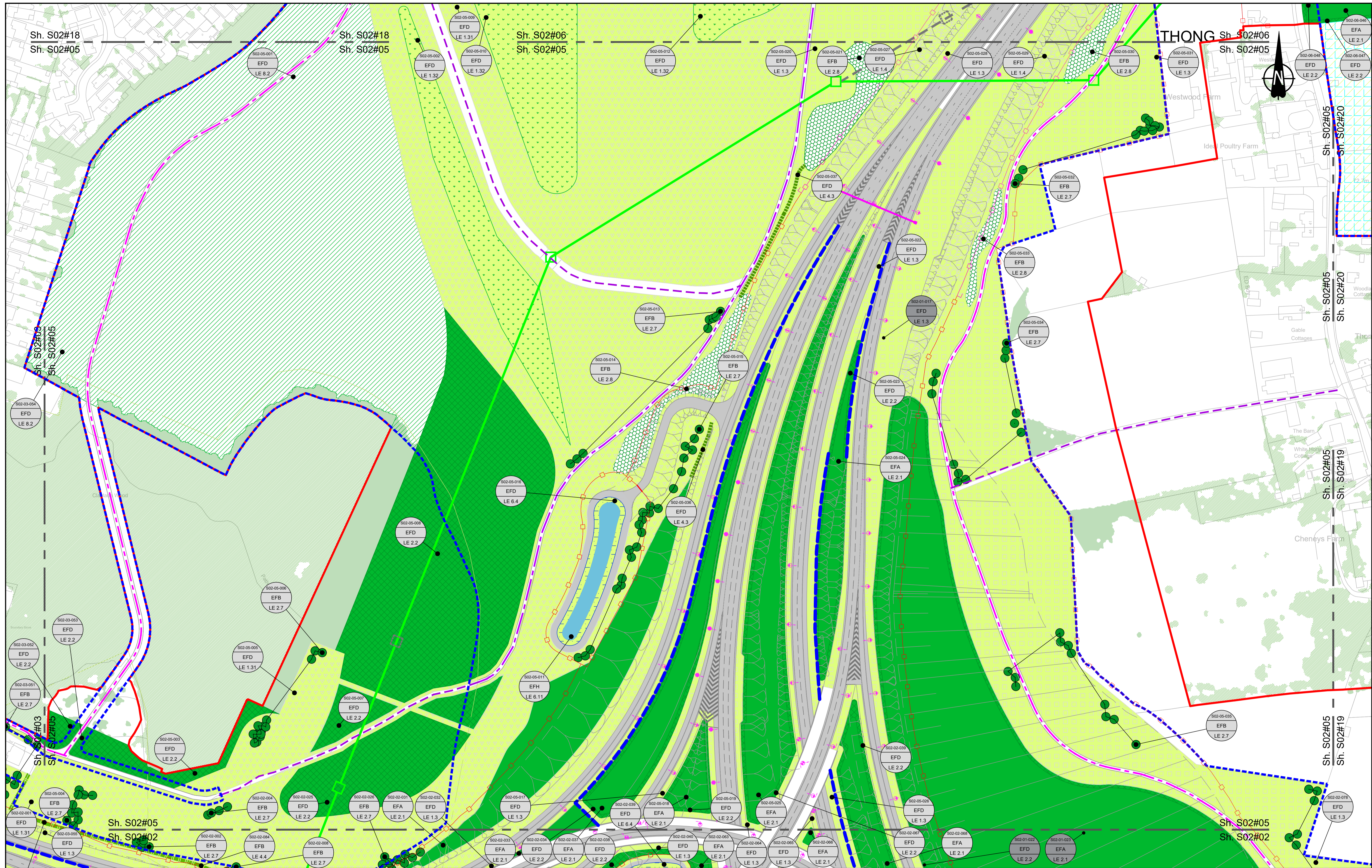
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Order Limits Red solid line Blue dashed line Permanent Acquisition of Land Blue dashed line Grassland (LE 1) LE 1.3 Species Rich Grassland LE 1.31 Species Rich Chalk Grassland LE 1.32 Species Rich Annual Wildflower Grassland LE 1.4 Rock and Scree	Planting (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 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 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)	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) E 2.7 Nitrogen Deposition (NDEP) Compensation Area	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)
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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.

P02	S9	19/07/2023	Deadline 2	LD	SK	BF
P03	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 1.31 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 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) 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)
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Client: national highways

Project: LOWER THAMES CROSSING

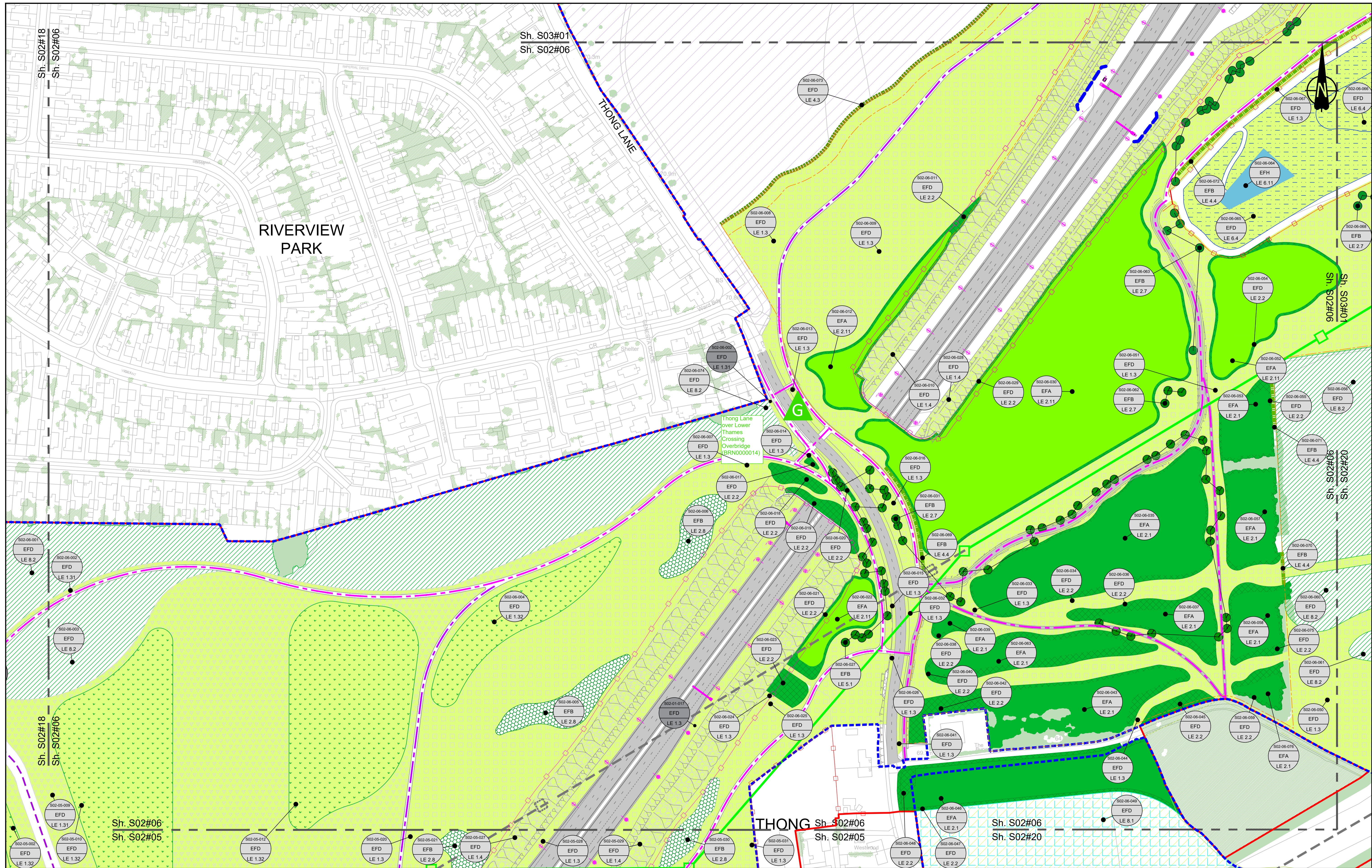
Status: DCO Application
Application Document Number: TR010032/APP/6.2

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

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).

	Order Limits		Planting (LE 2)		Individual Trees (LE 5)
	Permanent Acquisition of Land		LE 2.1 Woodland		LE 5.1 Individual Trees
	Grassland (LE 1)		LE 2.1.1 Woodland With Non-Native Species		Wetland Habitats (LE 6)
	LE 1.3 Species Rich Grassland		LE 2.1.4 Wet / Carr Woodland		LE 6.1 Marsh and Wet Grassland - Coastal Grazing Marsh
	LE 1.3.1 Species Rich Chalk Grassland		LE 2.2 Woodland Edge		LE 6.1.1 Water Bodies - Standing Water
	LE 1.3.2 Species Rich Annual Wildflower Grassland		LE 2.2.2 Scrub Woodland		LE 6.1.2 Water Bodies and Associated Plants - Shallow Scrape
	LE 1.4 Rock and Scree		LE 4.3 Native Species Hedge (untrimmed)		LE 6.2 Banks and Ditches
			LE 4.4 Native Hedgerow With Trees		LE 6.2.1 Banks and Ditches - High Tide Root Features

	LE 6.4 Wet Grassland		Ecological Habitats (LE 8)
	LE 6.4.1 Marsh and Wet Grassland - Coastal Grazing Marsh		LE 8.1 Open Mosaic Habitat
	Hard Landscape Features (LE 7)		LE 8.2 Ancient Woodland
	LE 7.4 Reinforced Earth Bund		LE 8.3 Woodland Mitigation Planting
	Proposed Contours		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		Ecological (E 9)
	E 1.2 Acoustic Barrier-Built Elements (typically inc. highway boundary fence)		E 9.2 Ecological Habitat Creation and Receptor sites for Protected Species
	Flood Compensation Areas (E 2-FC)		E 3.2 Dormouse Boxes
	Flood Defence (E 2-FD)		E 3.2 Bat Boxes
			E 3.2 Ecological Culvert
			E 3.2 Bat Block

Client: **national highways**

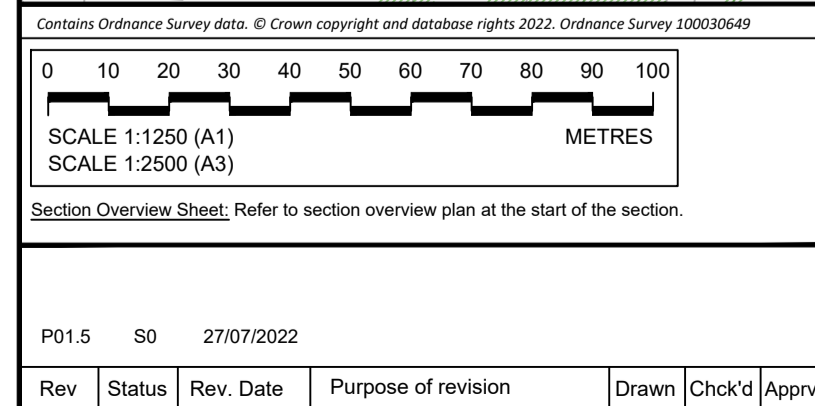
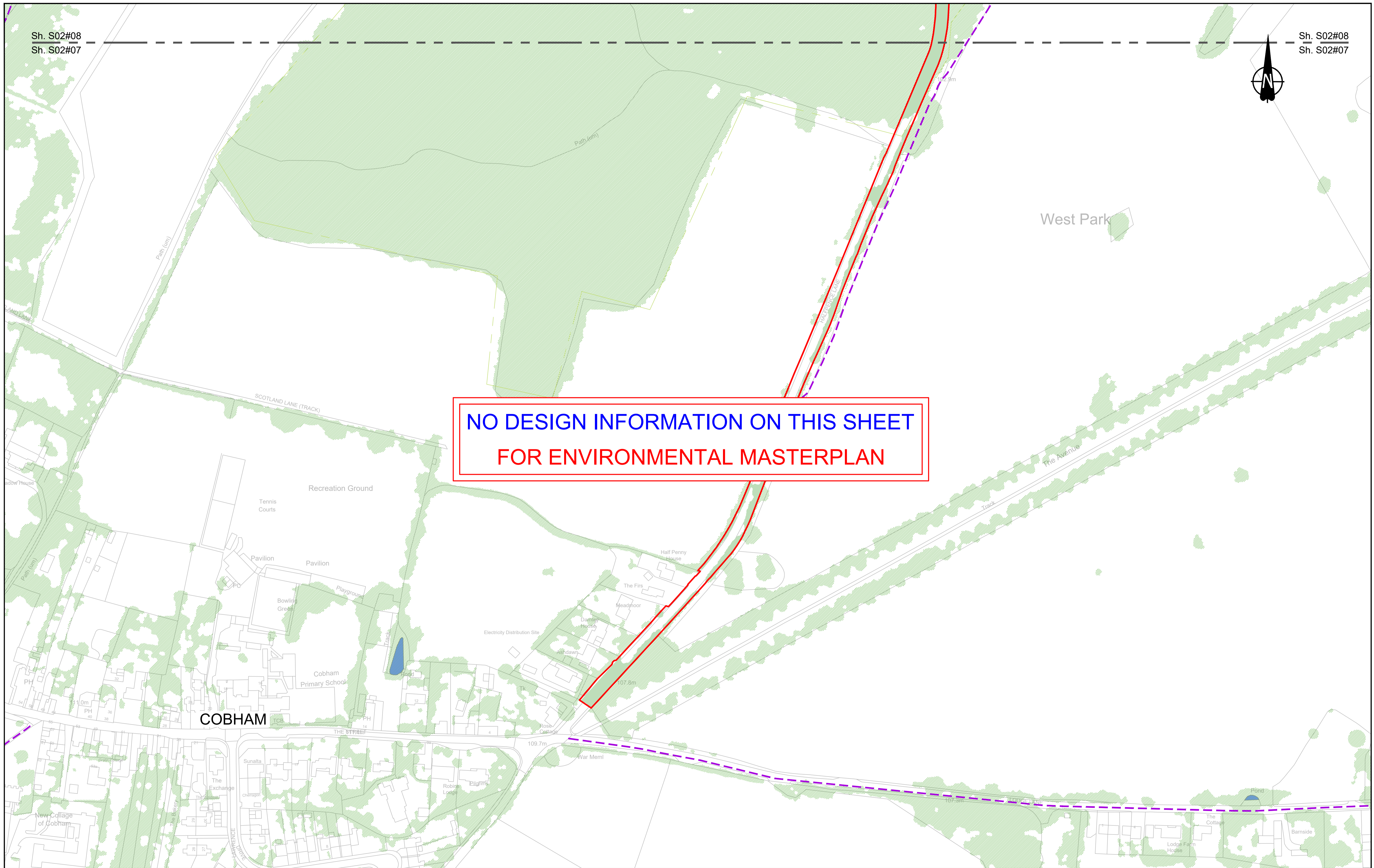
Project: **LOWER THAMES CROSSING**

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			

HE540039-CJV-EGN-S02_EN000000_Z-DR-ZZ-00007.dwg



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

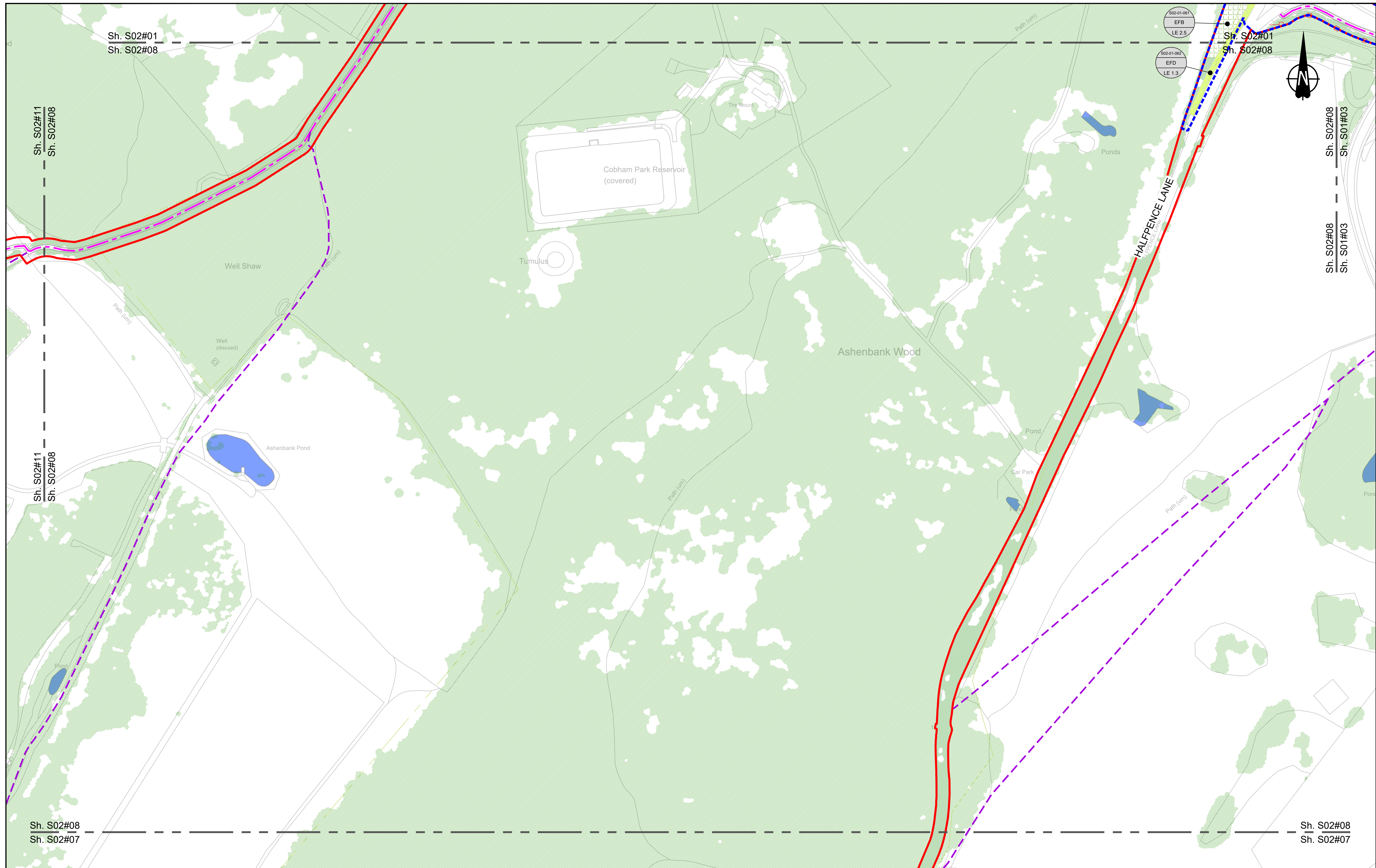


Environmental Mitigation Legend: Refer to Main Legend for baseline and scheme features (Dwg: HE540039-CJV-EGN-SZZ_EN000000_Z-DR-ZZ-00001).

Order Limits Permanent Acquisition of Land	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	Shrubs With Intermittent Trees LE 2.5 Scattered Trees LE 2.7 Hedges (LE 4) LE 4.3 Native Species Hedge (untrimmied) 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	Wet Grassland LE 6.4 Marsh and Wet Grassland - Coastal Grazing Marsh LE 6.41 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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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 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 Banks 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

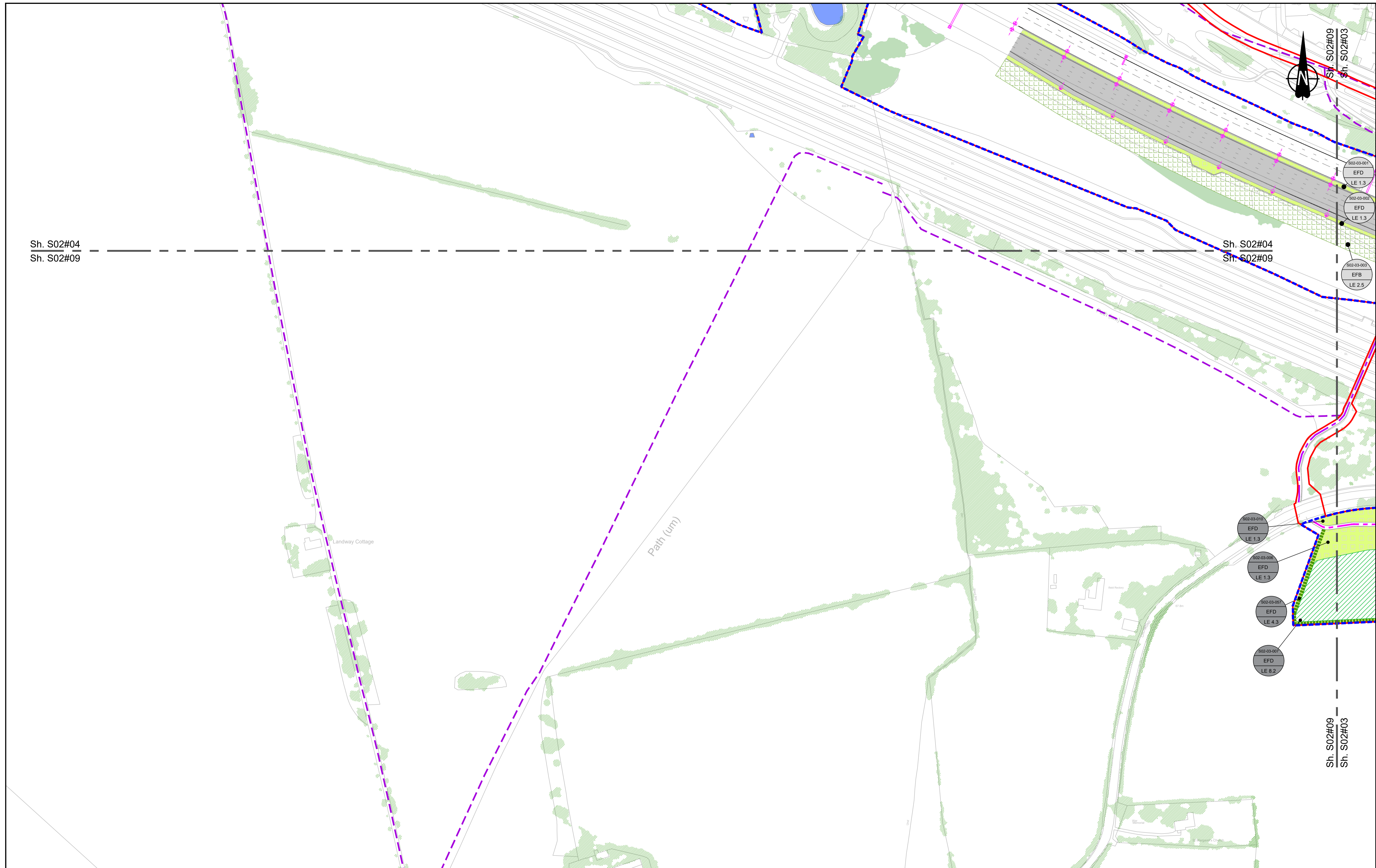
Project

LOWER THAMES CROSSING

15 St Botolph Street
London EC3A 7DT

Status	Initial Status or WIP	Original Size	Revision
Application Document Number	TR010032/APP/6.2	A1	P01.4
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

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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).

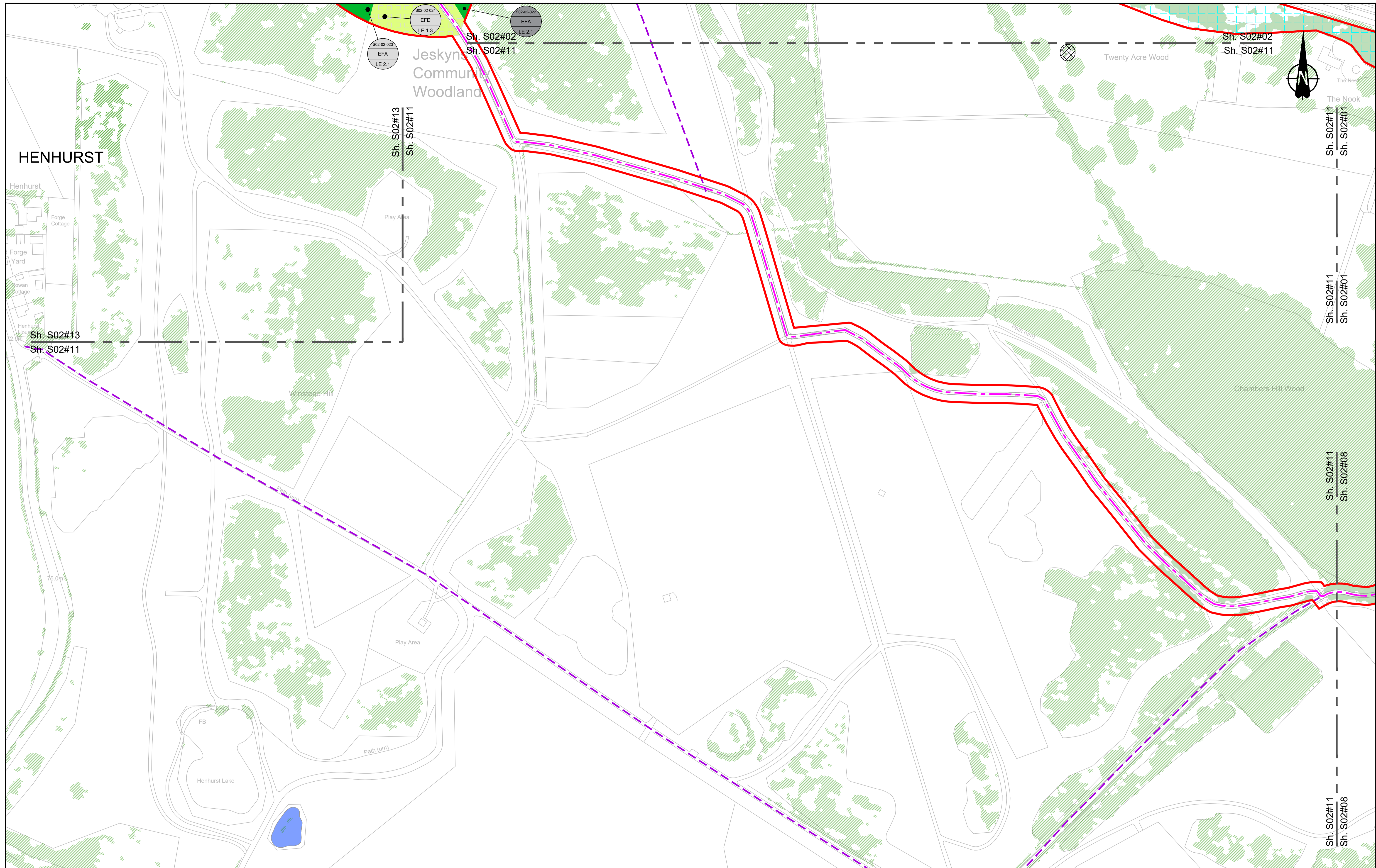
<p>Order Limits</p> <ul style="list-style-type: none"> Order Limits Permanent Acquisition of Land <p>Grassland (LE 1)</p> <ul style="list-style-type: none"> LE 1.3 Species Rich Grassland LE 1.31 Species Rich Chalk Grassland LE 1.32 Species Rich Annual Wildflower Grassland LE 1.4 Rock and Scree 	<p>Planting (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 (untrimsed) 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 Scrape LE 6.2 Banks and Ditches LE 6.21 Banks and Ditches - High Tide Roost Features 	<p>Wetland Habitats (LE 6)</p> <ul style="list-style-type: none"> LE 6.4 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 8.7 Nitrogen Deposition (NDEP) Compensation Area E 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 Barn Owl Box E 3.2 Ecological Fencing (inc. highway boundary fence)
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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	P01.3
Drawing title	ENVIRONMENTAL MASTERPLAN SECTION 2 SHEET 9		
Drawing Number	HE540039-CJV-EGN-S02_EN000000_Z-DR-ZZ-00010		

Scale: 1:1250



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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.

P01.4 SD 08/08/2022 LD

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

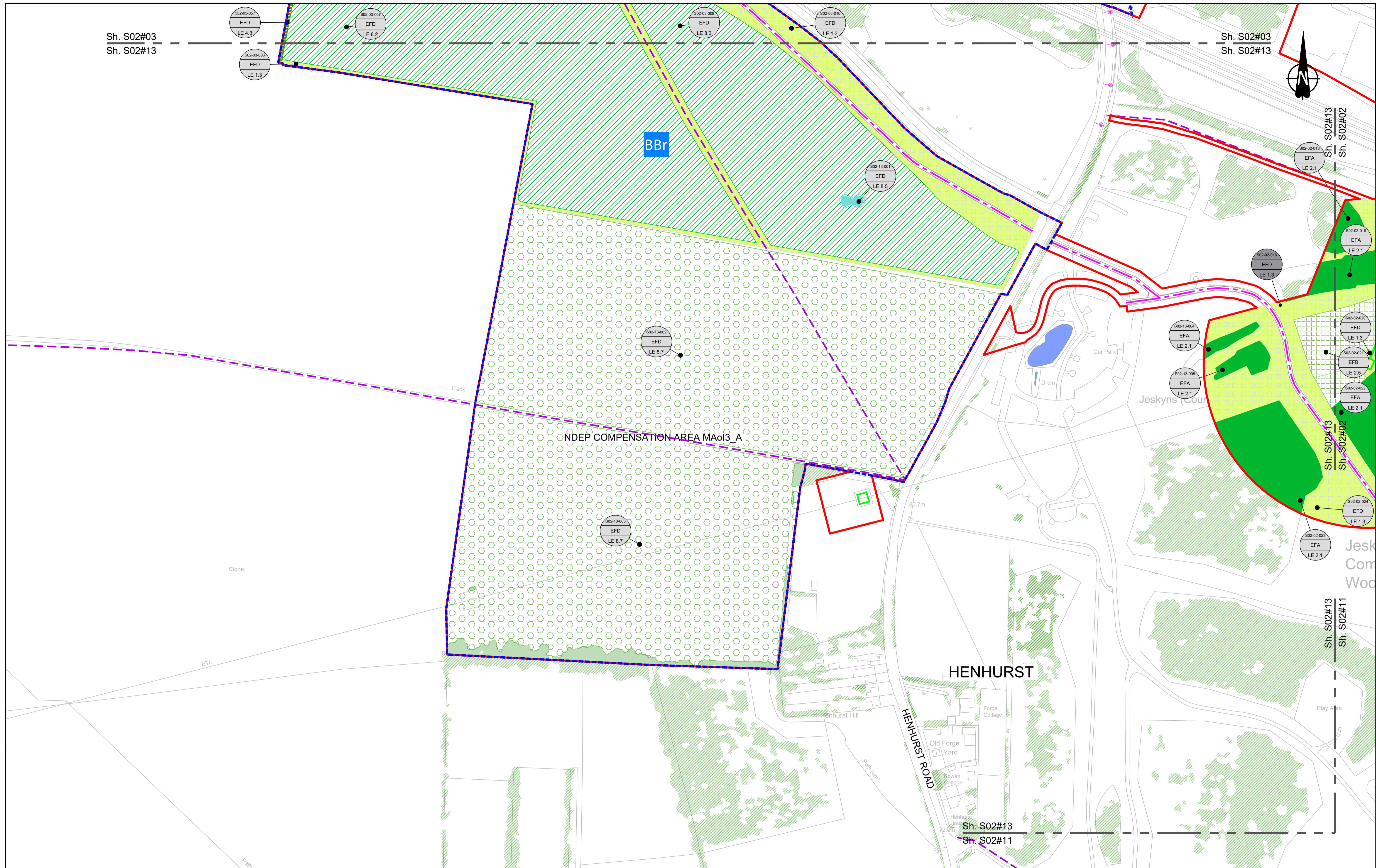
Environmental Mitigation Legend: Refer to Main Legend for baseline and scheme features (Dwg: HE540039-CJV-EGN-SZZ_EN000000_Z-DR-ZZ-00001).

Order Limits	Grassland (LE 1)	Planting (LE 2)	Shrubs With Intermittent Trees	Individual Trees (LE 5)	Wetland Habitats (LE 6)	Hard Landscape Features (LE 7)	Ecological Habitats (LE 8)	Noise (E 1)	Water (E 2)	Ecological (E 3)	E 3.2 Barn Owl Box
Order Limits	LE 1.3 Species Rich Grassland	LE 2.1 Woodland	LE 2.5 Shrubs With Intermittent Trees	LE 5.1 Individual Trees	LE 6.1 Wet Grassland	LE 7.4 Wet Grassland	LE 8.1 Open Mosaic Habitat	LE 8.7 Nitrogen Deposition (NDEP) Compensation Area	LE 2.1 Woodland	LE 8.2 Ancient Woodland Compensation Planting	E 3.2 Ecological Fencing (inc. highway boundary fence)
Permanent Acquisition of Land	LE 1.31 Species Rich Chalk Grassland	LE 2.11 Woodland With Non-Native Species	LE 2.7 Scattered Trees	LE 5.11 Water Bodies - Standing Water	LE 6.4 Marsh and Wet Grassland - Coastal Grazing Marsh	LE 7.4 Reinforced Earth Band	LE 8.2 Ancient Woodland Compensation Planting	E 1.2 Acoustic Barrier-Built Elements (typically inc. highway boundary fence)	LE 2.14 Wet / Carr Woodland	LE 8.3 Woodland Mitigation Planting	E 3.2 Dormouse Boxes
Grassland (LE 1)	LE 1.32 Species Rich Annual Wildflower Grassland	LE 2.2 Woodland Edge	Hedges (LE 4)	LE 6.12 Water Bodies and Associated Plants - Shallow Scrape	LE 7.4 Reinforced Earth Band	Earthworks	LE 8.3 Woodland Mitigation Planting	E 1.2 Acoustic Barrier-Built Elements (typically inc. highway boundary fence)	LE 2.22 Scrub Woodland	LE 8.4 Wetland / Fenland Creation	E 3.2 Bat Boxes
LE 1.4 Rock and Scree	LE 1.4 Rock and Scree	LE 2.22 Scrub Woodland	LE 4.3 Native Species Hedge (untrimmed)	LE 6.2 Banks and Ditches	Proposed Contours	LE 8.5 Ecology Pond (indicative symbol only)	LE 8.4 Wetland / Fenland Creation	Flood Compensation Areas (E 2-FCA)	LE 2.4 Linear Belt of Shrubs and Trees	LE 8.5 Ecology Pond (indicative symbol only)	E 3.2 Ecological Culvert
		LE 2.4 Linear Belt of Shrubs and Trees	LE 4.4 Native Hedgerow With Trees	LE 6.21 Banks and Ditches - High Tide Roost Features		LE 8.6 Acid Grassland Soil Salvage	LE 8.6 Acid Grassland Soil Salvage	Flood Defence (E 2-FD)			E 3.2 Bat Barn Block

Client: national highways

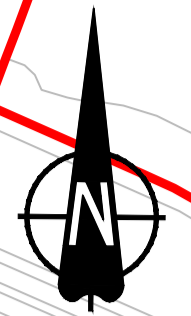
Project: LOWER THAMES CROSSING

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 11		
Drawing Number	HE540039-CJV-EGN-S02_EN000000_Z-DR-ZZ-00012		



Sh. S02#03
Sh. S02#13

Sh. S02#03
Sh. S02#13



Sh. S02#13
Sh. S02#02

Sh. S02#13
Sh. S02#02

Sh. S02#13
Sh. S02#11

Jesk
Com
Woo

Play Area

HENHURST

Sh. S02#13
Sh. S02#11

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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	Chck'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).

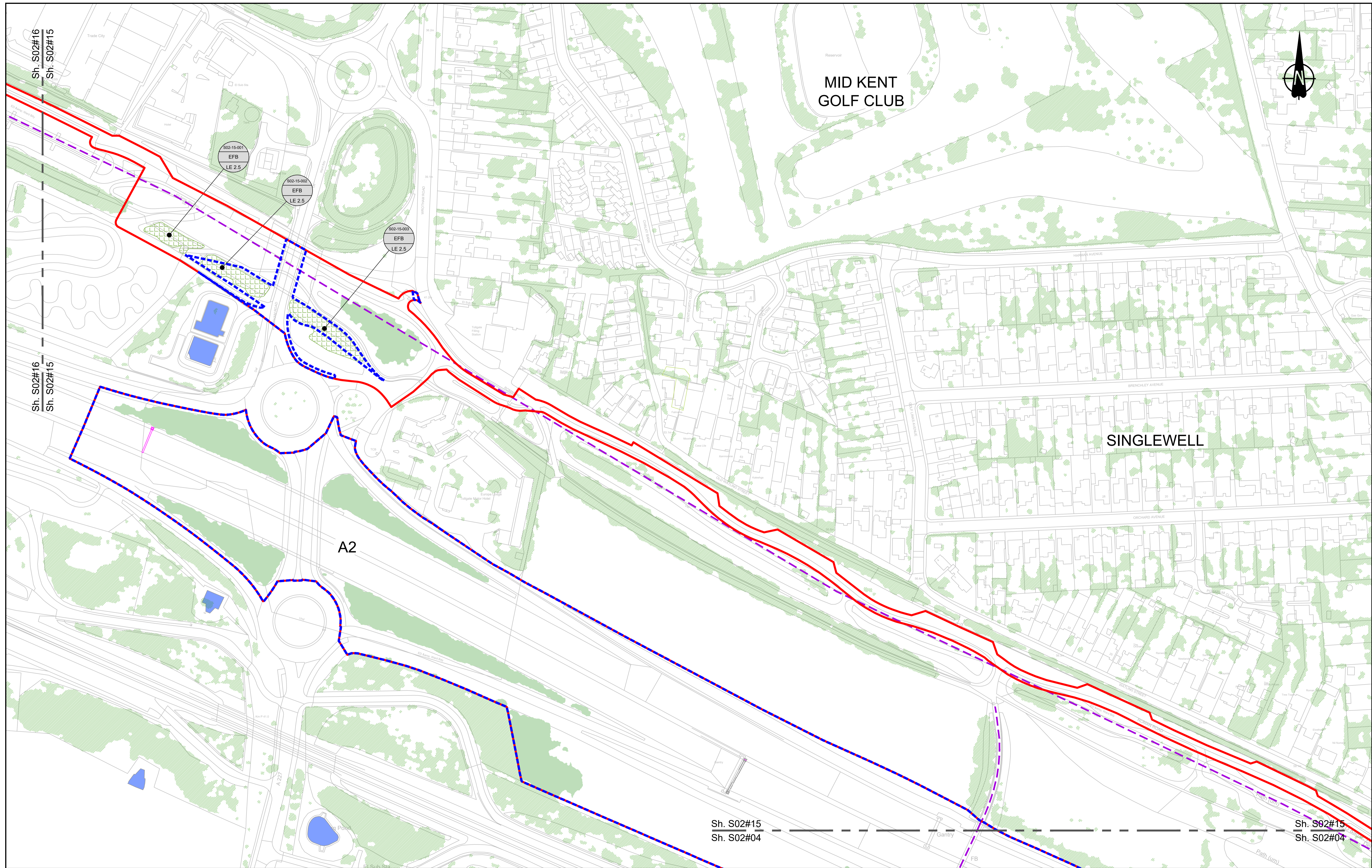
Order Limits	Planting (LE 2)	Individual Trees (LE 5)
Permanent Acquisition of Land	LE 2.1 Woodland	LE 5.1 Individual Trees
Grassland (LE 1)	LE 2.11 Woodland With Non-Native Species	Wetland Habitats (LE 6)
LE 1.3 Species Rich Grassland	LE 2.14 Wet / Carr Woodland	LE 6.1 Water Bodies - Standing Water
LE 1.31 Species Rich Chalk Grassland	LE 2.2 Woodland Edge	LE 6.12 Water Bodies and Associated Plants - Shallow Scrape
LE 1.32 Species Rich Annual Wildflower Grassland	LE 2.22 Scrub Woodland	LE 6.2 Banks and Ditches
LE 1.4 Rock and Scree	LE 2.4 Linear Belt of Shrubs and Trees	LE 6.21 Banks and Ditches - High Tide Roost Features
LE 2.5 Shrubs With Intermittent Trees	Hedges (LE 4)	Hard Landscape Features (LE 7)
LE 2.7 Scattered Trees	LE 4.3 Native Species Hedge (untrimmed)	LE 7.4 Reinforced Earth Bund
LE 2.8 Scrub / Scattered Scrub	LE 4.4 Native Hedgerow With Trees	Earthworks
Ecological Habitats (LE 8)		Proposed Contours
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	Ecological (E 3)
Noise (E 1)	E 3.2 Ecological Habitat Creation and Receptor sites for Protected Species
E 1.2 Acoustic Barrier-Built Elements (typically inc. highway boundary fence)	E 3.2 Dormouse Boxes
Water (E 2)	E 3.2 Bat Boxes
Flood Compensation Areas (E 2-FCA)	E 3.2 Ecological Culvert
Flood Defence (E 2-FD)	E 3.2 Bat Barn Block
E 3.2 Ecological Fencing (inc. highway boundary fence)	
E 3.2 Barn Owl Box	

Client	
Project	LOWER THAMES CROSSING

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

Drawing Title	
ENVIRONMENTAL MASTERPLAN	
SECTION 2	
SHEET 13	
Drawing Number	
HE540039-CJV-EGN-S02_EN000000_Z-DR-ZZ-00014	
HE540039-CJV-EGN-S02_EN000000_Z-DR-ZZ-00014.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.

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chk'd	Apprv'd
P01.4	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).

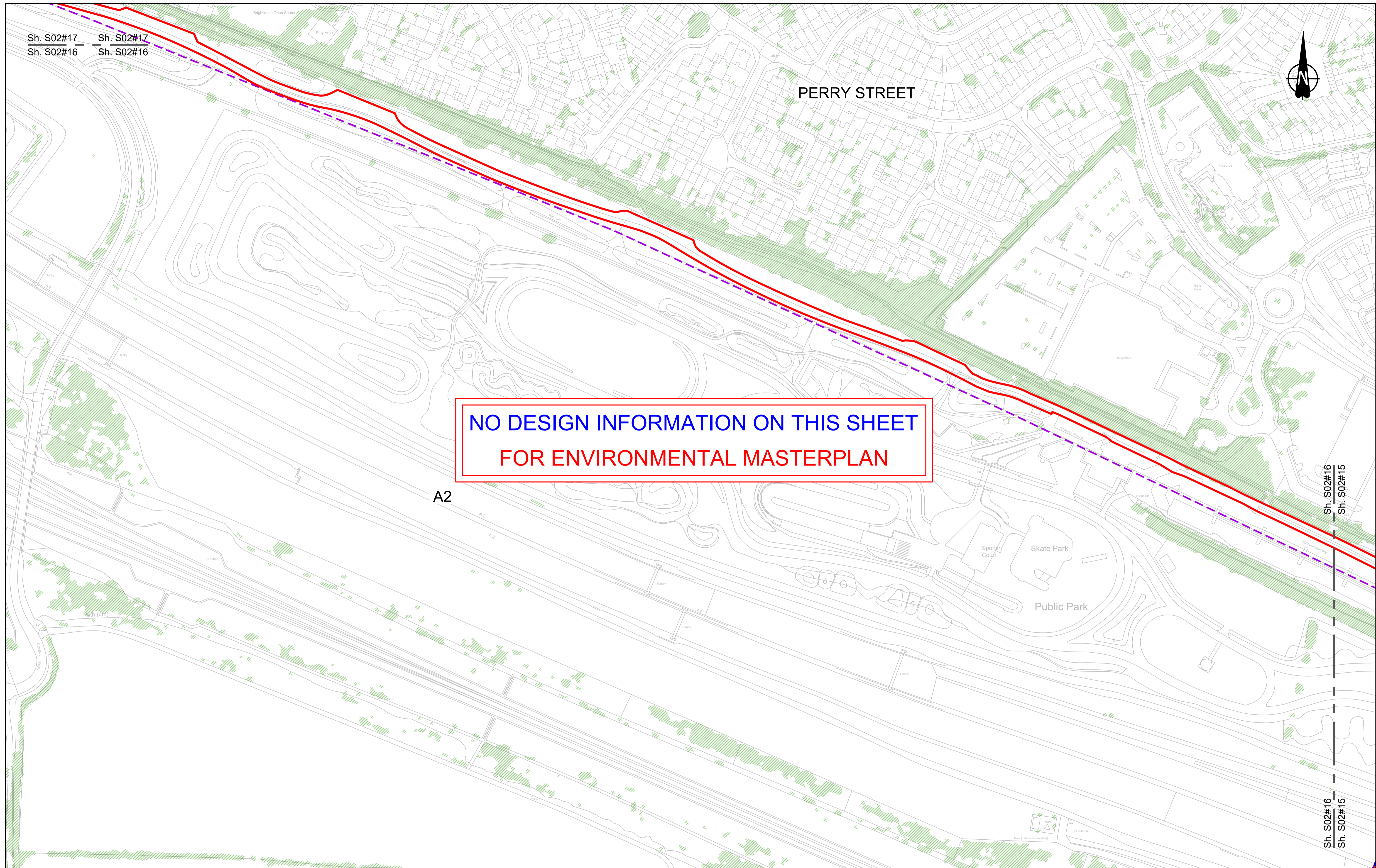
<p>Order Limits</p> <p>Permanent Acquisition of Land</p> <p>Grassland (LE 1)</p> <p>LE 1.3 Species Rich Grassland</p> <p>LE 1.31 Species Rich Chalk Grassland</p> <p>LE 1.32 Species Rich Annual Wildflower Grassland</p> <p>LE 1.4 Rock and Scree</p>	<p>Planting (LE 2)</p> <p>LE 2.1 Woodland</p> <p>LE 2.11 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 6.41 Marsh and Wet Grassland – Coastal Grazing Marsh</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>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>
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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



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

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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.

P01.5 SD 08/08/2022 LD

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

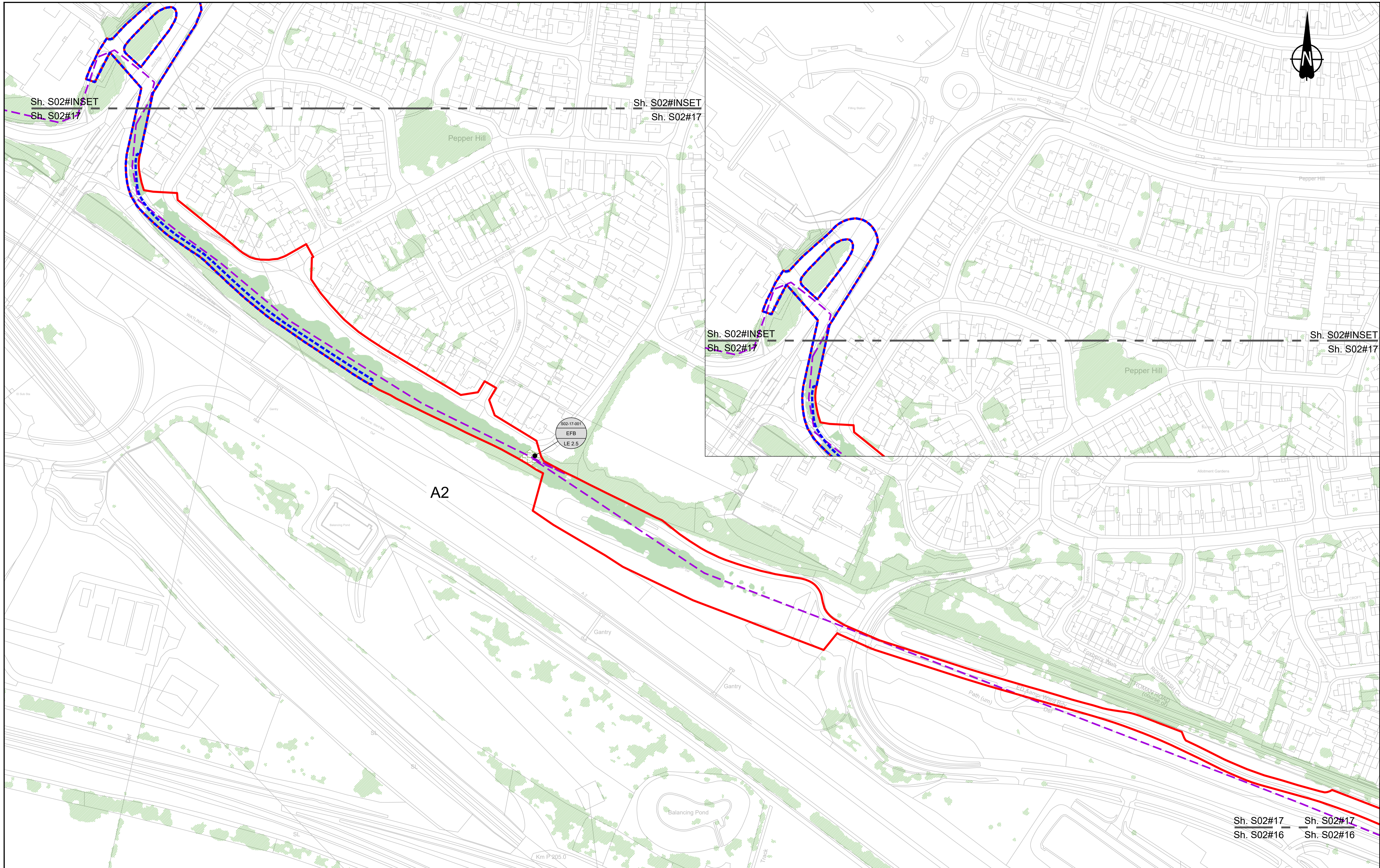
Environmental Mitigation Legend: Refer to Main Legend for baseline and scheme features (Dwg: HE540039-CJV-EGN-SZZ_EN000000_Z-DR-ZZ-00001).

Order Limits 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 Barks and Ditches LE 6.21 Barks 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) Flood Compensation Areas (E 2-FCA) LE 2.1 Nitrogen Deposition (NDEP) Compensation Area E 2.2 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)
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Client:

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 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.

P01.5 50 08/08/2022 LD

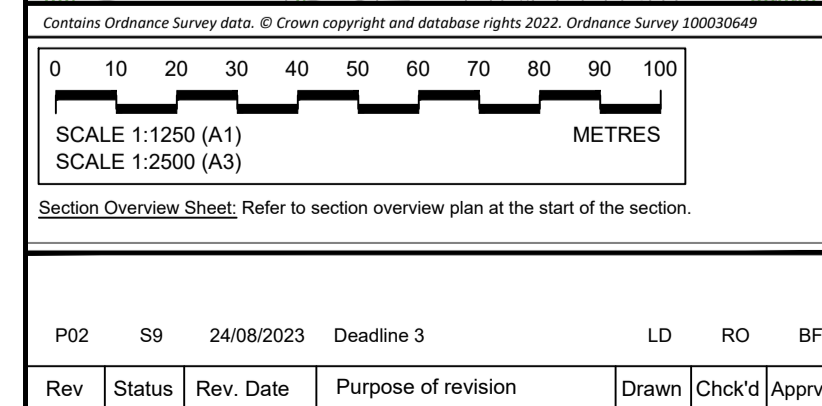
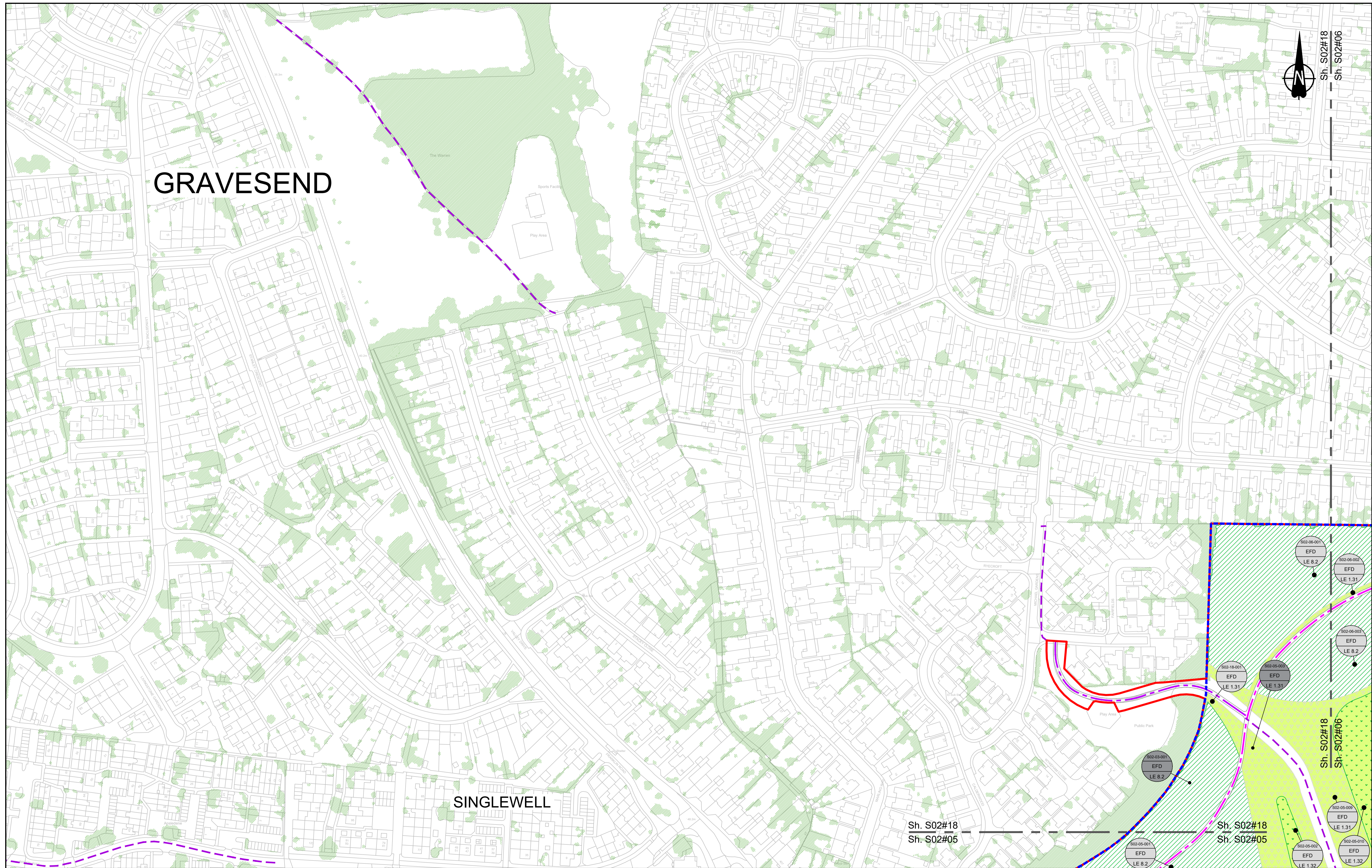
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

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) LE 2.1 Woodland LE 2.11 Woodland With Non-Native Species LE 2.14 Wet / Carr Woodland	Individual Trees (LE 5) LE 5.1 Individual Trees	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
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	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	Hard Landscape Features (LE 7) LE 7.4 Reinforced Earth Bund
Hedges (LE 4) LE 4.3 Native Species Hedge (untrimmed) LE 4.4 Native Hedgerow With Trees	LE 2.5 Shrubs With Intermittent Trees LE 2.7 Scattered Trees LE 2.8 Scrub / Scattered Scrub	LE 6.4 Marsh and Wet Grassland - Coastal Grazing Marsh	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 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		
	HE540039-CJV-EGN-S02_EN000000_Z-DR-ZZ-00018.dwg		



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)	
Permanent Acquisition of Land		LE 2.1 Woodland		LE 5.1 Individual Trees		LE 8.1 Open Mosaic Habitat		E 1.1 Acoustic Barrier-Built Elements (typically inc. highway boundary fence)		E 3.2 Ecological Habitat Creation and Receptor sites for Protected Species	
Grassland (LE 1)		LE 2.11 Woodland With Non-Native Species		Wetland Habitats (LE 6)		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 1.3 Species Rich Grassland		LE 2.14 Wet / Carr Woodland		LE 6.1 Water Bodies - Standing Water		LE 8.3 Woodland Mitigation Planting		E 2 Flood Compensation Areas (E 2-FC)		E 3.2 Dormouse Boxes	
LE 1.31 Species Rich Chalk Grassland		LE 2.2 Woodland Edge		LE 6.12 Water Bodies and Associated Plants - Shallow Scapes		LE 8.4 Wetland / Fenland Creation		E 2 Flood Defence (E 2-FD)		E 3.2 Bat Boxes	
LE 1.32 Species Rich Annual Wildflower Grassland		LE 2.22 Scrub Woodland		Hedges (LE 4)		LE 8.5 Ecology Pond (indicative symbol only)		E 3.2 Ecological Culvert		E 3.2 Bat Owl Box	
LE 1.4 Rock and Scree		LE 2.4 Linear Belt of Shrubs and Trees		LE 4.3 Native Species Hedge (untrimmed)		Hard Landscape Features (LE 7)		E 3.2 Ecological Fencing (inc. highway boundary fence)		E 3.2 Bat Block	
				LE 4.4 Native Hedgerow With Trees		LE 7.4 Reinforced Earth Bund					
				LE 4.4 Native Hedgerow With Trees		Earthworks					
						Proposed Contours					
						LE 6.21 Banks and Ditches - High Tide Root Features					
						LE 6.6 Acid Grassland Soil Salvage					

national highways

Project LOWER THAMES CROSSING

Status DCO EXAMINATION

Application Document Number TR010032/APP/6.2

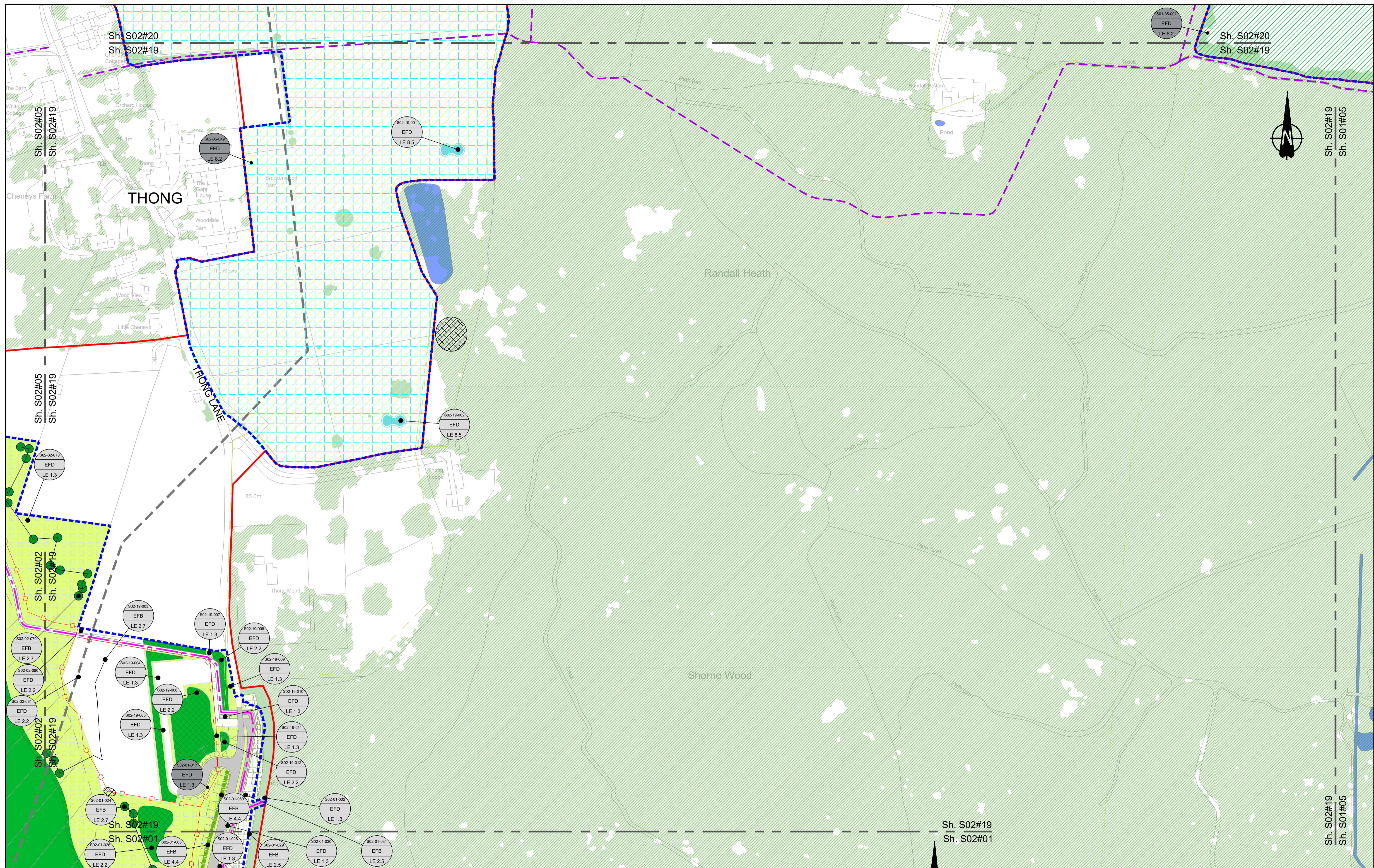
Original Size A1

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)	Individual Trees (LE 5)
Permanent Acquisition of Land	LE 2.1 Woodland	LE 5.1 Individual Trees
Grassland (LE 1)	LE 2.11 Woodland With Non-Native Species	Wetland Habitats (LE 6)
LE 1.3 Species Rich Grassland	LE 2.14 Wet / Carr Woodland	LE 6.11 Water Bodies - Standing Water
LE 1.31 Species Rich Chalk Grassland	LE 2.2 Woodland Edge	LE 6.12 Water Bodies and Associated Plants - Shallow Scraps
LE 1.32 Species Rich Annual Wildflower Grassland	LE 2.22 Scrub Woodland	LE 6.2 Banks and Ditches
LE 1.4 Rock and Scree	LE 2.4 Linear Belt of Shrubs and Trees	LE 6.21 Banks and Ditches - High Tide Roost Features
		Hard Landscape Features (LE 7)
		LE 7.4 Reinforced Earth Bund
		Earthworks (LE 4)
		LE 4.3 Native Species Hedge (untrimmed)
		LE 4.4 Native Hedgerow With Trees
		Hedges (LE 4)
		LE 2.5 Shrubs With Intermittent Trees
		LE 2.7 Scattered Trees
		LE 2.8 Scrub / Scattered Scrub

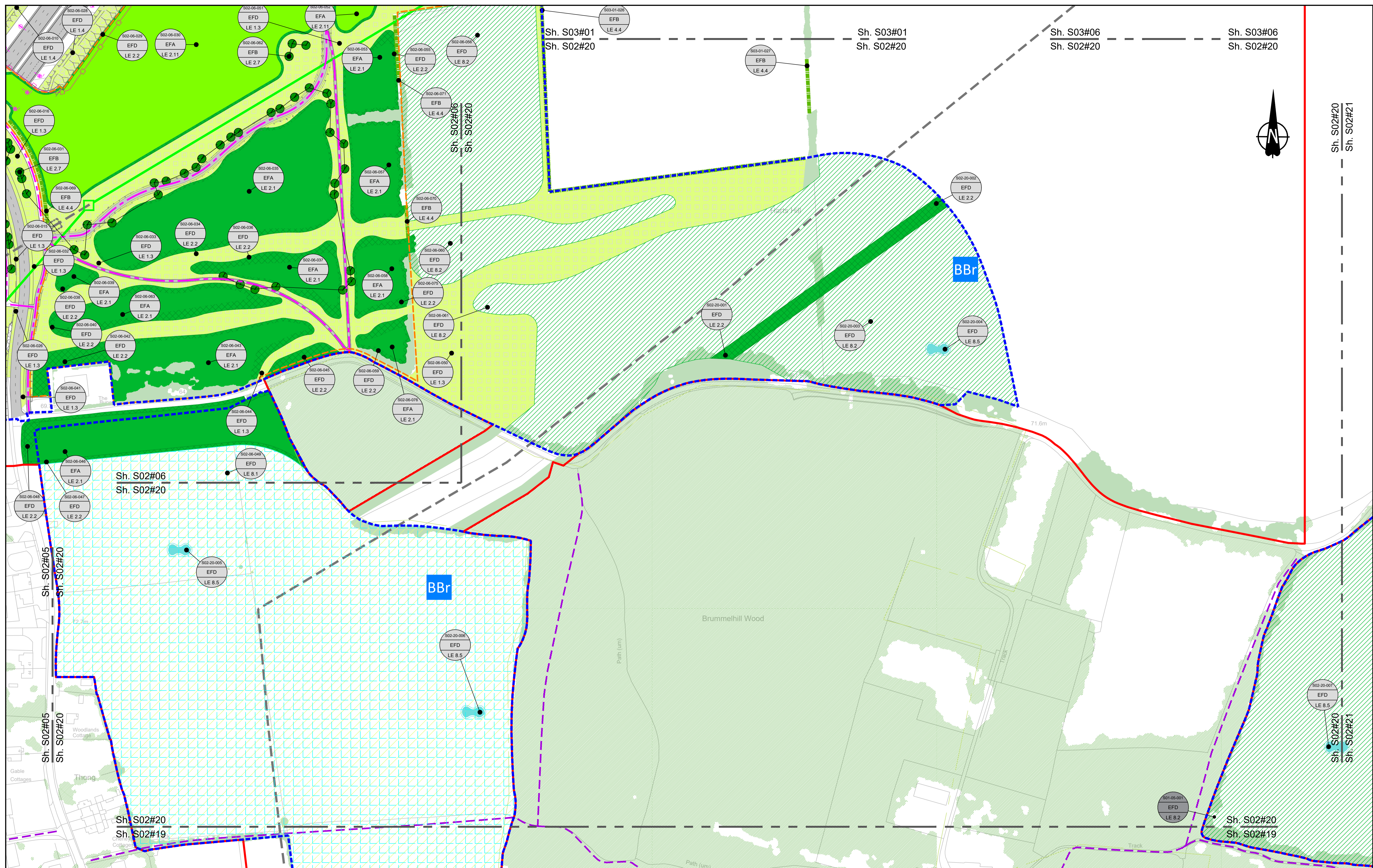
Ecological Habitats (LE 8)	Noise (E 1)	Ecological (E 3)
LE 8.1 Open Mosaic Habitat	LE 8.7 Nitrogen Deposition (NDEP) Compensation Area	E 3.2 Ecological Habitat Creation and Receptor sites for Protected Species
LE 8.2 Ancient Woodland Compensation Planting	LE 8.8 Acoustic Barrier - Built Elements (typically inc. highway boundary fence)	E 3.2 Dormouse Boxes
LE 8.3 Woodland Mitigation Planting	LE 8.9 Flood Compensation Areas (E 2-FCA)	E 3.2 Bat Boxes
LE 8.4 Wetland / Fenland Creation	LE 8.10 Flood Defence (E 2-FD)	E 3.2 Bat Block
LE 8.5 Ecology Pond (indicative symbol only)		
LE 8.6 Acid Grassland Soil Salvage		

Water (E 2)	Ecological (E 3)	Ecological (E 3)
LE 8.10 Flood Compensation Areas (E 2-FCA)	E 3.2 Ecological Habitat Creation and Receptor sites for Protected Species	E 3.2 Barn Owl Box
LE 8.11 Flood Defence (E 2-FD)	E 3.2 Dormouse Boxes	E 3.2 Ecological Fencing (inc. highway boundary fence)
	E 3.2 Bat Boxes	
	E 3.2 Bat Block	

Client: **national highways**

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		
HE540039-CJV-EGN-S02_EN000000_Z-DR-ZZ-00020.dwg		



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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 SO 08/08/2022 LD

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

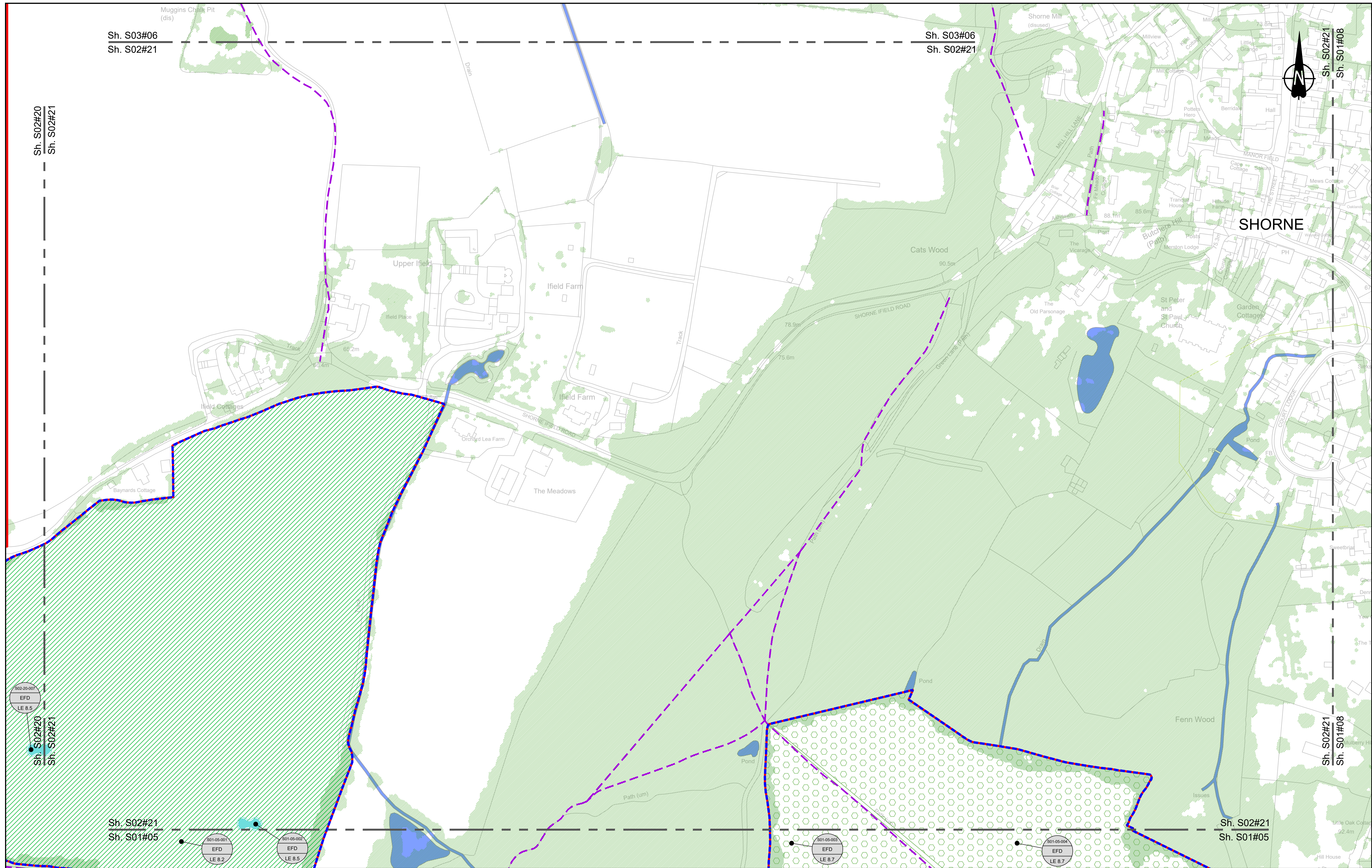
Environmental Mitigation Legend: Refer to Main Legend for baseline and scheme features (Dwg: HE540039-CJV-EGN-SZZ_EN000000_Z-DR-ZZ-00001).	
Order Limits	Planting (LE 2)
Permanent Acquisition of Land	Individual Trees (LE 8)
Grassland (LE 1)	Wetland Habitats (LE 6)
LE 1.3 Species Rich Grassland	LE 6.11 Water Bodies - Standing Water
LE 1.31 Species Rich Chalk Grassland	LE 6.12 Water Bodies and Associated Plants - Shallow Scrape
LE 1.32 Species Rich Annual Wildflower Grassland	LE 6.2 Banks and Ditches
LE 1.4 Rock and Scree	LE 6.21 Banks and Ditches - High Tide Root Features
LE 2.1 Woodland	LE 6.4 Marsh and Wet Grassland - Coastal Grazing Marsh
LE 2.11 Woodland With Non-Native Species	LE 7.4 Reinforced Earth Bund
LE 2.14 Wet / Carr Woodland	Earthworks
LE 2.2 Woodland Edge	Proposed Contours
LE 2.22 Scrub / Scattered Scrub	
LE 2.2 Woodland Edge	
LE 2.22 Scrub / Scattered Scrub	
LE 4.3 Native Species Hedge (untrimmed)	
LE 4.4 Native Hedgerow With 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	
LE 6.4 Marsh and Wet Grassland - Coastal Grazing Marsh	
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	

Client: national highways

Project: LOWER THAMES CROSSING

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

HE540039-CJV-EGN-S02_EN000000_Z-DR-ZZ-00021.dwg



Sh. S03#06
Sh. S02#21

Sh. S03#06
Sh. S02#21

Sh. S02#20
Sh. S02#21

Sh. S02#21
Sh. S01#08

SHORNE

Sh. S02#21
Sh. S01#05

Sh. S02#21
Sh. S01#05

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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		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
			LE 4.4 Native Hedgerow With Trees
			LE 6.4 Wet Grassland
			LE 6.41 Marsh and Wet Grassland - Coastal Grazing Marsh
			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 Flood 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 / Fenland Creation
			LE 8.5 Ecology Pond (indicative symbol only)
			LE 8.6 Acid Grassland Soil Salvage
			Individual Trees (LE 5)
			LE 5.1 Individual Trees
			Hard Landscape Features (LE 7)
			LE 7.4 Reinforced Earth Bund
			Earthworks
			Proposed Contours
			Noise (E 1)
			LE 8.7 Nitrogen Deposition (NDEP) Compensation Area
			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

Client:

Project: LOWER THAMES CROSSING

Status: Initial Status or WIP

Application Document Number: TR010032/APP/6.2

Scale: 1:1250

Drawing Title: ENVIRONMENTAL MASTERPLAN SECTION 2 SHEET 21

Drawing Number: HE540039-CJV-EGN-S02_EN000000_Z-DR-ZZ-00022

Original Size: A1

Revision: P01.4

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