



Gatwick Airport Northern Runway Project

Environmental Statement
Noise and Vibration Figures - Part 1

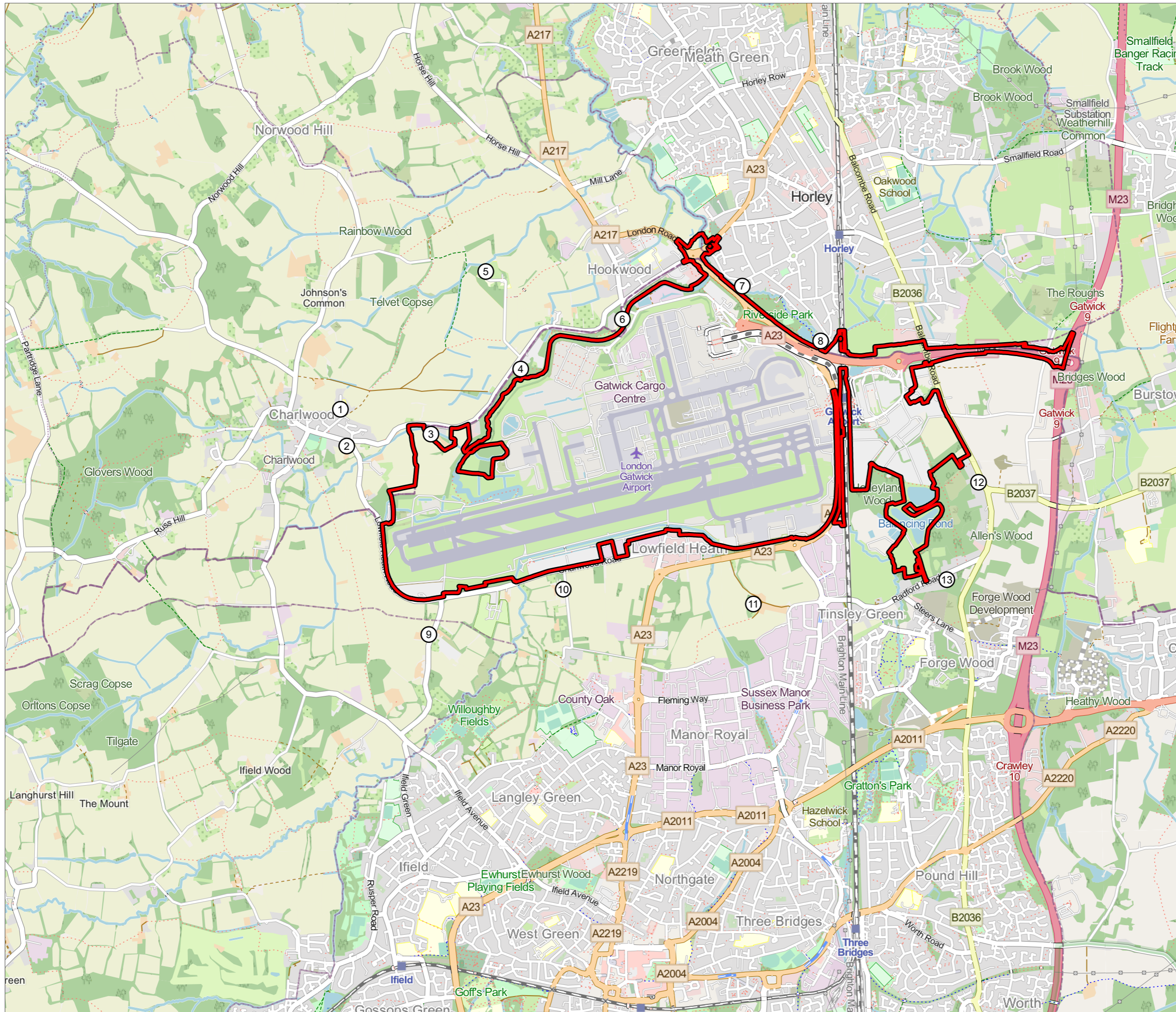
Book 5

VERSION: 1.0

DATE: JULY 2023

Application Document Ref: 5.2

PINS Reference Number: TR020005



- KEY**
- Baseline Noise Monitoring Sites
 - ▭ Project Site Boundary
- 1 - Blue Cedars
 - 2 - 3 Charlwood Road
 - 3 - Brook Farm
 - 4 - Bear and Bunny Nursery
 - 5 - April Cottage
 - 6 - Oakfield Cottage
 - 7 - 103 Cheyne Walk
 - 8 - 82 The Crescent
 - 9 - Hyders Farm House
 - 10 - Myrtle Cottage
 - 11 - Rowley Farmhouse
 - 12 - Trent House
 - 13 - Hoots Cottage

DOCUMENT
Environmental Statement

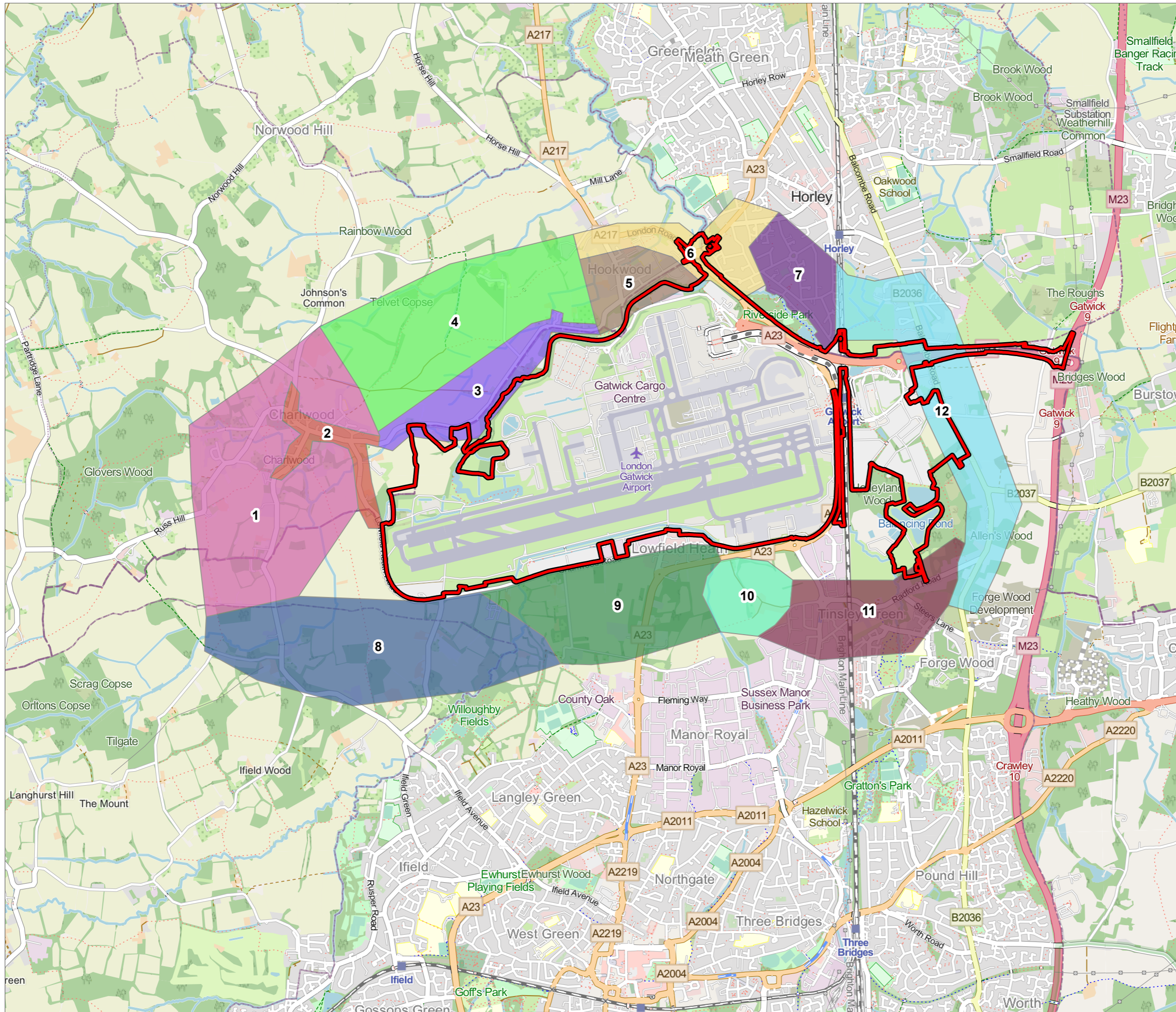
DRAWING TITLE
Baseline Noise Monitoring Sites

DATE
July 2023

ORIENTATION 	DRAWING NO. 14.4.1	REVISION For ES Issue
	DRAWN BY MTC	PM / CHECKED BY SM



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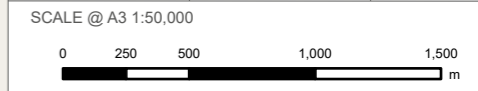
- KEY**
- Project Site Boundary
 - Noise Sensitive Receptor Areas**
 - 1 - Outer Charlwood
 - 2 - Charlwood
 - 3 - Charlwood Road
 - 4 - Farmfield
 - 5 - Povey Cross
 - 6 - Longbridge Road
 - 7 - Riverside, Horley
 - 8 - Bonnetts Lane
 - 9 - Lowfield Heath
 - 10 - Rowley Farm
 - 11 - Tinsley Green
 - 12 - Balcombe Road

DOCUMENT
Environmental Statement

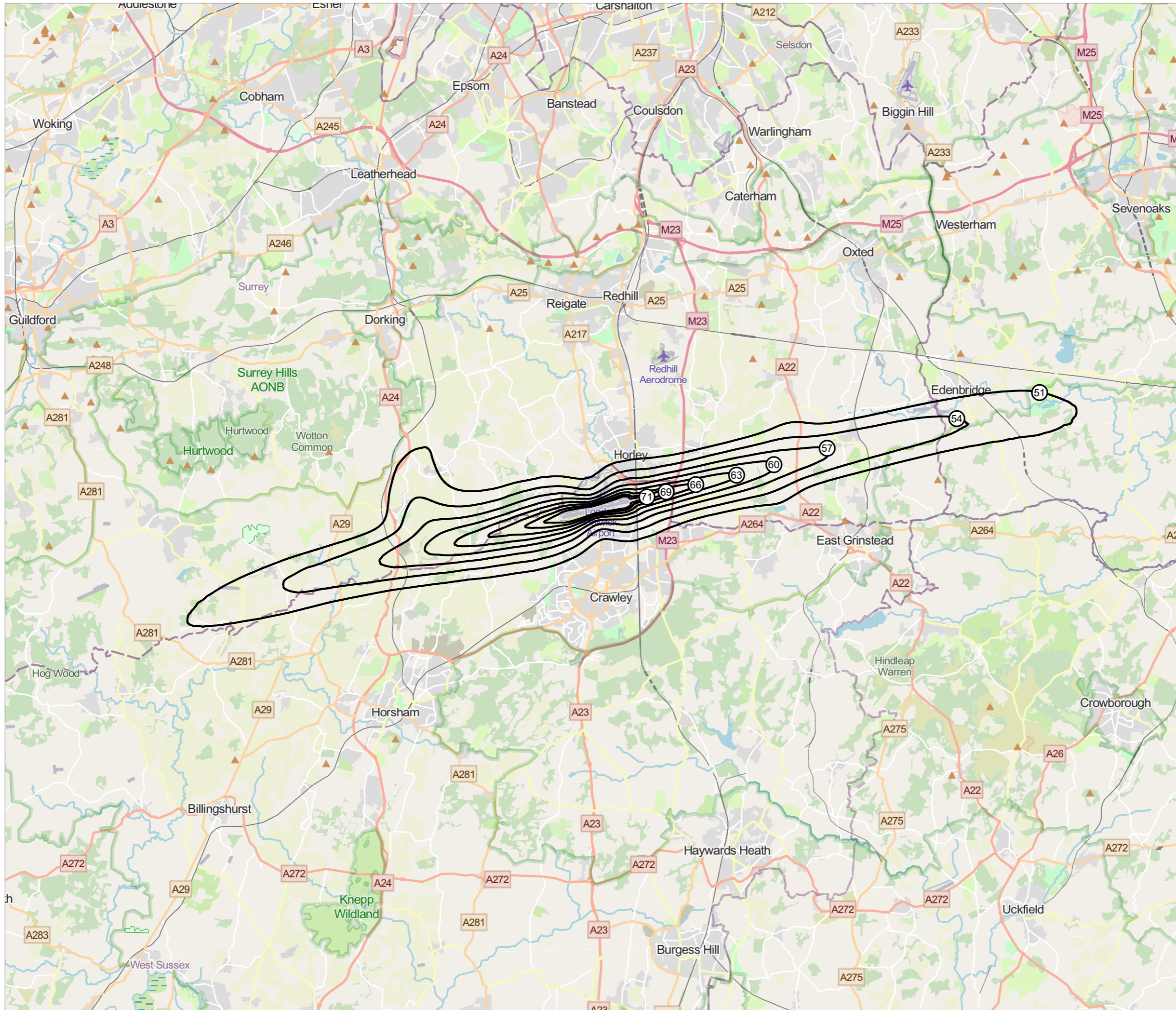
DRAWING TITLE
Noise Sensitive Receptor Areas

DATE
July 2023

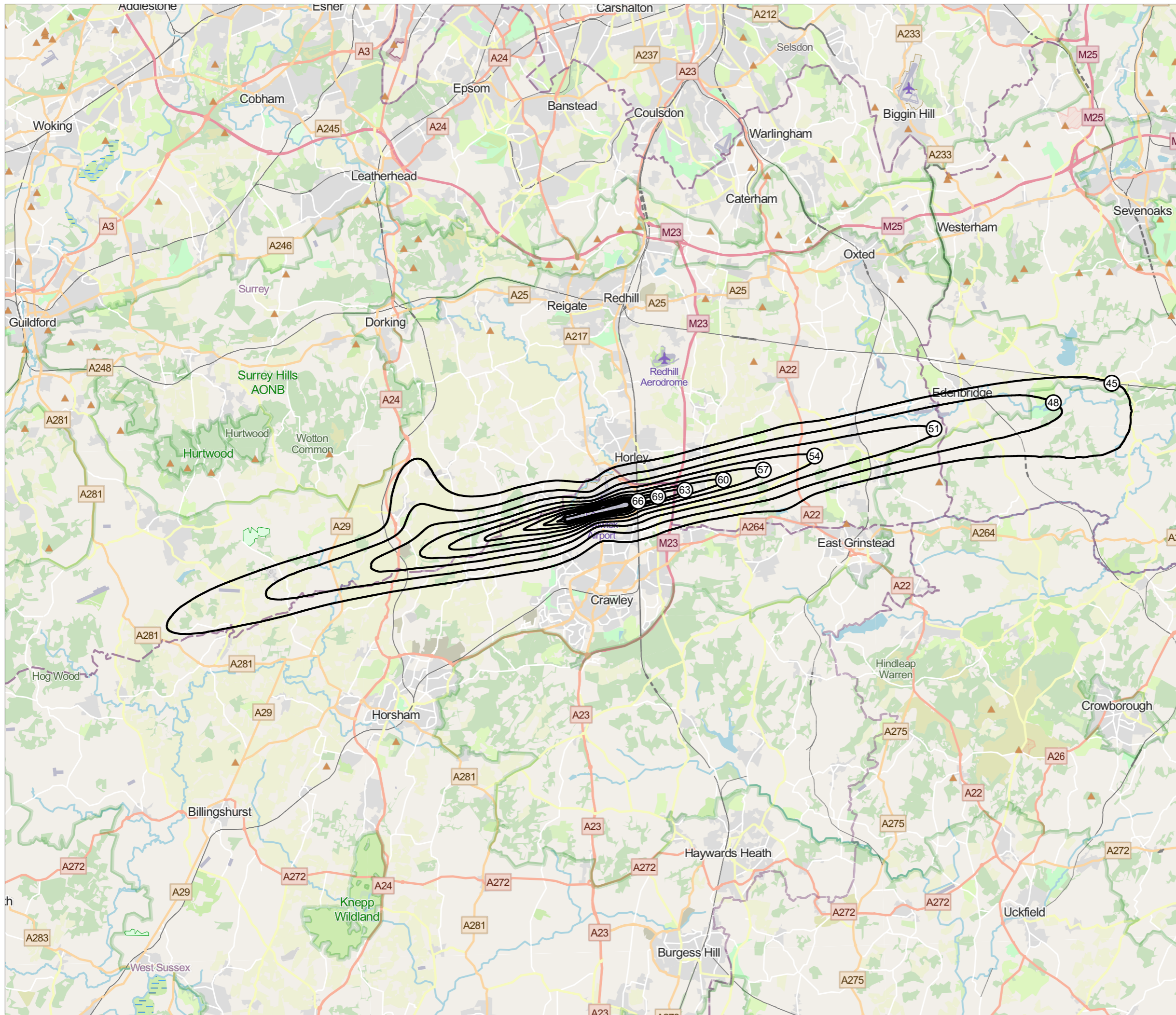
ORIENTATION 	DRAWING NO. 14.4.2	REVISION For ES Issue
	DRAWN BY MTC	PM / CHECKED BY SM



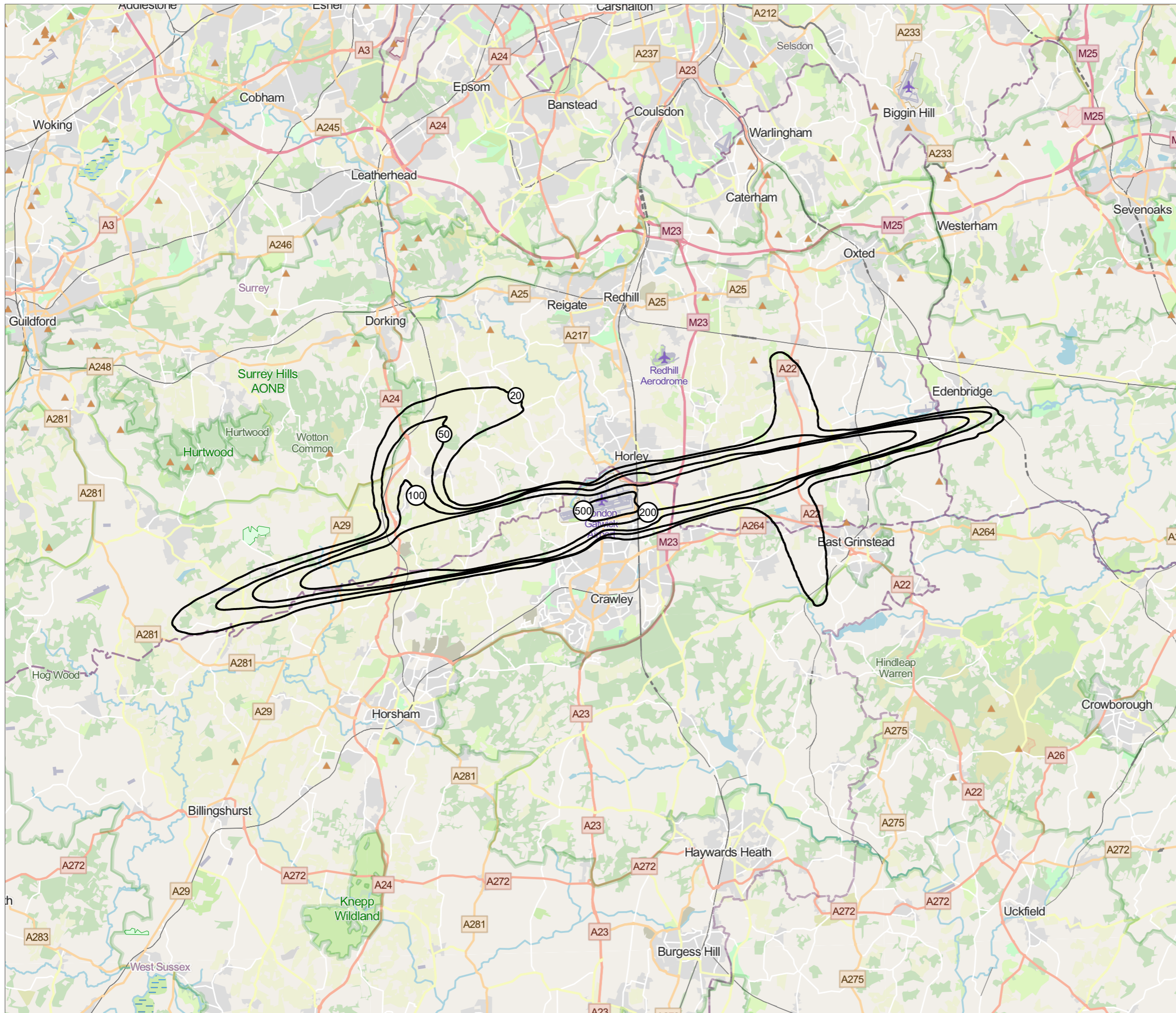
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DOCUMENT		
Environmental Statement		
DRAWING TITLE		
2019 Air Noise Baseline L_{eq} 16 hr		
DATE		
July 2023		
ORIENTATION 	DRAWING NO.	REVISION
	14.6.1	For ES Issue
	DRAWN BY	PM / CHECKED BY
	MTC	SM
SCALE @ A3 1:175,000		
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DOCUMENT		
Environmental Statement		
DRAWING TITLE		
2019 Air Noise Baseline L_{eq} 8 hr Night		
DATE		
July 2023		
ORIENTATION 	DRAWING NO.	REVISION
	14.6.2	For ES Issue
	DRAWN BY	PM / CHECKED BY
	MTC	SM
SCALE @ A3 1:175,000		
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DOCUMENT

Environmental Statement

DRAWING TITLE

2019 Air Noise Baseline N65 Day

DATE

July 2023

ORIENTATION



DRAWING NO.

14.6.3

REVISION

For ES Issue

DRAWN BY

MTC

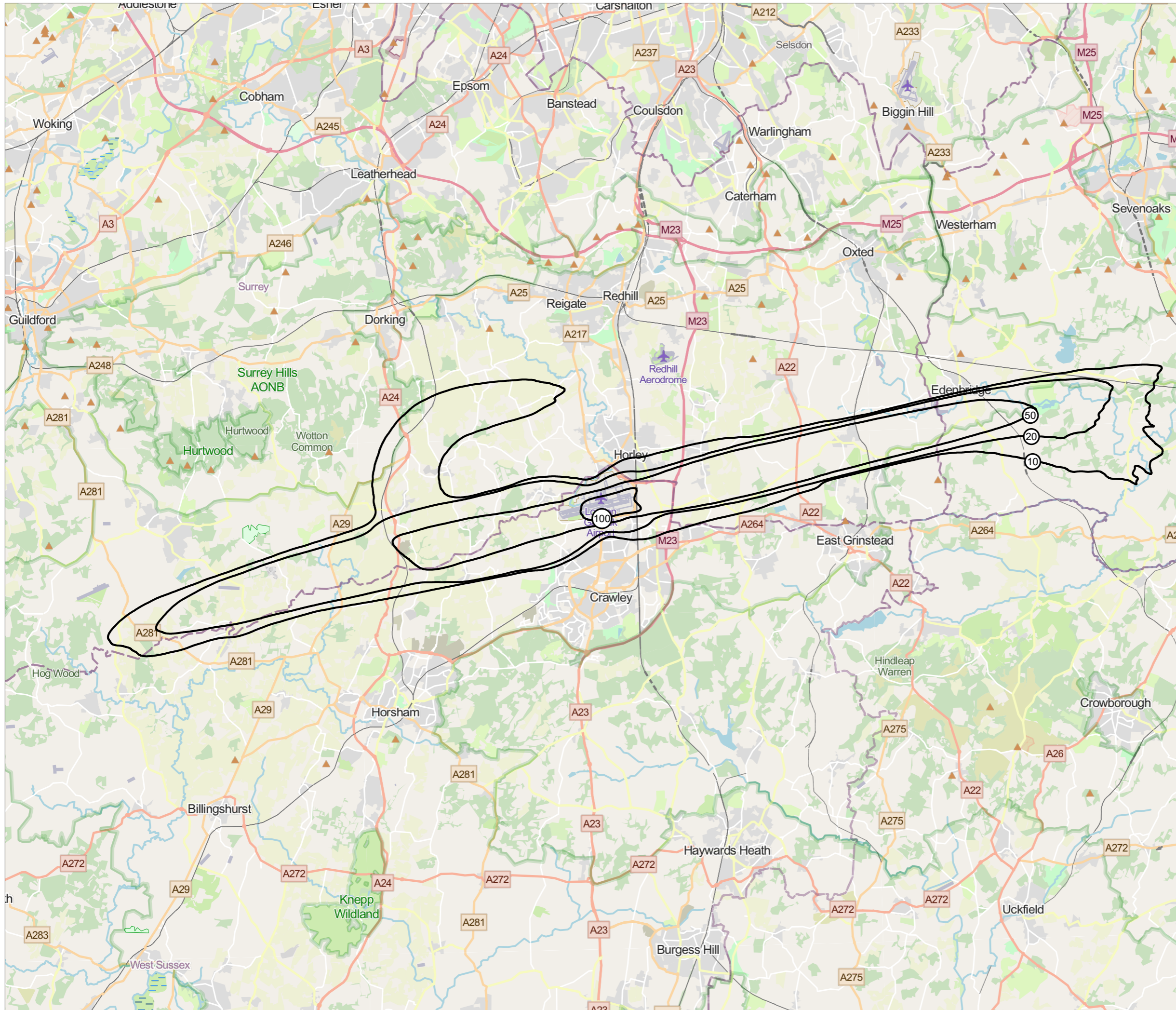
PM / CHECKED BY

SM

SCALE @ A3 1:175,000



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DOCUMENT

Environmental Statement

DRAWING TITLE

2019 Air Noise Baseline N60 Night

DATE

July 2023

ORIENTATION



DRAWING NO.

14.6.4

REVISION

For ES Issue

DRAWN BY

MTC

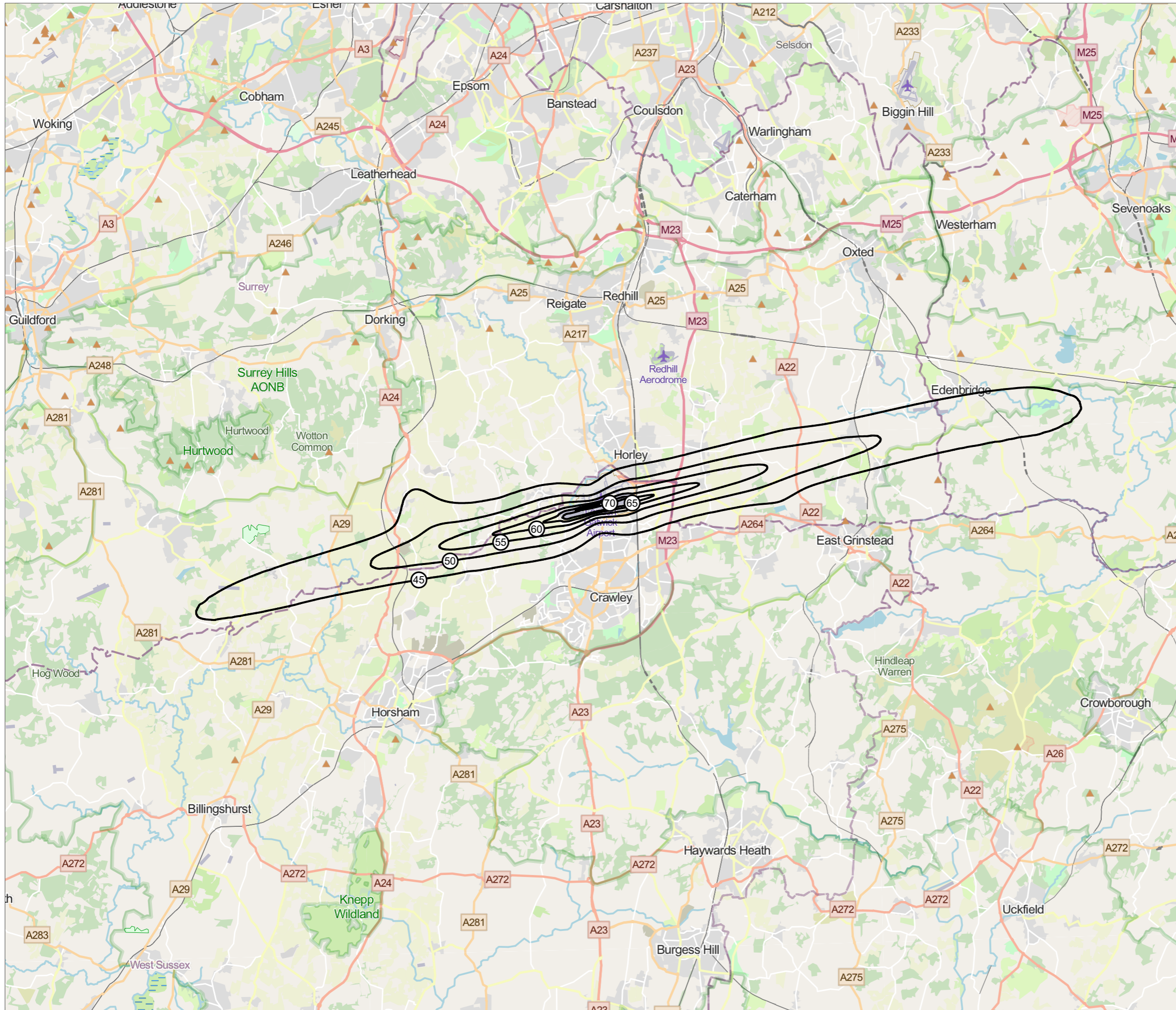
PM / CHECKED BY

SM

SCALE @ A3 1:175,000



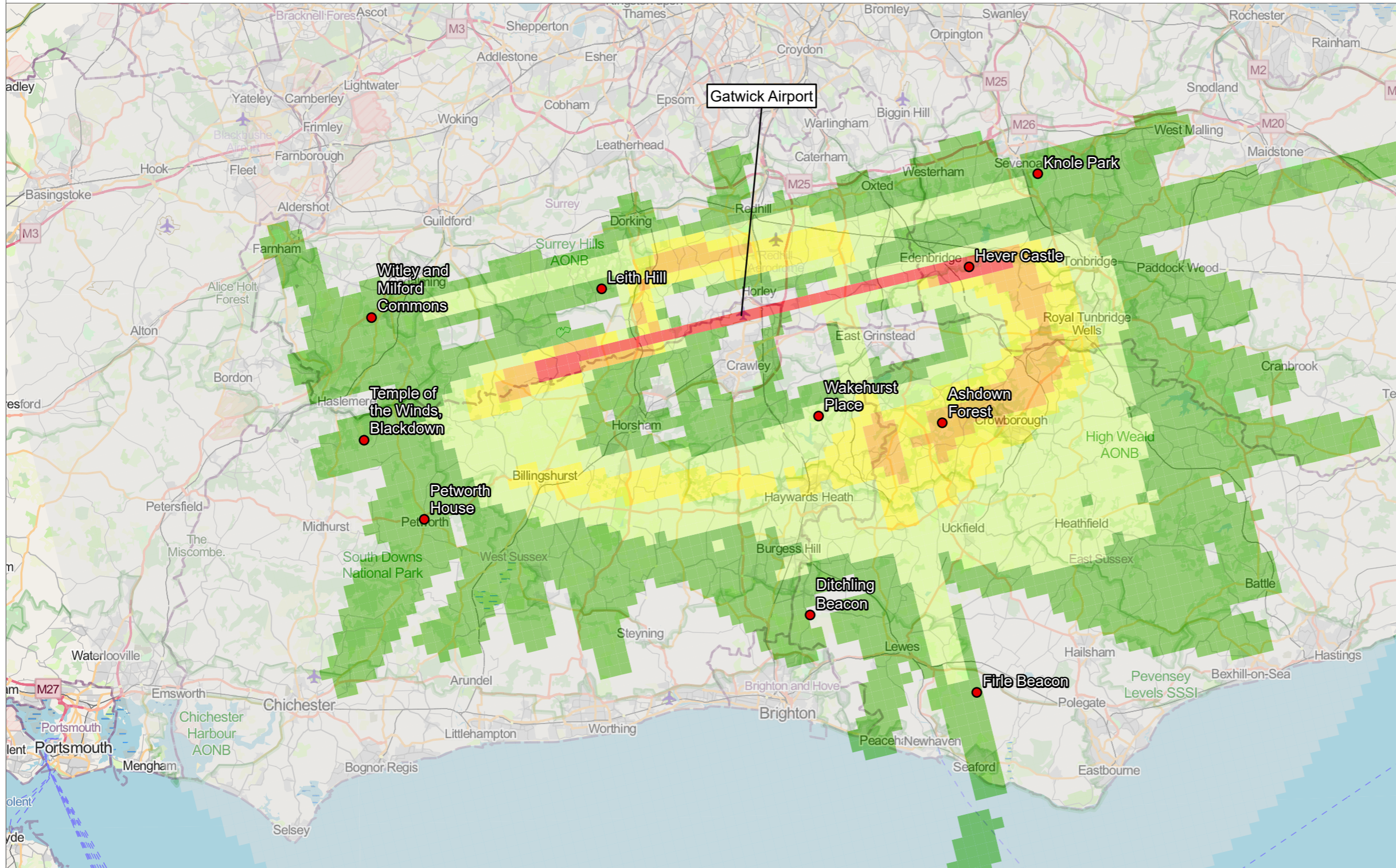
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DOCUMENT		
Environmental Statement		
DRAWING TITLE		
2019 Air Noise Baseline L _{Night} Annual Average Night		
DATE		
July 2023		
ORIENTATION 	DRAWING NO.	REVISION
	14.6.6	For ES Issue
	DRAWN BY	PM / CHECKED BY
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SCALE @ A3 1:400,000		
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KEY

- Landscape Assessment Location
- < 1 Overflight
- 1 - 10 Overflights
- 11 - 50 Overflights
- 51 - 100 Overflights
- 101 - 200 Overflights
- > 200 Overflights



DOCUMENT

Environmental Statement

DRAWING TITLE

2019 Baseline Gatwick Overflights

DATE

July 2023

ORIENTATION



DRAWING NO.

14.6.7

REVISION

For ES Issue

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WB

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SM

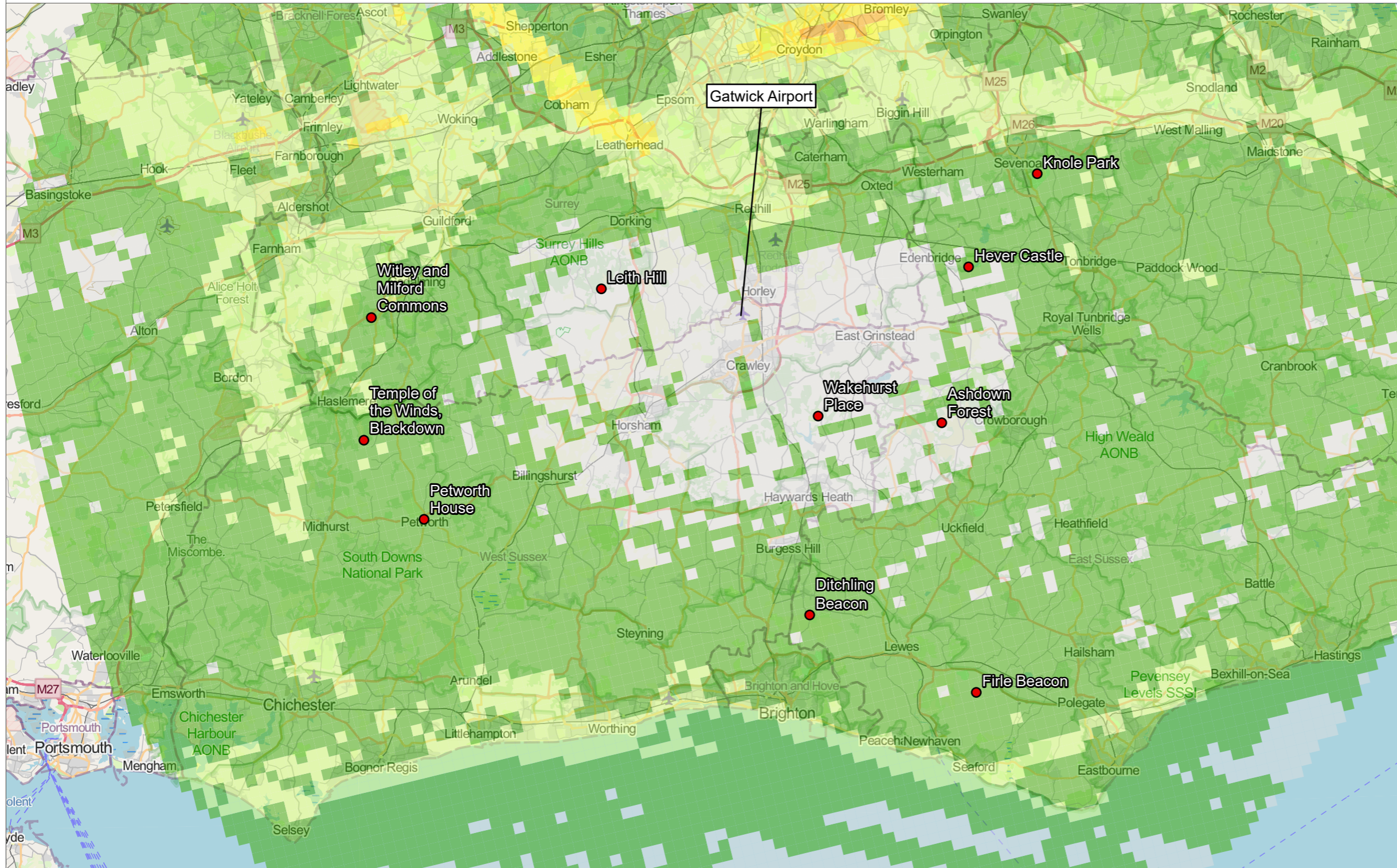
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KEY

- Landscape Assessment Location
- < 1 Overflight
- 1 - 10 Overflights
- 11 - 50 Overflights
- 51 - 100 Overflights
- 101 - 200 Overflights
- > 200 Overflights



DOCUMENT

Environmental Statement

DRAWING TITLE

2019 Baseline Non-Gatwick Overflights

DATE

July 2023

ORIENTATION



DRAWING NO.

14.6.8

REVISION

For ES Issue

DRAWN BY

WB

PM / CHECKED BY

SM

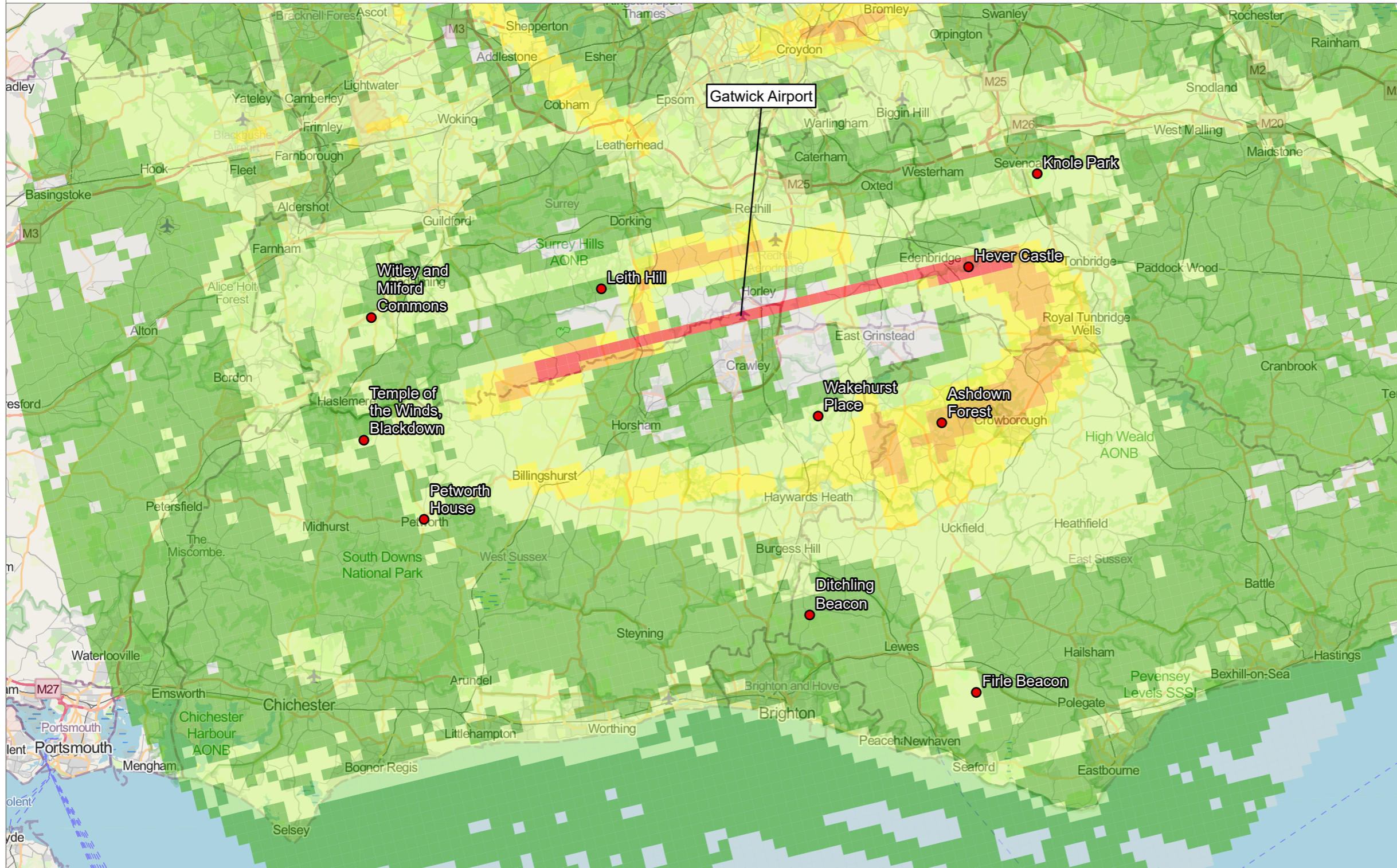
SCALE @ A3 1:175,000



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KEY

- Landscape Assessment Location
- < 1 Overflight
- 1 - 10 Overflights
- 11 - 50 Overflights
- 51 - 100 Overflights
- 101 - 200 Overflights
- > 200 Overflights



DOCUMENT

Environmental Statement

DRAWING TITLE

2019 Baseline All Overflights

DATE

July 2023

ORIENTATION



DRAWING NO.

14.6.9

REVISION

For ES Issue

DRAWN BY

WB

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SM

SCALE @ A3 1:175,000



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KEY

○ Receptors

dB Level

- 55 L_{A10, 18HR} dB
- 60 L_{A10, 18HR} dB
- 65 L_{A10, 18HR} dB
- 68 L_{A10, 18HR} dB

Number Name

- 1 The Crescent East
- 2 The Crescent West
- 3 Woodroyd Gardens
- 4 Cheyne Walk
- 5 Longbridge Road East
- 6 Longbridge Road West
- 7 Povey Cross Road
- 8 Meadowcroft Close
- 9 B2036 Balcombe Road
- 10 Riverside Park North
- 11 Riverside Park Centre
- 12 Riverside Park South
- 13 First Point Offices
- 14 Premier Inn
- 15 Longbridge Road Centre East
- 16 Longbridge Road Centre
- 17 Longbridge Road Centre West

DOCUMENT

Environmental Statement

DRAWING TITLE

2018 Baseline Road Traffic Noise Levels Daytime

DATE

July 2023

ORIENTATION



DRAWING NO.

14.6.10

REVISION

For ES Issue

DRAWN BY

MTC

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SM

SCALE @ A3 1:7,500



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KEY

○ Receptors

dB Level

- 40 L_{Aeq}, Night dB
- 45 L_{Aeq}, Night dB
- 50 L_{Aeq}, Night dB
- 55 L_{Aeq}, Night dB

Number Name

- 1 The Crescent East
- 2 The Crescent West
- 3 Woodroyd Gardens
- 4 Cheyne Walk
- 5 Longbridge Road East
- 6 Longbridge Road West
- 7 Povey Cross Road
- 8 Meadowcroft Close
- 9 B2036 Balcombe Road
- 10 Riverside Park North
- 11 Riverside Park Centre
- 12 Riverside Park South
- 13 First Point Offices
- 14 Premier Inn
- 15 Longbridge Road Centre East
- 16 Longbridge Road Centre
- 17 Longbridge Road Centre West

DOCUMENT

Environmental Statement

DRAWING TITLE

2018 Baseline Road Traffic Noise Levels
Night Time

DATE

July 2023

ORIENTATION



DRAWING NO.

14.6.11

REVISION

For ES
Issue

DRAWN BY

MTC

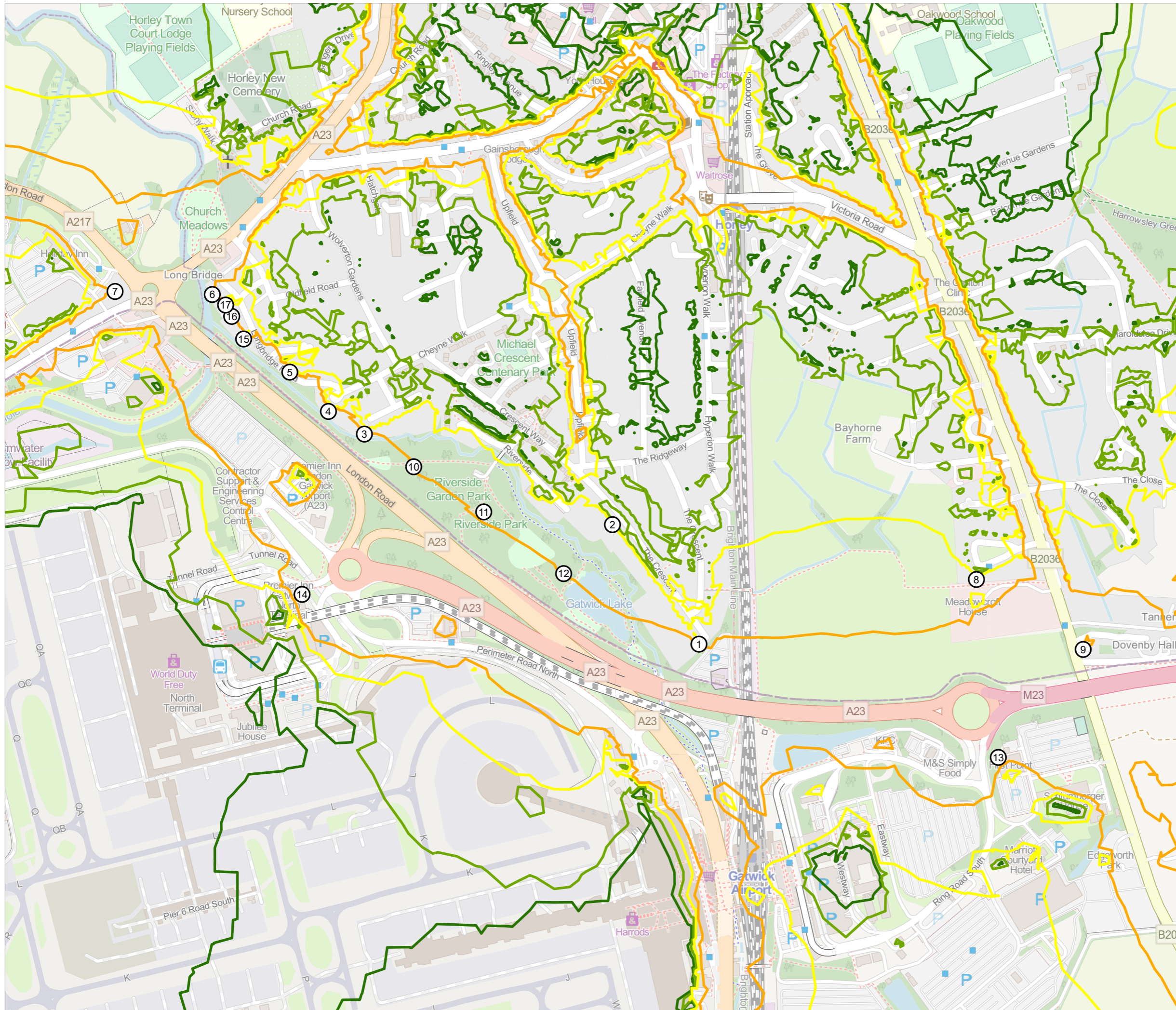
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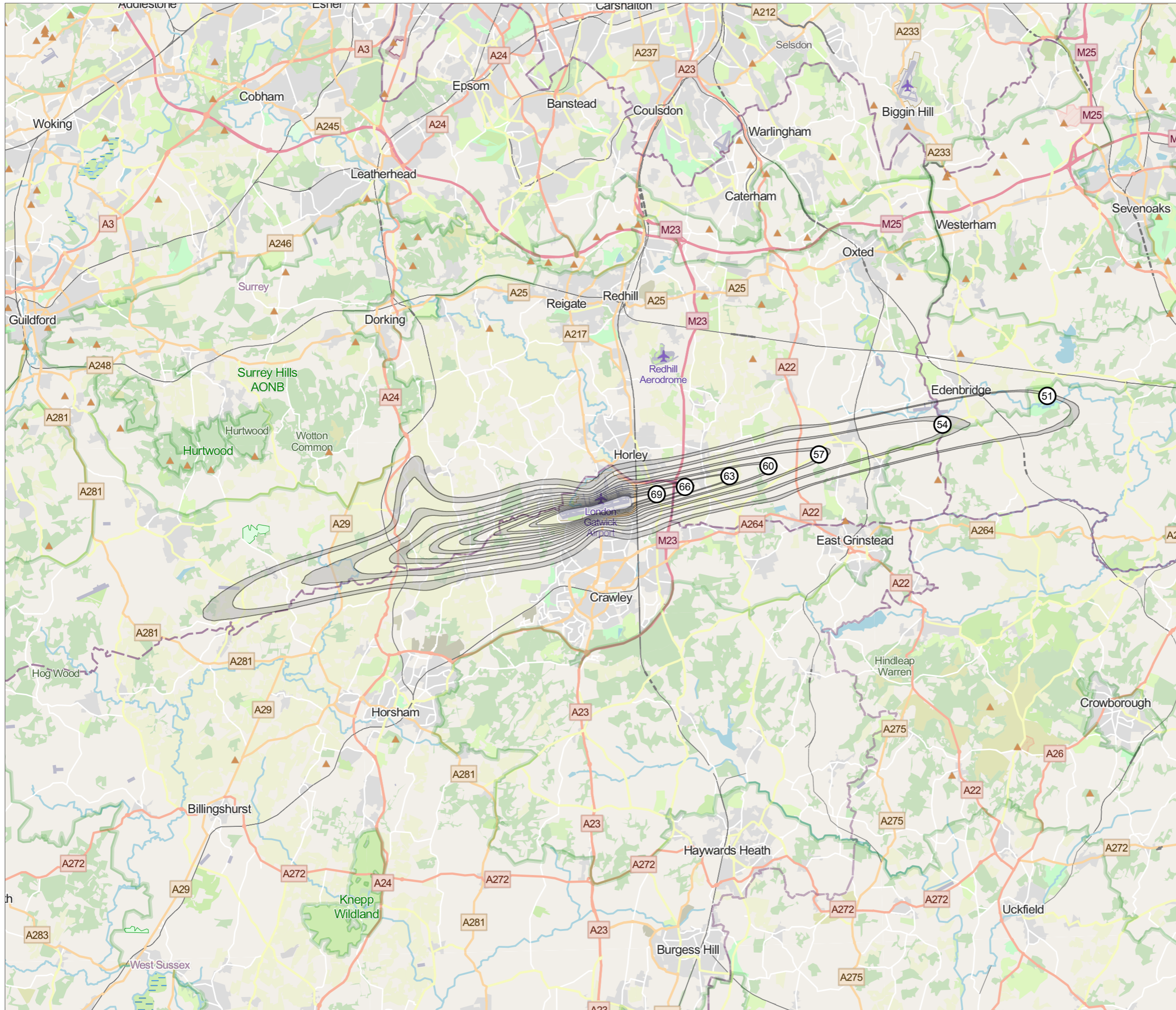
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SCALE @ A3 1:7,500



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KEY

Central Case and Slower Transition Fleet Case Range

DOCUMENT

Environmental Statement

DRAWING TITLE

2032 Air Noise Baseline L_{eq} 16 hr

DATE

July 2023

ORIENTATION



DRAWING NO.

14.6.12

REVISION

For ES Issue

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MTC

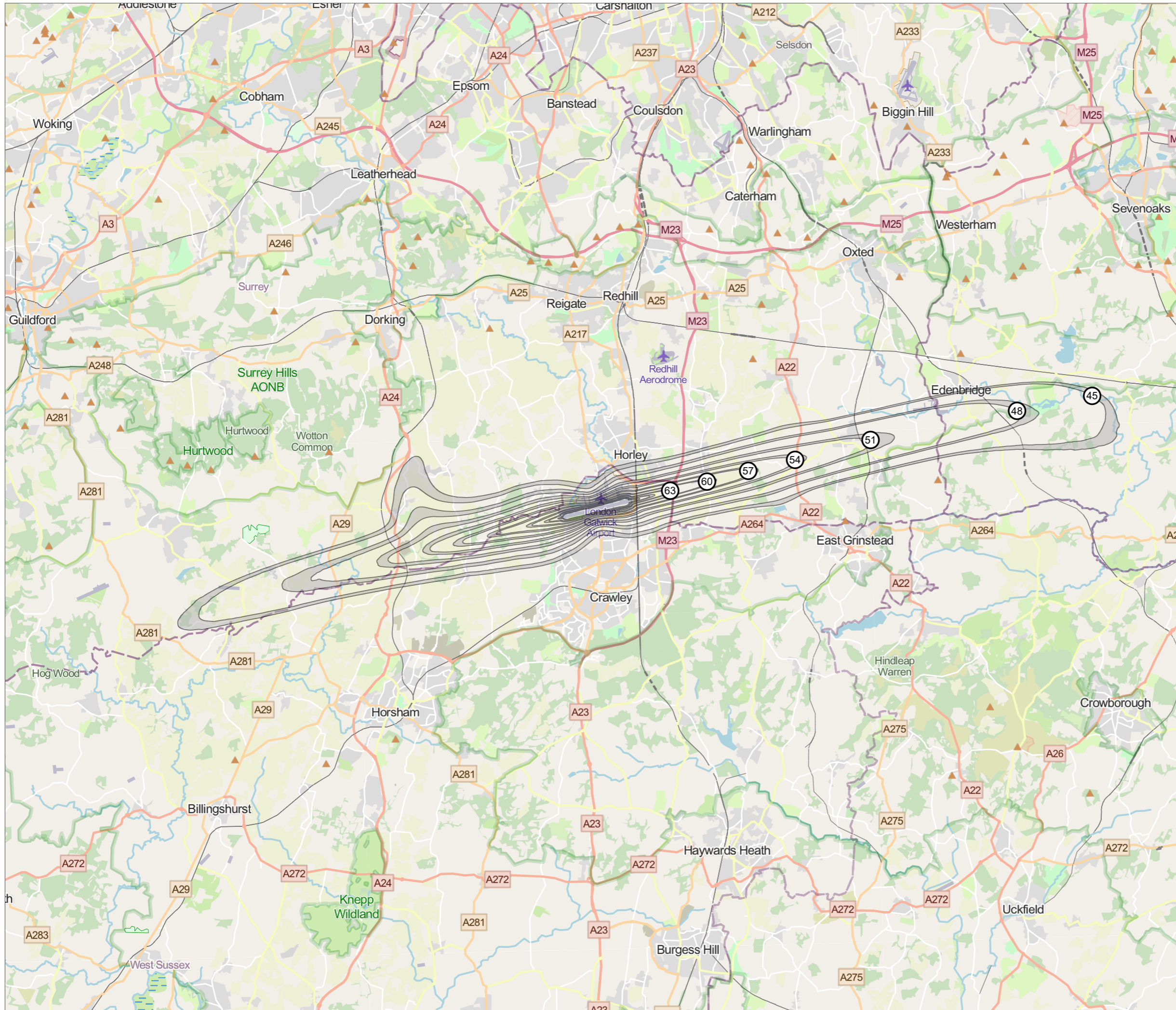
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SCALE @ A3 1:175,000



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KEY

Central Case and Slower Transition Fleet Case Range

DOCUMENT

Environmental Statement

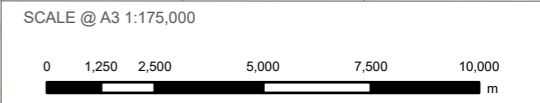
DRAWING TITLE

2032 Air Noise Baseline L_{eq} 8 hr Night

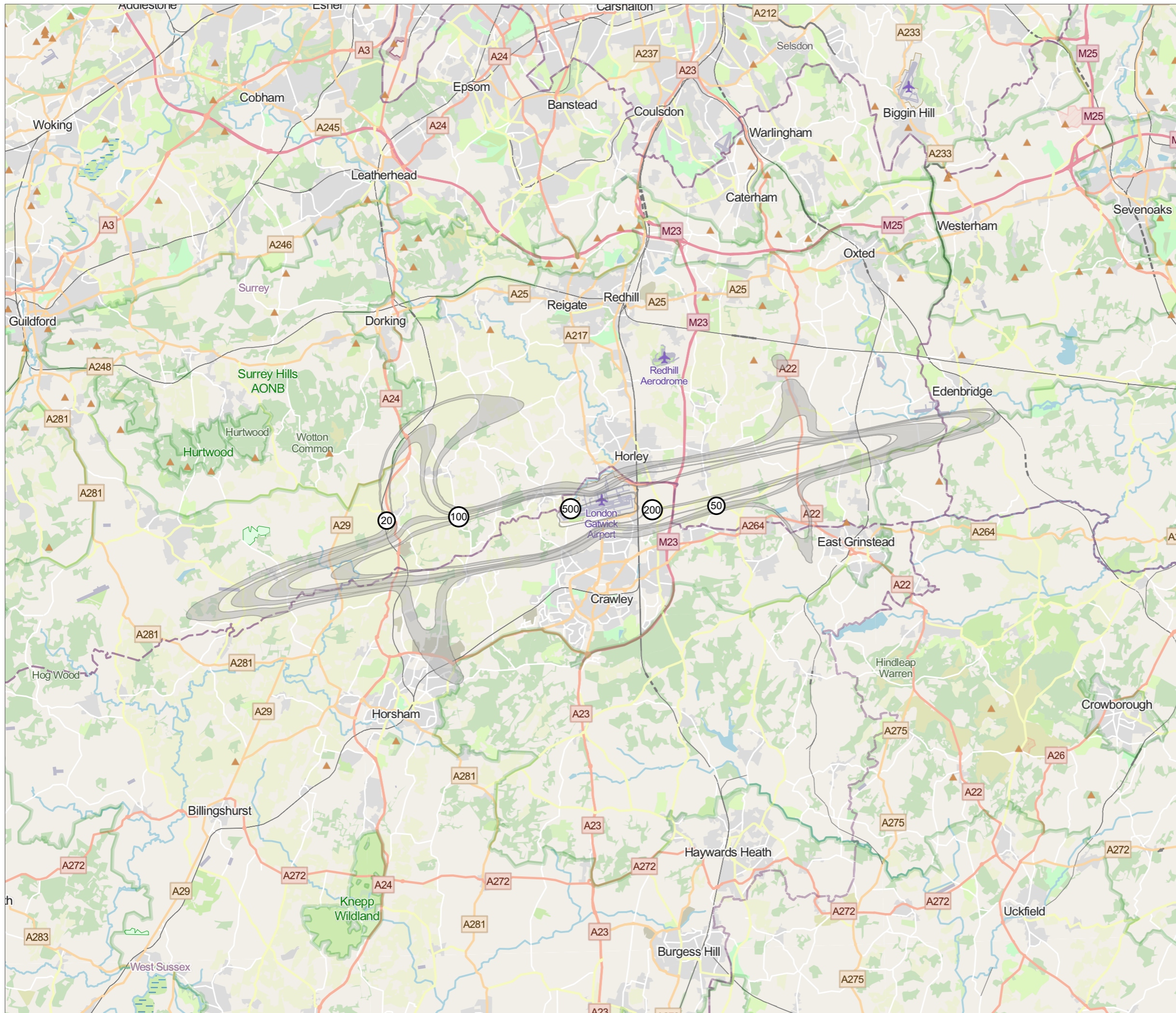
DATE

July 2023

ORIENTATION 	DRAWING NO.	REVISION
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	DRAWN BY	PM / CHECKED BY
	MTC	SM

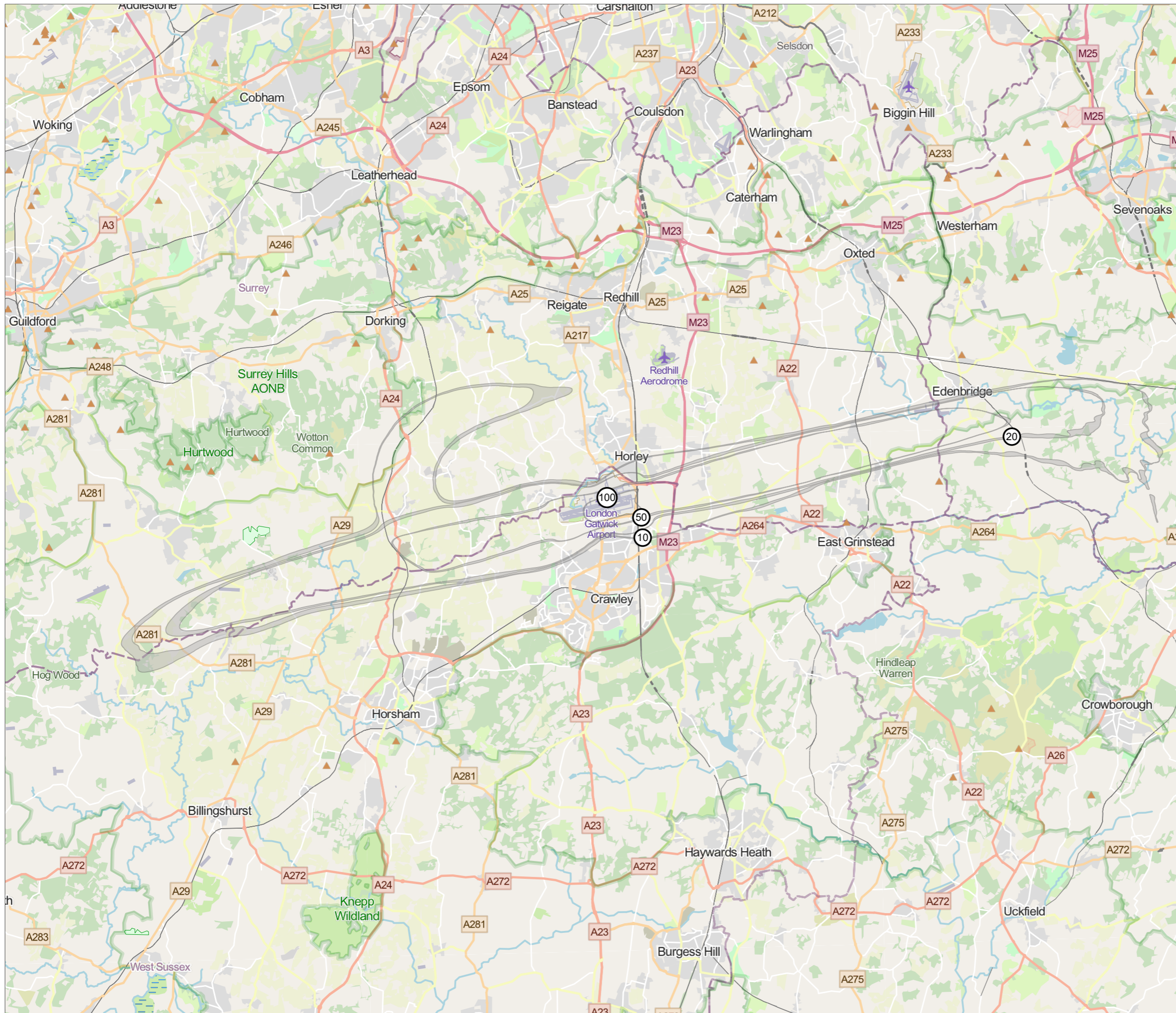


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KEY
 [Grey shaded area] Central Case and Slower Transition Fleet Case Range

DOCUMENT		
Environmental Statement		
DRAWING TITLE		
2032 Air Noise Baseline N65 Day		
DATE		
July 2023		
ORIENTATION 	DRAWING NO.	REVISION
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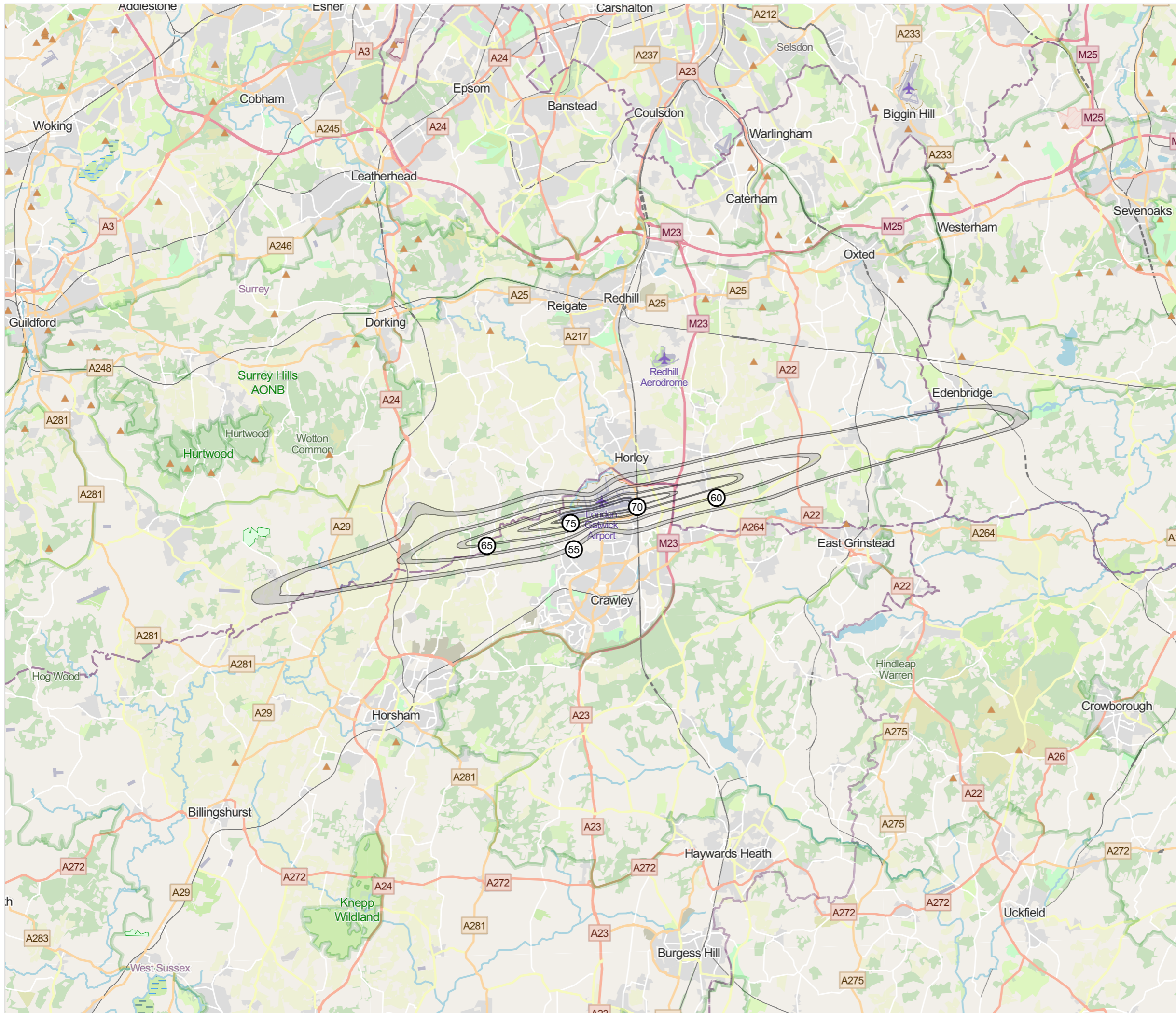


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 [Grey shaded area] Central Case and Slower Transition Fleet Case Range

DOCUMENT		
Environmental Statement		
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2032 Air Noise Baseline N60 Night		
DATE		
July 2023		
ORIENTATION 	DRAWING NO.	REVISION
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KEY

Central Case and Slower Transition Fleet Case Range



DOCUMENT

Environmental Statement

DRAWING TITLE

2032 Air Noise Baseline L_{den}
Annual Average 24 Hour

DATE

July 2023

ORIENTATION



DRAWING NO.

14.6.16

REVISION

For ES
Issue

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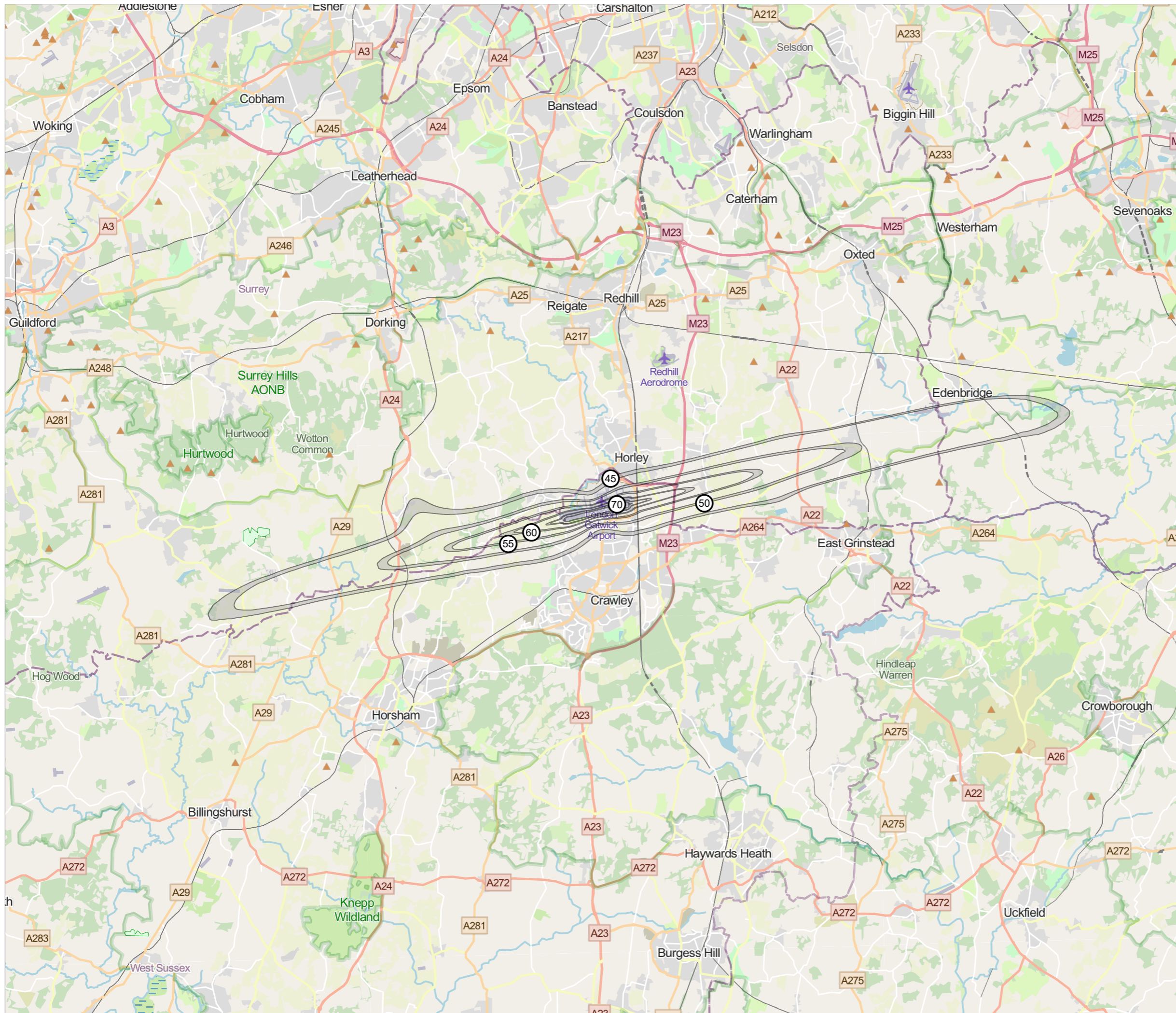
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KEY

Central Case and Slower Transition Fleet Case Range



DOCUMENT

Environmental Statement

DRAWING TITLE

2032 Air Noise Baseline L_{Night} Annual Average Night

DATE

July 2023

ORIENTATION



DRAWING NO.

14.6.17

REVISION

For ES Issue

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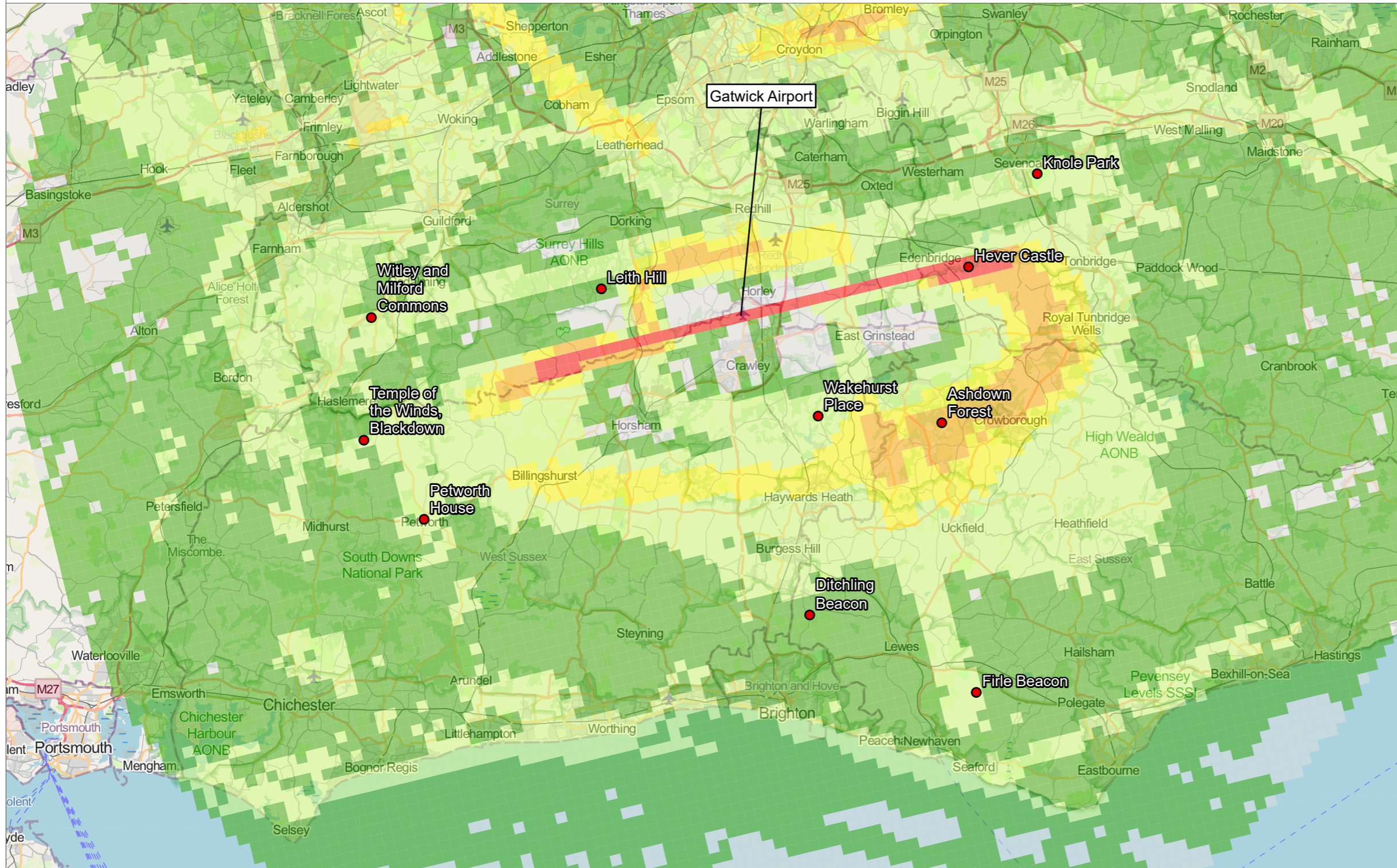
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KEY

- Landscape Assessment Location
- < 1 Overflight
- 1 - 10 Overflights
- 11 - 50 Overflights
- 51 - 100 Overflights
- 101 - 200 Overflights
- 201 - 500 Overflights



DOCUMENT
Environmental Statement

DRAWING TITLE
2032 Baseline All Overflights

DATE
July 2023

	ORIENTATION	DRAWING NO. 14.6.18	REVISION For ES Issue
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KEY

○ Receptors

dB Level

- 55 L_{A10, 18HR} dB
- 60 L_{A10, 18HR} dB
- 65 L_{A10, 18HR} dB
- 68 L_{A10, 18HR} dB

Number Name

- 1 The Crescent East
- 2 The Crescent West
- 3 Woodroyd Gardens
- 4 Cheyne Walk
- 5 Longbridge Road East
- 6 Longbridge Road West
- 7 Povey Cross Road
- 8 Meadowcroft Close
- 9 B2036 Balcombe Road
- 10 Riverside Park North
- 11 Riverside Park Centre
- 12 Riverside Park South
- 13 First Point Offices
- 14 Premier Inn
- 15 Longbridge Road Centre East
- 16 Longbridge Road Centre
- 17 Longbridge Road Centre West

DOCUMENT

Environmental Statement

DRAWING TITLE

2032 Road Traffic Business as Usual Noise Levels During the Daytime

DATE

July 2023

ORIENTATION



DRAWING NO.

14.6.19

REVISION

For ES Issue

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KEY

○ Receptors

dB Level

- 40 L_{Aeq}, Night dB
- 45 L_{Aeq}, Night dB
- 50 L_{Aeq}, Night dB
- 55 L_{Aeq}, Night dB

Number Name

- 1 The Crescent East
- 2 The Crescent West
- 3 Woodroyd Gardens
- 4 Cheyne Walk
- 5 Longbridge Road East
- 6 Longbridge Road West
- 7 Povey Cross Road
- 8 Meadowcroft Close
- 9 B2036 Balcombe Road
- 10 Riverside Park North
- 11 Riverside Park Centre
- 12 Riverside Park South
- 13 First Point Offices
- 14 Premier Inn
- 15 Longbridge Road Centre East
- 16 Longbridge Road Centre
- 17 Longbridge Road Centre West

DOCUMENT

Environmental Statement

DRAWING TITLE

2032 Road Traffic Business as Usual Noise Levels During the Night Time

DATE

July 2023

ORIENTATION



DRAWING NO.

14.6.20

REVISION

For ES Issue

DRAWN BY

MTC

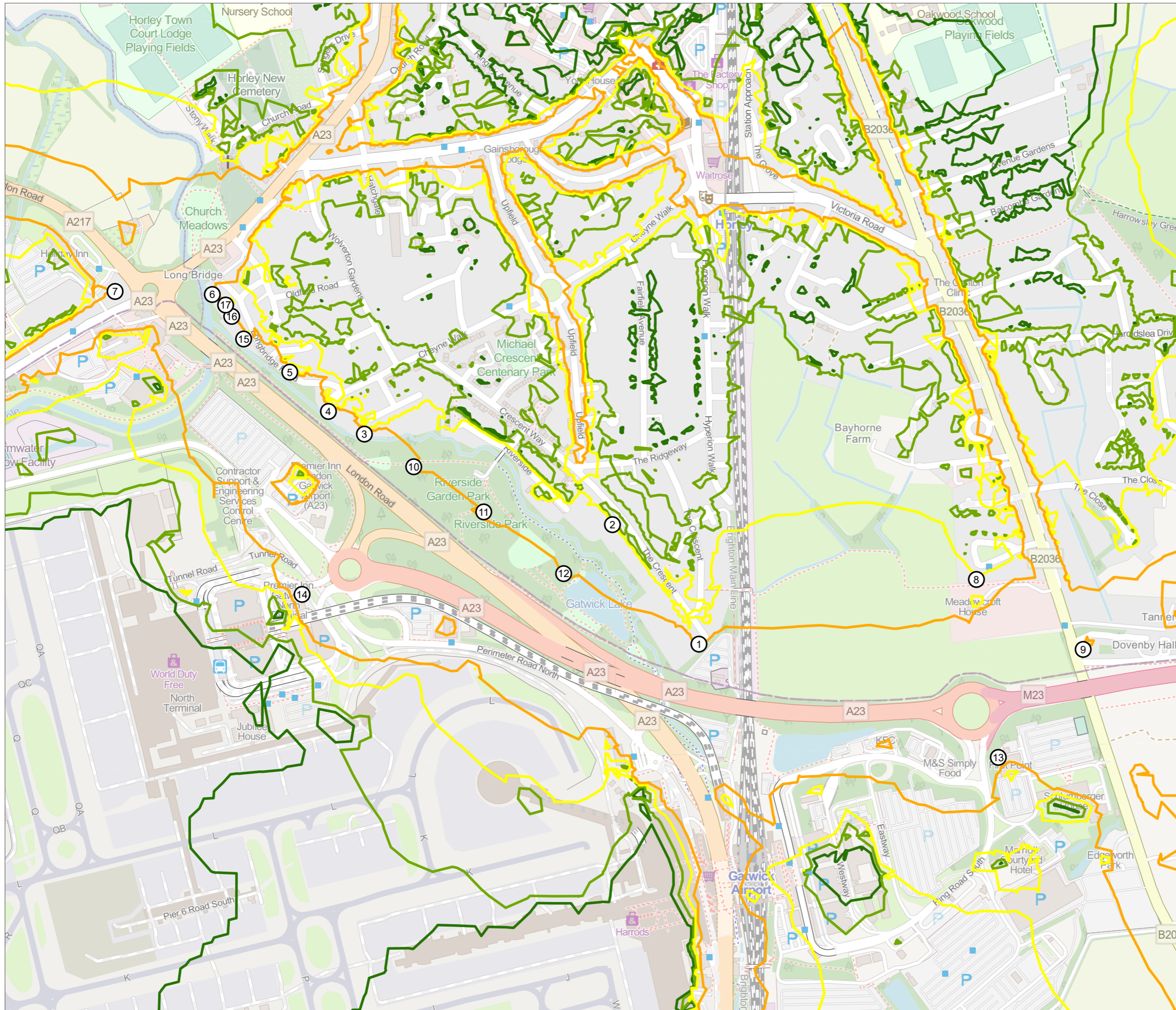
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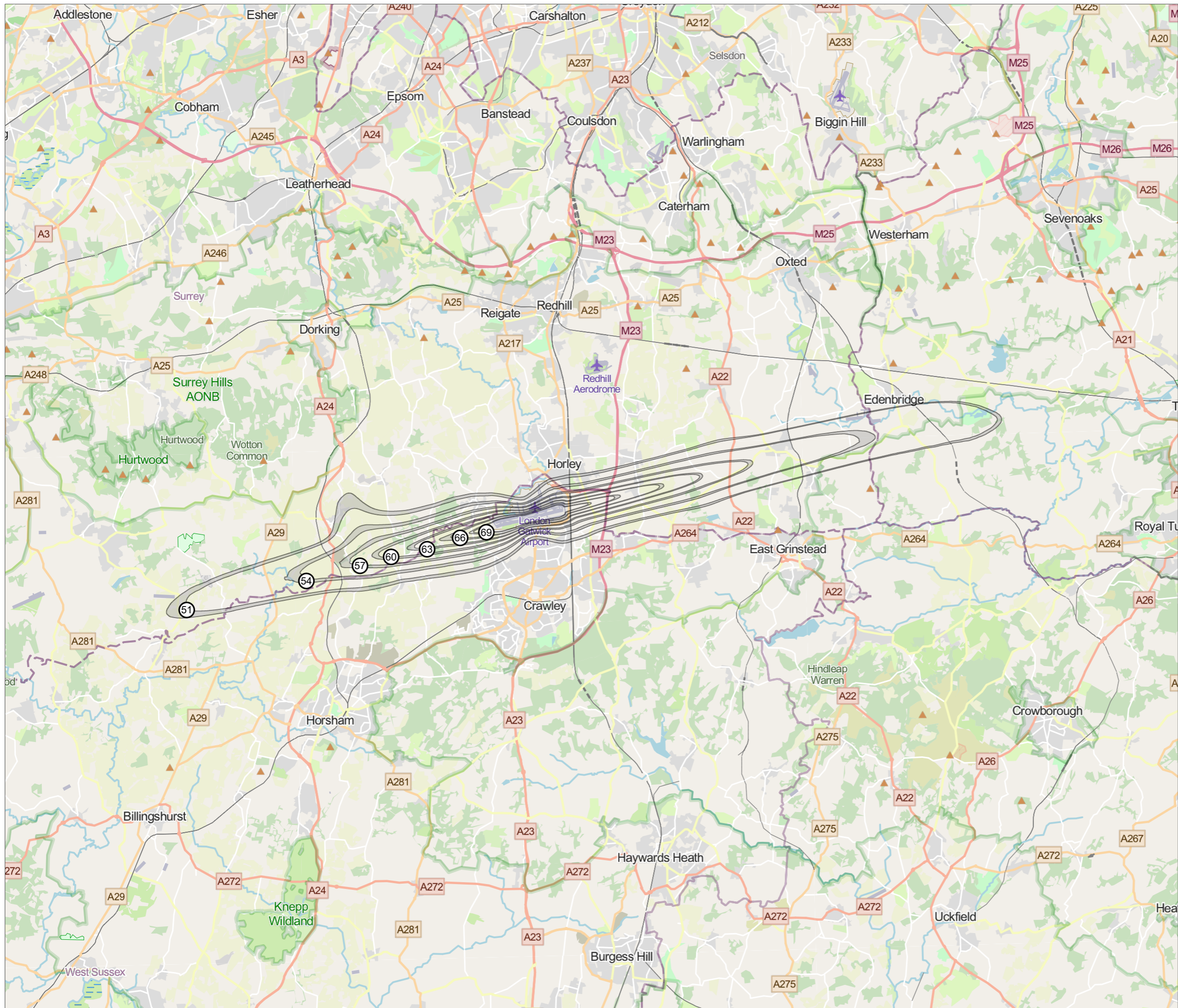


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KEY

Central Case and Slower Transition Fleet Case Range



DOCUMENT

Environmental Statement

DRAWING TITLE

2038 Air Noise Baseline $L_{eq} 16 \text{ hr}$

DATE

July 2023

ORIENTATION



DRAWING NO.

14.6.21

REVISION

For ES Issue

DRAWN BY

MTC

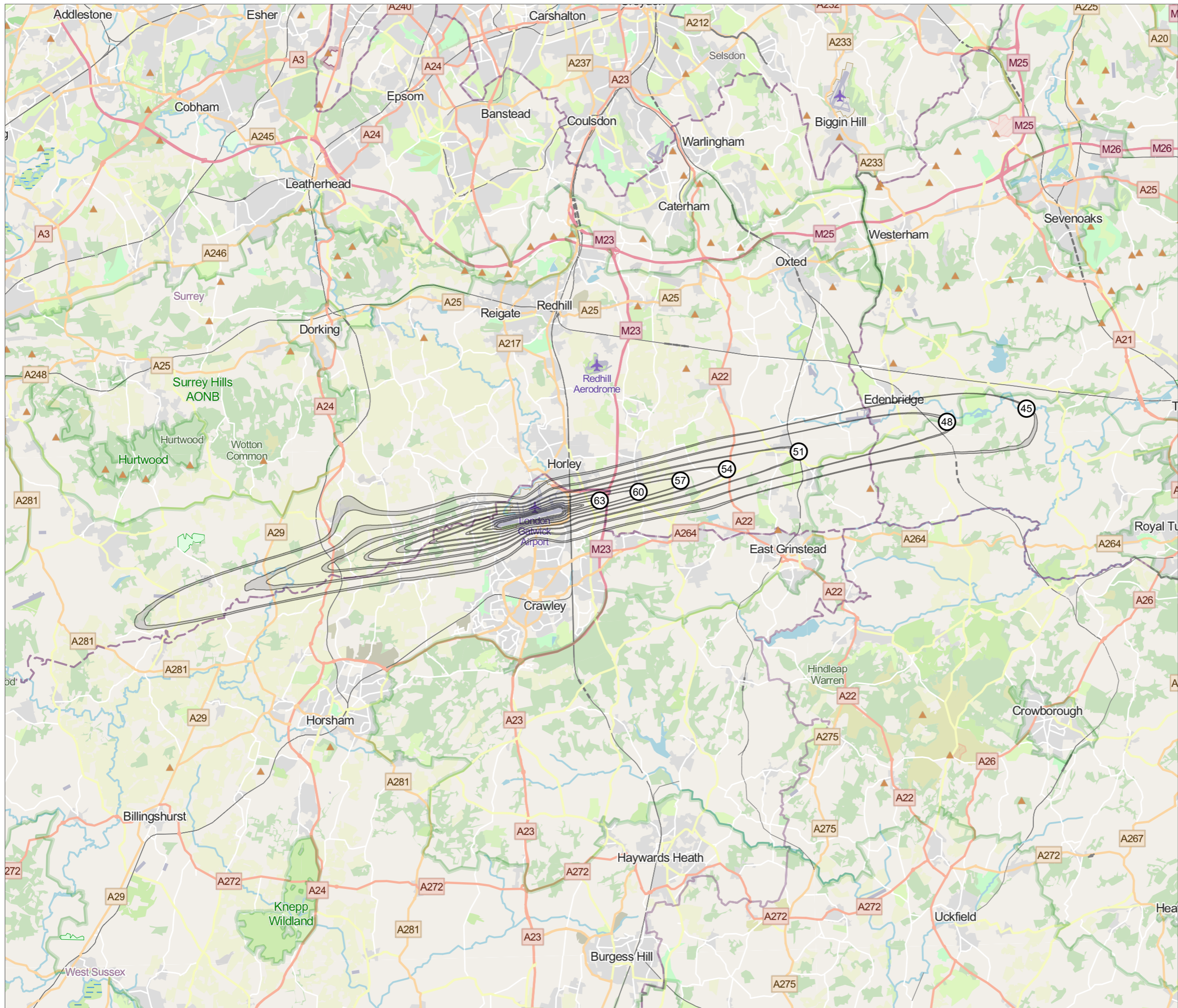
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KEY

Central Case and Slower Transition Fleet Case Range

DOCUMENT

Environmental Statement

DRAWING TITLE

2038 Air Noise Baseline, L_{eq} , 8 hr Night

DATE

July 2023

ORIENTATION



DRAWING NO.

14.6.22

REVISION

For ES Issue

DRAWN BY

MTC

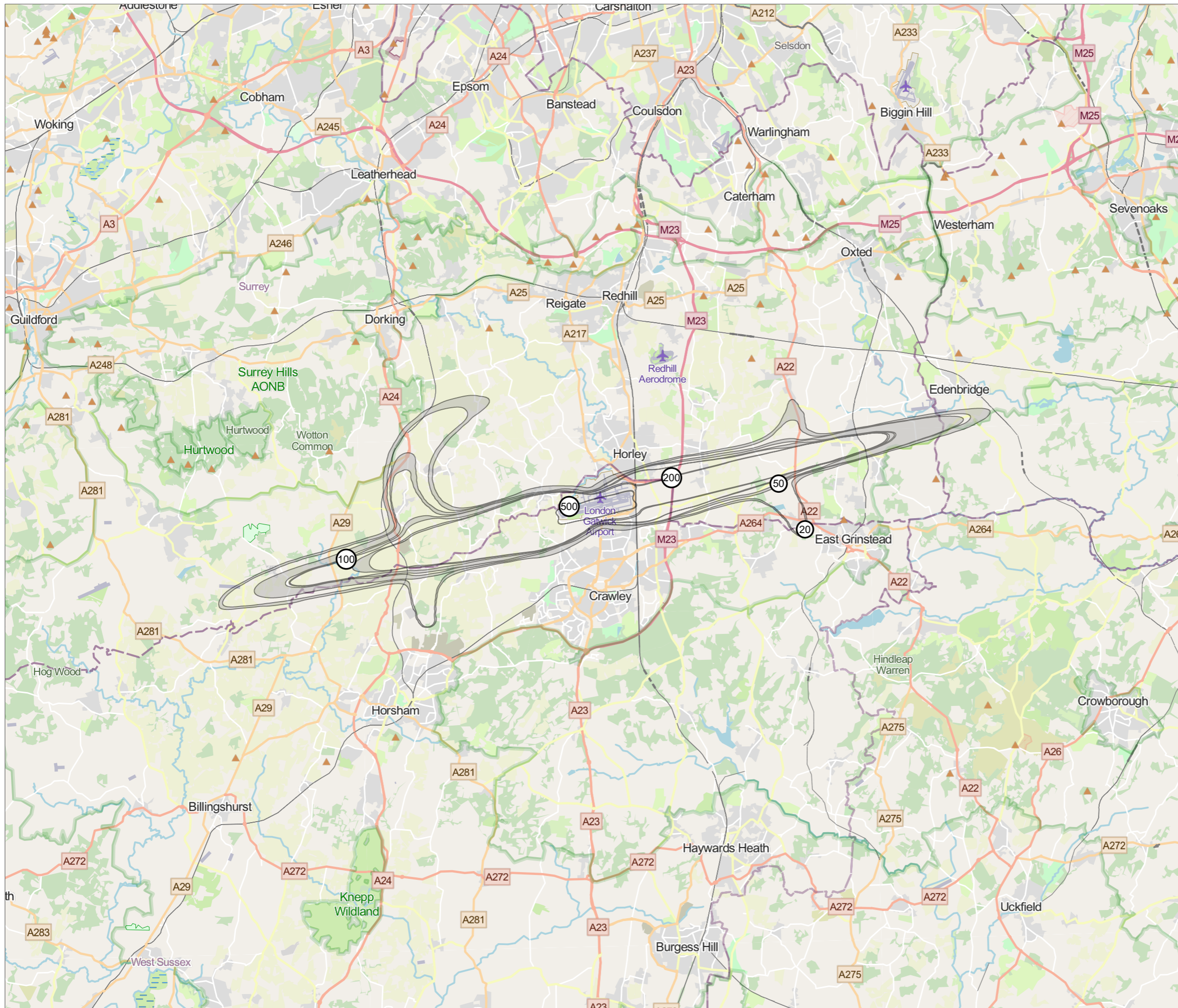
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SCALE @ A3 1:175,000



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KEY

Central Case and Slower Transition Fleet Case Range

DOCUMENT

Environmental Statement

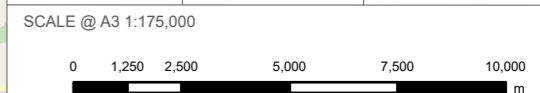
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2038 Air Noise Baseline N65 Day

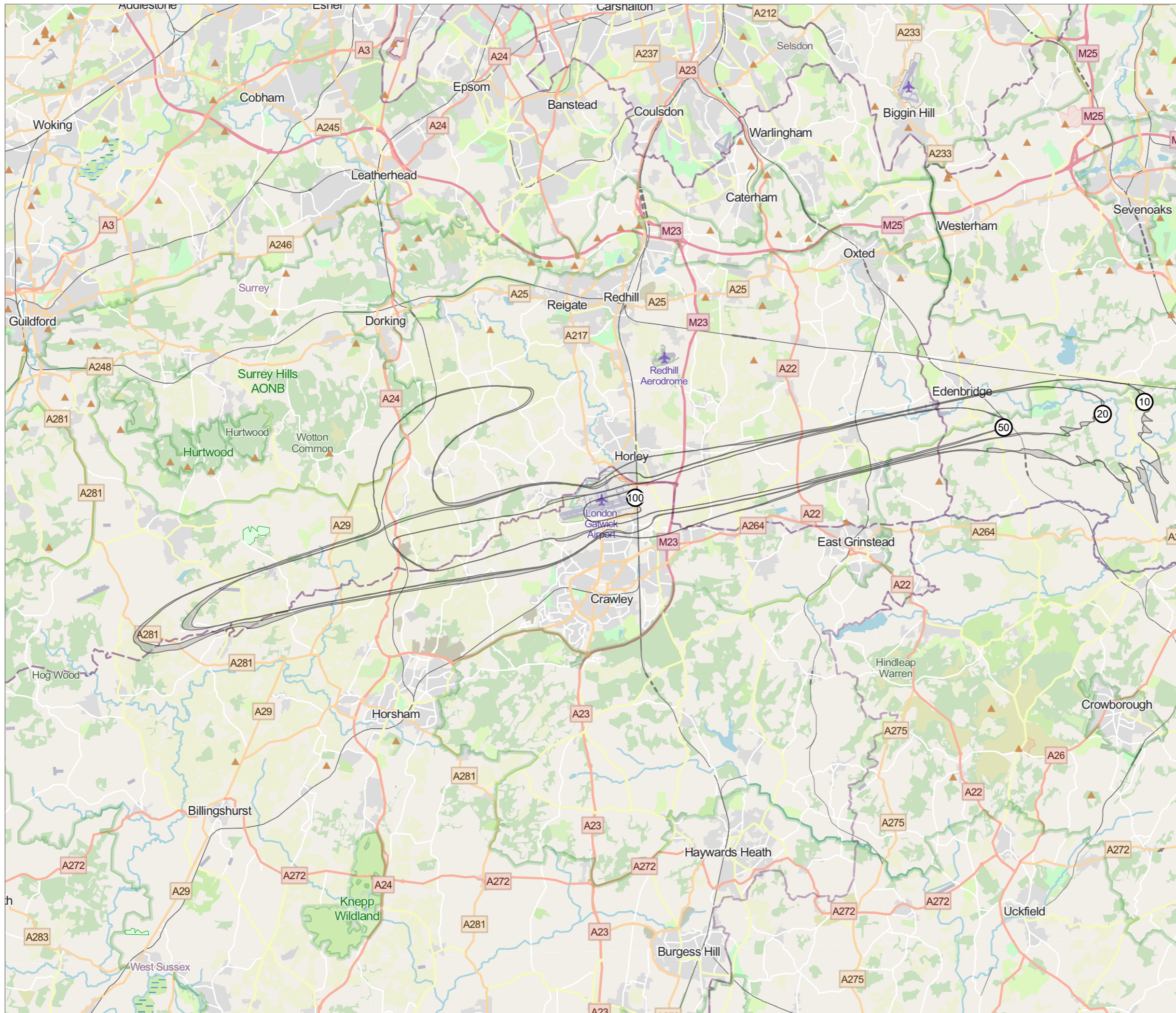
DATE

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	DRAWN BY	PM / CHECKED BY	
	MTC	SM	

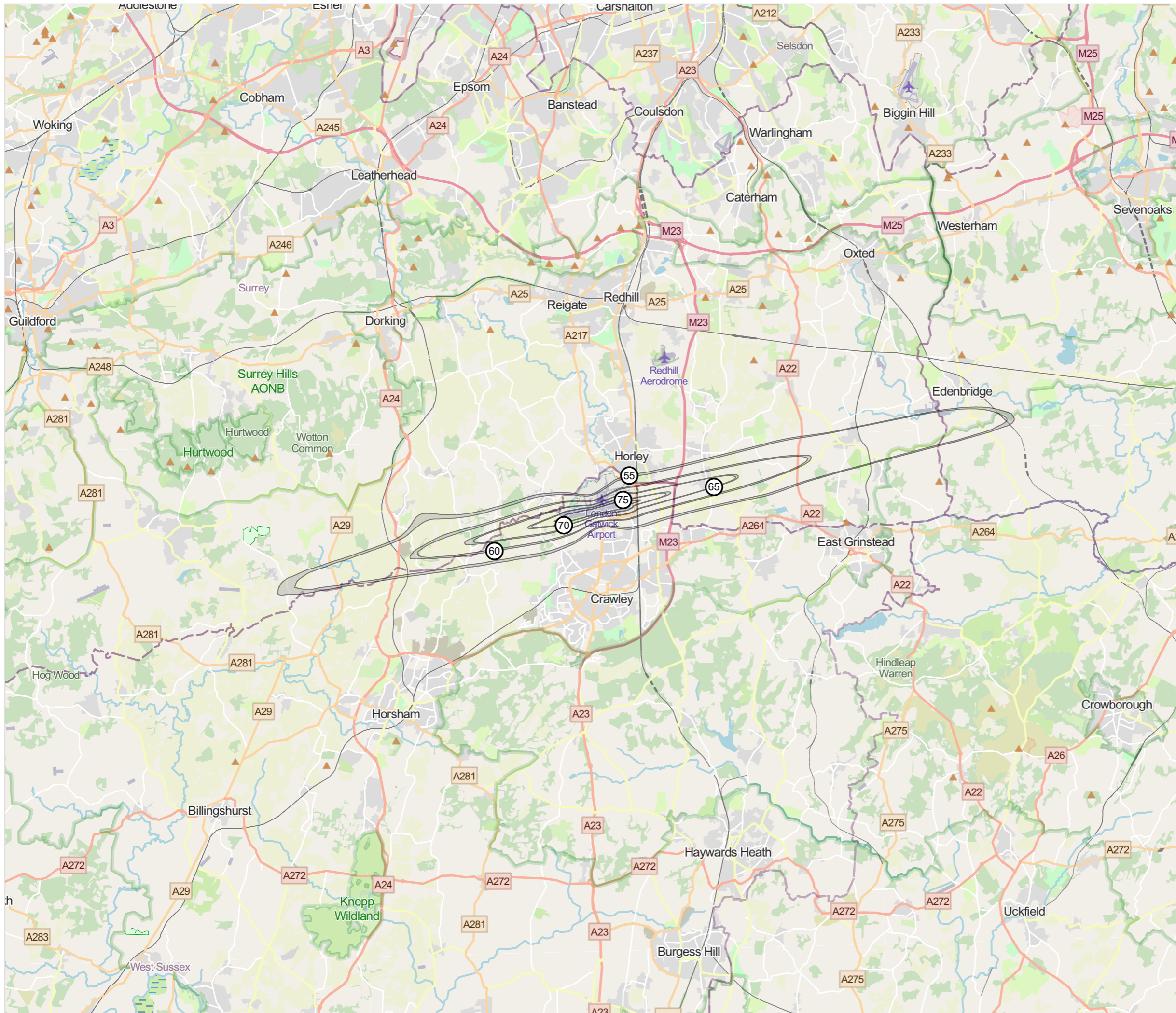


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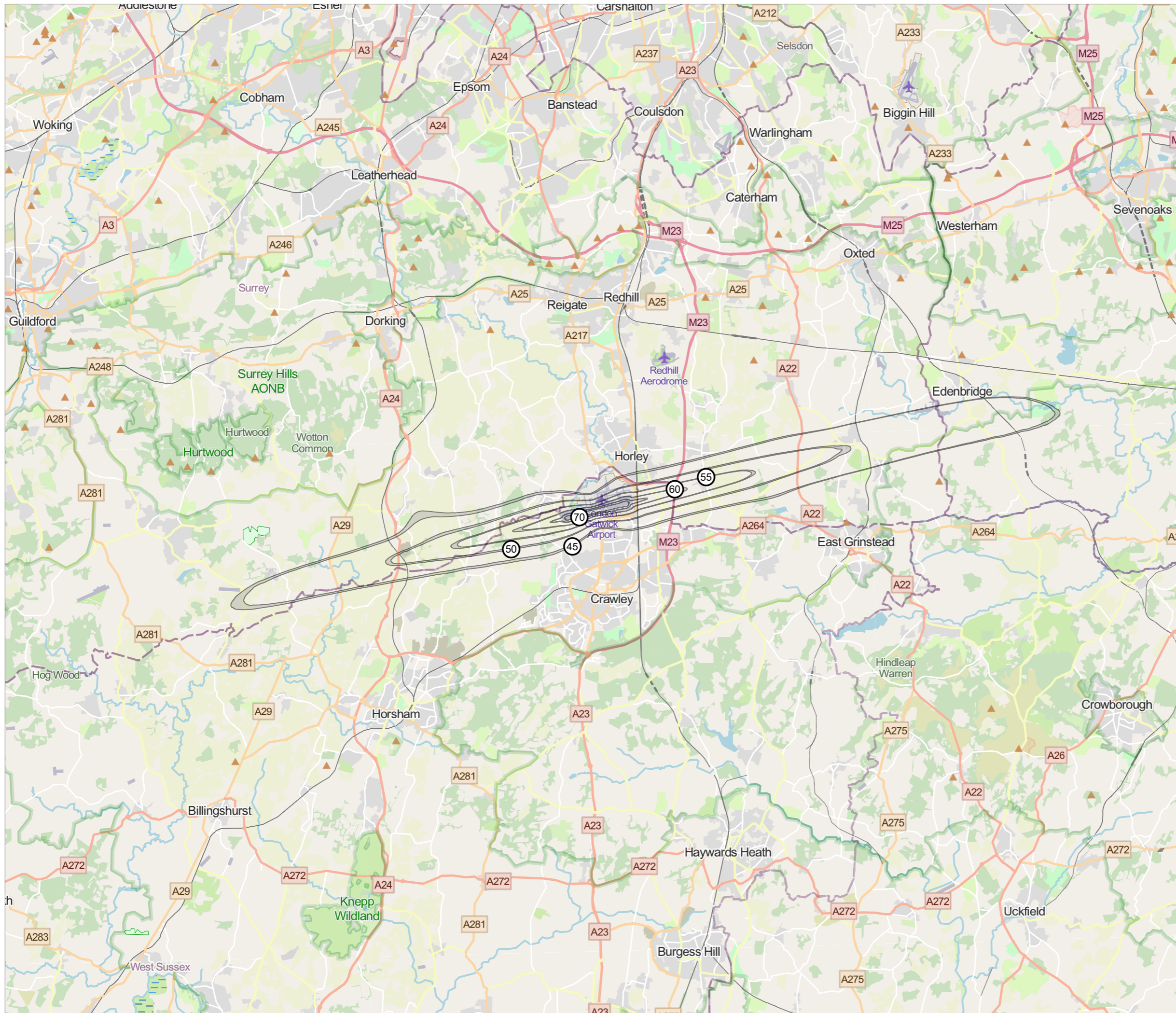
KEY
 [Grey Box] Central Case and Slower Transition Fleet Case Range

DOCUMENT		
Environmental Statement		
DRAWING TITLE		
2038 Air Noise Baseline N60 Night		
DATE		
July 2023		
ORIENTATION 	DRAWING NO.	REVISION
	14.6.24	For ES Issue
	DRAWN BY	PM / CHECKED BY
	MTC	SM
SCALE @ A3 1:175,000		
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KEY
 [Grey Box] Central Case and Slower Transition Fleet Case Range

DOCUMENT		
Environmental Statement		
DRAWING TITLE		
2038 Air Noise Baseline L _{den} Annual Average 24 Hour		
DATE		
July 2023		
ORIENTATION	DRAWING NO.	REVISION
	14.6.25	For ES Issue
	DRAWN BY MTC	PM / CHECKED BY SM
SCALE @ A3 1:175,000		
		
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KEY

Central Case and Slower Transition Fleet Case Range

DOCUMENT

Environmental Statement

DRAWING TITLE

2038 Air Noise Baseline L_{Night} Annual Average Night

DATE

July 2023

ORIENTATION



DRAWING NO.

14.6.26

REVISION

For ES Issue

DRAWN BY

MTC

PM / CHECKED BY

SM

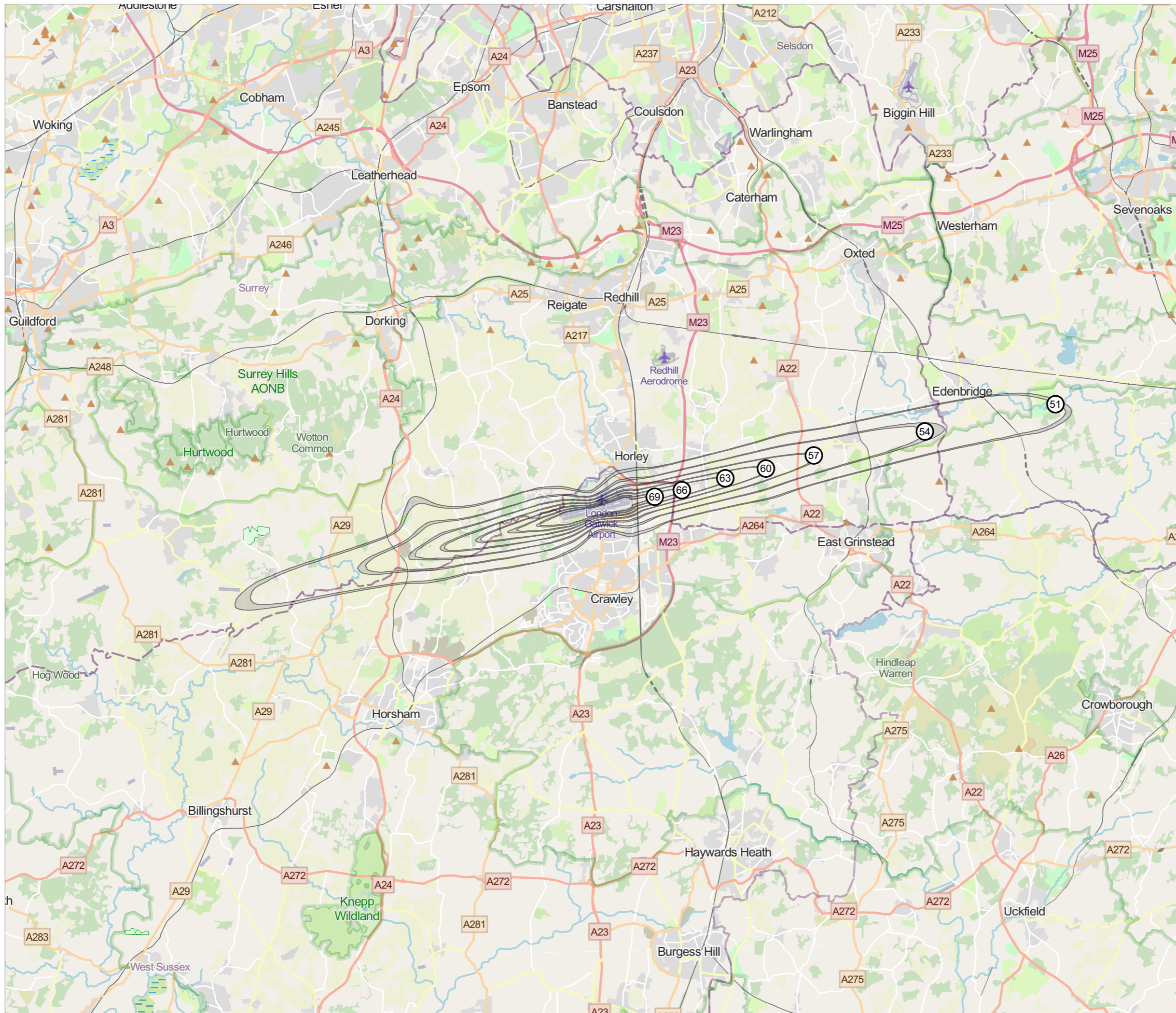
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KEY

Central Case and Slower Transition Fleet Case Range



DOCUMENT

Environmental Statement

DRAWING TITLE

2047 Air Noise Baseline L_{eq} 16 hr

DATE

July 2023

ORIENTATION



DRAWING NO.

14.6.27

REVISION

For ES Issue

DRAWN BY

MTC

PM / CHECKED BY

SM

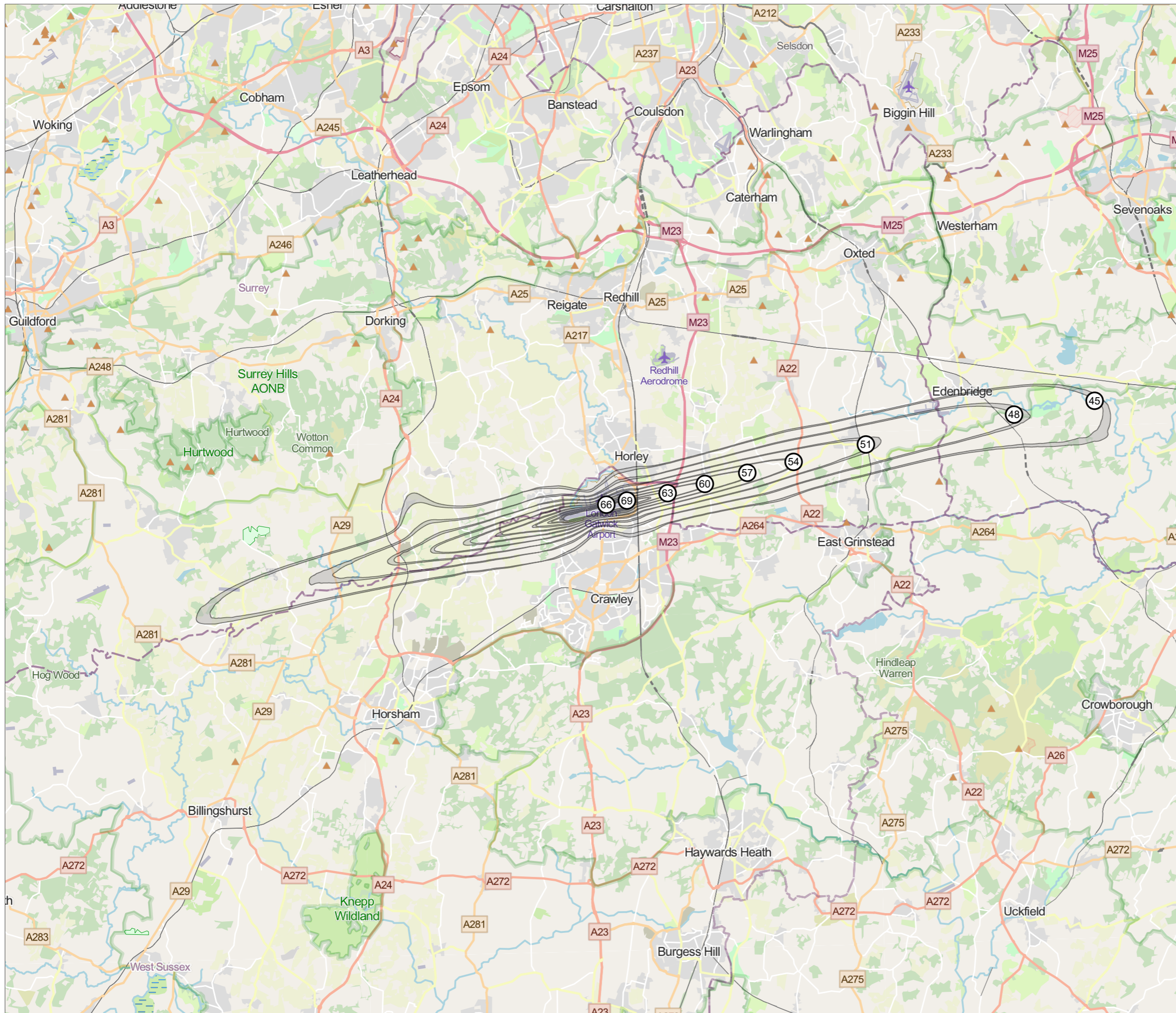
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KEY

Central Case and Slower Transition Fleet Case Range



DOCUMENT

Environmental Statement

DRAWING TITLE

2047 Air Noise Baseline, L_{eq} , 8 hr Night

DATE

July 2023

ORIENTATION



DRAWING NO.

14.6.28

REVISION

For ES Issue

DRAWN BY

MTC

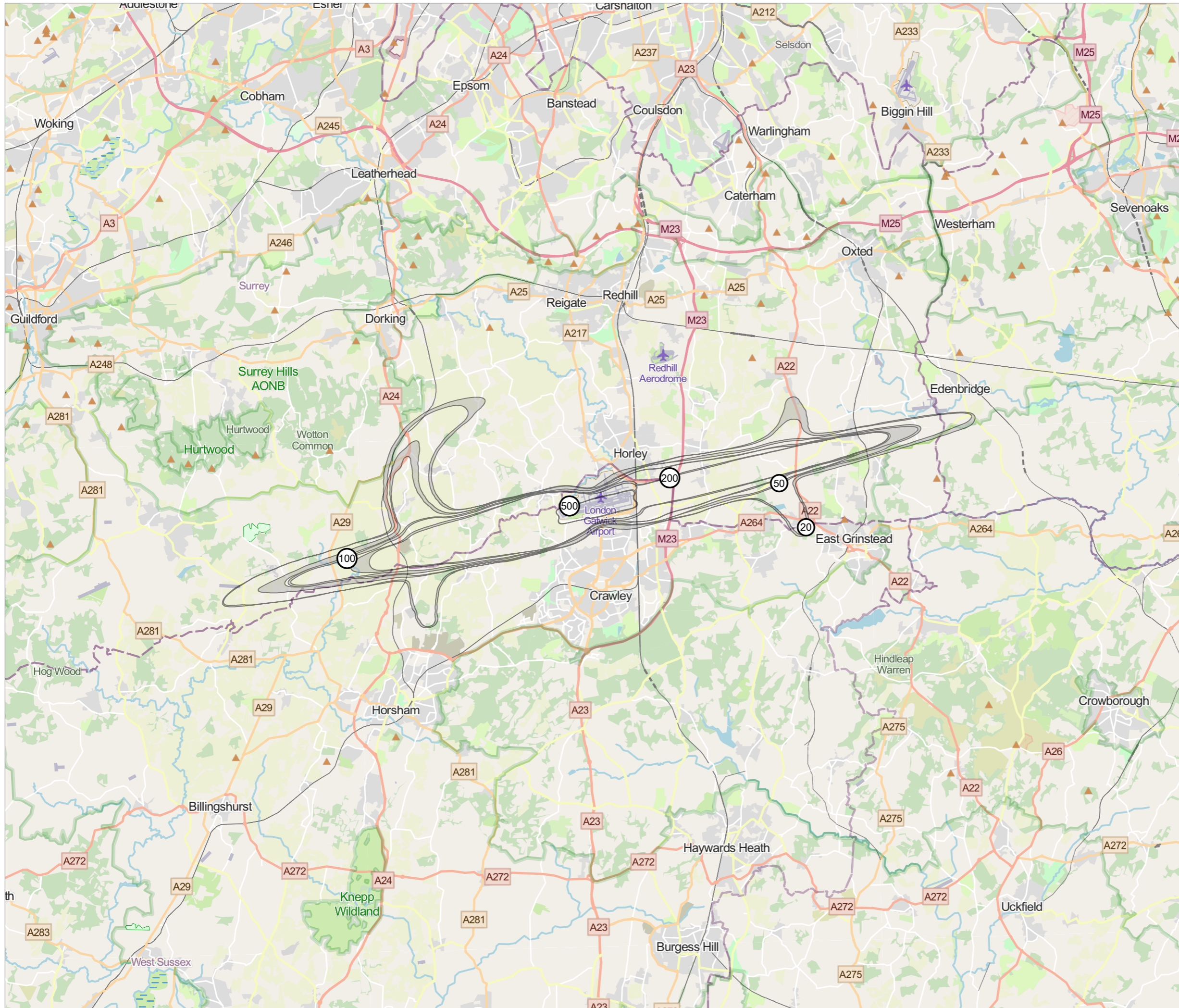
PM / CHECKED BY

SM

SCALE @ A3 1:175,000



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KEY

Central Case and Slower Transition Fleet Case Range

DOCUMENT

Environmental Statement

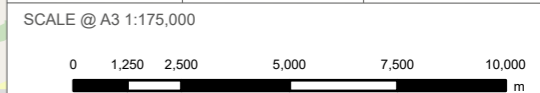
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2047 Air Noise Baseline N65 Day

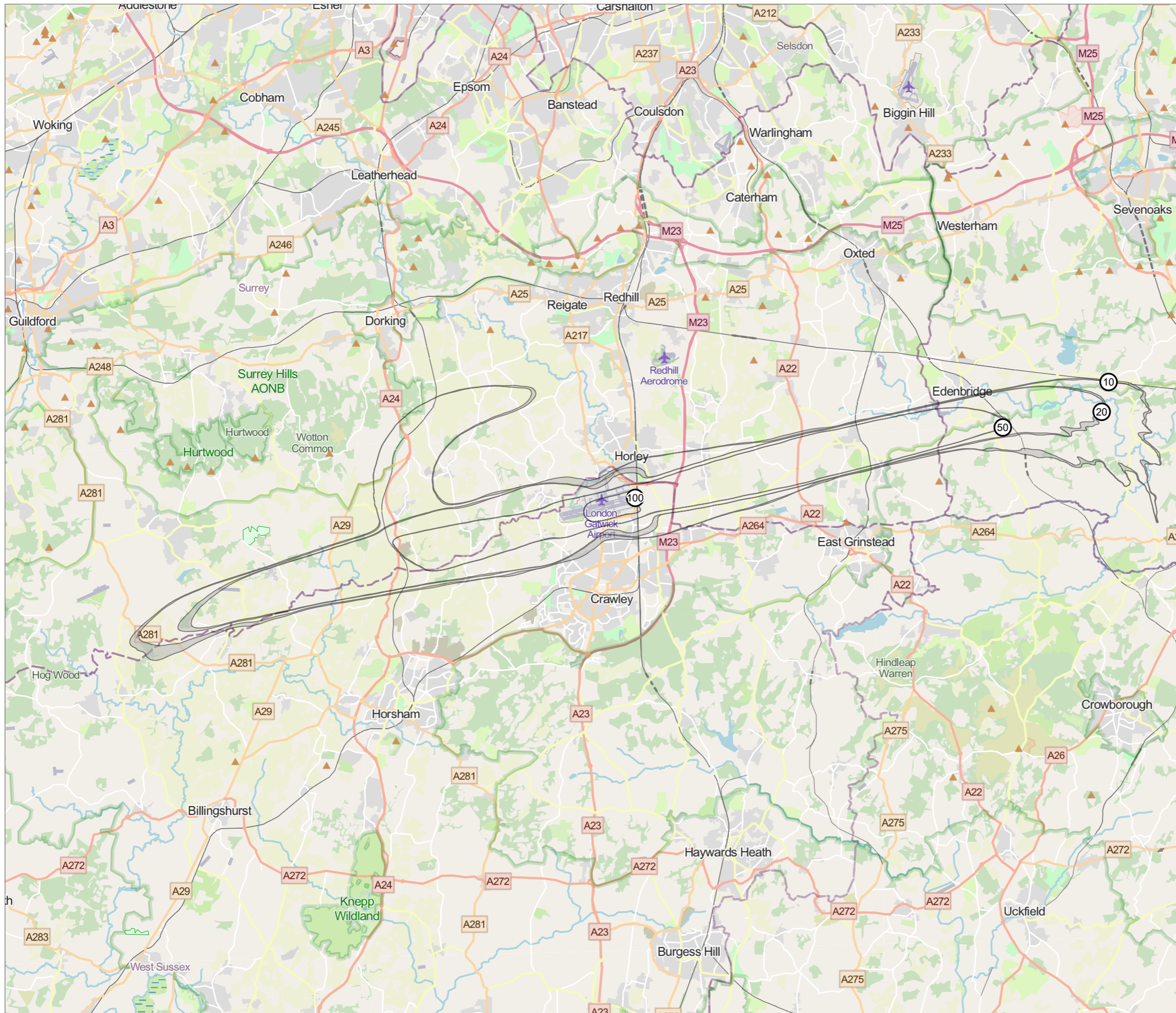
DATE

July 2023



ORIENTATION	DRAWING NO.	REVISION
	14.6.29	For ES Issue
N	DRAWN BY	PM / CHECKED BY
	MTC	SM

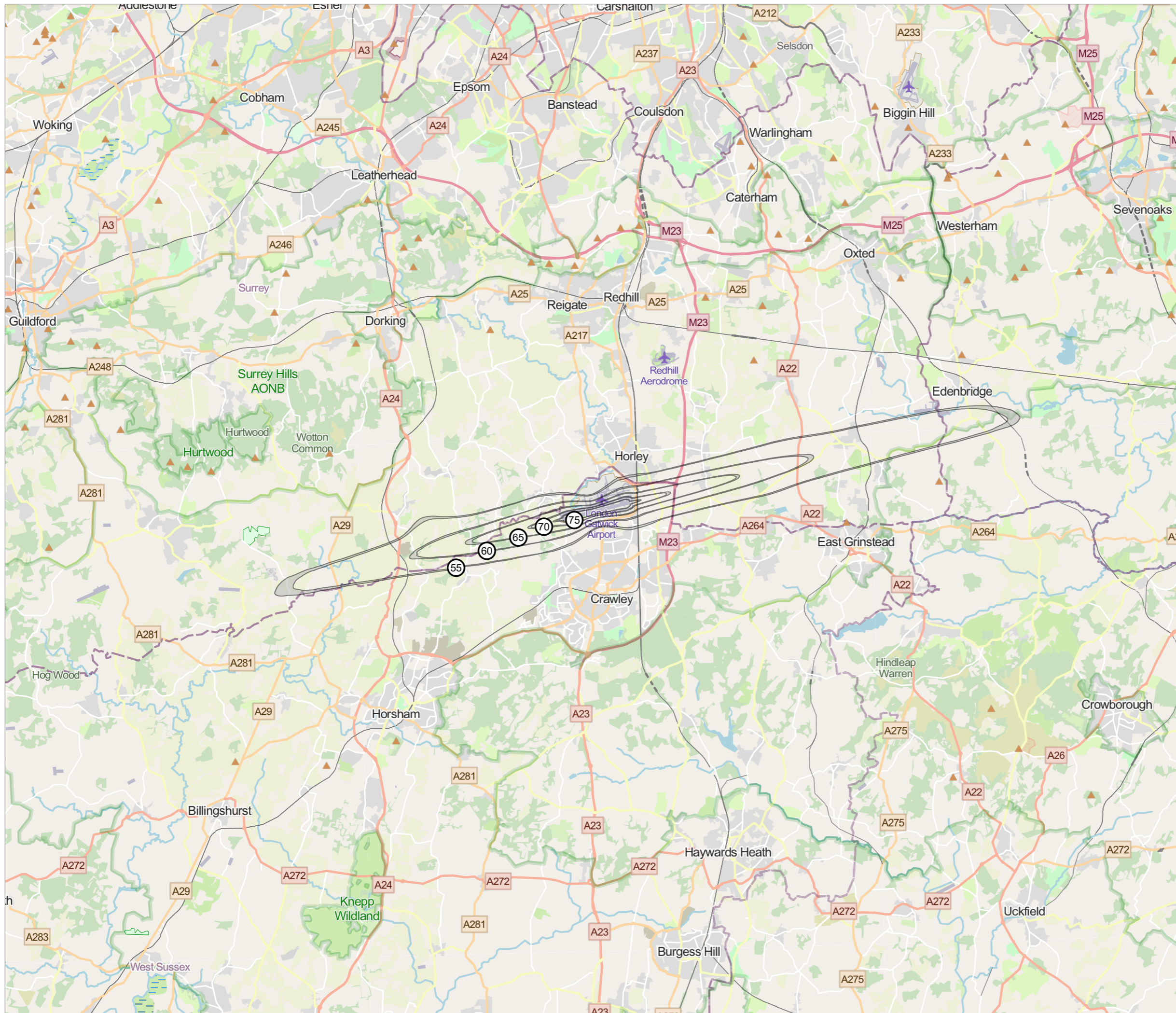


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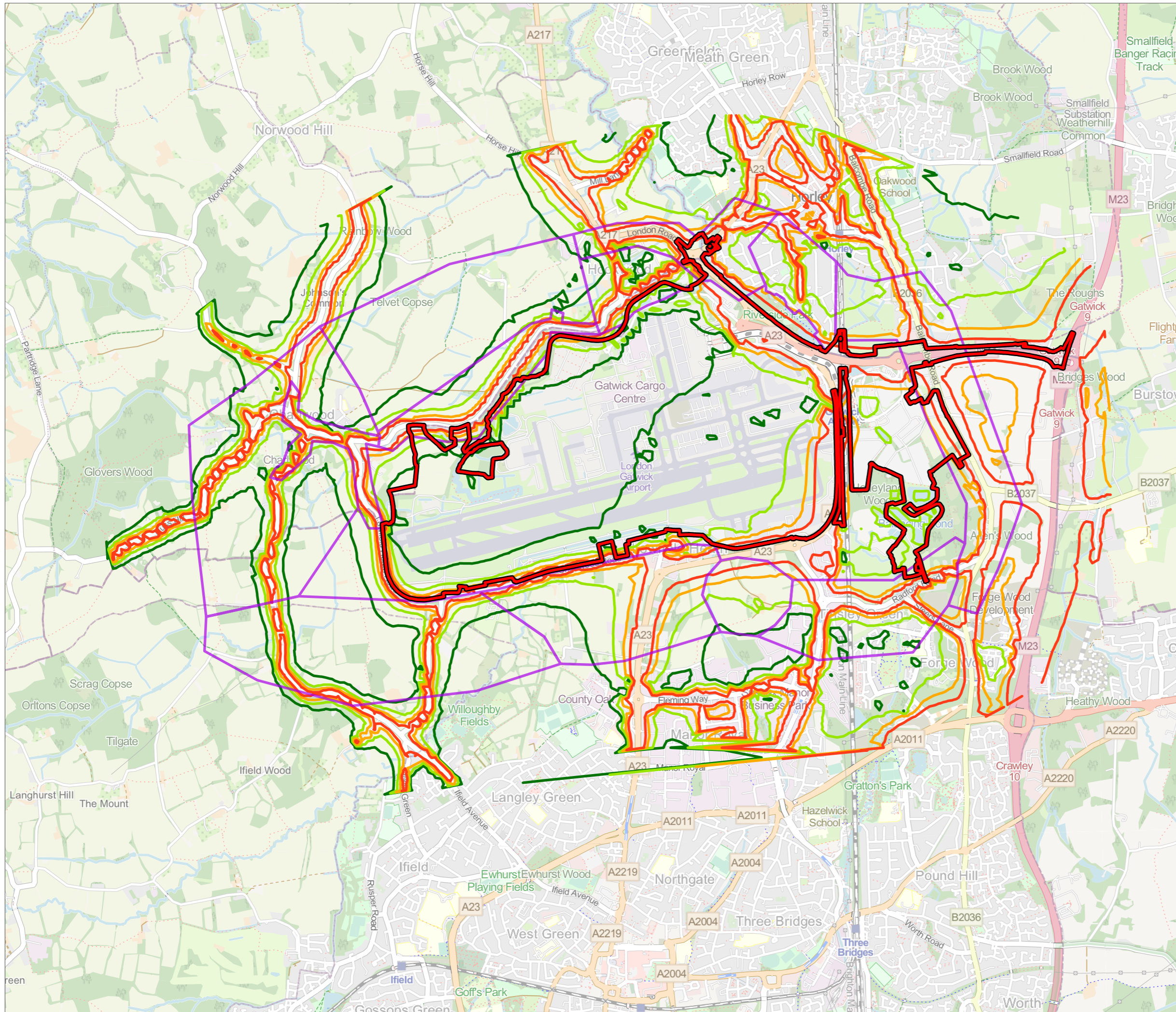
KEY
 [Grey shaded area] Central Case and Slower Transition Fleet Case Range

DOCUMENT		
Environmental Statement		
DRAWING TITLE		
2047 Air Noise Baseline N60 Night		
DATE		
July 2023		
ORIENTATION 	DRAWING NO.	REVISION
	14.6.30	For ES Issue
	DRAWN BY	PM / CHECKED BY
	MTC	SM
SCALE @ A3 1:175,000		
		
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KEY
 [Grey Box] Central Case and Slower Transition Fleet Case Range

DOCUMENT		
Environmental Statement		
DRAWING TITLE		
2047 Air Noise Baseline L_{den} Annual Average 24 Hour		
DATE		
July 2023		
ORIENTATION	DRAWING NO.	REVISION
 N	14.6.31	For ES Issue
	DRAWN BY MTC	PM / CHECKED BY SM
SCALE @ A3 1:175,000		
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KEY

- Project Site Boundary
- Noise Sensitive Receptor Areas

Day/Evening (L_{eq} , 16 hour dB)

- >60
- 57
- 54
- <51

DOCUMENT

Environmental Statement

DRAWING TITLE

2018 Baseline Road Traffic Noise Levels, Ground Noise Study Area, Daytime and Evening

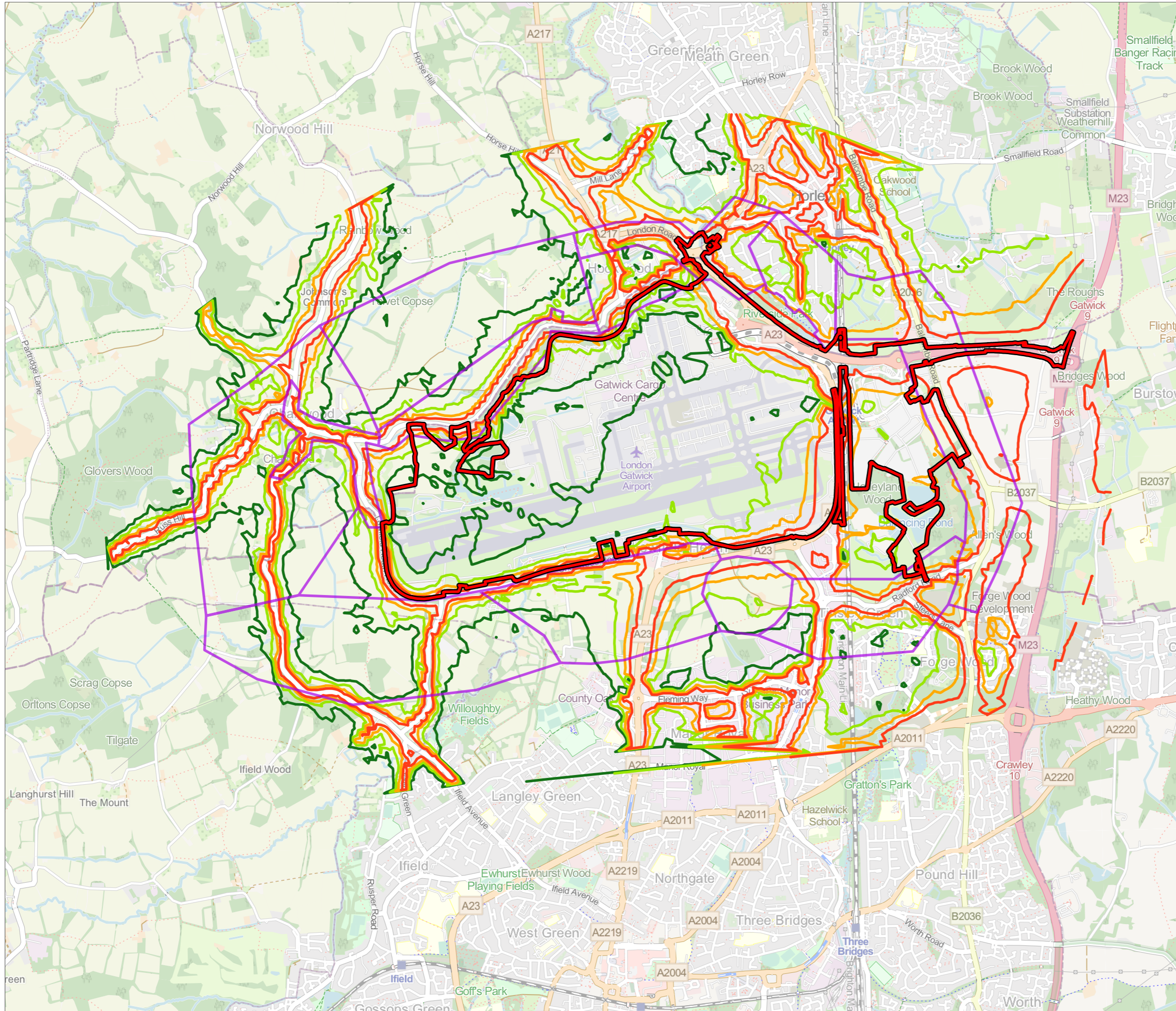
DATE

July 2023

	DRAWING NO. 14.6.33	REVISION For ES Issue
	DRAWN BY MTC	PM / CHECKED BY SM



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KEY

- Project Site Boundary
- Noise Sensitive Receptor Areas

Night (L_{eq} , 8 hour dB)

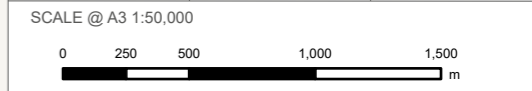
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- 48
- <45

DOCUMENT
Environmental Statement

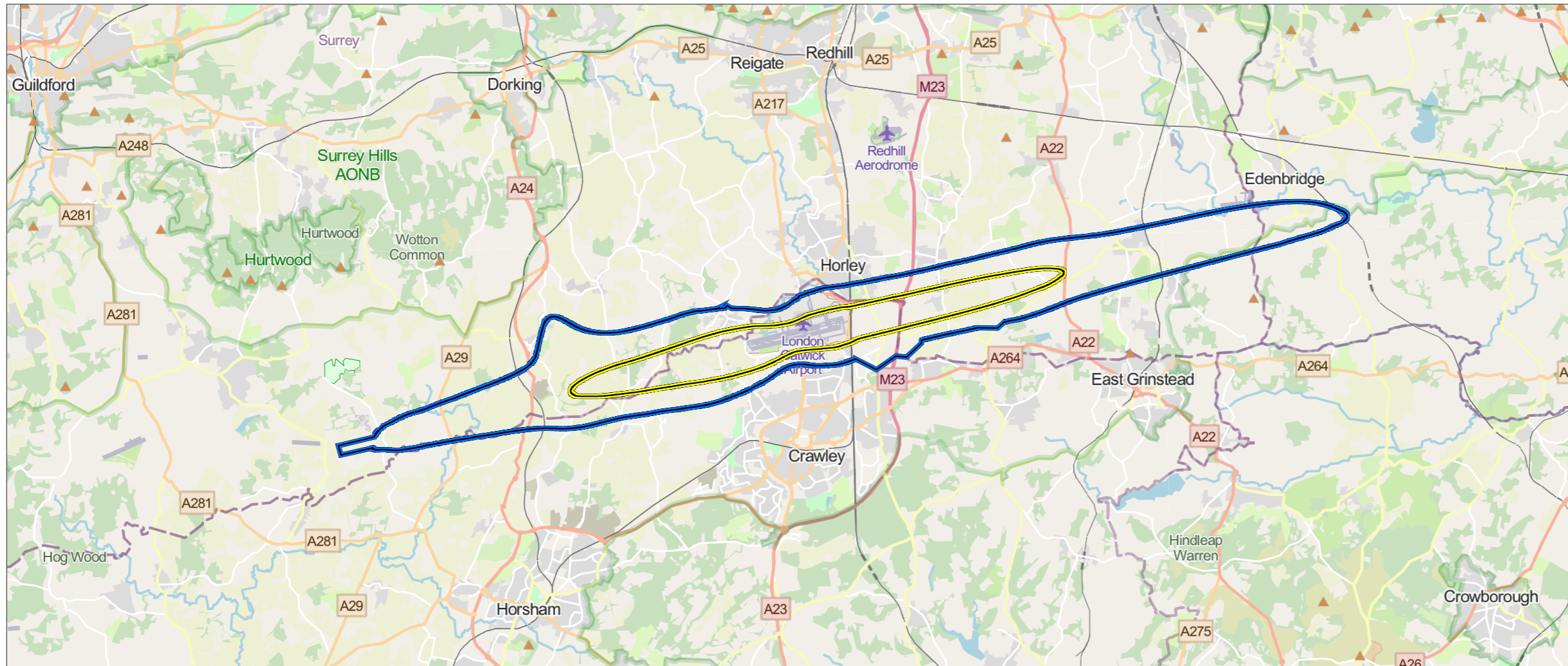
DRAWING TITLE
2018 Baseline Road Traffic Noise Levels, Ground Noise Study Area, Night

DATE
July 2023

	ORIENTATION	DRAWING NO. 14.6.34	REVISION For ES Issue
		DRAWN BY MTC	PM / CHECKED BY SM

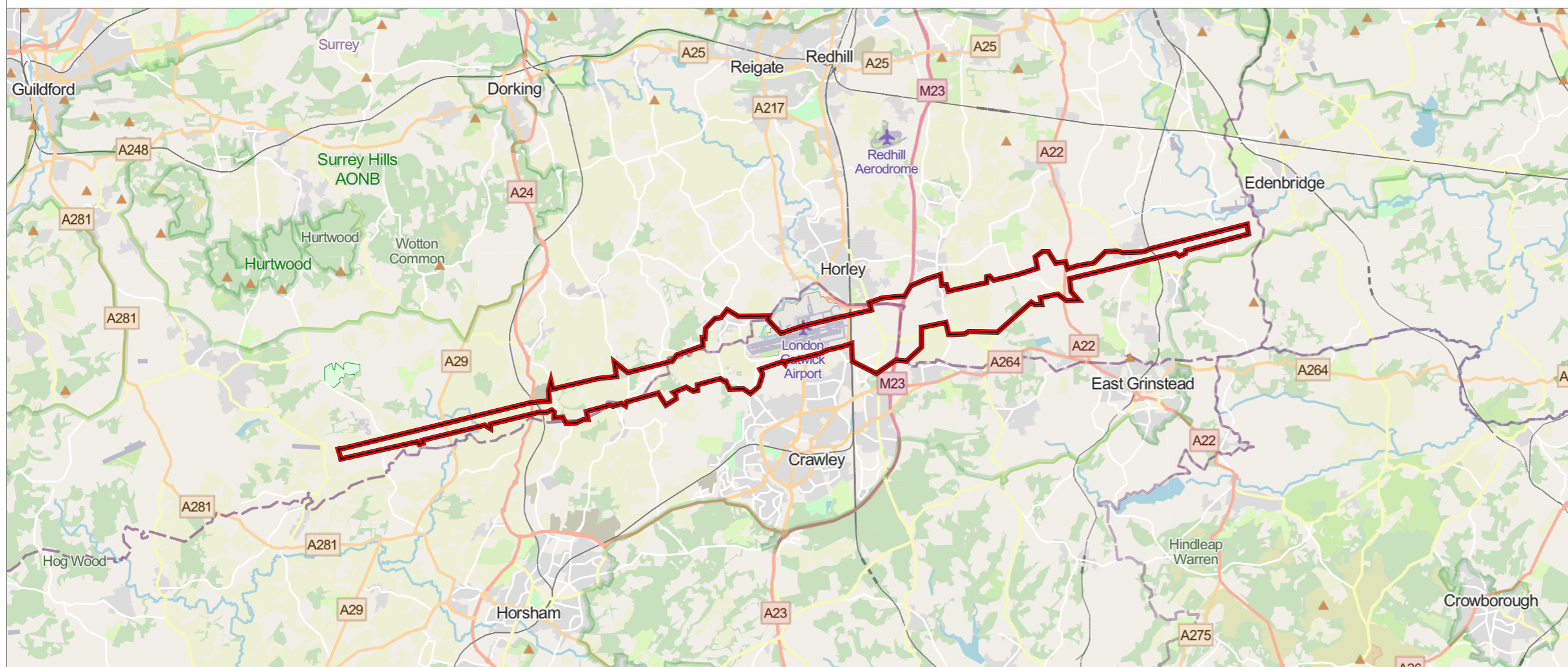


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KEY

- ▬ Inner Zone - L_{eq} 8 hr night 55dB
- ▬ Outer Zone - L_{eq} 16 hr day 54dB
- ▬ Current NIS



DOCUMENT

Environmental Statement

DRAWING TITLE

Proposed Noise Insulation Scheme Zones

DATE

July 2023

ORIENTATION



DRAWING NO.

14.8.1

REVISION

For ES Issue

DRAWN BY

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SCALE @ A3 1:175,000



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