

# Lower Thames Crossing

## 6.3 Environmental Statement Appendices Appendix 8.16 – Draft EPS mitigation licence application – bats (Tracked changes version)

(4 of 4)

APFP Regulation 5(2)(a)

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

Volume 6

**DATE: December 2023**  
**DEADLINE: 8**

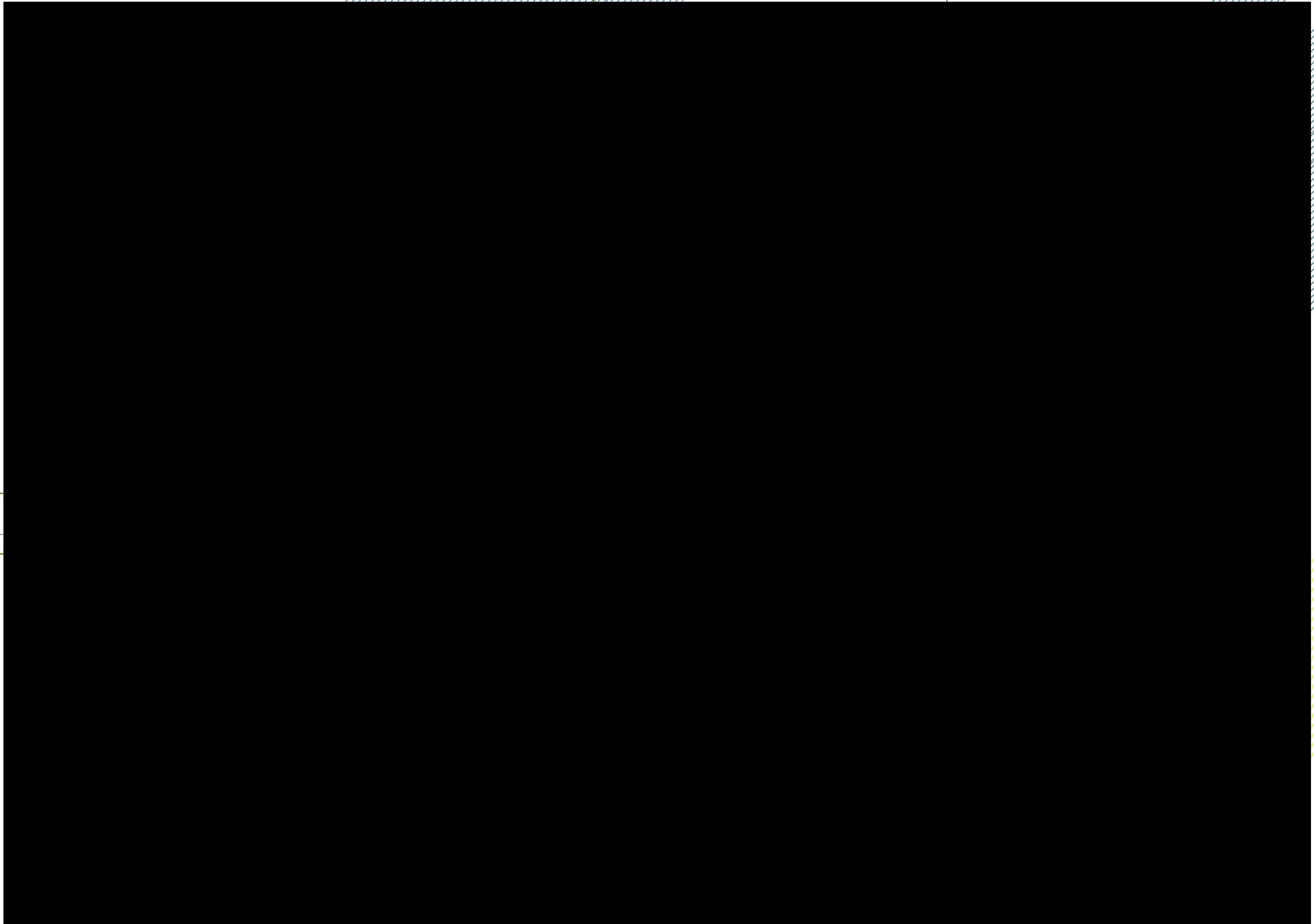
Planning Inspectorate Scheme Ref: TR010032  
Application Document Ref: TR010032/APP/6.3

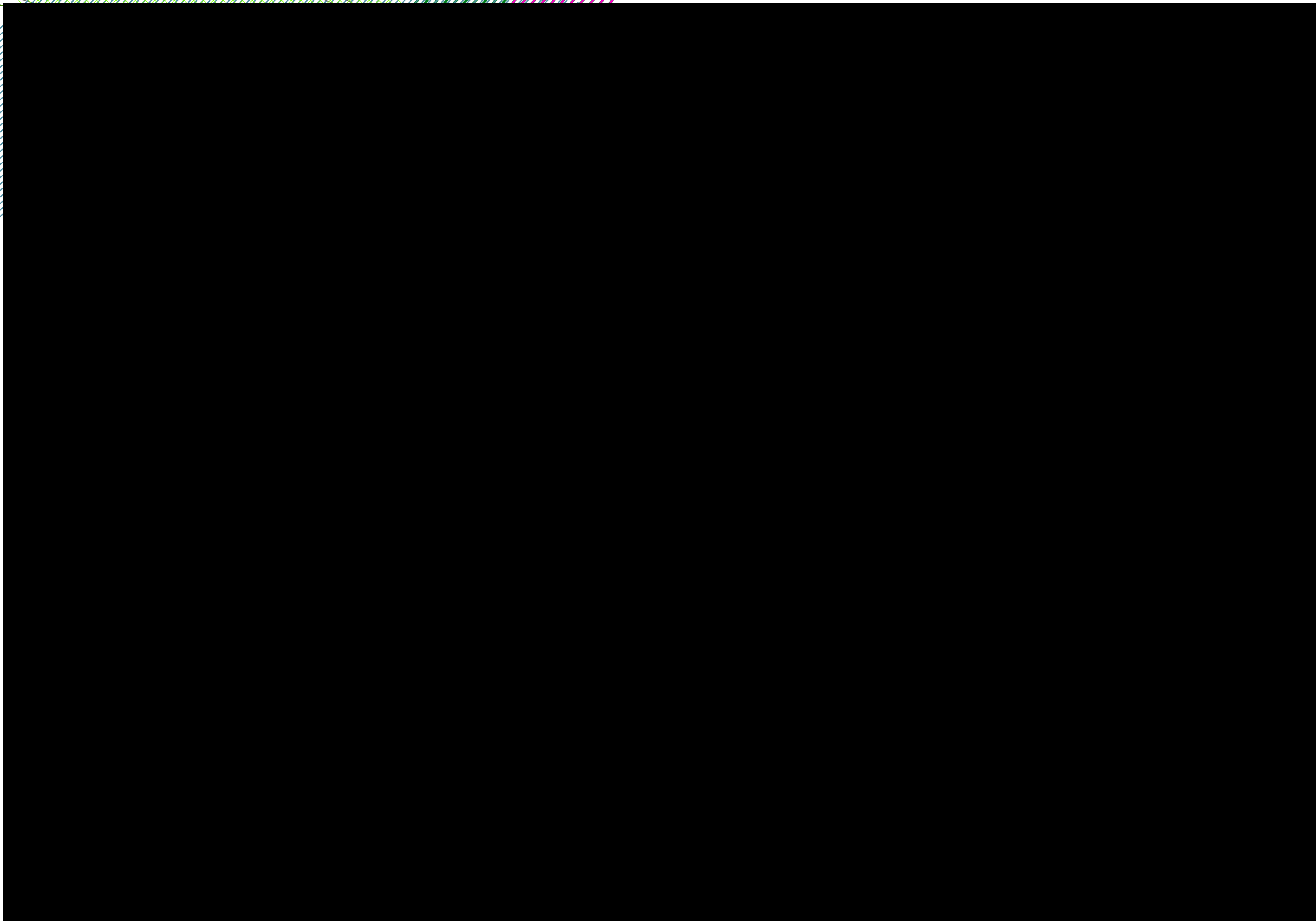
**VERSION: 2.0**

### Revision history

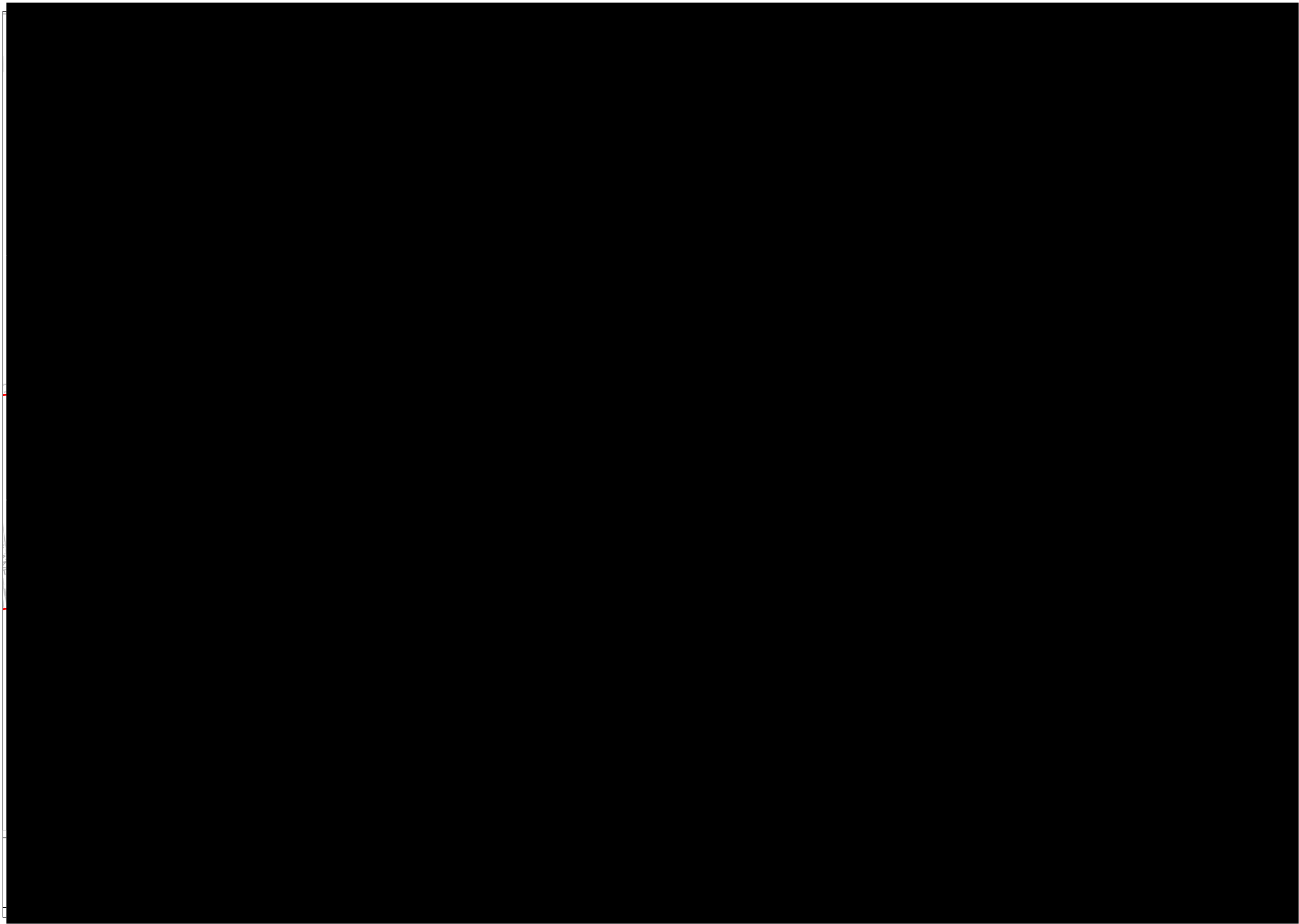
<b>Version</b>	<b>Date</b>	<b>Submitted at</b>
1.0	31 October 2022	DCO Application
2.0	5 December 2023	Deadline 8

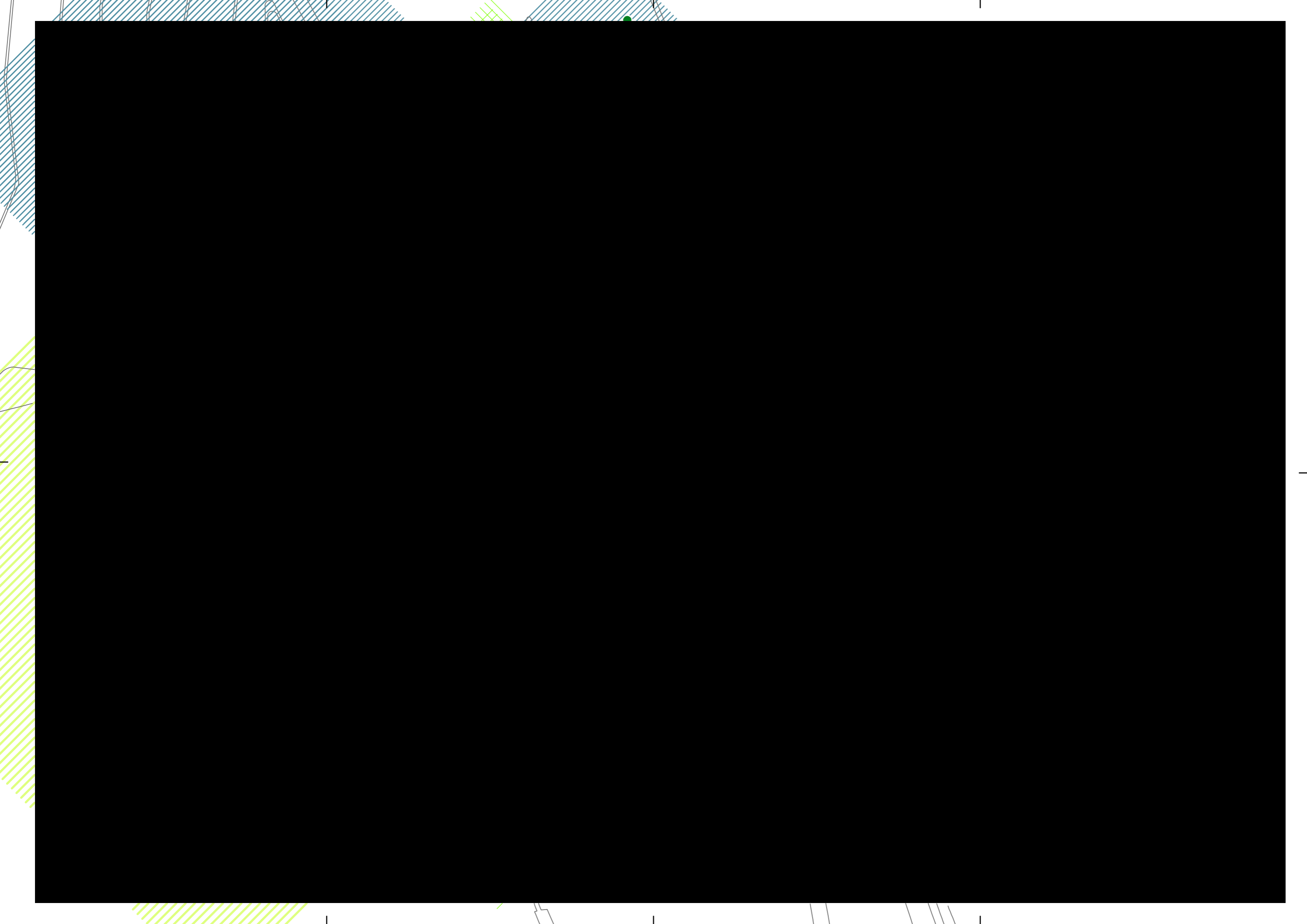




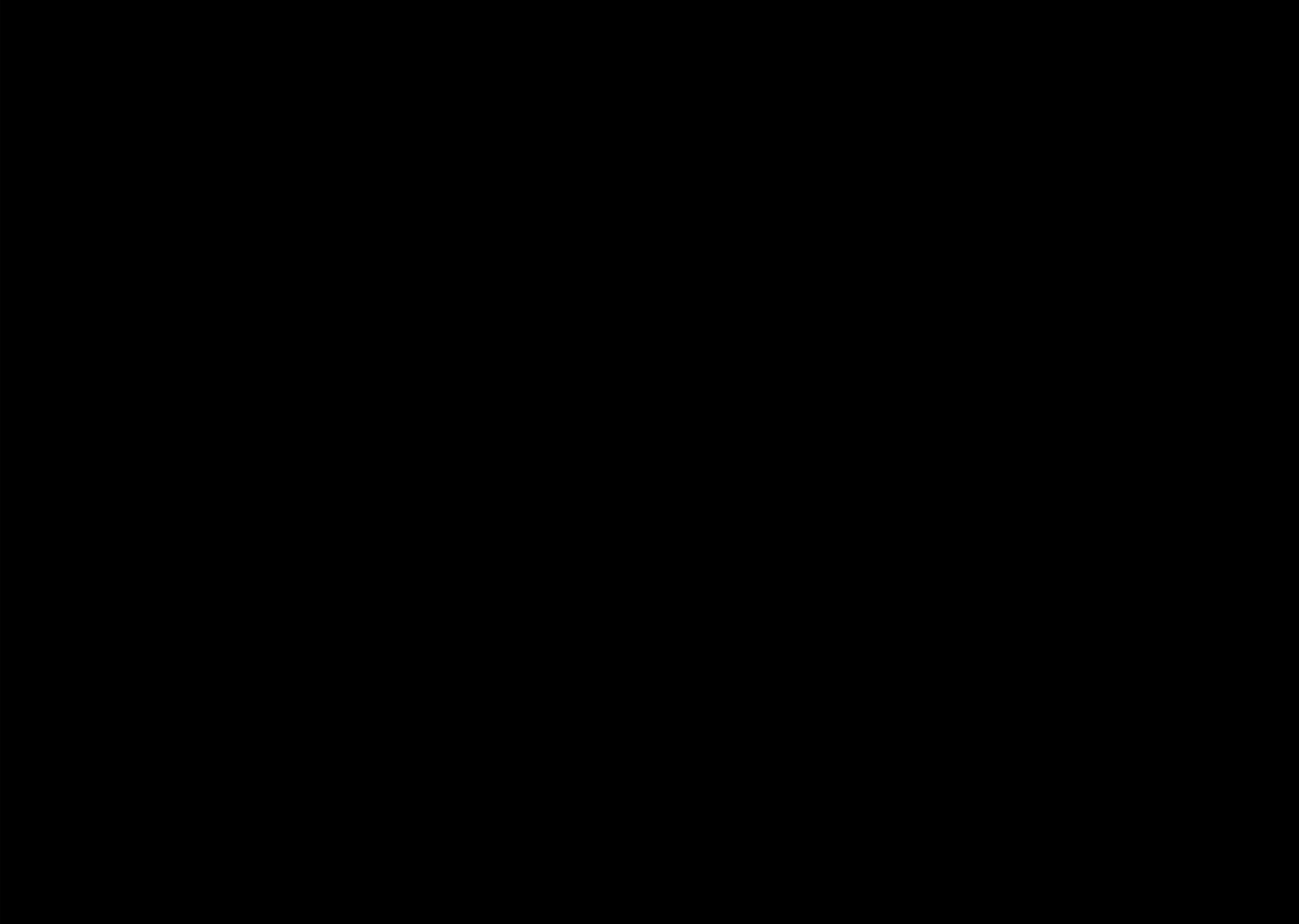


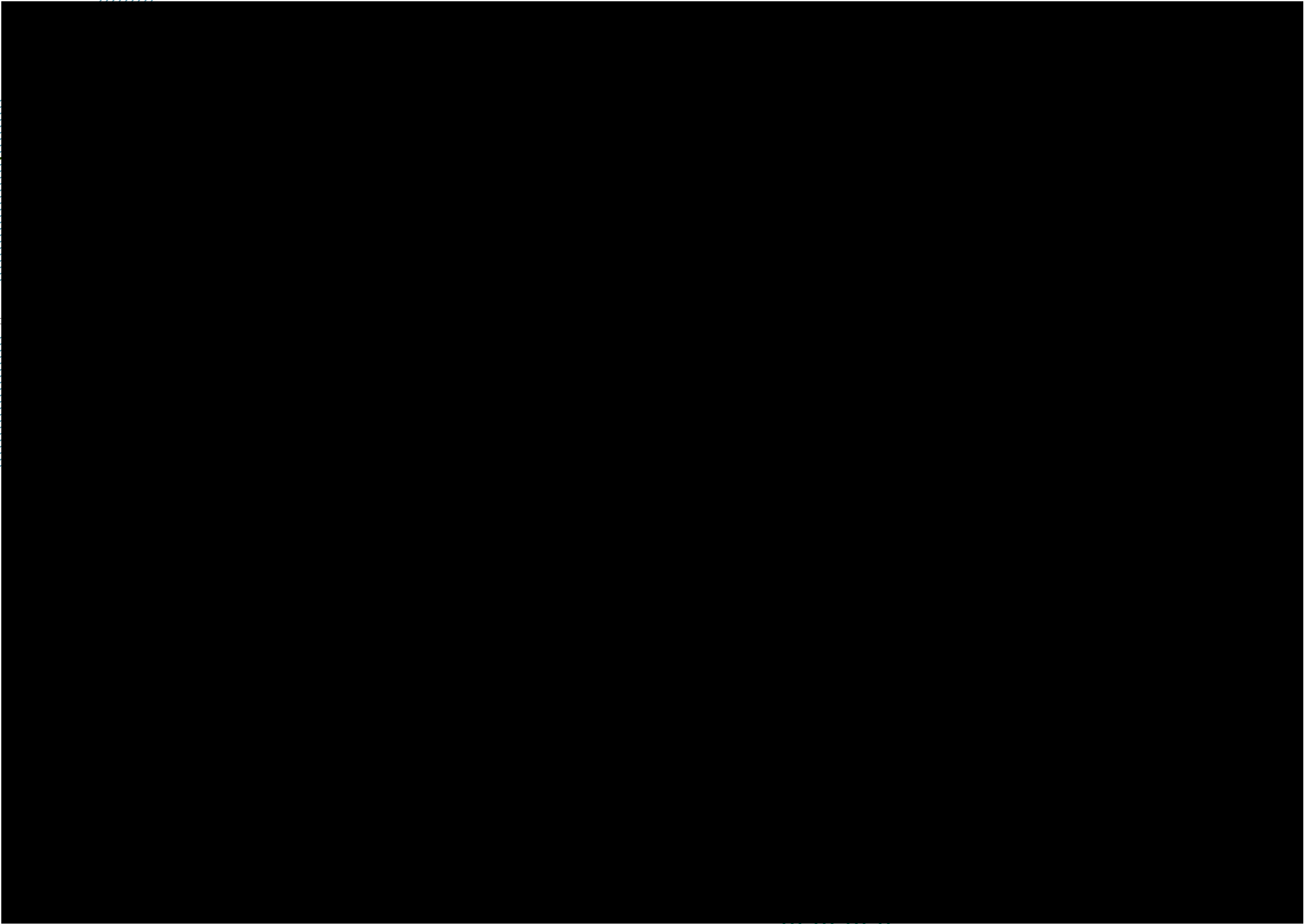


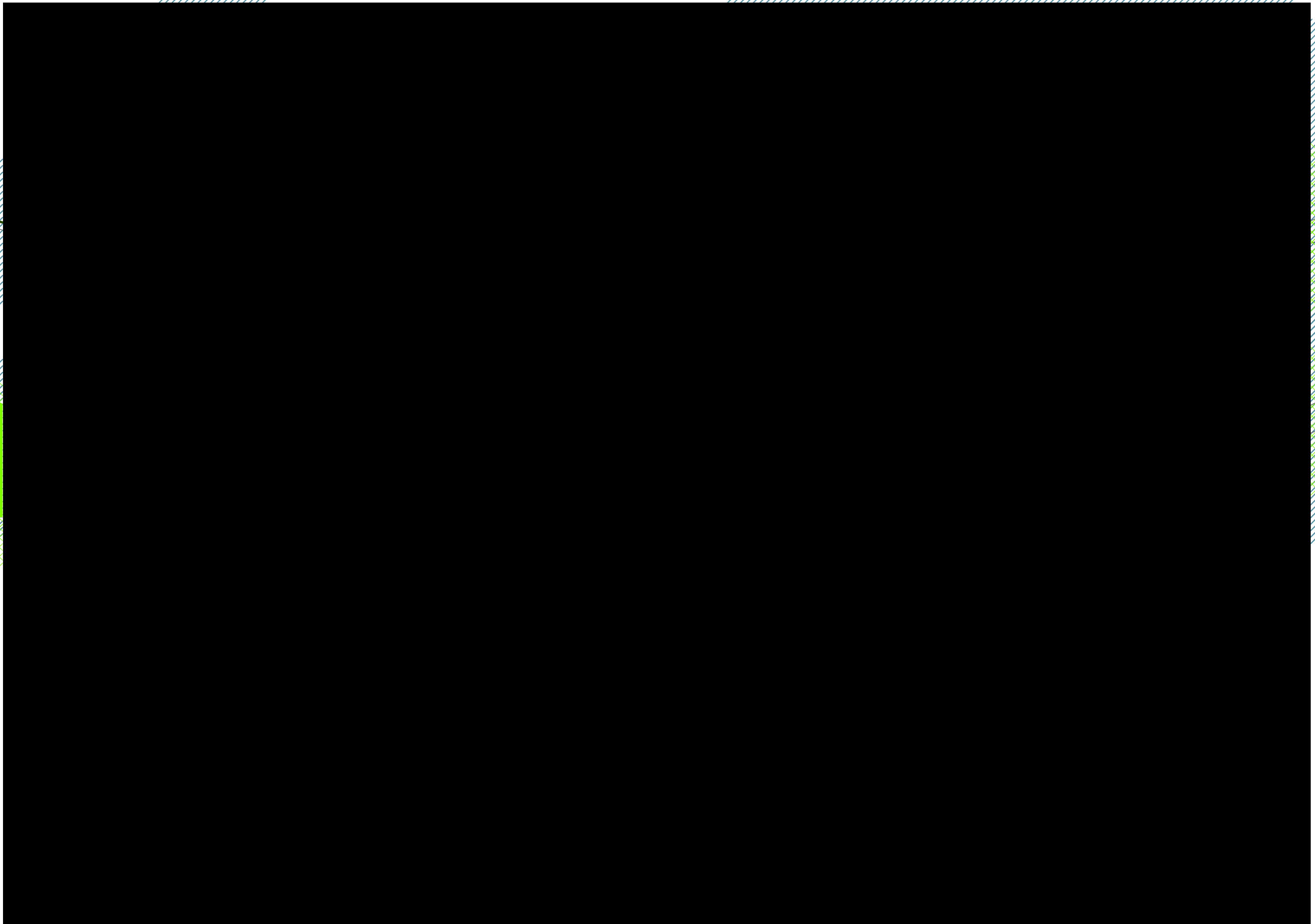


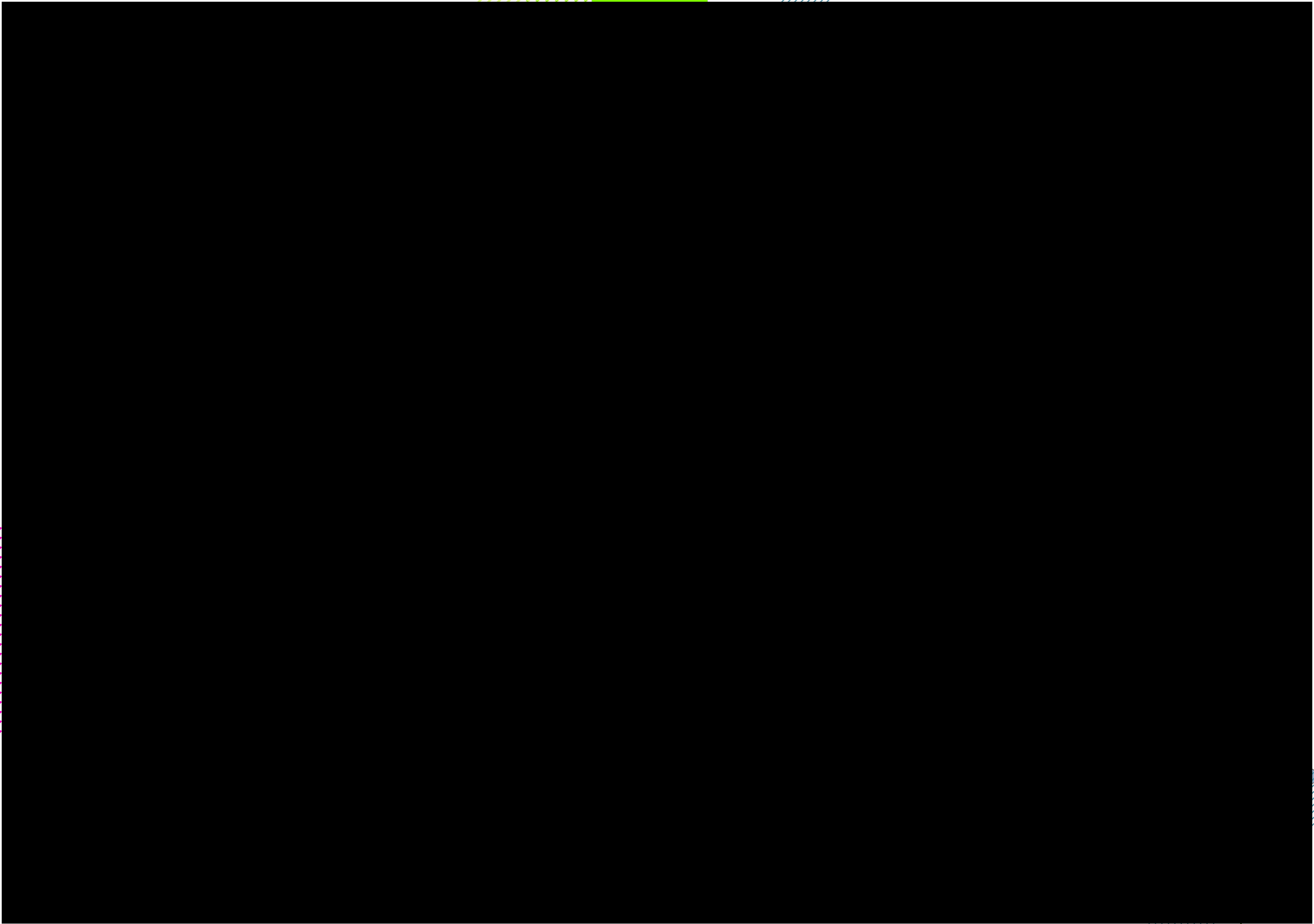


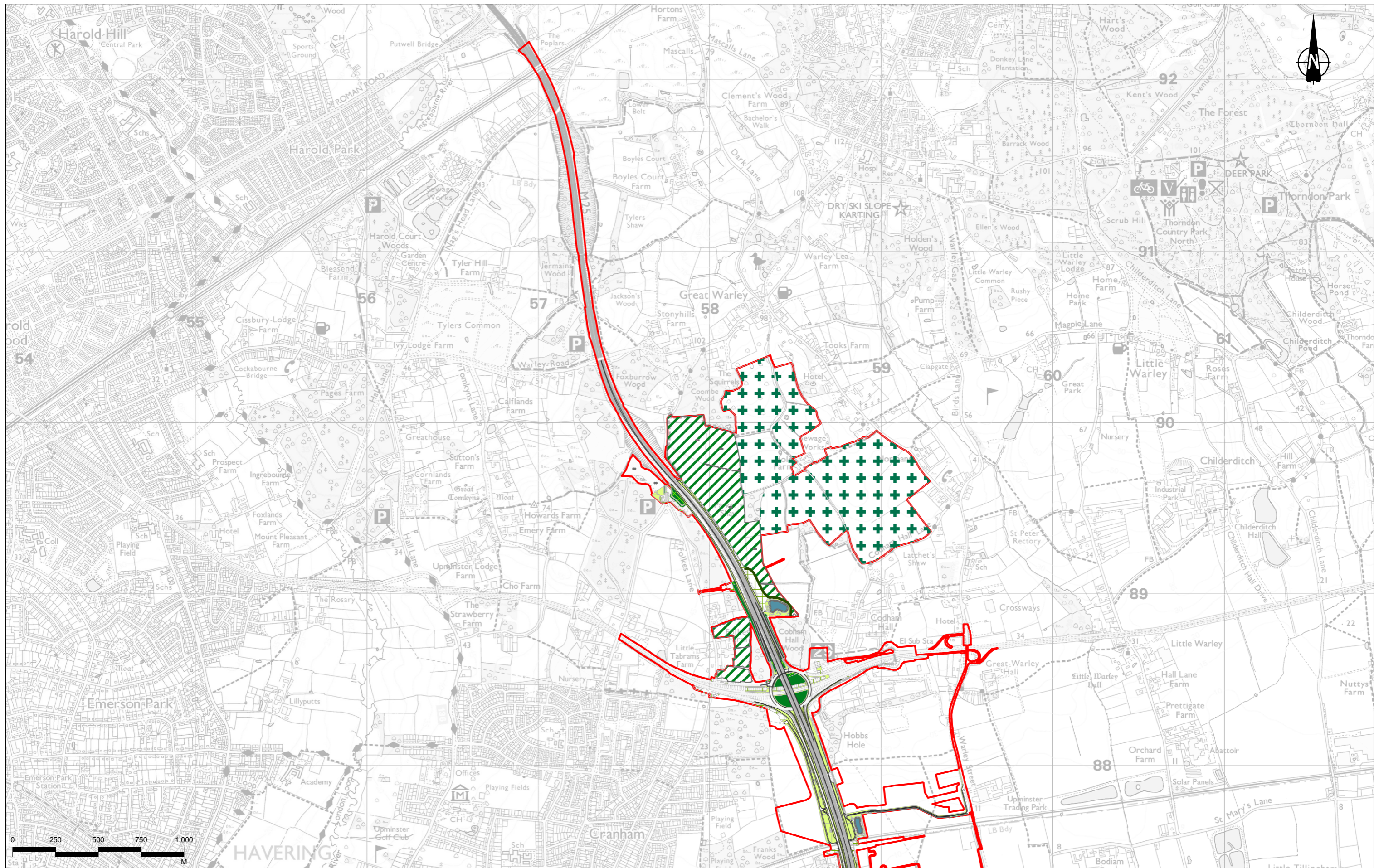












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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chkd	Appvd
P02	S8	20/10/2022	DCO Application	CD	SM	BF
P03	S9	13/07/2023	Natural England comments	CD	SM	BF
P04	S9	09/11/2023	Natural England comments	CD	SM	BF

**Legend**

	Order Limits
	Route alignment
	Sites of Special Scientific Interest
	Bat box location
	Green bridge location
	Viaduct/culvert location
	Compensation Bat Bunker
	Retained Bat Bunker to be Monitored
	Bat crossing point
	Roost temporarily excluded and disturbed
	Roost disturbed
	Roosts retained

	Leisler - maternity roost
	Noctule - maternity roost
	Soprano pipistrelle - maternity roost
	Noctule - hibernation roost

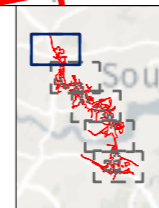
	Assumed flightline
	Mitigated flightline
	Retained flightline

**Roost retained - desk study**

	Leisler - maternity roost
	Noctule - maternity roost
	Soprano pipistrelle - maternity roost

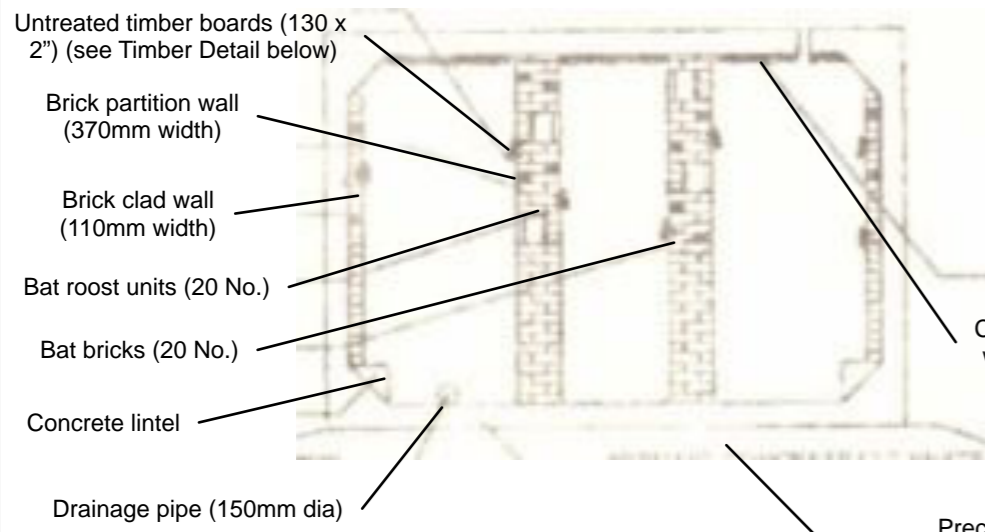
**Fightlines**

	Assumed flightline
	Mitigated flightline
	Retained flightline



Client: national highways  
 Project: LOWER THAMES CROSSING

Status	DCO APPLICATION	Original Size	A3	Revision	P04
Application Document Number	TR010032/APP/6.3	Scale	1:20,000		
Drawing Title	Figure E3 - Specifications for Mitigation/Compensation Page 19 of 19				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE0000000-DR-LE-60015				

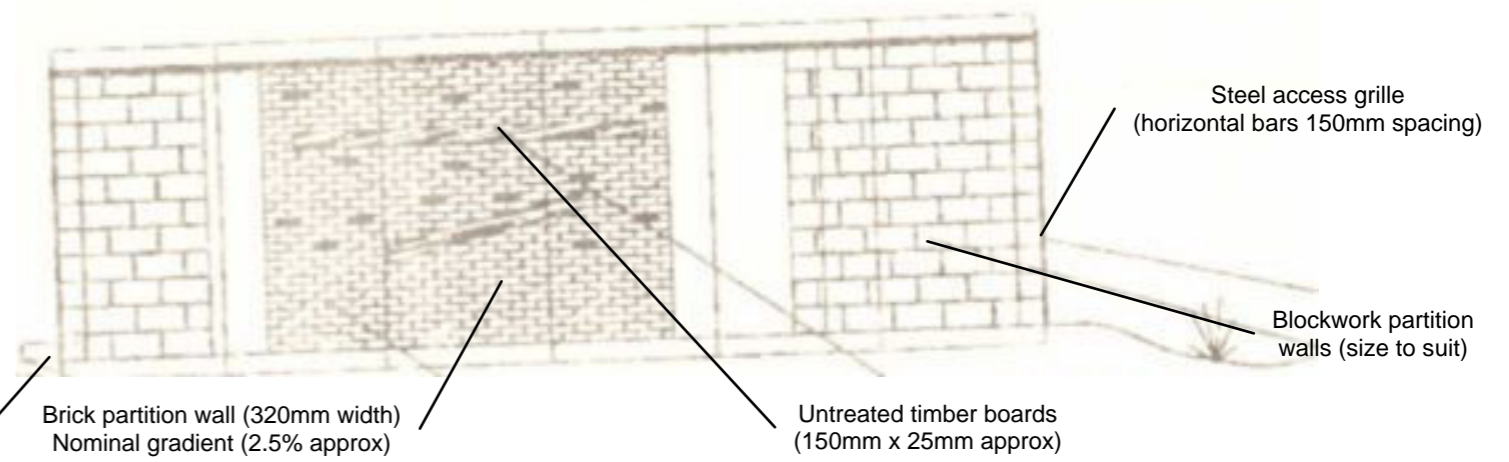


**Typical Cross Section**

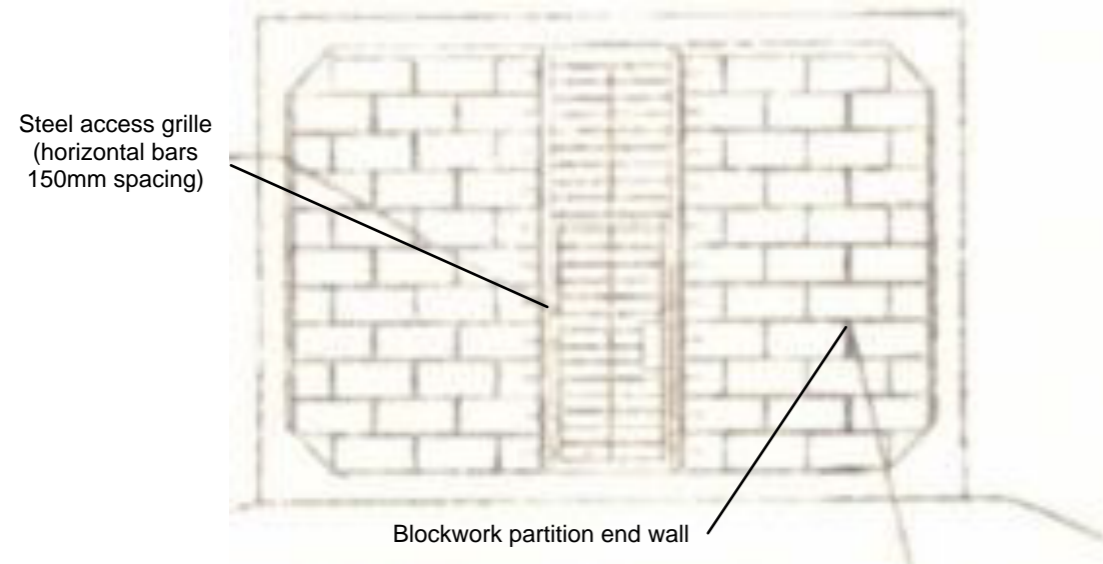
Concrete render to ceiling and unclad walls (fixing method to suit product).

Drainage pipe (250mm dia)

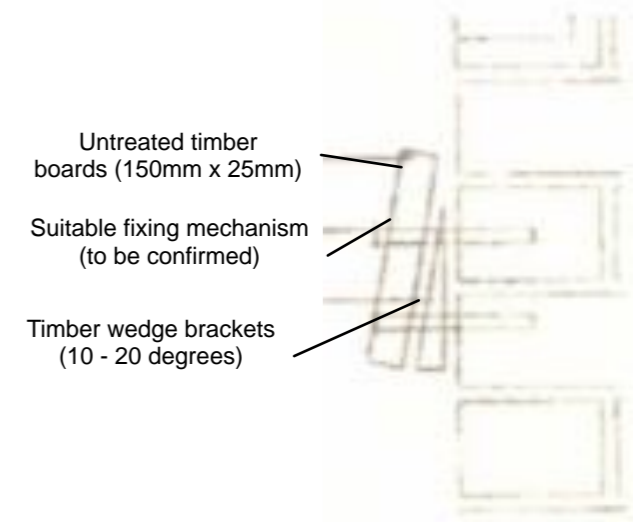
Precast concrete culverts (4000mm x 2500mm x 9000mm approx dia)



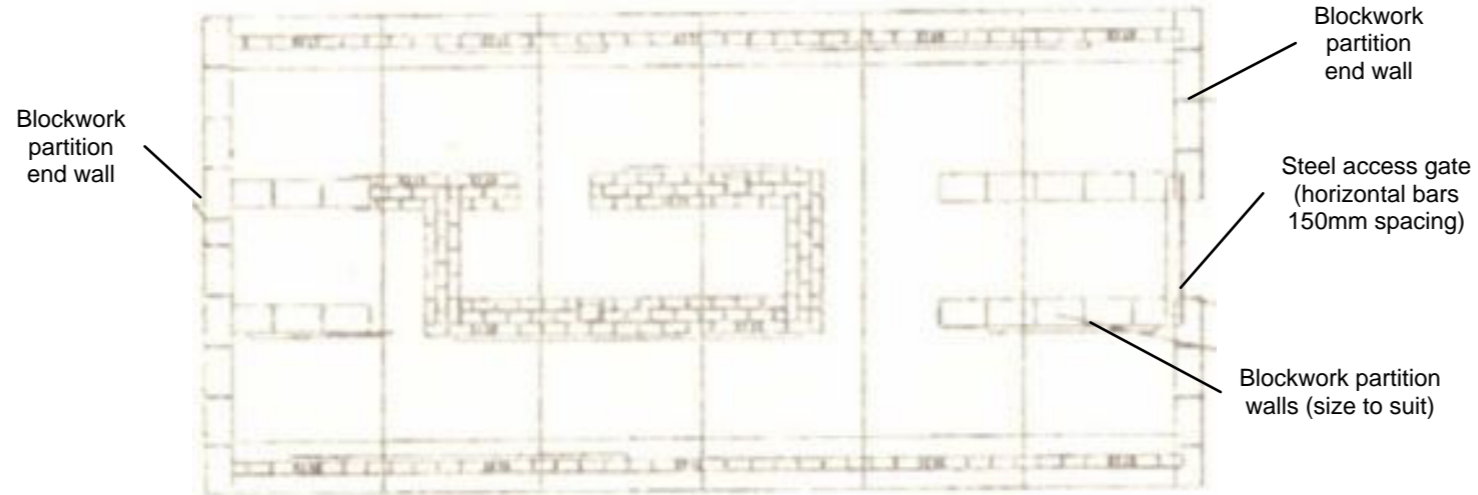
**Typical Long Section**



**End Elevation**



**Timber Detail**



**Plan**

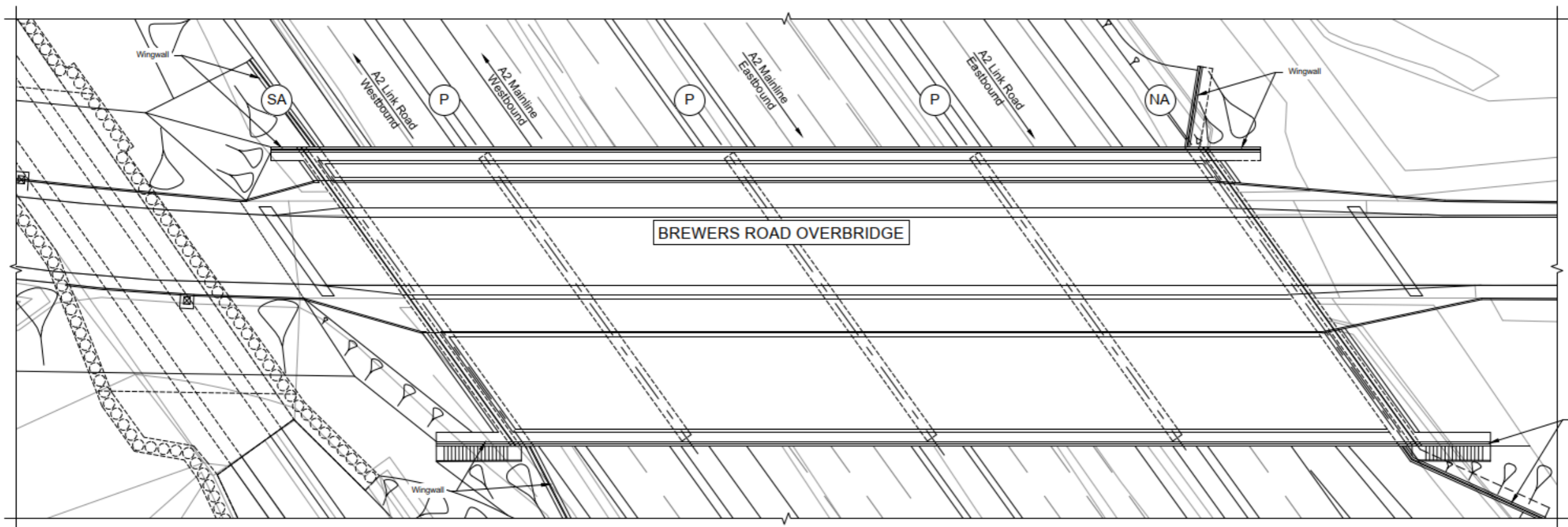
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**Notes:**

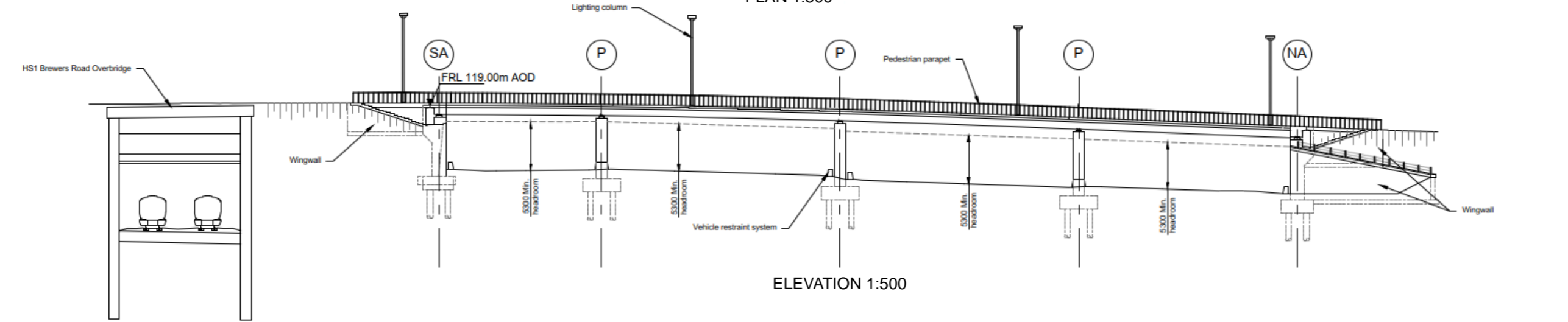
- 1) All dimensions are in metres unless otherwise Stated.
- 2) Numbered works are described in Schedule 1 (Authorised Development) of the Development Consent Order.
- 3) The works plans should be read in conjunction with the Development Consent Order and Engineering Section drawings.
- 4) Dimensions given are nominal and to be adjusted to suit fixtures and fittings.
- 5) Brickwork and blockwork not to be pointed (rough finish required).
- 6) Steel access grille to be designed and fabricated to suit door and open inwards and to be fitted with a high security dead lock.
- 7) Landscaping to be designed by others.
- 8) Refer to specific literature relating to bat roost bricks.
- 9) Culverts to be installed to the manufacturer's recommendations.
- 10) Any proposed alterations shall be approved by the licensed ecologist.

P02	S8	18/10/2022	DCO Application	CD	SM	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chkd	Apprv'd

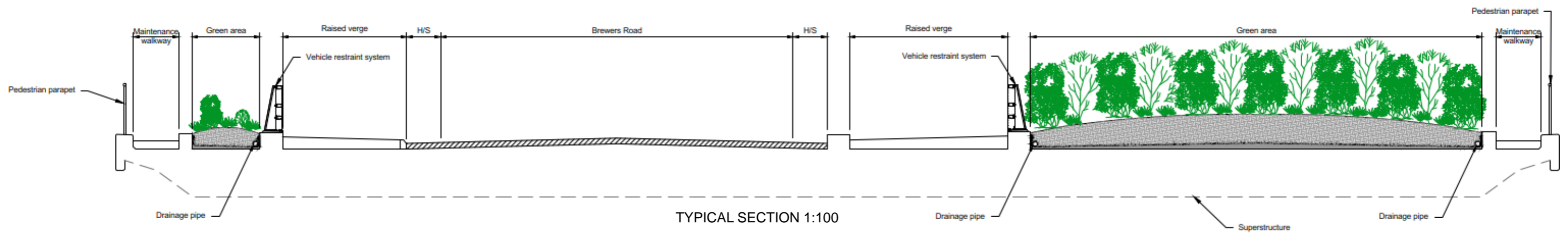
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LOWER THAMES CROSSING		Figure E3a - Specifications for Mitigation/Compensation					
		Drawing Number HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60015					



PLAN 1:500



ELEVATION 1:500



TYPICAL SECTION 1:100

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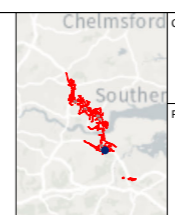
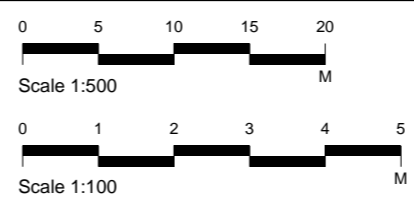
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chkd	Appr'd
P01	S8	18/11/2022	DCO Application	LK	SM	BF

LEGEND

	EMBANKMENT/CUTTING
	SOUTH ABUTMENT
	PIER
	NORTH ABUTMENT
	HARD STRIP
	FINISHED ROAD LEVEL

Notes:

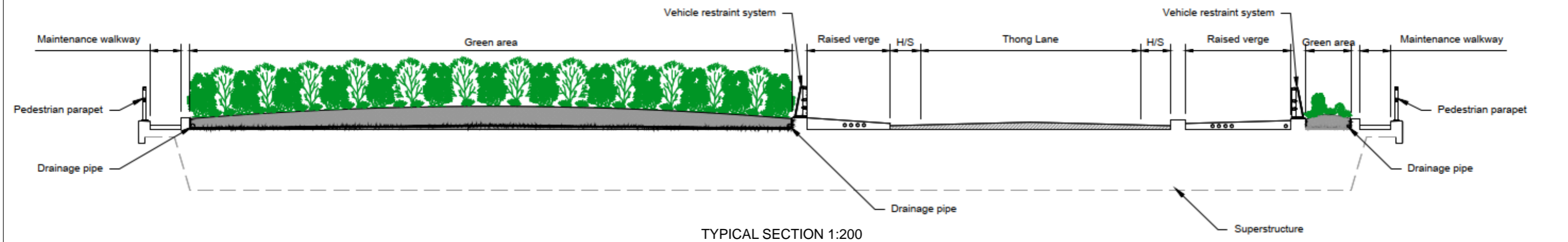
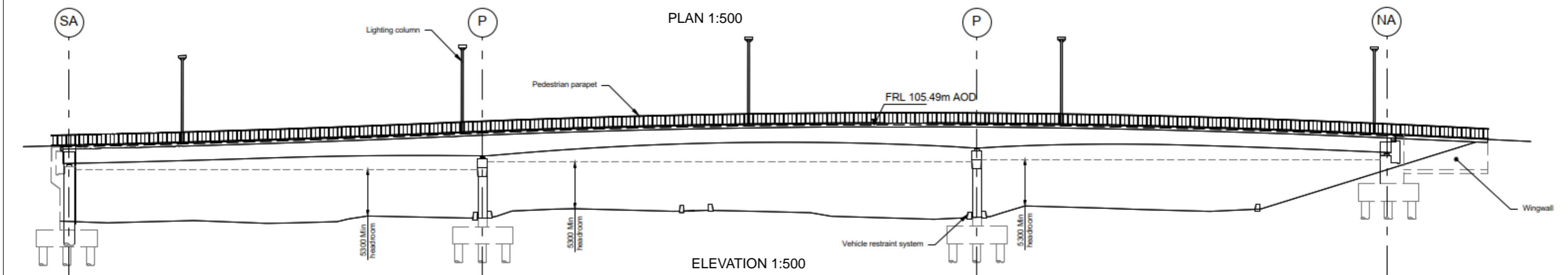
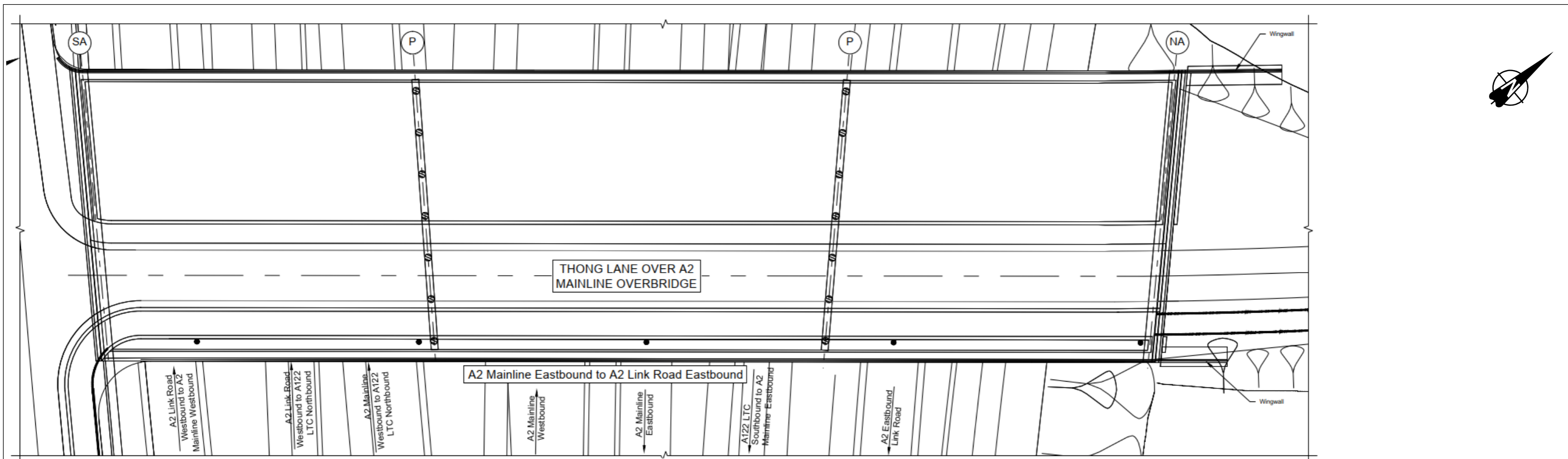
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Client: national highways

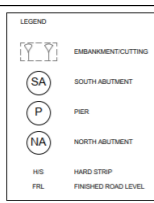
Project: LOWER THAMES CROSSING

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Drawing Number	HE540039-CJV-EBD-SZP_EGNE0000000-DR-LE-60114				

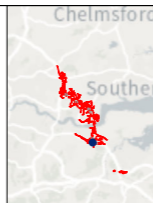
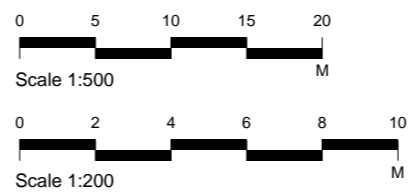


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P01	S8	18/11/2022	DCO Application	LK	SM	BF



- Notes:
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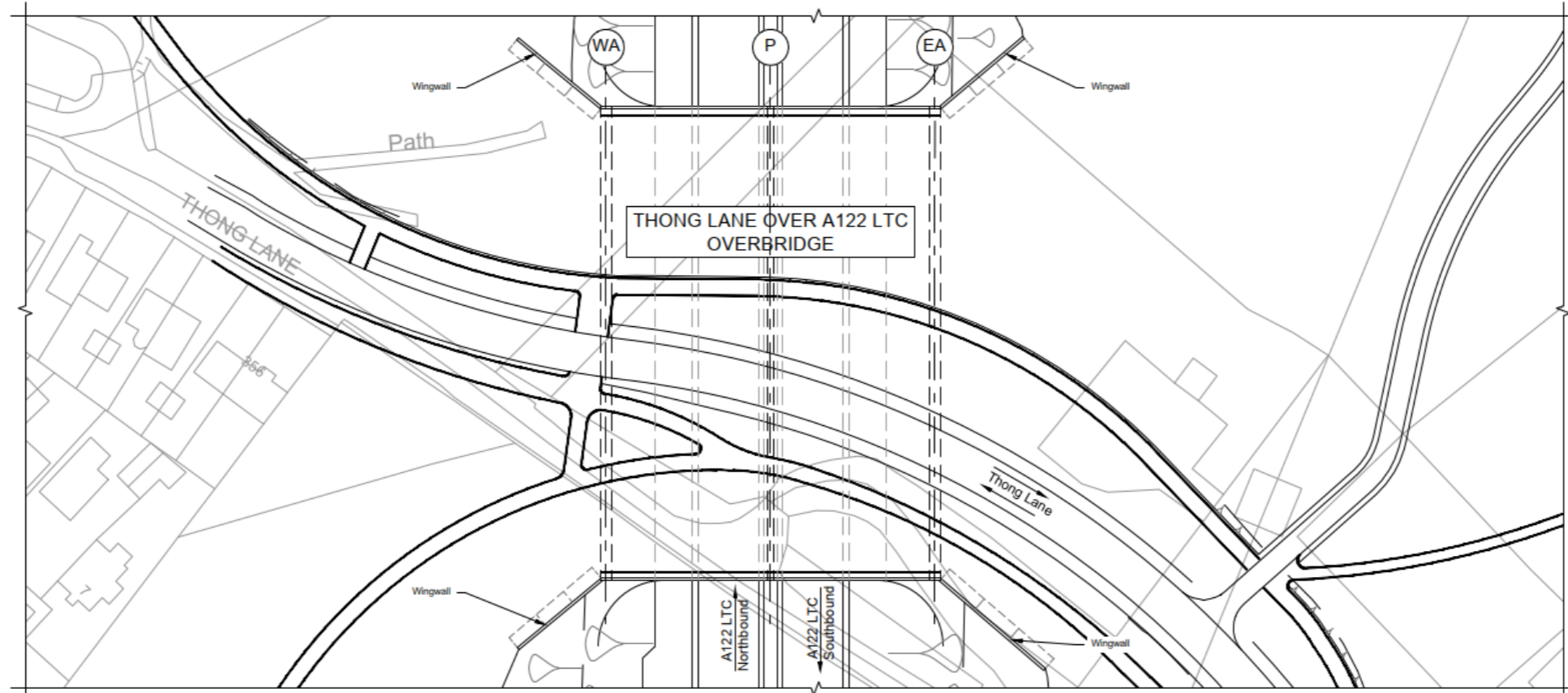


Client: national highways

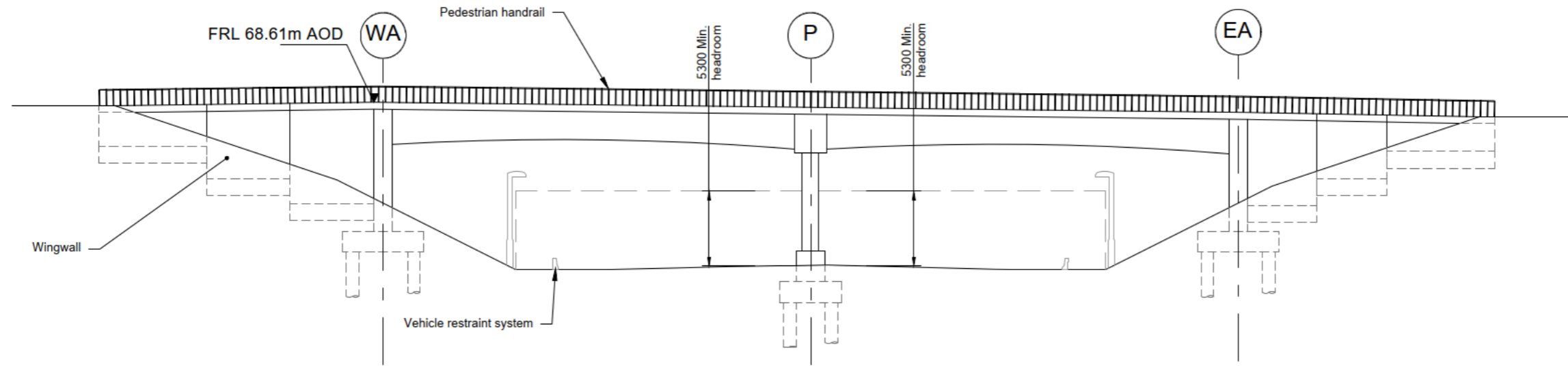
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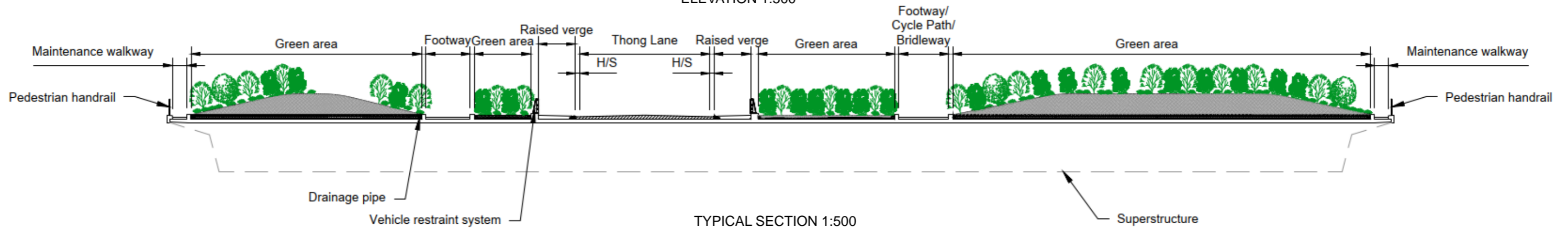




PLAN 1:1000



ELEVATION 1:500



TYPICAL SECTION 1:500

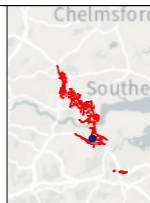
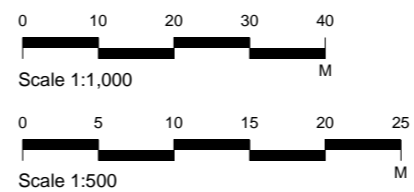
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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chkd	Appr'd
P01	S8	18/11/2022	DCO Application	LK	SM	BF

LEGEND

	EMBANKMENT/CUTTING
	WEST ABUTMENT
	EAST ABUTMENT
	PIER
	HANDSTRIP
	FINISHED ROAD LEVEL

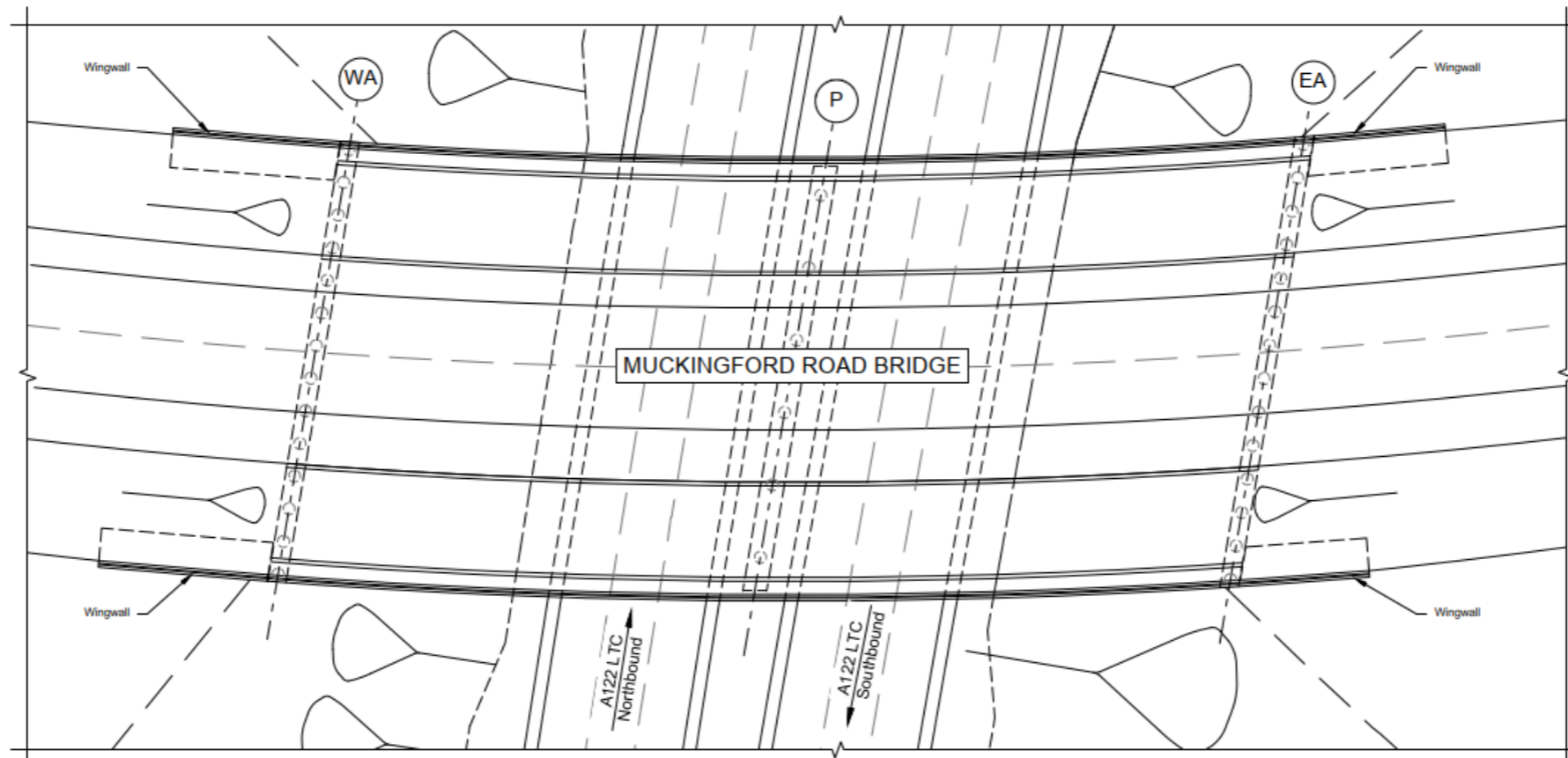
- Notes:
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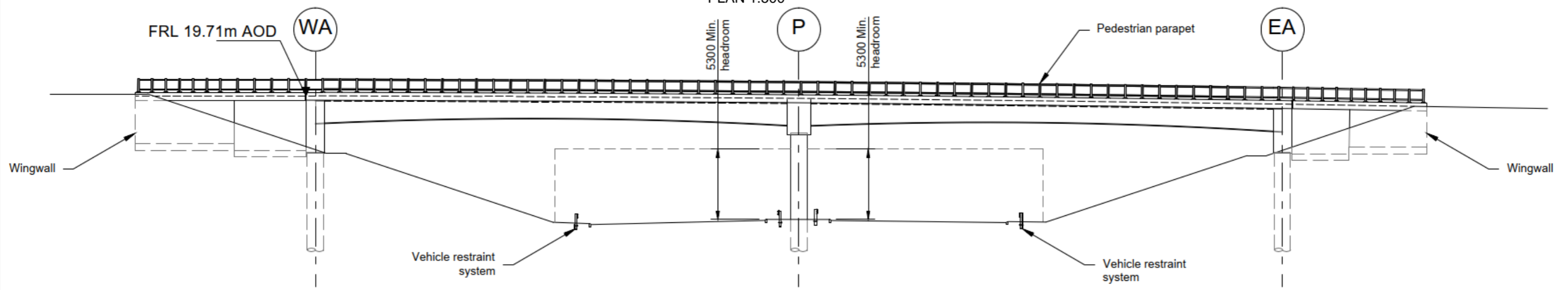
Client: national highways

Project: LOWER THAMES CROSSING

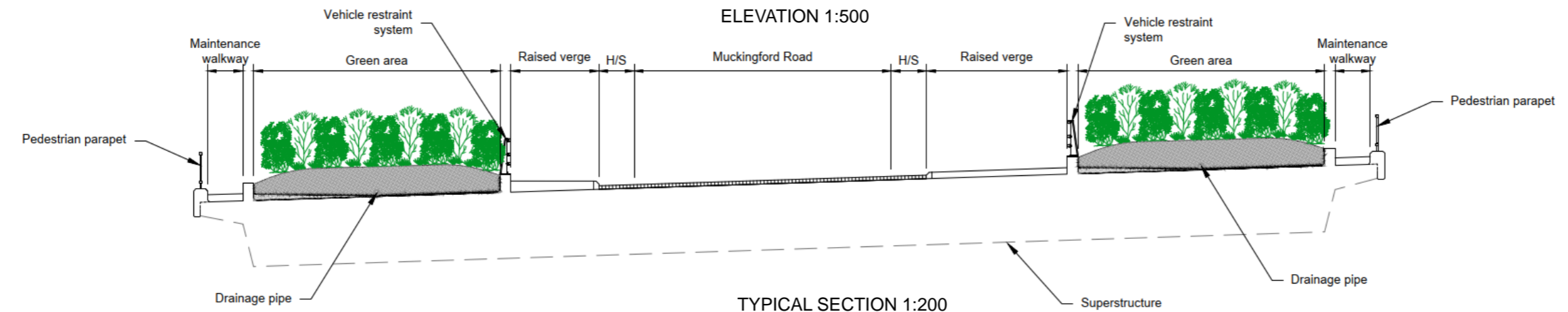
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Drawing Title	Figure E3b - Specifications for Green Bridge Design - Thong Lane North Page 3 of 7				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60114				



PLAN 1:500



ELEVATION 1:500

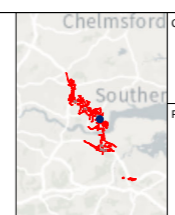
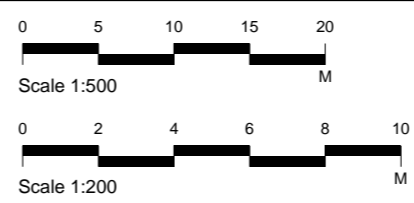


TYPICAL SECTION 1:200

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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chkd/ Apprv'd
P01	S8	18/11/2022	DCO Application	LK	SM BF

LEGEND	
	EMBANKMENT CUTTING
	WEST ABUTMENT
	PIERS
	EAST ABUTMENT
	HANDSTRIP
	FINISHED ROAD LEVEL

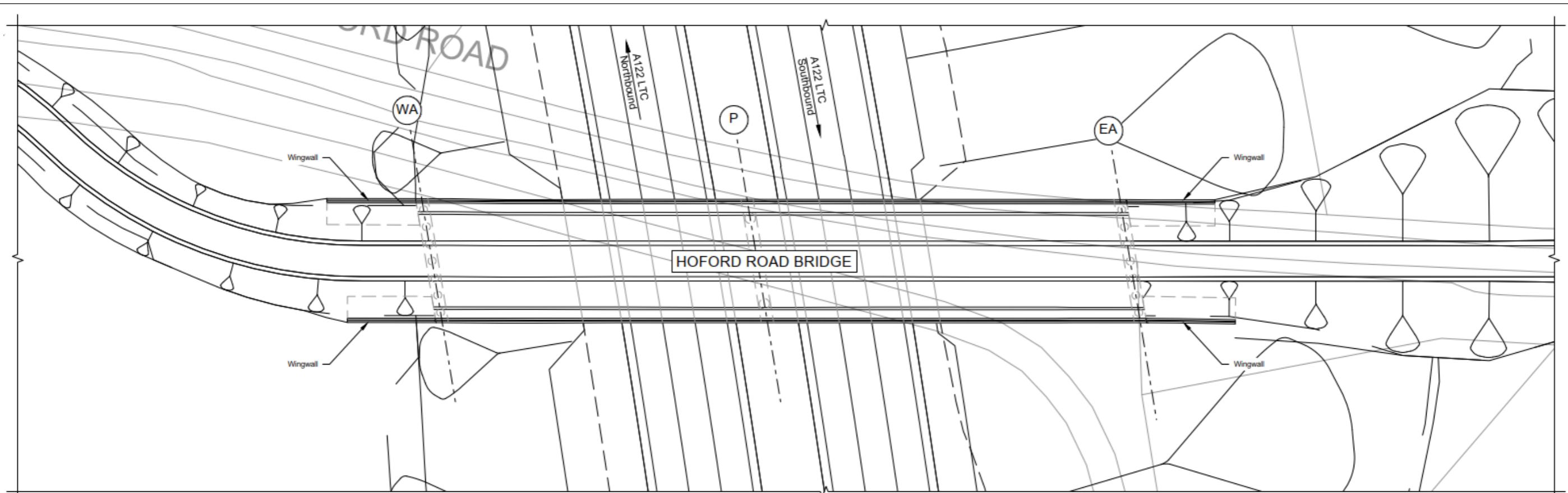
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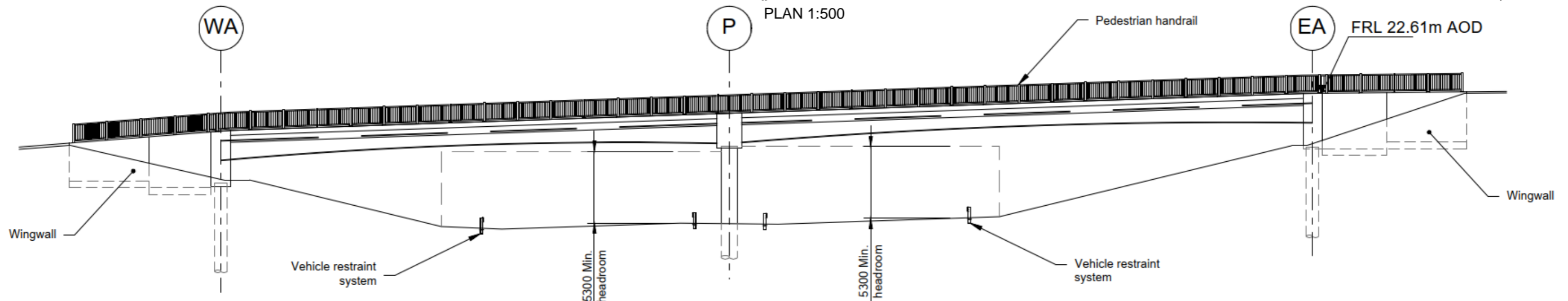
Client: national highways

Project: LOWER THAMES CROSSING

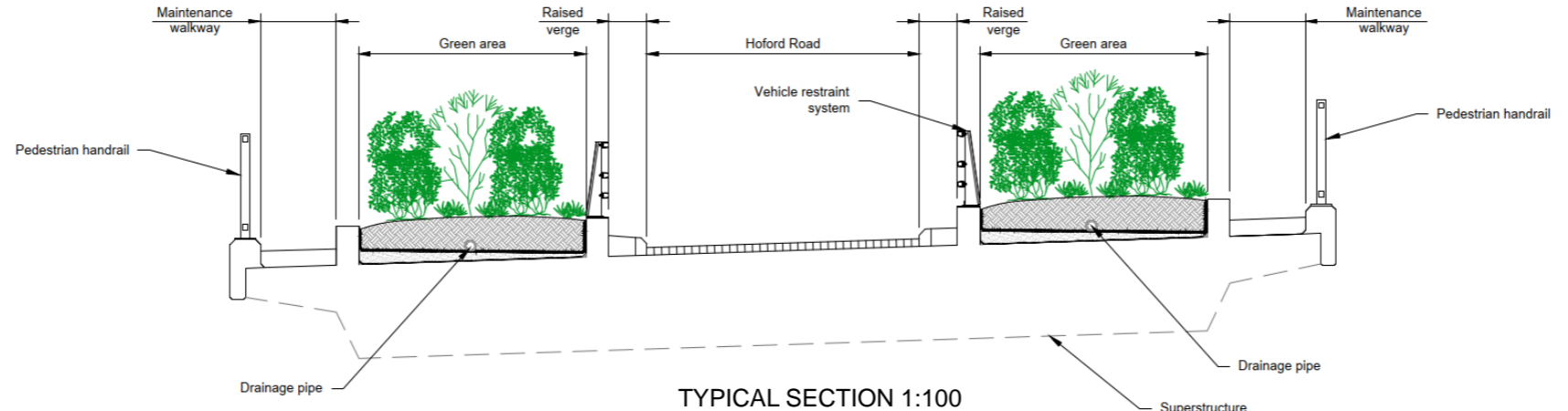
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Page 4 of 7					
Drawing Number					
HE540039-CJV-EBD-SZP_EGNE0000000-DR-LE-60114					



PLAN 1:500

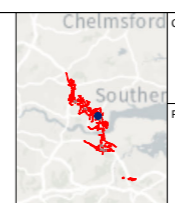
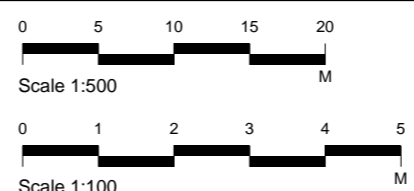


ELEVATION 1:500



TYPICAL SECTION 1:100

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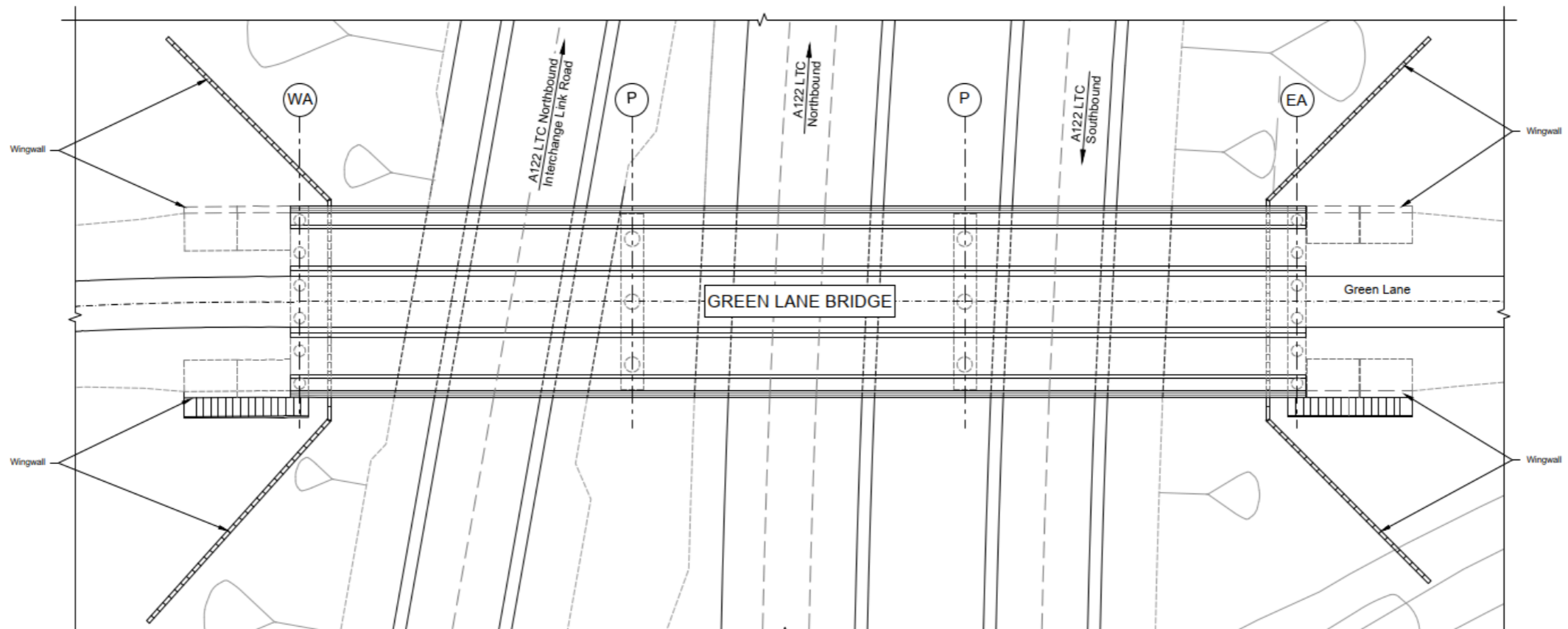
Client: national highways  
 Project: LOWER THAMES CROSSING

Status	DCO APPLICATION	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.2	Scale	AS SHOWN		
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Drawing Number	HE540039-CJV-EBD-SZP_EGNE0000000-DR-LE-60114				

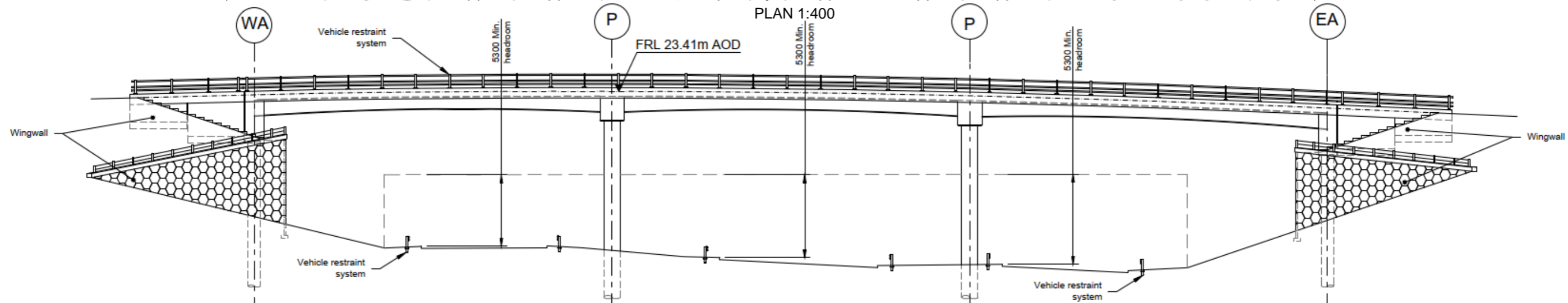
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chkd	Appr'd
P01	S8	18/11/2022	DCO Application	LK	SM	BF

**LEGEND**

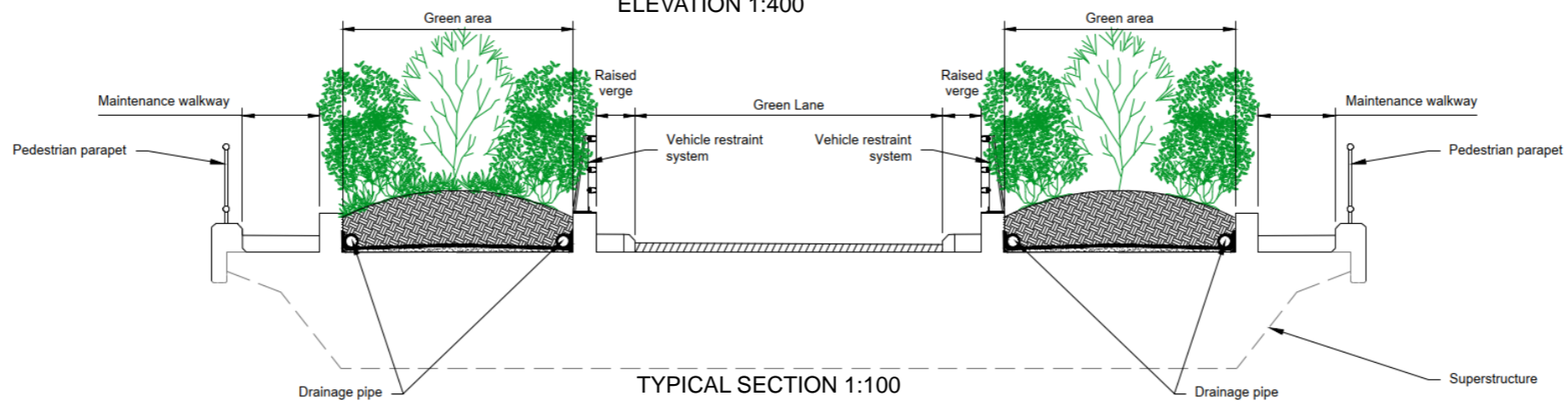
EM	EMBANKMENT/CUTTING
WA	WEST ABUTMENT
P	PERS
EA	EAST ABUTMENT
HS	HARDSTRIP
FR	FINISHED ROAD LEVEL



PLAN 1:400



ELEVATION 1:400

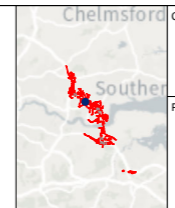
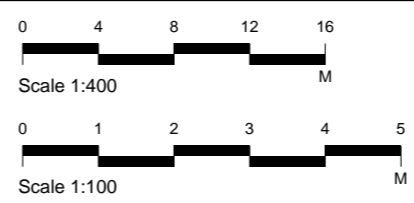


TYPICAL SECTION 1:100

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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chkd/ Appr'd
P01	S8	18/11/2022	DCO Application	LK	SM BF

LEGEND	
	EMBANKMENT/CUTTING
	WEST ABUTMENT
	PIER
	EAST ABUTMENT
	FRL FINISHED ROAD LEVEL

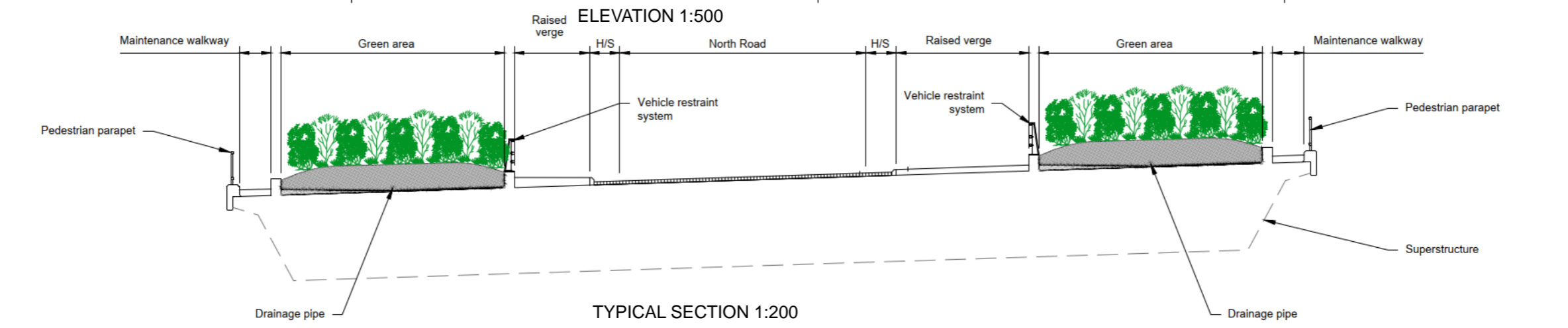
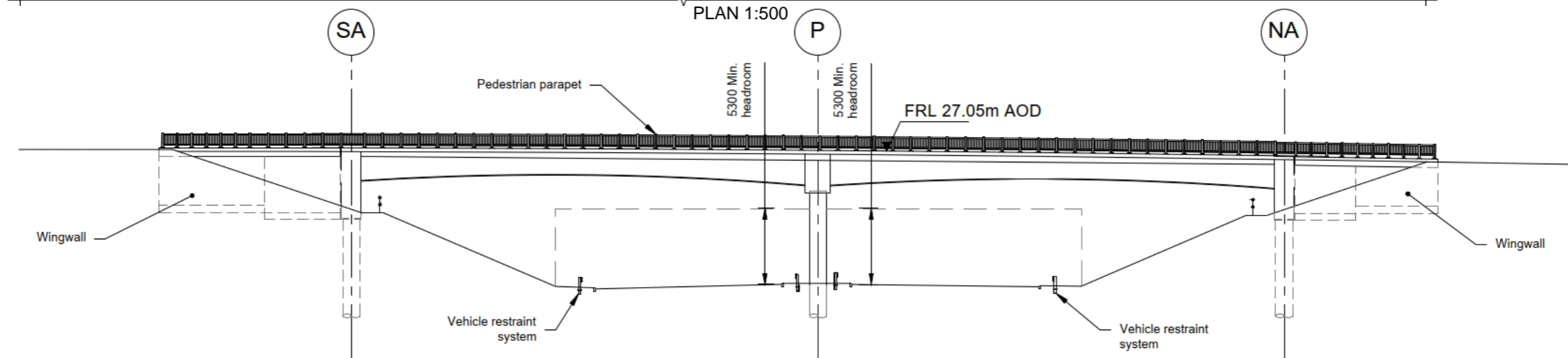
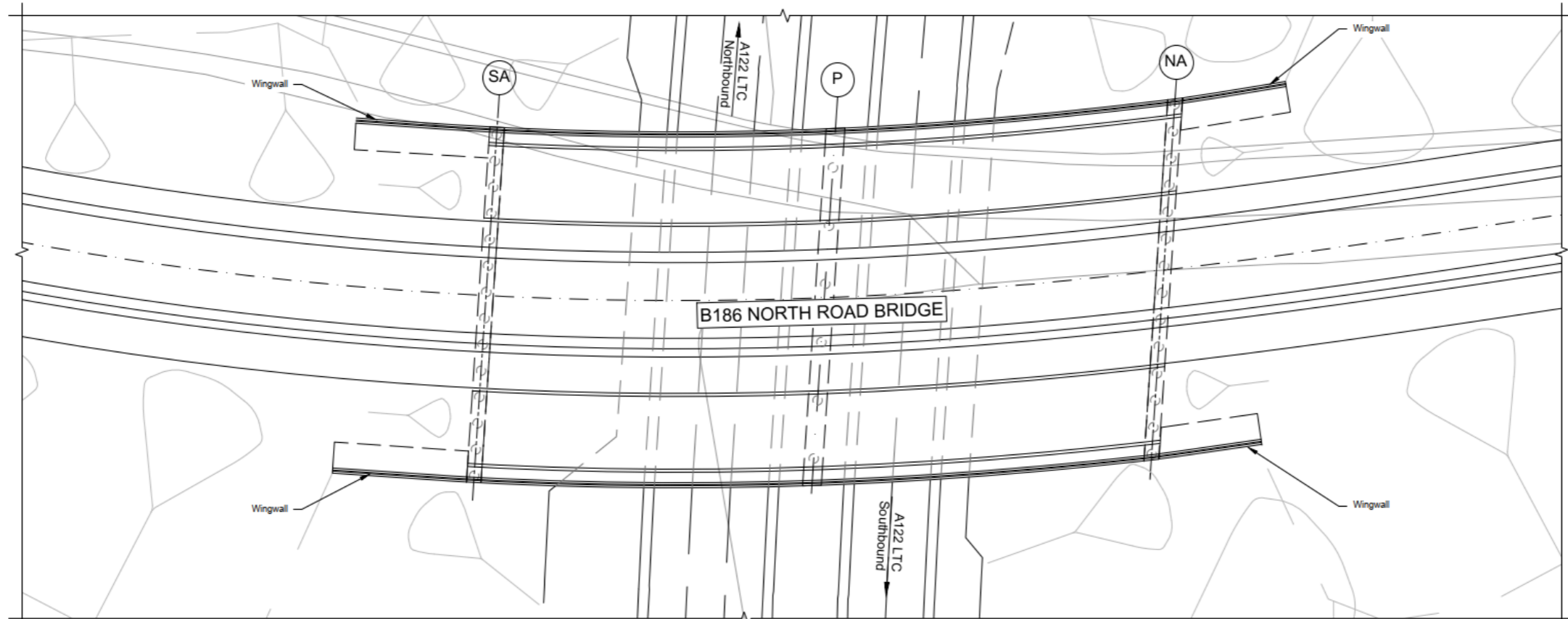
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Client: national highways

Project: LOWER THAMES CROSSING

Status	DCO APPLICATION	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.2	Scale	AS SHOWN		
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Figure E3b - Specifications for Green Bridge Design - Green Lane Page 6 of 7					
Drawing Number					
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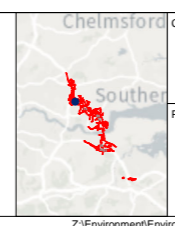
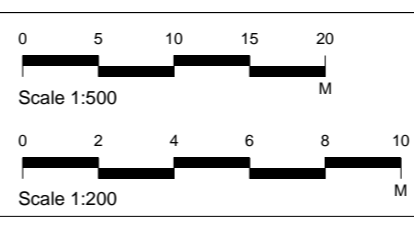


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P01	S8	18/11/2022	DCO Application	LK	SM BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chkd/ Apprv'd

LEGEND	
	EMBANKMENT/CUTTING
	SOUTH ABUTMENT
	PIER
	NORTH ABUTMENT
	HARDSTRIP

**Notes:**

- The design and location of the structure is shown here for illustrative purposes only and will be subject to detailed design development in accordance with the provisions of the Development Consent Order (TR010032/APP/3.1).
- For Environmental details refer to the Environmental Masterplan (TR010032/APP/6.2 Fig. 2.4) and Environmental Constraints Plan (TR010032/APP/6.2 Fig. 2.3) and associated drawings and documents.
- Drawings show engineering earthworks only. Landscaping earthworks are shown in General Arrangements Plans (TR010032/APP/2.5).
- Works numbers are described in Schedule 1 (Authorised Development) of the Development Consent Order (TR010032/APP/3.1).
- The Highways design is shown in the Engineering Section and Drawings (TR010032/APP/2.9).

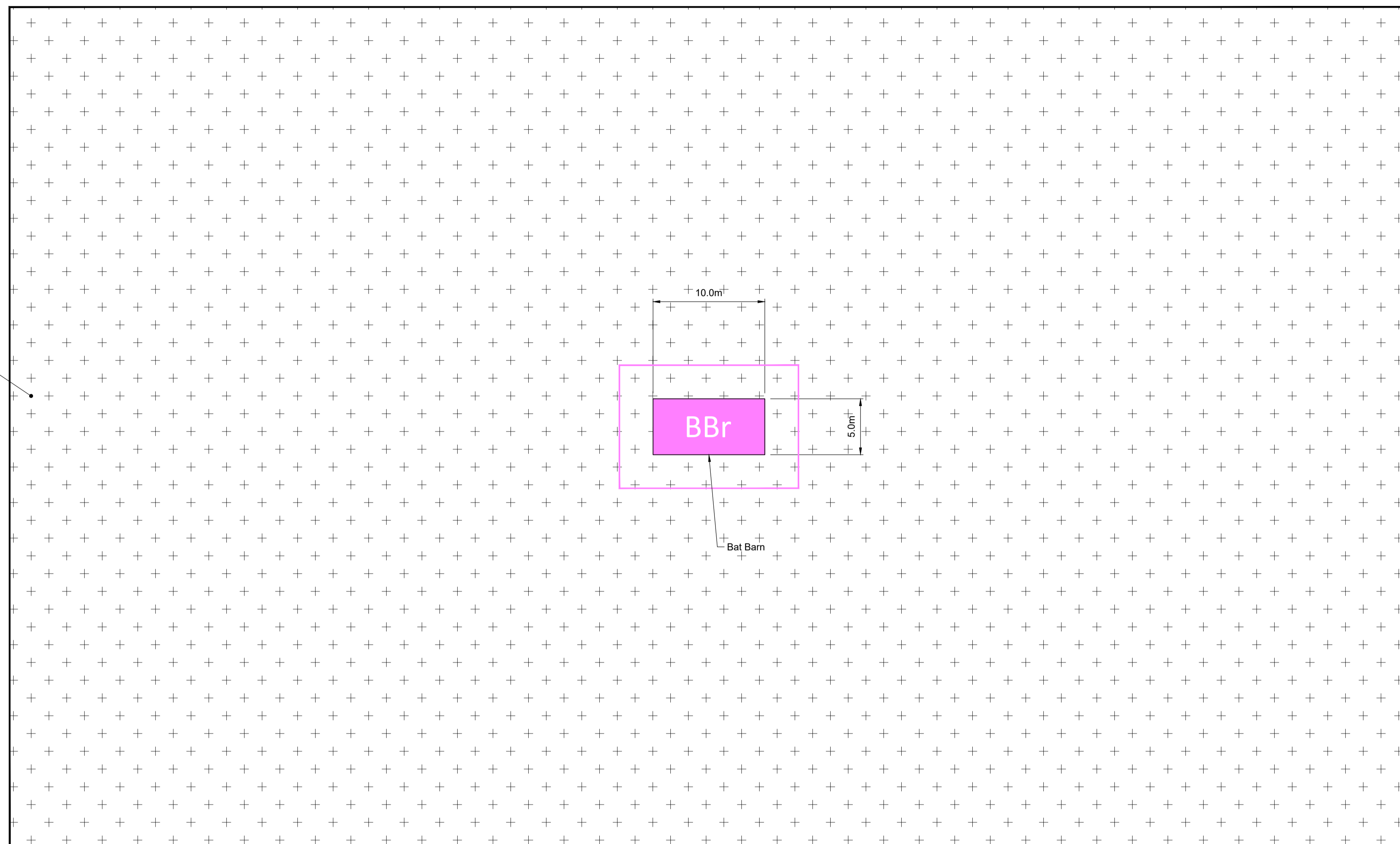


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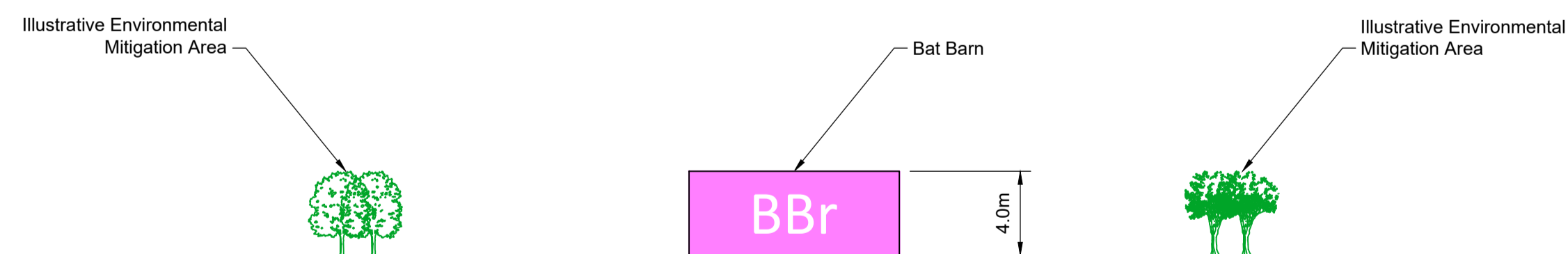
Project: **LOWER THAMES CROSSING**

Status	DCO APPLICATION	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.2	Scale	AS SHOWN		
Drawing Title	Figure E3b - Specifications for Green Bridge Design - North Road Page 7 of 7				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE0000000-DR-LE-60114				

Illustrative Environmental Mitigation Area



TYPICAL PLAN



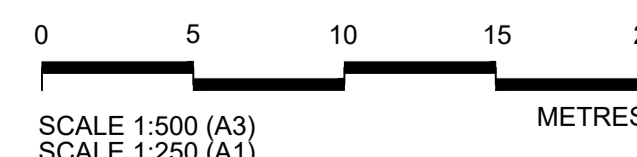
TYPICAL ELEVATION

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NOTES:

1. The design of the structure is shown here for illustrative purposes only and will be subject to detailed design in accordance with the provisions of the Development Consent Order (application document reference TR010032/APP/3.1).
2. Works numbers and location of bat barns are shown in the Works Plans (application document reference TR0110032/APP/2.6) and described in Schedule 1 of the Development Consent Order (application document reference TR010032/APP/3.1).
3. All levels are in metres and relate to Ordnance datum unless stated otherwise.

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P01	S8	19/10/2022	DCO Application	GH1	BB	ASB



PLAN & CROSS SECTION SCALE

Client



Project LOWER THAMES CROSSING

Status

DCO Application

Original Size A1  
Revision P01

Application Document Number TR010032/APP/2.13

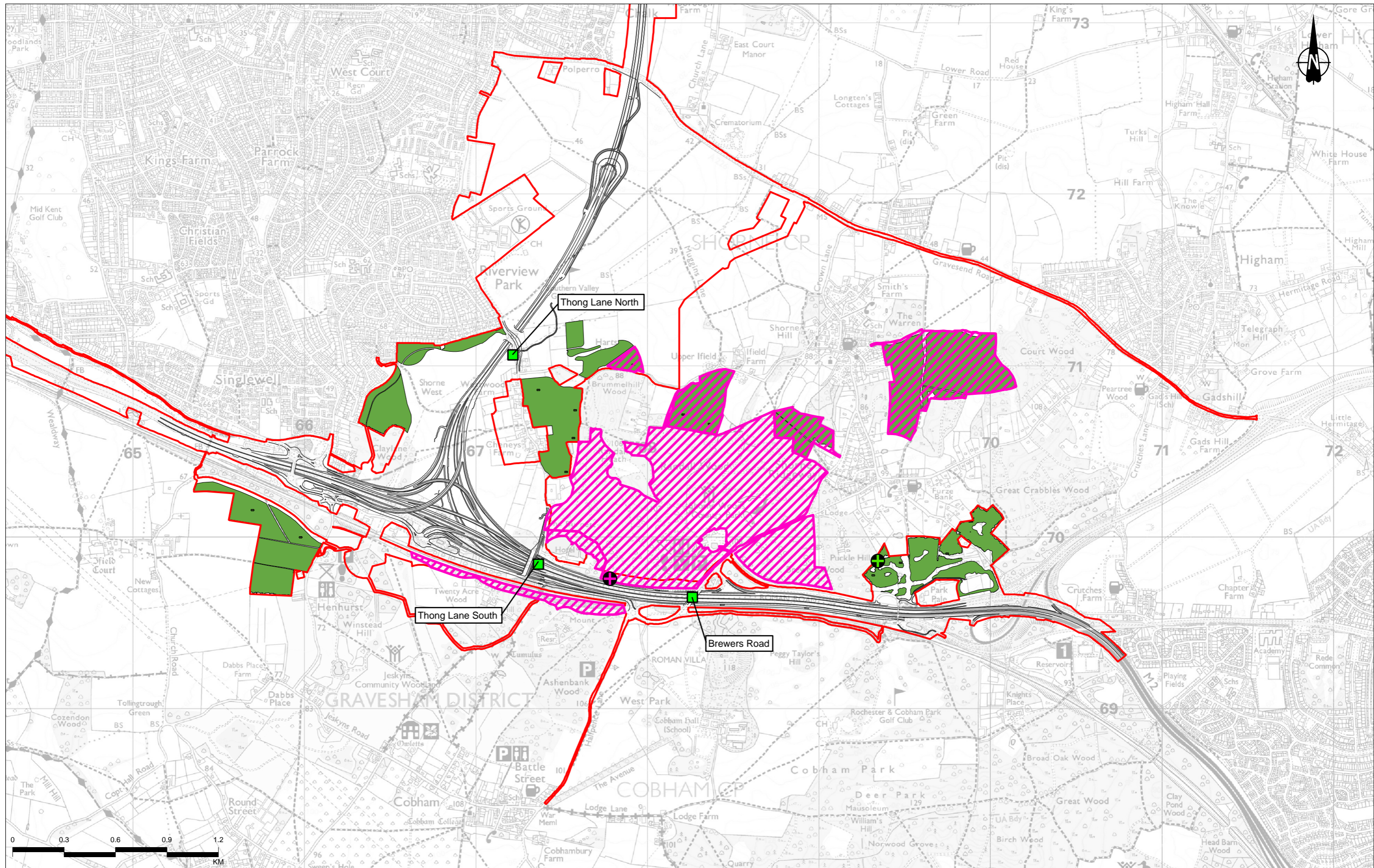
Scale AS SHOWN

Drawing title

STRUCTURES PLANS 5(2)(o)  
TYPICAL BAT BARN

Drawing Number

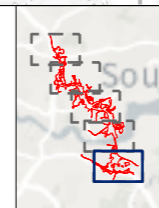
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P03	S9	13/07/2023	Natural England comments	CD	SM	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chkd	Apprvd

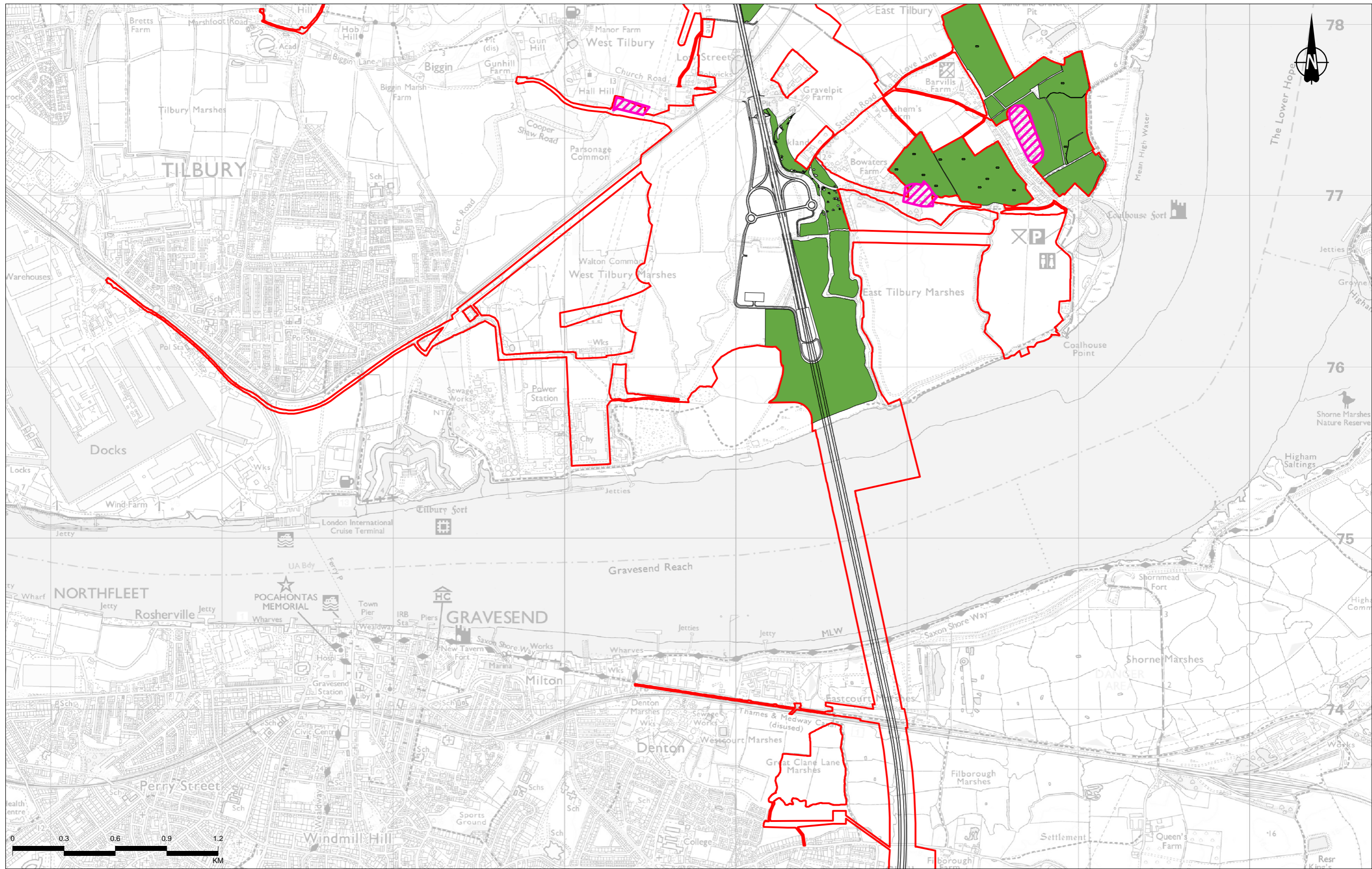
- Legend**
- Order Limits
  - Route alignment
  - Ecological habitats
  - Bat Box location
  - Green bridge location
  - Compensation Bat Bunker
  - Retained Bat Bunker to be Monitored



Client  
**national highways**

Project  
**LOWER THAMES CROSSING**

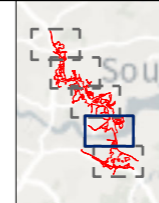
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Drawing Title	Figure E4 - Monitoring, Management and Maintenance				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE0000000-DR-LE-60015				
Page 1 of 5					



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P02	S8	20/10/2022	DCO Application	CD	SM	BF
P03	S9	13/07/2023	Natural England comments	CD	SM	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chkd	Apprvd

- Legend**
- Order Limits
  - Green bridge location
  - Route alignment
  - Compensation Bat Bunker
  - Ecological habitats
  - Retained Bat Bunker to be Monitored
  - Bat Box location

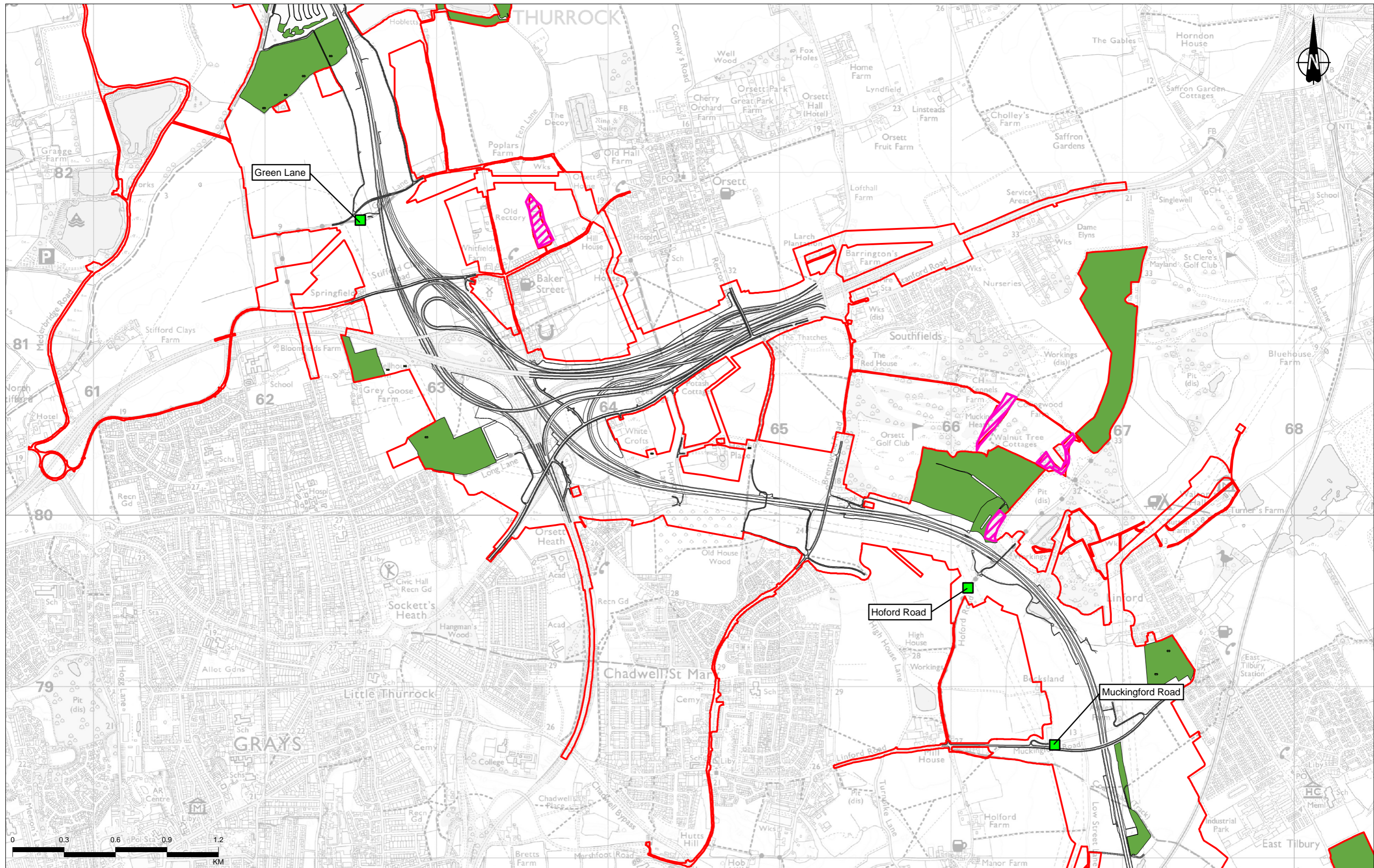


Client  
**national highways**

Project  
**LOWER THAMES CROSSING**

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	Page 2 of 5				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE0000000-DR-LE-60015				

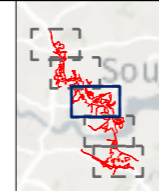




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P02	S8	20/10/2022	DCO Application	CD	SM	BF
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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chkd	Apprvd

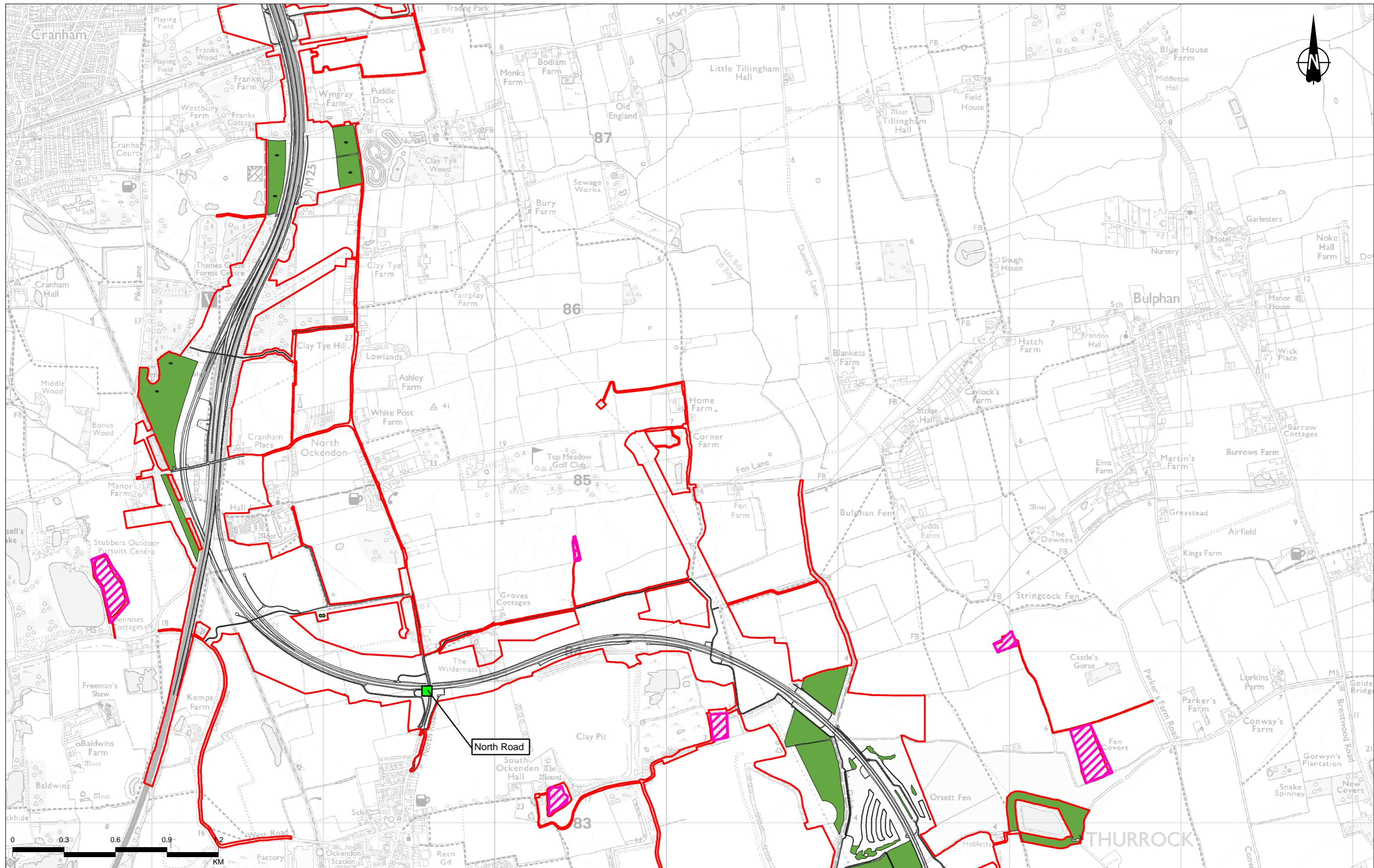
- Legend**
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Client  
  
 Project  
**LOWER THAMES CROSSING**

Status	DCO APPLICATION	Original Size	A3	Revision	P03
Application Document Number	TR010032/APP/6.2	Scale	1:20,000		
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Drawing Number	HE540039-CJV-EBD-SZP_EGNE0000000-DR-LE-60015				

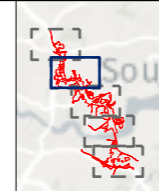
Page 3 of 5



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P02	S8	20/10/2022	DCO Application	CD	SM	BF
P03	S9	13/07/2023	Natural England comments	CD	SM	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chkd	Apprvd

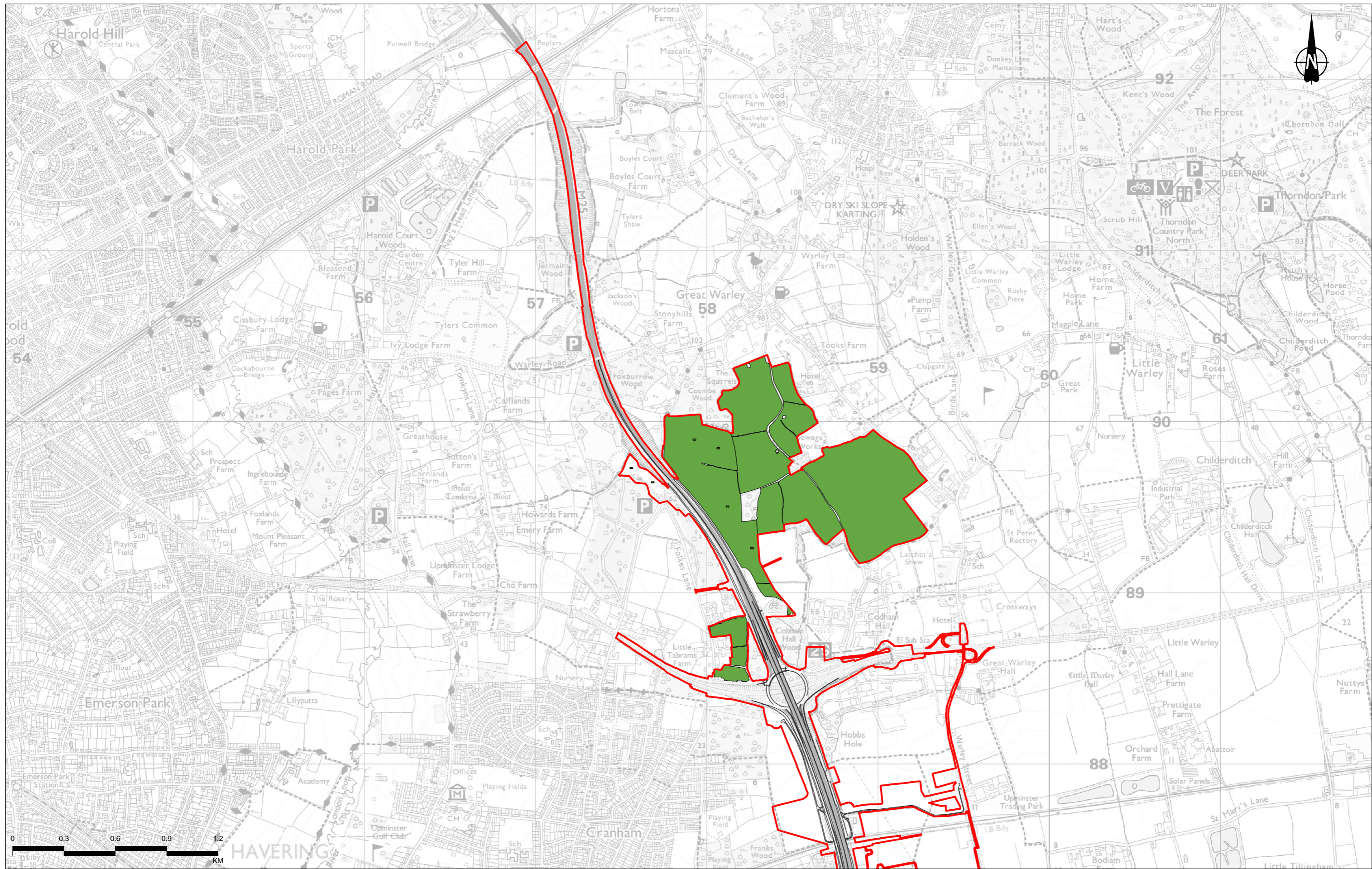
- Legend**
- Order Limits
  - Route alignment
  - Ecological habitats
  - Green bridge location
  - Bat Box location
  - Compensation Bat Bunker
  - Retained Bat Bunker to be Monitored



Client  
**national highways**

Project  
**LOWER THAMES CROSSING**

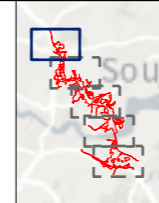
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Application Document Number	TR010032/APP/6.2	Scale	1:20,000		
Drawing Title	<b>Figure E4 - Monitoring, Management and Maintenance</b>				
Drawing Number	<b>Page 4 of 5</b>				
HE540039-CJV-EBD-SZP_EGNE0000000-DR-LE-60015					



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P02	S8	20/10/2022	DCO Application	CD	SM	BF
P03	S9	13/07/2023	Natural England comments	CD	SM	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Checked	Approved

- Legend**
- Order Limits
  - Route alignment
  - Ecological habitats
  - Green bridge location
  - Compensation Bat Bunker
  - Retained Bat Bunker to be Monitored
  - Bat Box location



Client  
  
 Project  
**LOWER THAMES CROSSING**

Status	DCO APPLICATION	Original Size	A3	Revision	P03
Application Document Number	TR010032/APP/6.2	Scale	1:20,000		
Drawing Title	Figure E4 - Monitoring, Management and Maintenance				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE0000000-DR-LE-60015				

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