

M25 junction 28 improvement scheme TR010029

6.2 Environmental Statement

Chapters 1-4: Introductory chapters figures

APFP Regulation 5(2)(a)
Planning Act 2008

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



Infrastructure Planning

Planning Act 2008

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

M25 junction 28 scheme Development Consent Order 202[x]

6.2 ENVIRONMENTAL STATEMENT CHAPTER 1-4: INTRODUCTORY CHAPTERS FIGURES

Regulation Number:	Regulation 5(2)(a)
Planning Inspectorate Scheme Reference:	TR010029
Application Document Reference:	TR010029/APP/6.2
Author:	M25 junction 28 improvement scheme project team, Highways England

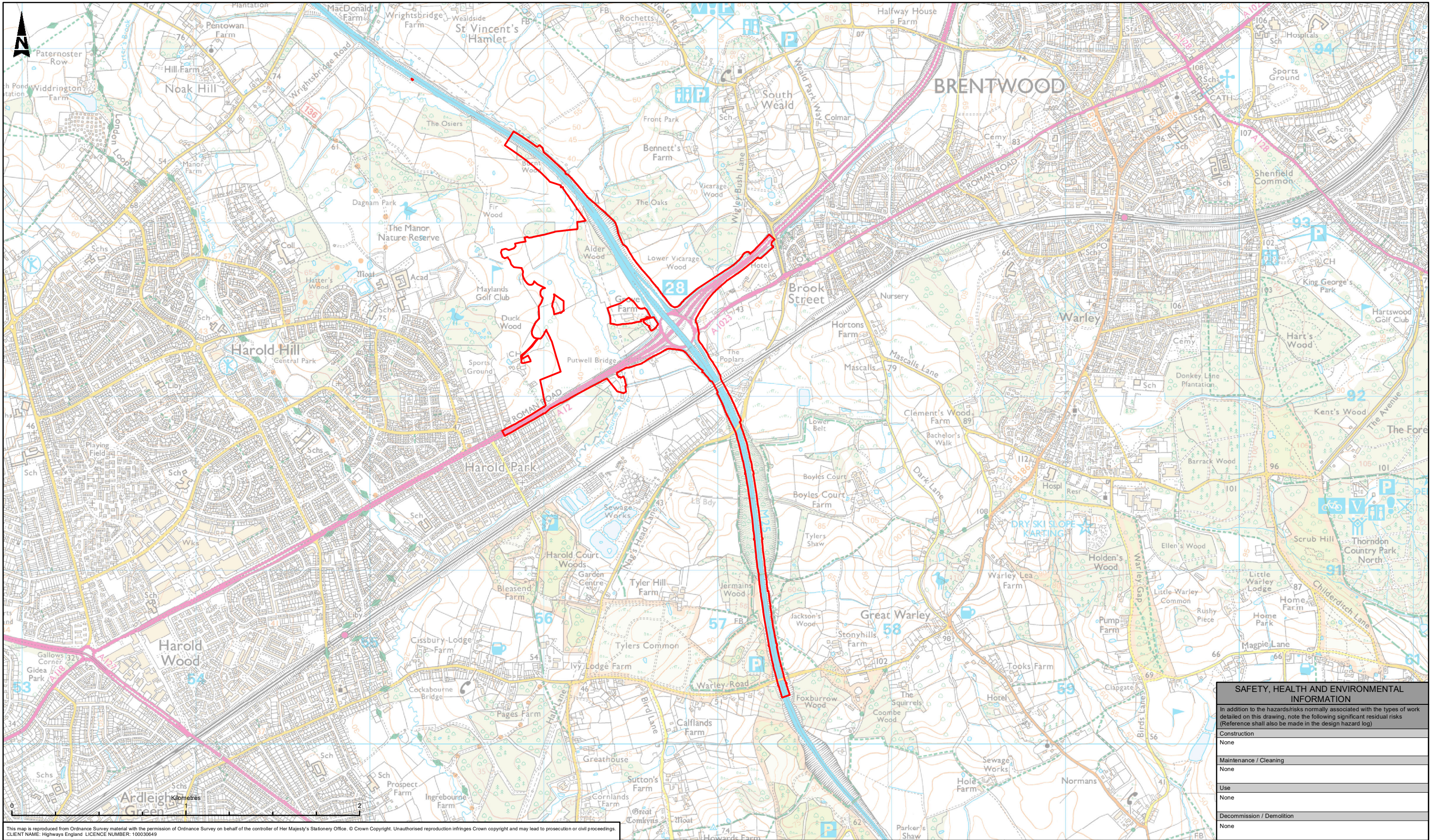
Version	Date	Status of Version
3	30 June 2021	Deadline 9, final version
2	April 2021	Deadline 5, incorporated changes 1-4
1	May 2020	Application issue

Table of contents

Chapter	Pages
1. Schedule of figures included in this application document	4

1. Schedule of figures included in this application document

Document title	Document number	Revision
Figure 1.1 Preliminary Order Limits	TR010029/APP/6.2	1
Figure 2.1 Environmental Constraints	TR010029/APP/6.2	1
Figure 2.2 Preliminary Environmental Design Key Sheet	TR010029/APP/6.2	2
Figure 2.2 Preliminary Environmental Design Sheet 1 of 4	TR010029/APP/6.2	2
Figure 2.2 Preliminary Environmental Design Sheet 2 of 4	TR010029/APP/6.2	0
Figure 2.2 Preliminary Environmental Design Sheet 3 of 4	TR010029/APP/6.2	2
Figure 2.2 Preliminary Environmental Design Sheet 4 of 4	TR010029/APP/6.2	0



This map is reproduced from Ordnance Survey material with the permission of Ordnance Survey on behalf of the controller of Her Majesty's Stationery Office. © Crown Copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings.
CLIENT NAME: Highways England LICENCE NUMBER: 100030649

LEGEND							
<div><div></div> DCO Boundary</div>							

Description							
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	
Description							
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	
Description							
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	
Description							
PUBLISHED							
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	
A1	C04	SD	AR	EM	PG	03/06/21	
Description							
PUBLISHED							
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	
A1	C03	SD	AR	EM	PG	27/02/20	

Drawing Suitability

PUBLISHED

Status

A1

ATKINS

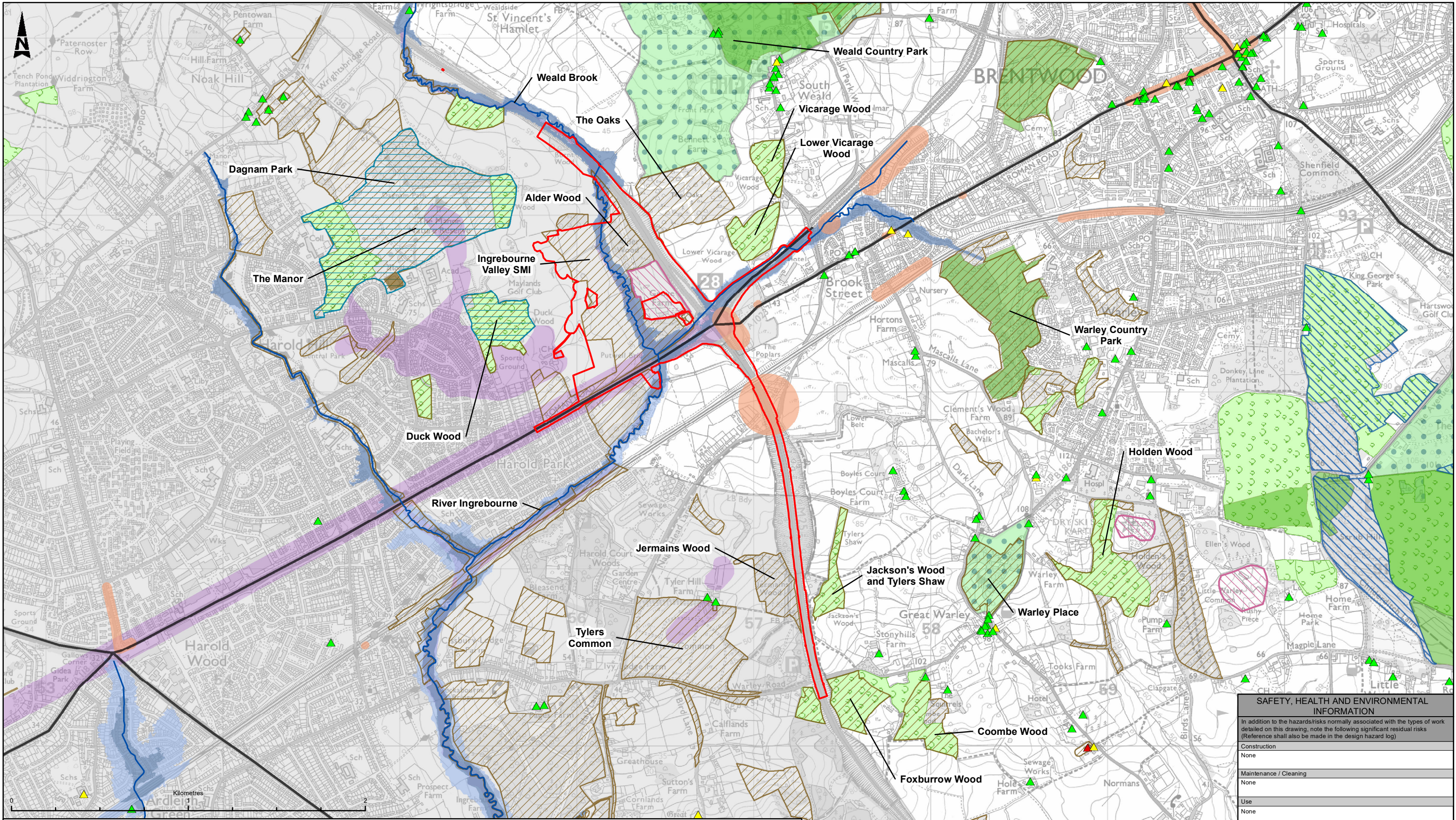
Member of the SNC-Lavalin Group

Epsom Gateway
Ashley Avenue
Epsom
Surrey
KT18 5AL

Tel: +44 (0) 1372 726140
Fax: +44 (0) 1372 740055
www.atkinsglobal.com

Copyright © Atkins Limited (2021)

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION							
In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made in the design hazard log)							
Construction							
None							
Maintenance / Cleaning							
None							
Use							
None							
Decommission / Demolition							
None							
Project Title				M25 Junction 28			
Drawing Title				FIGURE 1.1 PRELIMINARY ORDER LIMITS			
Drawing Number				HE551519 - ATK - EAC XX - GS - GI - 000001			
Original Size: A3	Scale: 1:20,000	Project Ref. No: ---	Sheet: 1 of 1	Rev: C04			



This map is reproduced from Ordnance Survey material with the permission of Ordnance Survey on behalf of the controller of Her Majesty's Stationery Office. © Crown Copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings.
CLIENT NAME: Highways England LICENCE NUMBER: 100030649
© Historic England 2021. Contains Ordnance Survey data © Crown copyright and database right 2021. The Historic England GIS Data contained in this material was obtained in 2020. The most publicly available up to date Historic England GIS Data can be obtained from HistoricEngland.org.uk.
© Natural England copyright. Contains Ordnance Survey data © Crown copyright and database right 2021. NB The LNR national dataset is 'indicative' not 'definitive'. Definitive information can only be provided by individual local authorities and you should refer directly to their information for all purposes that require the most up to date and complete dataset.
Contains public sector information licensed under the Open Government Licence v2.0. Flood Zone and Historic Landfill data © Environment Agency 2021. HER Data Source: Greater London Historic Environment Record.

LEGEND

DCO Boundary

Sites of Special Scientific Interest (SSSI)

Scheduled Monuments

Ancient Woodland

Historic Landfill Sites

Registered Parks and Gardens

Local Nature Reserves (LNR)

Biodiversity Designated Sites (LoWS and SINCS)

Country Parks

Noise Important Areas

Air Quality Management Areas

Archaeological Priority Areas

Flood Zone 3

Flood Zone 2

River Network

Pollution Climate Mapping (PCM) Links

Listed Buildings Grade I

Listed Buildings Grade II*

Listed Buildings Grade II

Description		Status		Revision		Drawn		Checked		Reviewed		Authorised		Issue Date	
PUBLISHED		A1		C04		SD		AR		EM		PG		03/06/21	
Description		Status		Revision		Drawn		Checked		Reviewed		Authorised		Issue Date	
PUBLISHED		A1		C03		SD		AR		EM		PG		27/02/20	

PUBLISHED

ATKINS

Member of the SNC-Lavalin Group

Copyright © Atkins Limited (2021)

highways

england

Client

HE551519 - ATK - EGN
XX - GS - GI - 000001

Safety, Health and Environmental Information

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made in the design hazard log)

Construction

None

Maintenance / Cleaning

None

Use

None

Decommission / Demolition

None

Project Title

M25 Junction 28

Drawing Title

FIGURE 2.2
ENVIRONMENTAL CONSTRAINTS

Drawing Number

Project
HE551519 - ATK - EGN
XX - GS - GI - 000001

Original Size

A3

Scale

1:20,000

Project Ref. No.

Sheet

1 of 1

Rev.

C04

DO NOT SCALE

Millimetres
100
10
0

KEY :

GENERAL

DCO BOUNDARY

ENVIRONMENT

PROPOSED HIGHWAYS AMENITY SEED MIX

PROPOSED SPECIES RICH GRASSLAND

PROPOSED NATIVE WOODLAND PLANTING

GRASSLAND AND SCRUB MIX

PROPOSED AQUATIC PLANTING

RIPARIAN TREE MANAGEMENT (W06)

PROPOSED DRAINAGE DITCH GRASSLAND SEED MIX

PROPOSED RIVERBANK GRASS MIX

BACKWATERS

LAND TO BE RESTORED TO THE REASONABLE SATISFACTION OF LANDOWNER

TEMPORARY WORK AREAS TO BE REPLANTED WITH SPECIES RICH GRASSLAND

INDIVIDUAL TREE PLANTING

RETAINED WOODLAND

GOLF COURSE WORK AREA

PROPOSED ECOLOGICAL PONDS

EXISTING PONDS

PROPOSED OTTER FENCING

VISUAL SCREEN

PROPOSED HIBERNACULA

EXISTING VETERAN TREE TO BE REMOVED

EXISTING VETERAN TREE TO BE RETAINED

STRUCTURES

EXISTING BRIDGE

PROPOSED BRIDGE

PROPOSED RETAINING WALL

PROPOSED CULVERT

PROPOSED REINFORCED EARTH WALL

DRAINAGE

PROPOSED UNLINED DITCH (W07)

RETAINED EXISTING WATERCOURSES

PROPOSED REALIGNMENT OF WATERCOURSES

PROPOSED FILLED WATERCOURSES

PROPOSED FLOODPLAIN COMPENSATION / RECONNECTION (WET MARSHY GRASSLAND)

PROPOSED FILLED DITCHES

UTILITIES

PROPOSED ROUTE OF GAS MAIN

TECHNOLOGY

EXISTING GANTRY (TO BE REMOVED)

EXISTING GANTRY (TO BE RETAINED)

NEW GANTRY / CANTILIVER

HIGHWAYS

PROPOSED EARTHWORK SLOPE

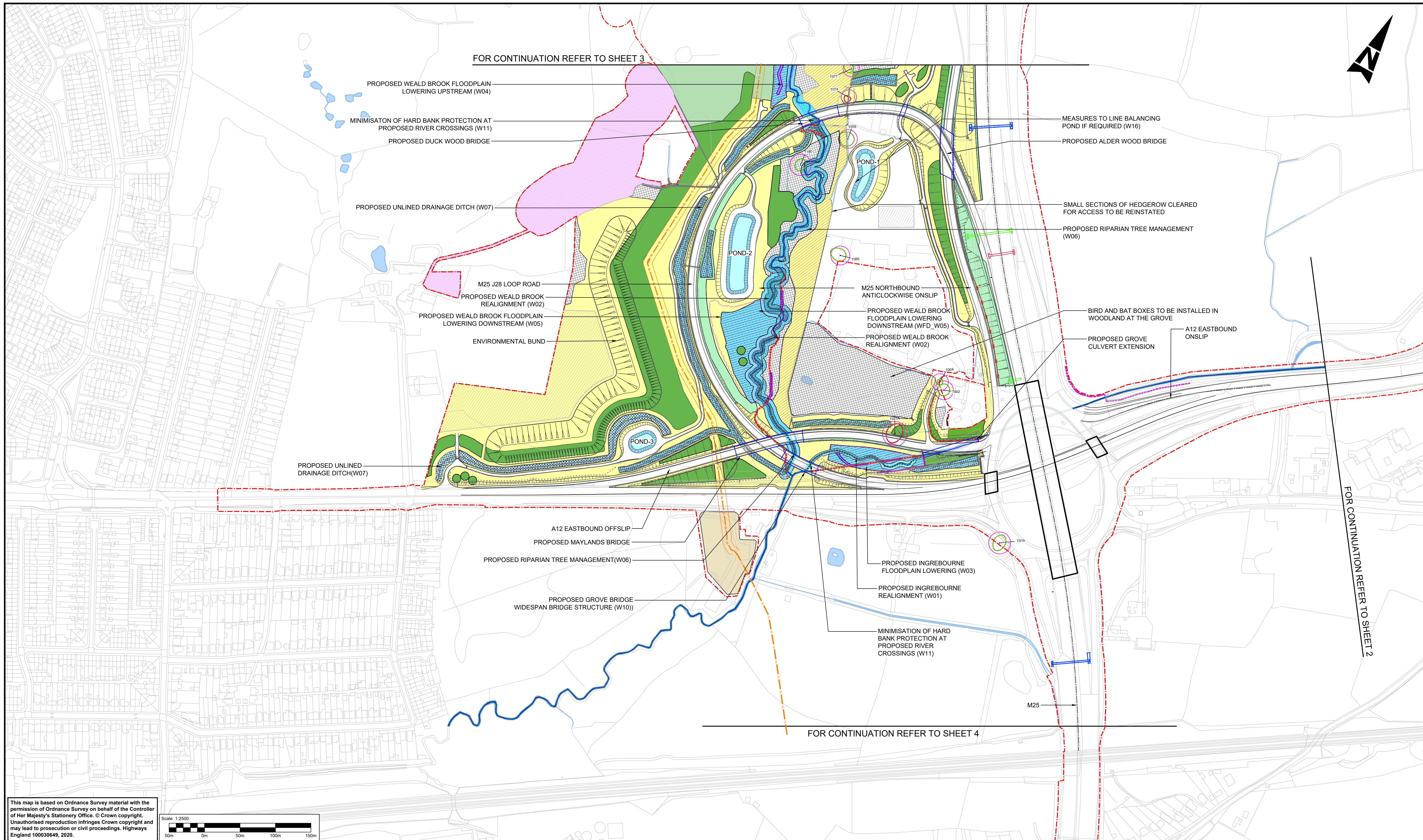
PROPOSED CONSTRUCTION SITE COMPOUND

ENVIRONMENTAL BUND

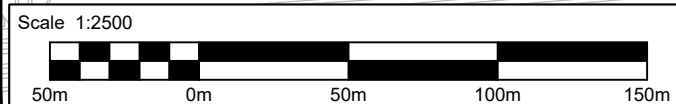
DO NOT SCALE

Millimetres

0 10 100

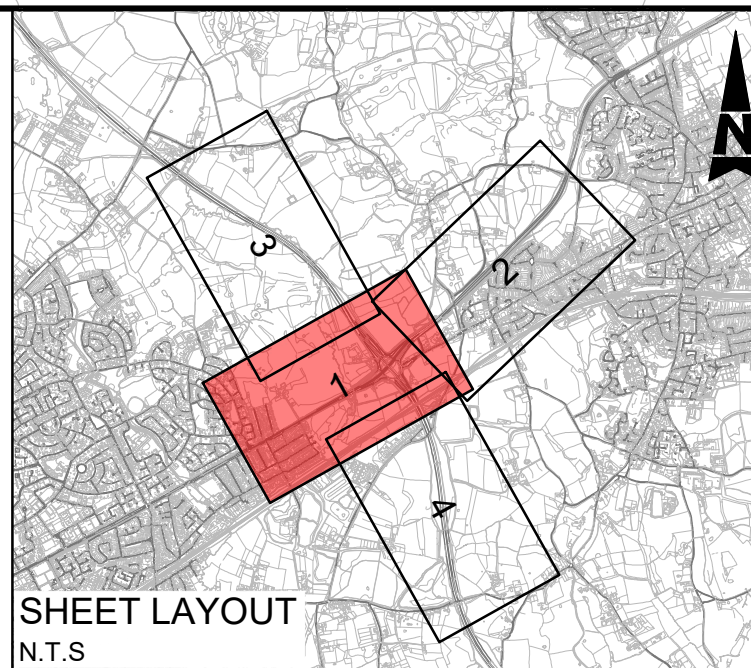


This map is based on Ordnance Survey material with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationery Office. © Crown copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings. Highways England 100030649, 2020.





NOTES

- I. THESE PLANS SHOULD BE READ IN CONJUNCTION WITH:
 - II. CHAPTER 7 (BIODIVERSITY), CHAPTER 8 (ROAD DRAINAGE AND THE WATER ENVIRONMENT) AND CHAPTER 9 (LANDSCAPE AND VISUAL) OF THE ENVIRONMENTAL STATEMENT (APPLICATION DOCUMENT TR010029/APP/6.1) AND ASSOCIATED FIGURES (APPLICATION DOCUMENT TR010029/APP/6.2) AND APPENDICES (APPLICATION DOCUMENT TR010029/APP/6.3).
 - III. THE FLOOD RISK ASSESSMENT (APPLICATION DOCUMENT TR010029/APP/6.6).
 - IV. THE WATER FRAMEWORK DIRECTIVE ASSESSMENT (APPLICATION DOCUMENT TR010029/APP/7).
 - V. THE WORKS PLAN (APPLICATION DOCUMENT TR010029/APP/2.3). FOR THE THREE PONDS SHOWN ON THESE PLANS, POND-1 RELATES TO WORK NO. 21B, POND-2 RELATES TO WORK NO. 20B AND POND-3 RELATED TO WORK NO. 19B.
 - V. THE SCHEME LAYOUT PLANS (APPLICATION DOCUMENT TR010029/APP/2.7)



Description						
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
Description						
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
Description						
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
Description						
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
Description						
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date

Drawing Suitability		Status		Project Title					
DCO EXAMINATION		A4		M25 junction 28 improvement scheme					
 SNC • LAVALIN ATKINS Member of the SNC-Lavalin Group Copyright © SNC Lavalin (2019)		Amlin House Atkins 4th Floor 90-96 Victoria Road Chelmsford Essex CM1 1QU Tel: +44 (0)1245 245245 Fax: +44 (0)1245 345010 www.atkinsglobal.com		Drawing Title FIGURE 2.2 PRELIMINARY ENVIRONMENTAL DESIGN SHEET 1 OF 4					
Client  Working on behalf of				Drawing Number Project: HE551519 - ATK - ELS - XX_ML - DR - LL - 000001 <table><tr><td>Location</td><td>Type</td><td>Role</td><td>Number</td></tr></table>		Location	Type	Role	Number
Location	Type	Role	Number						
Original Size		A1	Scale: 1:2500	Project Ref. No: 1518157	Sheet: 1 of 4 Rev: 2				

DO NOT SCALE

Millimetres

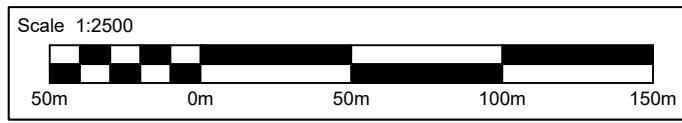
0 10 100

FOR CONTINUATION REFER TO SHEET 1

WIGLEY BUSH LANE
BRIDGE

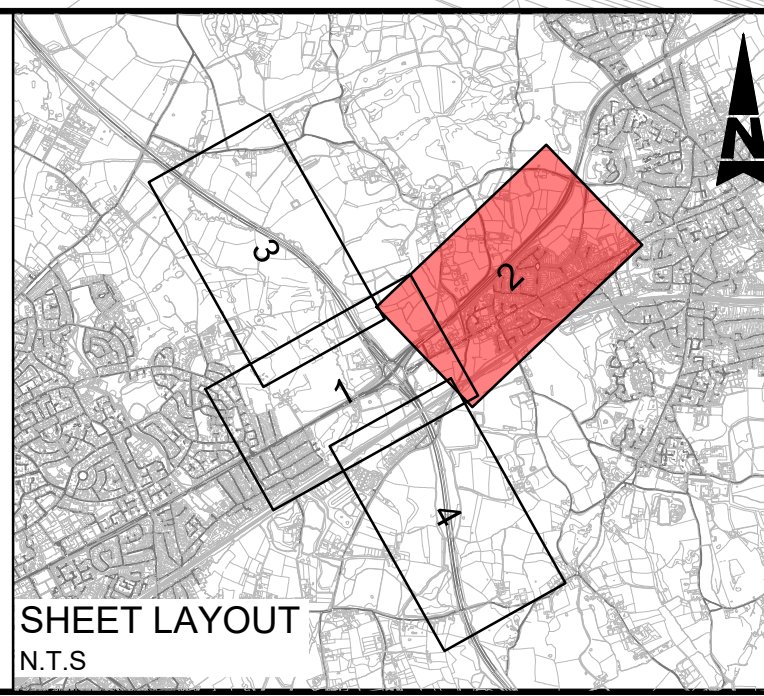
WEALD PARKWAY
BRIDGE

This map is based on Ordnance Survey material with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationery Office. © Crown copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings. Highways England 100030649, 2020.



NOTES

1. THESE PLANS SHOULD BE READ IN CONJUNCTION WITH:
- I. CHAPTER 7 (BIODIVERSITY), CHAPTER 8 (ROAD DRAINAGE AND THE WATER ENVIRONMENT) AND CHAPTER 9 (LANDSCAPE AND VISUAL) OF THE ENVIRONMENTAL STATEMENT (APPLICATION DOCUMENT TR010029/APP/6.1) AND ASSOCIATED FIGURES (APPLICATION DOCUMENT TR010029/APP/6.2) AND APPENDICES (APPLICATION DOCUMENT TR010029/APP/6.3).
 - II. THE FLOOD RISK ASSESSMENT (APPLICATION DOCUMENT TR010029/APP/6.6).
 - III. THE WATER FRAMEWORK DIRECTIVE ASSESSMENT (APPLICATION DOCUMENT TR010029/APP/6.7).

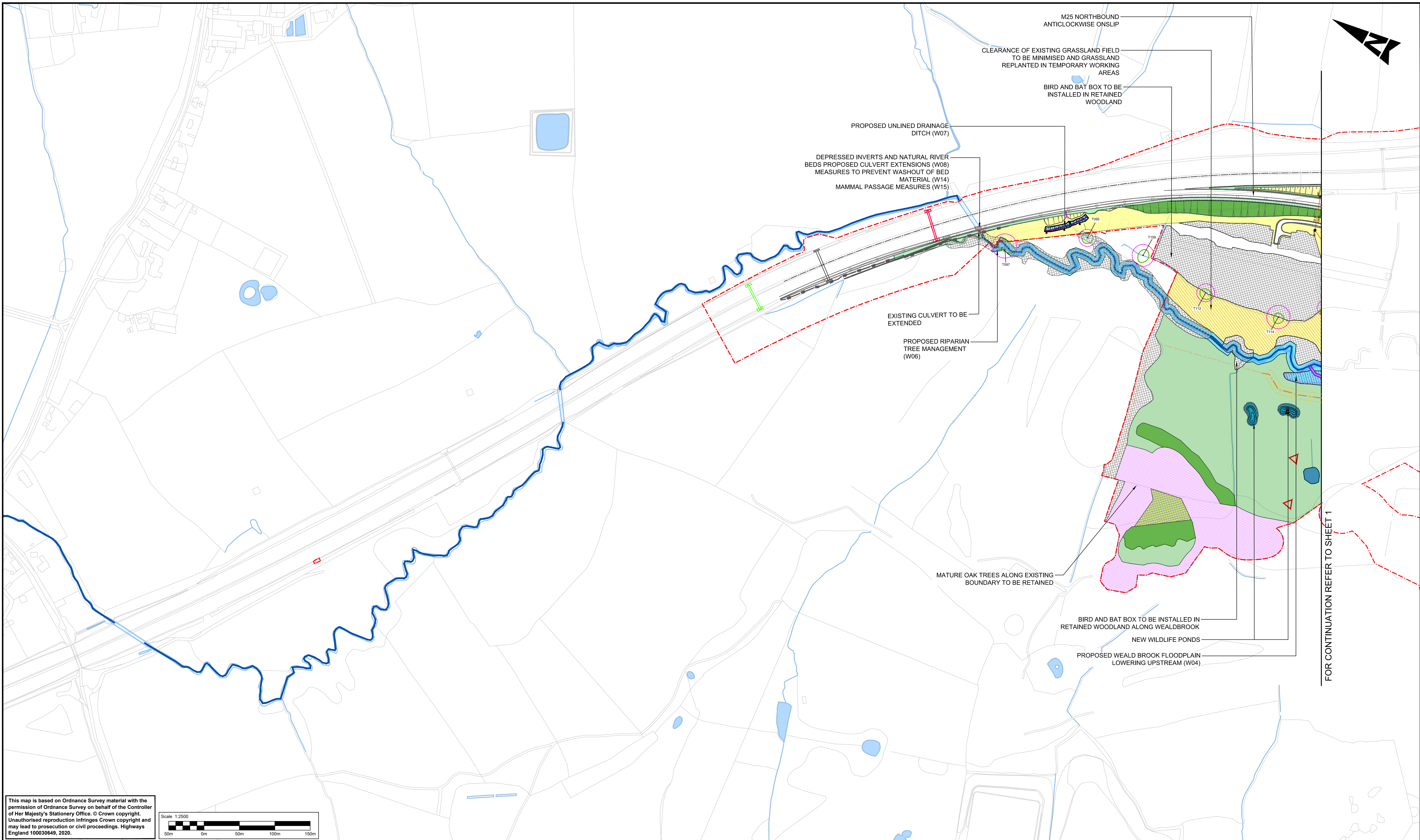


Description						
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
Description						
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
Description						
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
Description						
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
Description						
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date

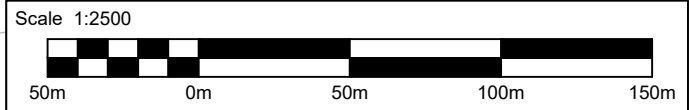
Drawing Suitability	DCO APPLICATION	Status	A4	Project Title	M25 junction 28 improvement scheme
 Member of the SNC-Lavalin Group Copyright © SNC Lavalin (2019)		Amlin House Atkins 4th Floor 90-96 Victoria Road Chelmsford Essex CM1 1QU Tel: +44 (0)1245 245245 Fax: +44 (0)1245 345010 www.atkinglobal.com		Drawing Title FIGURE 2.2 PRELIMINARY ENVIRONMENTAL DESIGN SHEET 2 OF 4	
Client 		Drawing Number Project HE551519 - ATK - ELS - XX_ML - DR - LL - 000002	Originator - ATK -	Volume - ELS -	
Original Size: A1	Scale: 1:2500	Project Ref. No: 5158157	Sheet: 1 of 4	Rev: 0	

DO NOT SCALE

100
0 10
Millimetres

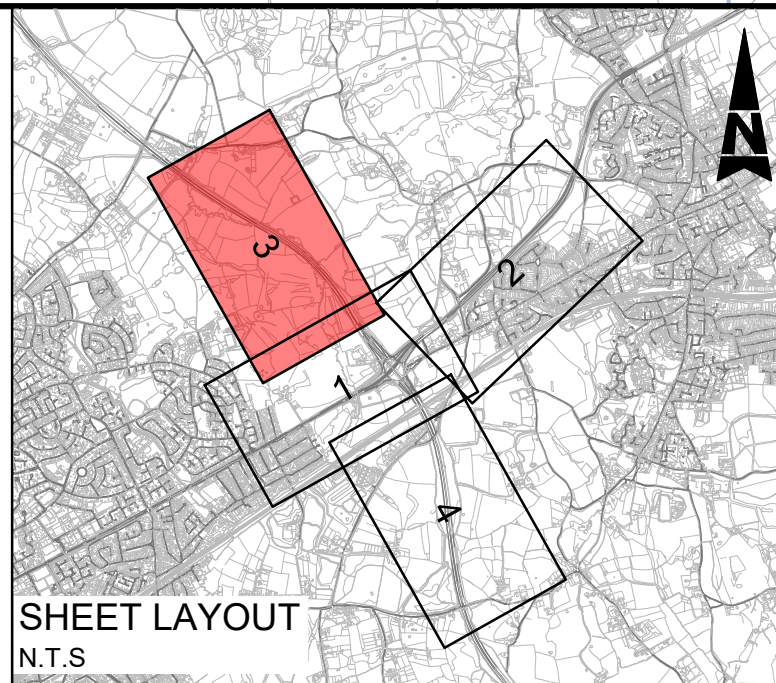


This map is based on Ordnance Survey material with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationary Office. © Crown copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings. Highways England 100030649, 2020.



NOTES

1. THESE PLANS SHOULD BE READ IN CONJUNCTION WITH:
 - I. CHAPTER 7 (BIODIVERSITY), CHAPTER 8 (ROAD DRAINAGE AND THE WATER ENVIRONMENT) AND CHAPTER 9 (LANDSCAPE AND VISUAL) OF THE ENVIRONMENTAL STATEMENT (APPLICATION DOCUMENT TR010029/APP/6.1) AND ASSOCIATED FIGURES (APPLICATION DOCUMENT TR010029/APP/6.2) AND APPENDICES (APPLICATION DOCUMENT TR010029/APP/6.3).
 - II. THE FLOOD RISK ASSESSMENT (APPLICATION DOCUMENT TR010029/APP/6.6).
 - III. THE WATER FRAMEWORK DIRECTIVE ASSESSMENT (APPLICATION DOCUMENT TR010029/APP/6.7).
 - IV. THE WORKS PLANS (APPLICATION DOCUMENT TR010029/APP/2.3). FOR THE THREE PONDS SHOWN ON THESE PLANS, POND-1 RELATES TO WORK NO. 21B, POND-2 RELATES TO WORK NO. 20B AND POND-3 RELATED TO WORK NO. 19B.
 - V. THE SCHEME LAYOUT PLANS (APPLICATION DOCUMENT TR010029/APP/2.7)



Description						
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
Description						
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
Description						
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
Description						
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
Description						
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
Description						

Drawing Suitability		DCO EXAMINATION		Status	A4	Project Title		M25 junction 28 improvement scheme		
				Amlin House Atkins 4th Floor 90-96 Victoria Road Chelmsford Essex CM1 1QU Tel: +44 (0)1245 245245 Fax: +44 (0)1245 345010 www.atkinsglobal.com		Drawing Title		FIGURE 2.2 PRELIMINARY ENVIRONMENTAL DESIGN SHEET 3 OF 4		
Client		Working on behalf of		Project		Originator		Volume		
				HE551519		- ATK		- ELS		
				XX_ML		- DR - LL		- 000003		
Location		Type		Role		Number				
Original Size: A1		Scale: 1:2500		Project Ref. No: 5158157		Sheet: 3 of 4		Rev: 2		

DO NOT SCALE

Millimetres

0

10

100

FOR CONTINUATION REFER TO SHEET 1

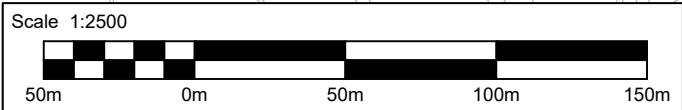
POPLARS RAILWAY
BRIDGE

NAGS HEAD LANE BRIDGE

BOYLES COURT BRIDGE

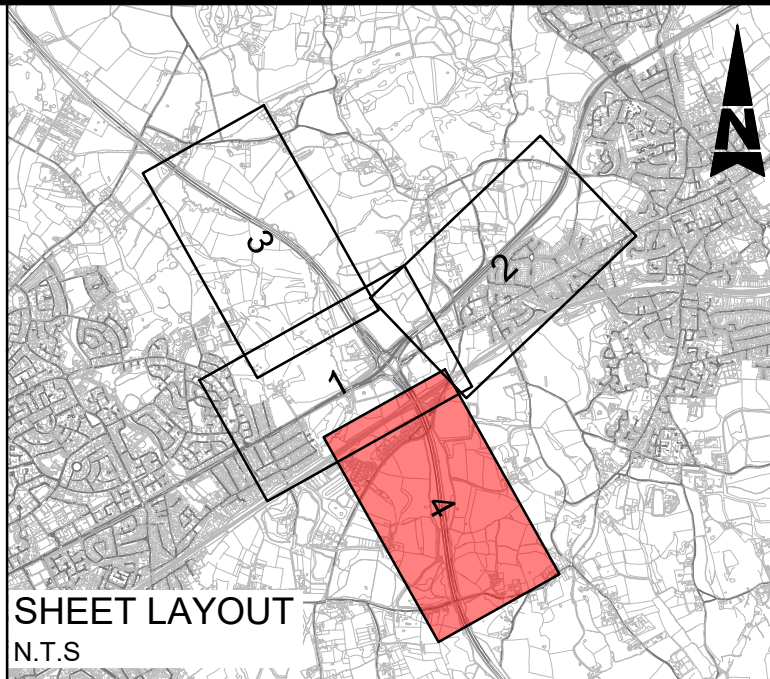
WARLEY ROAD BRIDGE

This map is based on Ordnance Survey material with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationery Office. © Crown copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings. Highways England 100030649, 2020.





NOTES

- THESE PLANS SHOULD BE READ IN CONJUNCTION WITH:
 - CHAPTER 7 (BIODIVERSITY), CHAPTER 8 (ROAD DRAINAGE AND THE WATER ENVIRONMENT) AND CHAPTER 9 (LANDSCAPE AND VISUAL) OF THE ENVIRONMENTAL STATEMENT (APPLICATION DOCUMENT TR010029/APP/6.1) AND ASSOCIATED FIGURES (APPLICATION DOCUMENT TR010029/APP/6.2) AND APPENDICES (APPLICATION DOCUMENT TR010029/APP/6.3).
 - THE FLOOD RISK ASSESSMENT (APPLICATION DOCUMENT TR010029/APP/6.6).
 - THE WATER FRAMEWORK DIRECTIVE ASSESSMENT (APPLICATION DOCUMENT TR010029/APP/6.7).



Description						
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
Description						
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
Description						
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
Description						
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
Description						
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
Description						
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
Description						

Drawing Suitability		DCO APPLICATION		Status		A4		Project Title				M25 junction 28 improvement scheme			
 Member of the SNC-Lavalin Group Copyright © SNC Lavalin (2019)		Amlin House Atkins 4th Floor 90-96 Victoria Road Chelmsford Essex CM1 1QU Tel: +44 (0)1245 245245 Fax: +44 (0)1245 345010 www.atkinsglobal.com		Drawing Title FIGURE 2.2 PRELIMINARY ENVIRONMENTAL DESIGN SHEET 4 OF 4											
Client		Working on behalf of		Drawing Number		Project		Originator		Volume					
				HE551519		- ATK		- ELS		-					
				XX_ML		- DR - LL		- 000004							
Location				Type		Role		Number							
Original Size:		A1		Scale:		1:2500		Project Ref. No:		5158157		Sheet: 4 of 4			
												Rev: 0			

© Crown copyright (2021).

You may re-use this information (not including logos) free of charge in any format or medium, under the terms of the Open Government Licence. To view this licence:

visit www.nationalarchives.gov.uk/doc/open-government-licence/
write to the Information Policy Team, **The National Archives, Kew, London TW9 4DU**,
or email psi@nationalarchives.gsi.gov.uk.

Printed on paper from well-managed forests and other controlled sources.

Registered office Bridge House, 1 Walnut Tree Close, Guildford GU1 4LZ
Highways England Company Limited registered in England and Wales number 09346363

