

M25 junction 28 improvement scheme TR010029

6.2 Environmental Statement Chapter 7: Biodiversity 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 7: BIODIVERSITY 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

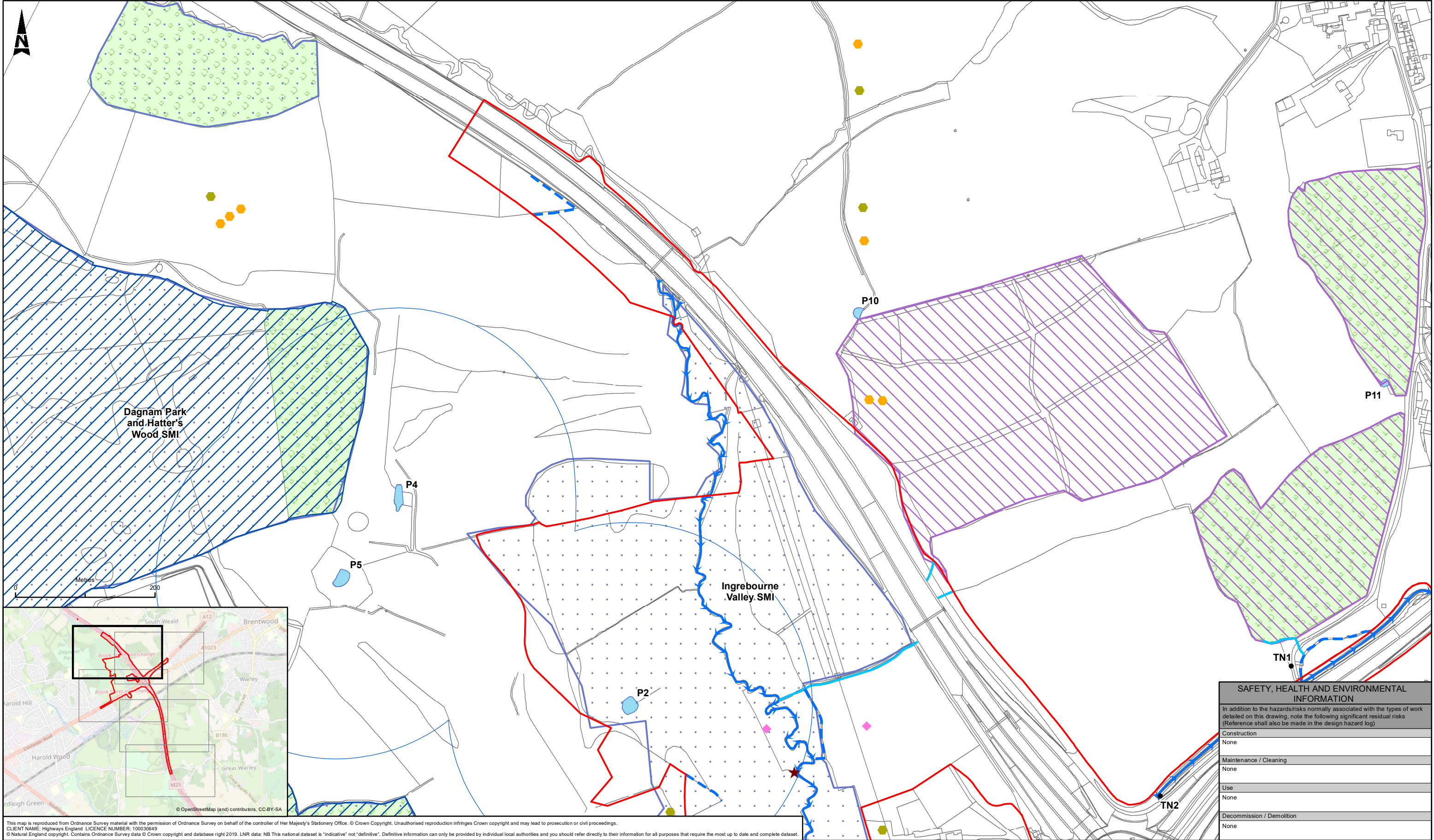
Version	Date	Status of Version
1	May 2020	Application issue

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2. Schedule of figures included in this application document

Document title	Document number	Revision
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Figure 7.1 Ecological Constraints Sheet 2 of 5	TR010029/APP/6.2	0
Figure 7.1 Ecological Constraints Sheet 3 of 5	TR010029/APP/6.2	0
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LEGEND

- Target Notes
- DCO Boundary
- Ponds
- Running water
- Wet ditch
- Dry ditch

Desk Study - Designated Sites And Ancient Woodland

- Sites of Importance for Nature Conservation (SINCs, name for locally designated site in Greater London)
- Local Wildlife Sites (LoWS, name of locally designated sites in Essex)
- Ancient Woodland
- Local Nature Reserves (LNR)

Desk Study - Protected Species Records

- ▲ Notable Bat Species
- ▲ Grass Snake
- ▲ Great Crested Newt
- ▲ Hedgehog
- ▲ Slow-worm
- London BAP bird record
- Schedule 1 bird record

Field Survey

- Building With Bat Roost Potential
- 250m Great Crested Newt Sensitive Area
- Kingfisher identified along Weald Brook
- ◆ Common Lizard
- Otter Spraint
- ★ Bat Roost - Tree

TN1 Penny Royal
TN2 Himalayan Balsam
Field Survey - Invasive Species

- ★ Himalayan Balsam
- ▲ Signal crayfish recorded

Note: For locations of non-native goldenrod, see Phase 1 habitat drawing (Figure 7.2).

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

Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
PUBLISHED							

Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
PUBLISHED							

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PUBLISHED							

Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
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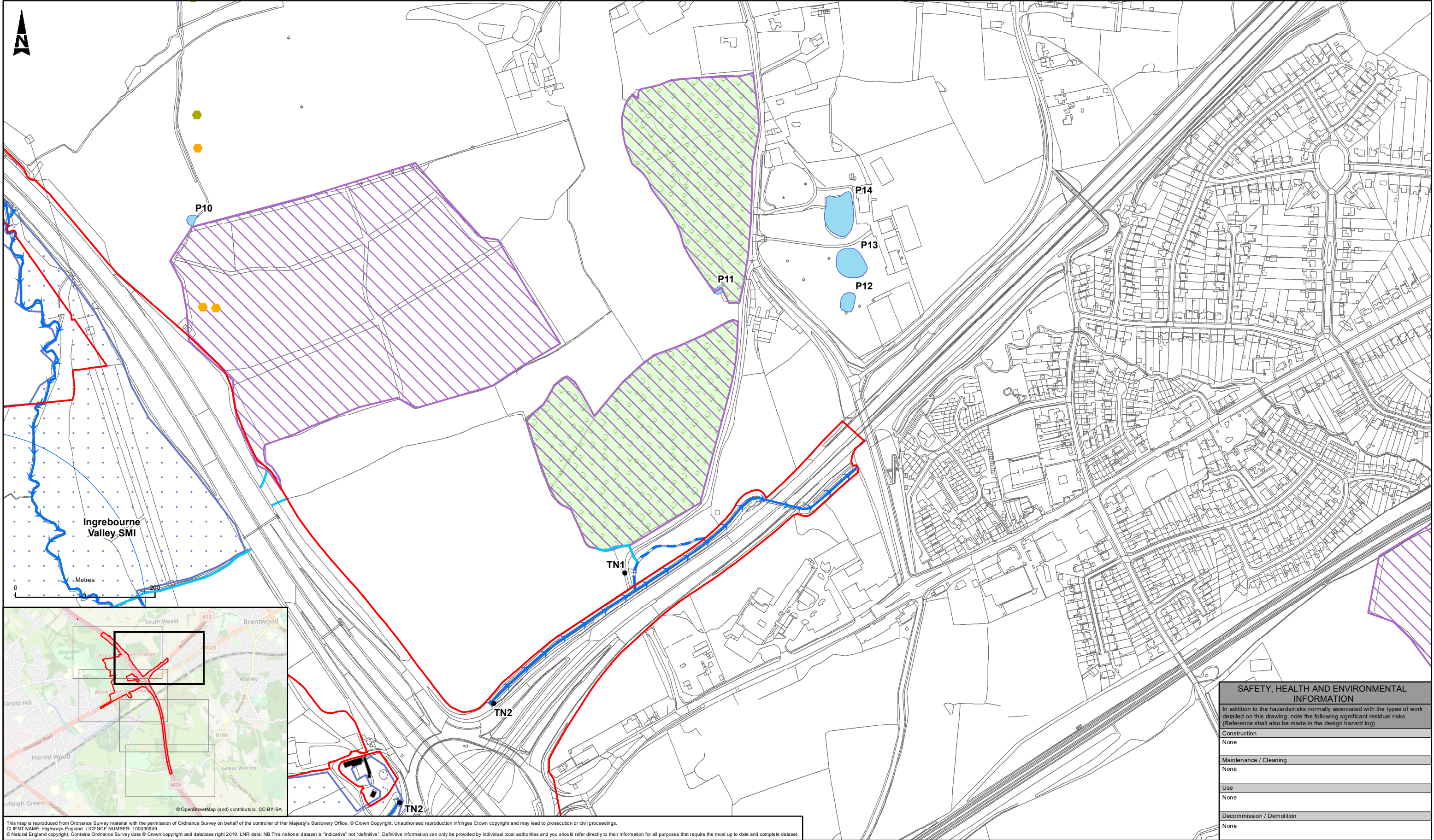
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Project Title	M25 Junction 28
Drawing Title	FIGURE 7.1 ECOLOGICAL CONSTRAINTS SHEET 1 OF 5
Drawing Number	HE551519 - ATK - EBD XX - GS - GI - 000003
Original Size: A3	Scale: 1:5,000
Project Ref. No: ---	Sheet: 1 of 5
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TN1 Penny Royal
TN2 Himalayan Balsam
Field Survey - Invasive Species

- ★ Himalayan Balsam
- ▲ Signal crayfish recorded

Note: For locations of non-native goldenrod, see Phase 1 habitat drawing (Figure 7.2).

Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
PUBLISHED	A1	C01	SD	JB	EM	PG	18/05/20

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Project		Originator		Volume	
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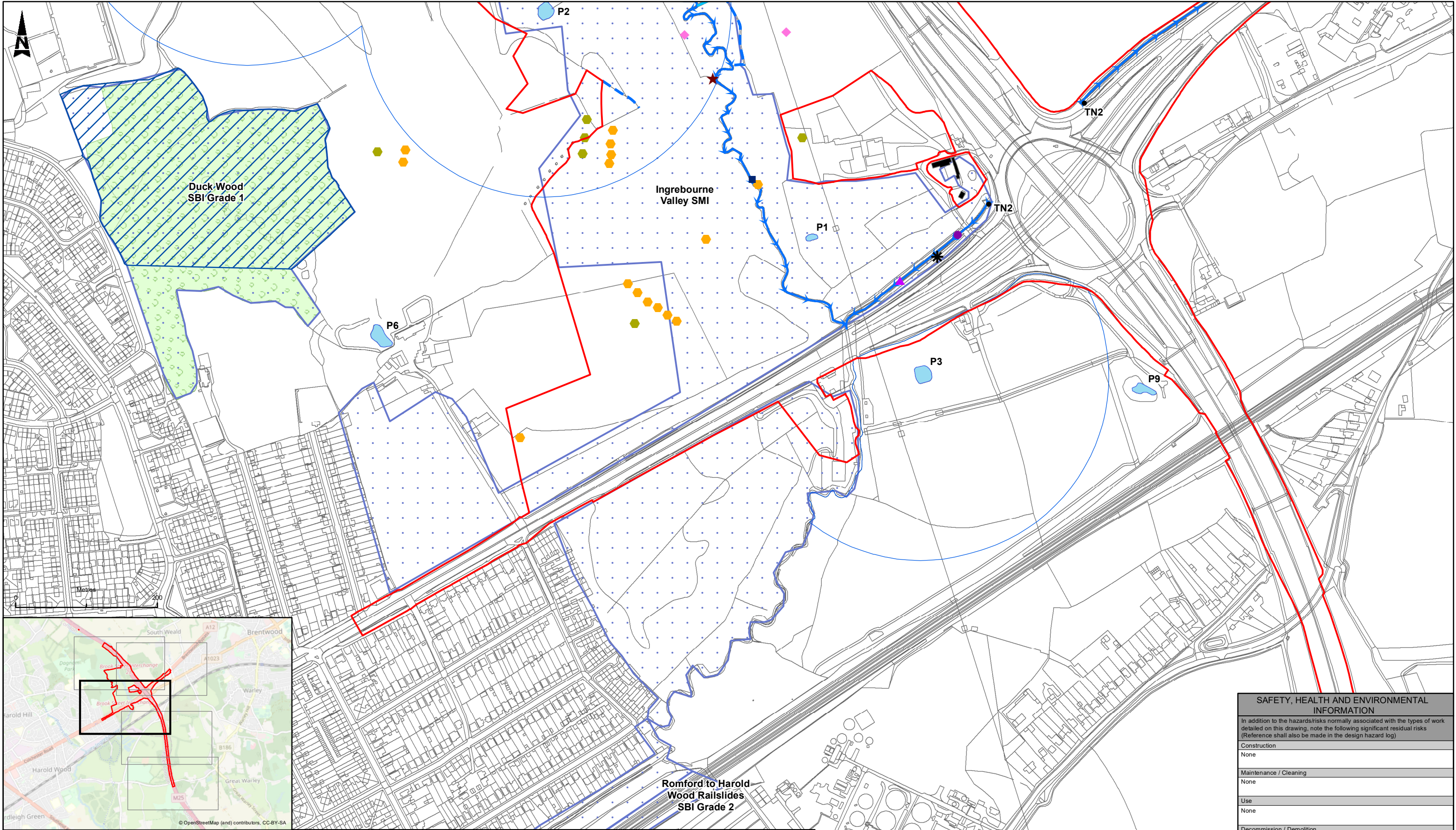
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Project Title M25 Junction 28
Drawing Title FIGURE 7.1
ECOLOGICAL CONSTRAINTS
SHEET 2 OF 5
Drawing Number



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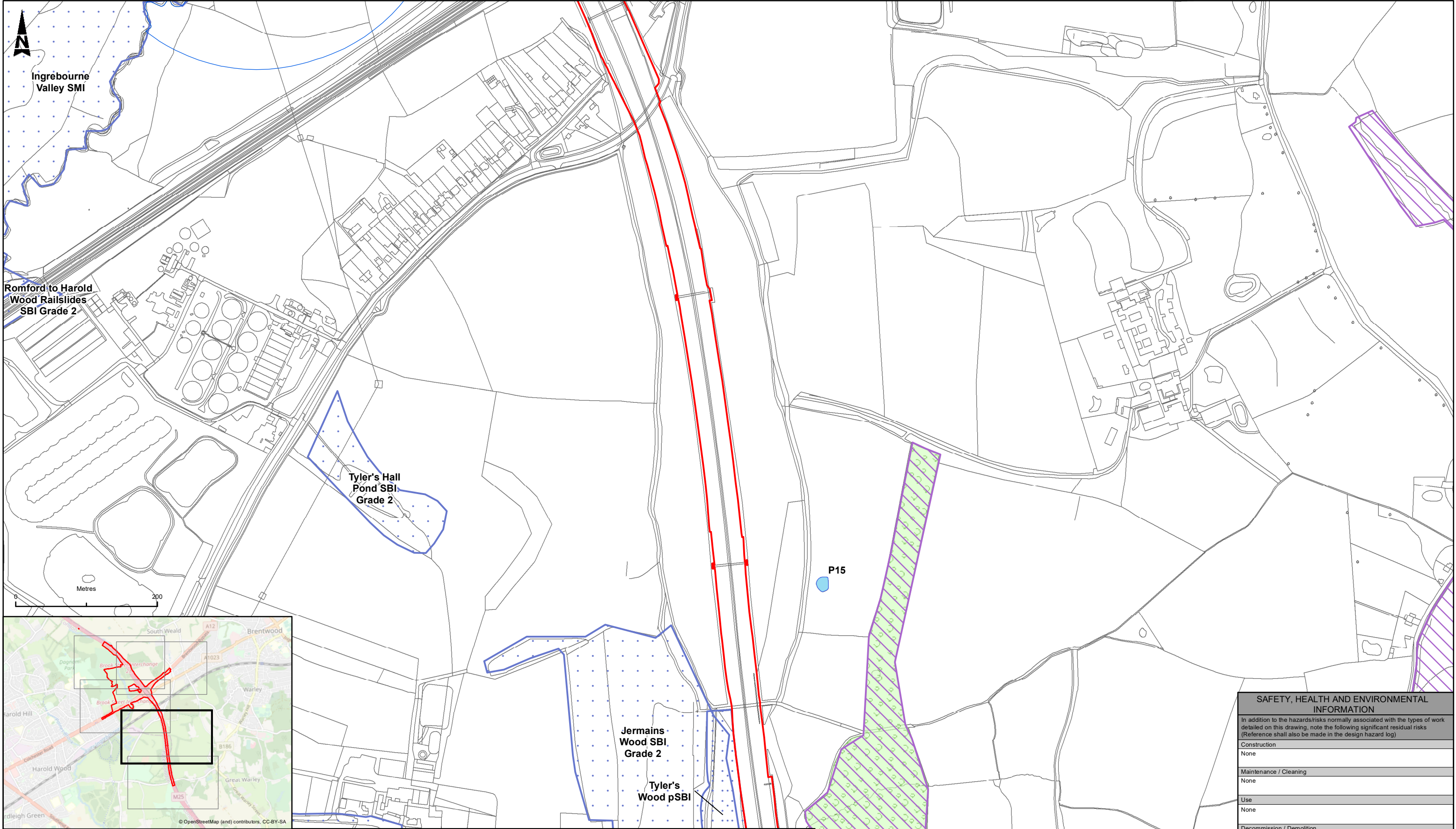
TN1 Penny Royal
TN2 Himalayan Balsam
Field Survey - Invasive Species

- ★ Himalayan Balsam
- ▲ Signal crayfish recorded

Note: For locations of non-native goldenrod, see Phase 1 habitat drawing (Figure 7.2).

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
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Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

Drawing Suitability		Status	Project Title
PUBLISHED		A1	M25 Junction 28
Description		Drawing Title	FIGURE 7.1 ECOLOGICAL CONSTRAINTS SHEET 3 OF 5
Description		Drawing Number	Project Originator Volume HE551519 - ATK - EBD XX - GS - GI - 000005
Description		Client	Original Size: Scale Project Ref. No: Sheet: Number Rev: A3 1:5,000 --- 3 of 5 C01
Description		highways england	



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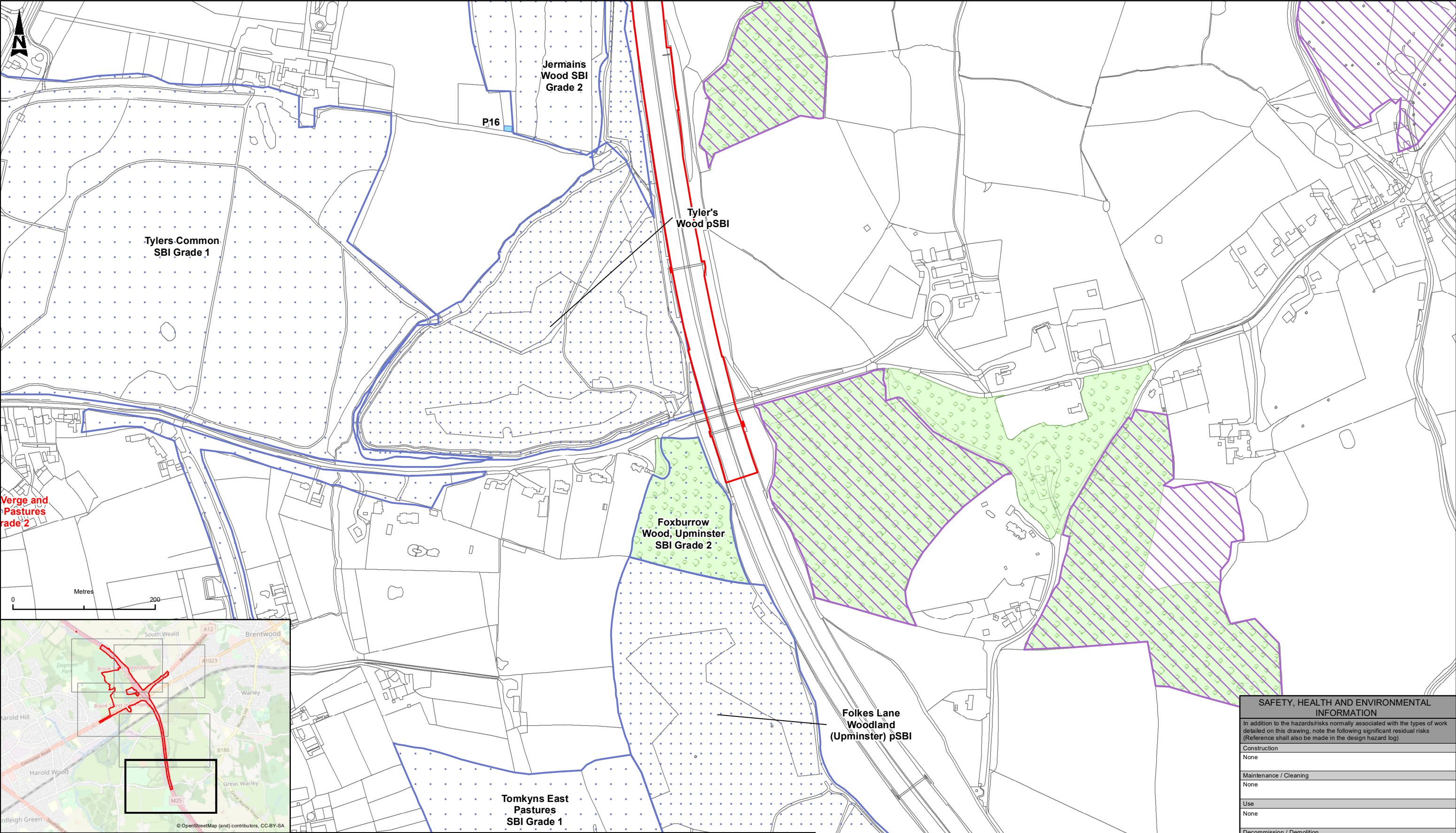
TN1 Penny Royal
TN2 Himalayan Balsam
Field Survey - Invasive Species

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Note: For locations of non-native goldenrod, see Phase 1 habitat drawing (Figure 7.2).

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Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

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Status							PUBLISHED							A1		M25 Junction 28			
Revision																			
Drawn																			
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Status							Epsom Gateway Ashley Avenue Epsom Surrey KT18 5AL Tel: +44 (0) 1372 726140 Fax: +44 (0) 1372 740055 www.atkinsglobal.com							FIGURE 7.1 ECOLOGICAL CONSTRAINTS SHEET 4 OF 5					
Revision																			
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Issue Date														Project Originator Volume HE551519 - ATK - EBD XX - GS - GI - 000006					
Description																			
PUBLISHED														Location Type Role Number					
Status							Original Size: A3							Scale 1:5,000					
Revision																			
C01							Project Ref. No: ---							Sheet: 4 of 5					
Drawn																			
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- ▲ Slow-worm
- ▲ London BAP bird record
- ▲ Schedule 1 bird record

Field Survey

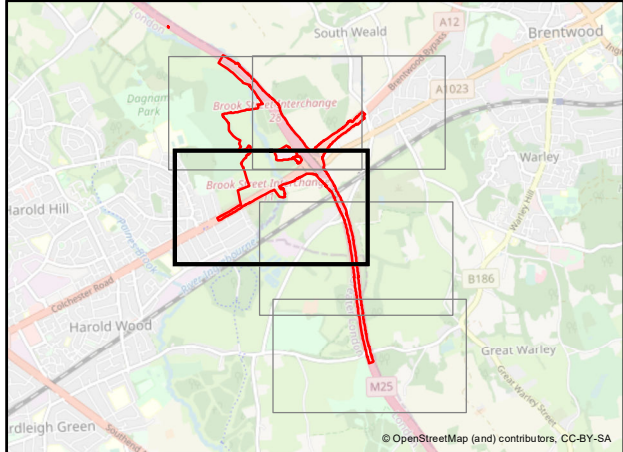
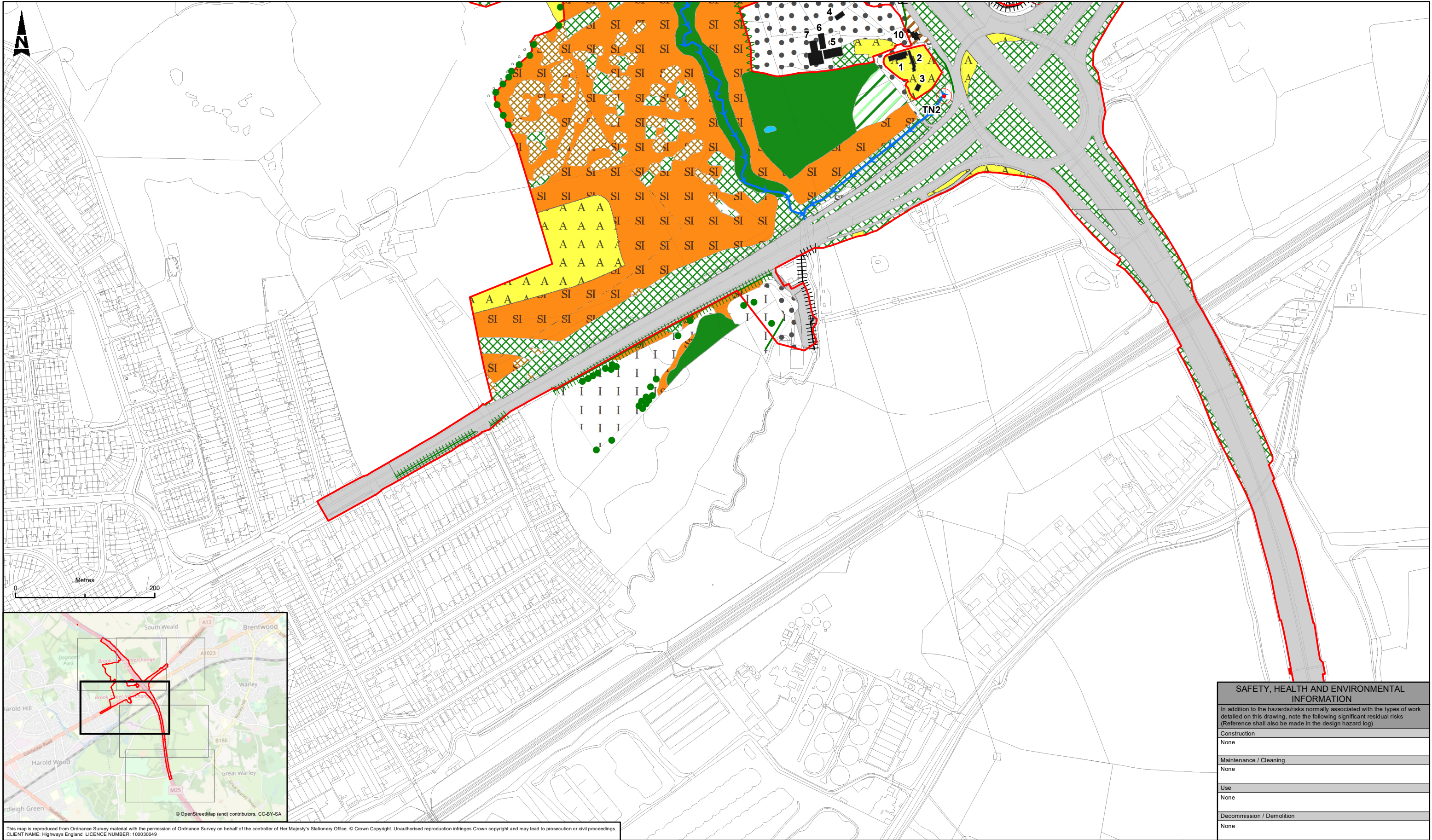
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TN1 Penny Royal
TN2 Himalayan Balsam
Field Survey - Invasive Species

- ★ Himalayan Balsam
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Note: For locations of non-native goldenrod, see Phase 1 habitat drawing (Figure 7.2).

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Status Revision Drawn Checked Reviewed Authorised Issue Date		PUBLISHED		A1		M25 Junction 28	
Description		ATKINS		Epsom Gateway Ashley Avenue Epsom Surrey KT18 5AL		Drawing Title	
Status Revision Drawn Checked Reviewed Authorised Issue Date		Member of the SNC-Lavalin Group		Tel: +44 (0) 1372 726140 Fax: +44 (0) 1372 740055		FIGURE 7.1 ECOLOGICAL CONSTRAINTS SHEET 5 OF 5	
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Status Revision Drawn Checked Reviewed Authorised Issue Date		Client		highways england		Project Originator Volume	
Description PUBLISHED		Project Ref. No.		HE551519 - ATK - EBD		XX - GS - GI - 000007	
Status A1		Revision C01		Drawn SD		Checked JB	
Reviewed EM		Authorised PG		Issue Date 18/05/20		Original Size: A3	
Scale 1:5,000		Type		Role		Number	
Rev: C01		Sheet 5 of 5		Rev: C01			



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LEGEND

DCO Boundary

Scattered scrub

Scattered trees

Target Notes

TN1 Penny Royal

TN2 Himalayan Balsam

Phase 1 Habitats

Broad-leaved Semi-natural Woodland

Broad-leaved Plantation Woodland

Mixed Plantation Woodland

Dense Scrub

Scattered Scrub

Broad-leaved Scattered Trees

Semi-improved Neutral Grassland

Poor Semi-improved Grassland

Improved Grassland

Tall Ruderal Herb and Fern

Standing Water

Arable Cultivated Land

Amenity Grassland

Introduced Shrub - Non-Native Invasive Goldenrod

Building

Bare Ground

Hardstanding

Sand Bunkers

Species-rich defunct hedge

Species poor hedge and trees

Species-poor intact hedge

Fence

Running water

Wet ditch

Dry ditch

Grass track

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

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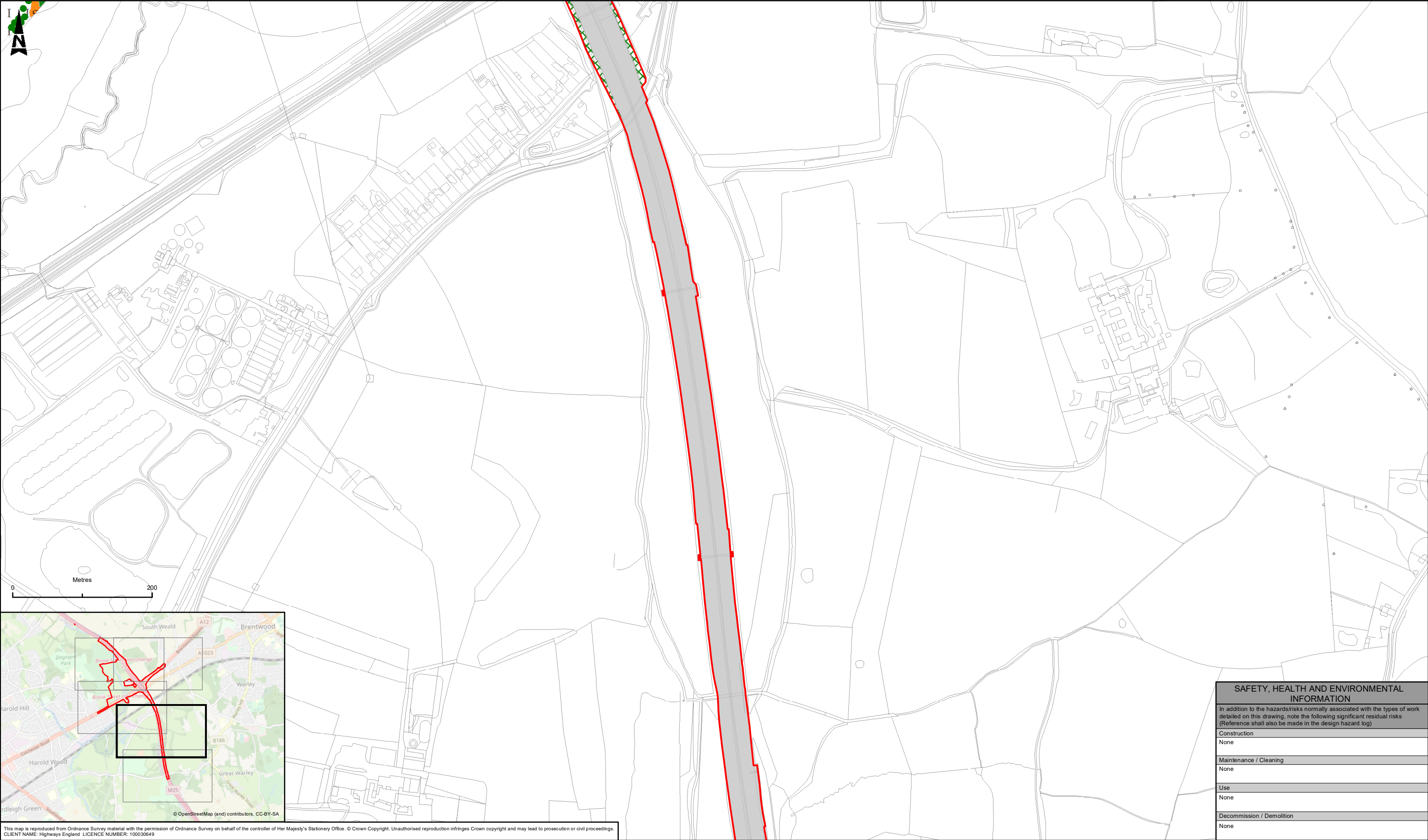
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Drawing Title

FIGURE 7.2
PHASE 1 HABITAT SURVEY
SHEET 3 OF 5

Drawing Number

Project HE551519 - ATK - EBD
Location XX - GS - GI - 000010
Original Size: A3 Scale 1:5,000 Project Ref. No: --- Sheet 3 of 5 Rev: C01



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LEGEND

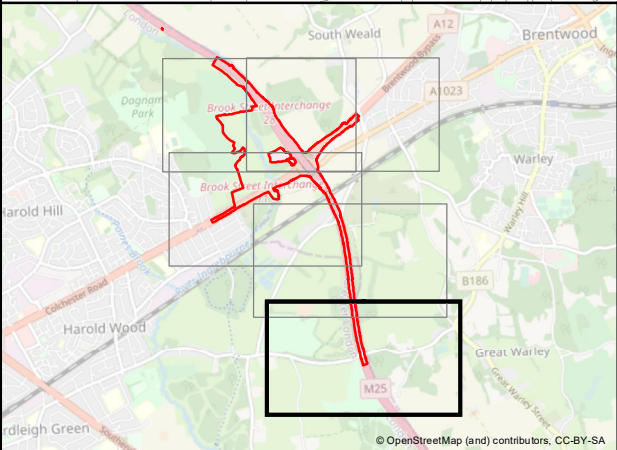
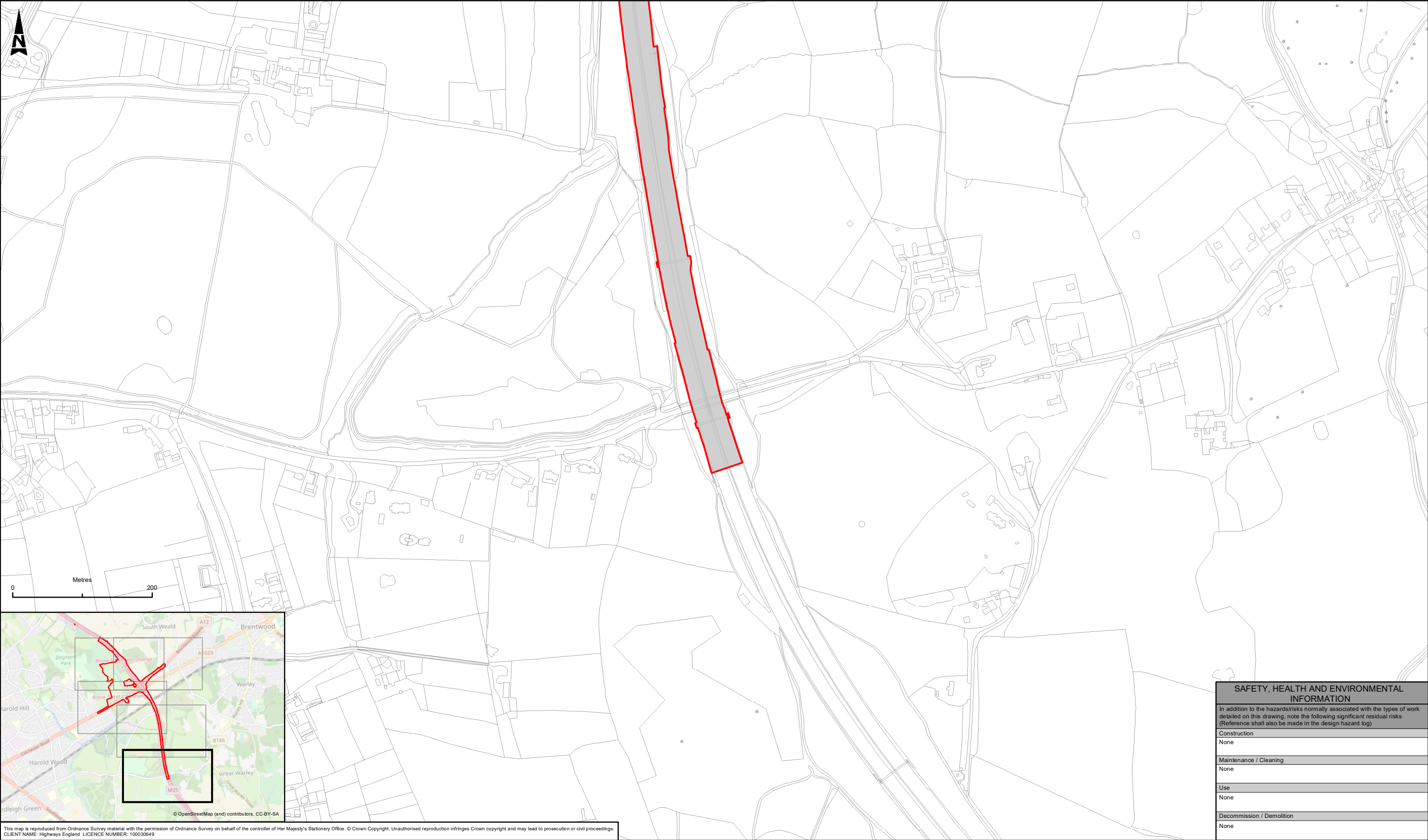
DCO Boundary	Phase 1 Habitats	Broad-leaved Scattered Trees	Amenity Grassland	Species-rich defunct hedge
Scattered scrub	Broad-leaved Semi-natural Woodland	Semi-improved Neutral Grassland	Introduced Shrub - Non-Native Invasive Goldenrod	Species poor hedge and trees
Scattered trees	Broad-leaved Plantation Woodland	Poor Semi-improved Grassland	Building	Species-poor intact hedge
Target Notes	Mixed Plantation Woodland	Improved Grassland	Bare Ground	Fence
TN1 Penny Royal	Dense Scrub	Tall Ruderal Herb and Fern	Hardstanding	Running water
TN2 Himalayan Balsam	Scattered Scrub	Standing Water	Sand Bunkers	Wet ditch
		Arable Cultivated Land		Dry ditch
				Grass track

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

Description		Drawing Suitability	Status	Project Title
Status		PUBLISHED	A1	M25 Junction 28
Description		ATKINS Member of the SNC-Lavalin Group		Drawing Title
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Description				Originator
Status		HE551519 - ATK - EBD		Volume
Description		XX - GS - GI - 000011		Location
Status		Original Size: A3		Type
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Status		Project Ref. No: ---		Number
Description		Sheet: 4 of 5		Rev: C01



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DCO Boundary

Scattered scrub

Scattered trees

Target Notes

TN1 Penny Royal

TN2 Himalayan Balsam

Phase 1 Habitats

Broad-leaved Semi-natural Woodland

Broad-leaved Plantation Woodland

Mixed Plantation Woodland

Dense Scrub

Scattered Scrub

Broad-leaved Scattered Trees

Semi-improved Neutral Grassland

Poor Semi-improved Grassland

Improved Grassland

Tall Ruderal Herb and Fern

Standing Water

Arable Cultivated Land

Amenity Grassland

Introduced Shrub - Non-Native Invasive Goldenrod

Building

Bare Ground

Hardstanding

Sand Bunkers

Species-rich defunct hedge

Species poor hedge and trees

Species-poor intact hedge

Fence

Running water

Wet ditch

Dry ditch

Grass track

Description

StatusRevisionDrawnCheckedReviewedAuthorisedIssue Date

Description

StatusRevisionDrawnCheckedReviewedAuthorisedIssue Date

Description

StatusRevisionDrawnCheckedReviewedAuthorisedIssue Date

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StatusRevisionDrawnCheckedReviewedAuthorisedIssue Date

Description

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Drawing Suitability

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Client

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Status

A1

Project Title

M25 Junction 28

Drawing Title

FIGURE 7.2
PHASE 1 HABITAT SURVEY
SHEET 5 OF 5

Drawing Number

ProjectHE551519 - ATK - EBD
XX - GS - GI - 000012

Originator

Volume

Original Size: A3

Scale

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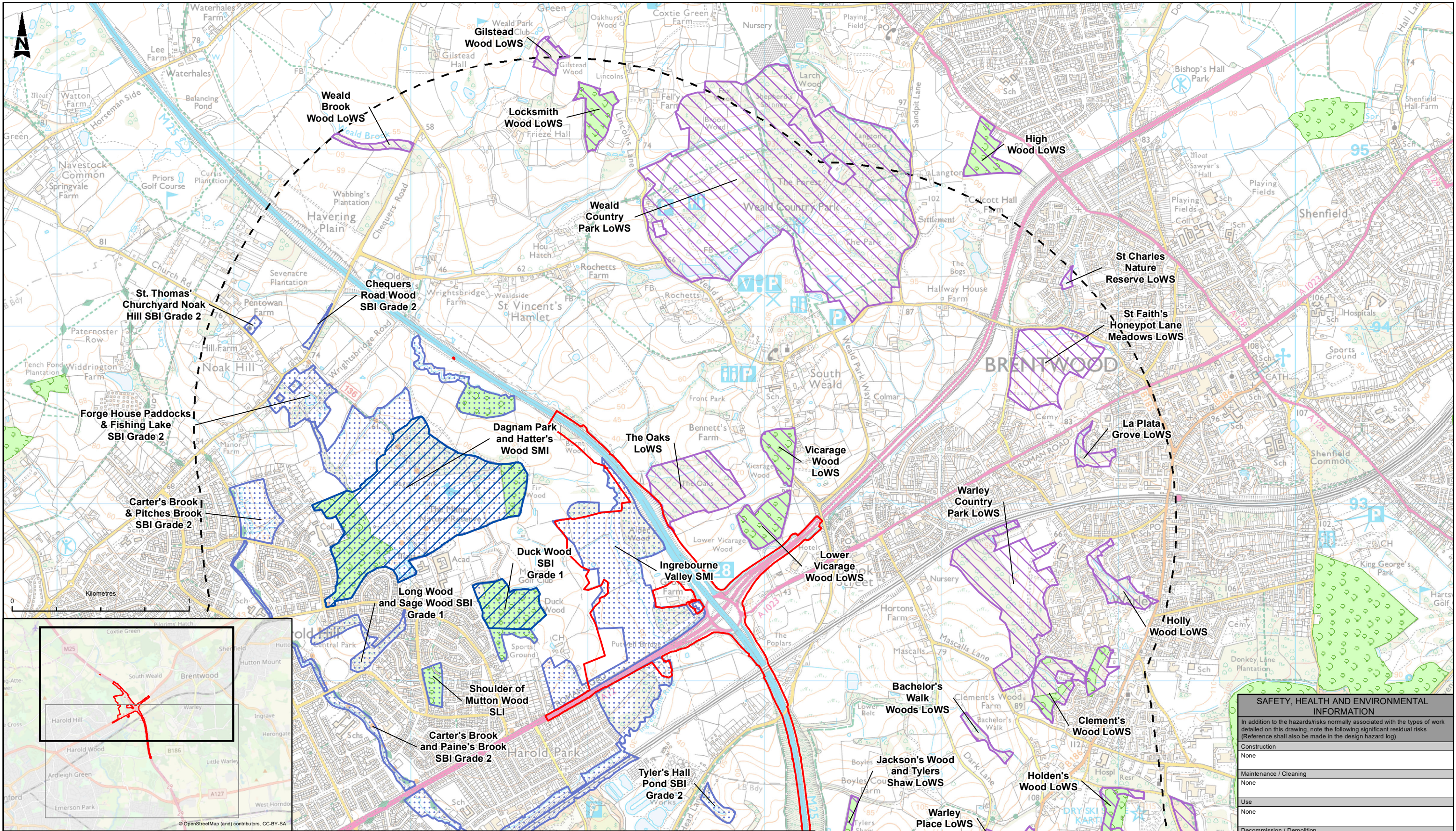
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Sheet

5 of 5

Rev:

C01



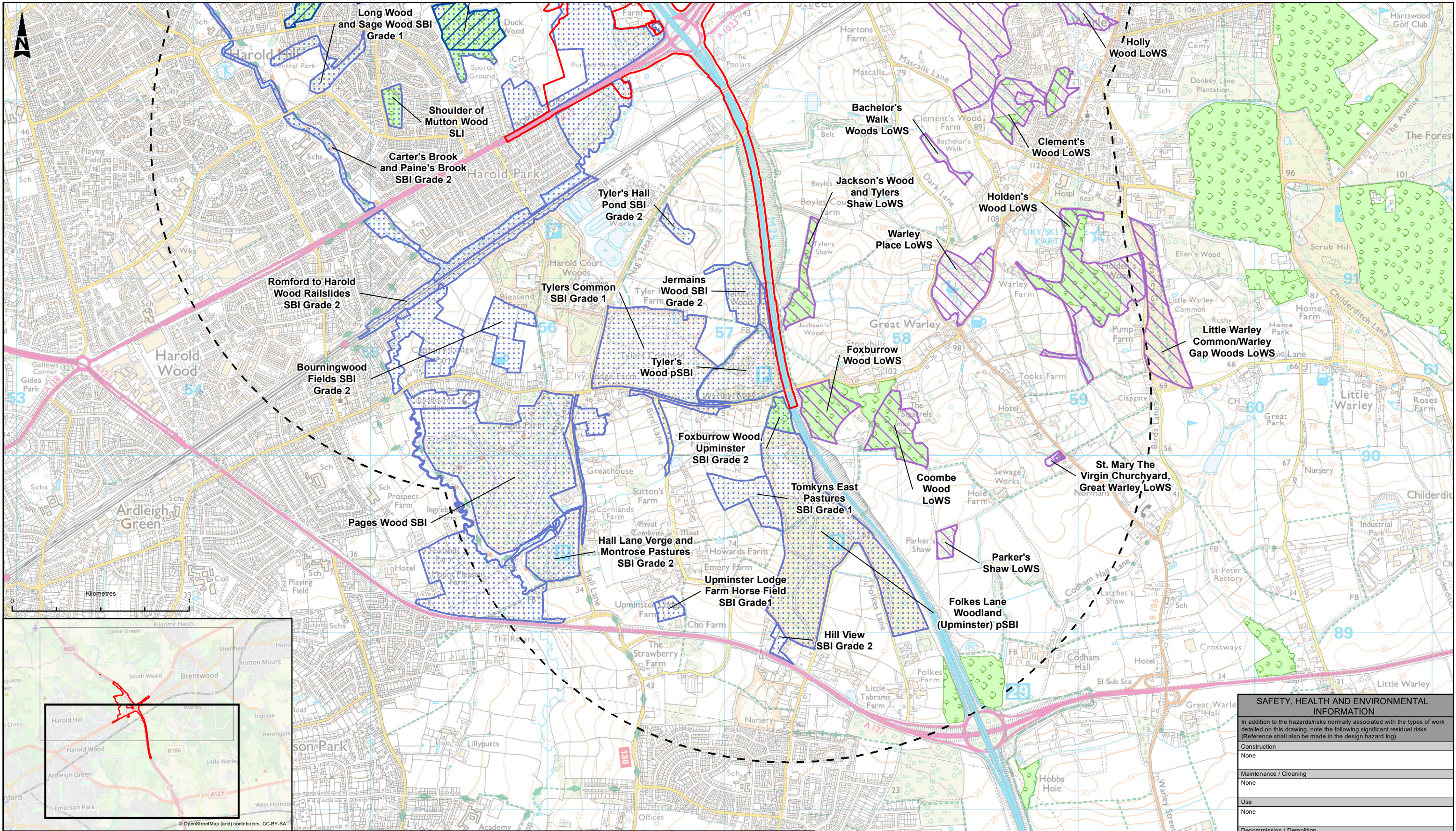
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LEGEND

- DCO Boundary
- 2km Study Area
- Ancient Woodland
- Local Nature Reserves (LNR)
- Local Wildlife Sites (LoWS, name of locally designated sites in Essex)

Sites of Importance for Nature Conservation (SINCs, name of locally designated sites in Greater London)
Classified into four categories:
Sites of Metropolitan Importance (SMI);
Sites of Borough Importance Grade 1 (SBI Grade 1);
Sites of Borough Importance Grade 2 (SBI Grade 2); and
Sites of Local Importance (SLI).
Additional sites identified in the Havering Local Plan 2016-2031 Proposals Map Changes Booklet July 2017 are identified as Proposed Sites of Borough Importance (pSBI).

Description		Drawing Suitability		Status		Project Title	
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	M25 Junction 28
Description		ATKINS		A1		Drawing Title	
Status		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		FIGURE 7.3 BIODIVERSITY DESIGNATED SITES SHEET 1 OF 2	
Description		Copyright © Atkins Limited (2019)		Client		Drawing Number	
Status		highways england		Project		HE551519 - ATK - EBD XX - GS - GI - 000001	
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A1		C02		SD		JB	
Issue Date		09/03/20		Number		1 of 2	
Rev:		C02		Rev:		C02	



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LEGEND

- DCO Boundary
- 2km Study Area
- Ancient Woodland
- Local Nature Reserves (LNR)
- Local Wildlife Sites (LoWS, name of locally designated sites in Essex)

Sites of Importance for Nature Conservation (SINCs, name of locally designated sites in Greater London)

Classified into four categories:
Sites of Metropolitan Importance (SMI);
Sites of Borough Importance Grade 1 (SBI Grade 1);
Sites of Borough Importance Grade 2 (SBI Grade 2); and
Sites of Local Importance (SLI).

Additional sites identified in the Havering Local Plan 2016-2031 Proposals Map Changes Booklet July 2017 are identified as Proposed Sites of Borough Importance (pSBI).

Description		Drawing Suitability		Status		Project Title	
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	M25 Junction 28
Description		PUBLISHED		A1		Drawing Title	
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	FIGURE 7.3 BIODIVERSITY DESIGNATED SITES SHEET 2 OF 2
Description		ATKINS		Epsom Gateway Ashley Avenue Epsom Surrey KT18 5AL		Drawing Number	
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	Project HE551519 - ATK - EBD XX - GS - GI - 000002
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A1	C02	SD	JB	EM	PG	09/03/20	Sheet: 2 of 2
Description		Client		Volume		Rev: C02	
Description		Location		Type		Number	
Description		Scale		Role		Number	

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