

# Lower Thames Crossing

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

(4 of 4)

APFP Regulation 5(2)(a)

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

Volume 6

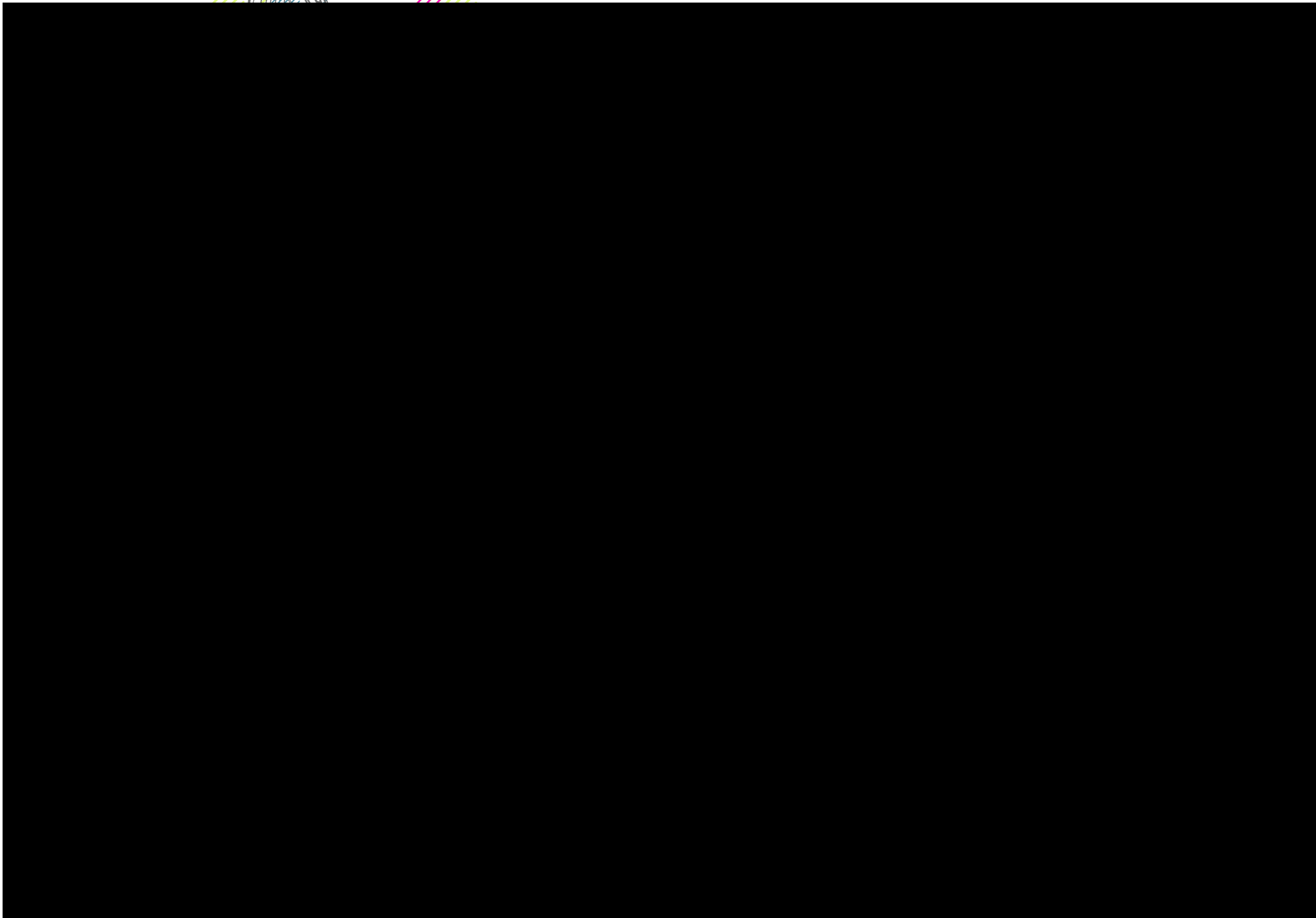
**DATE: December 2023**  
**DEADLINE: 8**

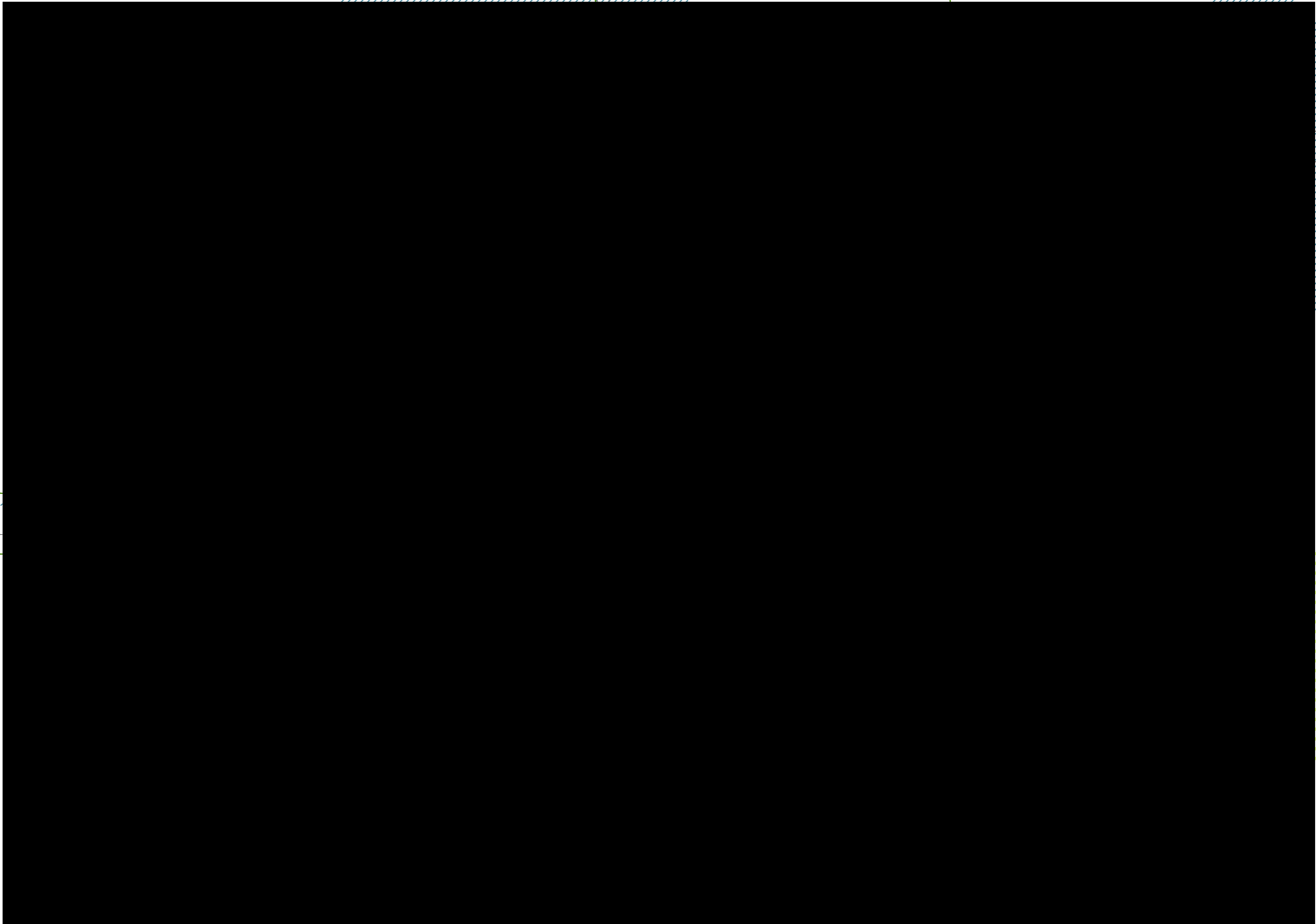
Planning Inspectorate Scheme Ref: TR010032  
Application Document Ref: TR010032/APP/6.3

**VERSION: 2.0**

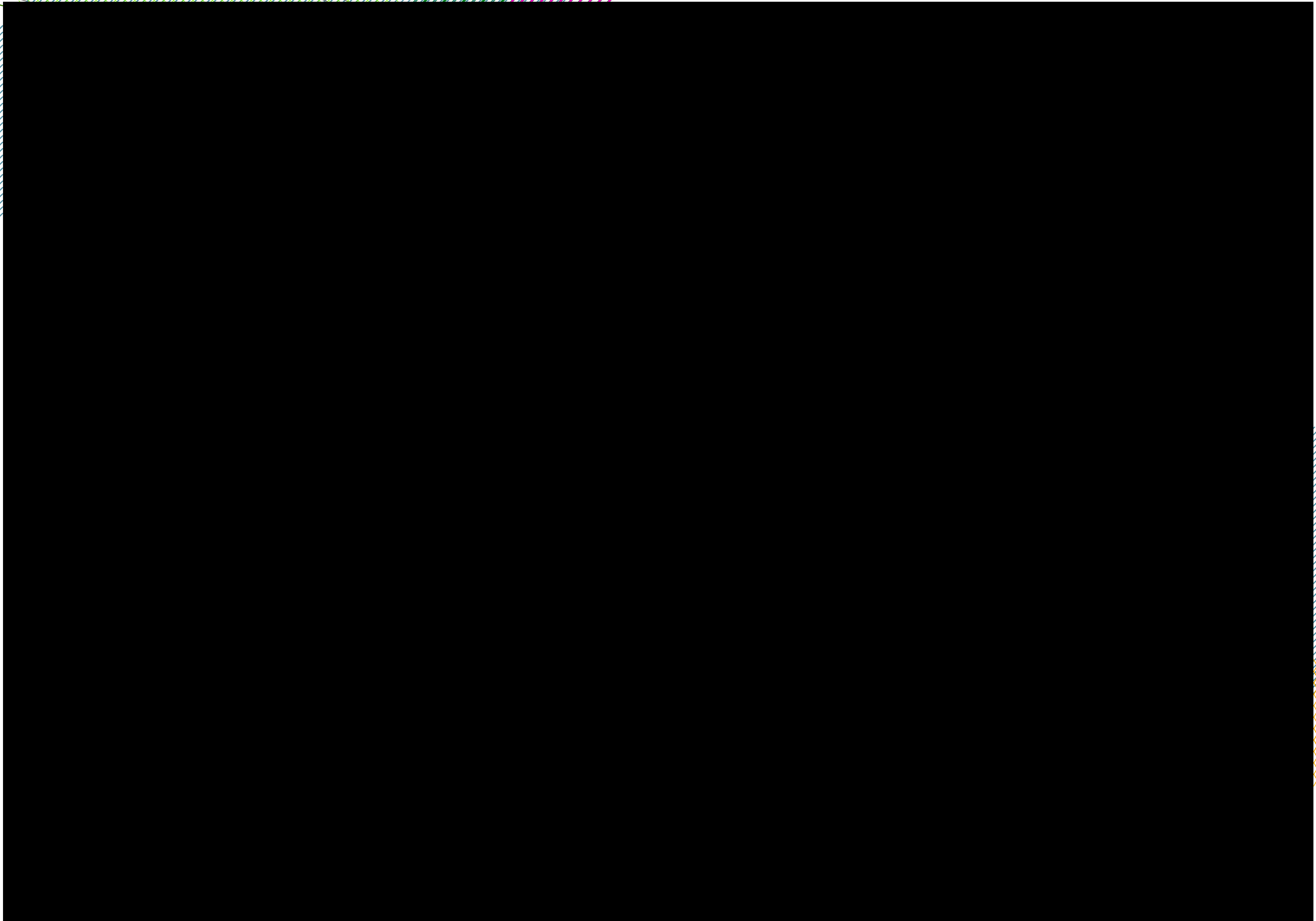
### Revision history

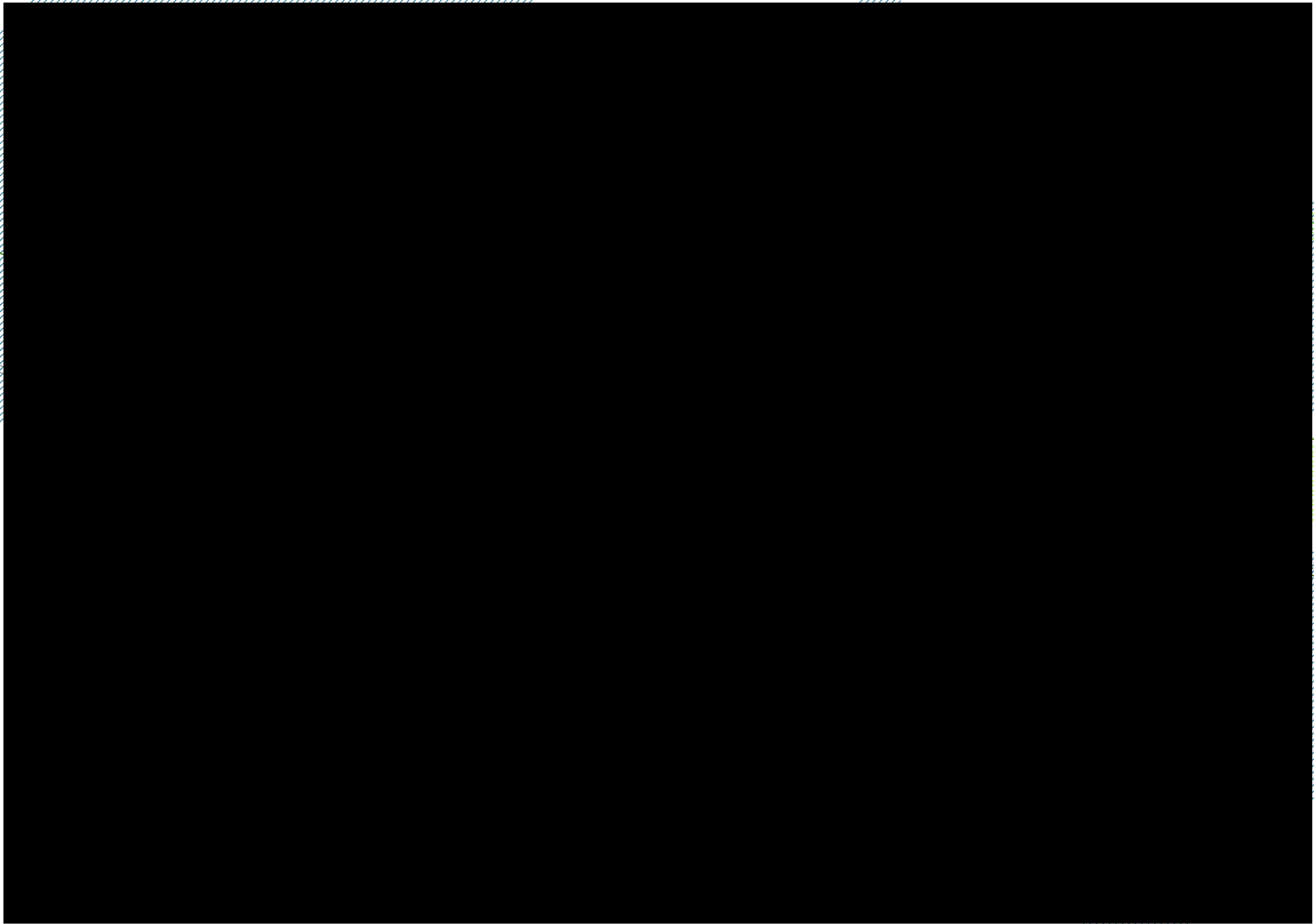
| Version | Date            | Submitted at    |
|---------|-----------------|-----------------|
| 1.0     | 31 October 2022 | DCO Application |
| 2.0     | 5 December 2023 | Deadline 8      |

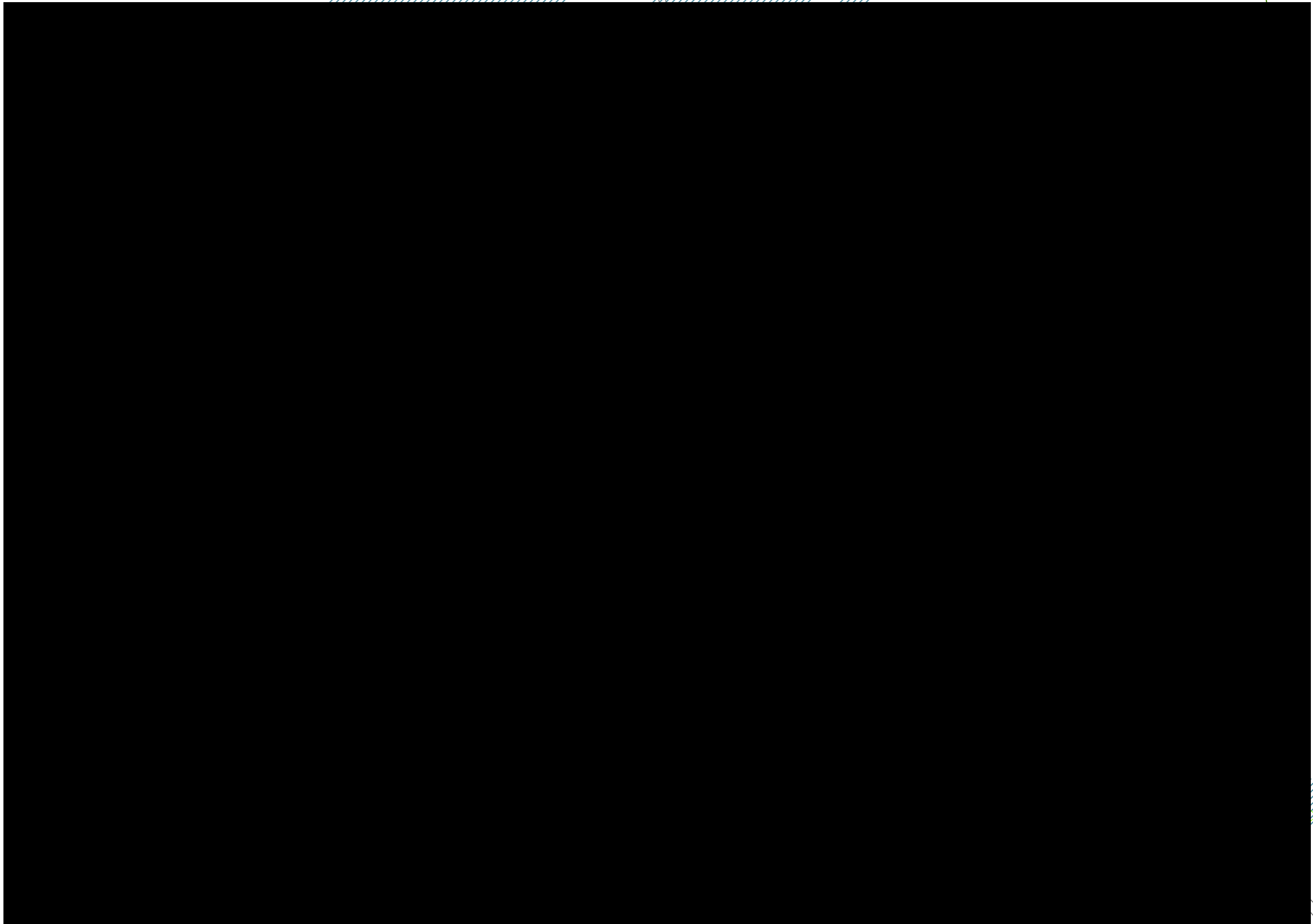


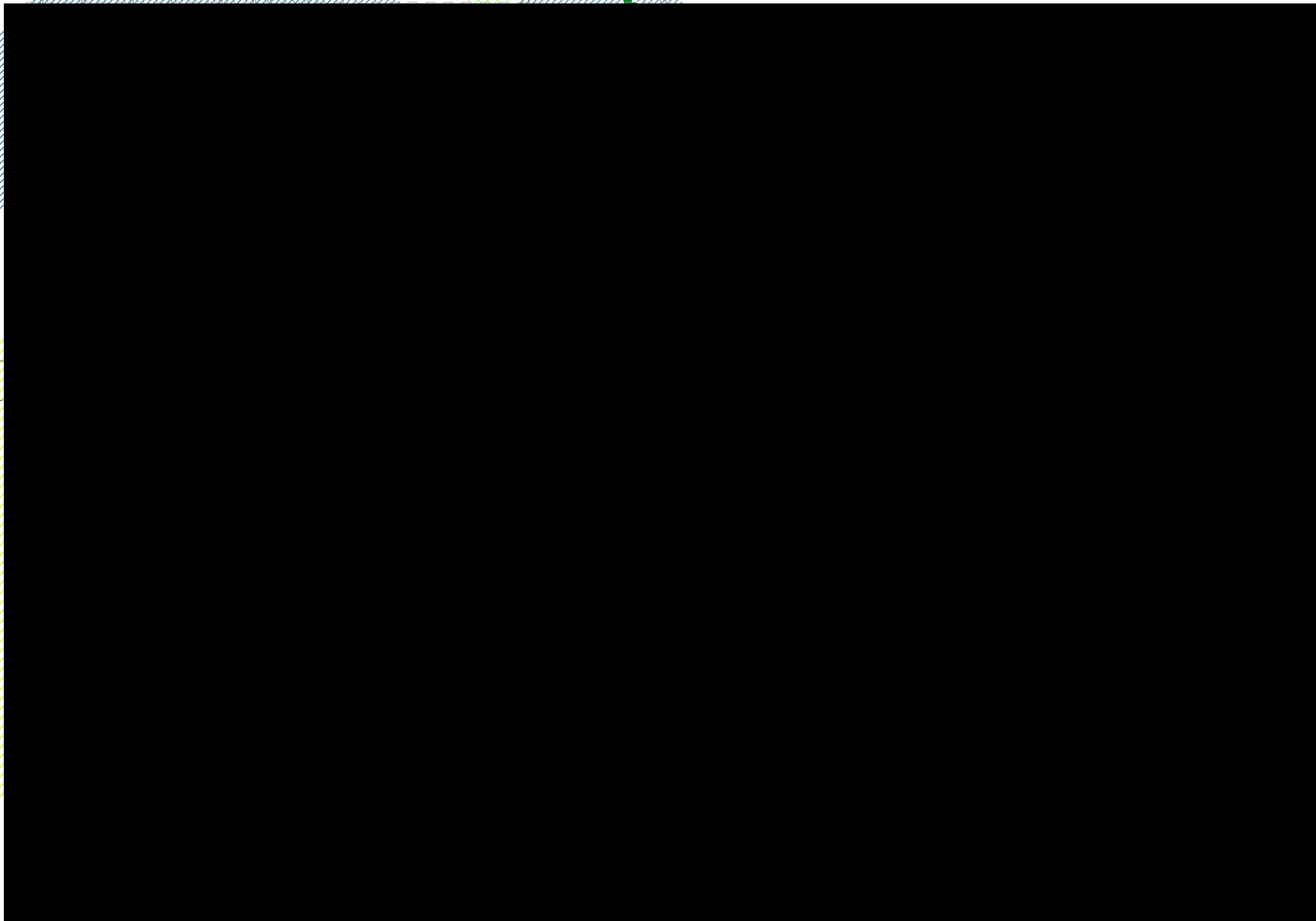


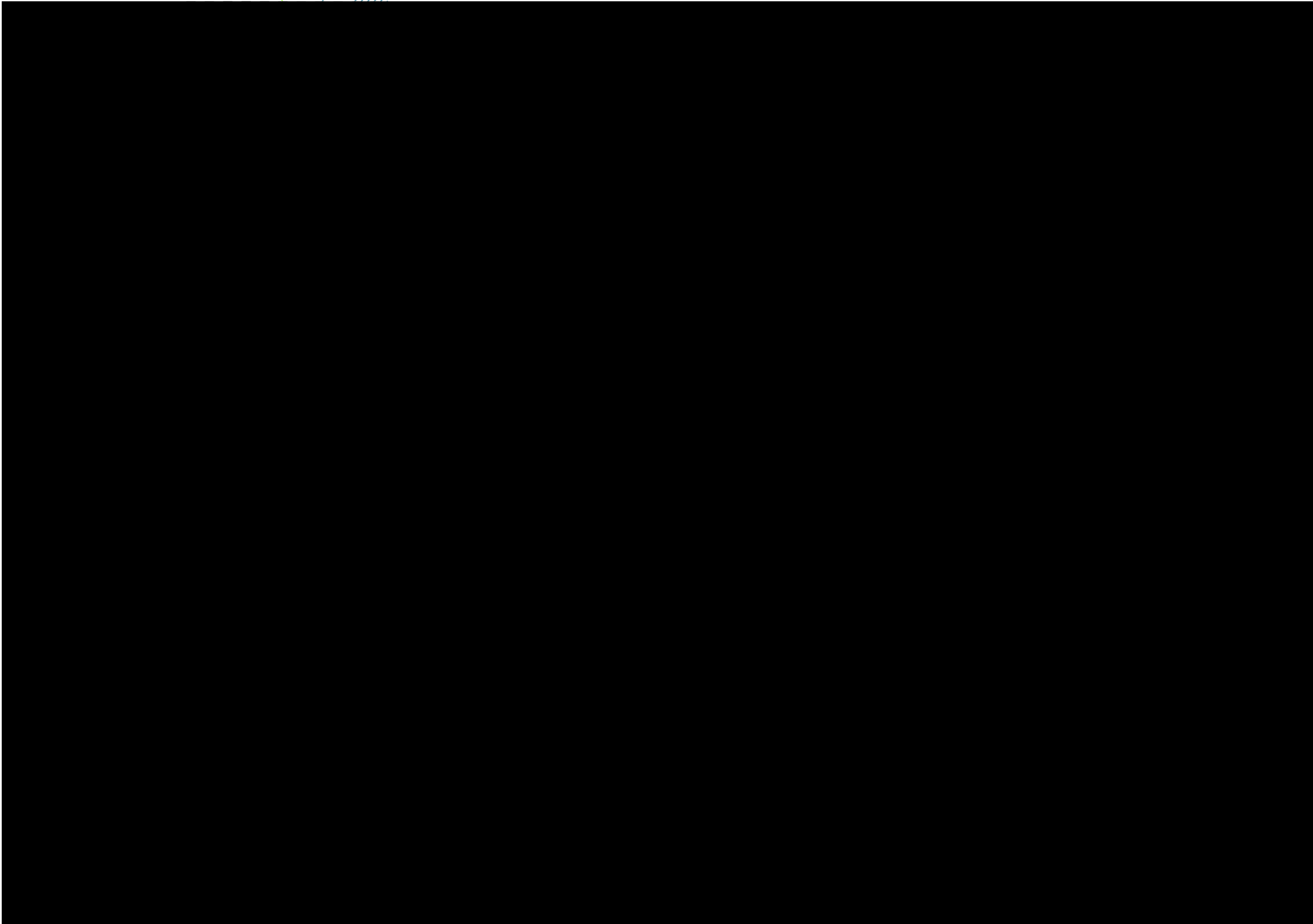


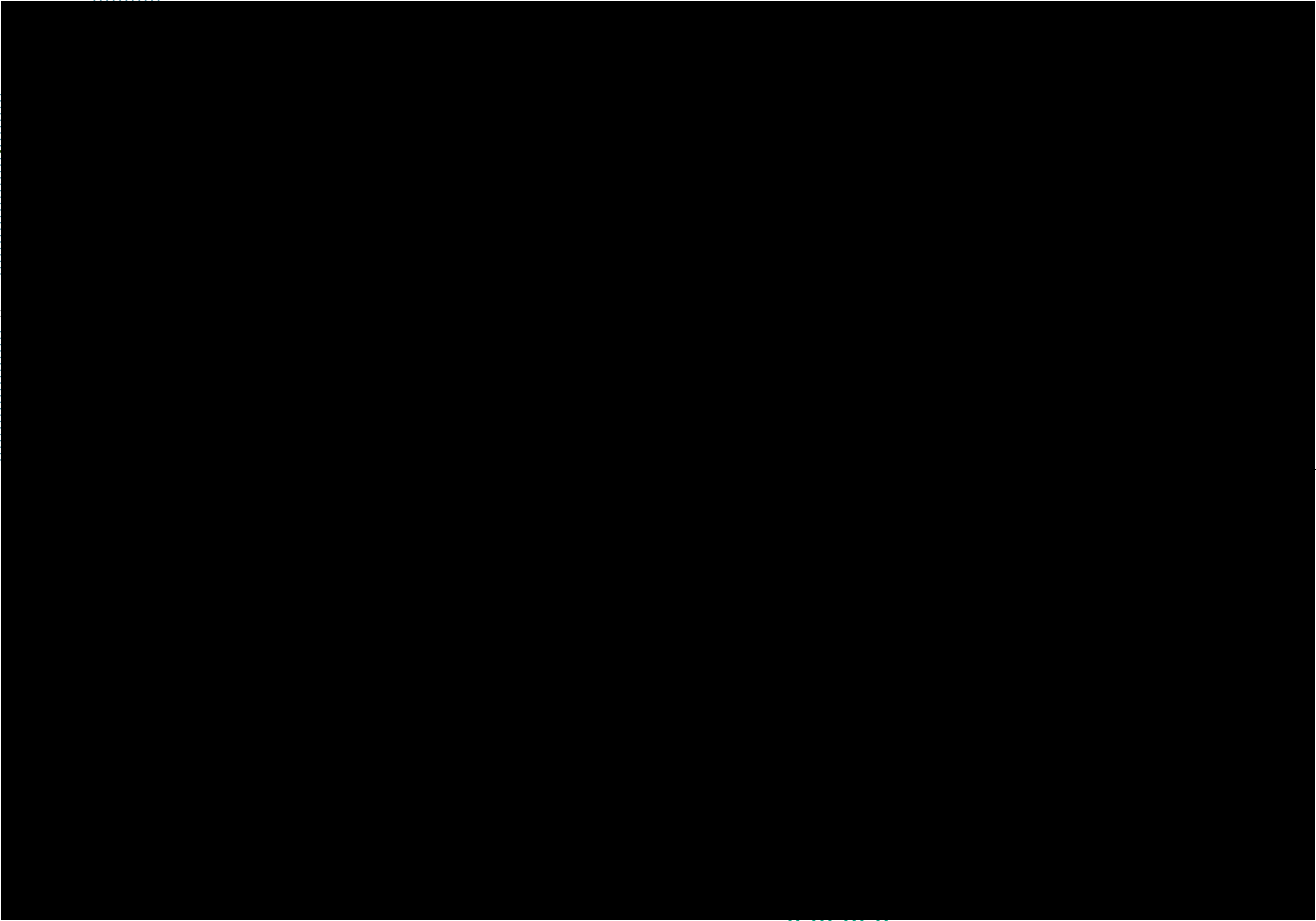




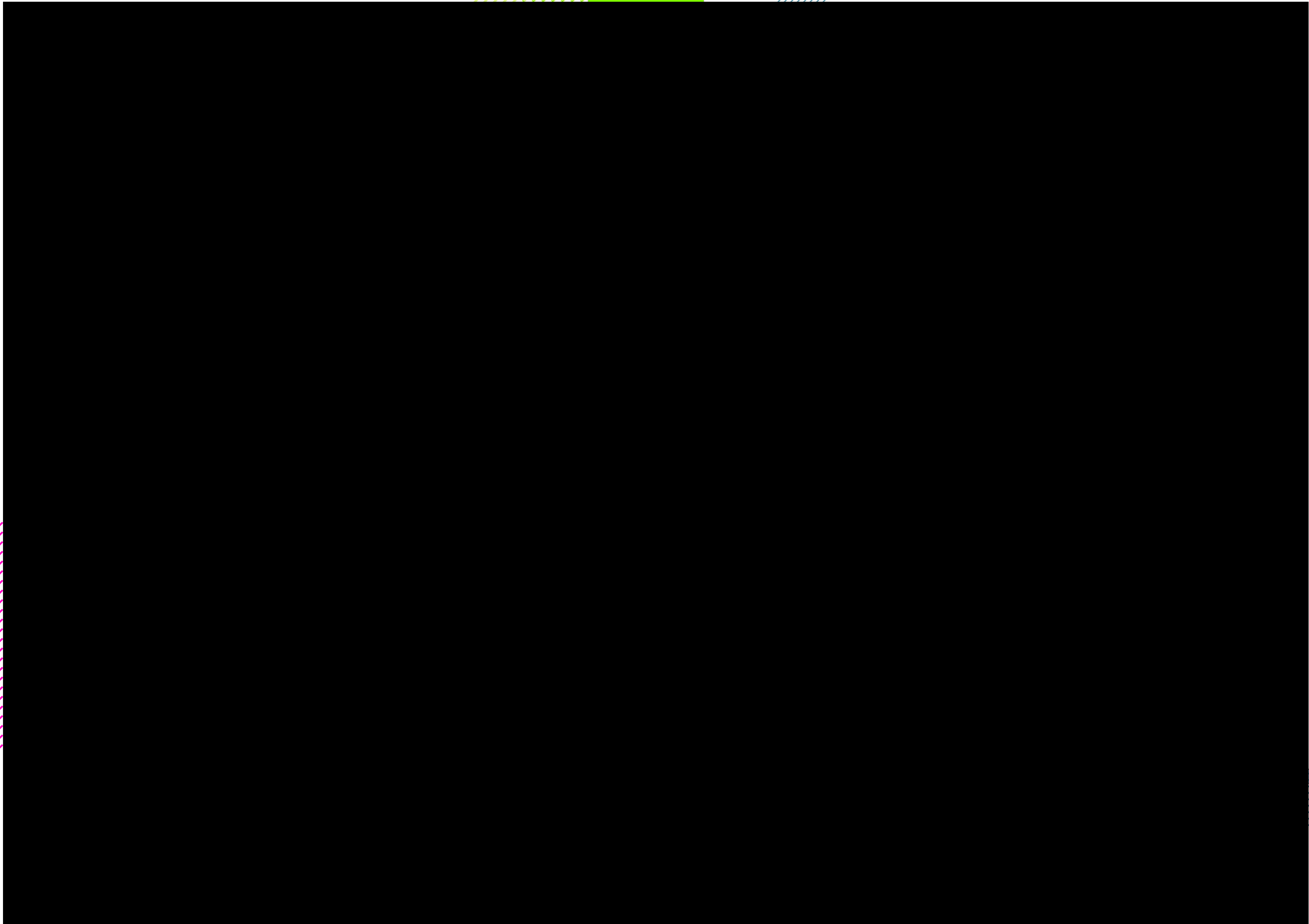




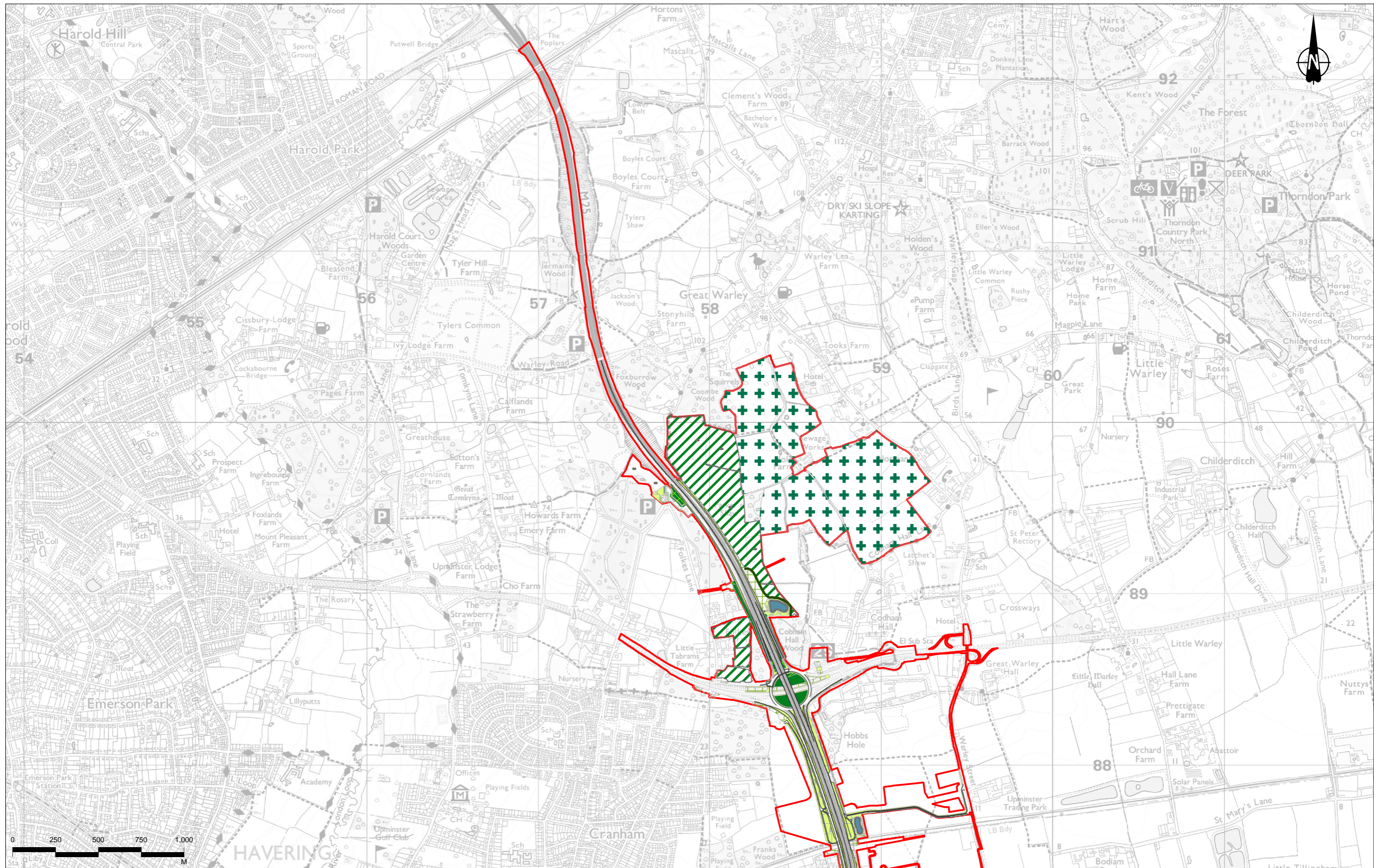












|     |        |            |                          |       |         |          |
|-----|--------|------------|--------------------------|-------|---------|----------|
| Rev | Status | Rev. Date  | Purpose of revision      | Drawn | Checked | Approved |
| P02 | S8     | 20/10/2022 | DCO Application          | 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       |

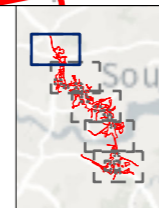
|                                      |                                     |  |
|--------------------------------------|-------------------------------------|--|
| Order Limits                         | Green bridge location               | Bat crossing point                       |
| Route alignment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

|                                       |                             |
|---------------------------------------|-----------------------------|
| Roost retained - desk study           | Noctule - hibernation roost |
| Leisler - maternity roost             | Assumed flightline          |
| Noctule - maternity roost             | Mitigated flightline        |
| Soprano pipistrelle - maternity roost | Retained flightline         |

|                             |                      |
|-----------------------------|----------------------|
| Noctule - hibernation roost | Assumed flightline   |
| Assumed flightline          | Mitigated flightline |
| Mitigated flightline        | Retained flightline  |

|                      |                      |
|----------------------|----------------------|
| Assumed flightline   | Mitigated flightline |
| Mitigated flightline | Retained flightline  |

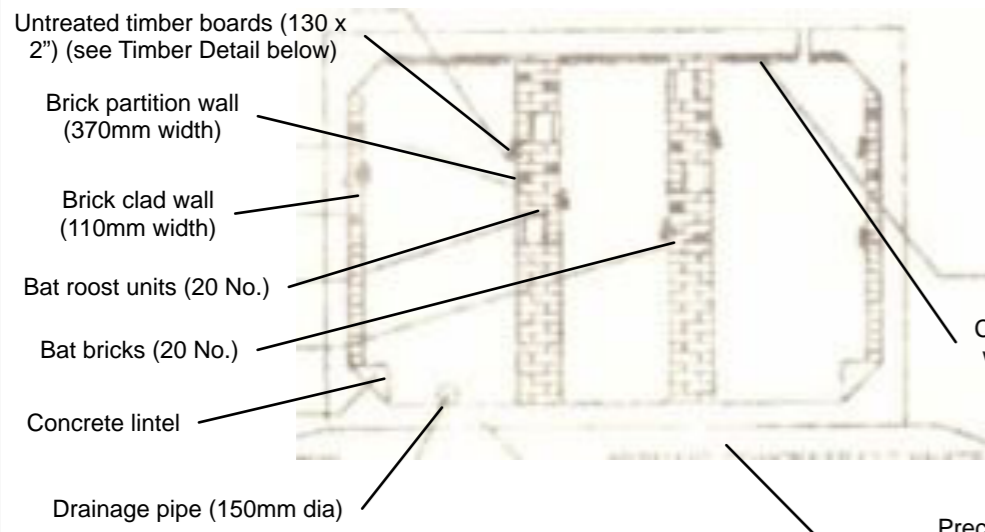
|                      |                      |
|----------------------|----------------------|
| Assumed flightline   | Mitigated flightline |
| Mitigated flightline | Retained flightline  |



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<br>Page 19 of 19 |               |          |          |     |
| Drawing Number              | HE540039-CJV-EBD-SZP_EGNE0000000-DR-LE-60015                            |               |          |          |     |



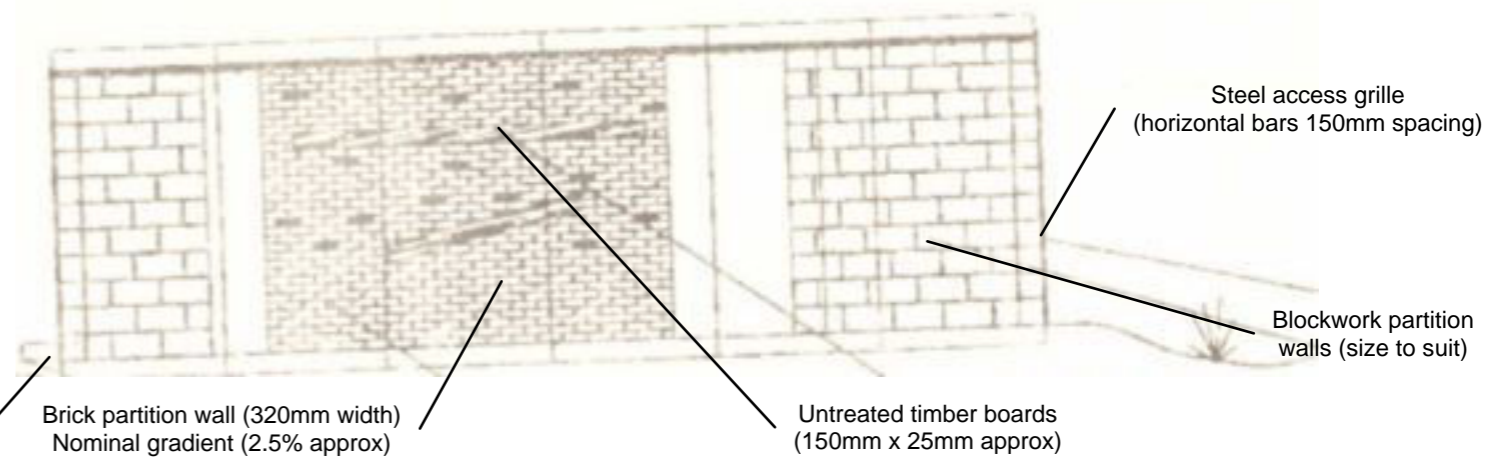


**Typical Cross Section**

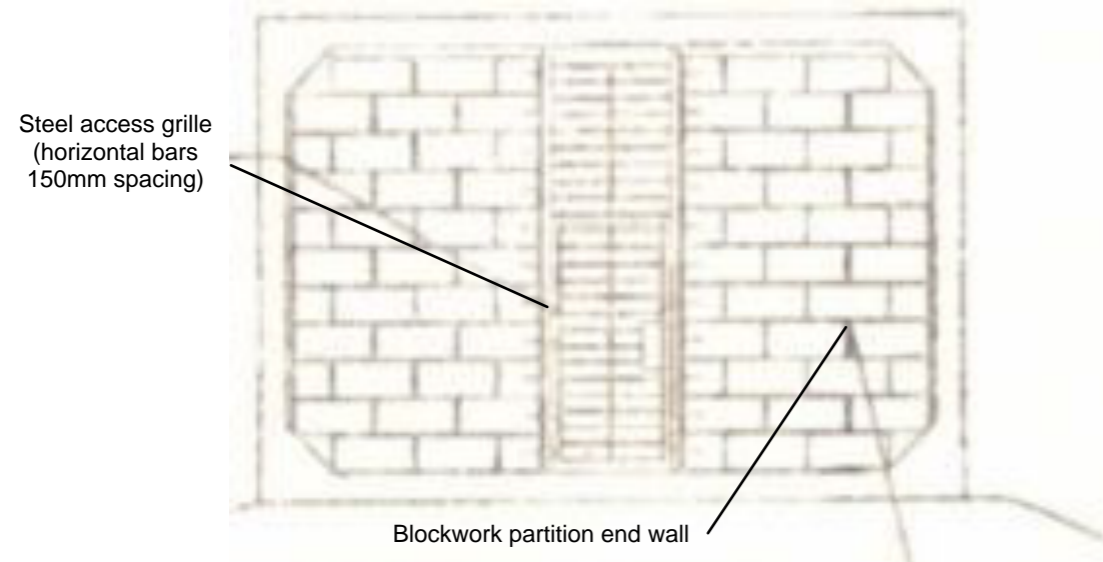
Concrete render to ceiling and unclad walls (fixing method to suit product).

Drainage pipe (250mm dia)

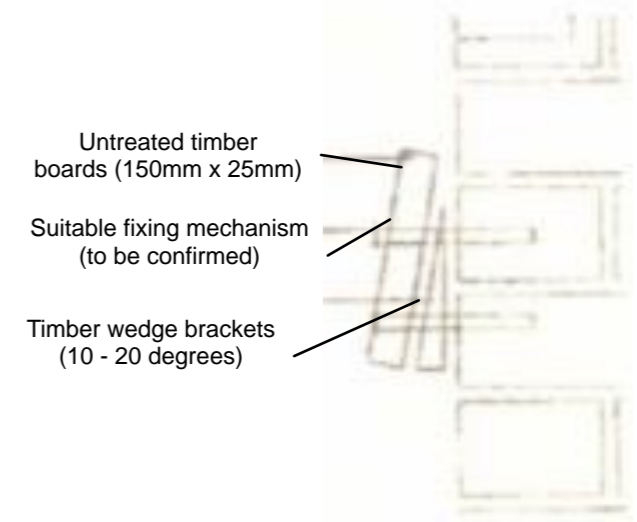
Precast concrete culverts (4000mm x 2500mm x 9000mm approx dia)



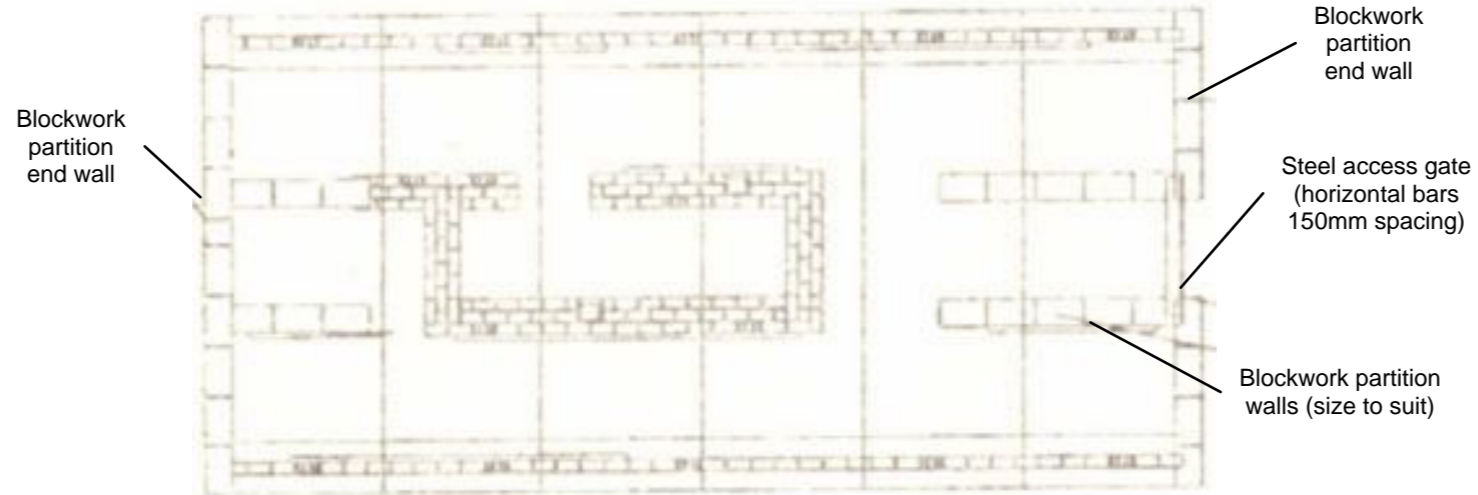
**Typical Long Section**



**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.

Client



Project

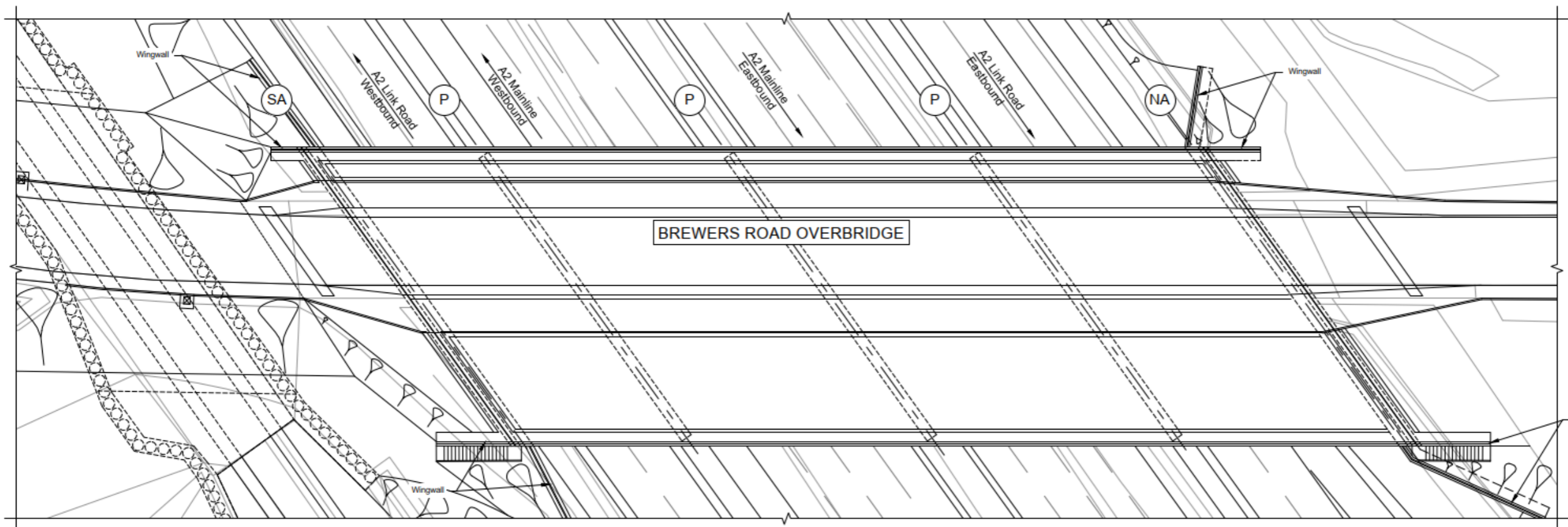
LOWER THAMES CROSSING

|                             |                  |               |          |          |     |
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| Application Document Number | TR010032/APP/6.2 | Scale         | 1:20,000 |          |     |

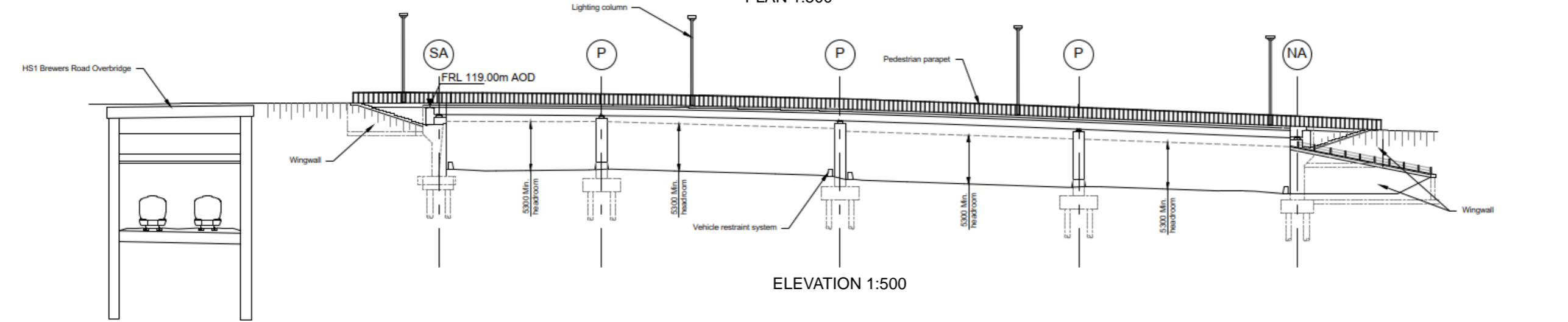
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**Figure E3a - Specifications for Mitigation/Compensation**

Drawing Number  
HE540039-CJV-EBD-SZP\_EGNE00000000-DR-LE-60015

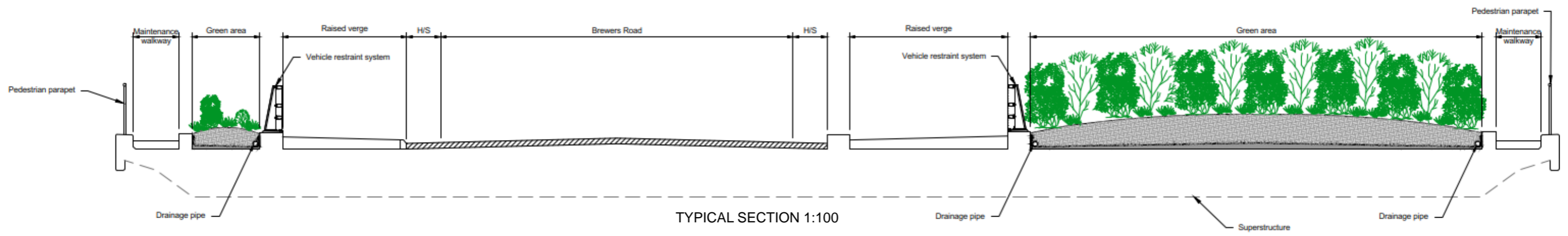
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| P02 | S8     | 18/10/2022 | DCO Application     | CD    | SM   | BF      |
| Rev | Status | Rev. Date  | Purpose of revision | Drawn | Chkd | Apprv'd |



PLAN 1:500



ELEVATION 1:500



TYPICAL SECTION 1:100

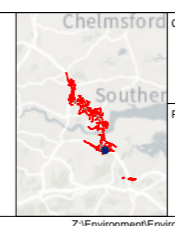
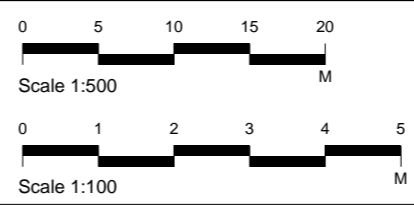
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|-----|--------|------------|---------------------|-------|------|--------|
| Rev | Status | Rev. Date  | Purpose of revision | Drawn | Chkd | Appr'd |
| P01 | S8     | 18/11/2022 | DCO Application     | LK    | SM   | BF     |

LEGEND

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

- Notes:
- 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).

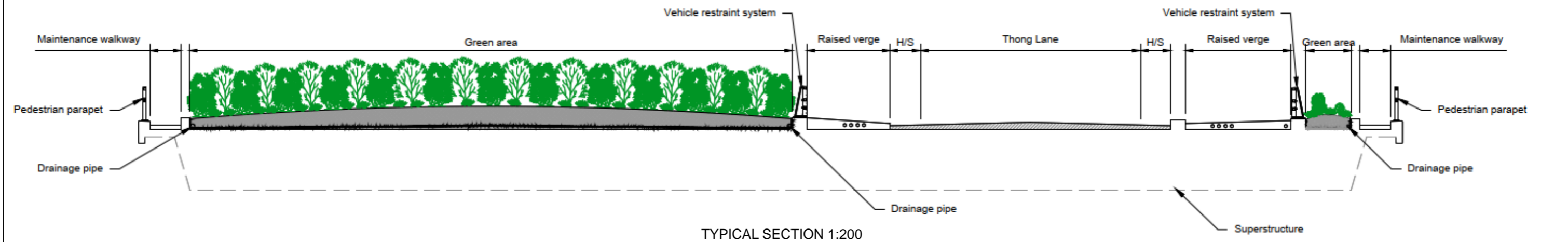
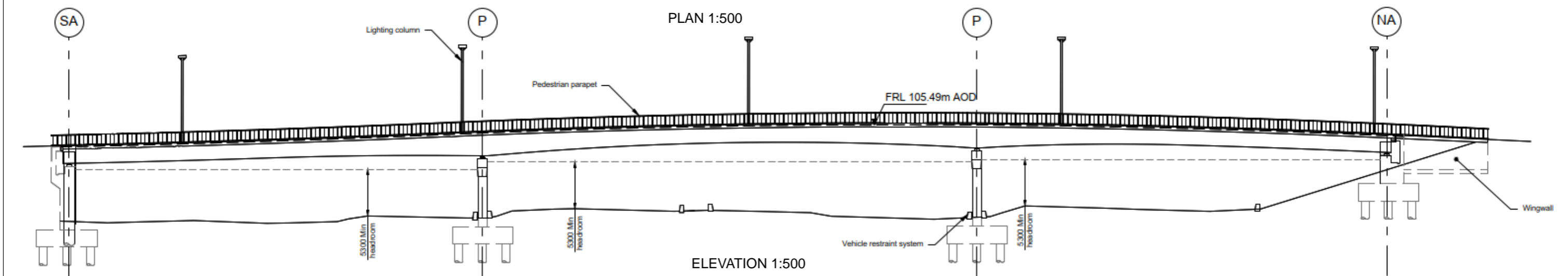
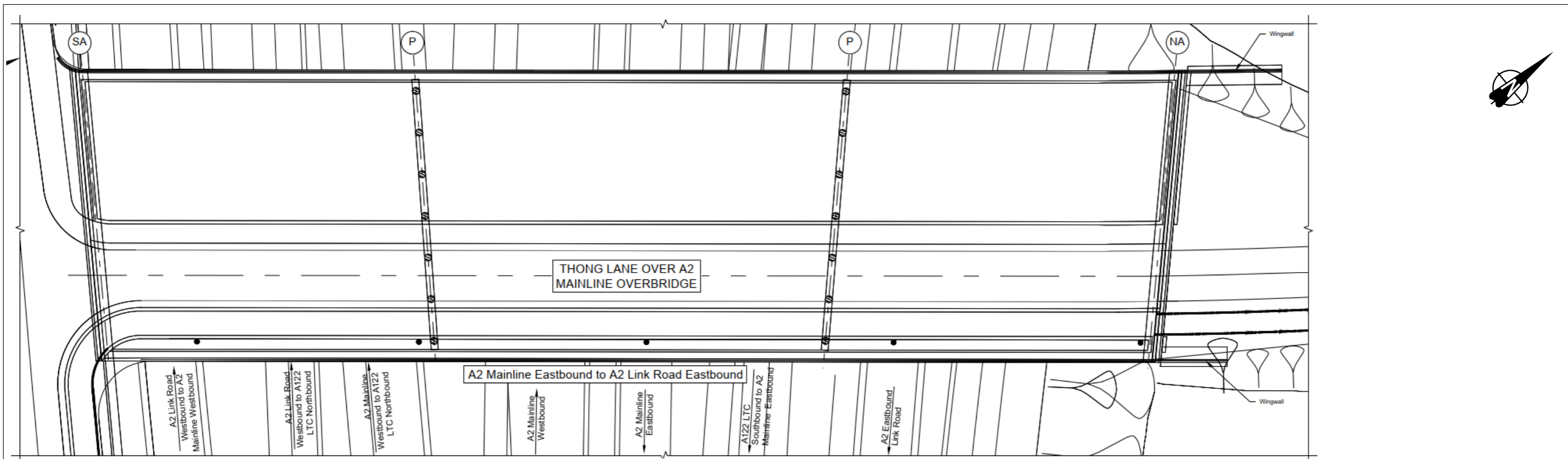


Client: national highways

Project: LOWER THAMES CROSSING

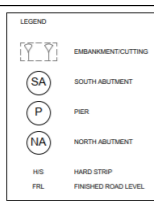
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| Application Document Number | TR010032/APP/6.2   | Scale         | AS SHOWN |          |     |
| Drawing Title               | Figure E3b - Specifications for Green Bridge Design - Brewers Road Page 1 of 7 |               |          |          |     |
| Drawing Number              | HE540039-CJV-EBD-SZP_EGNE0000000-DR-LE-60114                                   |               |          |          |     |



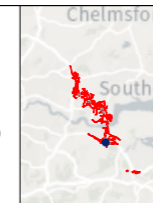
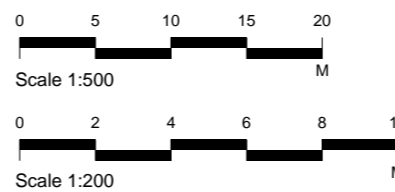


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| Rev | Status | Rev. Date  | Purpose of revision | Drawn | Chkd | Apprv'd |
|-----|--------|------------|---------------------|-------|------|---------|
| P01 | S8     | 18/11/2022 | DCO Application     | LK    | SM   | BF      |

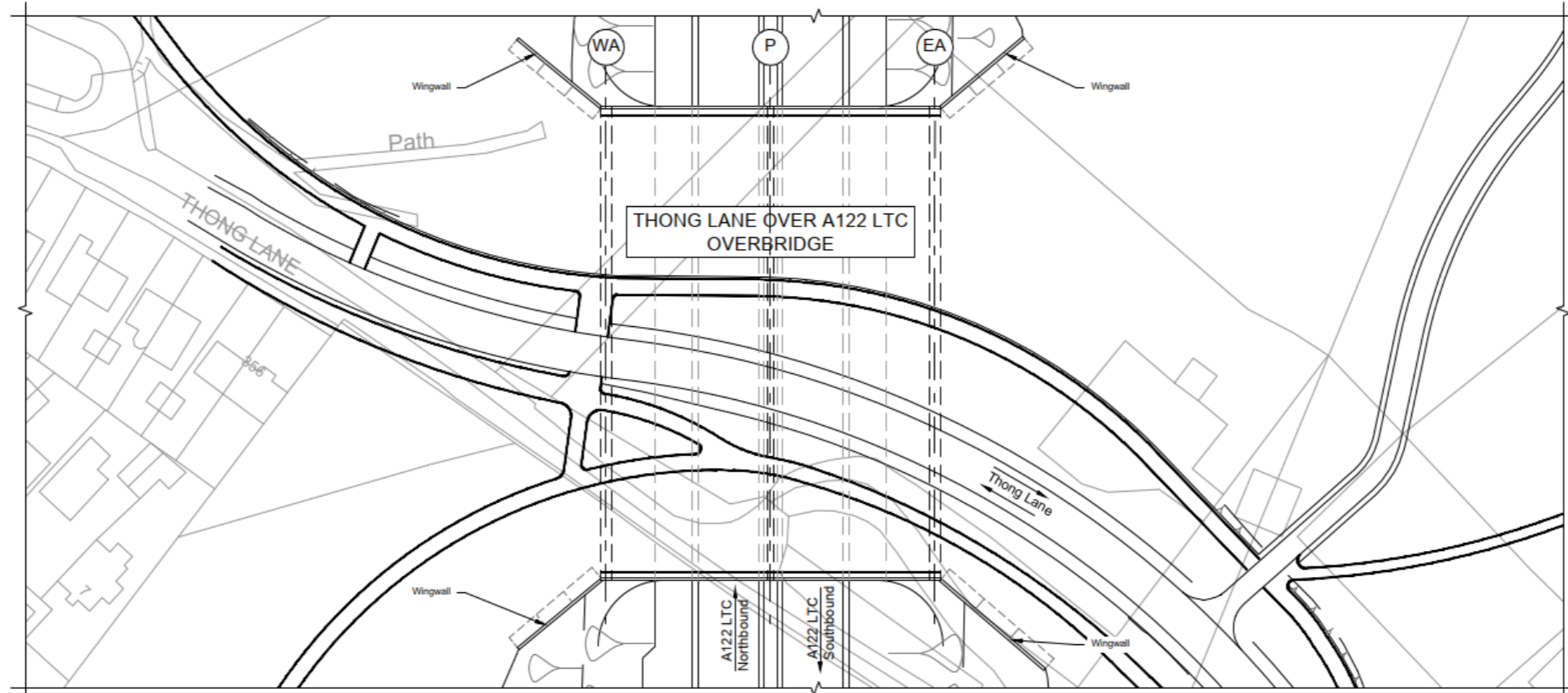


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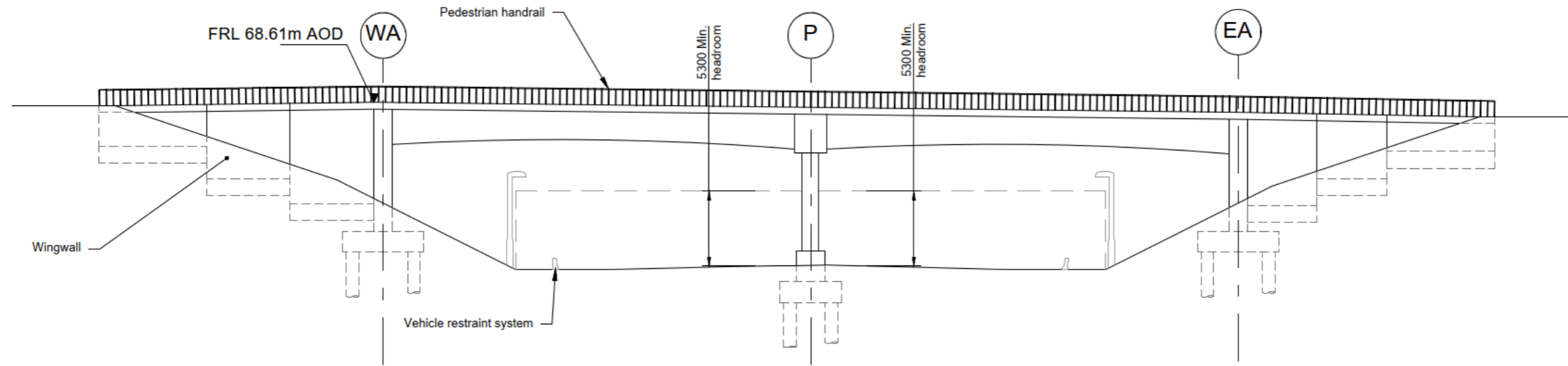


Client  
national highways  
Project  
**LOWER THAMES CROSSING**

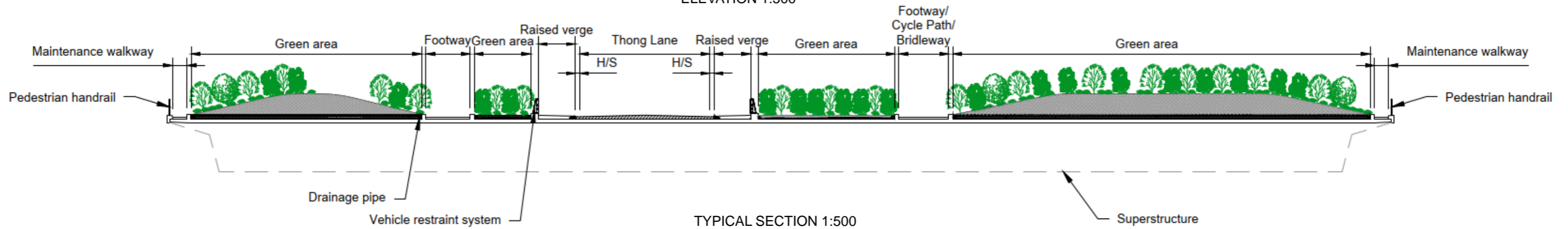
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|-----------------------------|---|---------------|----------|
| Application Document Number | TR010032/APP/6.2  | A3            | P01      |
| Scale                       | AS SHOWN  |               |          |
| Drawing Title               | Figure E3b - Specifications for Green Bridge Design - Thong Lane South<br>Page 2 of 7 |               |          |
| Drawing Number              | HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60114   |               |          |



PLAN 1:1000



ELEVATION 1:500



TYPICAL SECTION 1:500

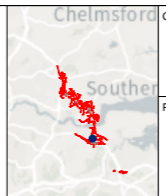
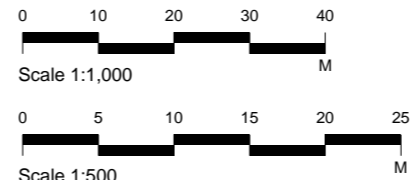
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| Rev | Status | Rev. Date  | Purpose of revision | Drawn | Chkd | Appr'd |
| P01 | S8     | 18/11/2022 | DCO Application     | LK    | SM   | BF     |

LEGEND

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

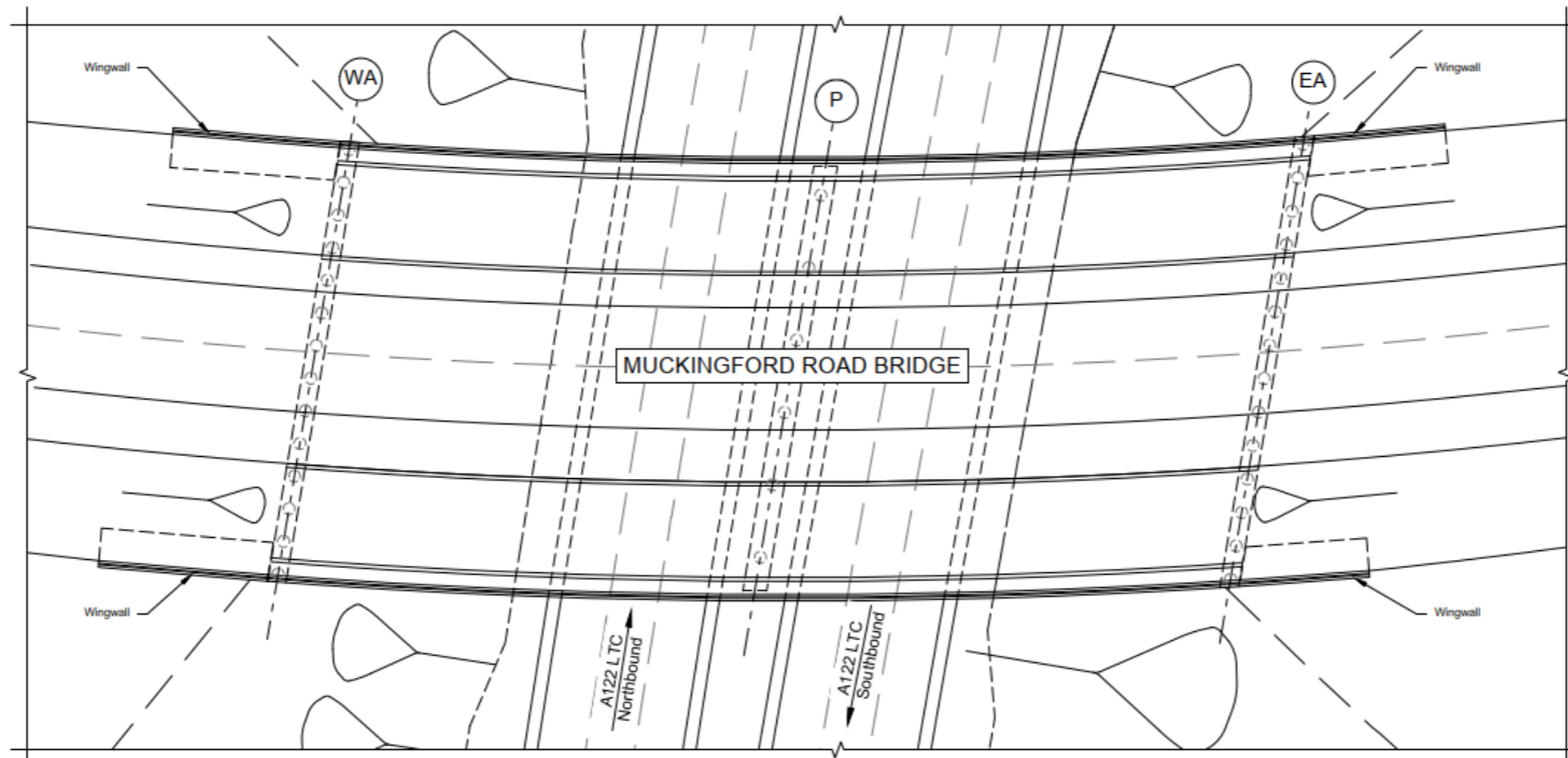
- Notes:
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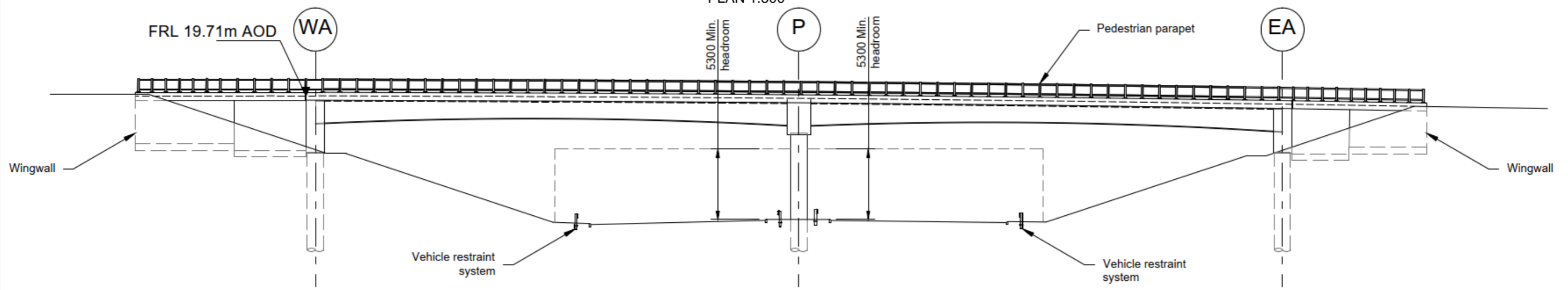
Client: national highways

Project: LOWER THAMES CROSSING

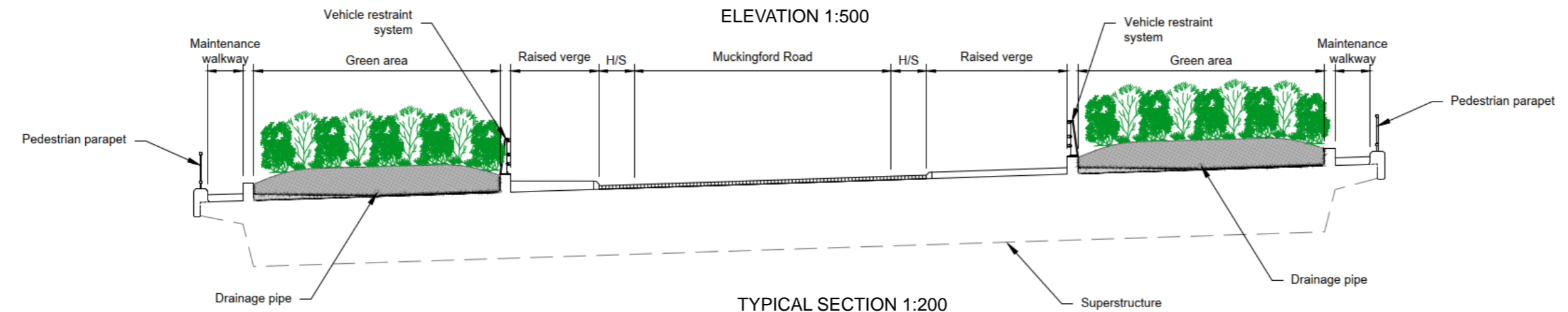
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| Application Document Number | TR010032/APP/6.2   | Scale         | AS SHOWN |          |     |
| Drawing Title               | Figure E3b - Specifications for Green Bridge Design - Thong Lane North Page 3 of 7 |               |          |          |     |
| Drawing Number              | HE540039-CJV-EBD-SZP_EGNE0000000-DR-LE-60114                                       |               |          |          |     |



PLAN 1:500



ELEVATION 1:500

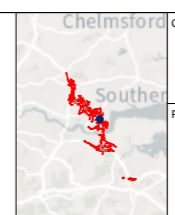
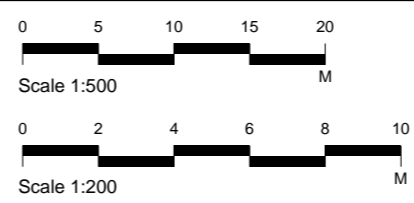


TYPICAL SECTION 1:200

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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 |                     |
|--------|---------------------|
|        | WEST ABUTMENT       |
|        | PIERS               |
|        | EAST ABUTMENT       |
|        | HANDSTRIP           |
|        | FINISHED ROAD LEVEL |

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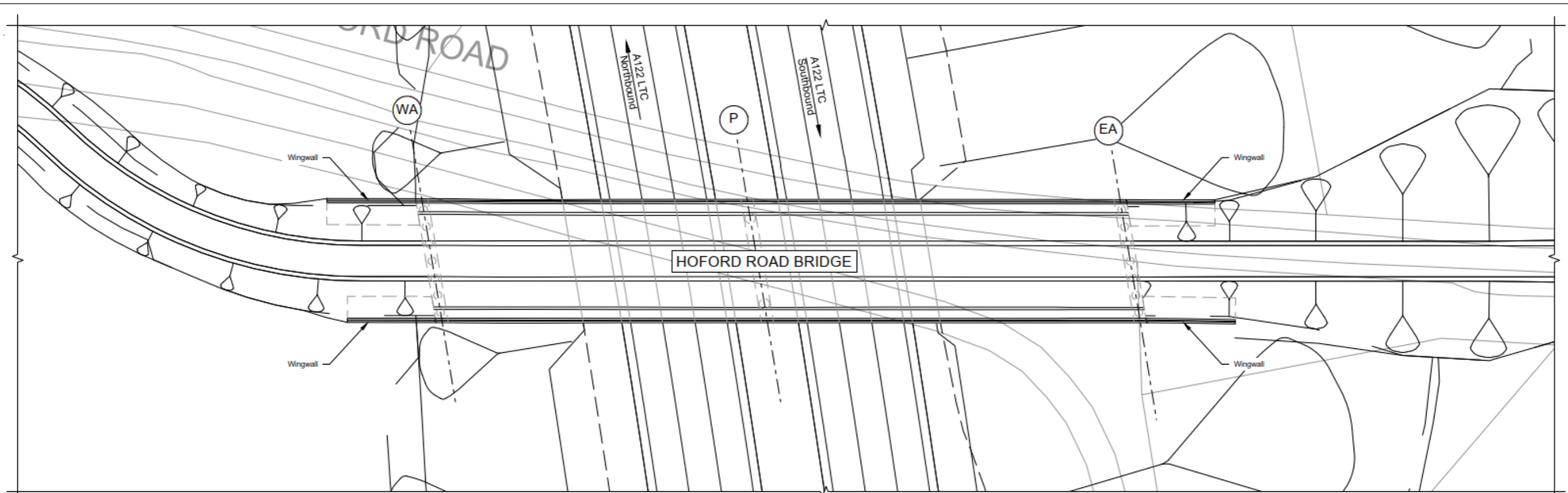


Client: **national highways**

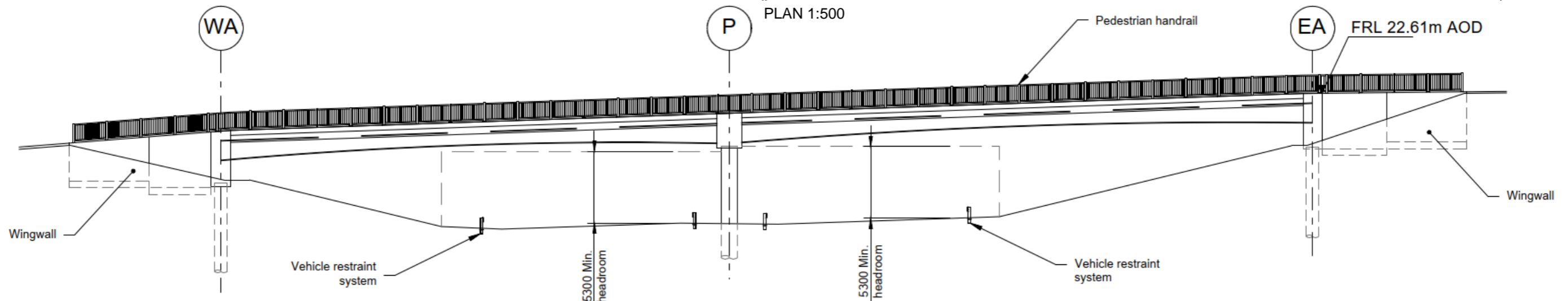
Project: **LOWER THAMES CROSSING**

|  |                  |               |          |          |     |
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| Application Document Number  | TR010032/APP/6.2 | Scale         | AS SHOWN |          |     |
| Drawing Title  |                  |               |          |          |     |
| Figure E3b - Specifications for Green Bridge Design - Muckingford Road |                  |               |          |          |     |
| Page 4 of 7  |                  |               |          |          |     |
| Drawing Number   |                  |               |          |          |     |
| HE540039-CJV-EBD-SZP_EGNE0000000-DR-LE-60114                           |                  |               |          |          |     |

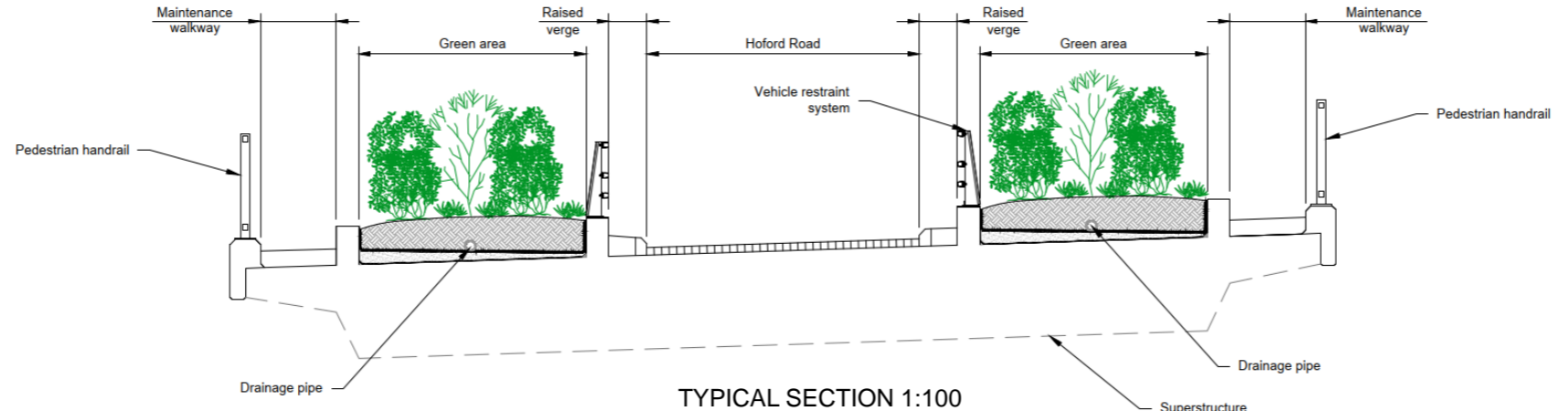




PLAN 1:500

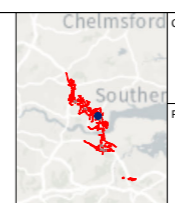
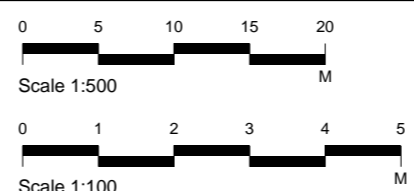


ELEVATION 1:500



TYPICAL SECTION 1:100

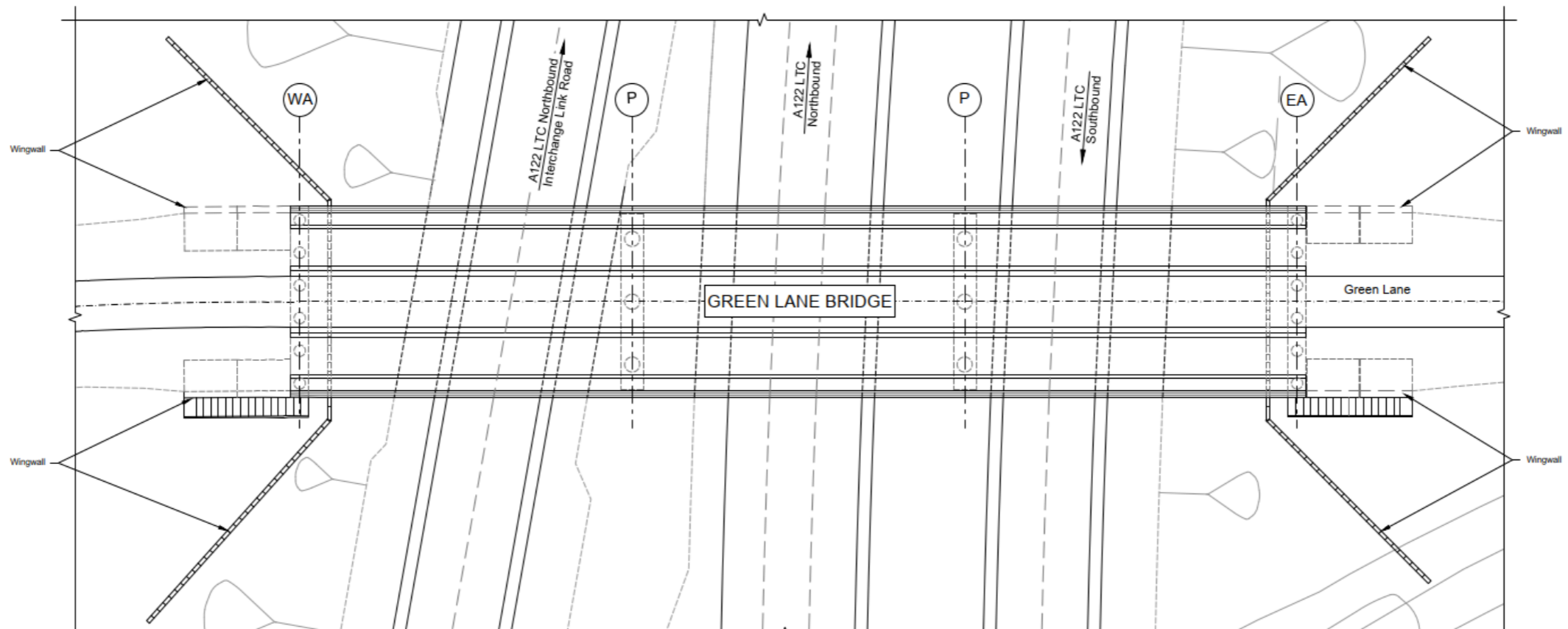
**Notes:**  
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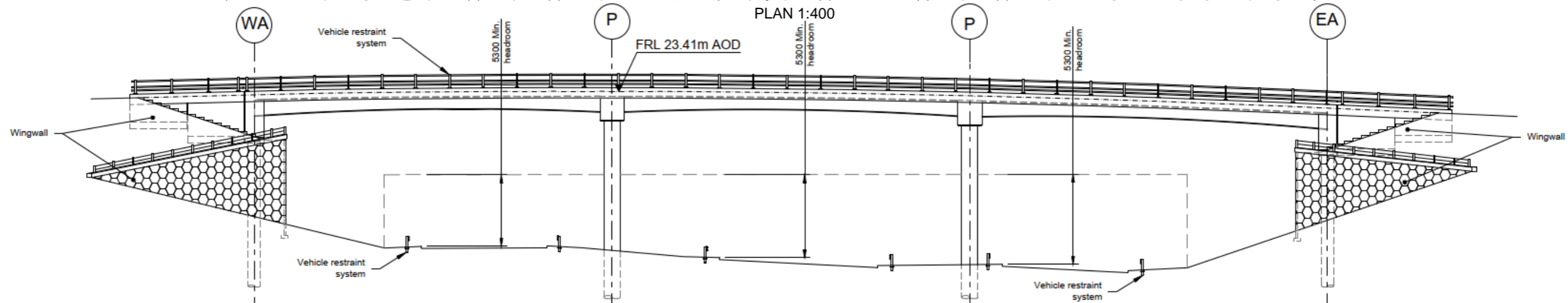
Client: national highways  
 Project: LOWER THAMES CROSSING

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| Application Document Number | TR010032/APP/6.2   | Scale         | AS SHOWN |          |     |
| Drawing Title               | Figure E3b - Specifications for Green Bridge Design - Hoford Road<br>Page 5 of 7 |               |          |          |     |
| Drawing Number              | HE540039-CJV-EBD-SZP_EGNE0000000-DR-LE-60114                                     |               |          |          |     |

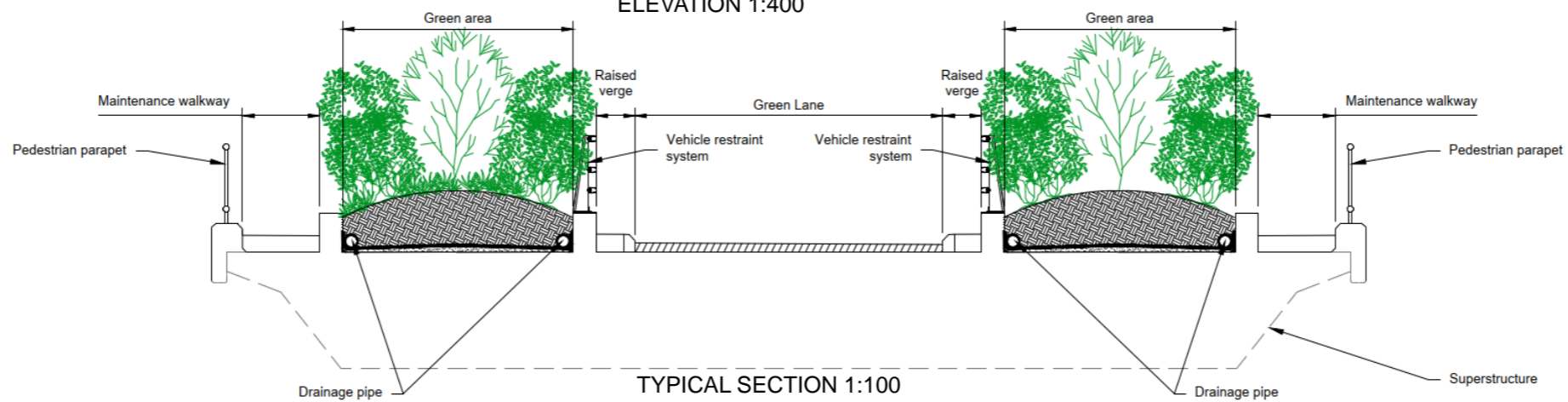
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| P01  | S8     | 18/11/2022  | DCO Application     | LK    | SM   | BF      |
| Rev  | Status | Rev. Date   | Purpose of revision | Drawn | Chkd | Apprv'd |



PLAN 1:400



ELEVATION 1:400

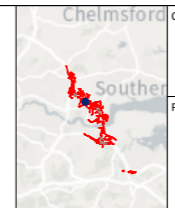
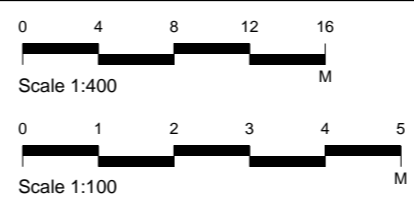


TYPICAL SECTION 1:100

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

| LEGEND |                     |
|--------|---------------------|
|        | EMBANKMENT/CUTTING  |
|        | WEST ABUTMENT       |
|        | PIER                |
|        | EAST ABUTMENT       |
|        | FINISHED ROAD LEVEL |

- 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).

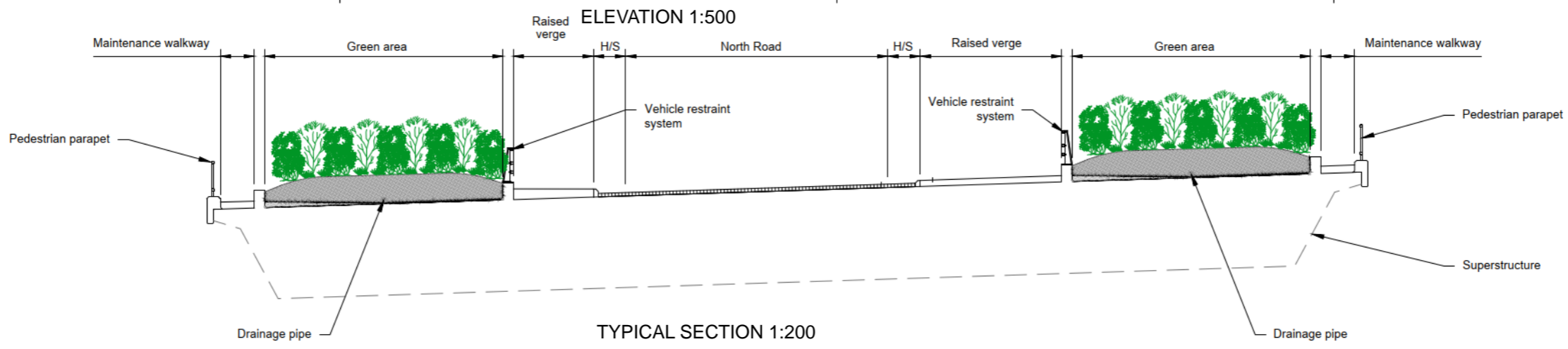
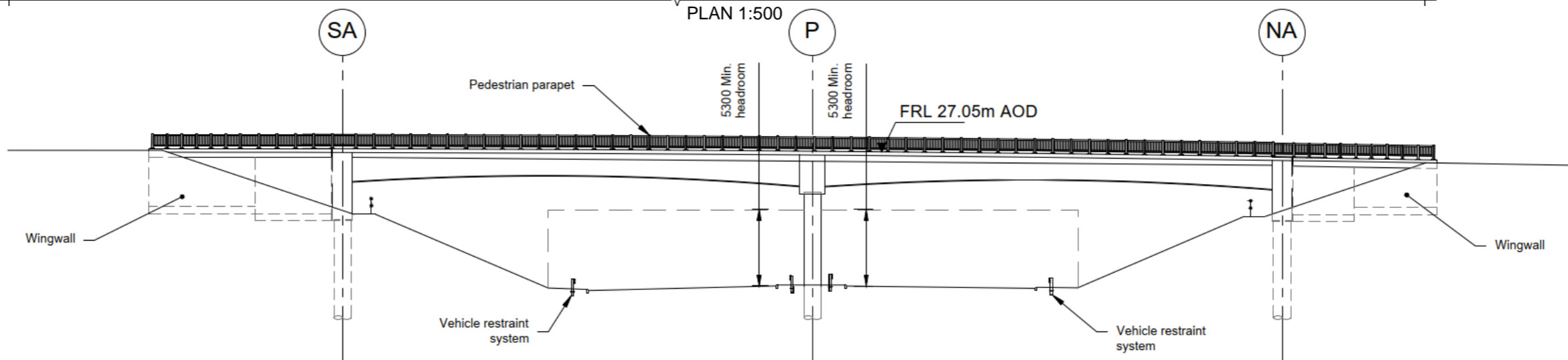
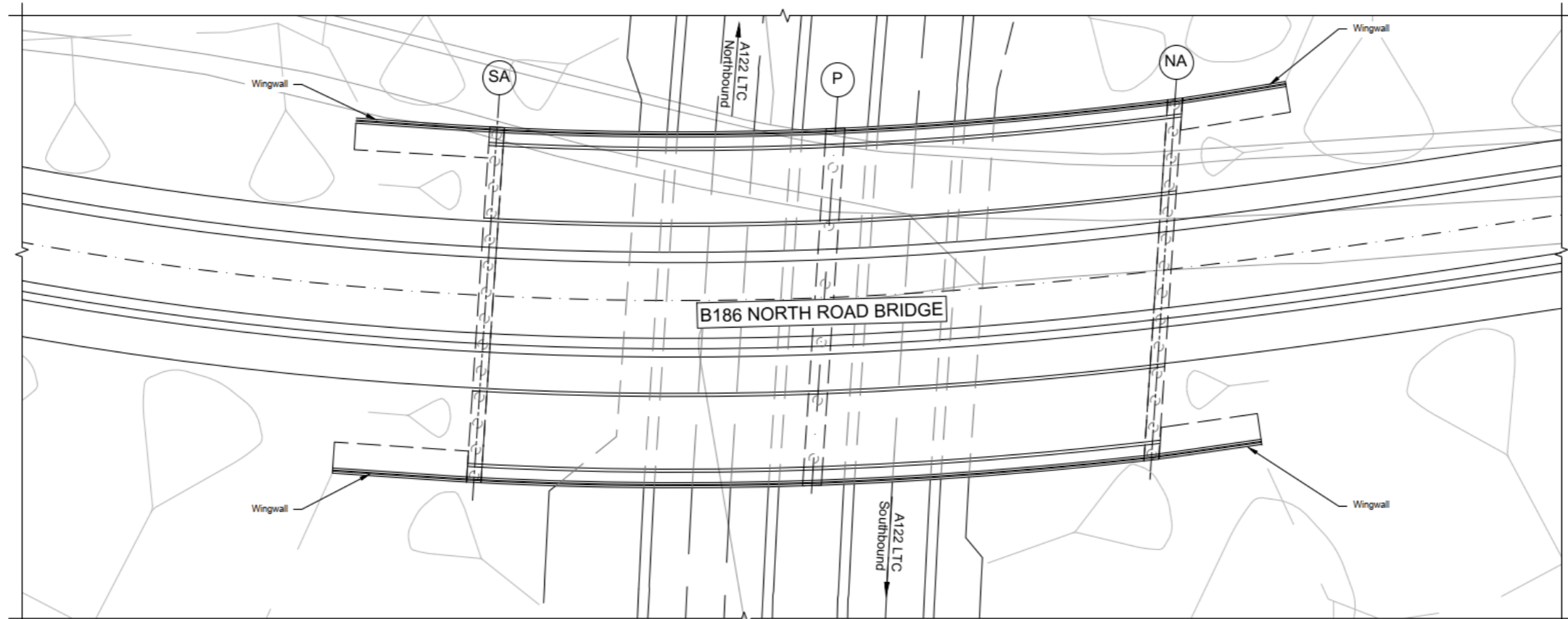


Client: **national highways**

Project: **LOWER THAMES CROSSING**

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|--|------------------|---------------|----------|----------|-----|
| 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 - Green Lane Page 6 of 7 |                  |               |          |          |     |
| Drawing Number   |                  |               |          |          |     |
| HE540039-CJV-EBD-SZP_EGNE0000000-DR-LE-60114                                 |                  |               |          |          |     |



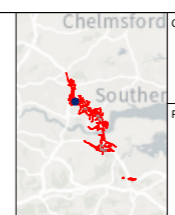
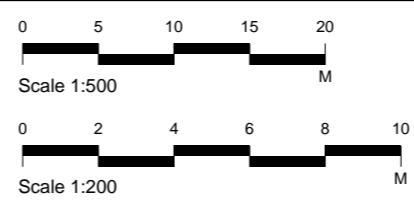


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| P01  | S8     | 18/11/2022 | DCO Application     | LK    | SM   | BF      |
| Rev  | Status | Rev. Date  | Purpose of revision | Drawn | Chkd | Apprv'd |

| 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).
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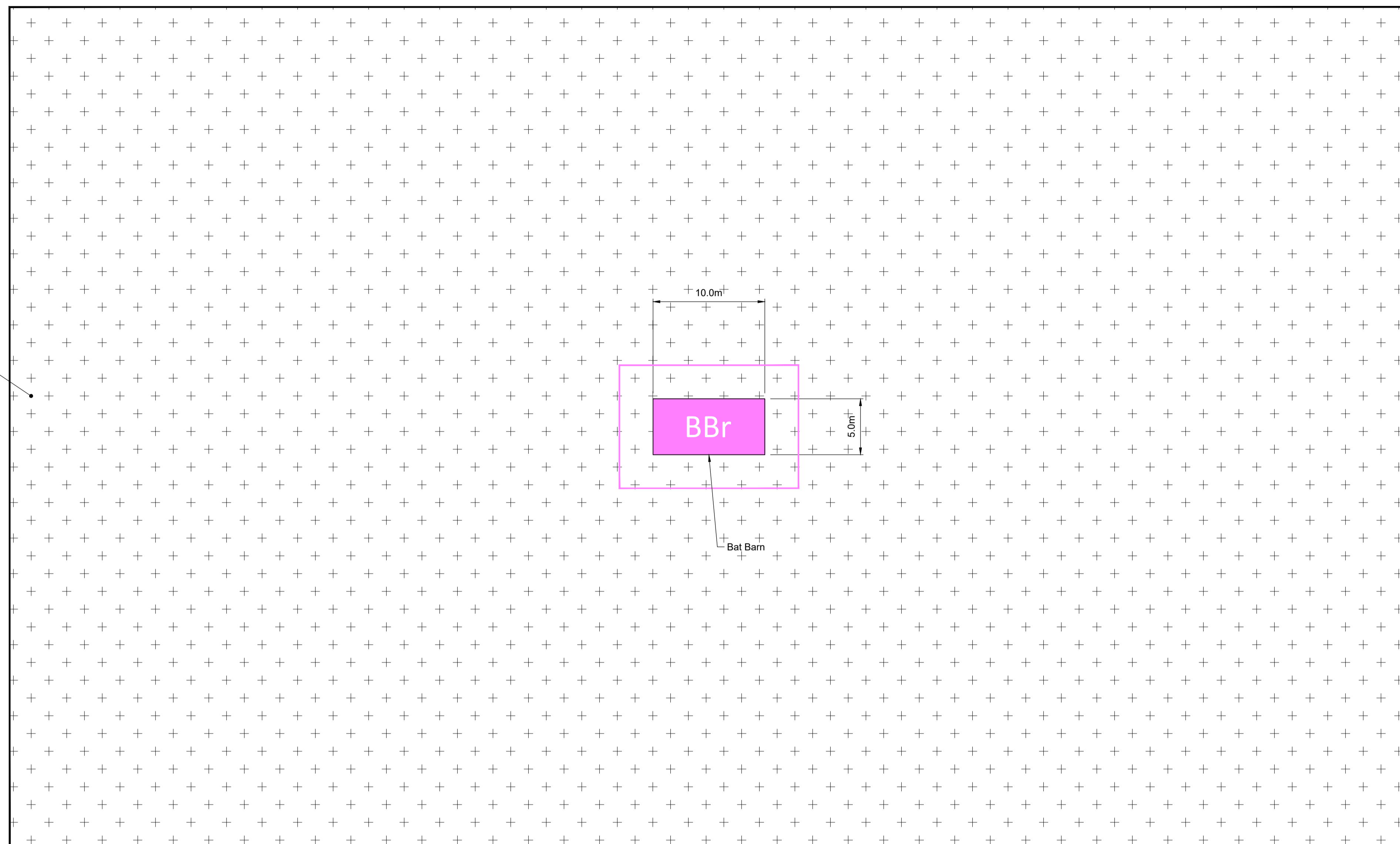


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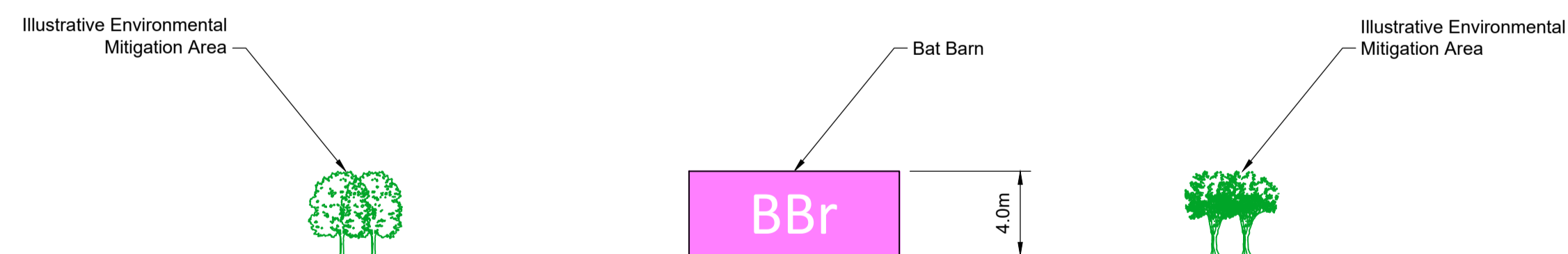
Project: **LOWER THAMES CROSSING**

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|--|------------------|---------------|----------|----------|-----|
| 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



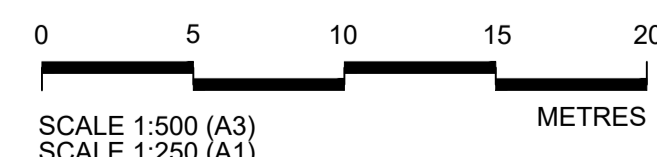
TYPICAL ELEVATION

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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

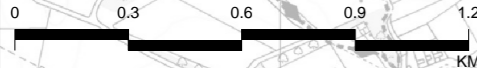
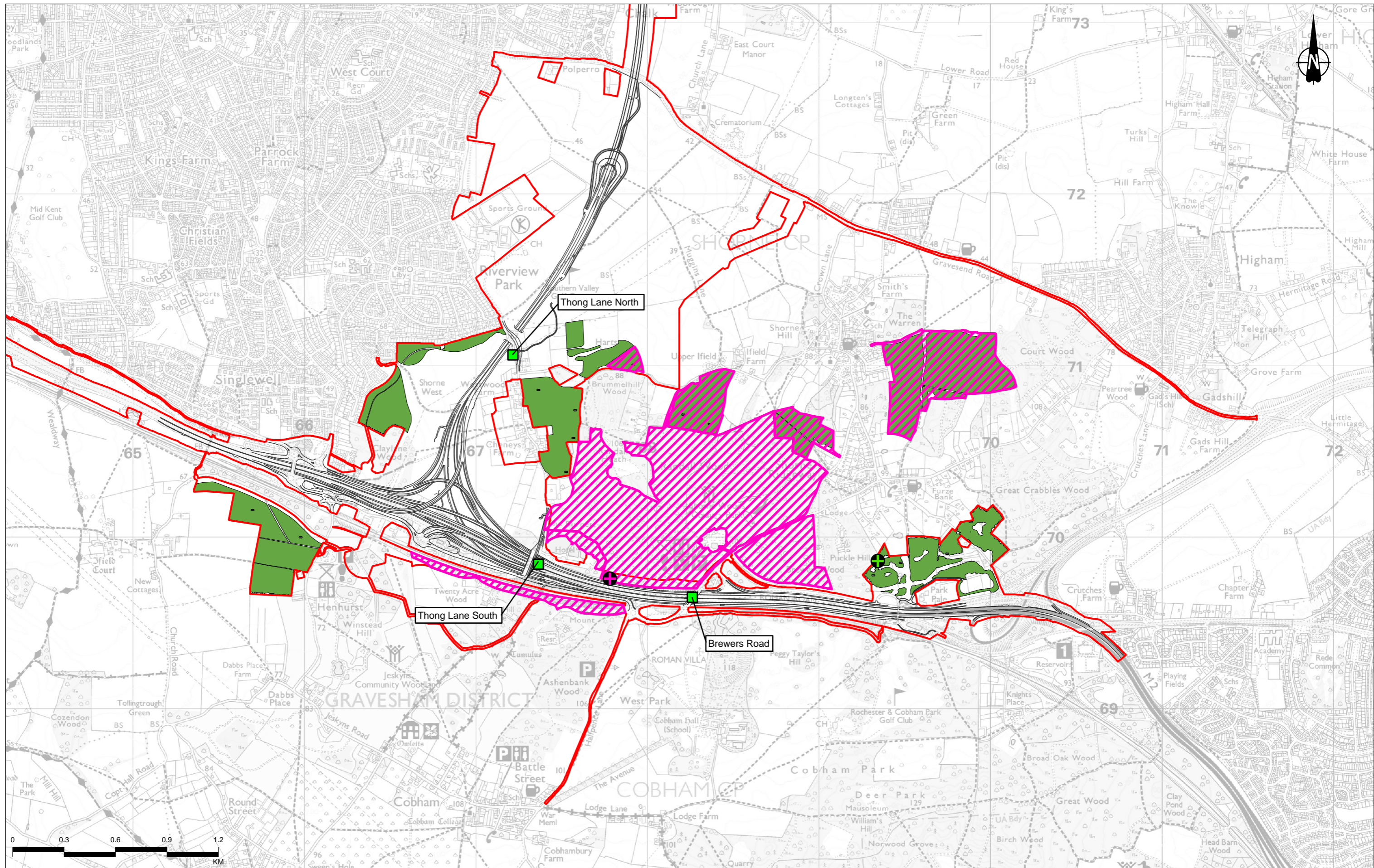
Drawing title

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

Drawing Number

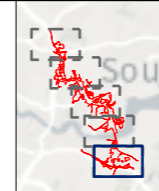
HE540039-CJV-BOP-SZA\_RX000000\_-DR-CH-10721





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

|     |        |            |                          |       |      |        |
|-----|--------|------------|--------------------------|-------|------|--------|
| 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 |

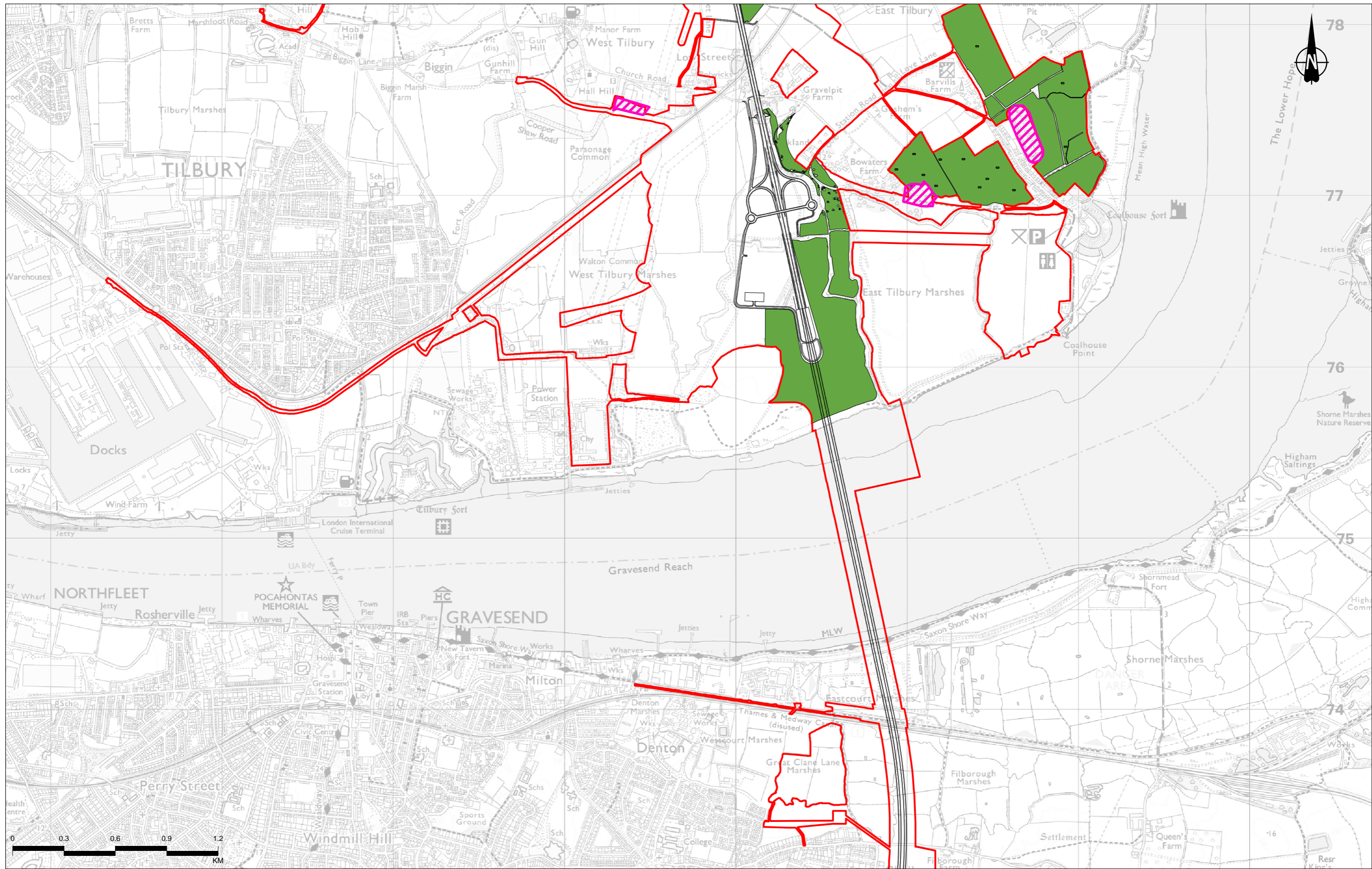


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Project  
**LOWER THAMES CROSSING**

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

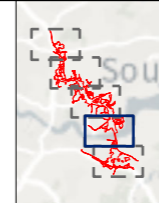




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| P03 | S9     | 13/07/2023 | Natural England comments | CD    | SM   | BF     |
| Rev | Status | Rev. Date  | Purpose of revision      | Drawn | Chkd | Apprvd |

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

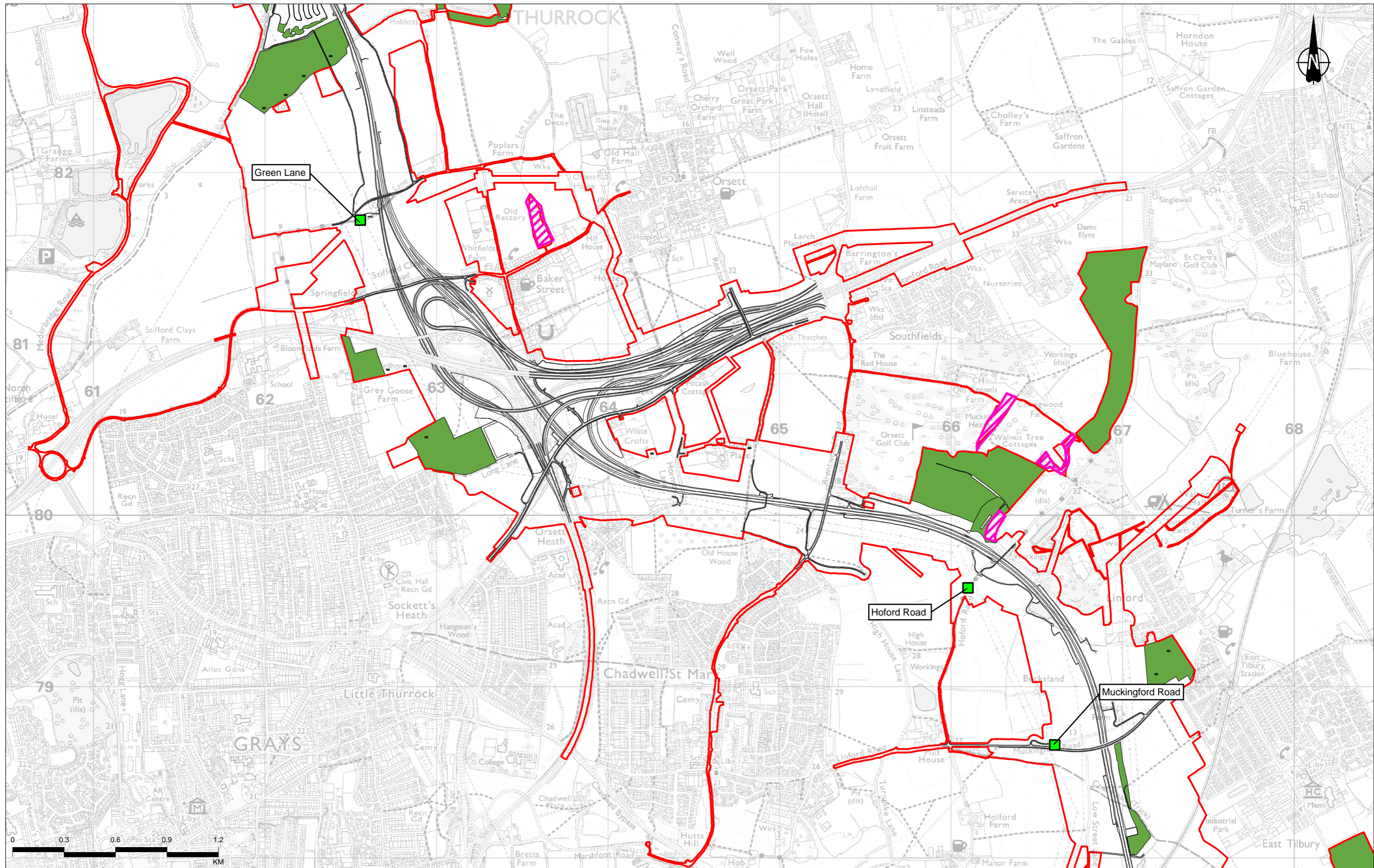


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**LOWER THAMES CROSSING**

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| Drawing Title               | <b>Figure E4 - Monitoring, Management and Maintenance</b> |               |          |          |     |
|                             | Page 2 of 5   |               |          |          |     |
| Drawing Number              | HE540039-CJV-EBD-SZP_EGNE0000000-DR-LE-60015              |               |          |          |     |

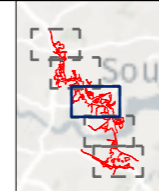




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| P03 | S9     | 13/07/2023 | Natural England comments | CD    | SM   | BF     |
| Rev | Status | Rev. Date  | Purpose of revision      | Drawn | Chkd | Apprvd |

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



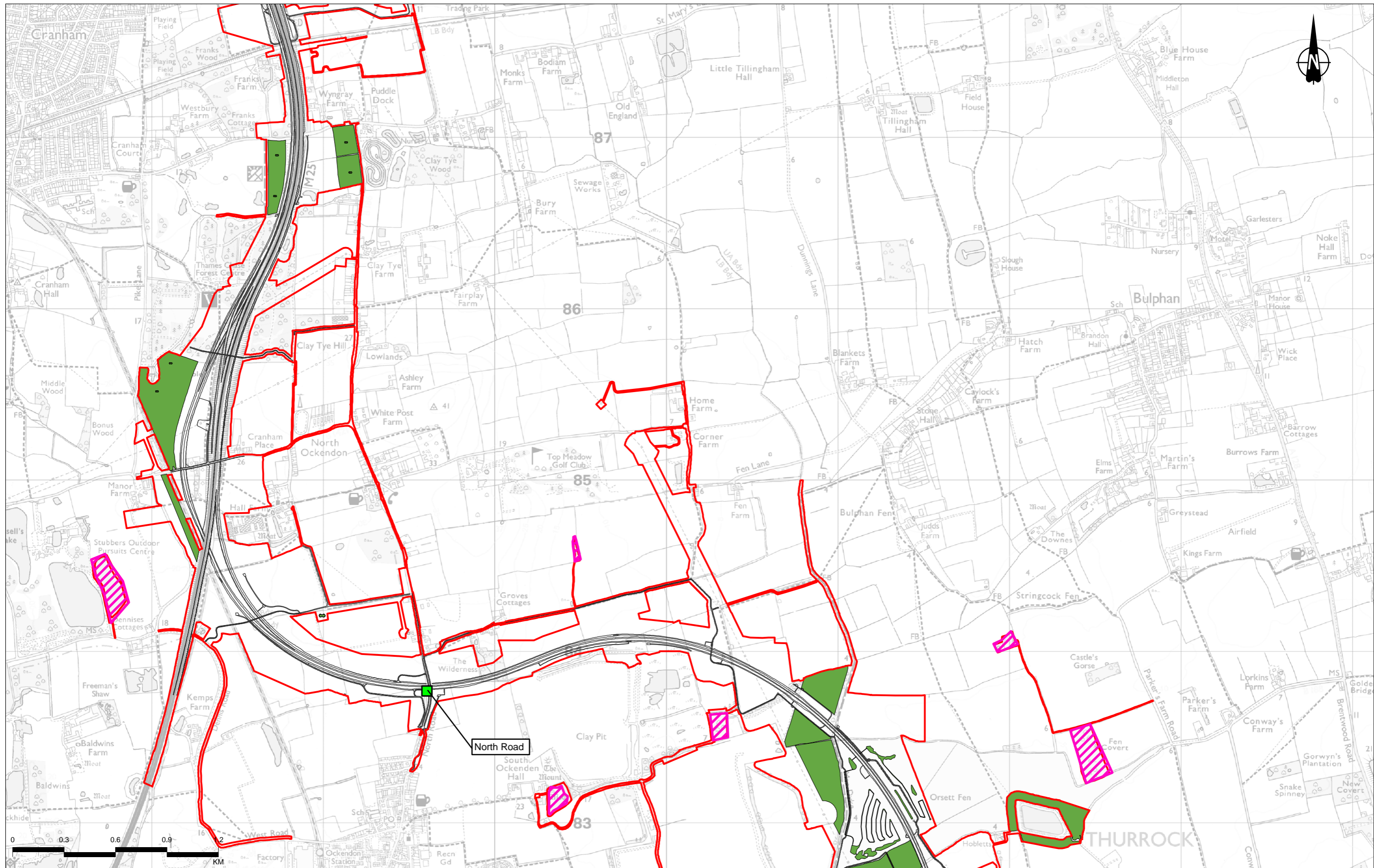
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| Application Document Number | TR010032/APP/6.2  | Scale         | 1:20,000 |          |     |
| Drawing Title               | <b>Figure E4 - Monitoring, Management and Maintenance</b> |               |          |          |     |
| Drawing Number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

Page 3 of 5

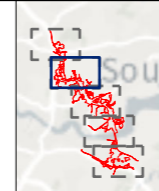




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| P02 | S8     | 20/10/2022 | DCO Application          | CD    | SM   | BF     |
| P03 | S9     | 13/07/2023 | Natural England comments | CD    | SM   | BF     |

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

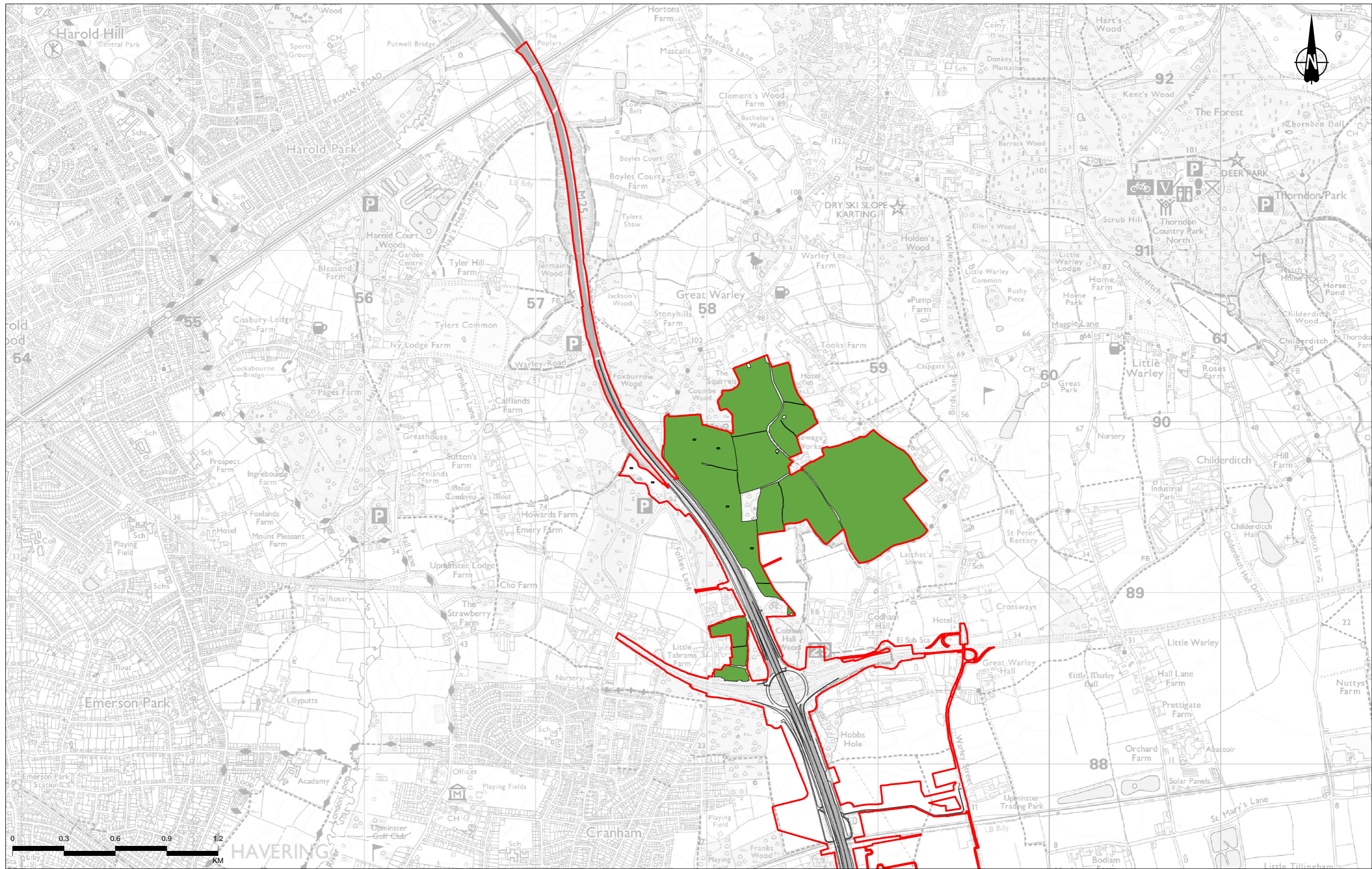


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| Status                      | DCO APPLICATION   | Original Size | A3       | Revision | P03 |
| Application Document Number | TR010032/APP/6.2  | Scale         | 1:20,000 |          |     |
| Drawing Title               | Figure E4 - Monitoring, Management and Maintenance<br>Page 4 of 5 |               |          |          |     |
| Drawing Number              | HE540039-CJV-EBD-SZP_EGNE0000000-DR-LE-60015                      |               |          |          |     |



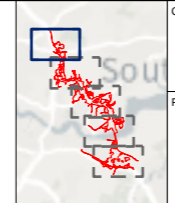


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| P03 | S9     | 13/07/2023 | Natural England comments | CD    | SM      | BF       |
| Rev | Status | Rev. Date  | Purpose of revision      | Drawn | Checked | Approved |

**Legend**

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



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| 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<br>Page 5 of 5 |               |          |          |     |
| Drawing Number              | HE540039-CJV-EBD-SZP_EGNE0000000-DR-LE-60015                      |               |          |          |     |



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