

A12 Chelmsford to A120 widening scheme

TR010060

6.2 ENVIRONMENTAL STATEMENT FIGURE 2.1 ENVIRONMENTAL MASTERPLAN – PART 2

APFP Regulation 5(2)(a)

Planning Act 2008

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

Volume 6

August 2022

Infrastructure Planning

Planning Act 2008

A12 Chelmsford to A120 widening scheme
Development Consent Order 202[]

ENVIRONMENTAL STATEMENT
FIGURE 2.1 ENVIRONMENTAL MASTERPLAN - PART 2

Regulation Reference	Regulation 5(2)(a)
Planning Inspectorate Scheme Reference	TR010060
Application Document Reference	TR010060/APP/6.2
Author	A12 Project Team & National Highways

Version	Date	Status of Version
Rev 1	August 2022	DCO Application

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2	Schedule of plans included in this application document.....	3

1 Introduction

1.1 General

- 1.1.1 National Highways (the “Applicant”) has submitted an application under Section 37 of the Planning Act 2008 (PA 2008) for an order to grant development consent for the A12 Chelmsford to A120 Widening Scheme (the proposed scheme).
- 1.1.2 These Environmental Masterplan drawings (these Plans) have been prepared to accompany the application for a Development Consent Order (DCO), made by the Applicant to the Secretary of State for Transport (SoS) via the Planning Inspectorate (the Inspectorate).
- 1.1.3 The application is seeking powers to widen the existing A12 to three lanes between junctions 19 (Boreham interchange) and 25 (Marks Tey interchange). These works extend for a total of 15 miles (24km) and comprise two new three-lane bypasses, between the existing junction 22 and 23; and between the existing junction 24 and 25 respectively, to be known as the A12. A detailed description of the proposed scheme can be found in Chapter 2 of the Environmental Statement [TR010060/APP/6.1].
- 1.1.4 These Plans comprise part of the suite of Environmental Statement documentation and is included in the Application in compliance with Regulation 5(2)(a) of the Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulation 2009, which requires:
‘5(2)(a) where applicable, the environmental statement required pursuant to the Infrastructure Planning (Environmental Impact Assessment) Regulation 2009 and any scoping or screening opinions or directions’.
- 1.1.5 These Plans have been included in the Application to illustrate the mitigation and compensation proposals set out in the Environmental Statement.
- 1.1.6 As these Plans are part of the Application documentation, they should be read alongside and is informed by the other Application documents.

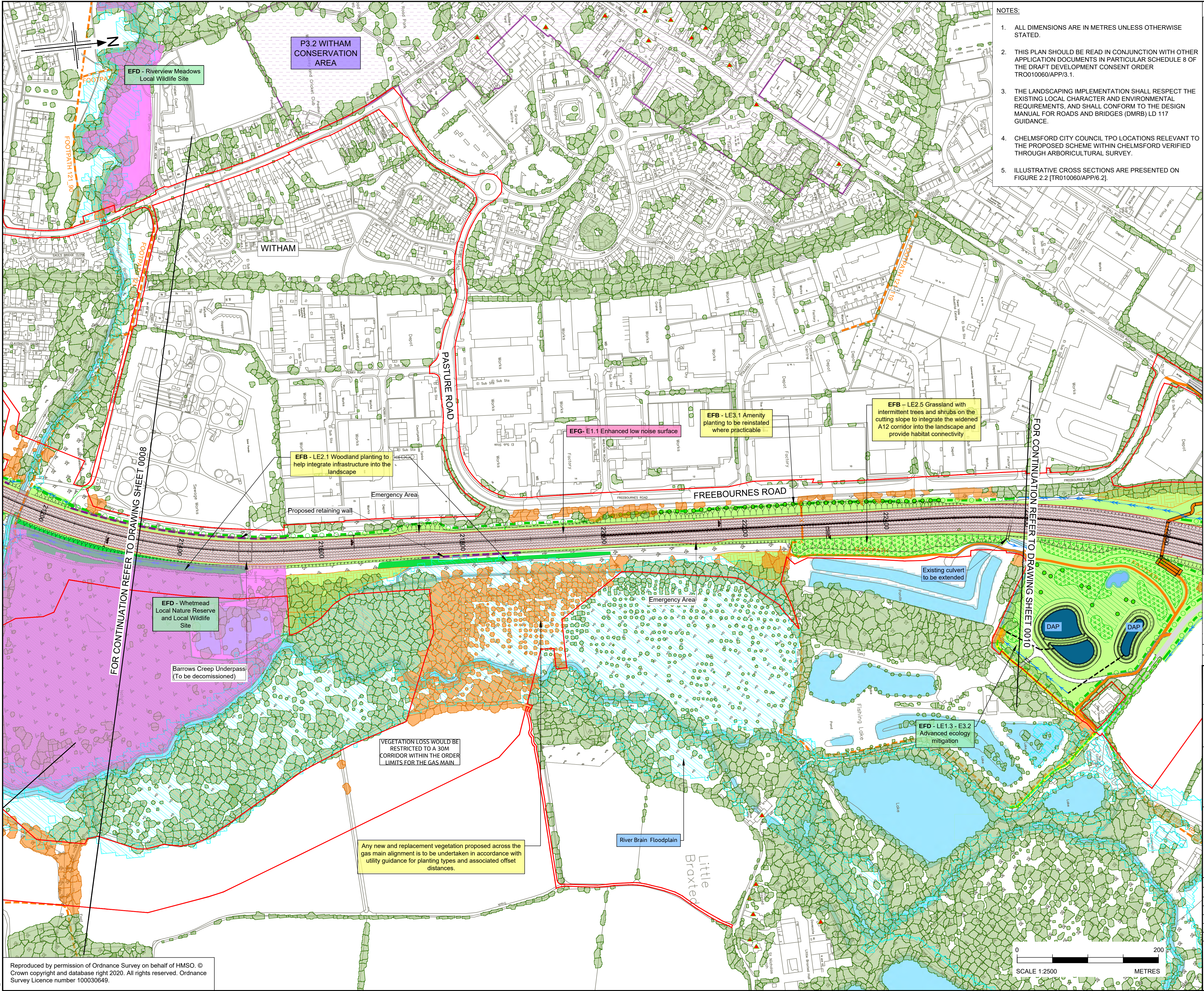
2 Schedule of plans included in this application document

Drawing Number	Drawing Title	Revision
PART 1		
HE551497-JAC-LDC-SCHW-DR-L-0200	ENVIRONMENTAL STATEMENT ENVIRONMENTAL MASTERPLAN KEY PLAN	P01
HE551497-JAC-LDC-SCHW-DR-L-0201	ENVIRONMENTAL STATEMENT ENVIRONMENTAL MASTERPLAN CH. 9500 TO 10600 SHEET 1 OF 21	P01
HE551497-JAC-LDC-SCHW-DR-L-0202	ENVIRONMENTAL STATEMENT ENVIRONMENTAL MASTERPLAN CH. 10600 TO 12100 SHEET 2 OF 21	P01
HE551497-JAC-LDC-SCHW-DR-L-0203	ENVIRONMENTAL STATEMENT ENVIRONMENTAL MASTERPLAN CH. 12100 TO 13600 SHEET 3 OF 21	P01
HE551497-JAC-LDC-SCHW-DR-L-0204	ENVIRONMENTAL STATEMENT ENVIRONMENTAL MASTERPLAN CH. 13600 TO 15400 SHEET 4 OF 21	P01

Drawing Number	Drawing Title	Revision
HE551497-JAC-LDC-SCHW-DR-L-0205	ENVIRONMENTAL STATEMENT ENVIRONMENTAL MASTERPLAN CH. 15400 TO 16800 SHEET 5 OF 21	P01
HE551497-JAC-LDC-SCHW-DR-L-0206	ENVIRONMENTAL STATEMENT ENVIRONMENTAL MASTERPLAN CH. 16800 TO 18300 SHEET 6 OF 21	P01
HE551497-JAC-LDC-SCHW-DR-L-0207	ENVIRONMENTAL STATEMENT ENVIRONMENTAL MASTERPLAN CH. 18300 TO 19600/20000 SHEET 7 OF 21	P01
HE551497-JAC-LDC-SCHW-DR-L-0208	ENVIRONMENTAL STATEMENT ENVIRONMENTAL MASTERPLAN CH. 19600/20000 TO 21400 SHEET 8 OF 21	P01
PART 2		
HE551497-JAC-LDC-SCHW-DR-L-0209	ENVIRONMENTAL STATEMENT ENVIRONMENTAL MASTERPLAN CH. 21400 TO 22600 SHEET 9 OF 21	P01
HE551497-JAC-LDC-SCHW-DR-L-0210	ENVIRONMENTAL STATEMENT ENVIRONMENTAL MASTERPLAN CH. 22600 TO 23900 SHEET 10 OF 21	P01

Drawing Number	Drawing Title	Revision
HE551497-JAC-LDC-SCHW-DR-L-0211	ENVIRONMENTAL STATEMENT ENVIRONMENTAL MASTERPLAN CH. 23900 TO 25100 SHEET 11 OF 21	P01
HE551497-JAC-LDC-SCHW-DR-L-0212	ENVIRONMENTAL STATEMENT ENVIRONMENTAL MASTERPLAN CH. 25100 TO 26500 SHEET 12 OF 21	P01
HE551497-JAC-LDC-SCHW-DR-L-0213	ENVIRONMENTAL STATEMENT ENVIRONMENTAL MASTERPLAN CH. 26500 TO 30700 SHEET 13 OF 21	P01
PART 3		
HE551497-JAC-LDC-SCHW-DR-L-0214	ENVIRONMENTAL STATEMENT ENVIRONMENTAL MASTERPLAN CH. 30700 TO 32200 SHEET 14 OF 21	P01
HE551497-JAC-LDC-SCHW-DR-L-0215	ENVIRONMENTAL STATEMENT ENVIRONMENTAL MASTERPLAN CH. 32200 TO 33700 SHEET 15 OF 21	P01
HE551497-JAC-LDC-SCHW-DR-L-0216	ENVIRONMENTAL STATEMENT ENVIRONMENTAL MASTERPLAN CH. 33700 TO 35200 SHEET 16 OF 21	P01

Drawing Number	Drawing Title	Revision
HE551497-JAC-LDC-SCHW-DR-L-0217	ENVIRONMENTAL STATEMENT ENVIRONMENTAL MASTERPLAN CH. 35200 TO 36700 SHEET 17 OF 21	P01
HE551497-JAC-LDC-SCHW-DR-L-0218	ENVIRONMENTAL STATEMENT ENVIRONMENTAL MASTERPLAN CH. 36700 TO 38200 SHEET 18 OF 21	P01
HE551497-JAC-LDC-SCHW-DR-L-0219	ENVIRONMENTAL STATEMENT ENVIRONMENTAL MASTERPLAN CH. 38200 TO 39355 SHEET 19 OF 21	P01
HE551497-JAC-LDC-SCHW-DR-L-0220	ENVIRONMENTAL STATEMENT ENVIRONMENTAL MASTERPLAN CH. 18300 TO 19600/20000 SHEET 20 OF 21	P01
HE551497-JAC-LDC-SCHW-DR-L-0221	ENVIRONMENTAL STATEMENT ENVIRONMENTAL MASTERPLAN CH. 16800 TO 18300 SHEET 21 OF 21	P01
HE551497-JAC-LDC-SCHW-DR-L-0222	ENVIRONMENTAL STATEMENT ENVIRONMENTAL MASTERPLAN LEGEND	P01



- NOTES:
1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE STATED.
 2. THIS PLAN SHOULD BE READ IN CONJUNCTION WITH OTHER APPLICATION DOCUMENTS IN PARTICULAR SCHEDULE 8 OF THE DRAFT DEVELOPMENT CONSENT ORDER TR0010060/APP/3.1.
 3. THE LANDSCAPING IMPLEMENTATION SHALL RESPECT THE EXISTING LOCAL CHARACTER AND ENVIRONMENTAL REQUIREMENTS, AND SHALL CONFORM TO THE DESIGN MANUAL FOR ROADS AND BRIDGES (DMRB) LD 117 GUIDANCE.
 4. CHELMSFORD CITY COUNCIL TPO LOCATIONS RELEVANT TO THE PROPOSED SCHEME WITHIN CHELMSFORD VERIFIED THROUGH ARBORICULTURAL SURVEY.
 5. ILLUSTRATIVE CROSS SECTIONS ARE PRESENTED ON FIGURE 2.2 [TR010060/APP/6.2].

FIGURE 2.1

BOUNDARIES

EXISTING CONTEXT

- Order Limits
- Open water
- Indicative canopies of trees over 3m (National Tree Map TM © Bluesky International Ltd); Retained (green); At Risk of Removal (amber)
- Ancient woodland
- Existing hedges: Retained (green); At Risk of Removal (amber); Important hedgerow (yellow)
- Verified ancient (VA), notable (VN) and veteran (VV) trees by the Woodland Trust
- Potential ancient (PA), notable (PN) and veteran (PV) tree (individual or tree group)
- Trees protected by Tree Preservation Order (group or individual tree)
- Local nature reserve - P3.2 EFD
- Conservation areas - P3.2
- Listed buildings - P3.1
- Registered parks and gardens - P3.2
- Scheduled monument
- Existing public right of way / walking, cycling and horse-riding user route
- Existing public right of way / walking, cycling and horse-riding user route - stopped up

PROPOSED DRAINAGE MITIGATION

- DAP
- Underground storage units
- Floodplain with scheme fluvial flood extent 1% (1 in 100) annual exceedance probability
- Flood mitigation areas

PROPOSED ENVIRONMENTAL MITIGATION

- Woodland planting of trees and shrubs - LE2.1/ LE2.2/ LE2.4
- Wet woodland - LE6.1
- Tall screen planting of trees and shrubs to elevate flight path of bats & barn owls - LE2.4
- Individual trees - LE5.1/ LE3.1
- Hedge with intermittent trees for ecological connectivity - LE4.4
- Grassland - LE1.3/ LE1.6
- Grassland with intermittent trees and shrubs - LE2.5
- Ecology mitigation area (advanced/post construction) - E3.2
- Ecological pond (indicative symbol) - LE6.1
- Noise barrier location / Acoustic barrier - E1.2
- New/realigned public right of way / walking, cycling and horse-riding user route - LE7
- Proposed borrow pit

ENVIRONMENTAL FUNCTIONS KEY

Landscape	Ecology	Acoustics
Water	Heritage	Contaminated Land

For main legend refer to sheet 22 (HE551497-JAC-LDC-SCHW-DR-L-0222)

KEY PLAN
SCALE N.T.S.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

P01	04/08/22	FOR DCO APPLICATION	DR	HA	HM	DT
Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Appr'd
Development Consent Order Number: TR010060			Development Consent Order Drawing Number: TR010060/APP/6.2			

Client: **national highways**

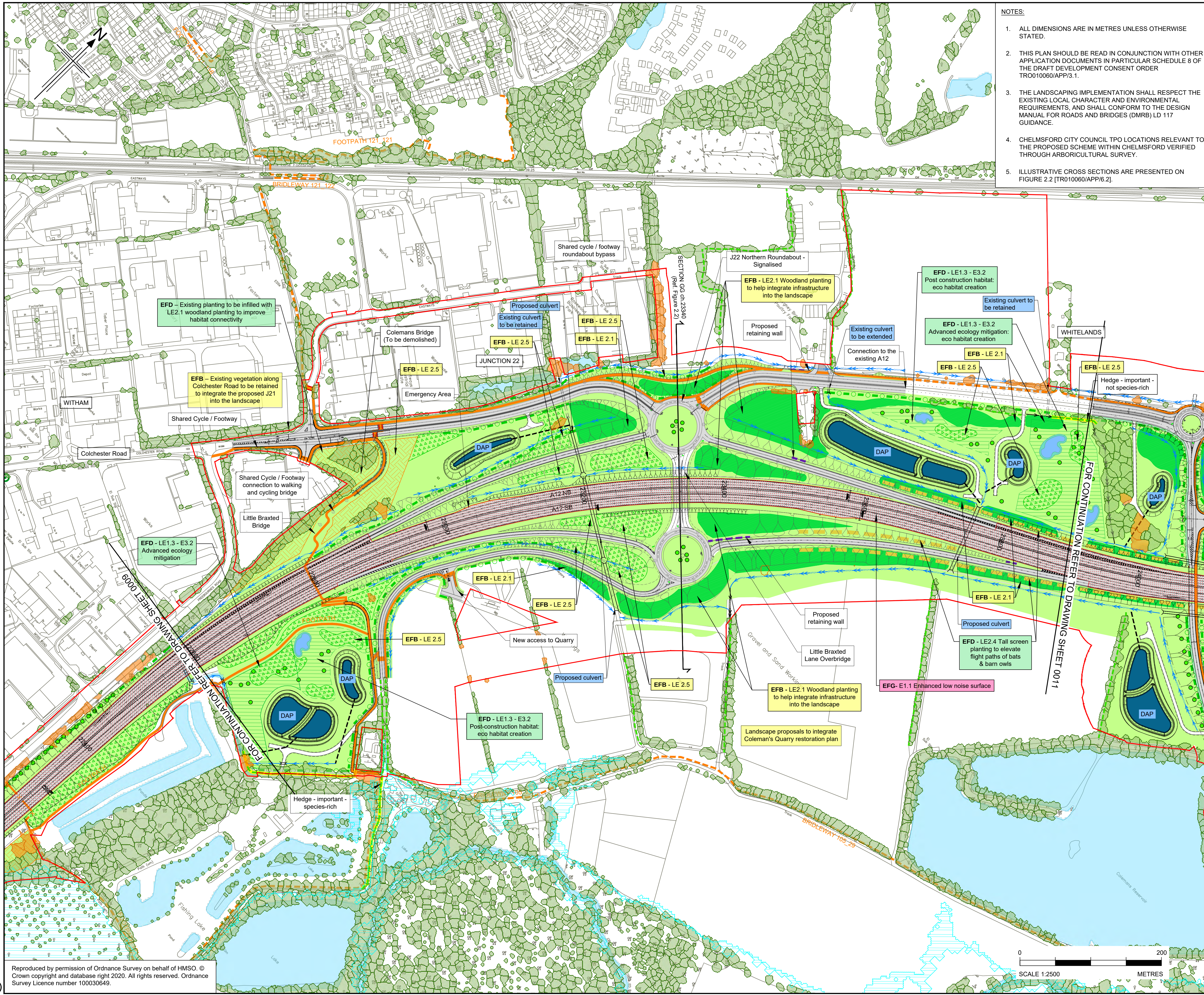
Project: **A12 CHELMSFORD TO A120 WIDENING SCHEME**

Drawing title: **ENVIRONMENTAL STATEMENT ENVIRONMENTAL MASTERPLAN CH. 21400 TO 22600 SHEET 9 OF 21**

Regulation	REGULATION 5(2)(a)	
Purpose of issue	DCO APPLICATION	
State Code	Preliminary	
Project Stage	PCF 3	Drawing status
Scale at A1 (841x594mm)	1:2500	S4
Jacobs No.	B36601D1	Rev
Client no.	HE551497	P01

Drawing number: **HE551497 - JAC - LDC - SCHW - DR - L -0209**

Originator: **JAC** | Volume: **L** | Location: **SCHW** | Type: **DR** | Role: **L** | Number: **0209**



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 - CHELMSFORD CITY COUNCIL TPO LOCATIONS RELEVANT TO THE PROPOSED SCHEME WITHIN CHELMSFORD VERIFIED THROUGH ARBORICULTURAL SURVEY.
 - ILLUSTRATIVE CROSS SECTIONS ARE PRESENTED ON FIGURE 2.2 [TRO10060/APP/6.2].

- FIGURE 2.1
- BOUNDARIES**
- Order Limits
- EXISTING CONTEXT**
- Open water
 - Indicative canopies of trees over 3m (National Tree Map TM © Bluesky International Ltd); Retained (green); At Risk of Removal (amber)
 - Ancient woodland
 - Existing hedges; Retained (green); At Risk of Removal (amber); Important hedgerow (yellow)
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 - Local nature reserve - P3.2 EFD
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 - Existing public right of way / walking, cycling and horse-riding user route
 - Existing public right of way / walking, cycling and horse-riding user route - stopped up

- PROPOSED DRAINAGE MITIGATION**
- DAP
 - Underground storage units
 - Floodplain with scheme fluvial flood extent 1% (1 in 100) annual exceedance probability
 - Flood mitigation areas
- PROPOSED ENVIRONMENTAL MITIGATION**
- Woodland planting of trees and shrubs - LE2.1/ LE2.2/ LE2.4
 - Wet woodland - LE6.1
 - Tall screen planting of trees and shrubs to elevate flight path of bats & barn owls - LE2.4
 - Individual trees - LE5.1/ LE3.1
 - Hedge with intermittent trees for ecological connectivity - LE4.4
 - Grassland - LE1.3/ LE1.6
 - Grassland with intermittent trees and shrubs - LE2.5
 - Ecology mitigation area (advanced/post construction) - E3.2
 - Ecological pond (indicative symbol) - LE6.1
 - Noise barrier location / Acoustic barrier - E1.2
 - New/reallocated public right of way / walking, cycling and horse-riding user route - LE7
 - Proposed borrow pit

- ENVIRONMENTAL FUNCTIONS KEY**
- | Landscape | Ecology | Acoustics |
|-----------|----------|-------------------|
| Water | Heritage | Contaminated Land |

For main legend refer to sheet 22 (HE551497-JAC-LDC-SCHW-DR-L-0222)

KEY PLAN
SCALE N.T.S.

P01	04/08/22	FOR DCO APPLICATION	DR	HA	HM	DT
Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Appr'd
Development Consent Order Number:			Development Consent Order Drawing Number:			
TRO10060			TRO10060/APP/6.2			



Client

Project

A12 CHELMSFORD TO A120 WIDENING SCHEME

Drawing title

ENVIRONMENTAL STATEMENT
ENVIRONMENTAL MASTERPLAN
CH. 22600 TO 23900
SHEET 10 OF 21

Regulation	REGULATION 5(2)(a)				
Purpose of issue	DCO APPLICATION				
State Code	Preliminary				Drawing status
Project Stage	PCF 3				S4
Scale at A1 (841x594mm)	1:2500				Rev
Jacobs No.	B36601D1				P01
Client no.	HE551497				

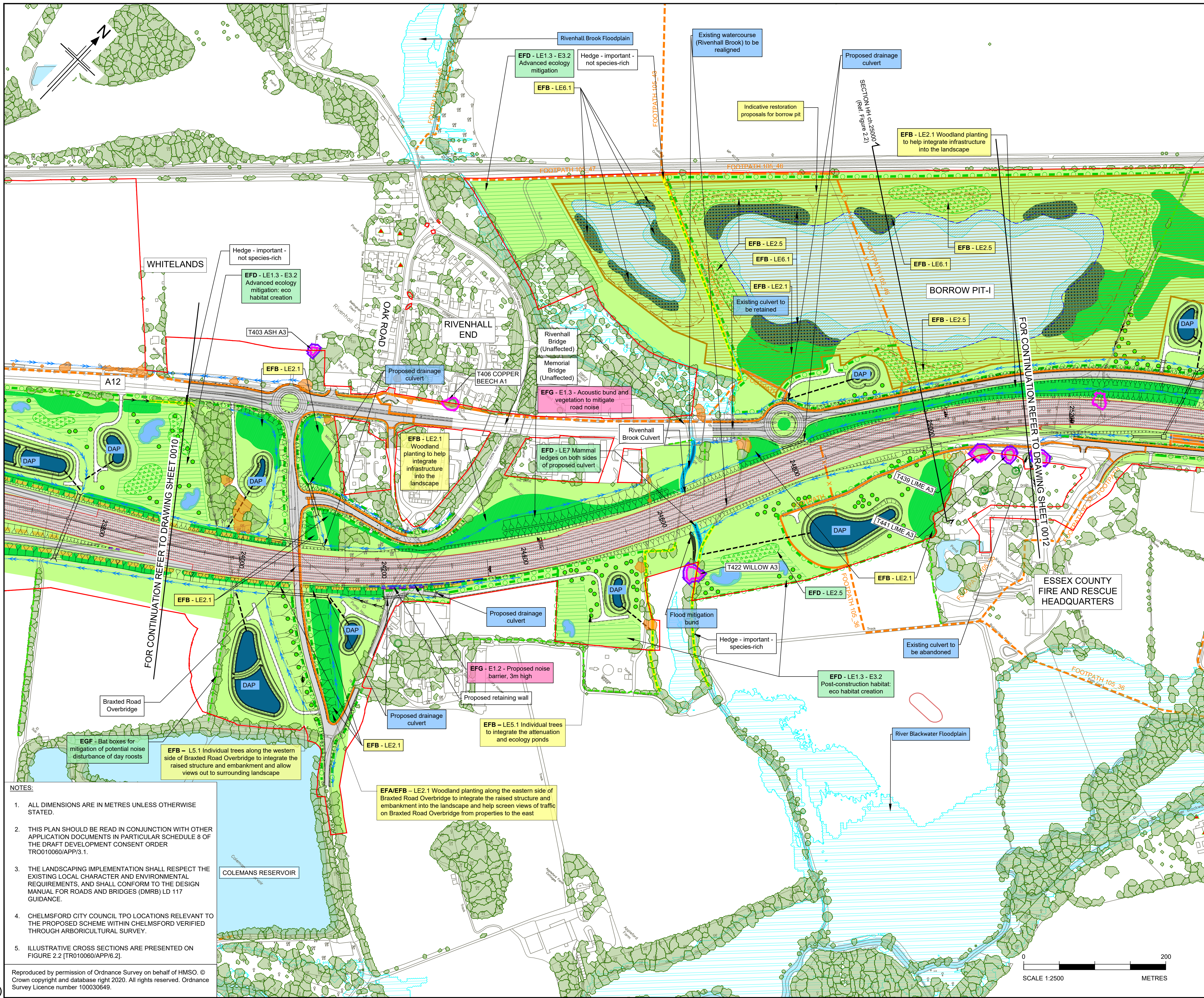
Drawing number PIN

Originator

Volume

HE551497 - JAC - LDC - SCHW - DR - L -0210

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 - ILLUSTRATIVE CROSS SECTIONS ARE PRESENTED ON FIGURE 2.2 (TR010060/APP/6.2).

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FIGURE 2.1

BOUNDARIES

EXISTING CONTEXT

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- Conservation areas - P3.2
- Listed buildings - P3.1
- Registered parks and gardens - P3.2
- Scheduled monument
- Existing public right of way / walking, cycling and horse-riding user route
- Existing public right of way / walking, cycling and horse-riding user route - stopped up

PROPOSED DRAINAGE MITIGATION

- DAP
- Underground storage units
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PROPOSED ENVIRONMENTAL MITIGATION

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- Wet woodland - LE6.1
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- Grassland - LE1.3/ LE1.6
- Grassland with intermittent trees and shrubs - LE2.5
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- Ecological pond (indicative symbol) - LE6.1
- Noise barrier location / Acoustic barrier - E1.2
- New/realigned public right of way / walking, cycling and horse-riding user route - LE7
- Proposed borrow pit

ENVIRONMENTAL FUNCTIONS KEY

Landscape	Ecology	Acoustics
Water	Heritage	Contaminated Land

*For main legend refer to sheet 22 (HE551497-JAC-LDC-SCHW-DR-L-0222)

KEY PLAN
SCALE N.T.S.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

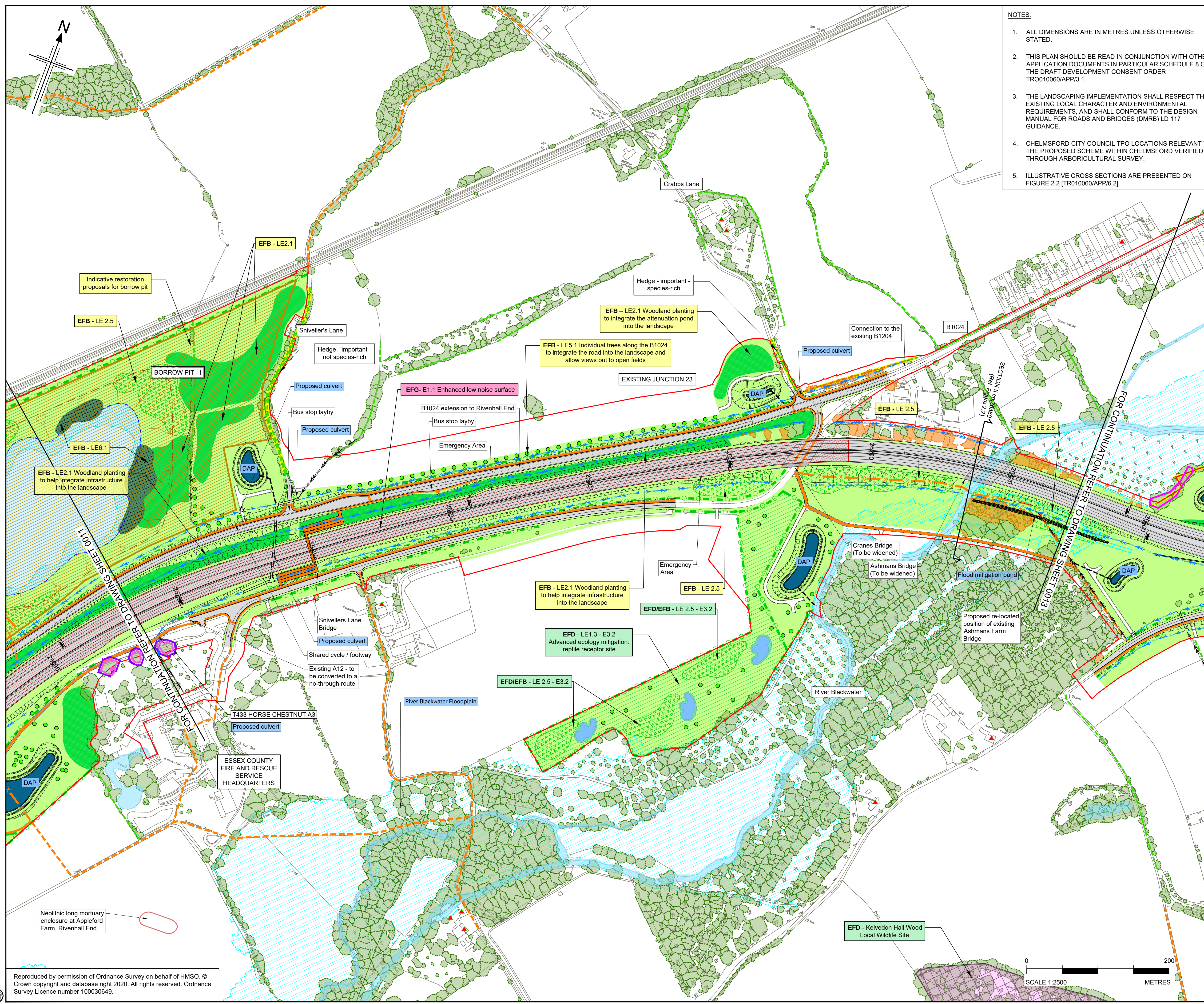
P01	04/08/22	FOR DCO APPLICATION	DR	HA	HM	DT
Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Appr'd
Development Consent Order Number: TR010060			Development Consent Order Drawing Number: TR010060/APP/6.2			

Client: **national highways**

Project: **A12 CHELMSFORD TO A120 WIDENING SCHEME**

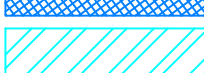
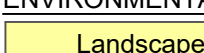
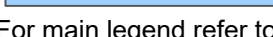
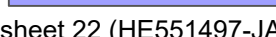
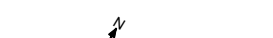
Drawing title: **ENVIRONMENTAL STATEMENT ENVIRONMENTAL MASTERPLAN CH. 23900 TO 25100 SHEET 11 OF 21**

Regulation	REGULATION 5(2)(a)	
Purpose of issue	DCO APPLICATION	
State Code	Preliminary	
Project Stage	PCF 3	Drawing status
Scale at A1 (841x594mm)	1:2500	S4
Jacobs No.	B36601D1	Rev
Client no.	HE551497	P01
Drawing number	PIN	Originator
HE551497 - JAC - LDC - SCHW		
	Location	Type Role Number
		-DR- L -0211



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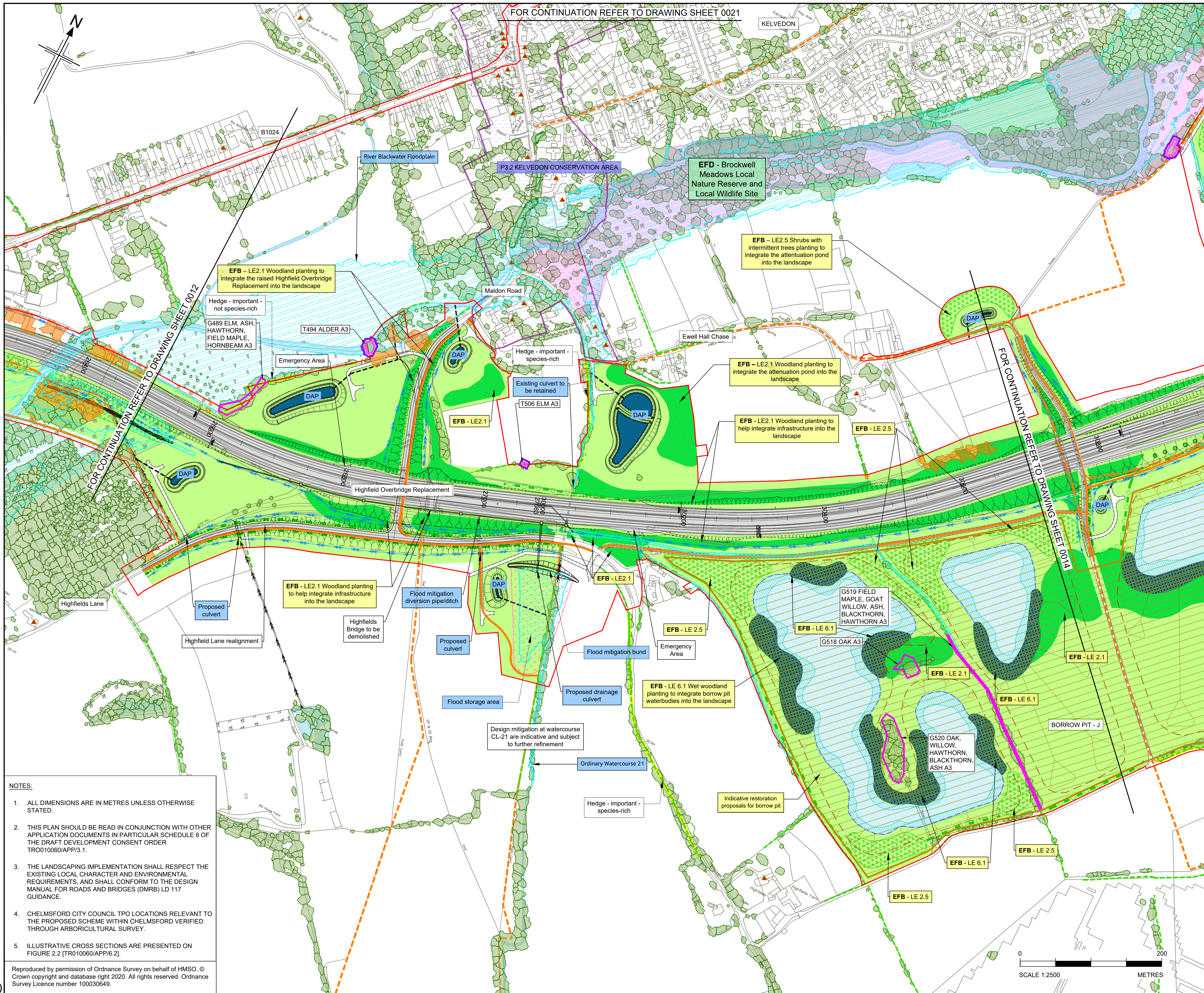
FIGURE 2.1

BOUNDARIES	
	Order Limits
EXISTING CONTEXT	
	Open water
	Indicative canopies of trees over 3m (National Tree Map TM © Bluesky International Ltd): Retained (green); At Risk of Removal (amber)
	Ancient woodland
	Existing hedges: Retained (green); At Risk of Removal (amber); Important hedgerow (yellow)
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	Local nature reserve - P3.2 EFD
	Conservation areas - P3.2
	Listed buildings - P3.1
	Registered parks and gardens - P3.2
	Scheduled monument
	Existing public right of way / walking, cycling and horse-riding user route
	Existing public right of way / walking, cycling and horse-riding user route - stopped up
PROPOSED DRAINAGE MITIGATION	
	Drainage attenuation and water treatment pond - outfall designed to environmental best practice
	Underground storage units
	Floodplain with scheme fluvial flood extent 1% (1 in 100) annual exceedance probability
	Flood mitigation areas
PROPOSED ENVIRONMENTAL MITIGATION	
	Woodland planting of trees and shrubs - LE2.1/ LE2.2/ LE2.4
	Wet woodland - LE6.1
	Tall screen planting of trees and shrubs to elevate flight path of bats & barn owls - LE2.4
	Individual trees - LE5.1/ LE3.1
	Hedge with intermittent trees for ecological connectivity - LE4.4
	Grassland - LE1.3/ LE1.6
	Grassland with intermittent trees and shrubs - LE2.5
	Ecology mitigation area (advanced/post construction) - E3.2
	Ecological pond (indicative symbol) - LE6.1
	Noise barrier location / Acoustic barrier - E1.2
	New/realigned public right of way / walking, cycling and horse-riding user route - LE7
	Proposed borrow pit
ENVIRONMENTAL FUNCTIONS KEY	
	Landscape
	Ecology
	Acoustics
	Water
	Heritage
	Contaminated Land

*For main legend refer to sheet 22 (HE551497-JAC-LDC-SCHW-DR-L-0222)

KEY PLAN SCALE N.T.S.						
P01	04/08/22	FOR DCO APPLICATION	DR	HA	HM	DT
Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd
Development Consent Order Number:			Development Consent Order Drawing Number:			
TR010060			TR010060/APP/6.2			
Client						
Project						
A12 CHELMSFORD TO A120 WIDENING SCHEME						
Drawing title						
ENVIRONMENTAL STATEMENT ENVIRONMENTAL MASTERPLAN CH. 25100 TO 26500 SHEET 12 OF 21						
Regulation		REGULATION 5(2)(a)				
Purpose of issue		DCO APPLICATION				
State Code		Preliminary				
Project Stage		PCF 3		Drawing status		
Scale at A1 (841x594mm)		1:2500		S4		
Jobs No.		B366001D1		Rev		P01
Client no.		HE551497				
Drawing number						
PIN		Originator		Volume		
HE551497-		JAC		- LDC -		
Location		Schw		Type Role Number		
Schw		-DR-		L -0212		

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FIGURE 2.1

BOUNDARIES

Order Limits

EXISTING CONTEXT

Open water

Indicative canopies of trees over 3m (National Tree Map TM © Bluesky International Ltd); Retained (green); At Risk of Removal (amber)

Ancient woodland

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Conservation areas - P3.2

Listed buildings - P3.1

Registered parks and gardens - P3.2

Scheduled monument

Existing public right of way / walking, cycling and horse-riding user route

Existing public right of way / walking, cycling and horse-riding user route - stopped up

PROPOSED DRAINAGE MITIGATION

DAP

Drainage attenuation and water treatment pond - outfall designed to environmental best practice

Underground storage units

Floodplain with scheme fluvial flood extent 1% (1 in 100) annual exceedance probability

Flood mitigation areas

PROPOSED ENVIRONMENTAL MITIGATION

Woodland planting of trees and shrubs - LE2.1/ LE2.2/ LE2.4

Wet woodland - LE6.1

Tall screen planting of trees and shrubs to elevate flight path of bats & barn owls - LE2.4

Individual trees - LE5.1/ LE3.1

Hedge with intermittent trees for ecological connectivity - LE4.4

Grassland - LE1.3/ LE1.6

Grassland with intermittent trees and shrubs - LE2.5

Ecology mitigation area (advanced/post construction) - E3.2

Ecological pond (indicative symbol) - LE6.1

Noise barrier location / Acoustic barrier - E1.2

New/realigned public right of way / walking, cycling and horse-riding user route - LE7

Proposed borrow pit

ENVIRONMENTAL FUNCTIONS KEY

Landscape

Ecology

Acoustics

Water

Heritage

Contaminated Land

For main legend refer to sheet 22 (HE551497-JAC-LDC-SCHW-DR-L-0222)

KEY PLAN

SCALE N.T.S.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

P01	04/08/22	FOR DCO APPLICATION	DR	HA	HM	DT
Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	App'n'd
Development Consent Order Number:			Development Consent Order Drawing Number:			
TR010060			TR010060/APP/6.2			

Client

national highways

Project

A12 CHELMSFORD TO A120 WIDENING SCHEME

Drawing title

ENVIRONMENTAL STATEMENT

ENVIRONMENTAL MASTERPLAN

CH. 26500 TO 30700

SHEET 13 OF 21

Regulation	REGULATION 5(2)(a)	
Purpose of issue	DCO APPLICATION	
State Code	Preliminary	
Project Stage	PCF 3	Drawing status
Scale at A1 (841x594mm)	1:2500	S4
Jacobs No.	B36601D1	Rev
Client no.	HE551497	P01

Drawing number	PIN	Originator	Volume
HE551497 - JAC - LDC - SCHW			
	Location	Type	Role
			Number

SCALE 1:2500

METRES