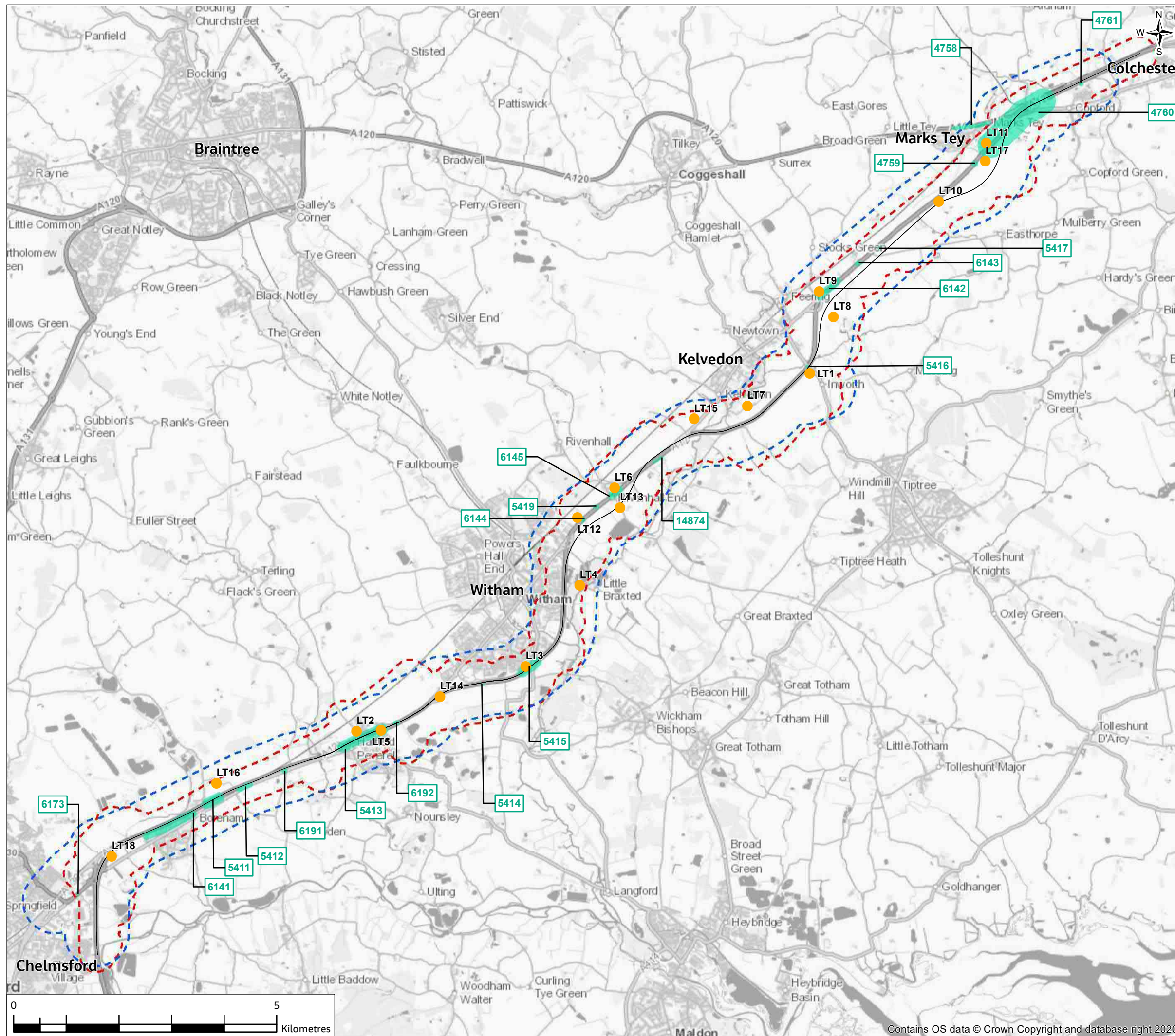


**A12 Chelmsford to A120 widening scheme**

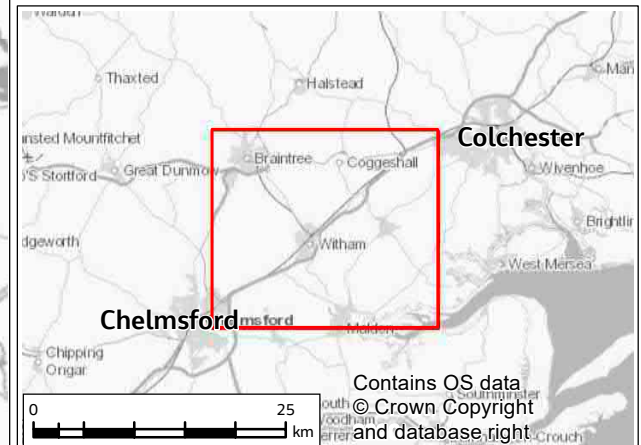
**PRELIMINARY ENVIRONMENTAL  
INFORMATION REPORT**

**CHAPTER 12 – NOISE & VIBRATION  
FIGURES**

**FIGURE 12.1**



- Legend**
- Proposed Scheme Centreline
  - - - Construction Noise Study Area
  - - - Operational Noise Study Area
  - Proposed Noise Monitoring Locations
  - Noise Important Area

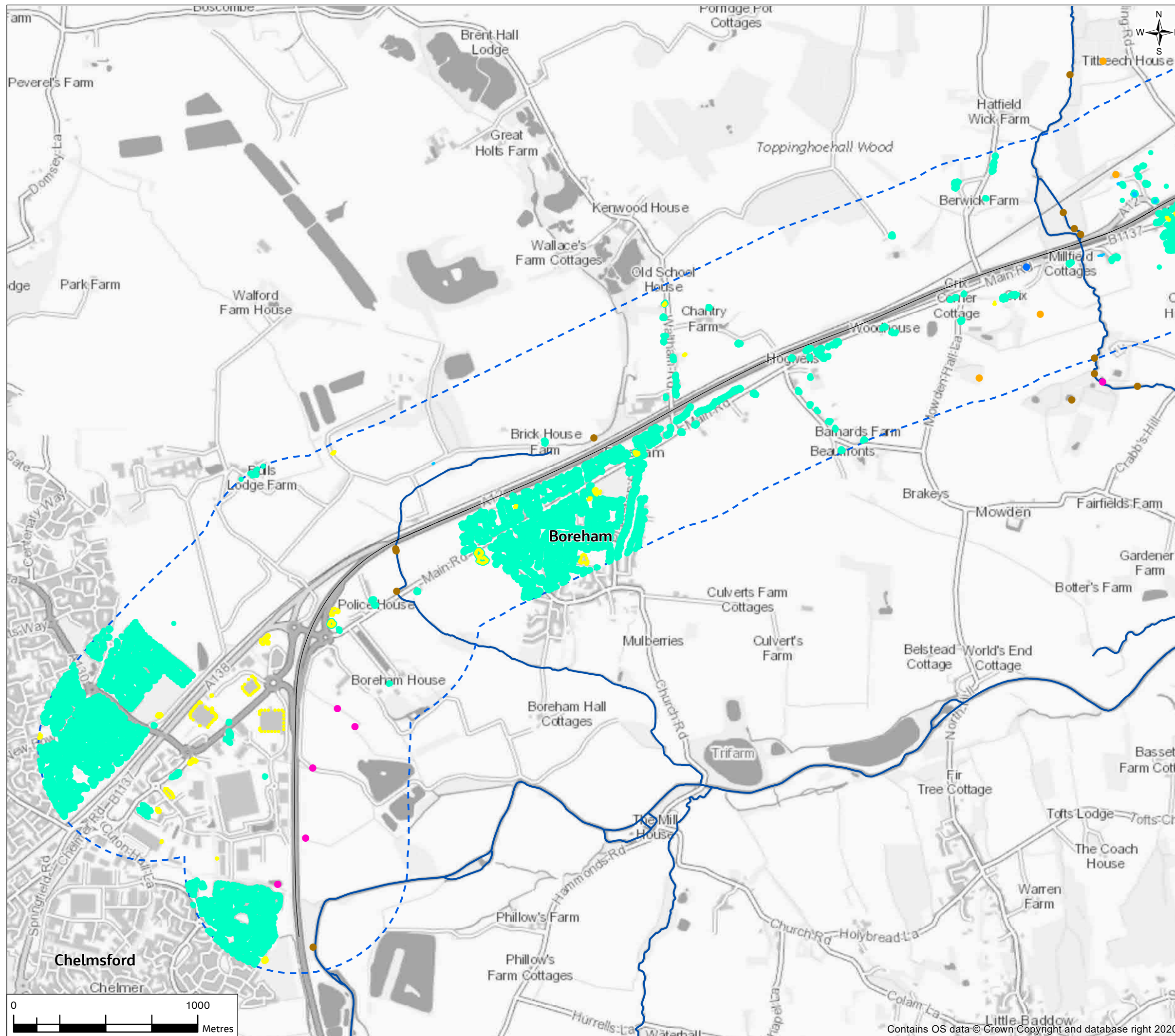


PO3	28/04/21	For consultation	AD	FR	RS	SG
Rev.	Rev. Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
Contractor			Designer			
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Client						
Project						
A12 CHELMSFORD TO A120 WIDENING SCHEME						
Drawing Title						
PEIR NOISE STUDY AREAS, NOISE IMPORTANT AREAS AND PROPOSED NOISE MONITORING LOCATIONS SHEET 1 OF 1						
Drawing Status						
S4 - SUITABLE FOR STAGE APPROVAL						
Scale @ A3		1:70000	DO NOT SCALE			
Jacobs No.		B36601D1	Rev P03			
Client No.		HE551497	Drawing Number			
			HE551497-JAC-ENV-SCHW-SK-GI-0002			

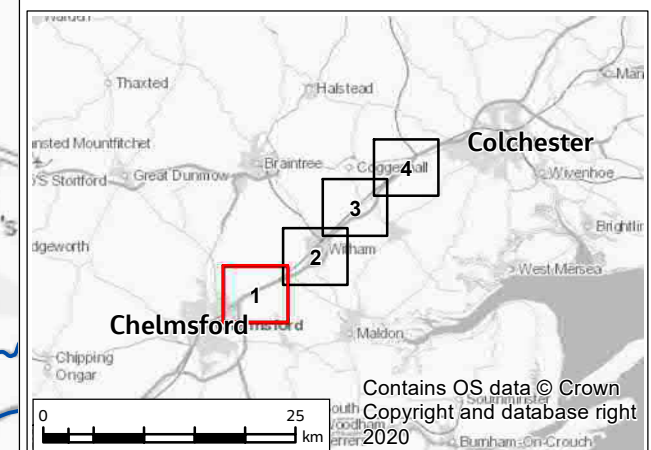


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**FIGURE 12.2**



- Legend**
- Proposed Scheme Centreline
  - - - Operational Noise Study Area
  - Noise Sensitive Receptor - Residential
  - Noise Sensitive Receptor - Other
- Ecology Noise Sensitive Receptors**
- Barn Owl Roost and/or Nest Site
  - Confirmed Bat Roost (Tree)
  - Confirmed Bat Roost (Building)
  - Bat Structure Confirmed Roost
  - Otter Holts and/or Couches
  - Water Vole Burrows
  - Main River

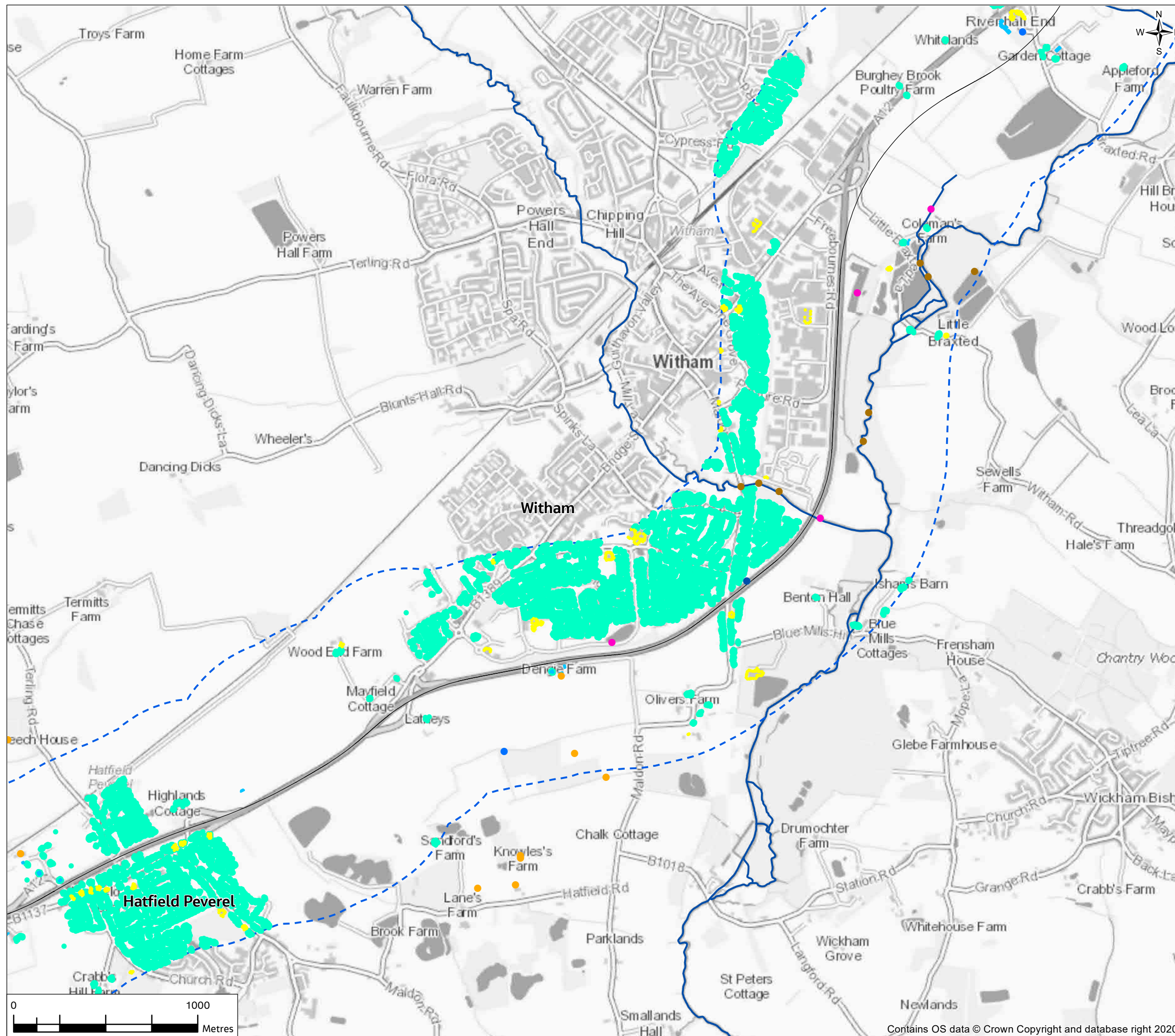


P01	01/04/21	For consultation	AD	FR	RS	SG
Rev.	Rev. Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
Contractor			Designer			
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Client						
Project						
A12 CHELMSFORD TO A120 WIDENING SCHEME						
Drawing Title						
PEIR NOISE SENSITIVE RECEPTORS SHEET 1 OF 4						
Drawing Status						
S4 - SUITABLE FOR STAGE APPROVAL						
Scale @ A3		1:20000	DO NOT SCALE			
Jacobs No.		B36601D1	Rev P01			
Client No.		HE551497				
Drawing Number						
HE551497-JAC-ENV-SCHW-SK-GI-0003						

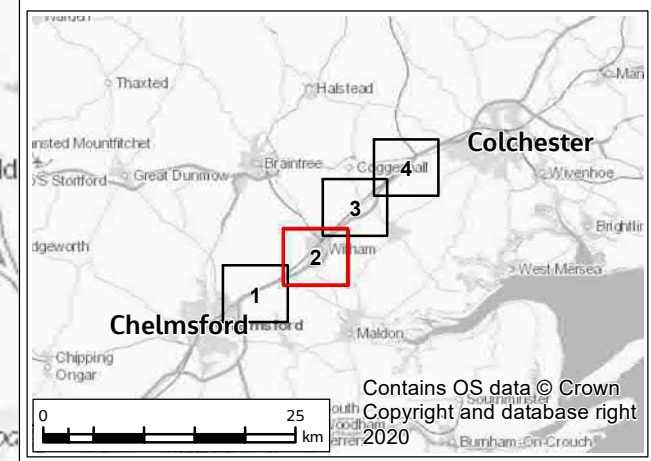


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**FIGURE 12.2**



- Legend**
- Proposed Scheme Centreline
  - - - Operational Noise Study Area
  - Noise Sensitive Receptor - Residential
  - Noise Sensitive Receptor - Other
- Ecology Noise Sensitive Receptors**
- Barn Owl Roost and/or Nest Site
  - Confirmed Bat Roost (Tree)
  - Confirmed Bat Roost (Building)
  - Bat Structure Confirmed Roost
  - Otter Holts and/or Couches
  - Water Vole Burrows
  - Main River



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Rev.	Rev. Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd

Contractor		Designer	
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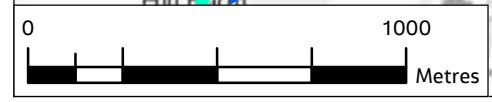
Client	
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Project  
**A12 CHELMSFORD TO A120 WIDENING SCHEME**

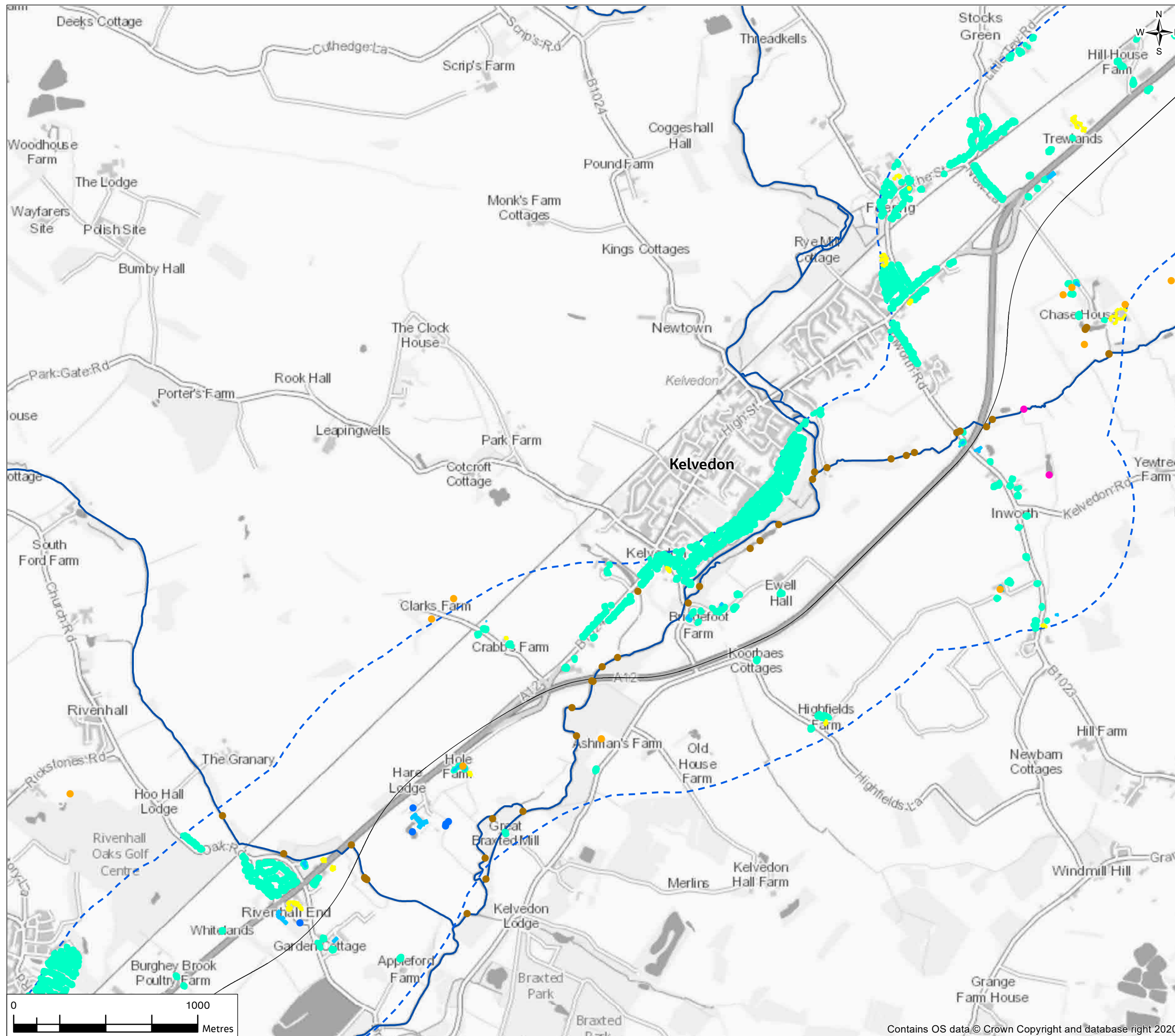
Drawing Title  
**PEIR  
NOISE SENSITIVE RECEPTORS  
SHEET 2 OF 4**

Drawing Status	S4 - SUITABLE FOR STAGE APPROVAL		
Scale @ A3	1:20000	DO NOT SCALE	
Jacobs No.	B36601D1	Rev P01	
Client No.	HE551497		
Drawing Number	HE551497-JAC-ENV-SCHW-SK-GI-0004		

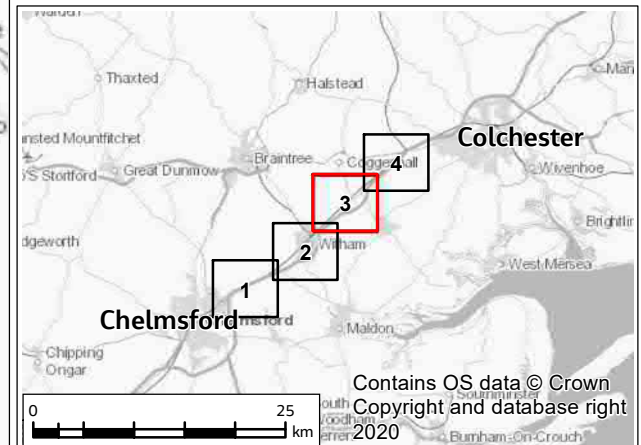
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**FIGURE 12.2**



- Legend**
- Proposed Scheme Centreline
  - - - Operational Noise Study Area
  - Noise Sensitive Receptor - Residential
  - Noise Sensitive Receptor - Other
- Ecology Noise Sensitive Receptors**
- Barn Owl Roost and/or Nest Site
  - Confirmed Bat Roost (Tree)
  - Confirmed Bat Roost (Building)
  - Bat Structure Confirmed Roost
  - Otter Holts and/or Couches
  - Water Vole Burrows
  - Main River



PO1	01/04/21	For consultation	AD	FR	RS	SG
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Contractor		Designer	
		Cottons Centre, Cottons Lane, London, SE1 2QG, UK. Tel: +44 (0)20 3980 2000 www.jacobs.com	

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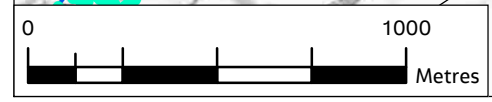
**A12 CHELMSFORD TO A120 WIDENING SCHEME**

Drawing Title

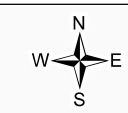
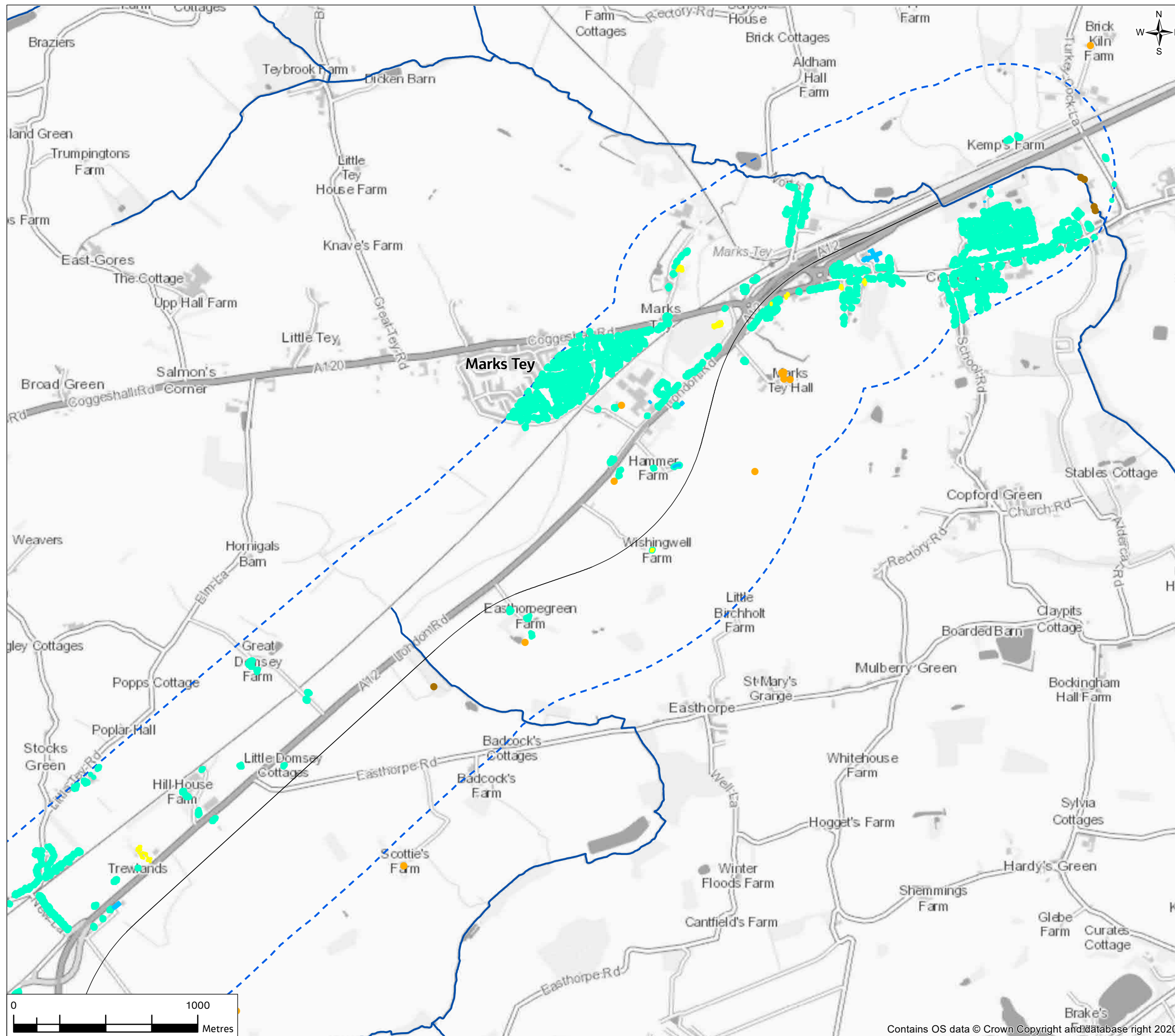
**PEIR  
NOISE SENSITIVE RECEPTORS  
SHEET 3 OF 4**

Drawing Status	S4 - SUITABLE FOR STAGE APPROVAL		
Scale @ A3	1:20000	DO NOT SCALE	
Jacobs No.	B36601D1	Rev	PO1
Client No.	HE551497		
Drawing Number	HE551497-JAC-ENV-SCHW-SK-GI-0005		

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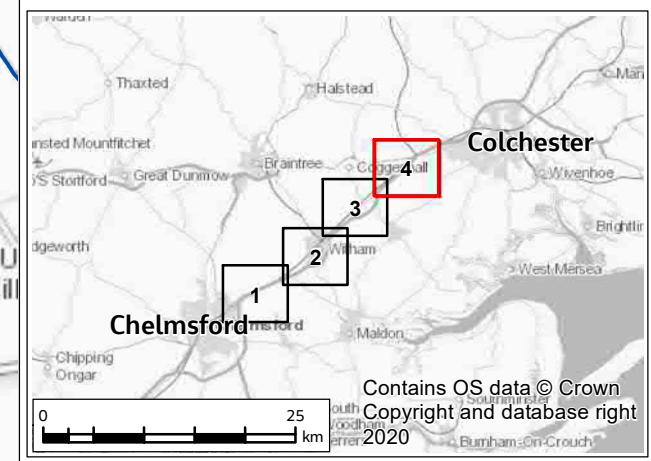


**FIGURE 12.2**





**Legend**

- Proposed Scheme Centreline
- - - Operational Noise Study Area
- Noise Sensitive Receptor - Residential
- Noise Sensitive Receptor - Other
- Ecology Noise Sensitive Receptors**
- Barn Owl Roost and/or Nest Site
- Confirmed Bat Roost (Tree)
- Confirmed Bat Roost (Building)
- Bat Structure Confirmed Roost
- Otter Holts and/or Couches
- Water Vole Burrows
- Main River



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Rev.	Rev. Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd

	<b>Designer</b>  Cottons Centre, Cottons Lane, London, SE1 2QG, UK Tel: +44 (0)20 3980 2000 www.jacobs.com
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**Client**



**Project**

A12 CHELMSFORD TO A120 WIDENING SCHEME

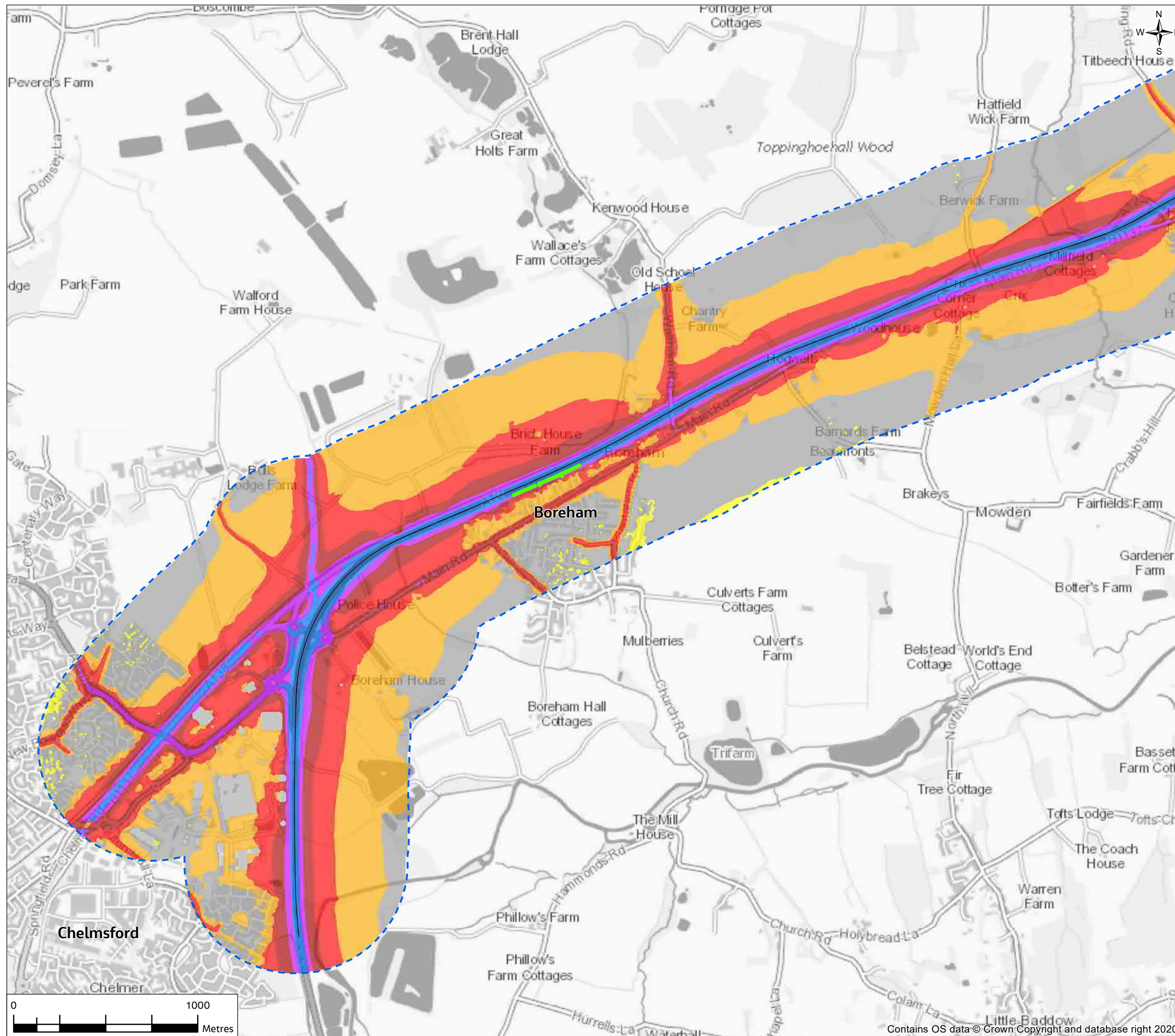
**Drawing Title**

PEIR  
NOISE SENSITIVE RECEPTORS  
SHEET 4 OF 4

<b>Drawing Status</b>	S4 - SUITABLE FOR STAGE APPROVAL		
<b>Scale @ A3</b>	1:20000	DO NOT SCALE	
<b>Jacobs No.</b>	B36601D1	<b>Rev</b>	P01
<b>Client No.</b>	HE551497		
<b>Drawing Number</b>	HE551497-JAC-ENV-SCHW-SK-GI-0006		

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**FIGURE 12.3**

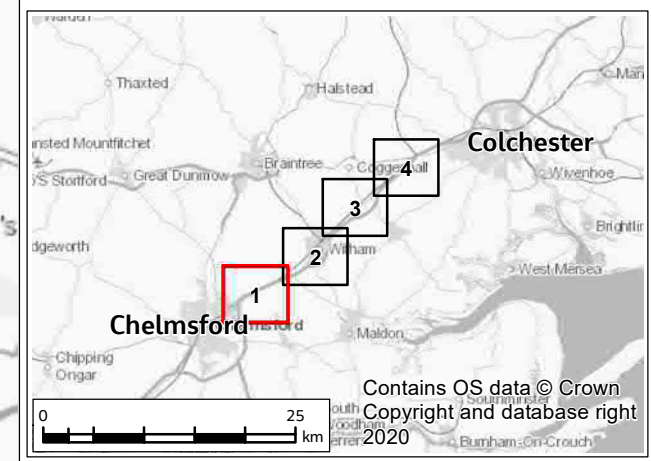


**Legend**

- Proposed Scheme Centreline
- - - Operational Noise Study Area
- Existing Noise Barriers

**Do Minimum Opening Year  $L_{A10,18h}$  dB**

- <35
- 35 to 40
- 40 to 45
- 45 to 50
- 50 to 55
- 55 to 60
- 60 to 65
- 65 to 70
- 70 to 75
- 75 to 80
- 80 to 85
- >85

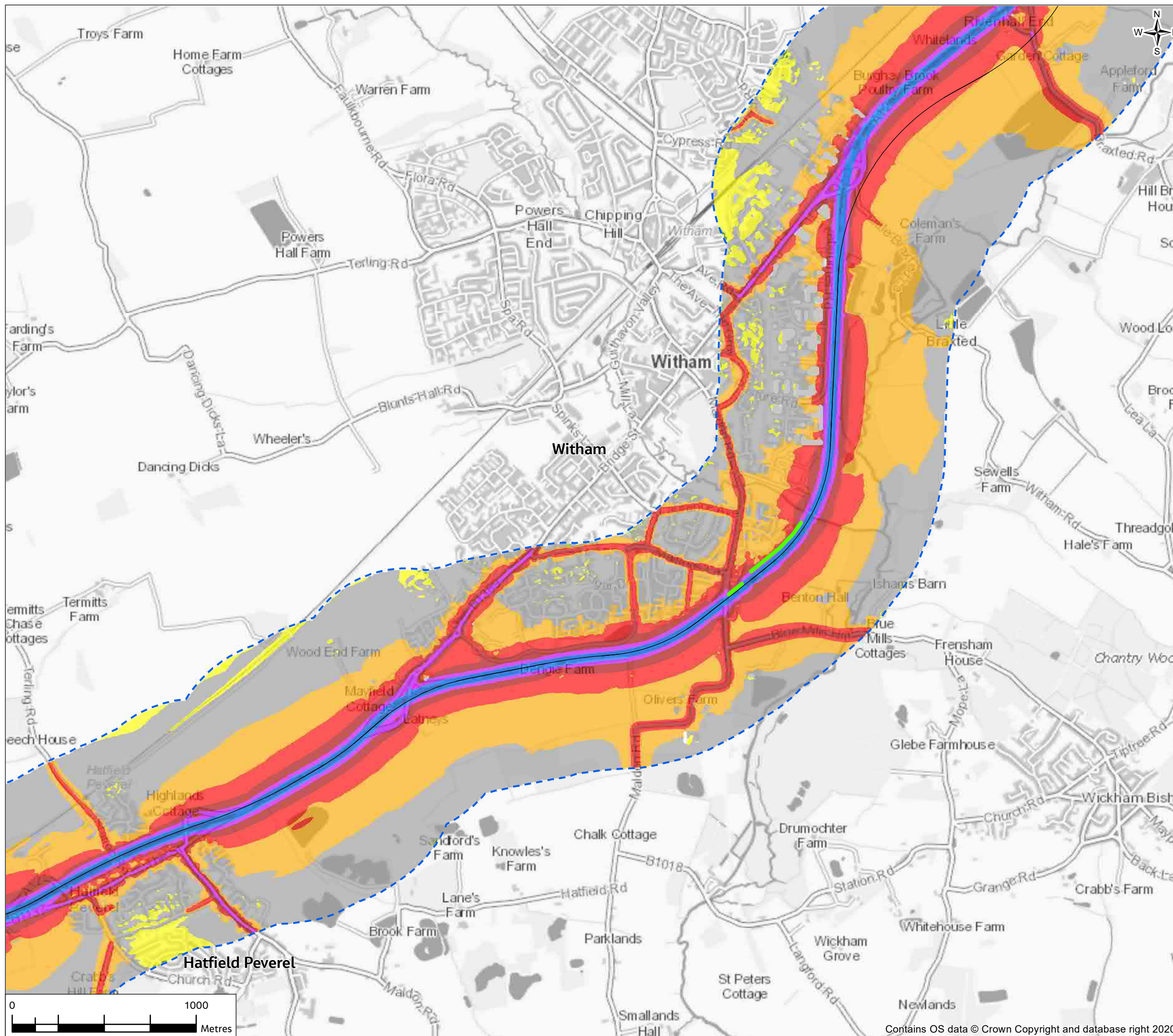


PO1	08/04/21	For consultation	AD	FR	RS	SG
Rev.	Rev. Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
Contractor			Designer			
			 Cottons Centre, Cottons Lane, London, SE1 2QG, UK. Tel: +44 (0)20 3980 2000 www.jacobs.com			
Client						
Project						
A12 CHELMSFORD TO A120 WIDENING SCHEME						
Drawing Title						
PEIR DO-MINIMUM 2027 OPENING YEAR NOISE CONTOURS AND EXISTING NOISE BARRIERS SHEET 1 OF 4						
Drawing Status						
S4 - SUITABLE FOR STAGE APPROVAL						
Scale @ A3		1:20000	DO NOT SCALE			
Jacobs No.		B36601D1	Rev P01			
Client No.		HE551497				
Drawing Number						
HE551497-JAC-ENV-SCHW-SK-GI-0007						



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**FIGURE 12.3**

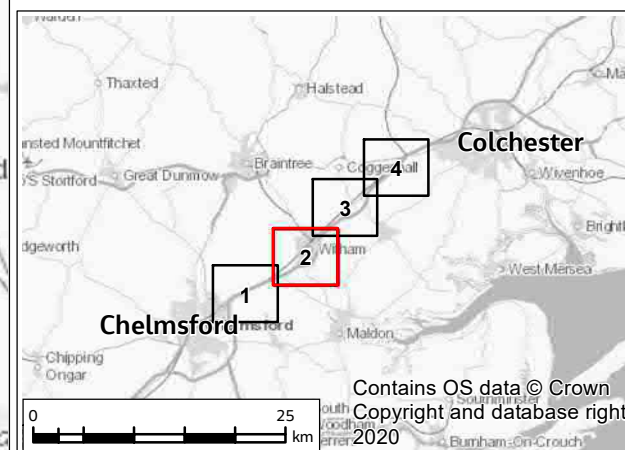


**Legend**

- Proposed Scheme Centreline
- - - Operational Noise Study Area
- Existing Noise Barriers

Do Minimum Opening Year  $L_{A10,18h}$  dB

- <35
- 35 to 40
- 40 to 45
- 45 to 50
- 50 to 55
- 55 to 60
- 60 to 65
- 65 to 70
- 70 to 75
- 75 to 80
- 80 to 85
- >85



PO1	08/04/21	For consultation	AD	FR	RS	SG
Rev.	Rev. Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd

Contractor		Designer	
Client			

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

Drawing Title: **PEIR  
DO-MINIMUM 2027 OPENING YEAR  
NOISE CONTOURS AND EXISTING NOISE BARRIERS  
SHEET 2 OF 4**

Drawing Status	S4 - SUITABLE FOR STAGE APPROVAL		
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Jacobs No.	B36601D1	Rev	P01
Client No.	HE551497		

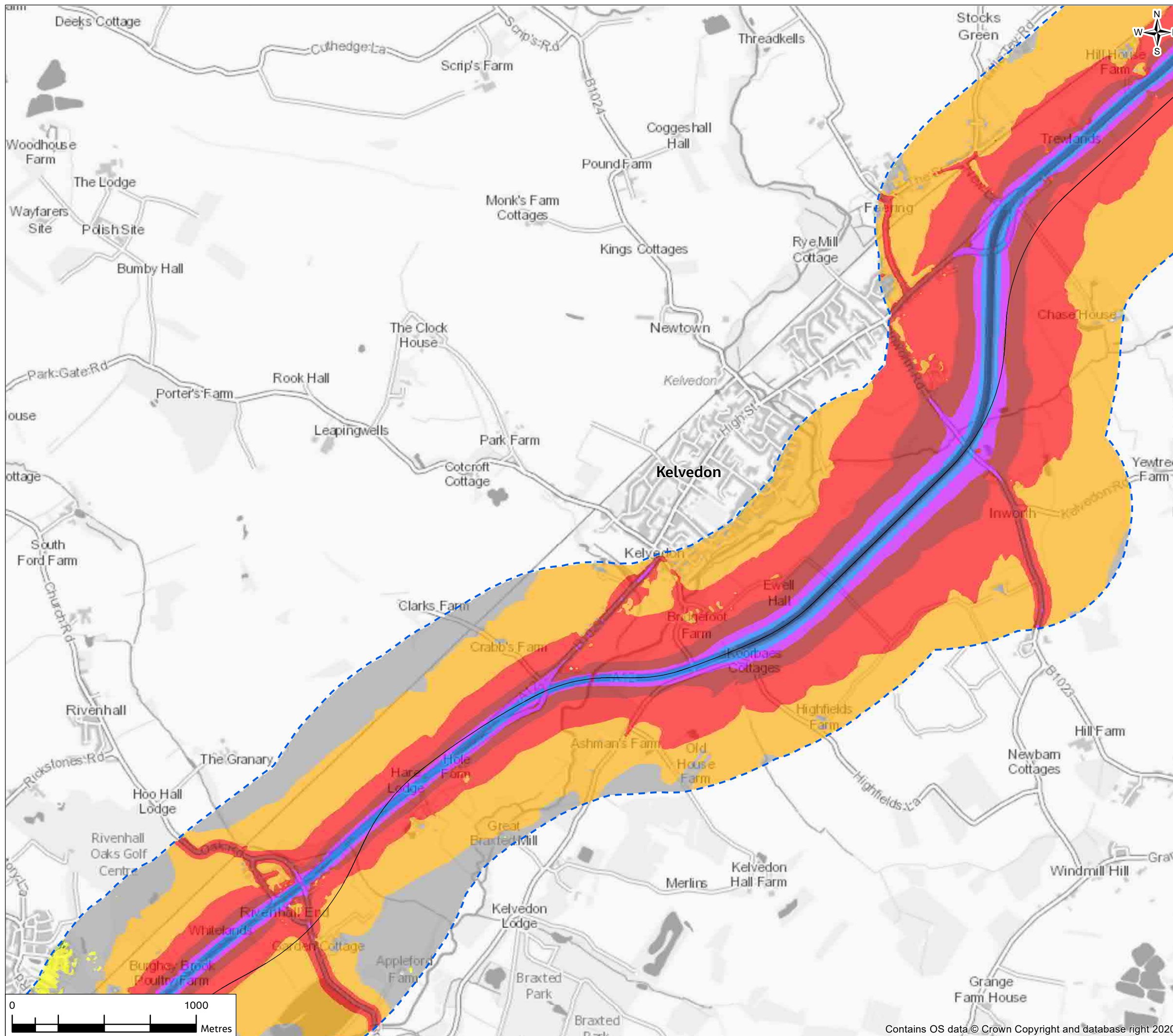
Drawing Number: **HE551497-JAC-ENV-SCHW-SK-GI-0008**

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**FIGURE 12.3**

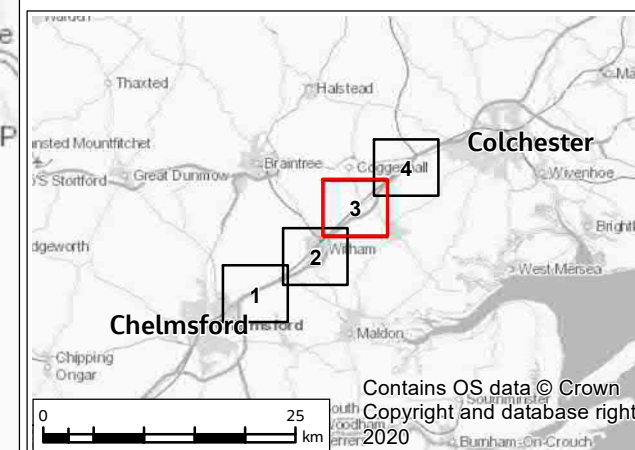


**Legend**

- Proposed Scheme Centreline
- - - Operational Noise Study Area
- Existing Noise Barriers

Do Minimum Opening Year  $L_{A10,18h}$  dB

- <35
- 35 to 40
- 40 to 45
- 45 to 50
- 50 to 55
- 55 to 60
- 60 to 65
- 65 to 70
- 70 to 75
- 75 to 80
- 80 to 85
- >85



PO1	08/04/21	For consultation	AD	FR	RS	SG
Rev.	Rev. Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd

Contractor		Designer	
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Client

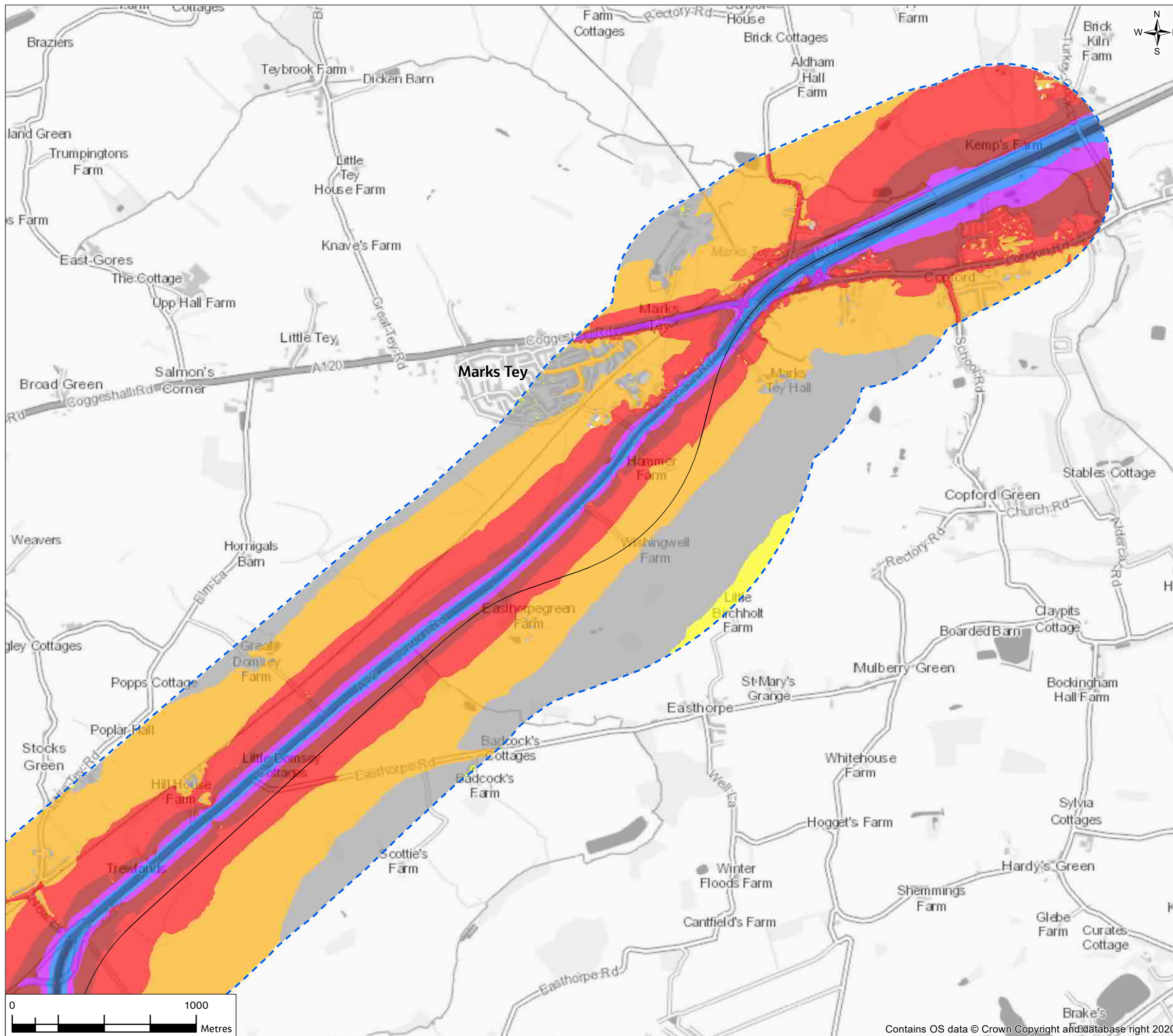
Project  
**A12 CHELMSFORD TO A120 WIDENING SCHEME**

Drawing Title  
**PEIR  
DO-MINIMUM 2027 OPENING YEAR  
NOISE CONTOURS AND EXISTING NOISE BARRIERS  
SHEET 3 OF 4**

Drawing Status	S4 - SUITABLE FOR STAGE APPROVAL		
Scale @ A3	1:20000	DO NOT SCALE	
Jacobs No.	B36601D1	Rev	P01
Client No.	HE551497		
Drawing Number	HE551497-JAC-ENV-SCHW-SK-GI-0009		

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**FIGURE 12.3**

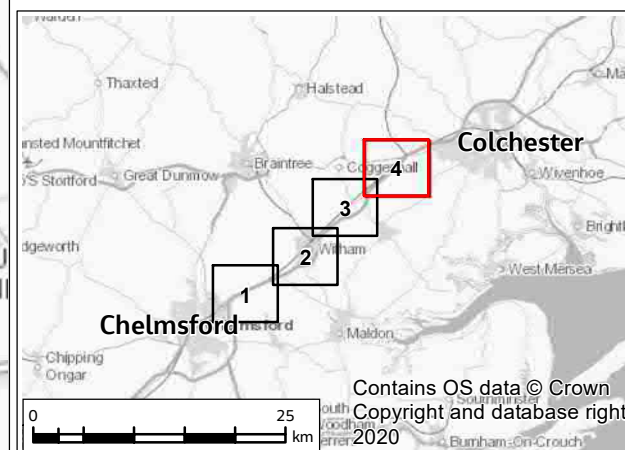


**Legend**

- Proposed Scheme Centreline
- - - Operational Noise Study Area
- Existing Noise Barriers

Do Minimum Opening Year  $L_{A10,18h}$  dB

- <35
- 35 to 40
- 40 to 45
- 45 to 50
- 50 to 55
- 55 to 60
- 60 to 65
- 65 to 70
- 70 to 75
- 75 to 80
- 80 to 85
- >85



P01	08/04/21	For consultation	AD	FR	RS	SG
Rev.	Rev. Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd

Contractor		Designer	
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Client	
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Project  
**A12 CHELMSFORD TO A120 WIDENING SCHEME**

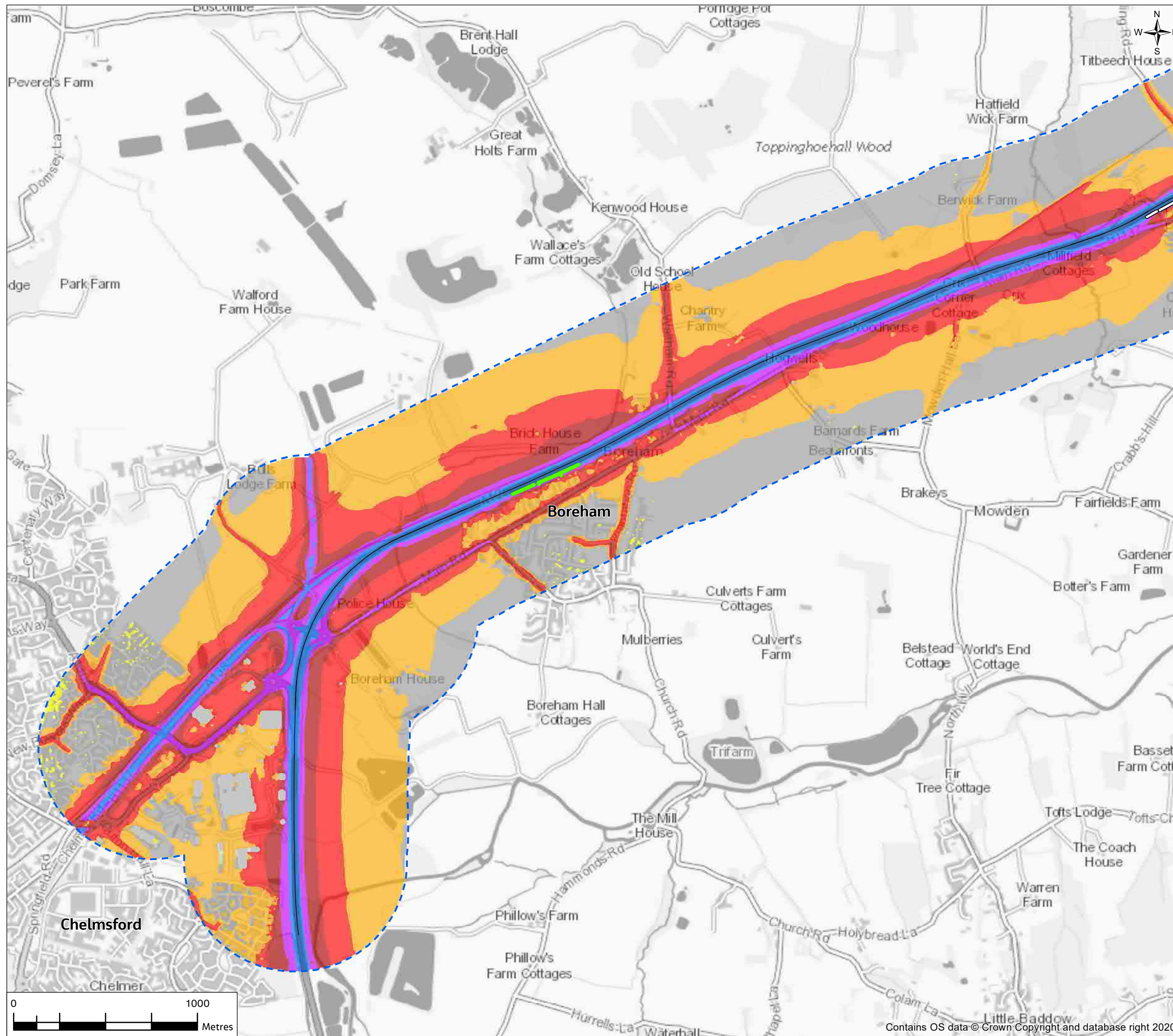
Drawing Title  
**PEIR  
DO-MINIMUM 2027 OPENING YEAR  
NOISE CONTOURS AND EXISTING NOISE BARRIERS  
SHEET 4 OF 4**

Drawing Status	S4 - SUITABLE FOR STAGE APPROVAL		
Scale @ A3	1:20000	DO NOT SCALE	
Jacobs No.	B36601D1	Rev	P01
Client No.	HE551497		
Drawing Number	HE551497-JAC-ENV-SCHW-SK-GI-0010		

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**FIGURE 12.4**

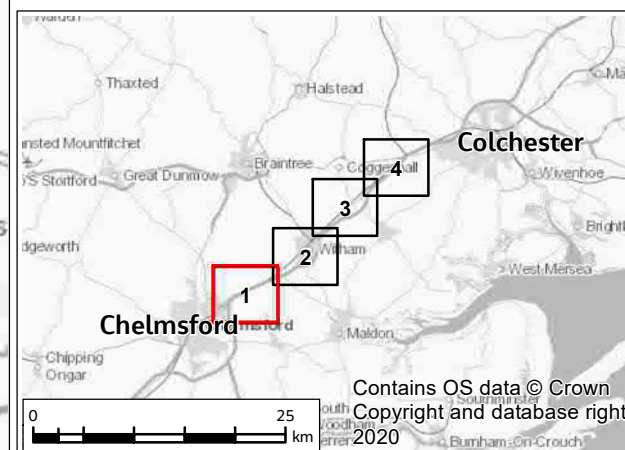


**Legend**

- Proposed Scheme Centreline
- ⋯ Operational Noise Study Area
- Existing Noise Barriers
- Proposed Noise Barriers

**Do Something Opening Year  $L_{A10,18h}$  dB**

- <math><35</math>
- 35 to 40
- 40 to 45
- 45 to 50
- 50 to 55
- 55 to 60
- 60 to 65
- 65 to 70
- 70 to 75
- 75 to 80
- >85



PO1	08/04/21	For consultation	AD	FR	RS	SG
Rev.	Rev. Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd

Contractor		Designer	
Client			

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

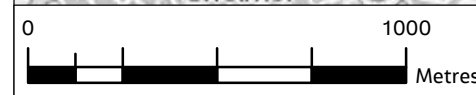
Drawing Title: **PEIR DO-SOMETHING 2027 OPENING YEAR NOISE CONTOURS AND EXISTING AND PROPOSED NOISE BARRIERS SHEET 1 OF 4**

Drawing Status: **S4 - SUITABLE FOR STAGE APPROVAL**

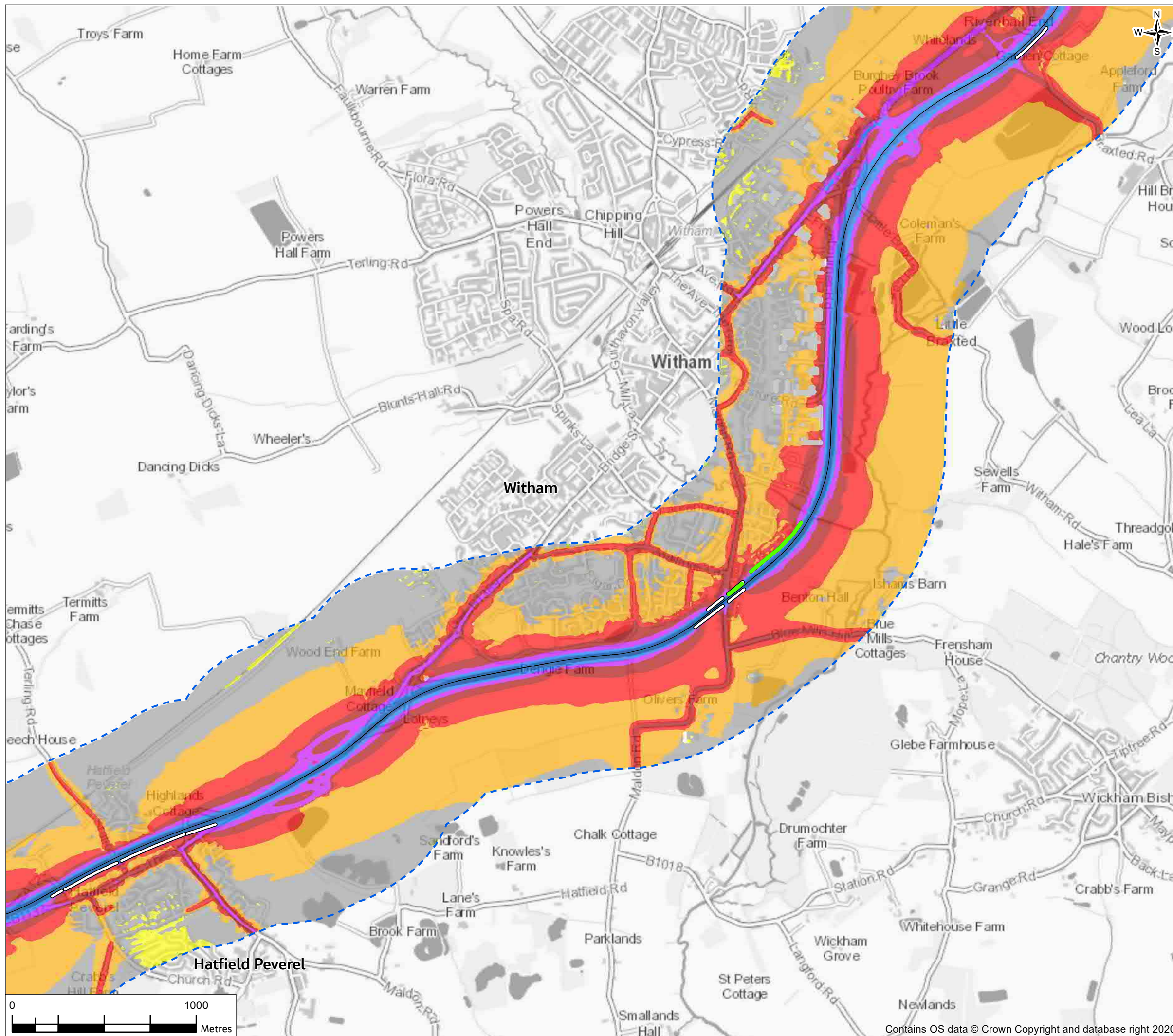
Scale @ A3	1:20000	DO NOT SCALE
Jacobs No.	B36601D1	Rev P01
Client No.	HE551497	

Drawing Number: **HE551497-JAC-ENV-SCHW-SK-GI-0011**

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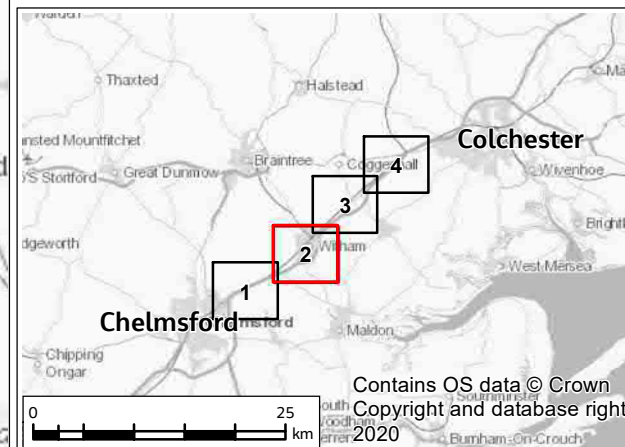


**FIGURE 12.4**




**Legend**

- Proposed Scheme Centreline
  - - - Operational Noise Study Area
  - Existing Noise Barriers
  - Proposed Noise Barriers
- Do Something Opening Year  $L_{A10,18h}$  dB**
- <35
  - 35 to 40
  - 40 to 45
  - 45 to 50
  - 50 to 55
  - 55 to 60
  - 60 to 65
  - 65 to 70
  - 70 to 75
  - 75 to 80
  - 80 to 85
  - >85



P01	08/04/21	For consultation	AD	FR	RS	SG
Rev.	Rev. Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd

	<b>Designer</b> <b>JACOBS</b> Cottons Centre, Cottons Lane, London, SE1 2QG, UK. Tel: +44 (0)20 3980 2000 www.jacobs.com
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**Client**



**Project**

A12 CHELMSFORD TO A120 WIDENING SCHEME

**Drawing Title**

PEIR  
 DO-SOMETHING 2027 OPENING YEAR NOISE CONTOURS  
 AND EXISTING AND PROPOSED NOISE BARRIERS  
 SHEET 2 OF 4

**Drawing Status**

S4 - SUITABLE FOR STAGE APPROVAL

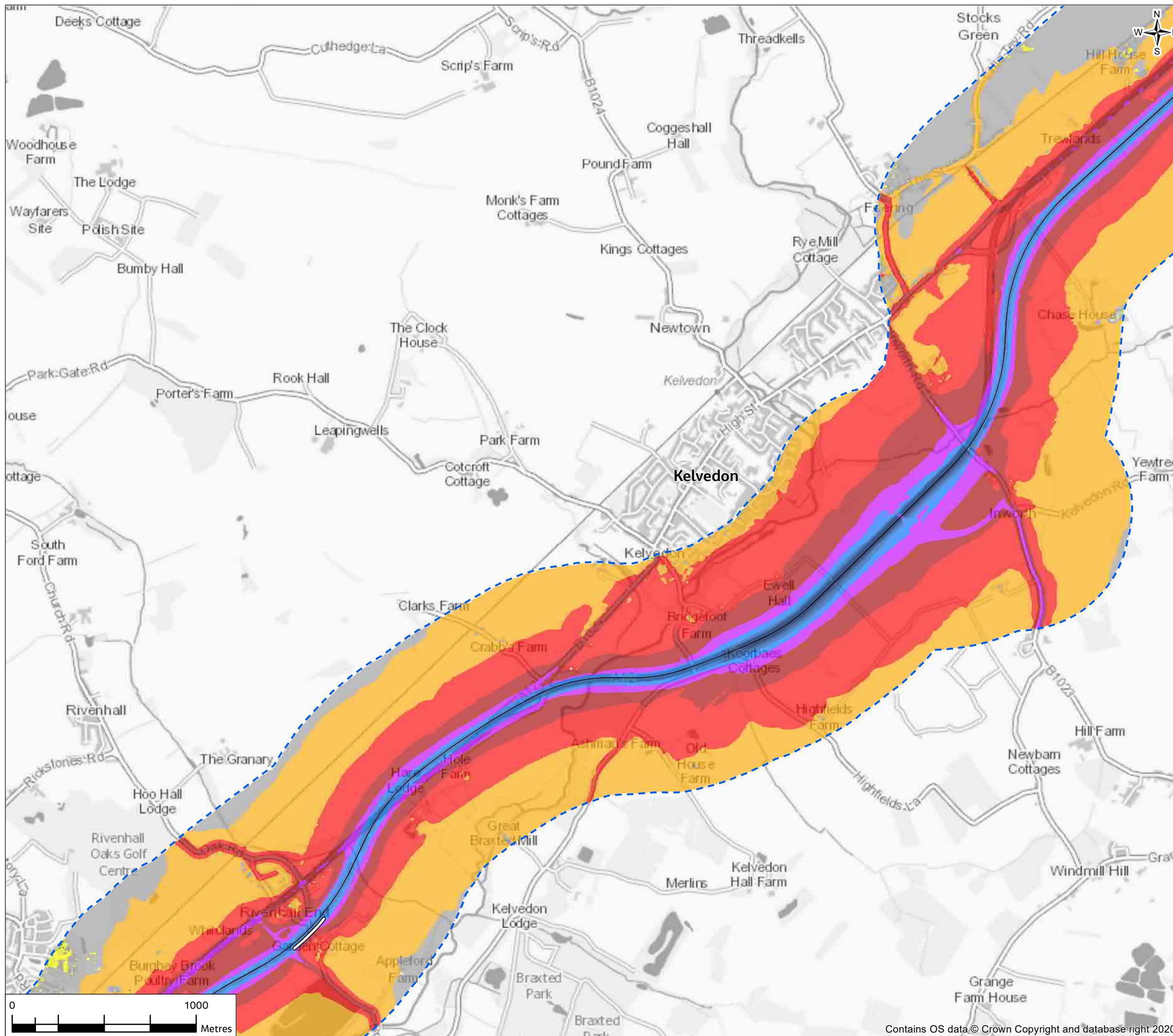
Scale @ A3	1:20000	DO NOT SCALE
Jacobs No.	B36601D1	
Client No.	HE551497	Rev P01

**Drawing Number**

HE551497-JAC-ENV-SCHW-SK-GI-0012

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**FIGURE 12.4**

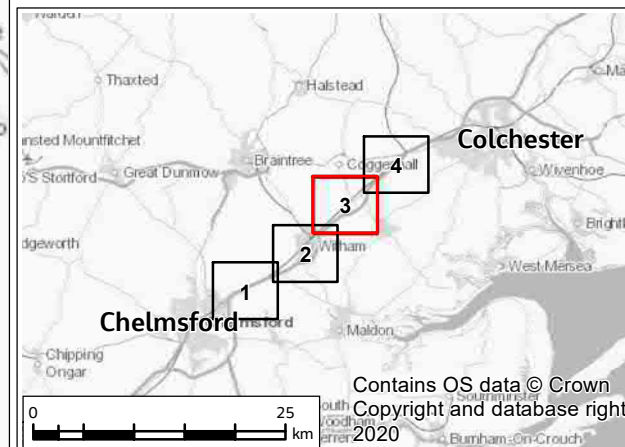


**Legend**

- Proposed Scheme Centreline
- - - Operational Noise Study Area
- Existing Noise Barriers
- Proposed Noise Barriers

**Do Something Opening Year  $L_{A10,18h}$  dB**

- <35
- 35 to 40
- 40 to 45
- 45 to 50
- 50 to 55
- 55 to 60
- 60 to 65
- 65 to 70
- 70 to 75
- 75 to 80
- >85



PO1	08/04/21	For consultation	AD	FR	RS	SG
Rev.	Rev. Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd

Contractor		Designer	
Client			

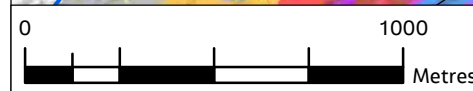
Client: highways england

Project: A12 CHELMSFORD TO A120 WIDENING SCHEME

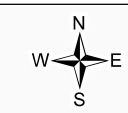
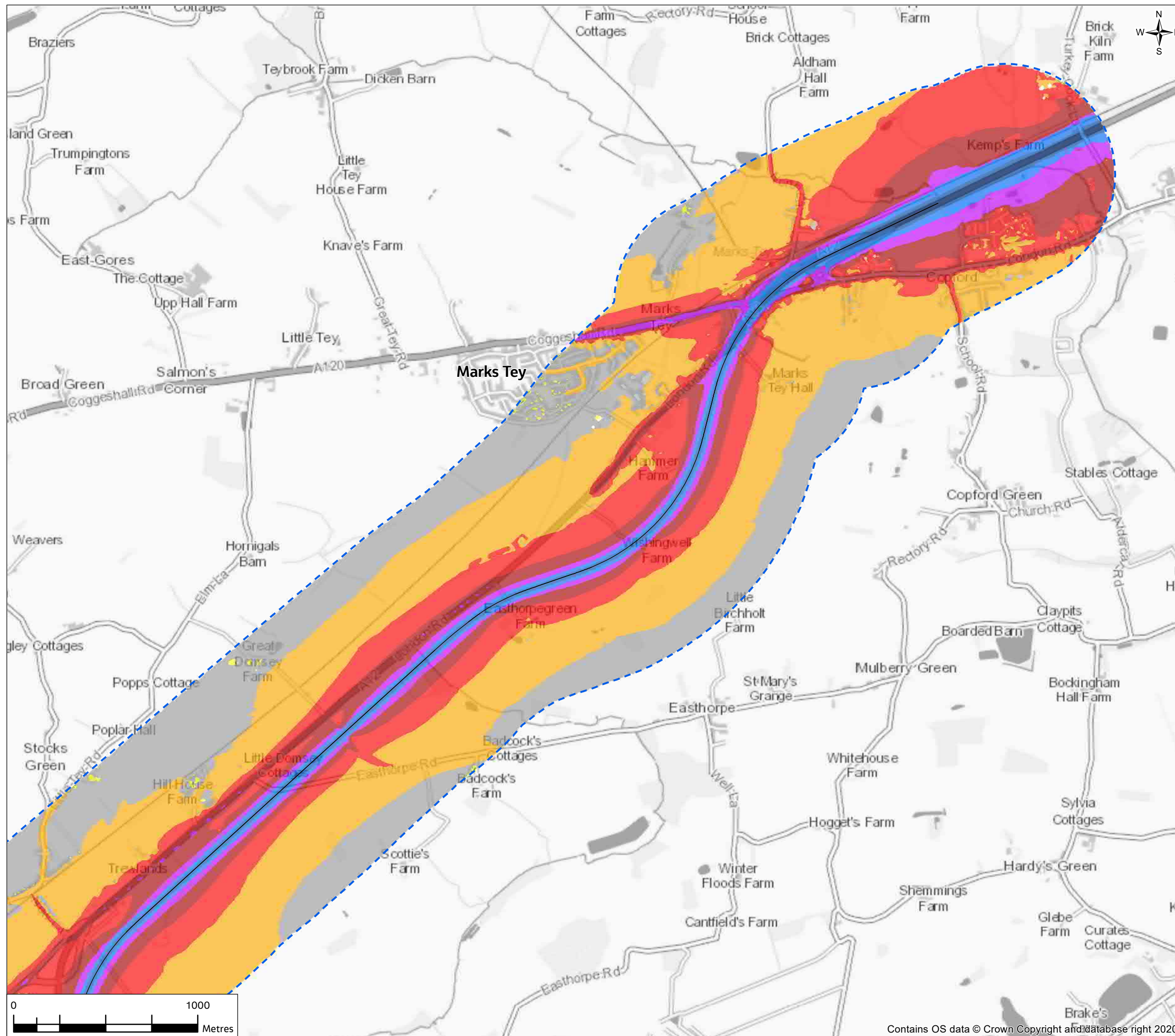
Drawing Title: PEIR  
DO-SOMETHING 2027 OPENING YEAR NOISE CONTOURS AND EXISTING AND PROPOSED NOISE BARRIERS  
SHEET 3 OF 4

Drawing Status	S4 - SUITABLE FOR STAGE APPROVAL		
Scale @ A3	1:20000	DO NOT SCALE	
Jacobs No.	B36601D1	Rev	P01
Client No.	HE551497		
Drawing Number	HE551497-JAC-ENV-SCHW-SK-GI-0013		

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**FIGURE 12.4**

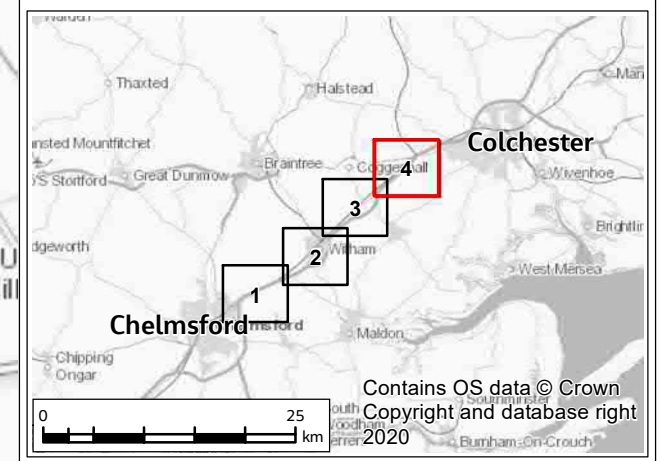


**Legend**

- Proposed Scheme Centreline
- - - Operational Noise Study Area
- Existing Noise Barriers
- Proposed Noise Barriers

**Do Something Opening Year L<sub>A10,18h</sub> dB**

- <35
- 35 to 40
- 40 to 45
- 45 to 50
- 50 to 55
- 55 to 60
- 60 to 65
- 65 to 70
- 70 to 75
- 75 to 80
- >85



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Rev.	Rev. Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd

	<b>Designer</b> <b>Jacobs</b> <small>Cottons Centre, Cottons Lane, London, SE1 2QG, UK                  Tel: +44 (0)20 3980 2000                  www.jacobs.com</small>
--	--

**Client**

**Project**

**A12 CHELMSFORD TO A120 WIDENING SCHEME**

**Drawing Title**

**PEIR  
DO-SOMETHING 2027 OPENING YEAR NOISE CONTOURS  
AND EXISTING AND PROPOSED NOISE BARRIERS  
SHEET 4 OF 4**

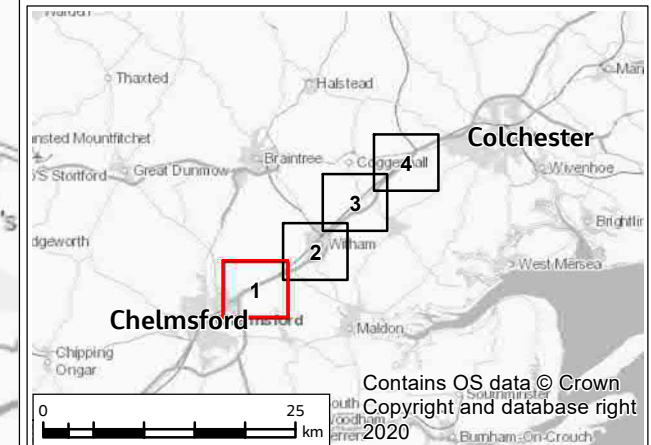
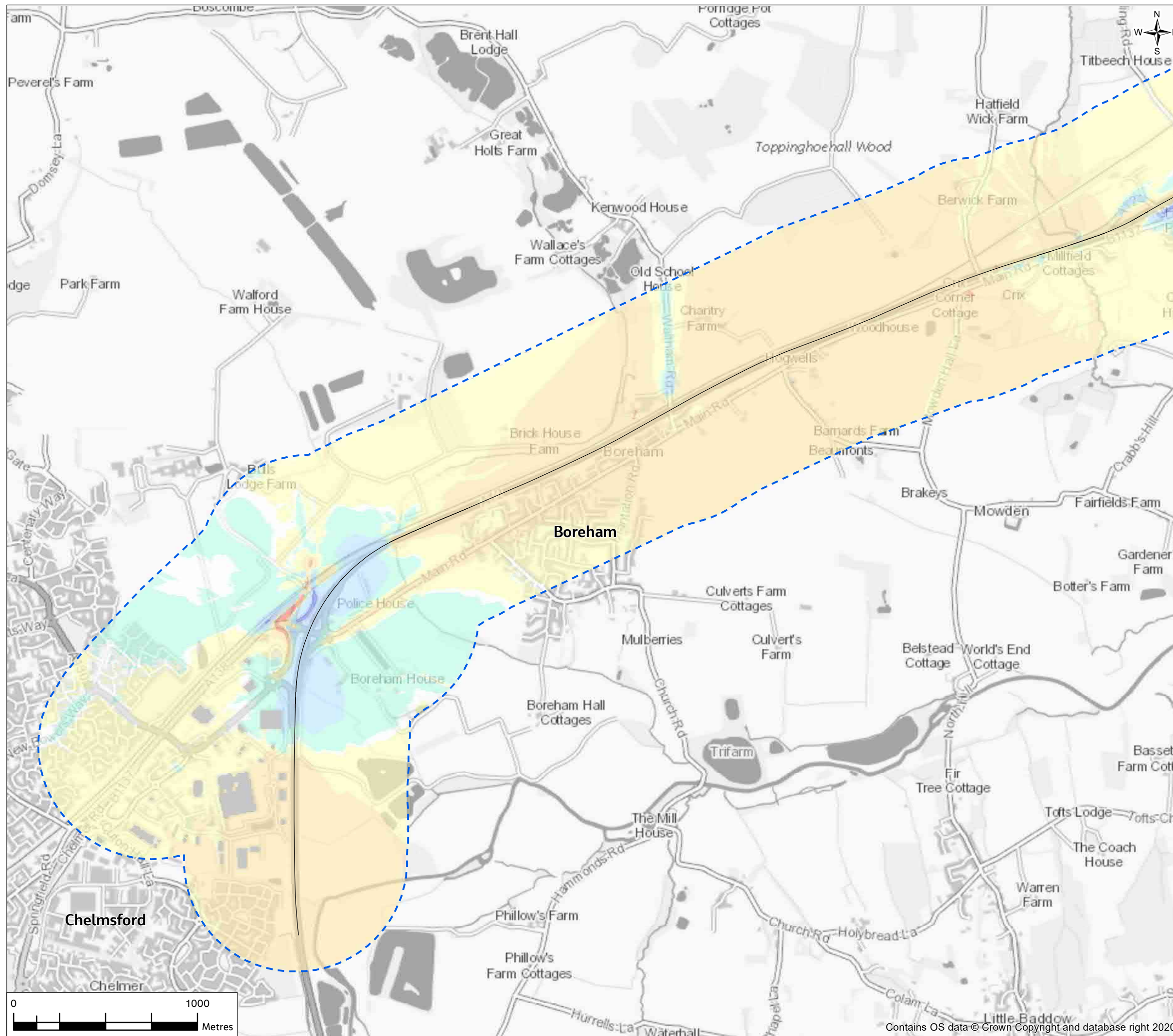
<b>Drawing Status</b>	S4 - SUITABLE FOR STAGE APPROVAL	
<b>Scale @ A3</b>	1:20000	DO NOT SCALE
<b>Jacobs No.</b>	B36601D1	Rev P01
<b>Client No.</b>	HE551497	
<b>Drawing Number</b>	HE551497-JAC-ENV-SCHW-SK-GI-0014	

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**FIGURE 12.5**

**Legend**

- Proposed Scheme Centreline
- - - Operational Noise Study Area
- Noise Change  $L_{A10,18h}$  dB for the Daytime
- ≤ -5.0dB
- 4.9 to -3.0dB
- 2.9 to -1dB
- 0.9 to -0.1dB
- 0dB
- 0.1 to 0.9dB
- 1.0 to 2.9dB
- 3.0 to 4.9 dB
- ≥ 5dB



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Contractor		Designer	
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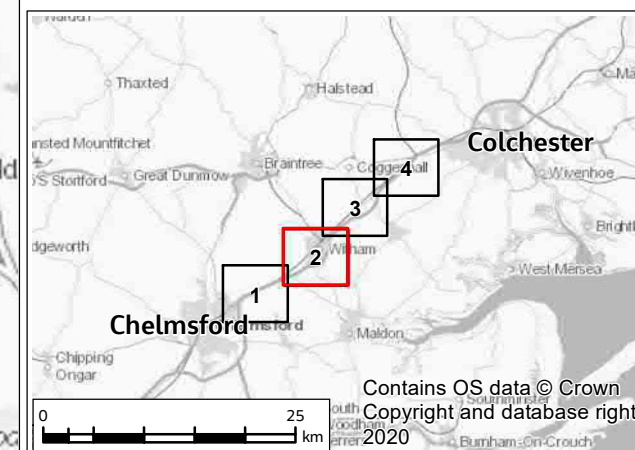
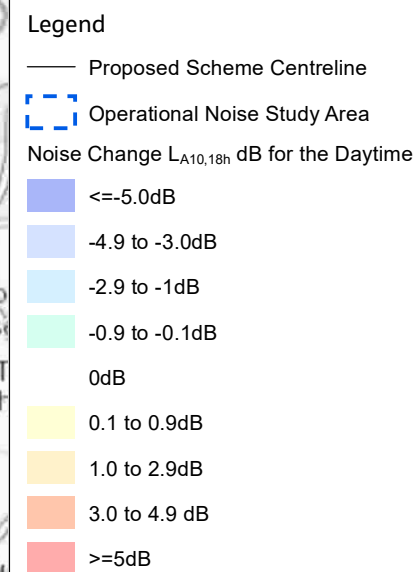
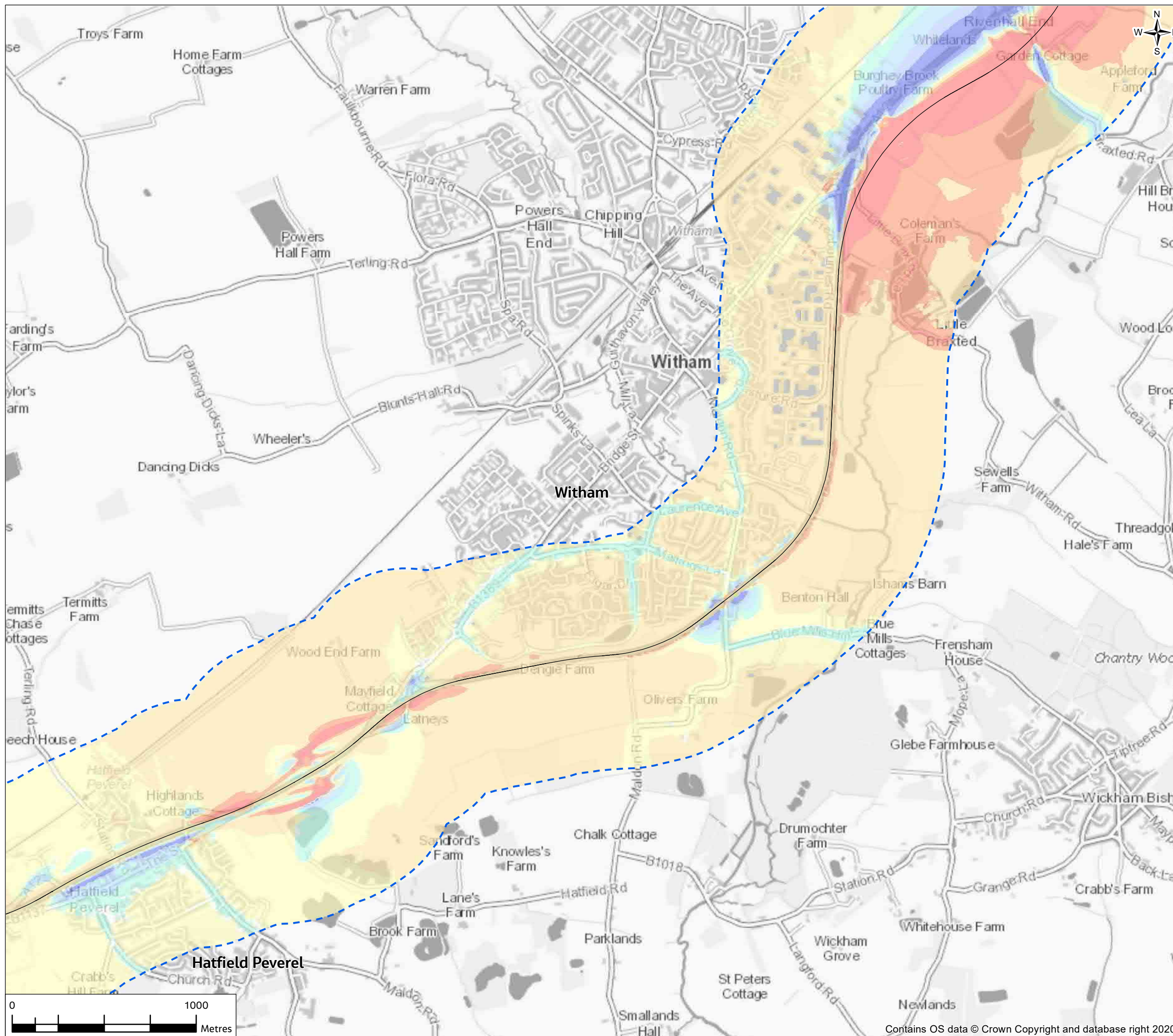
Project  
**A12 CHELMSFORD TO A120 WIDENING SCHEME**

Drawing Title  
**PEIR  
DO-MINIMUM V DO-SOMETHING  
2027 OPENING YEAR NOISE CHANGE  
SHEET 1 OF 4**

Drawing Status	S4 - SUITABLE FOR STAGE APPROVAL		
Scale @ A3	1:20000	DO NOT SCALE	
Jacobs No.	B36601D1	Rev	P01
Client No.	HE551497		
Drawing Number	HE551497-JAC-ENV-SCHW-SK-GI-0015		

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**FIGURE 12.5**



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Project

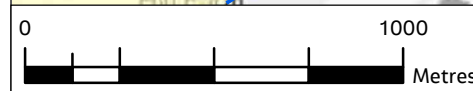
**A12 CHELMSFORD TO A120 WIDENING SCHEME**

Drawing Title

**PEIR  
DO-MINIMUM V DO-SOMETHING  
2027 OPENING YEAR NOISE CHANGE  
SHEET 2 OF 4**

Drawing Status	S4 - SUITABLE FOR STAGE APPROVAL		
Scale @ A3	1:20000	DO NOT SCALE	
Jacobs No.	B36601D1	Rev	P01
Client No.	HE551497		
Drawing Number	HE551497-JAC-ENV-SCHW-SK-GI-0016		

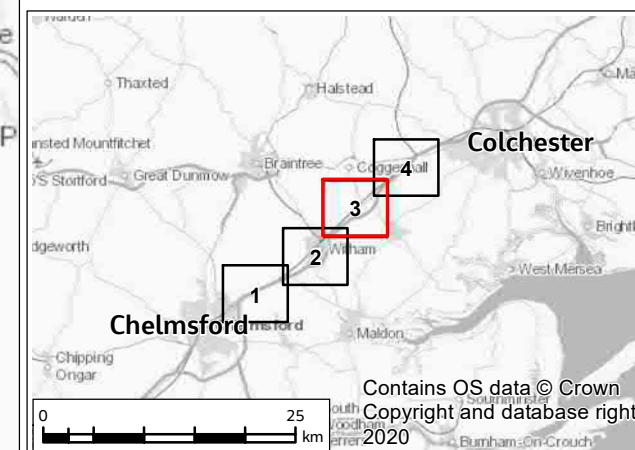
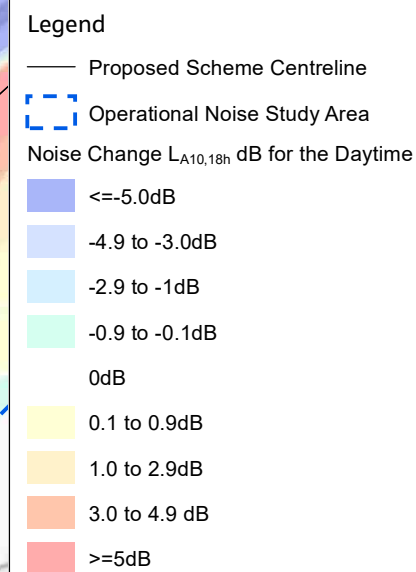
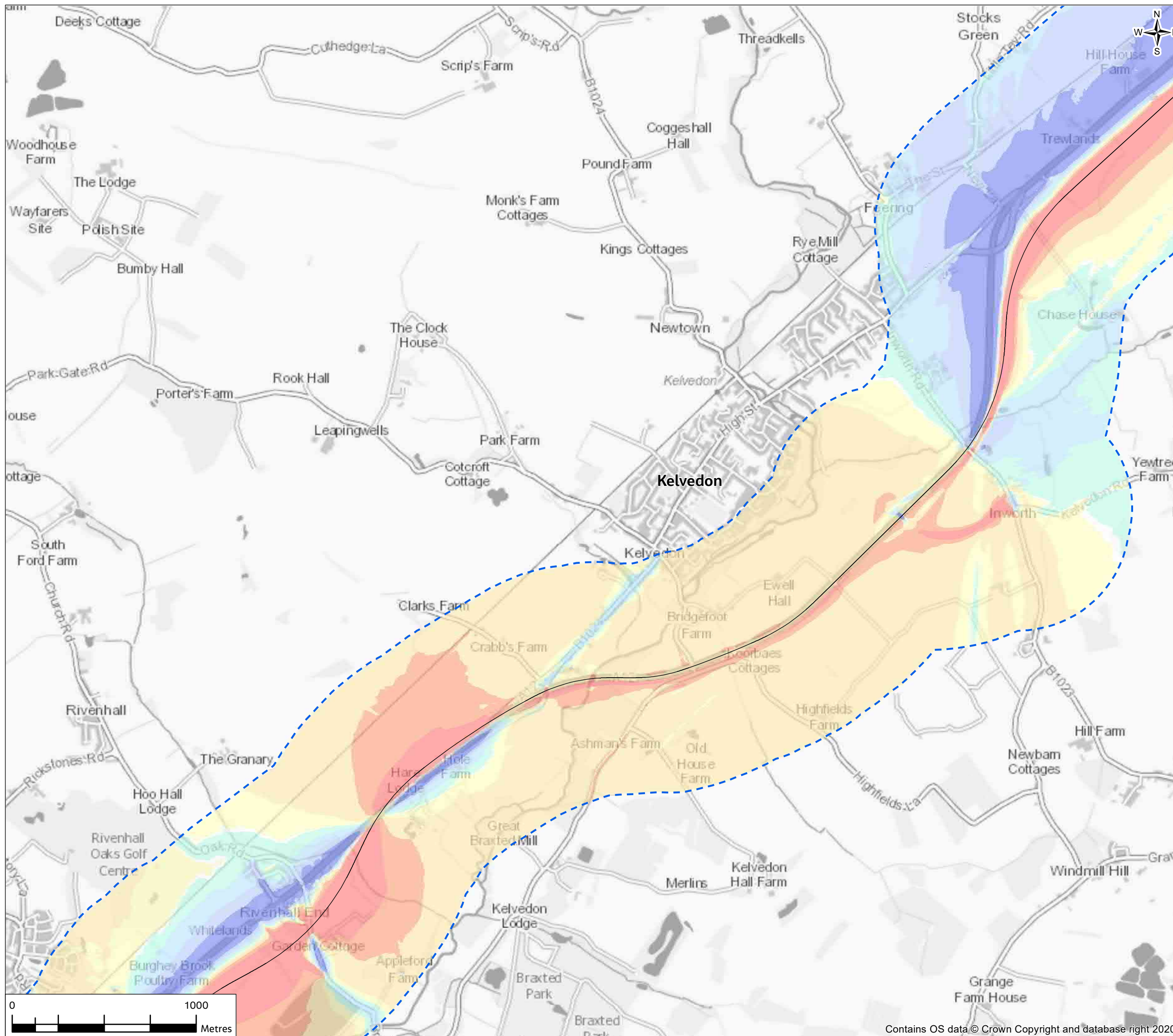
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**FIGURE 12.5**



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**A12 CHELMSFORD TO A120 WIDENING SCHEME**

Drawing Title

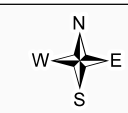
**PEIR  
DO-MINIMUM V DO-SOMETHING  
2027 OPENING YEAR NOISE CHANGE  
SHEET 3 OF 4**

Drawing Status	S4 - SUITABLE FOR STAGE APPROVAL		
Scale @ A3	1:20000	DO NOT SCALE	
Jacobs No.	B36601D1	Rev	P01
Client No.	HE551497		
Drawing Number	HE551497-JAC-ENV-SCHW-SK-GI-0017		

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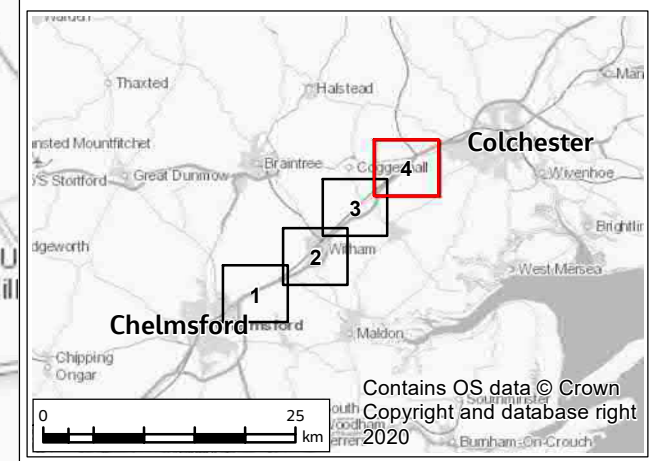
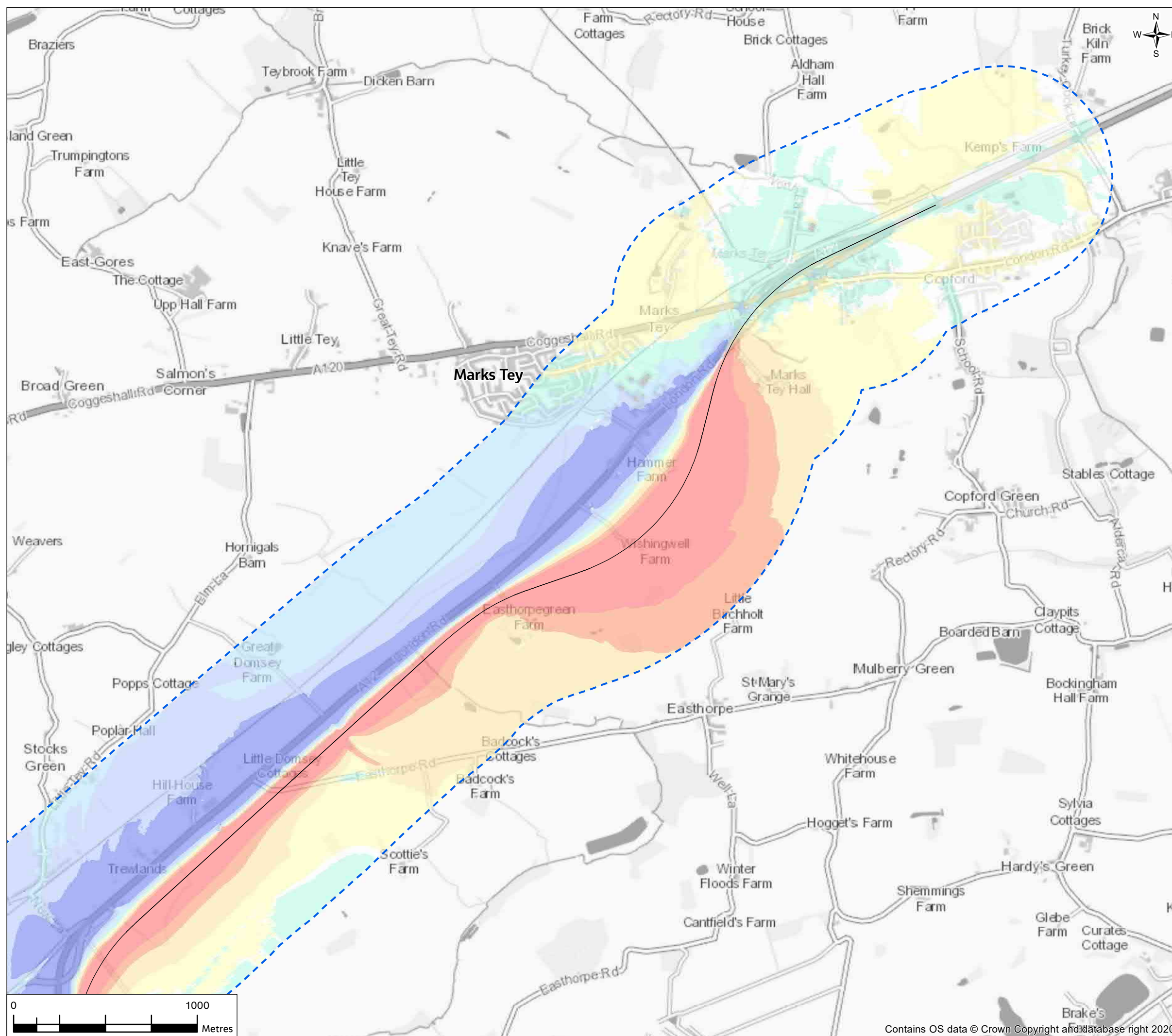


**FIGURE 12.5**



**Legend**

- Proposed Scheme Centreline
- ⋯ Operational Noise Study Area
- Noise Change  $L_{A10,18h}$  dB for the Daytime
- ≤ -5.0dB
- 4.9 to -3.0dB
- 2.9 to -1dB
- 0.9 to -0.1dB
- 0dB
- 0.1 to 0.9dB
- 1.0 to 2.9dB
- 3.0 to 4.9 dB
- ≥ 5dB



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Contractor		Designer	
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Project  
**A12 CHELMSFORD TO A120 WIDENING SCHEME**

Drawing Title  
**PEIR  
DO-MINIMUM V DO-SOMETHING  
2027 OPENING YEAR NOISE CHANGE  
SHEET 4 OF 4**

Drawing Status	S4 - SUITABLE FOR STAGE APPROVAL		
Scale @ A3	1:20000	DO NOT SCALE	
Jacobs No.	B36601D1	Rev P01	
Client No.	HE551497		
Drawing Number	HE551497-JAC-ENV-SCHW-SK-GI-0018		

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