

**M25 junction 28 improvement scheme
TR010029
6.2 Environmental Statement
Chapter 6: Noise and vibration figures**

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 6: NOISE AND VIBRATION 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

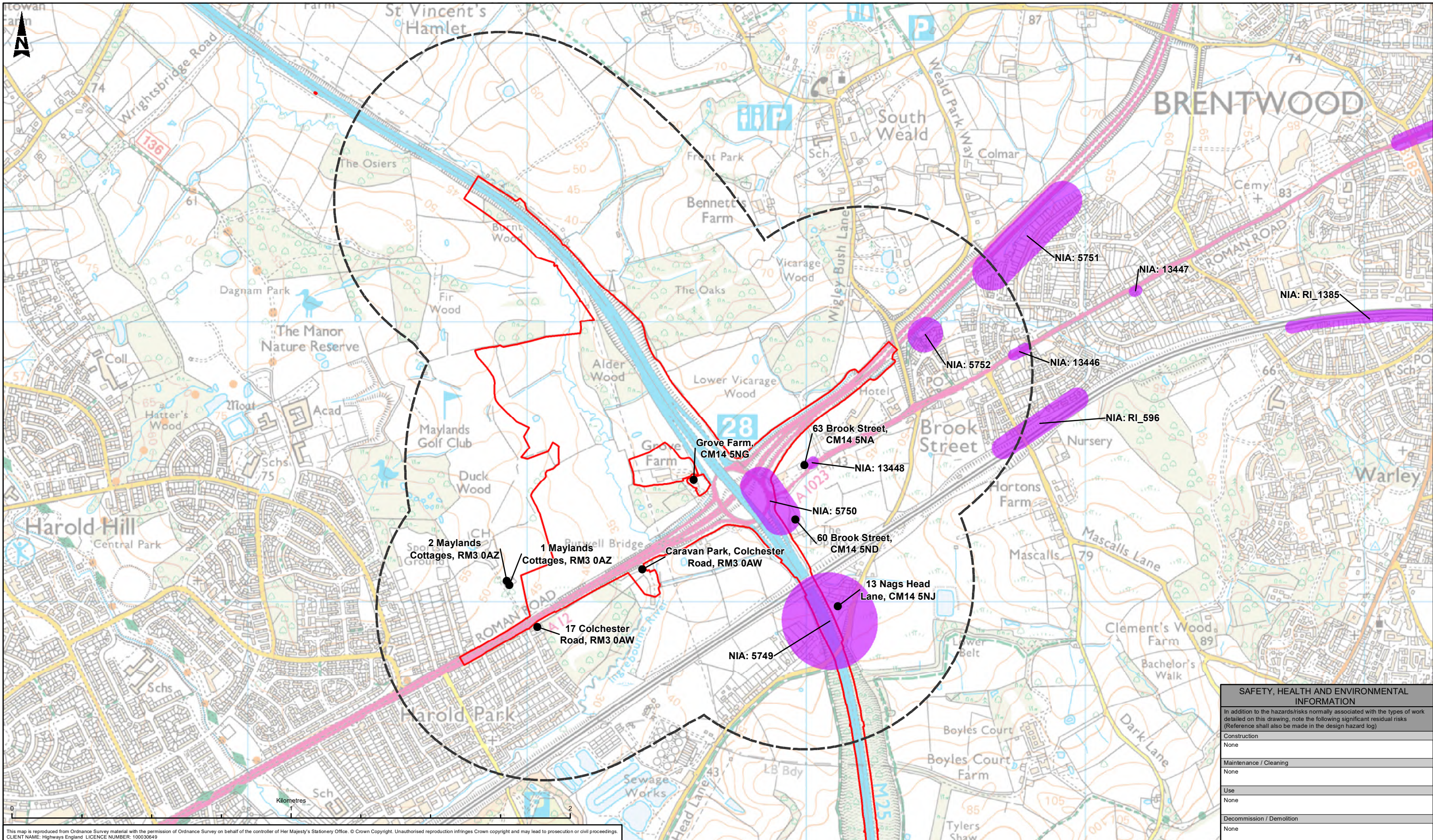
Version	Date	Status of Version
1	May 2020	Application issue

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 6.1 Study Area and Sensitive Receptors	TR010029/APP/6.2	0
Figure 6.2 DEFRA Noise Maps (Day)	TR010029/APP/6.2	0
Figure 6.3 DEFRA Noise Maps (Night)	TR010029/APP/6.2	0
Figure 6.4 Noise Survey Locations	TR010029/APP/6.2	0
Figure 6.5 Predicted Daytime Road Traffic Noise Levels, DM22	TR010029/APP/6.2	0
Figure 6.6 Predicted Daytime Road Traffic Noise Levels, DS22	TR010029/APP/6.2	0
Figure 6.7 Predicted Daytime Road Traffic Noise Levels, DM37	TR010029/APP/6.2	0
Figure 6.8 Predicted Daytime Road Traffic Noise Levels, DS37	TR010029/APP/6.2	0
Figure 6.9 Short Term Change (DS22-DM22)	TR010029/APP/6.2	0
Figure 6.10 Long Term Change with the Scheme (DS37-DM22)	TR010029/APP/6.2	0
Figure 6.11 Long Term Change without the Scheme (DM37-DM22)	TR010029/APP/6.2	0
Figure 6.12 Predicted Night-time Road Traffic Noise Levels, DM22	TR010029/APP/6.2	0
Figure 6.13 Predicted Night-time Road Traffic Noise Levels, DS22	TR010029/APP/6.2	0
Figure 6.14 Predicted Night-time Road Traffic Noise Levels, DM37	TR010029/APP/6.2	0
Figure 6.15 Predicted Night-time Road Traffic Noise Levels, DS37	TR010029/APP/6.2	0



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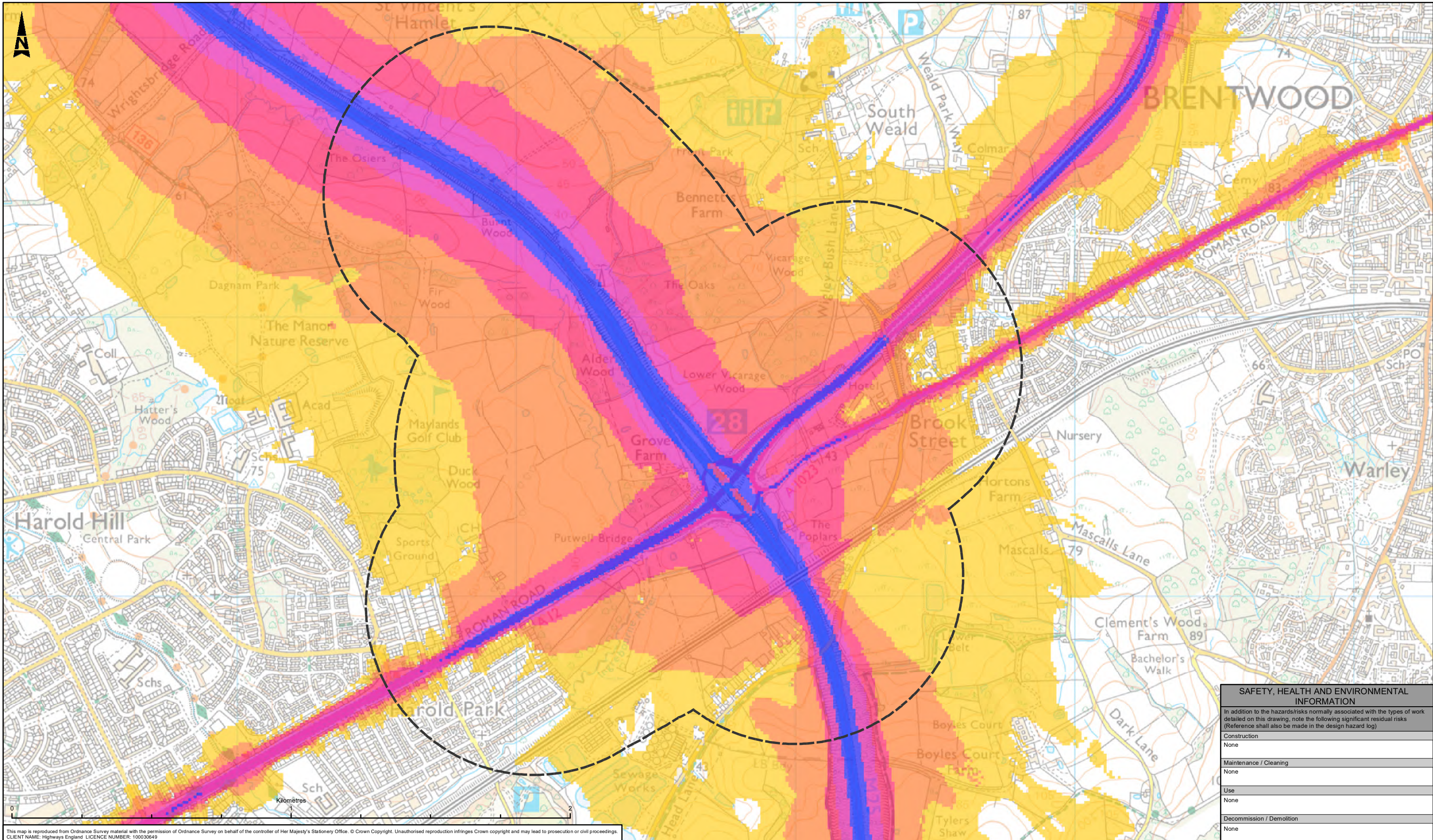
- LEGEND**
- DCO Scheme Boundary
 - 600m Study Area
 - Noise Important Areas
 - Noise Sensitive Receptors

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

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PUBLISHED	A1		RS	PH	EM	PG	19/03/20

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Project Title	M25 Junction 28				
Drawing Title	FIGURE 6.1 STUDY AREA AND SENSITIVE RECEPTORS				
Drawing Number	Project	Originator	Volume		
	HE551519 - ATK - ENV	XX - GS - GI - 000001			
Original Size	A3	Scale	1:12,500	Project Ref. No.	---
		Sheet	1 of 1	Rev.	C02



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

LEGEND							
600m Study Area							
Road Noise $L_{Aeq, 16hr}$ (07:00-23:00)							
55.0 - 59.9 dB							
60.0 - 64.9 dB							
65.0 - 69.9 dB							
70.0 - 74.9 dB							
75 dB or greater							

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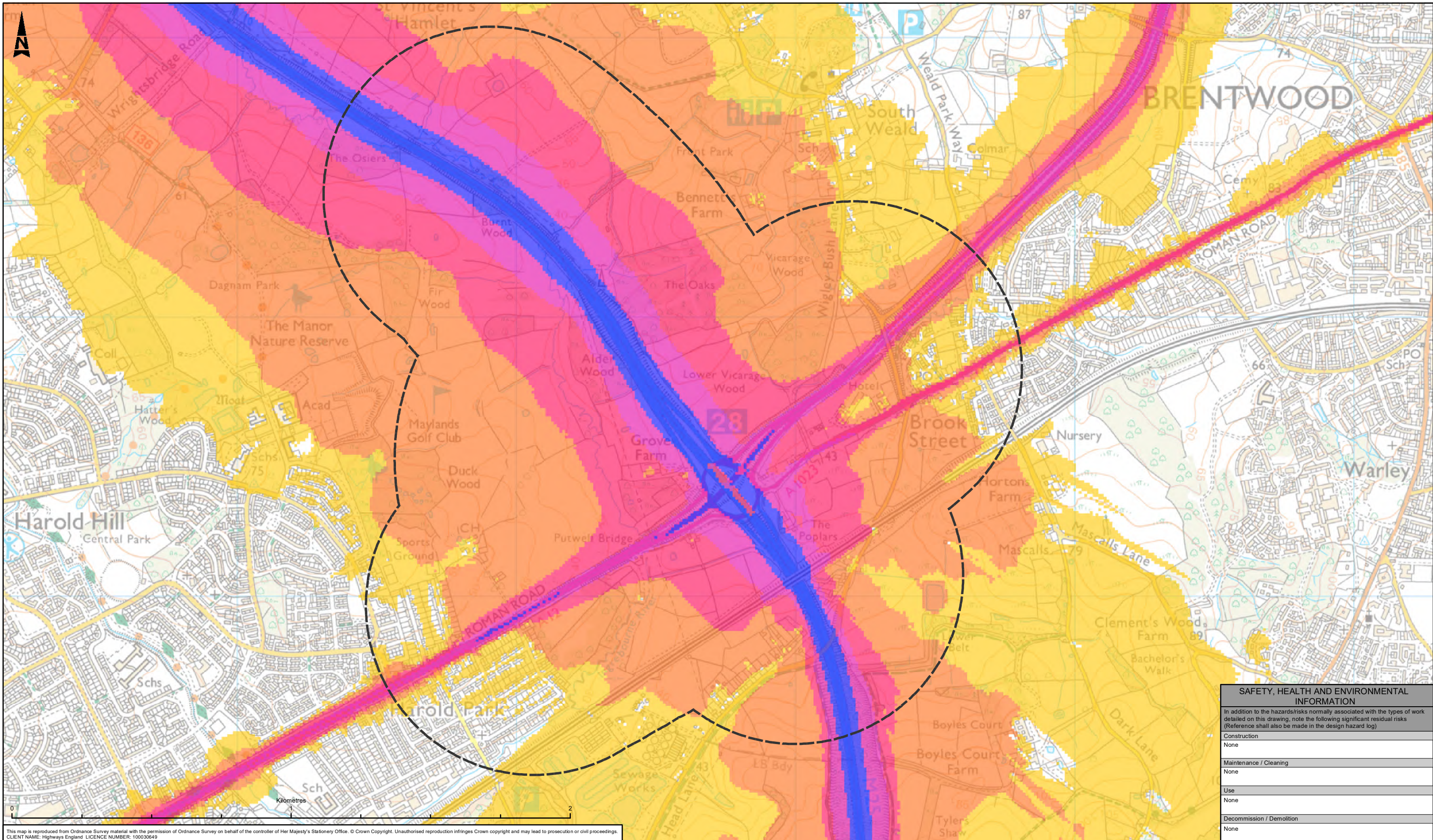
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Project Title	M25 Junction 28						
Drawing Title	FIGURE 6.2 DEFRA NOISE MAPS (DAY)						
Drawing Number	Project	Originator	Volume				
	HE551519 - ATK - ENV	XX - GS - GI - 000002					
Original Size: A3	Scale: 1:12,500	Project Ref. No.:	Sheet: 1 of 1	Rev: C02			



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

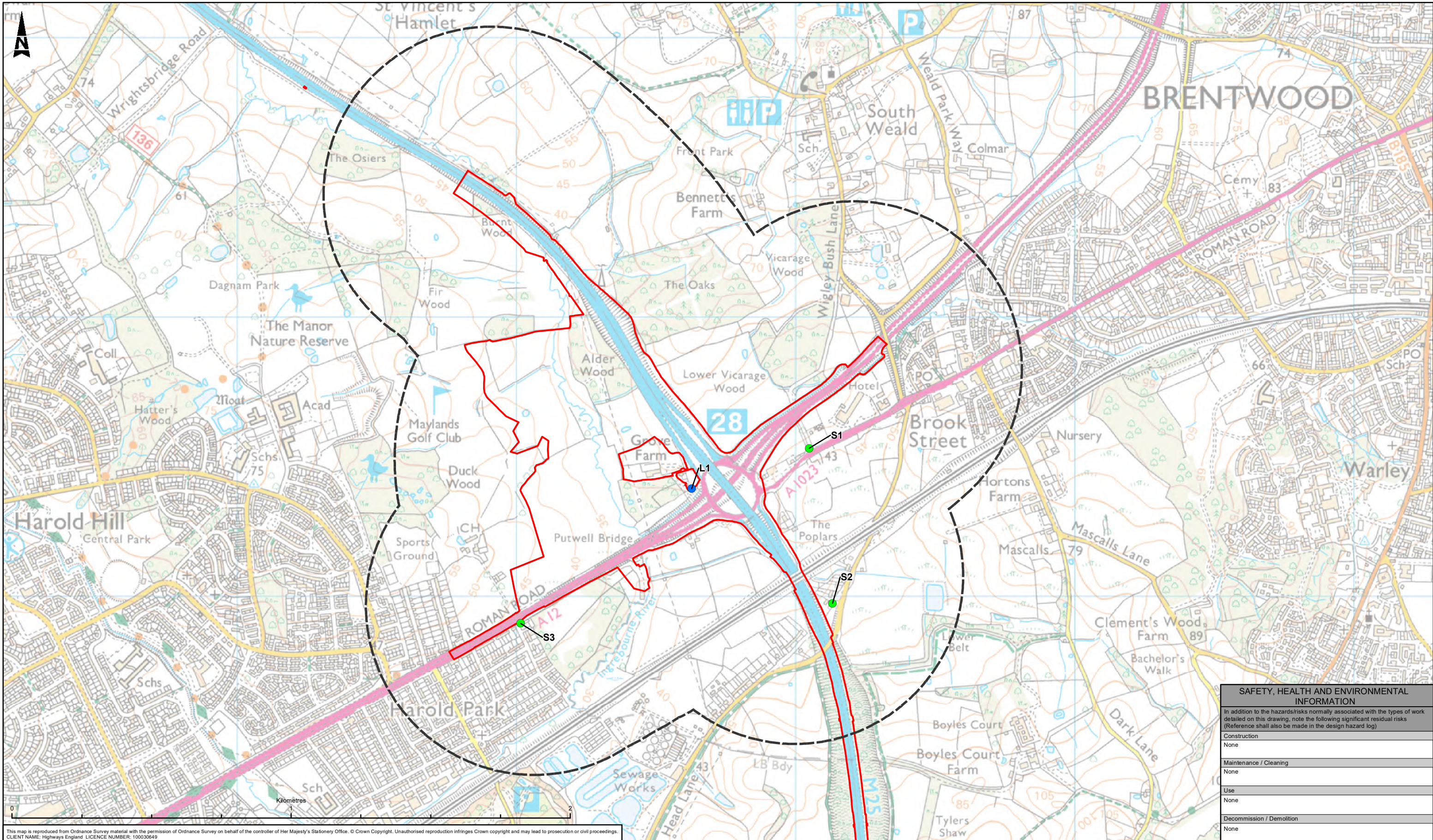
LEGEND	
	600m Study Area
Road Noise Level L_{night} 8hr (23:00-07:00)	
	50.0 - 54.9 dB
	55.0 - 59.9 dB
	60.0 - 64.9 dB
	65.0 - 69.9 dB
	70.0 dB or greater

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Project Title		M25 Junction 28	
Drawing Title		FIGURE 6.3 DEFRA NOISE MAPS (NIGHT)	
Drawing Number		HE551519 - ATK - ENV XX - GS - GI - 000003	
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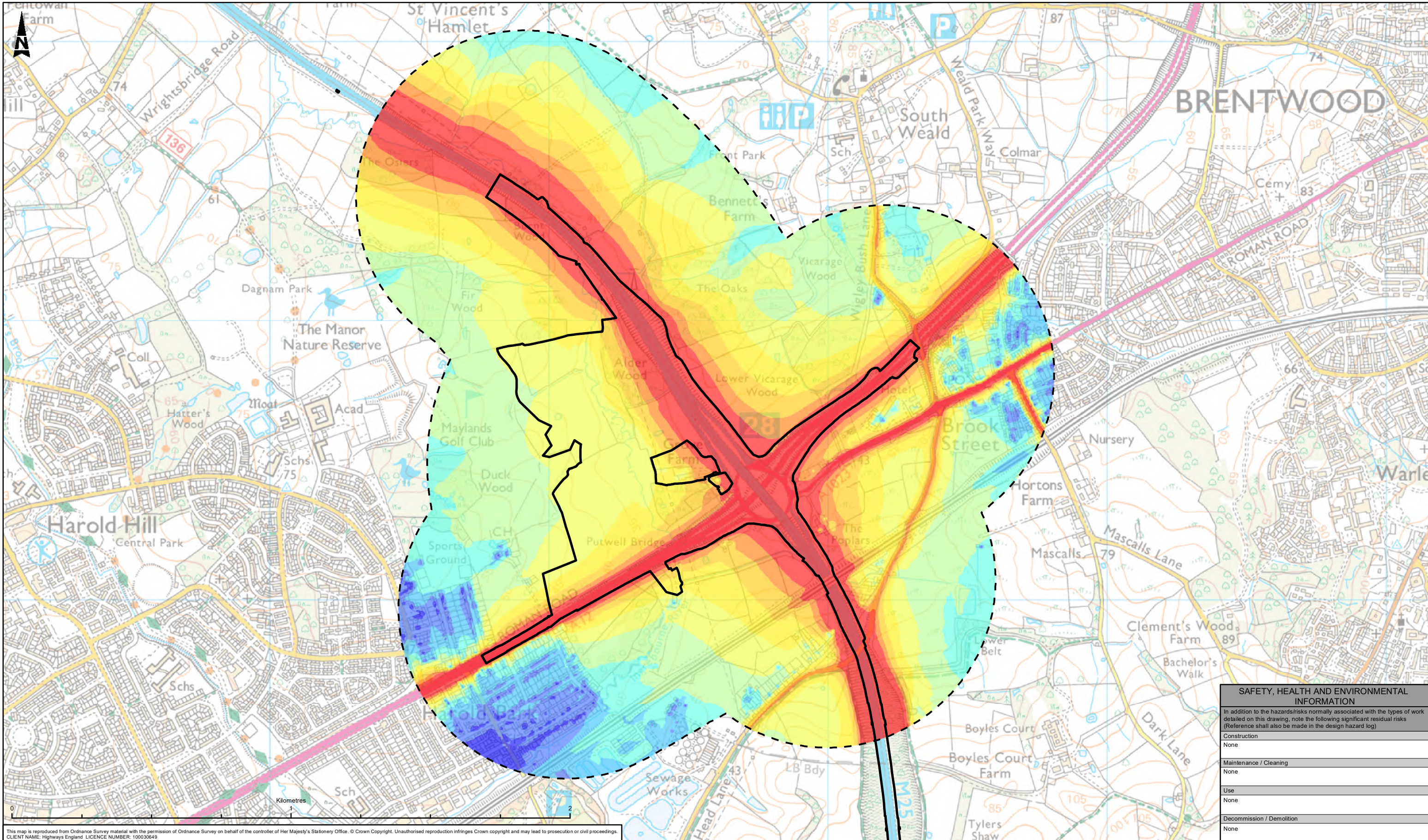
- LEGEND**
- DCOScheme Boundary
 - 600m Study Area
 - Noise Monitoring Locations**
 - Long Term Monitoring
 - Short Term Monitoring

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

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Project Title		M25 Junction 28	
Drawing Title		FIGURE 6.4 NOISE SURVEY LOCATIONS	
Drawing Number		Project Originator Volume HE551519 - ATK - ENV XX - GS - GI - 000004	
Original Size: A3	Scale: 1:12,500	Project Ref. No: --	Sheet: 1 of 1 Rev: C02



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Construction	None
Maintenance / Clearing	None
Use	None
Decommission / Demolition	None

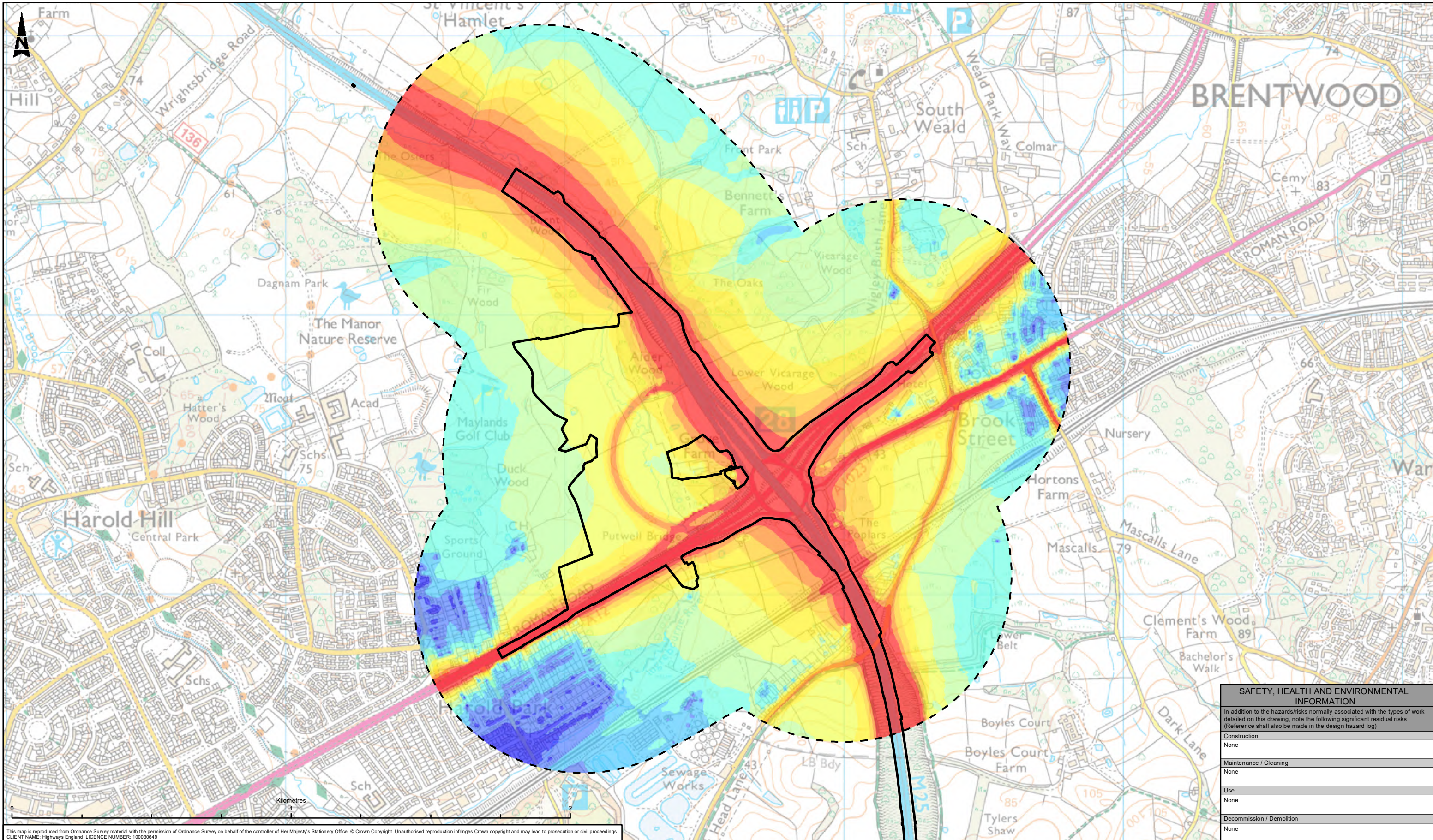
LEGEND	
	DCO Scheme Boundary
	600m Study Area
	Noise Level dB L _{A10,15hr} >70.0 dB
	67.5 - 70.0 dB
	65.0 - 67.5 dB
	62.5 - 65.0 dB
	60.0 - 62.5 dB
	57.5 - 60.0 dB
	55.0 - 57.5 dB
	52.5 - 55.0 dB
	50.0 - 52.5 dB
	< 50.0 dB

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Project Title	M25 Junction 28
Drawing Title	FIGURE 6.5 PREDICTED DAYTIME ROAD TRAFFIC NOISE LEVELS, DM22
Drawing Number	HE551519 - ATK - ENV XX - GS - GI - 000005
Original Size	A3
Scale	1:12,500
Project Ref. No.	---
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LEGEND	
	DCO Scheme Boundary
	600m Study Area
	Noise Level $dB L_{A10,15hr}$ >70.0 dB
	67.5 - 70.0 dB
	65.0 - 67.5 dB
	62.5 - 65.0 dB
	60.0 - 62.5 dB
	57.5 - 60.0 dB
	55.0 - 57.5 dB
	52.5 - 55.0 dB
	50.0 - 52.5 dB
	< 50.0 dB

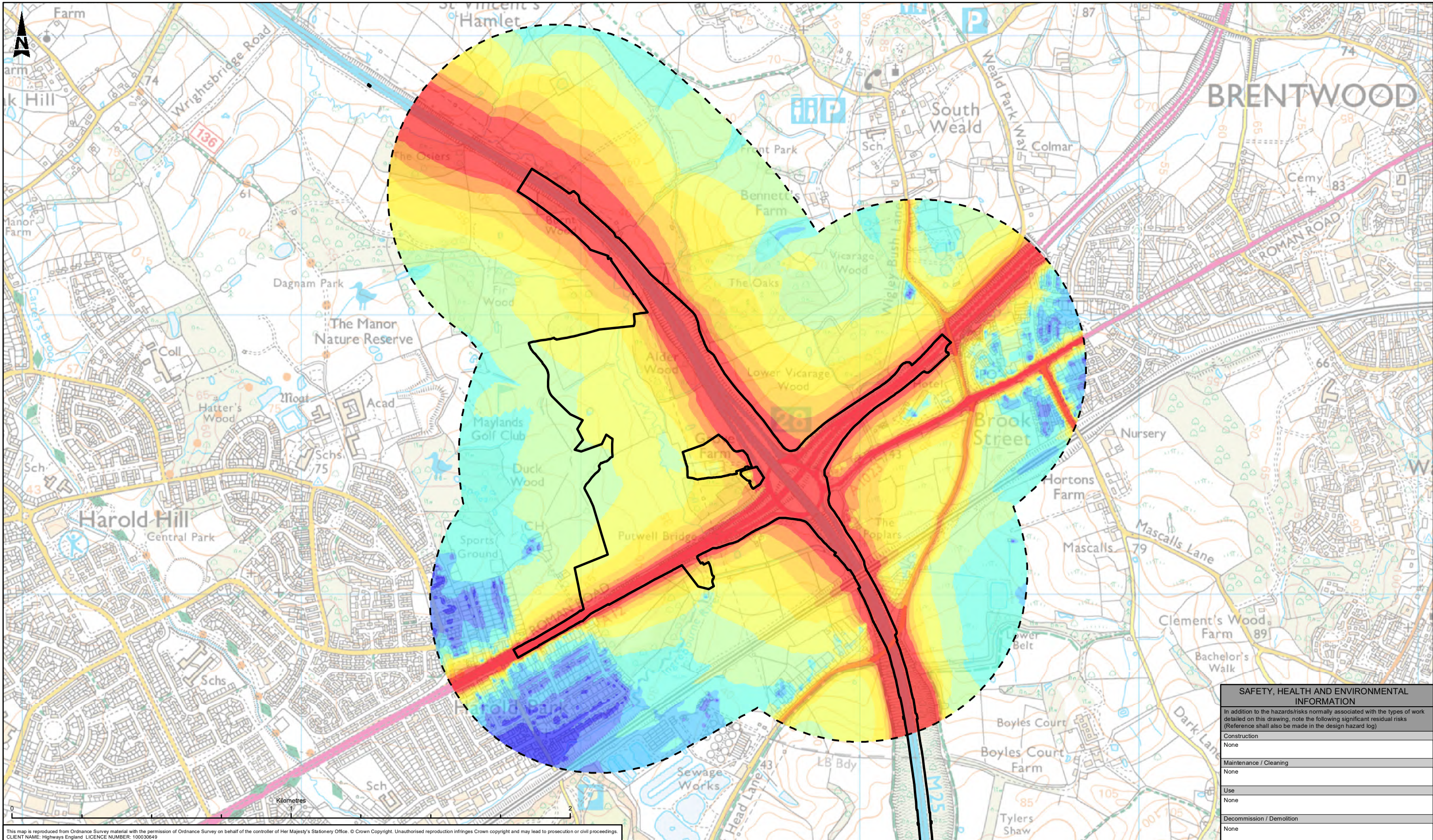
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Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None
Project Title	M25 Junction 28
Drawing Title	FIGURE 6.6 PREDICTED DAYTIME ROAD TRAFFIC NOISE LEVELS, DS22
Drawing Number	Project: HE551519 - ATK - ENV Originator: XX - GS - GI - 000006 Volume: 1 of 1
Original Size: A3	Scale: 1:12,500 Project Ref. No.: --- Sheet: 1 of 1 Rev: C02



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LEGEND	
	DCO Scheme Boundary
	600m Study Area
	Noise Level $\text{dB } L_{A10,15hr}$ >70.0 dB
	67.5 - 70.0 dB
	65.0 - 67.5 dB
	62.5 - 65.0 dB
	60.0 - 62.5 dB
	57.5 - 60.0 dB
	55.0 - 57.5 dB
	52.5 - 55.0 dB
	50.0 - 52.5 dB
	< 50.0 dB

Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
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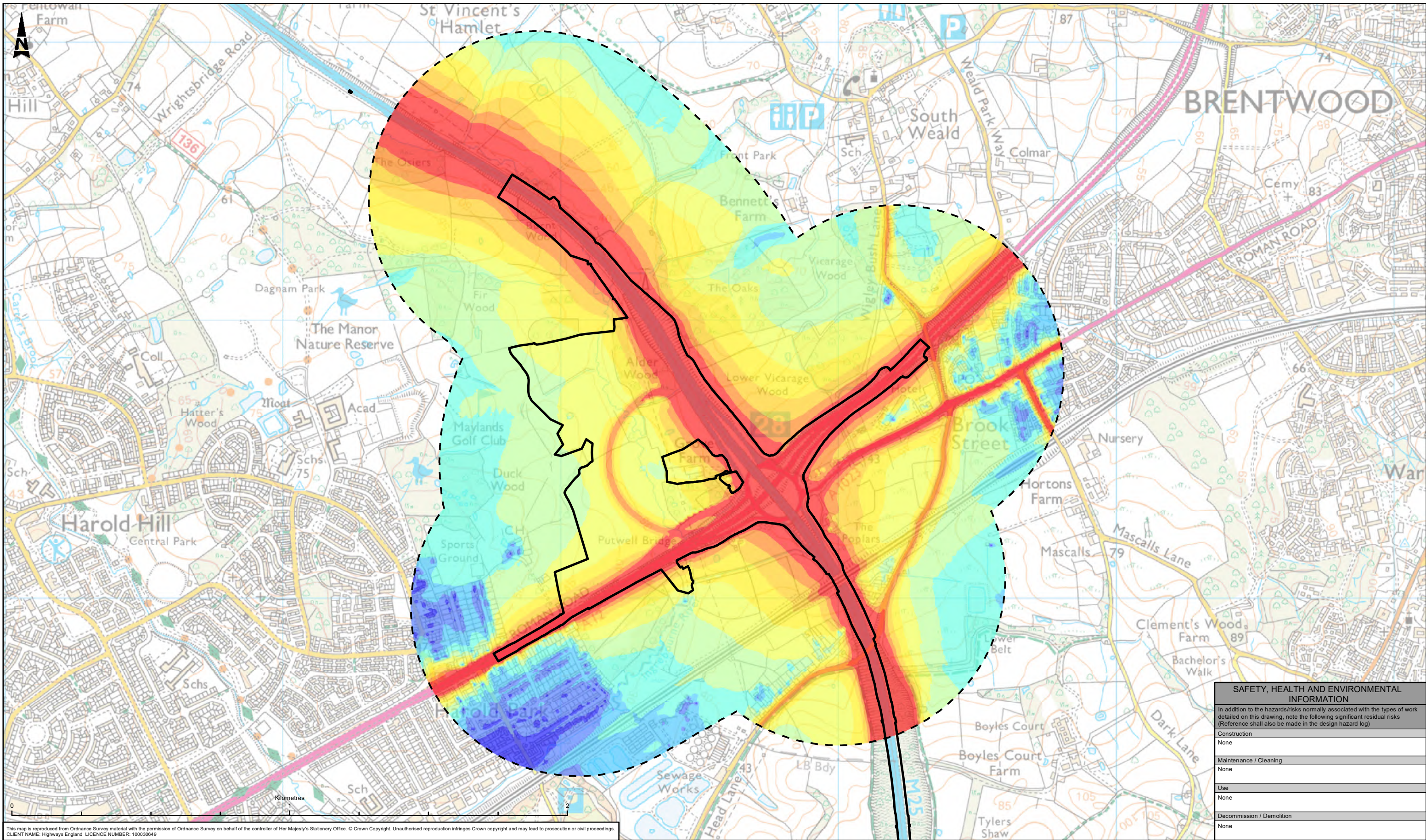
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Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None
Project Title	M25 Junction 28
Drawing Title	FIGURE 6.7 PREDICTED DAYTIME ROAD TRAFFIC NOISE LEVELS, DM37
Drawing Number	Project: HE551519 - ATK - ENV Originator: XX - GS - GI - 000007 Volume: ---
Original Size: A3	Scale: 1:12,500 Project Ref. No.: --- Sheet: 1 of 1 Rev: C02



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Construction	None
Maintenance / Clearing	None
Use	None
Decommission / Demolition	None

LEGEND	
	DCO Scheme Boundary
	600m Study Area
	Noise Level dB $L_{A10,15hr}$ >70.0
	67.5 - 70.0 dB
	65.0 - 67.5 dB
	62.5 - 65.0 dB
	60.0 - 62.5 dB
	57.5 - 60.0 dB
	55.0 - 57.5 dB
	52.5 - 55.0 dB
	50.0 - 52.5 dB
	<math>< 50.0\text{ dB}</math>

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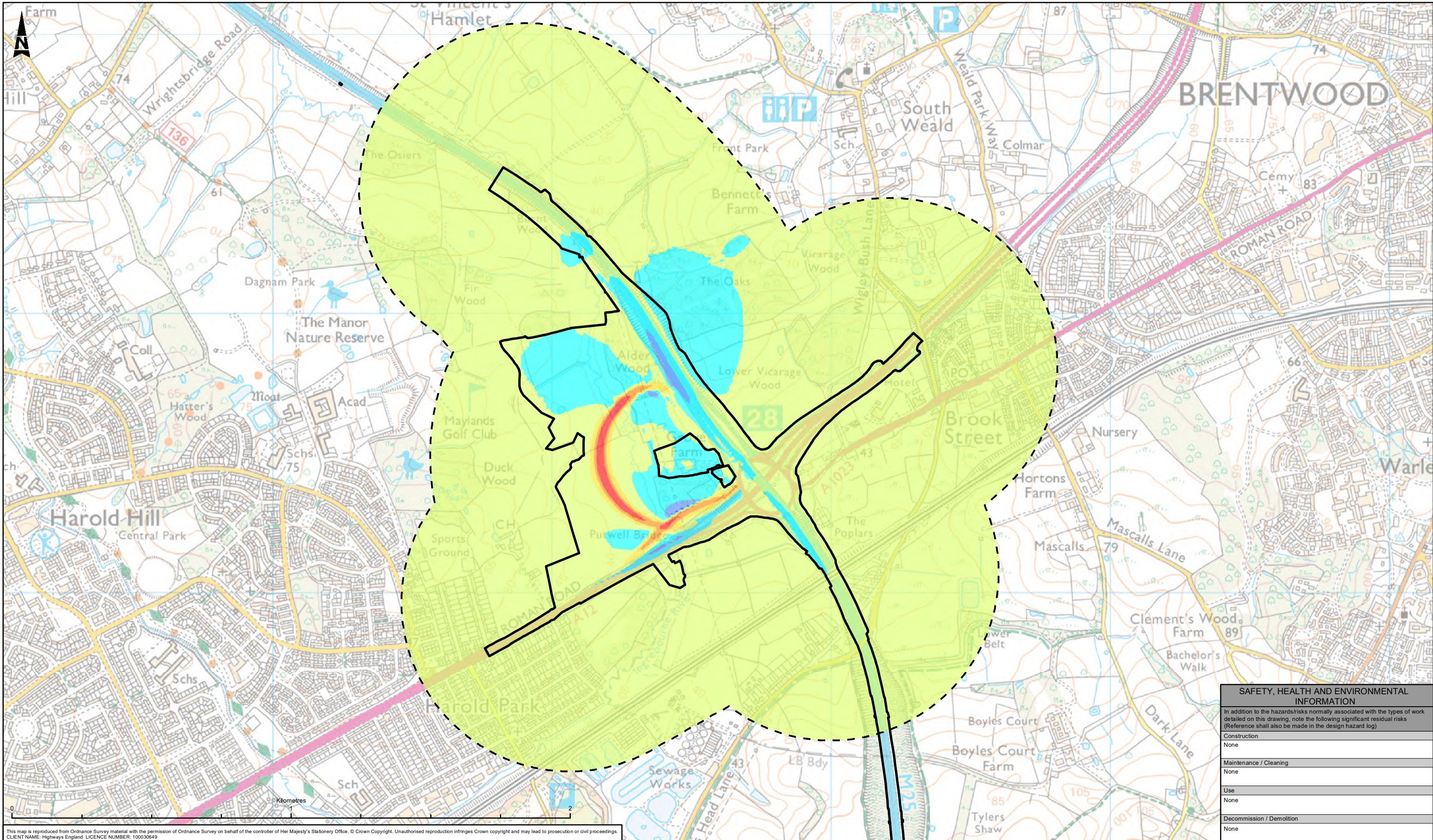
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Project Title	M25 Junction 28
Drawing Title	FIGURE 6.8 PREDICTED DAYTIME ROAD TRAFFIC NOISE LEVELS, DS37
Drawing Number	HE551519 - ATK - ENV XX - GS - GI - 000008
Original Size	A3
Scale	1:12,500
Project Ref. No.	---
Sheet	1 of 1
Rev.	C02

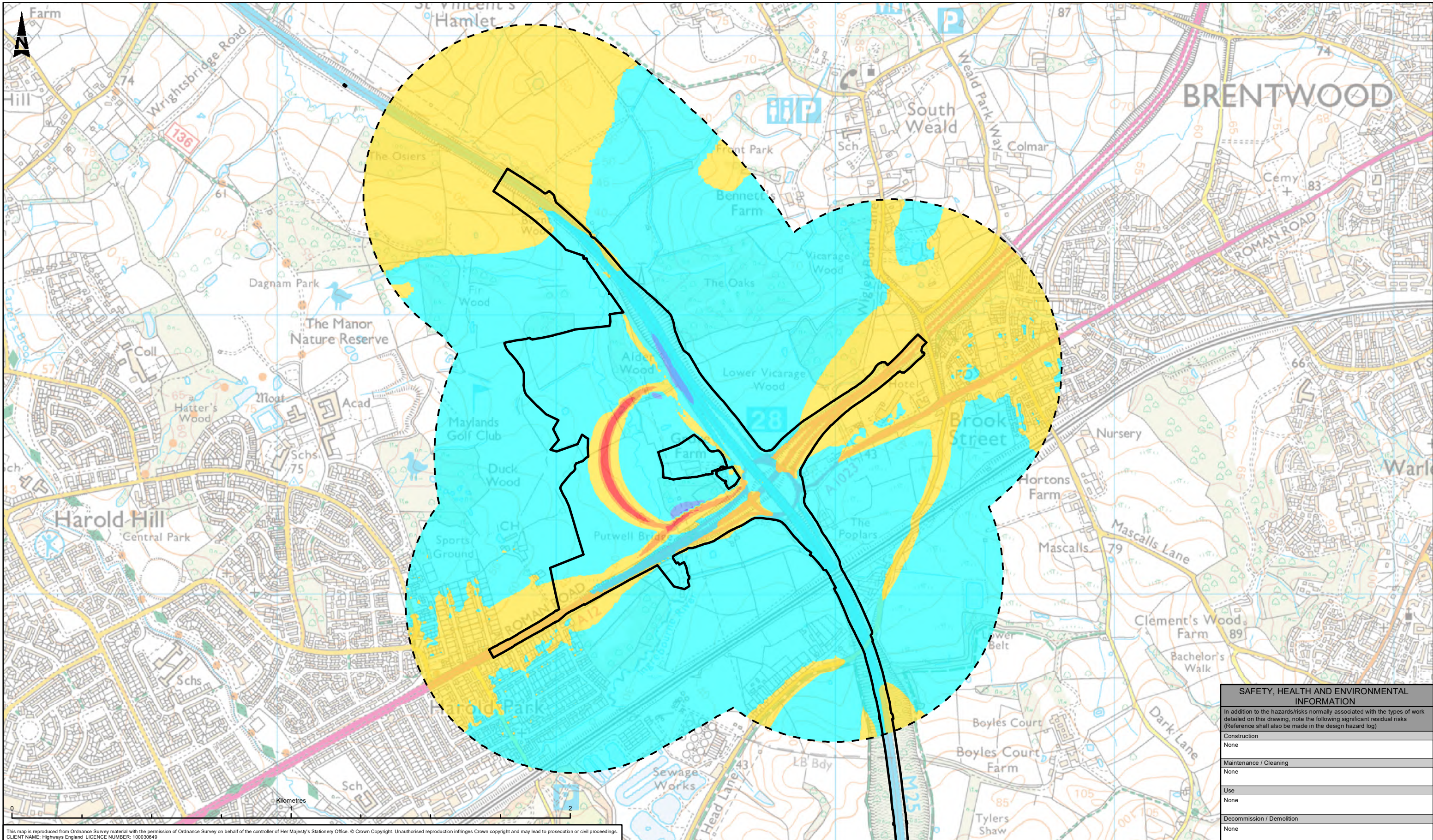


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LEGEND	
	DCO Scheme Boundary
	600m Study Area
	Noise Level dB $L_{A10,18hr}$ 5.0 to 10.0 dB
	3.0 to 5.0 dB
	1.0 to 3.0 dB
	-1.0 to 1.0 dB
	-3.0 to -1.0 dB
	-5.0 to -3.0 dB
	-12.5 to -5.0 dB

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

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Description				FIGURE 6.9 SHORT TERM CHANGE (DS22-DM22)		
Description		Client		Drawing Number		
PUBLISHED		Project: HE551519 - ATK - ENV Originator: XX - GS - GI - 000009 Volume:		Location: A3 Scale: 1:12,500 Project Ref. No.: -- Sheet: 1 of 1 Rev: C02		
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LEGEND	
	DCOScheme Boundary
	600m Study Area
	5.0 to 10.0 dB
	3.0 to 5.0 dB
	1.0 to 3.0 dB
	-1.0 to 1.0 dB
	-3.0 to -1.0 dB
	-5.0 to -3.0 dB
	-10.0 to -5.0 dB

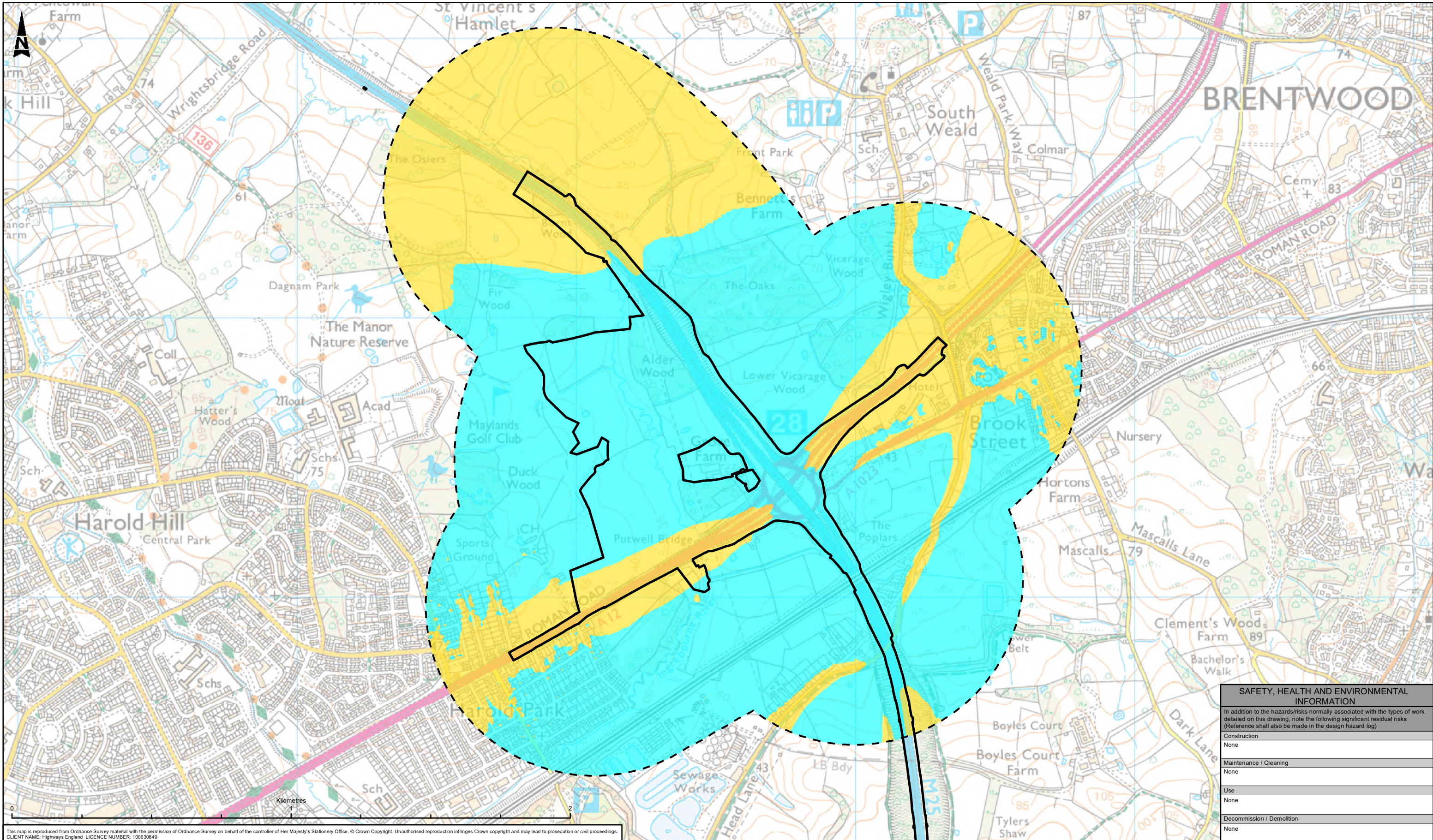
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Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

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Project Title	M25 Junction 28
Drawing Title	FIGURE 6.10 LONG TERM CHANGE WITH THE SCHEME (DS37-DM22)
Drawing Number	Project: HE551519 - ATK - ENV Originator: XX - GS - GI - 000010 Volume: ---
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Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

LEGEND	
	DCOScheme Boundary
	600m Study Area
	Noise Level dB L _{A10,18hr} 5.0 to 10.0 dB
	3.0 to 5.0 dB
	1.0 to 3.0 dB
	-1.0 to 1.0 dB
	-3.0 to -1.0 dB
	-5.0 to -3.0 dB
	-12.5 to -5.0 dB

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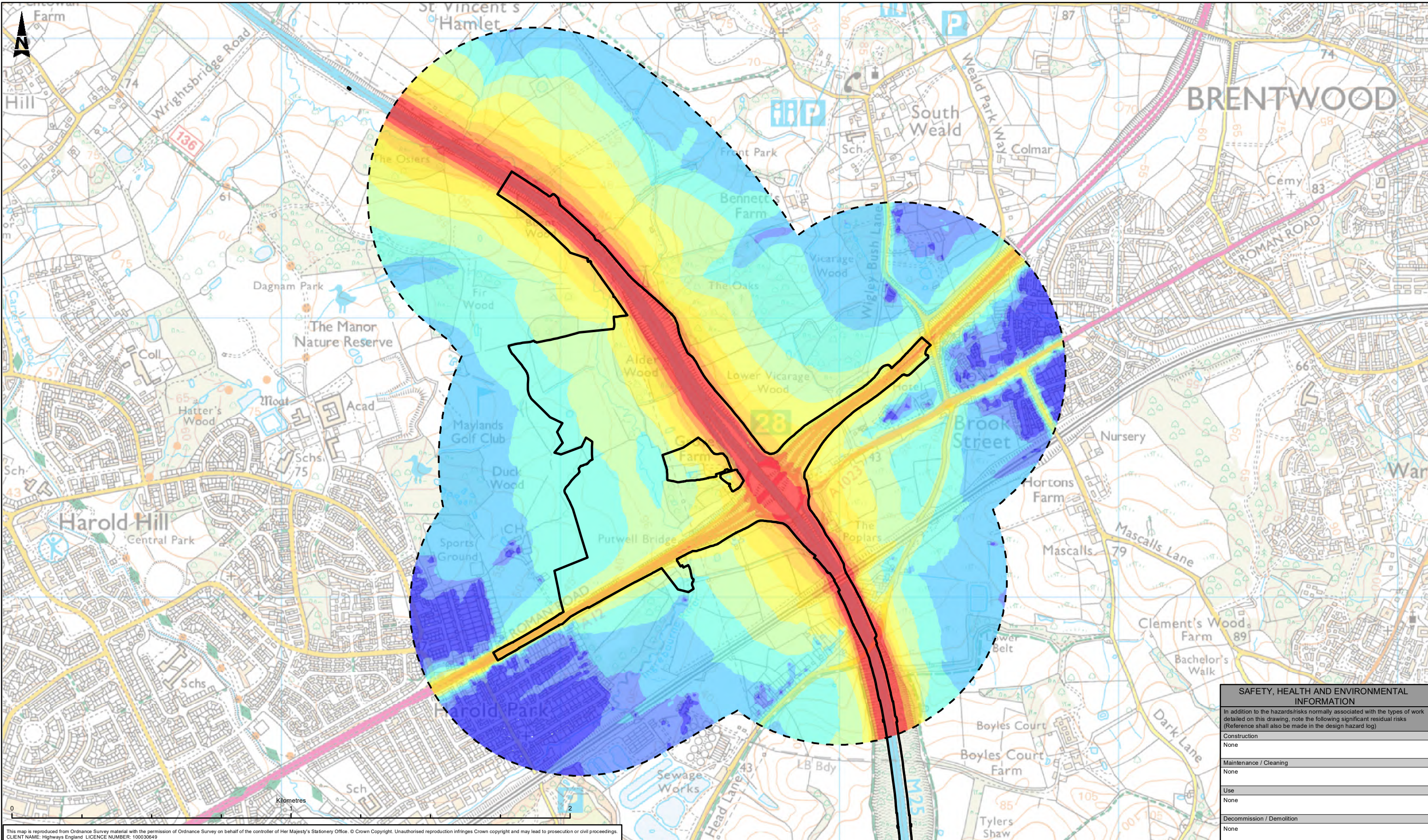
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Project Title	M25 Junction 28
Drawing Title	FIGURE 6.11 LONG TERM CHANGE WITHOUT THE SCHEME (DM37-DM22)
Drawing Number	Project: HE551519 - ATK - ENV Originator: XX - GS - GI - 000111 Volume: 1 of 1
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LEGEND	
	DCO Scheme Boundary
	600m Study Area
Noise Level dB L _{night}	
	>70.0 dB
	67.5 - 70.0 dB
	65.0 - 67.5 dB
	62.5 - 65.0 dB
	60.0 - 62.5 dB
	57.5 - 60.0 dB
	55.0 - 57.5 dB
	52.5 - 55.0 dB
	50.0 - 52.5 dB
	< 50.0 dB

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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

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PUBLISHED	A1						18/03/20

Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
PUBLISHED	A1						18/03/20

Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
PUBLISHED	A1						18/03/20

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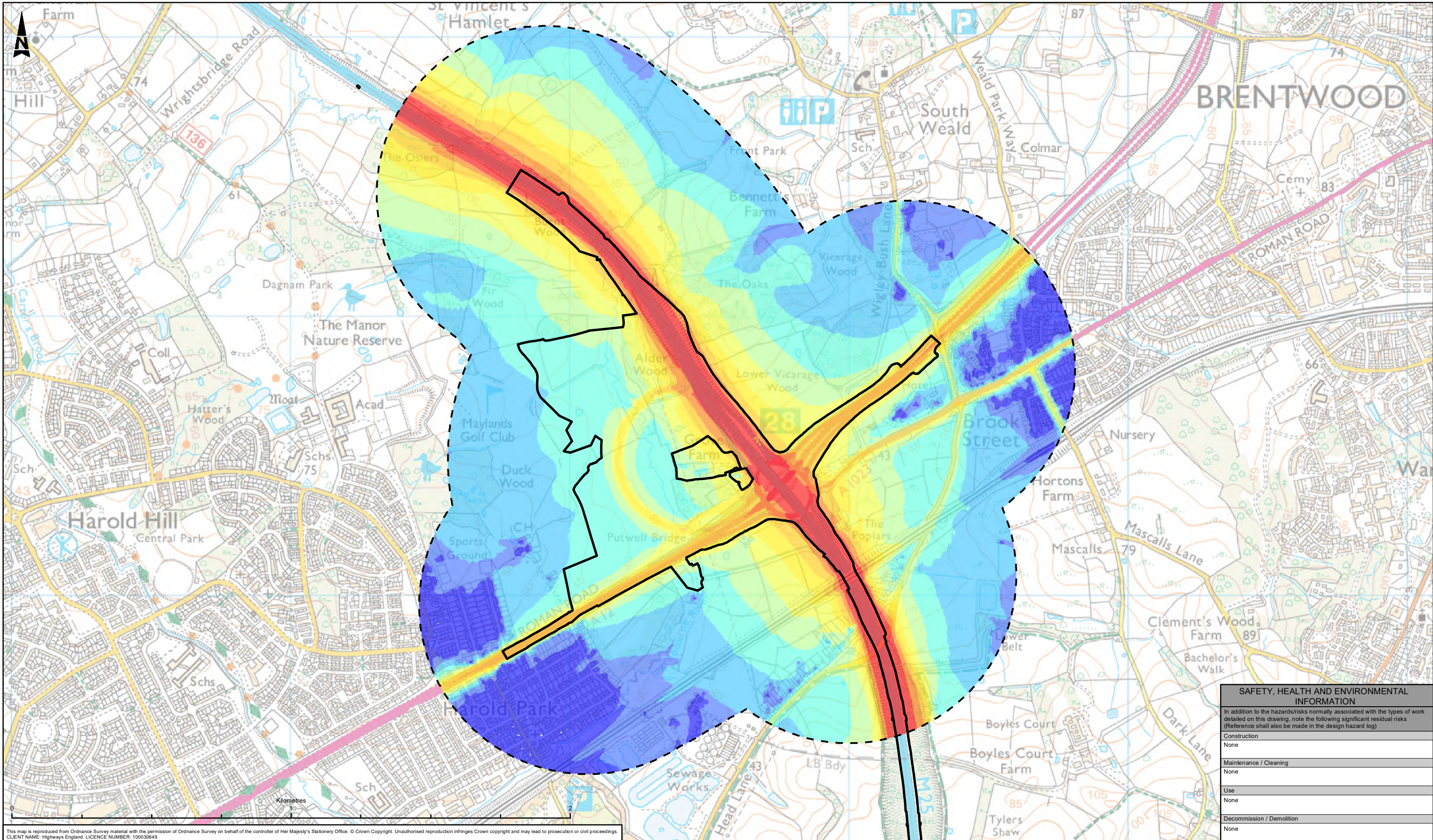
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Project Title	M25 Junction 28
Drawing Title	FIGURE 6.12 PREDICTED NIGHT-TIME ROAD TRAFFIC NOISE LEVELS, DM22
Drawing Number	Project: HE551519 - ATK - XXXX Originator: XX - GS - GI - XXXXXXXX Volume: ---
Original Size: A3	Scale: 1:12,500 Project Ref. No.: --- Sheet: 1 of 1 Rev: C02

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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

LEGEND	
	DCO Scheme Boundary
	600m Study Area
	Noise Level dB L _{A10,18hr} >70.0 dB
	67.5 - 70.0 dB
	65.0 - 67.5 dB
	62.5 - 65.0 dB
	60.0 - 62.5 dB
	57.5 - 60.0 dB
	55.0 - 57.5 dB
	52.5 - 55.0 dB
	50.0 - 52.5 dB
	< 50.0 dB

Description						
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
PUBLISHED						18/03/20

Drawing Suitability: **PUBLISHED**

Status: **A1**

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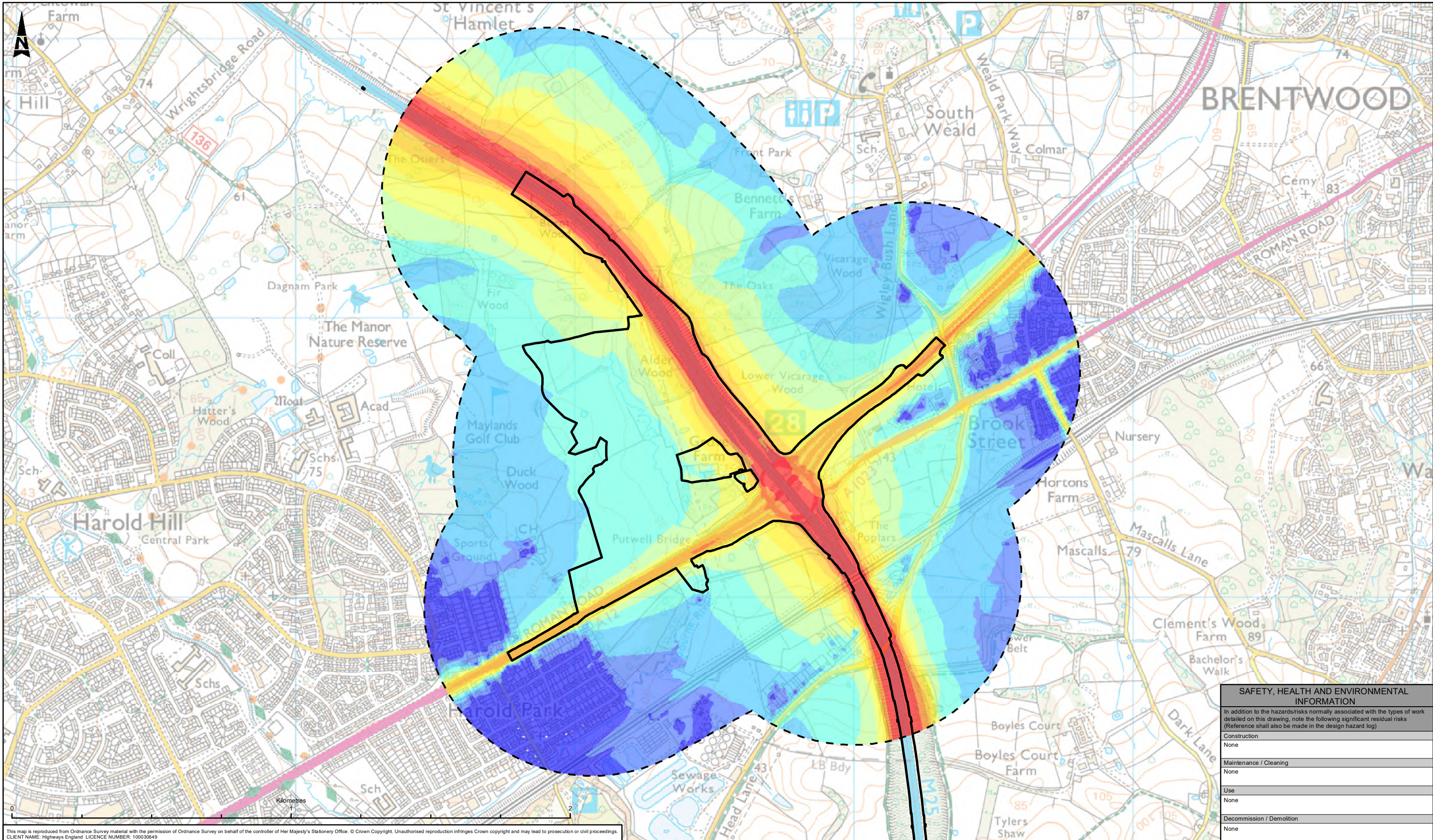
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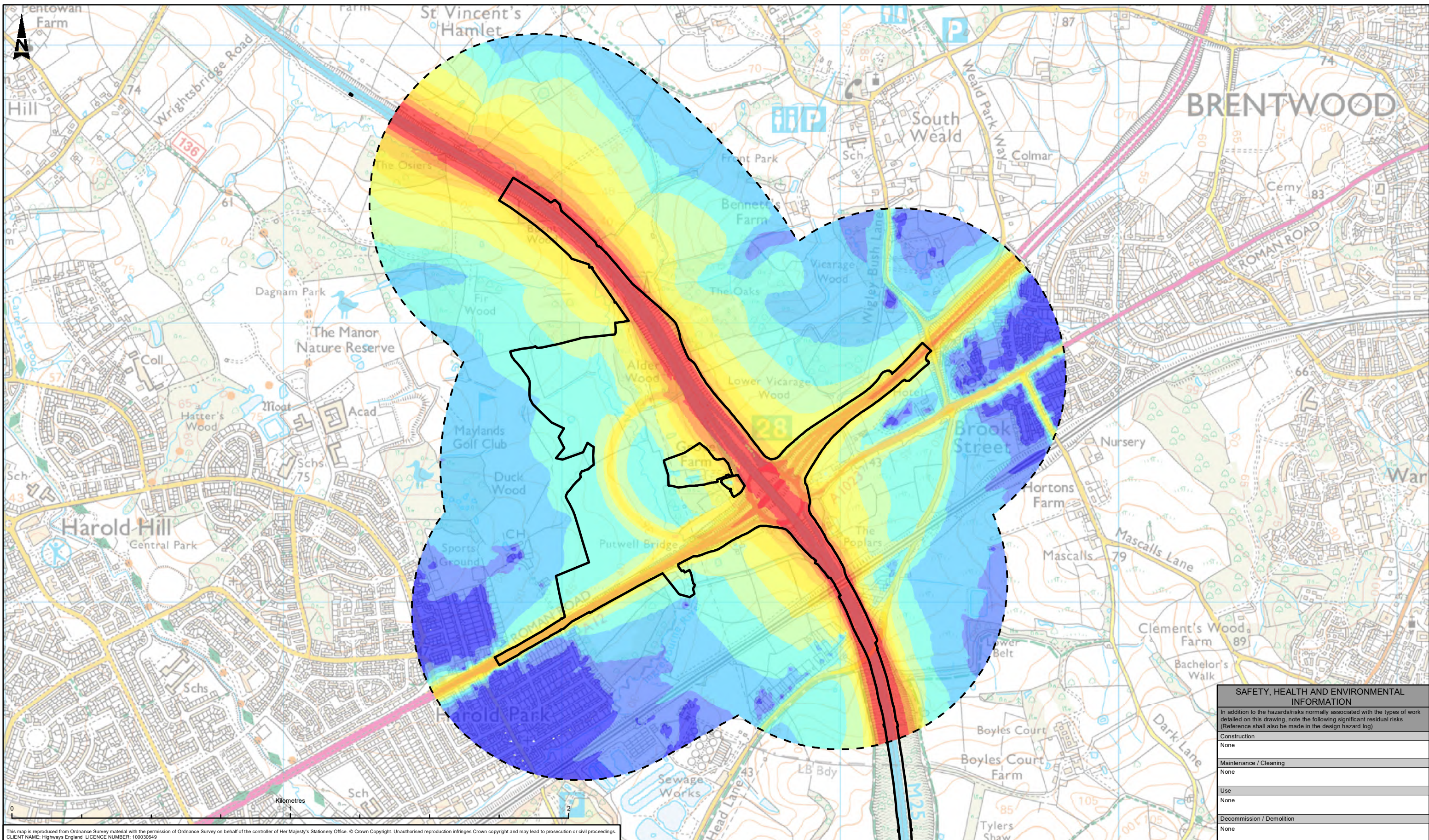
Project Title	M25 Junction 28				
Drawing Title	FIGURE 6.13 PREDICTED NIGHT-TIME ROAD TRAFFIC NOISE LEVELS, DS22				
Drawing Number	Project	Originator	Volume		
	HE551519 - ATK - ENV	XX - GS - GI - 000013			
Original Size: A3	Scale: 1:12,500	Project Ref. No: --	Sheet: 1 of 1	Rev: C02	



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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

LEGEND DCO Scheme Boundary 600m Study Area Noise Level dB L_{night} >70.0 dB 67.5 - 70.0 dB 65.0 - 67.5 dB 62.5 - 65.0 dB 60.0 - 62.5 dB 57.5 - 60.0 dB 55.0 - 57.5 dB 52.5 - 55.0 dB 50.0 - 52.5 dB <50.0 dB	Description Status Revision Drawn Checked Reviewed Authorised Issue Date PUBLISHED Status A1 Revision C02 Drawn KV Checked PH Reviewed EM Authorised PG Issue Date 18/03/20	Drawing Suitability PUBLISHED 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 Copyright © Atkins Limited (2020) www.atkinsglobal.com	Status A1 Project Title M25 Junction 28 Drawing Title FIGURE 6.14 PREDICTED NIGHT-TIME ROAD TRAFFIC NOISE LEVELS, DM37
	Description Status Revision Drawn Checked Reviewed Authorised Issue Date PUBLISHED Status A1 Revision C02 Drawn KV Checked PH Reviewed EM Authorised PG Issue Date 18/03/20	Client 	Drawing Number Project HE551519 - ATK - ENV Originator XX - GS - GI - 000014 Volume Location Type Role Number Original Size: A3 Scale 1:12,500 Project Ref. No. --- Sheet 1 of 1 Rev: C02



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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

LEGEND			
	DCO Scheme Boundary		
	600m Study Area		
	Noise Level dB L _{night} >70.0		57.5 - 60.0
	67.5 - 70.0		55.0 - 57.5
	65.0 - 67.5		52.5 - 55.0
	62.5 - 65.0		50.0 - 52.5
	60.0 - 62.5		< 50.0

Description							
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	
PUBLISHED							
A1	C02	KV	PH	EM	PG	18/03/20	

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Project Title	M25 Junction 28
Drawing Title	FIGURE 6.15 PREDICTED NIGHT-TIME ROAD TRAFFIC NOISE LEVELS, DS37
Drawing Number	HE551519 - ATK - ENV XX - GS - GI - 000015
Original Size	A3
Scale	1:12,500
Project Ref. No.	---
Sheet	1 of 1
Rev.	C02

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