Lower Thames Crossing

6.3 Environmental Statement Appendices Appendix 8.17 - Draft EPS mitigation licence application - great crested newts (Tracked changes version)

(6 of 8)

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

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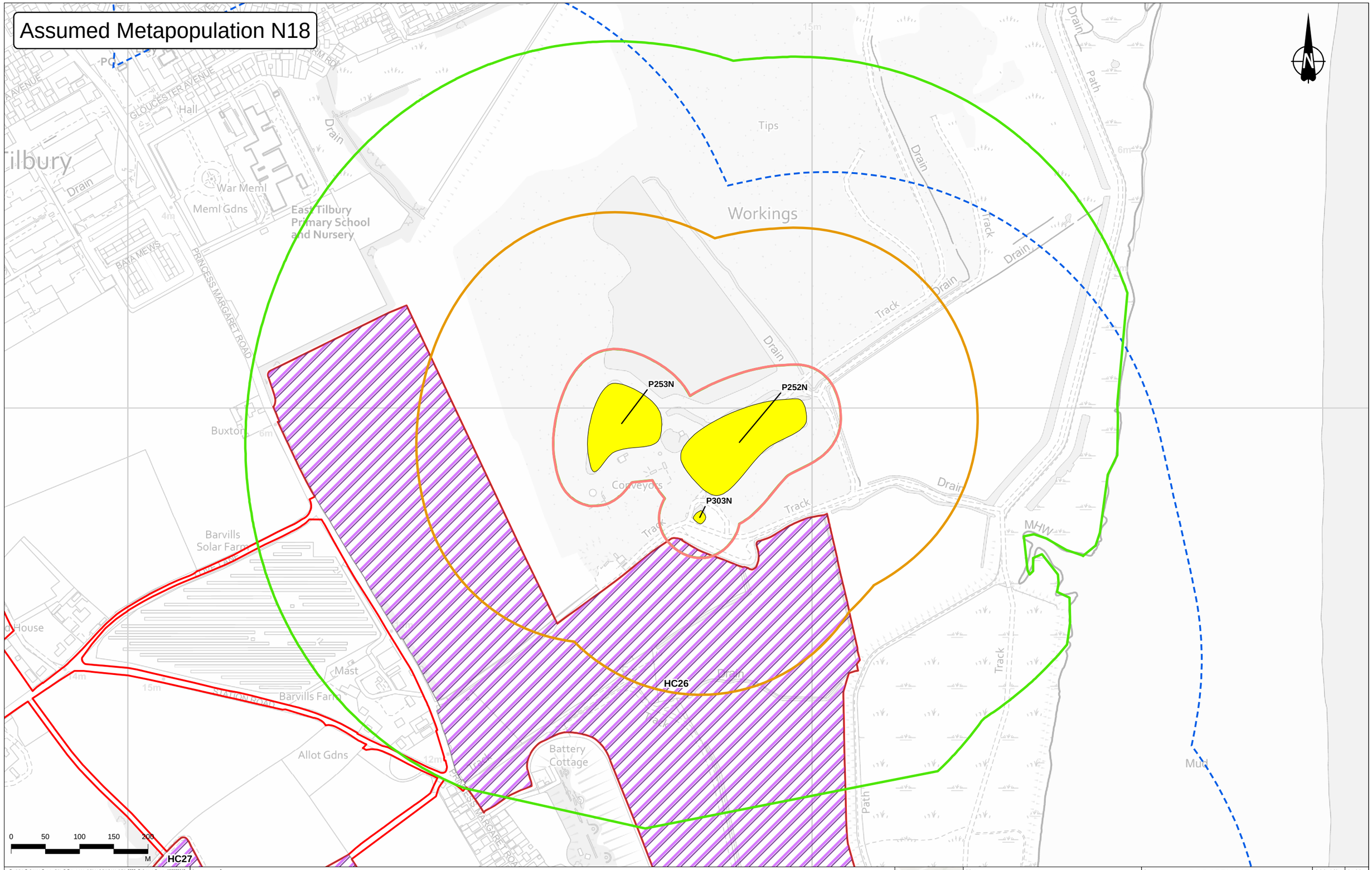
Assumed Metapopulation N18



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Legend

- Order Limits
- GCN Survey Area

Mitigation Receptor Areas

- Mitigation Area
- Receptor Site

Ponds

- Assumed present - No access

Pond buffers

- 50m pond buffer
- 250m pond buffer
- 500m pond buffer

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P03	S9	10/05/2023	Natural England comments	CD	SM	BF

Client: national highways

Project: LOWER THAMES CROSSING

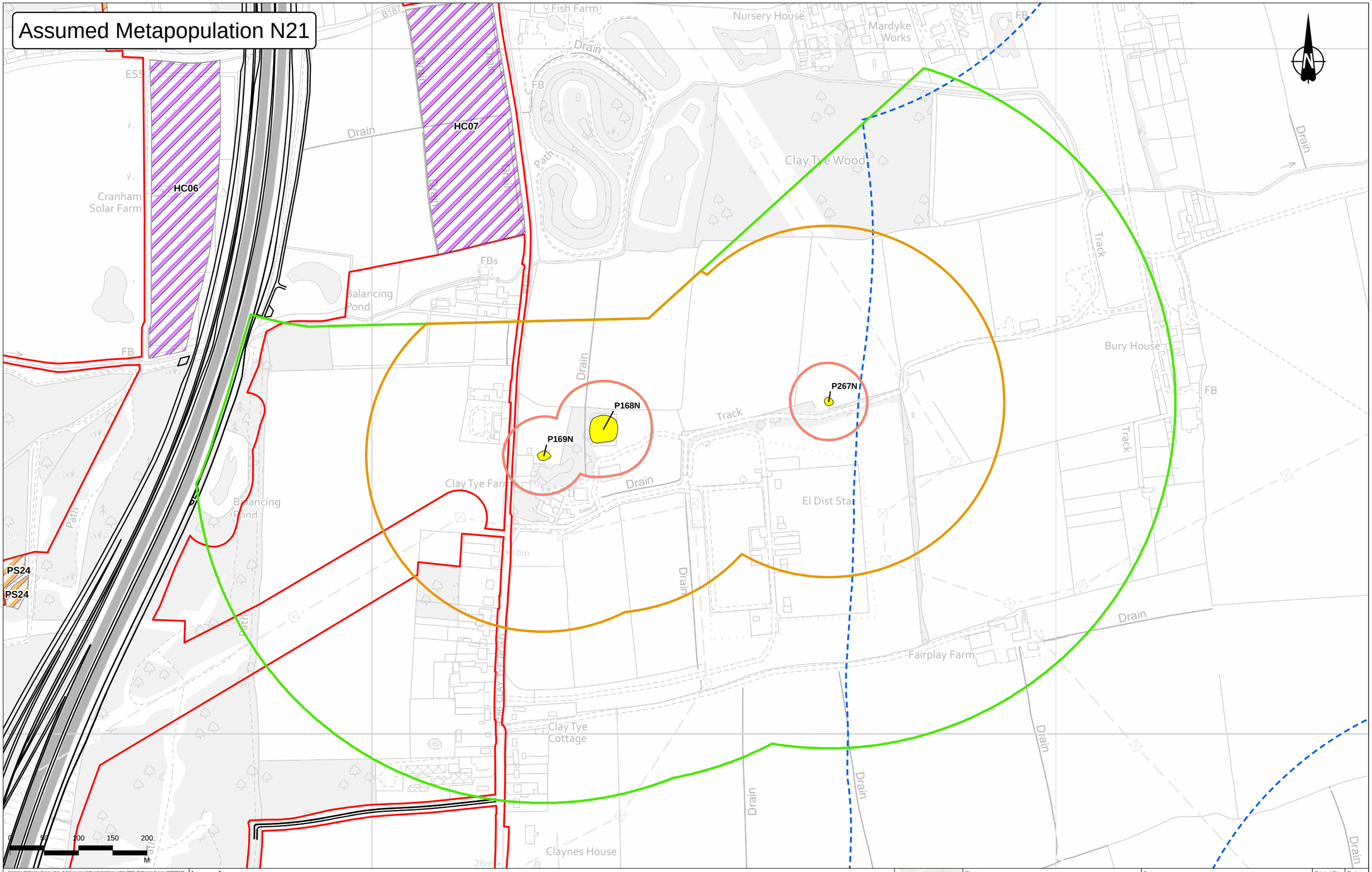
Status: DCO APPLICATION | Original Size: A3 | Revision: P03

Application Document Number: TR010032/APP/6.3 | Scale: 1:5,000

Drawing Title: Figure E2 - Receptor Map
Assumed Metapopulation N18
Page 20 of 21

Drawing Number: HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60027

Assumed Metapopulation N21



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Legend

- Order Limits
- Route Alignment
- GCN Survey Area
- Receptor Site

Mitigation Receptor Areas

- Mitigation Area

Ponds

- Assumed present - No access

Pond buffers

- 50m pond buffer
- 250m pond buffer
- 500m pond buffer

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P03	S9	10/05/2023	Natural England comments	CD	SM	BF

Client: national highways

Project: LOWER THAMES CROSSING

Status: DCO APPLICATION

Original Size: A3

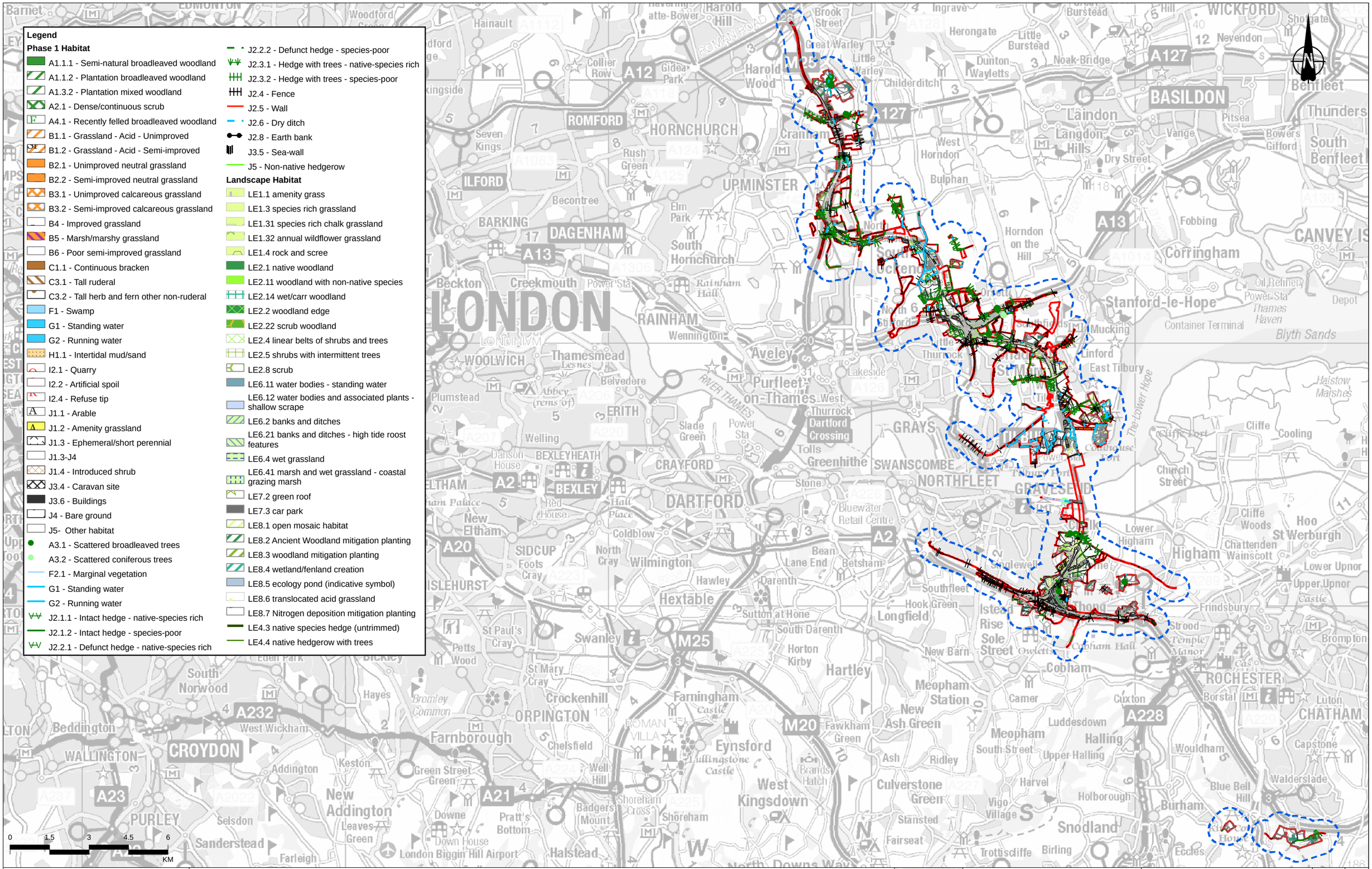
Revision: P03

Application Document Number: TR010032/APP/6.3

Scale: 1:5,000

Drawing Title: Figure E2 - Receptor Map
Assumed Metapopulation N21
Page 21 of 21

Drawing Number: HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60027



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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P02	S8	27/09/2022	DCO Application	CD	HT	BF
P03	S9	30/06/2023	Natural England comments	CD	SM	BF

Client: national highways

Project: LOWER THAMES CROSSING

Status: DCO APPLICATION

Original Size: A3

Revision: P03

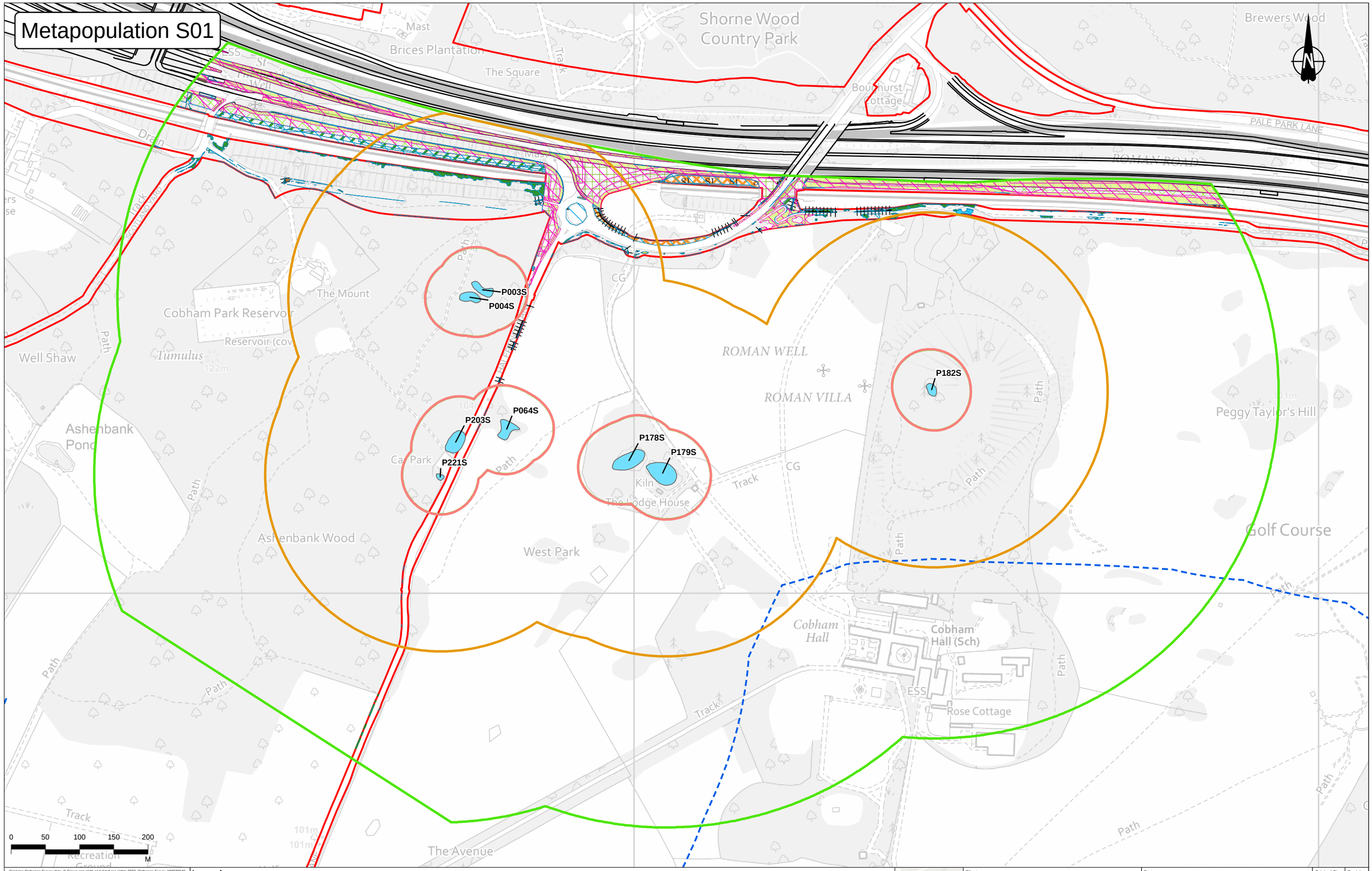
Application Document Number: TR010032/APP/6.3

Scale: 1:130,000

Drawing Title: Figure E3.1 - Habitat Measure Map Legend

Drawing Number: HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60035

Metapopulation S01



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Legend

- Order Limits
- Route alignment
- GCN Survey Area
- Habitat creation
- Reinstated habitat
- Ponds

Pond buffers

- 50m pond buffer
- 250m pond buffer
- 500m pond buffer

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P02	S8	18/10/2022	DCO Application	CD	HT	BF
P03	S9	30/06/2023	Natural England comments	CD	SM	BF

Client: national highways

Project: LOWER THAMES CROSSING

Status: DCO APPLICATION

Original Size: A3

Revision: P03

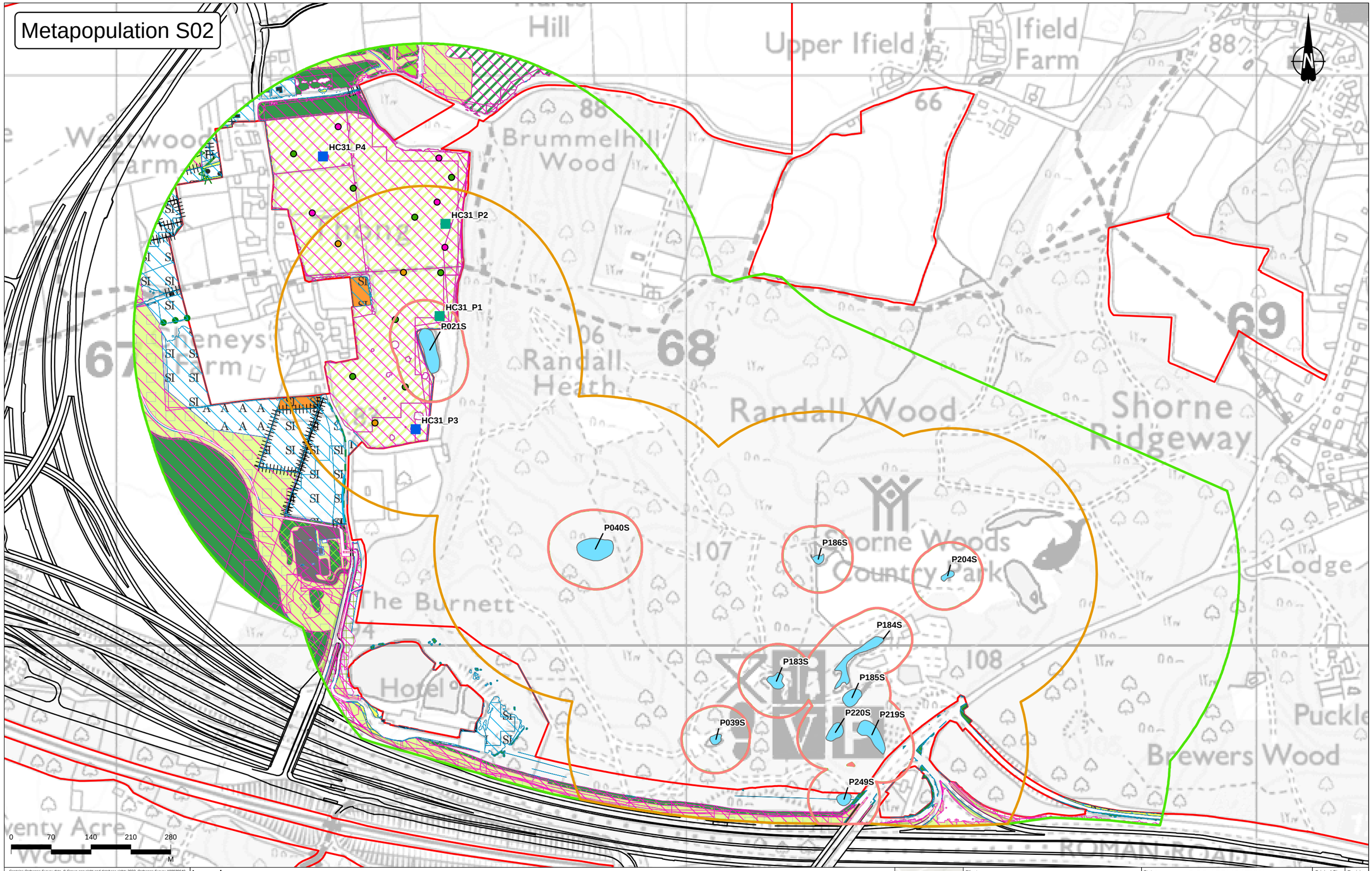
Application Document Number: TR010032/APP/6.3

Scale: 1:5,000

Drawing Title: Figure E3.1 - Habitat Measure Map Metapopulation S01

Drawing Number: HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60035

Metapopulation S02



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Legend

- Order Limits
- Route alignment
- GCN Survey Area
- Habitat creation
- Reinstated habitat
- Ponds

Pond buffers

- 50m pond buffer
- 250m pond buffer
- 500m pond buffer

Mitigation

- GCN pond
- Non GCN pond
- Large hibernacula
- Refugia

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P02	S8	18/10/2022	DCO Application	CD	HT	BF
P03	S9	30/06/2023	Natural England comments	CD	SM	BF

Client: national highways

Project: LOWER THAMES CROSSING

Status: DCO APPLICATION

Original Size: A3

Revision: P03

Application Document Number: TR010032/APP/6.3

Scale: 1:6,000

Drawing Title: Figure E3.1 - Habitat Measure Map Metapopulation S02

Drawing Number: HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60035

Metapopulation S04

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Legend

- Order Limits
- Route alignment
- GCN Survey Area
- Habitat creation
- Reinstated habitat
- Ponds

Pond buffers

- 50m pond buffer
- 250m pond buffer
- 500m pond buffer

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P02	S8	18/10/2022	DCO Application	CD	HT	BF
P03	S9	30/06/2023	Natural England comments	CD	SM	BF

Client: national highways

Project: LOWER THAMES CROSSING

Status: DCO APPLICATION

Original Size: A3

Revision: P03

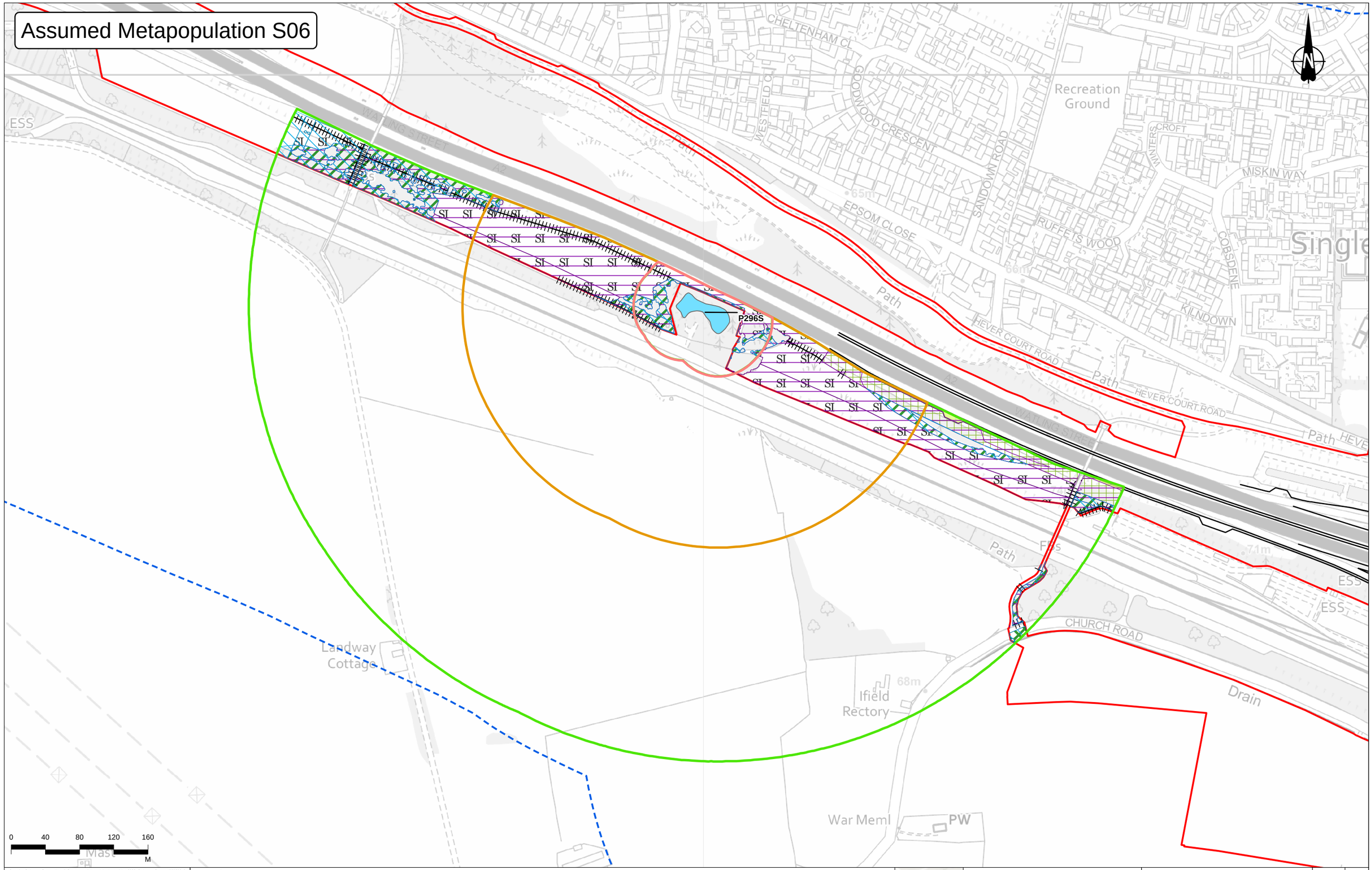
Application Document Number: TR010032/APP/6.3

Scale: 1:5,000

Drawing Title: Figure E3.1 - Habitat Measure Map Metapopulation S04

Drawing Number: HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60035

Assumed Metapopulation S06



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Legend

- Order Limits
- Route alignment
- GCN Survey Area
- Reinstated habitat managed for GCN
- Reinstated habitat
- Ponds

Pond buffers

- 50m pond buffer
- 250m pond buffer
- 500m pond buffer

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P02	S8	18/10/2022	DCO Application	CD	HT	BF
P03	S9	30/06/2023	Natural England comments	CD	SM	BF

Client: national highways

Project: LOWER THAMES CROSSING

Status: DCO APPLICATION

Original Size: A3

Revision: P03

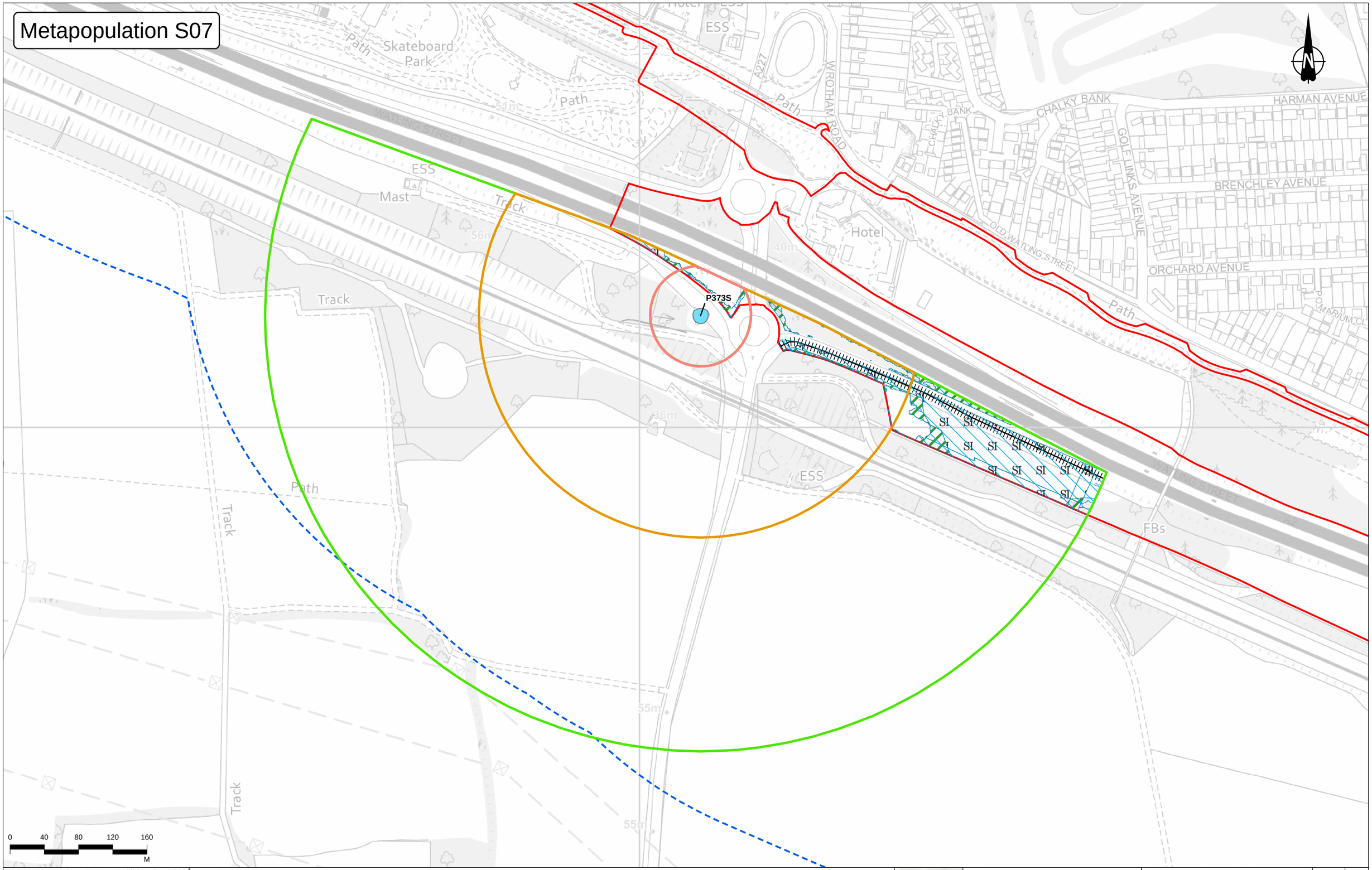
Application Document Number: TR010032/APP/6.3

Scale: 1:4,000

Drawing Title: Figure E3.1 - Habitat Measure Map Assumed Metapopulation S06

Drawing Number: HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60035

Metapopulation S07



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Legend

- Order Limits
- GCN Survey Area
- Reinstated habitat managed for GCN
- Reinstated habitat
- Ponds

Pond buffers

- 50m pond buffer
- 250m pond buffer
- 500m pond buffer

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P02	S8	18/10/2022	DCO Application	CD	HT	BF
P03	S9	30/06/2023	Natural England comments	CD	SM	BF

Client: national highways

Project: LOWER THAMES CROSSING

Status: DCO APPLICATION

Original Size: A3

Revision: P03

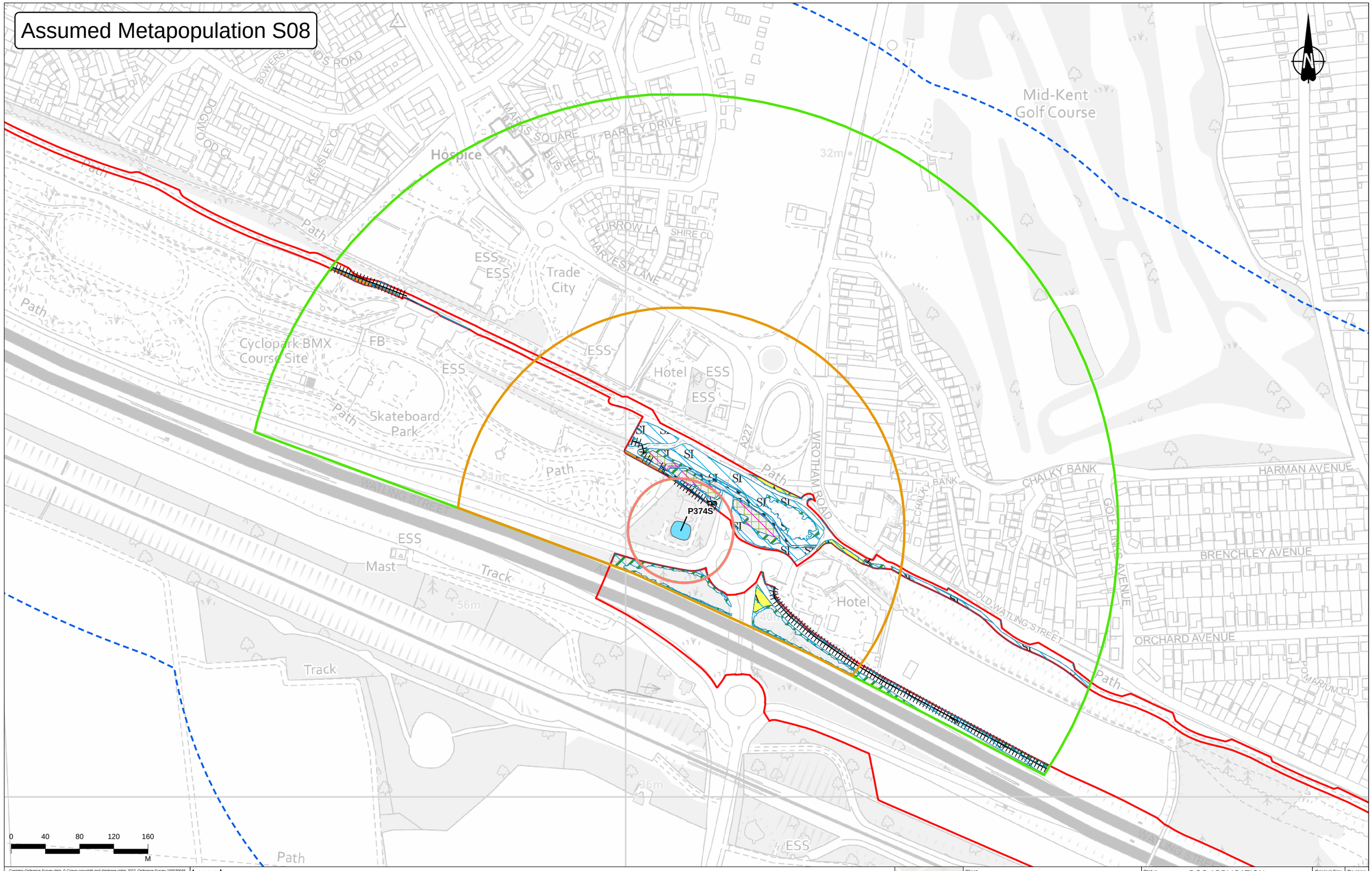
Application Document Number: TR010032/APP/6.3

Scale: 1:4,000

Drawing Title: Figure E3.1 - Habitat Measure Map Metapopulation S07

Drawing Number: HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60035

Assumed Metapopulation S08



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Legend

- Order Limits
- GCN Survey Area
- Habitat creation
- Reinstated habitat
- Ponds

Pond buffers

- 50m pond buffer
- 250m pond buffer
- 500m pond buffer

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P02	S8	18/10/2022	DCO Application	CD	HT	BF
P03	S9	30/06/2023	Natural England comments	CD	SM	BF

Client: national highways

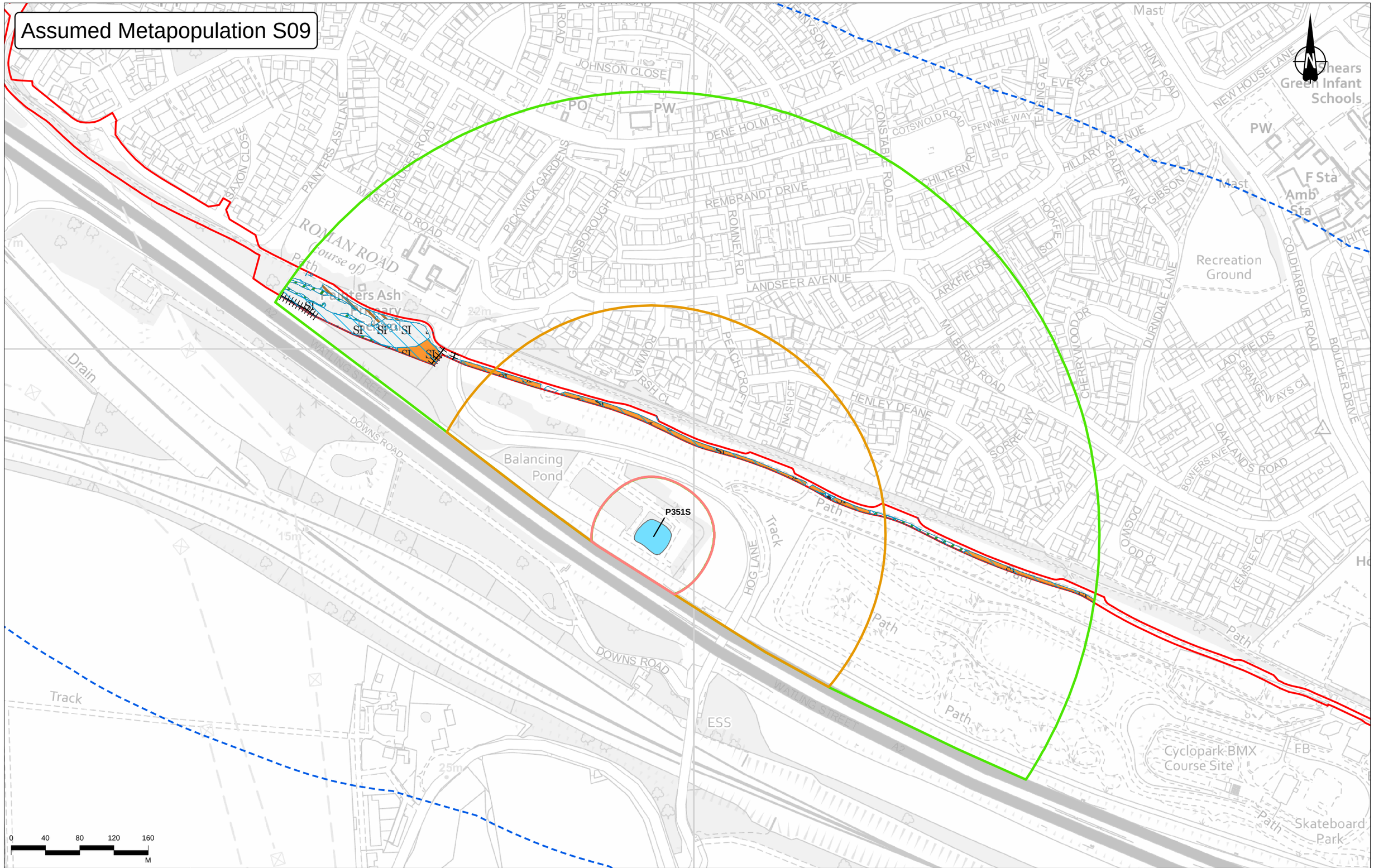
Project: LOWER THAMES CROSSING

Status	DCO APPLICATION
Original Size	A3
Revision	P03
Application Document Number	TR010032/APP/6.3
Scale	1:4,000

Drawing Title: Figure E3.1 - Habitat Measure Map Assumed Metapopulation S08

Drawing Number: HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60035

Assumed Metapopulation S09



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Legend

- Order Limits
- GCN Survey Area
- Reinstated habitat
- Ponds

Pond buffers

- 50m pond buffer
- 250m pond buffer
- 500m pond buffer

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P02	S8	18/10/2022	DCO Application	CD	HT	BF
P03	S9	30/06/2023	Natural England comments	CD	SM	BF

Client: national highways

Project: LOWER THAMES CROSSING

Status: DCO APPLICATION | Original Size: A3 | Revision: P03

Application Document Number: TR010032/APP/6.3 | Scale: 1:4,000

Drawing Title: Figure E3.1 - Habitat Measure Map Assumed Metapopulation S09

Drawing Number: HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60035

Metapopulation S10

P350S
P398S
P294S
P501S
P502S
P504S
P505S
P503S
P483S
P385S
P383S

0 90 180 270 360 M

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Legend

- Order Limits
- GCN Survey Area
- Habitat creation
- Reinstated habitat
- Ponds
- Ponds
- **Pond buffers**
- 50m pond buffer
- 250m pond buffer
- 500m pond buffer

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P02	S8	18/10/2022	DCO Application	CD	HT	BF
P03	S9	30/06/2023	Natural England comments	CD	SM	BF

Client: national highways

Project: LOWER THAMES CROSSING

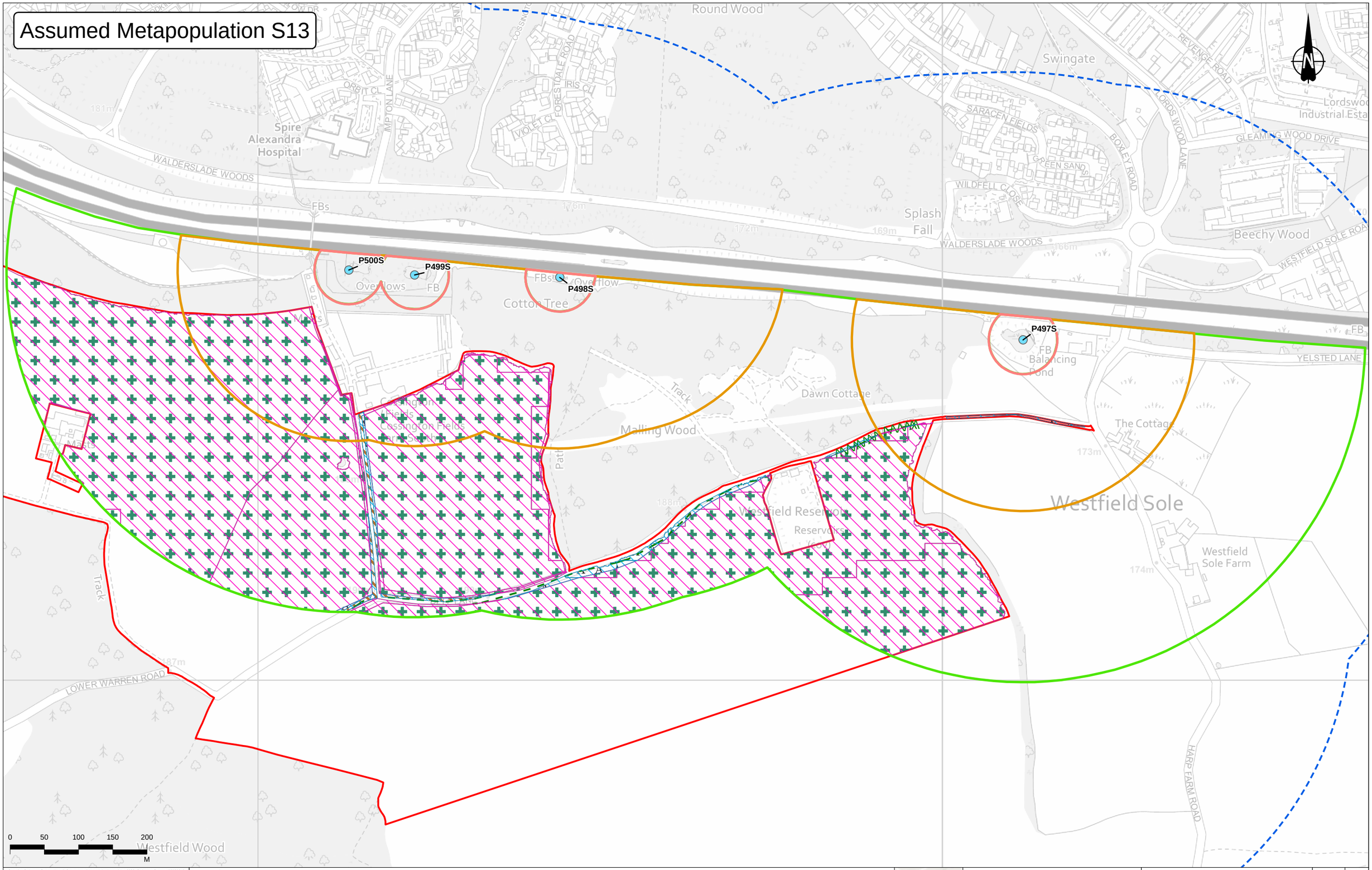
Status: DCO APPLICATION | Original Size: A3 | Revision: P03

Application Document Number: TR010032/APP/6.3 | Scale: 1:8,000

Drawing Title: Figure E3.1 - Habitat Measure Map Metapopulation S10

Drawing Number: HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60035

Assumed Metapopulation S13



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Legend

- Order Limits
- GCN Survey Area
- Habitat creation
- Reinstated habitat
- Ponds

Pond buffers

- 50m pond buffer
- 250m pond buffer
- 500m pond buffer

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P02	S8	18/10/2022	DCO Application	CD	HT	BF
P03	S9	30/06/2023	Natural England comments	CD	SM	BF

Client: national highways

Project: LOWER THAMES CROSSING

Status: DCO APPLICATION

Original Size: A3

Revision: P03

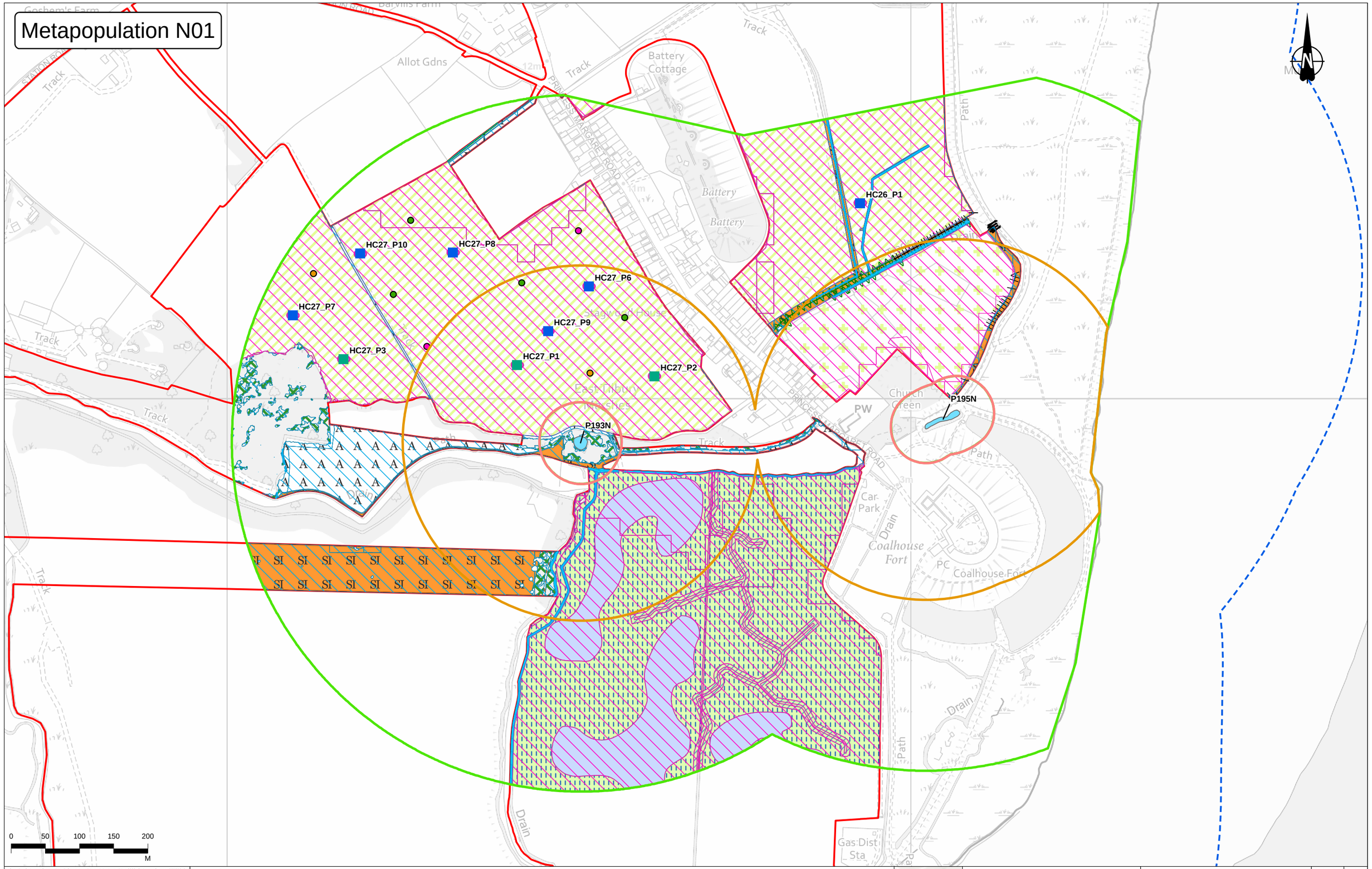
Application Document Number: TR010032/APP/6.3

Scale: 1:5,000

Drawing Title: Figure E3.1 - Habitat Measure Map Assumed Metapopulation S13

Drawing Number: HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60035

Metapopulation N01



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Legend

- Order Limits
- GCN Survey Area
- Habitat creation
- Reinstated habitat
- Ponds

Pond buffers

- 50m pond buffer
- 250m pond buffer
- 500m pond buffer

Mitigation

- GCN pond
- Non GCN pond
- Large hibernacula
- Refugia

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P02	S8	18/10/2022	DCO Application	CD	HT	BF
P03	S9	30/06/2023	Natural England comments	CD	SM	BF

Client: national highways

Project: LOWER THAMES CROSSING

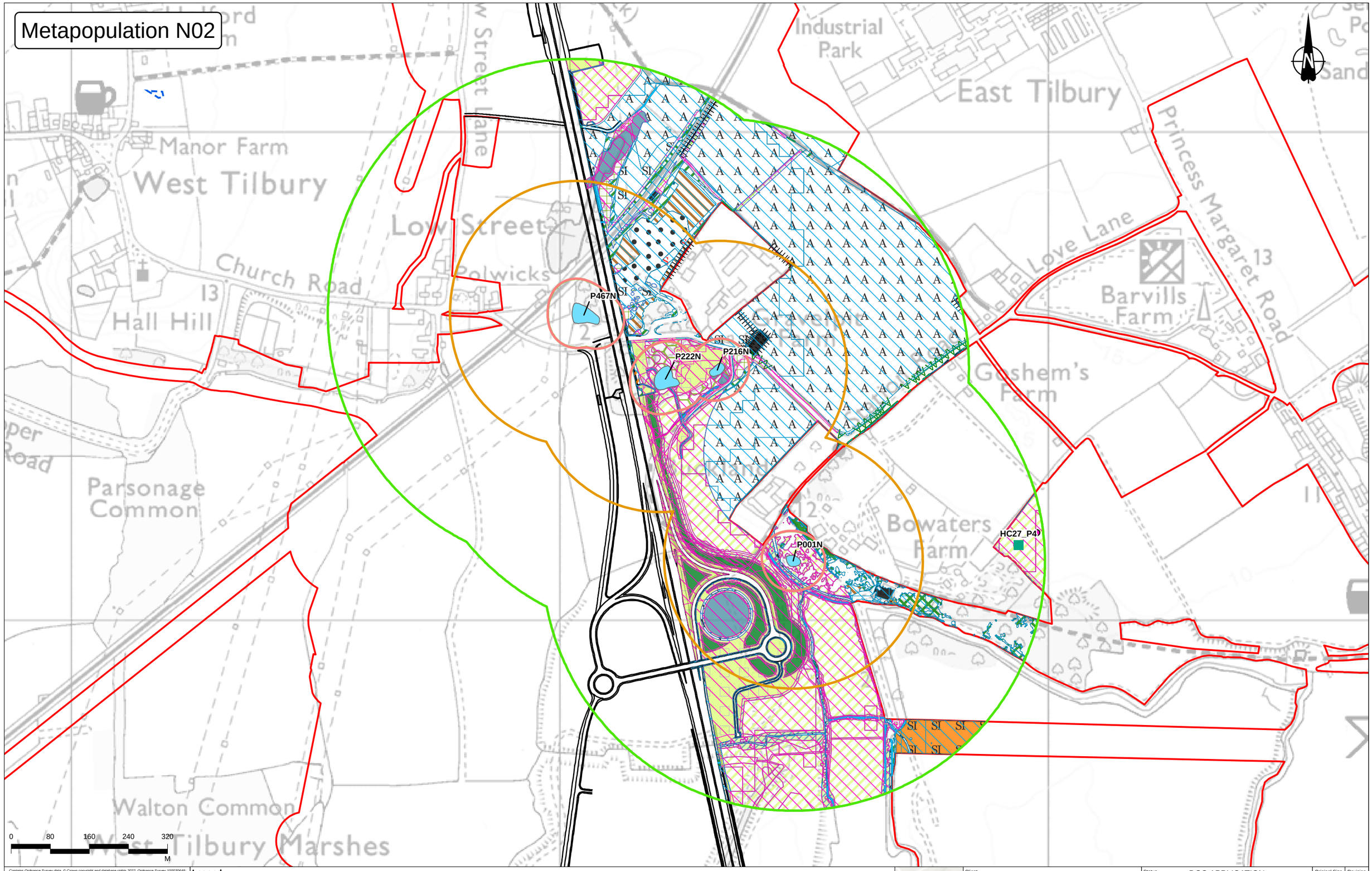
Status: DCO APPLICATION | Original Size: A3 | Revision: P03

Application Document Number: TR010032/APP/6.3 | Scale: 1:5,000

Drawing Title: Figure E3.1 - Habitat Measure Map Metapopulation N01

Drawing Number: HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60035

Metapopulation N02



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Legend

- Order Limits
- Route alignment
- GCN Survey Area
- Habitat creation
- Reinstated habitat
- Ponds

Pond buffers

- 50m pond buffer
- 250m pond buffer
- 500m pond buffer

Mitigation

- GCN pond
- Small hibernacula

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P02	S8	18/10/2022	DCO Application	CD	HT	BF
P03	S9	30/06/2023	Natural England comments	CD	SM	BF

Client: national highways

Project: LOWER THAMES CROSSING

Status: DCO APPLICATION

Original Size: A3

Revision: P03

Application Document Number: TR010032/APP/6.3

Scale: 1:7,000

Drawing Title: Figure E3.1 - Habitat Measure Map Metapopulation N02

Drawing Number: HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60035

Metapopulation N04

P411N
P051N
P023N
P307N
P135N

0 70 140 210 280
M

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Legend

- Order Limits
- Route alignment
- GCN Survey Area
- Habitat creation
- Reinstated habitat
- Ponds

Pond buffers

- 50m pond buffer
- 250m pond buffer
- 500m pond buffer

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P02	S8	18/10/2022	DCO Application	CD	HT	BF
P03	S9	30/06/2023	Natural England comments	CD	SM	BF

Client: national highways

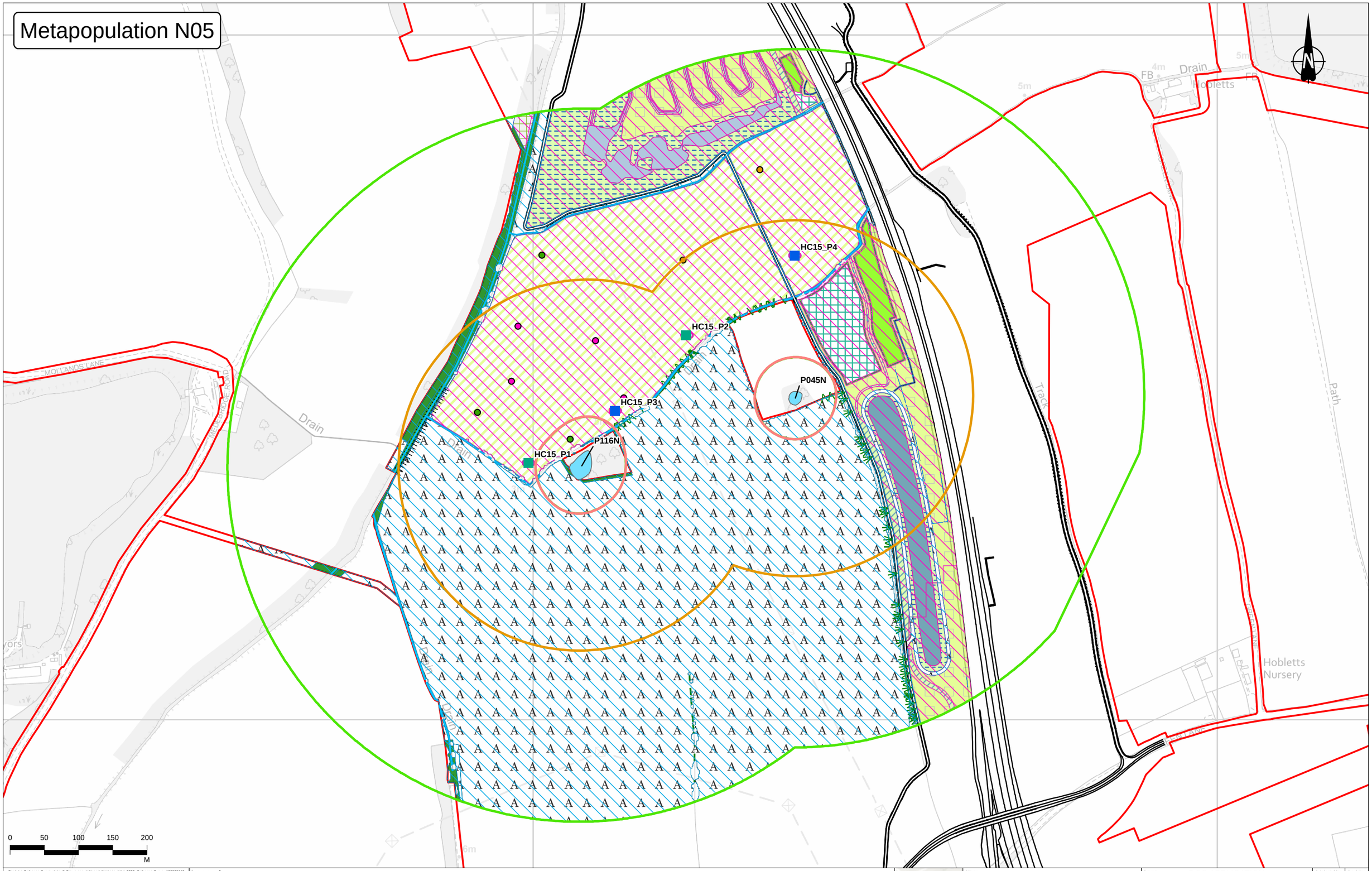
Project: LOWER THAMES CROSSING

Status: DCO APPLICATION
Original Size: A3
Revision: P03
Application Document Number: TR010032/APP/6.3
Scale: 1:6,000

Drawing Title: Figure E3.1 - Habitat Measure Map Metapopulation N04

Drawing Number: HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60035

Metapopulation N05



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Legend

- Order Limits
- Route alignment
- GCN Survey Area
- Habitat creation
- Reinstated habitat
- Ponds

Pond buffers

- 50m pond buffer
- 250m pond buffer
- 500m pond buffer

Mitigation

- GCN pond
- Non GCN pond
- Large hibernacula
- Refugia

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P02	S8	18/10/2022	DCO Application	CD	HT	BF
P03	S9	30/06/2023	Natural England comments	CD	SM	BF

Client: national highways

Project: LOWER THAMES CROSSING

Status: DCO APPLICATION

Original Size: A3

Revision: P03

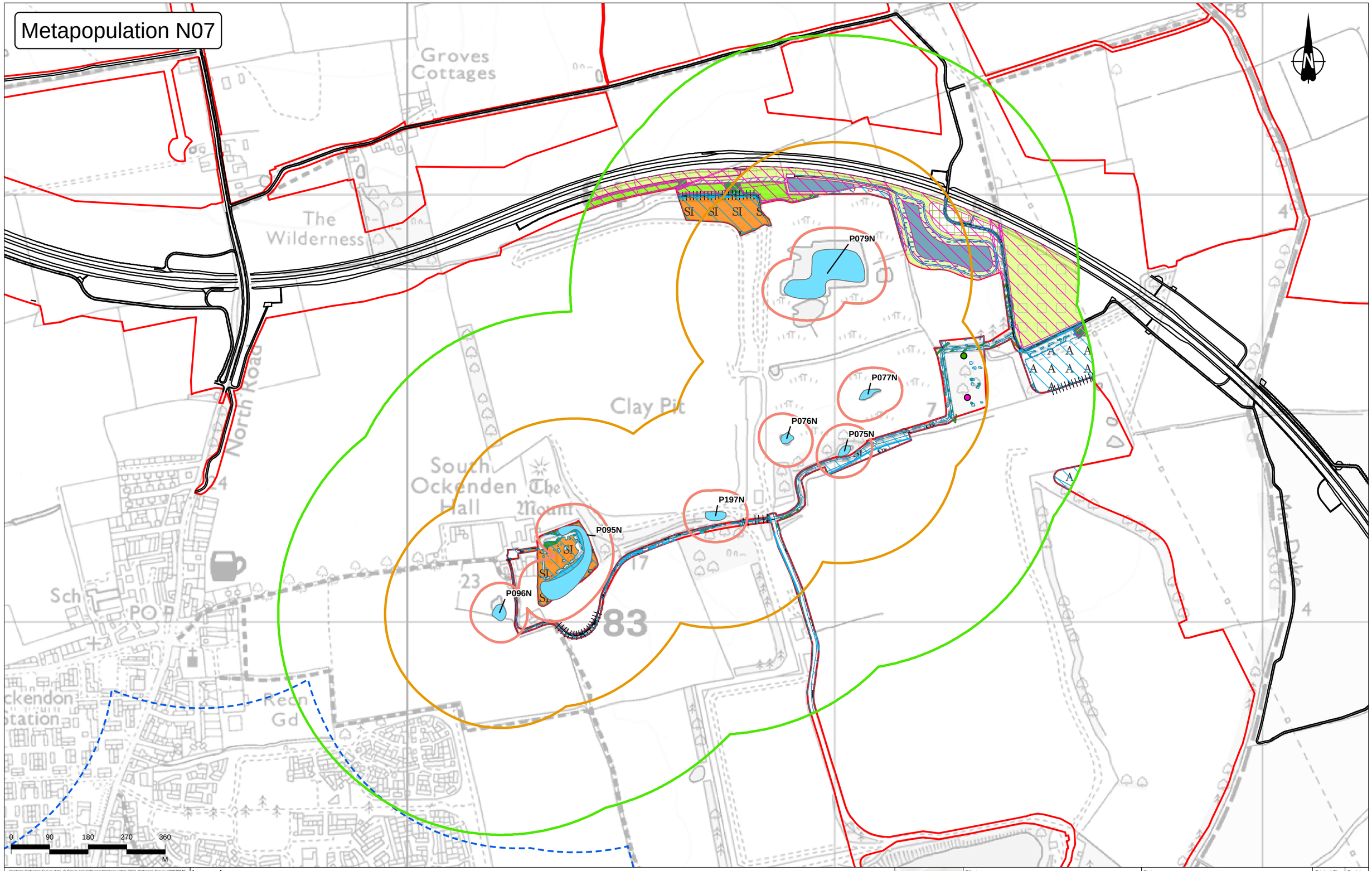
Application Document Number: TR010032/APP/6.3

Scale: 1:5,000

Drawing Title: Figure E3.1 - Habitat Measure Map Metapopulation N05

Drawing Number: HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60035

Metapopulation N07



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Legend

- Order Limits
- Route alignment
- GCN Survey Area
- Habitat creation
- Reinstated habitat
- Ponds

Pond buffers

- 50m pond buffer
- 250m pond buffer
- 500m pond buffer

Mitigation

- Refugia
- Small hibernacula

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P02	S8	18/10/2022	DCO Application	CD	HT	BF
P03	S9	30/06/2023	Natural England comments	CD	SM	BF

Client: national highways

Project: LOWER THAMES CROSSING

Status	DCO APPLICATION	Original Size A3	Revision P03
Application Document Number	TR010032/APP/6.3	Scale 1:8,000	

Drawing Title: Figure E3.1 - Habitat Measure Map Metapopulation N07

Drawing Number: HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60035

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

- Order Limits
- GCN Survey Area
- Habitat creation
- Reinstated habitat
- Ponds

Pond buffers

- 50m pond buffer
- 250m pond buffer
- 500m pond buffer

Mitigation

- Refugia
- Small hibernacula

Client: national highways

Project: LOWER THAMES CROSSING

Status: DCO APPLICATION

Original Size: A3

Revision: P03

Application Document Number: TR010032/APP/6.3

Scale: 1:5,000

Drawing Title: Figure E3.1 - Habitat Measure Map
Metapopulation N09

Drawing Number: HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60035

Metapopulation N10

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Legend

- Order Limits
- Route alignment
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- Habitat creation
- Reinstated habitat
- Ponds

Pond buffers

- 50m pond buffer
- 250m pond buffer
- 500m pond buffer

Mitigation

- Non GCN pond
- Refugia
- Small hibernacula

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P02	S8	18/10/2022	DCO Application	CD	HT	BF
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Client: national highways

Project: LOWER THAMES CROSSING

Status: DCO APPLICATION

Original Size: A3

Revision: P03

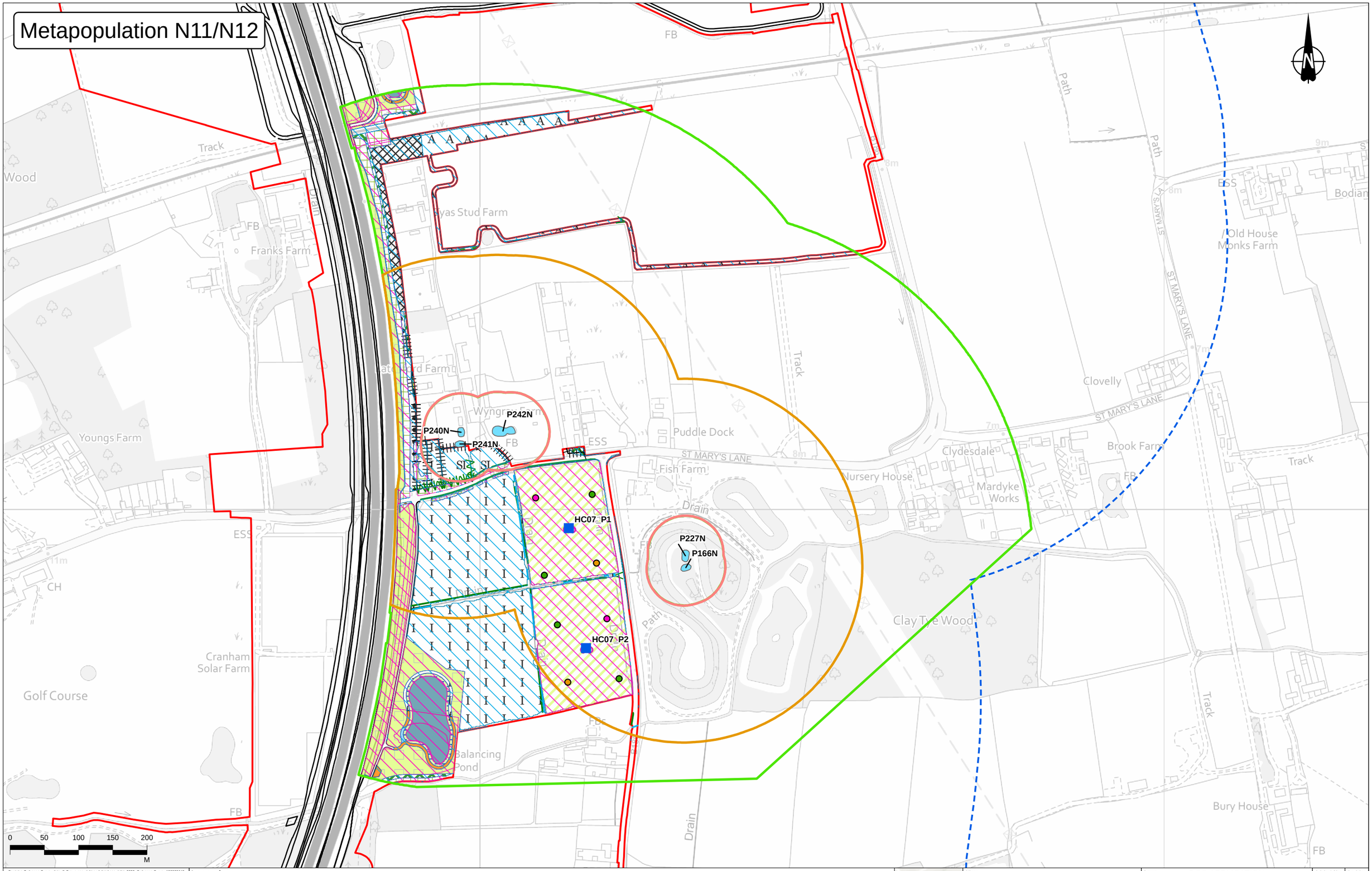
Application Document Number: TR010032/APP/6.3

Scale: 1:5,000

Drawing Title: Figure E3.1 - Habitat Measure Map Metapopulation N10

Drawing Number: HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60035

Metapopulation N11/N12



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Legend

- Order Limits
- Route alignment
- GCN Survey Area
- Habitat creation
- Reinstated habitat
- Ponds

Pond buffers

- 50m pond buffer
- 250m pond buffer
- 500m pond buffer

Mitigation

- Non GCN pond
- Large hibernacula
- Refugia
- Small hibernacula

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P02	S8	18/10/2022	DCO Application	CD	HT	BF
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Client: national highways

Project: LOWER THAMES CROSSING

Status: DCO APPLICATION | Original Size: A3 | Revision: P03

Application Document Number: TR010032/APP/6.3 | Scale: 1:5,000

Drawing Title: Figure E3.1 - Habitat Measure Map Metapopulation N11/N12

Drawing Number: HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60035

Metapopulation N13

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Legend

- Order Limits
- Route alignment
- GCN Survey Area
- Habitat creation
- Reinstated habitat
- Ponds

Pond buffers

- 50m pond buffer
- 250m pond buffer
- 500m pond buffer

Mitigation

- Non GCN pond
- Large hibernacula
- Refugia

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P02	S8	18/10/2022	DCO Application	CD	HT	BF
P03	S9	30/06/2023	Natural England comments	CD	SM	BF

Client: national highways

Project: LOWER THAMES CROSSING

Status: DCO APPLICATION

Original Size: A3

Revision: P03

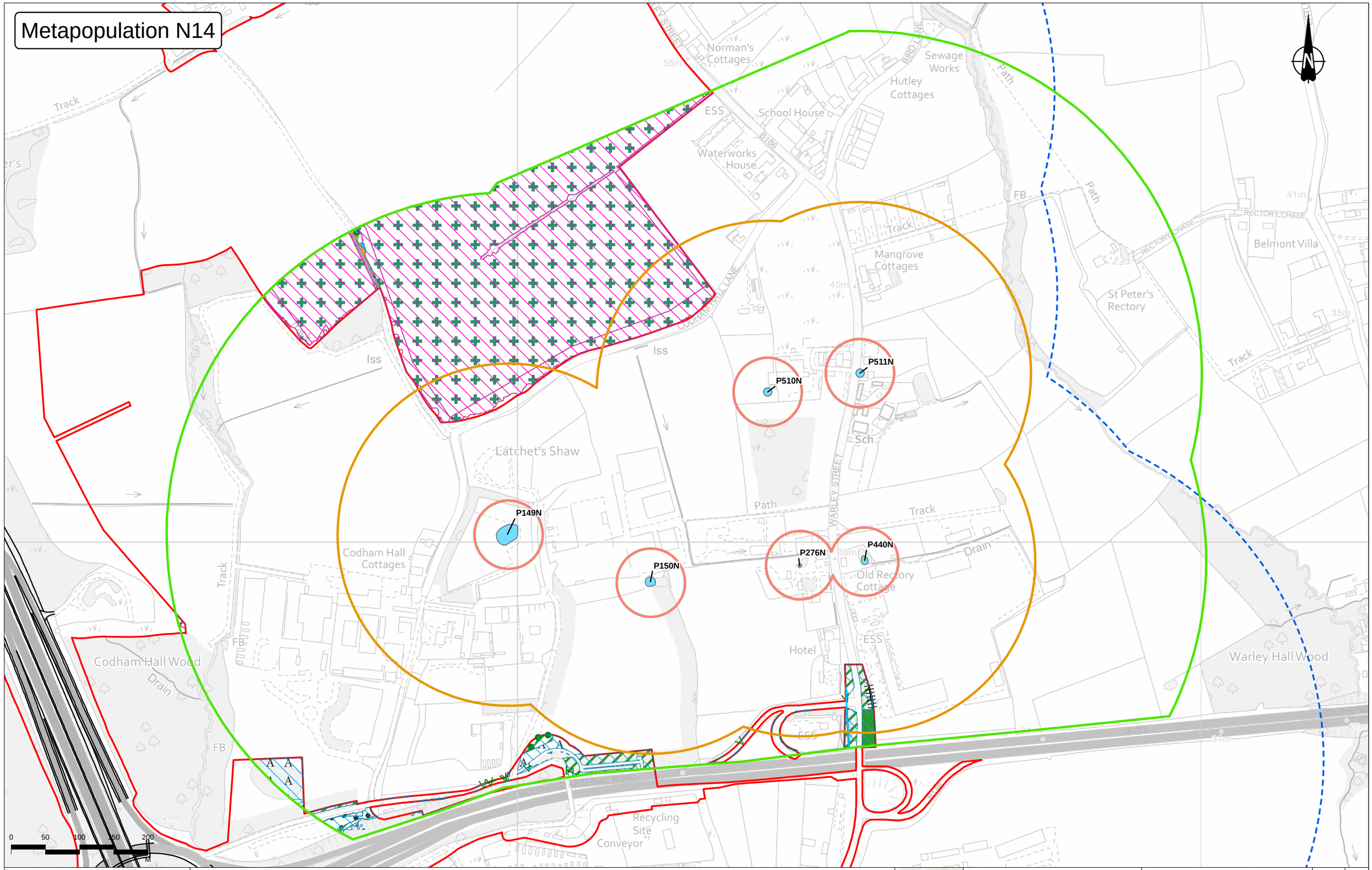
Application Document Number: TR010032/APP/6.3

Scale: 1:6,000

Drawing Title: Figure E3.1 - Habitat Measure Map Metapopulation N13

Drawing Number: HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60035

Metapopulation N14



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Legend

- Order Limits
- GCN Survey Area
- Habitat creation
- Reinstated habitat
- Ponds
- Ponds

Pond buffers

- 50m pond buffer
- 250m pond buffer
- 500m pond buffer

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P02	S8	18/10/2022	DCO Application	CD	HT	BF
P03	S9	30/06/2023	Natural England comments	CD	SM	BF

Client: national highways

Project: LOWER THAMES CROSSING

Status: DCO APPLICATION

Original Size: A3

Revision: P03

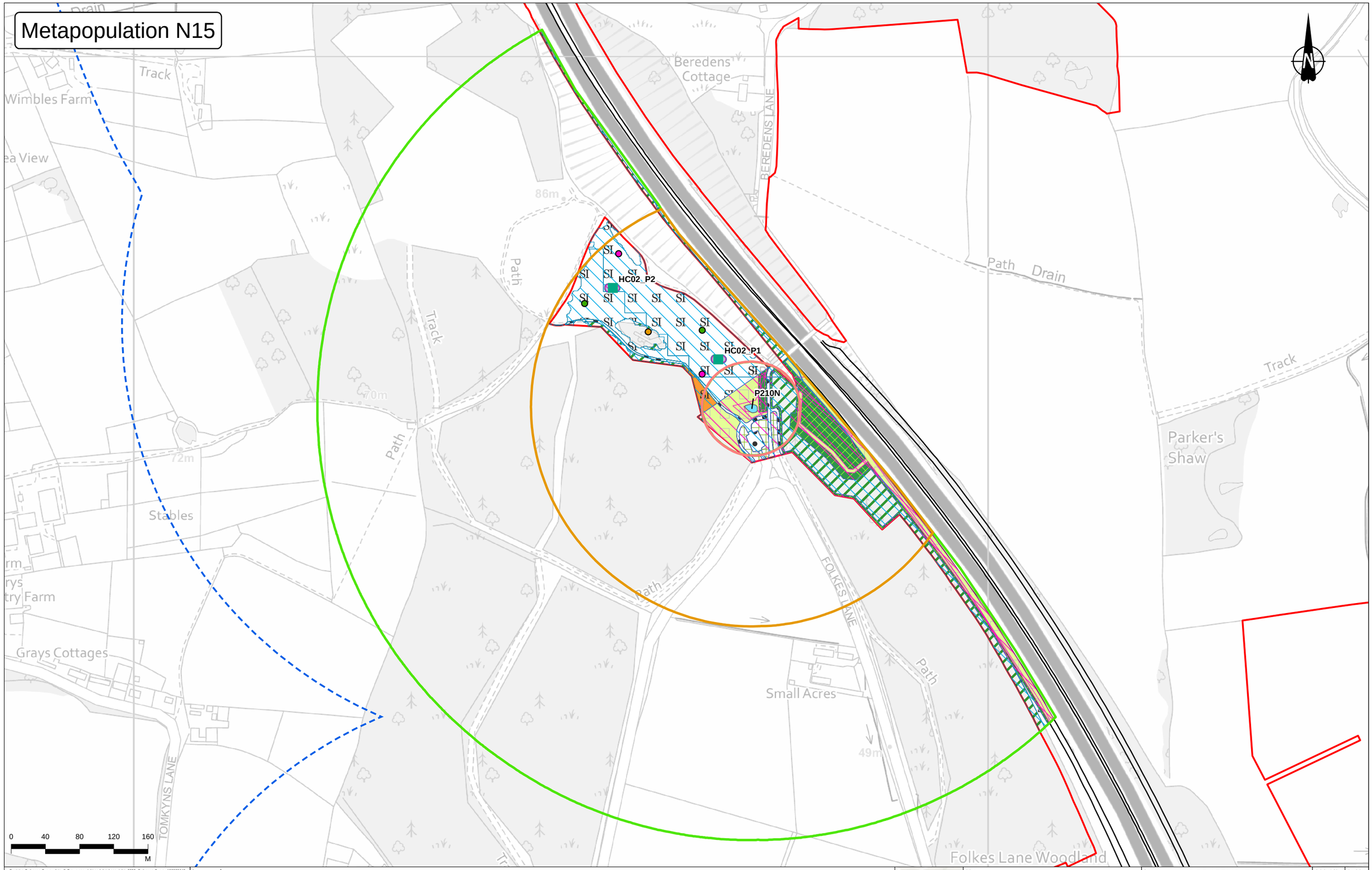
Application Document Number: TR010032/APP/6.3

Scale: 1:5,000

Drawing Title: Figure E3.1 - Habitat Measure Map Metapopulation N14

Drawing Number: HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60035

Metapopulation N15



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Legend

- Order Limits
- Route alignment
- GCN Survey Area
- Habitat creation
- Reinstated habitat
- Ponds

Pond buffers

- 50m pond buffer
- 250m pond buffer
- 500m pond buffer

Mitigation

- GCN pond
- Large hibernacula
- Refugia
- Small hibernacula

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P02	S8	18/10/2022	DCO Application	CD	HT	BF
P03	S9	30/06/2023	Natural England comments	CD	SM	BF

Client: national highways

Project: LOWER THAMES CROSSING

Status: DCO APPLICATION

Original Size: A3

Revision: P03

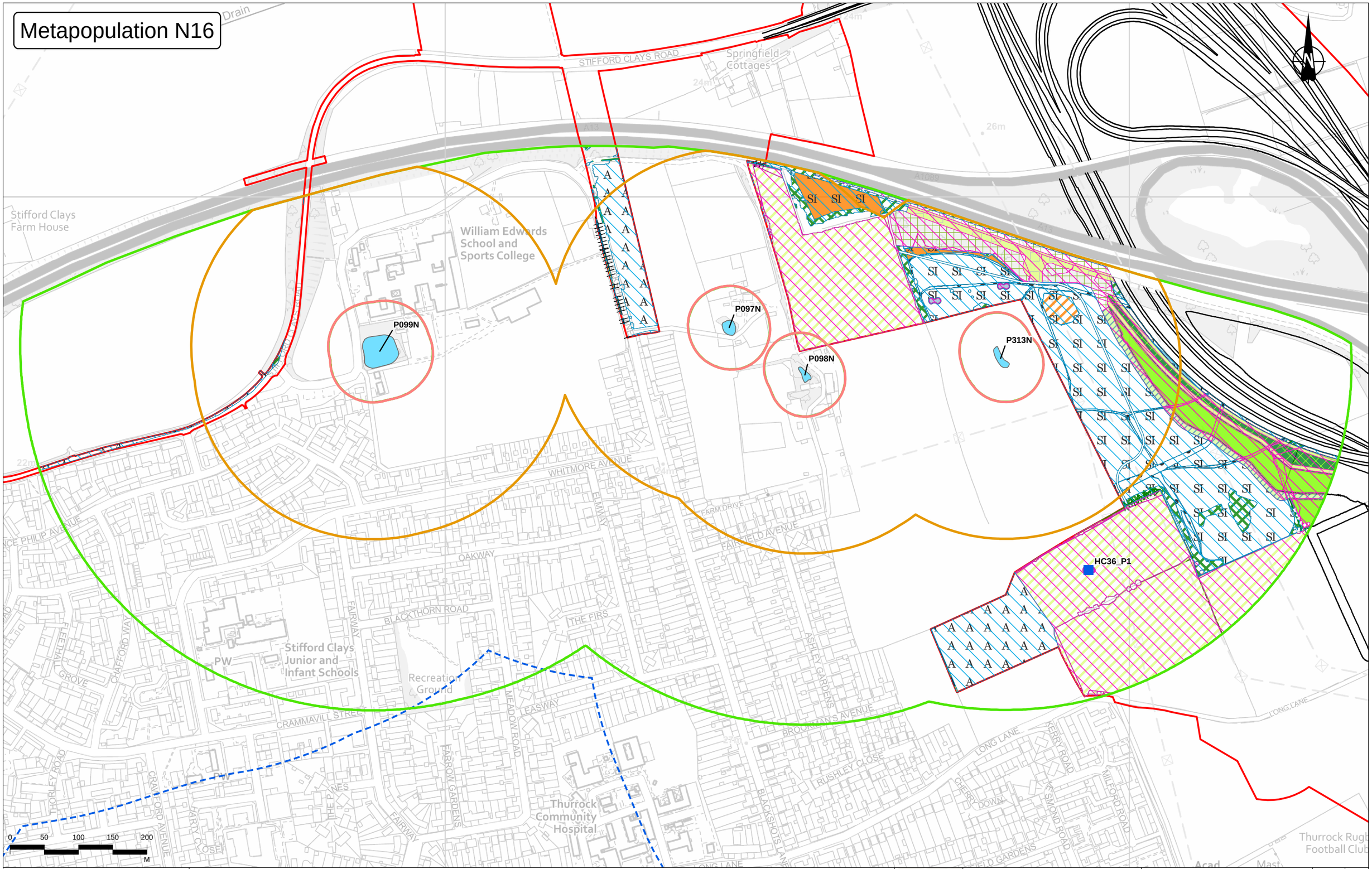
Application Document Number: TR010032/APP/6.3

Scale: 1:4,000

Drawing Title: Figure E3.1 - Habitat Measure Map Metapopulation N15

Drawing Number: HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60035

Metapopulation N16



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Legend

- Order Limits
- Route alignment
- GCN Survey Area
- Habitat creation
- Reinstated habitat
- Ponds

Pond buffers

- 50m pond buffer
- 250m pond buffer
- 500m pond buffer

Mitigation

- Non GCN pond

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P02	S8	18/10/2022	DCO Application	CD	HT	BF
P03	S9	30/06/2023	Natural England comments	CD	SM	BF

Client: national highways

Project: LOWER THAMES CROSSING

Status: DCO APPLICATION

Original Size: A3

Revision: P03

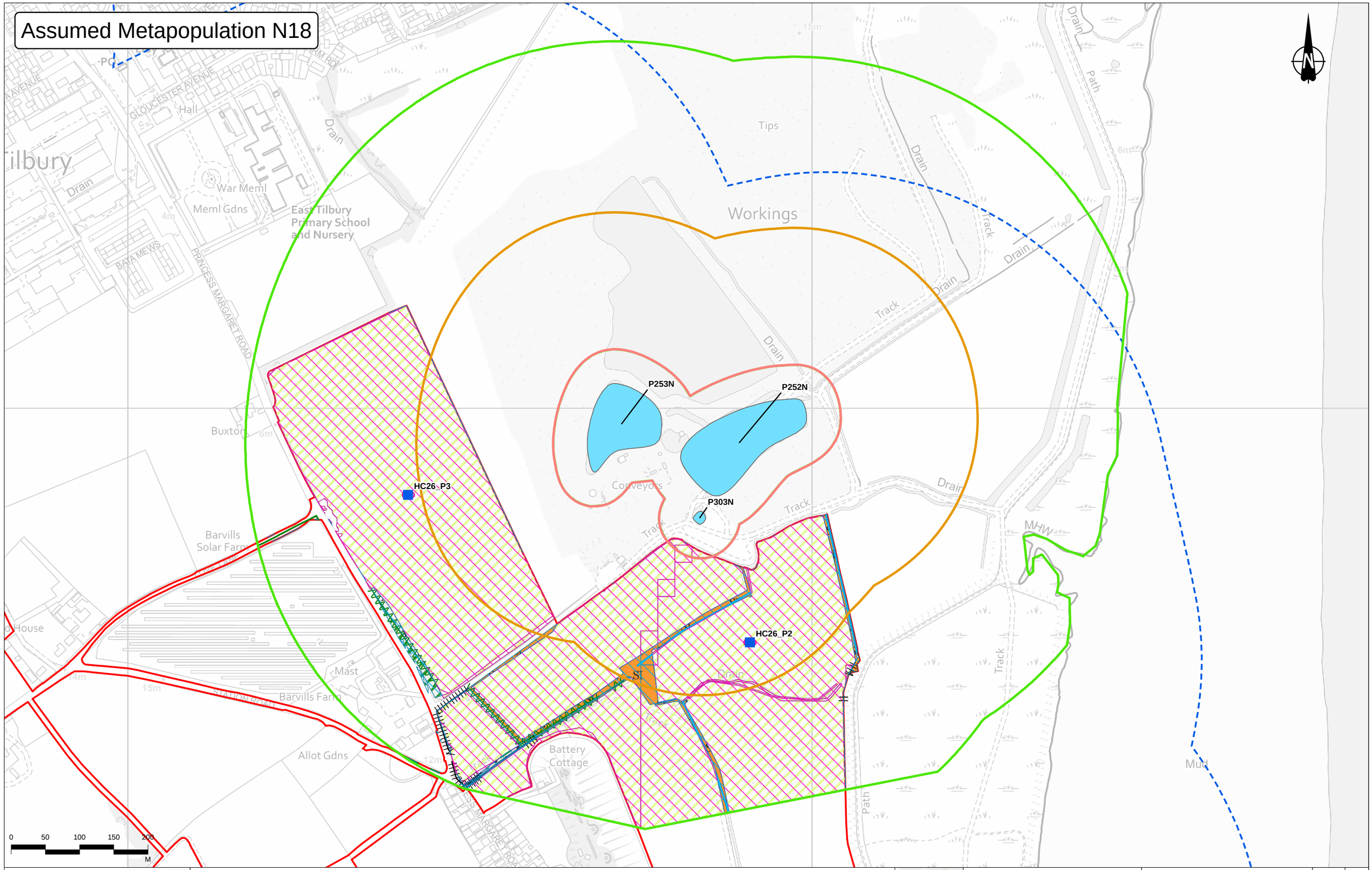
Application Document Number: TR010032/APP/6.3

Scale: 1:5,000

Drawing Title: Figure E3.1 - Habitat Measure Map Metapopulation N16

Drawing Number: HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60035

Assumed Metapopulation N18



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Legend

- Order Limits
- GCN Survey Area
- Habitat creation
- Reinstated habitat
- Ponds

Pond buffers

- 50m pond buffer
- 250m pond buffer
- 500m pond buffer

Mitigation

- Non GCN pond

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P02	S8	18/10/2022	DCO Application	CD	HT	BF
P03	S9	30/06/2023	Natural England comments	CD	SM	BF

Client: national highways

Project: LOWER THAMES CROSSING

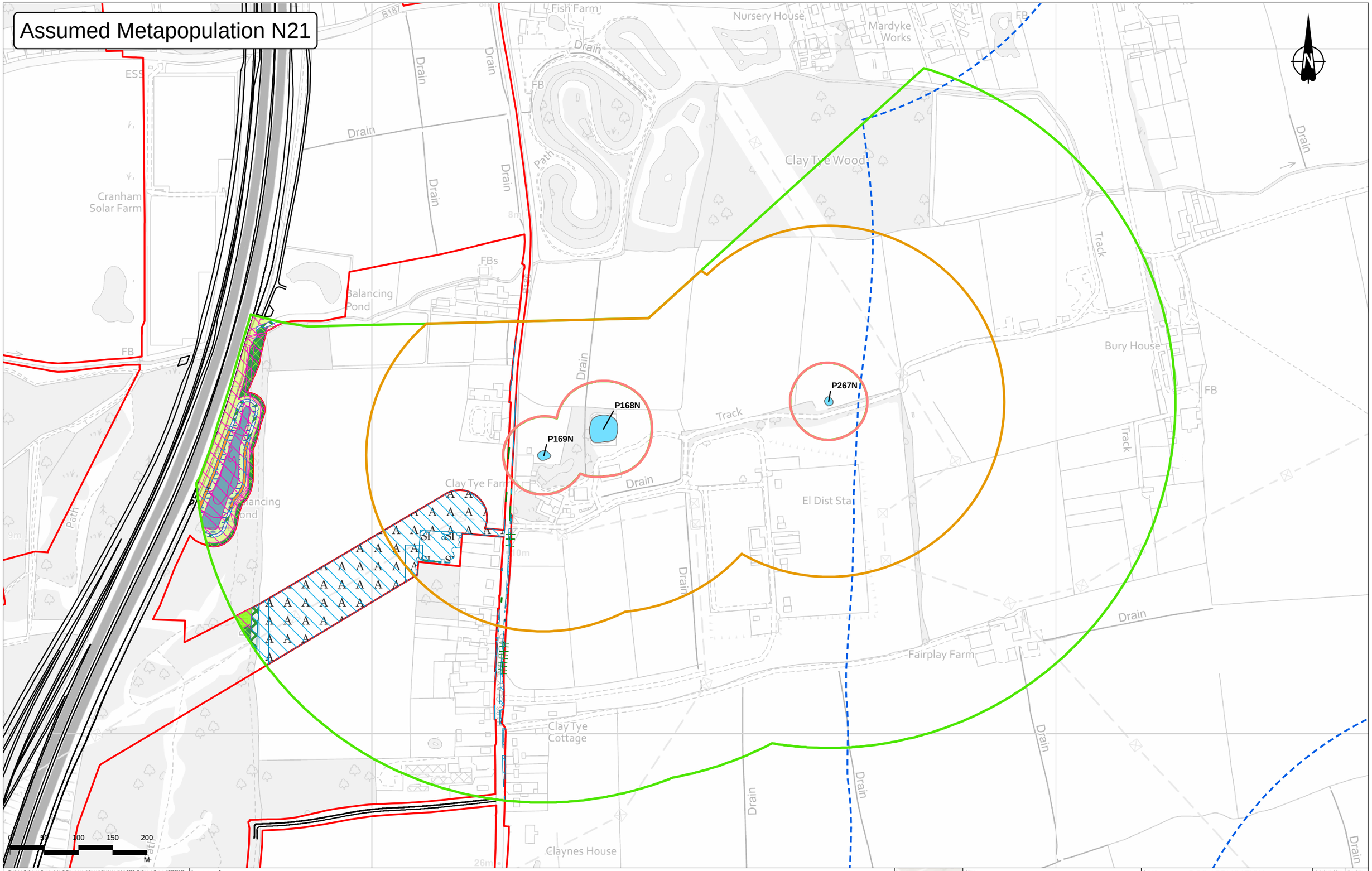
Status: DCO APPLICATION | Original Size: A3 | Revision: P03

Application Document Number: TR010032/APP/6.3 | Scale: 1:5,000

Drawing Title: Figure E3.1 - Habitat Measure Map Assumed Metapopulation N18

Drawing Number: HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60035

Assumed Metapopulation N21



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Legend

- Order Limits
- Route alignment
- GCN Survey Area
- Habitat creation
- Reinstated habitat
- Ponds

Pond buffers

- 50m pond buffer
- 250m pond buffer
- 500m pond buffer

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P02	S8	18/10/2022	DCO Application	CD	HT	BF
P03	S9	30/06/2023	Natural England comments	CD	SM	BF

Client: national highways

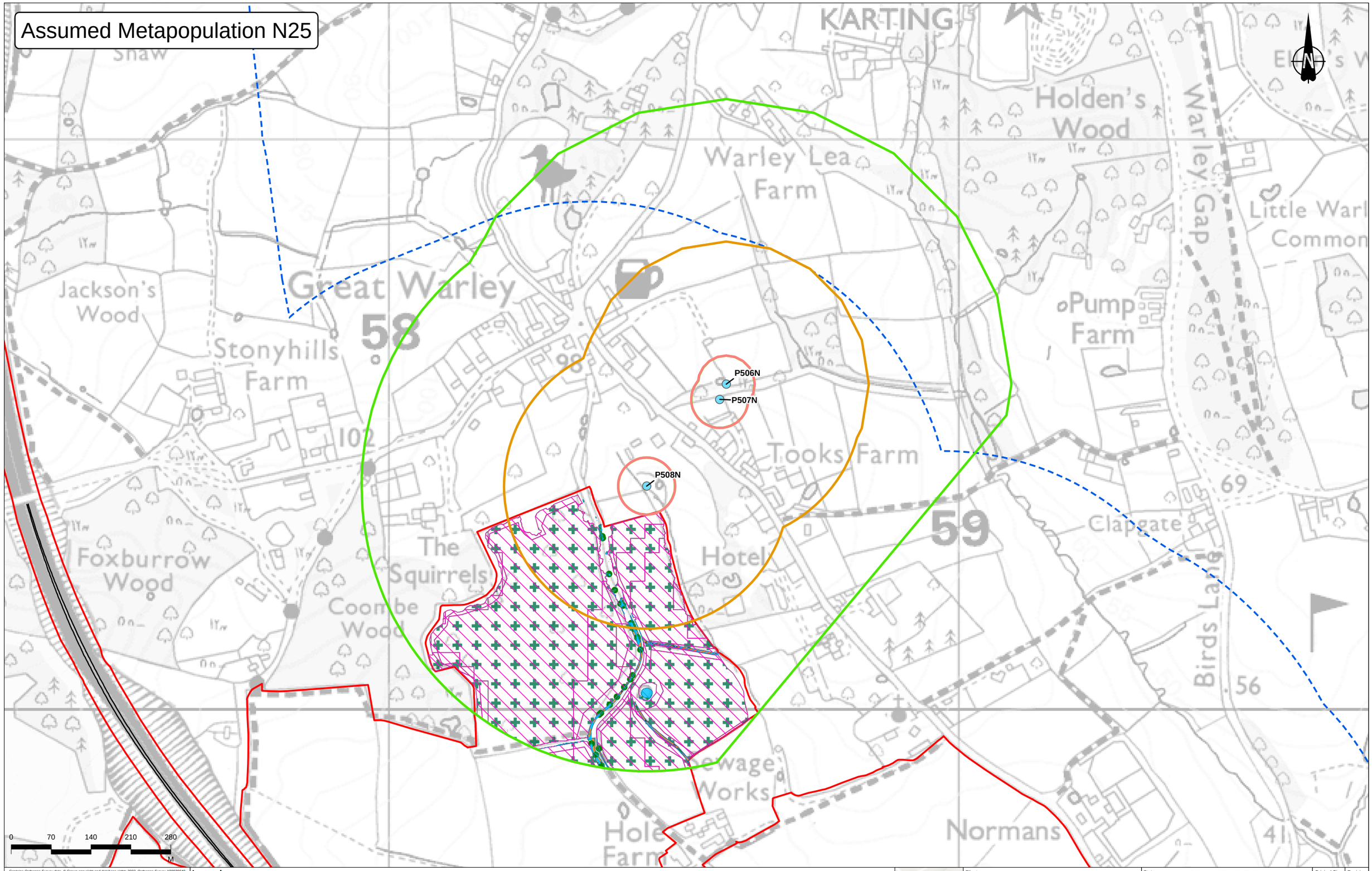
Project: LOWER THAMES CROSSING

Status	DCO APPLICATION
Original Size	A3
Revision	P03
Application Document Number	TR010032/APP/6.3
Scale	1:5,000

Drawing Title: Figure E3.1 - Habitat Measure Map Assumed Metapopulation N21

Drawing Number: HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60035

Assumed Metapopulation N25



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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P02	S8	18/10/2022	DCO Application	CD	HT	BF
P03	S9	30/06/2023	Natural England comments	CD	SM	BF

Legend

- Order Limits
- GCN Survey Area
- Habitat creation
- Reinstated habitat
- Ponds

Pond buffers

- 50m pond buffer
- 250m pond buffer
- 500m pond buffer

Client: national highways

Project: LOWER THAMES CROSSING

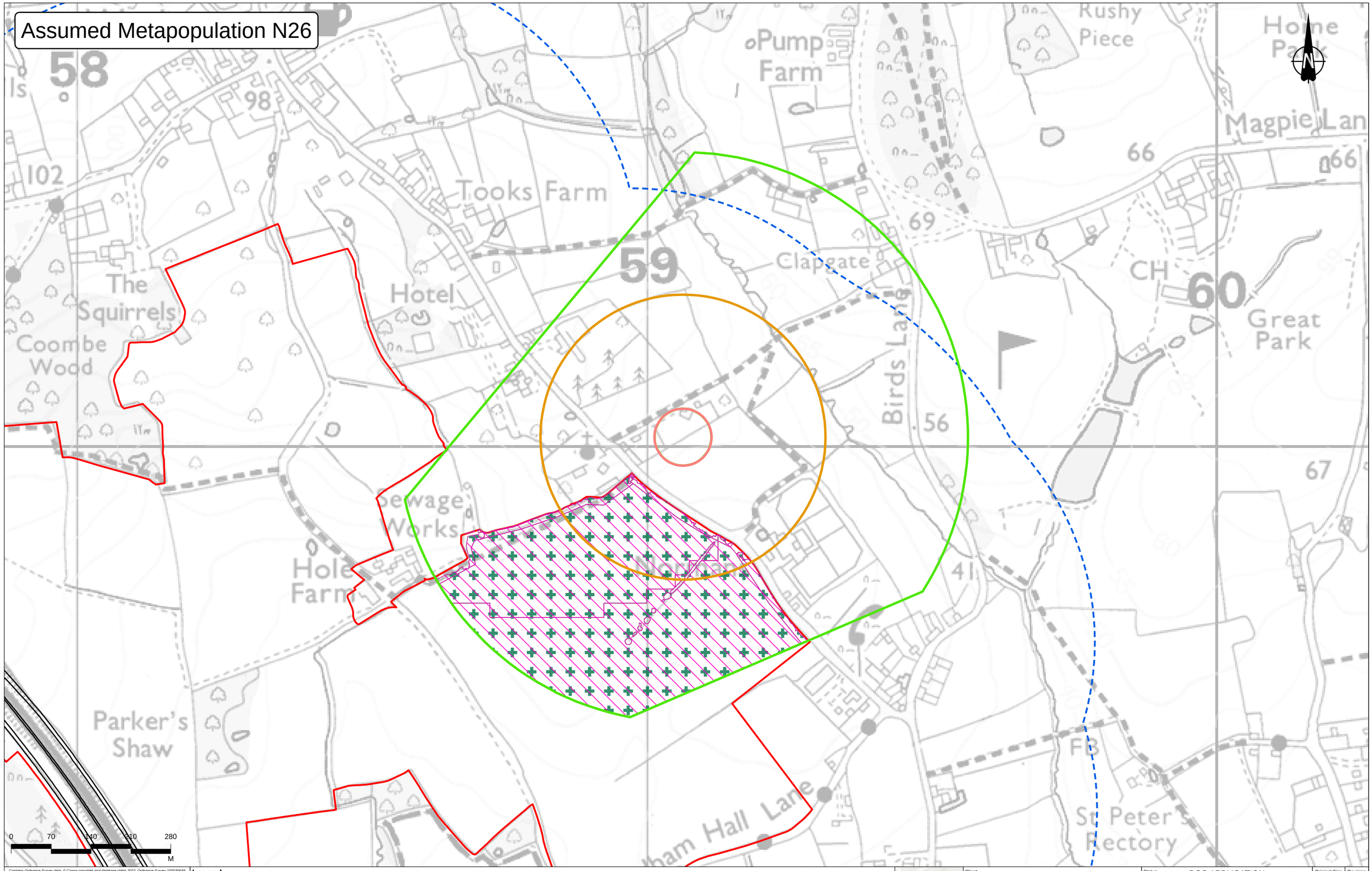
Status: DCO APPLICATION | Original Size: A3 | Revision: P03

Application Document Number: TR010032/APP/6.3 | Scale: 1:6,000

Drawing Title: Figure E3.1 - Habitat Measure Map Assumed Metapopulation N25

Drawing Number: HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60035

Assumed Metapopulation N26



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Legend

- Order Limits
- GCN Survey Area
- Habitat creation
- Reinstated habitat

Pond buffers

- 50m pond buffer
- 250m pond buffer
- 500m pond buffer

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P02	S8	18/10/2022	DCO Application	CD	HT	BF
P03	S9	30/06/2023	Natural England comments	CD	SM	BF

Client: national highways

Project: LOWER THAMES CROSSING

Status: DCO APPLICATION

Original Size: A3

Revision: P03

Application Document Number: TR010032/APP/6.3

Scale: 1:6,000

Drawing Title: Figure E3.1 - Habitat Measure Map Assumed Metapopulation N26

Drawing Number: HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60035

Metapopulation S01

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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P02	S8	27/09/2022	DCO Application	CD	HT	BF
P03	S9	24/05/2023	Natural England comments	CD	SM	BF

Legend

- Order Limits
- Route alignment
- GCN survey area
- Habitat manipulation

Ponds

- Present - Conventional
- Present - eDNA
- Assumed present - Desk Study (No access)

Pond buffers

- 50m pond buffer
- 250m pond buffer
- 500m pond buffer

Client: national highways

Project: LOWER THAMES CROSSING

Status	DCO APPLICATION
Original Size	A3
Revision	P03
Application Document Number	TR010032/APP/6.3
Scale	1:5,000

Drawing Title: Figure E4a - Capture and Exclusion Metapopulation S01

Drawing Number: HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60036

Metapopulation S02

P021S
P040S
P186S
P204S
P184S
P183S
P185S
P220S
P219S
P039S
P249S

0 70 140 210 280 M

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Legend

- Order Limits
- Route alignment
- GCN survey area
- Habitat manipulation

Ponds

- Present - Conventional
- Assumed present - Conventional

Pond buffers

- 50m pond buffer
- 250m pond buffer
- 500m pond buffer

Fencing

- DAF 60 Day
- DAF 90 Day
- OWF
- TAF 60 Day
- TAF 90 Day

Fencing

- Ring 60 day

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P02	S8	27/09/2022	DCO Application	CD	HT	BF
P03	S9	24/05/2023	Natural England comments	CD	SM	BF

Client: national highways

Project: LOWER THAMES CROSSING

Status: DCO APPLICATION
Original Size: A3
Revision: P03
Application Document Number: TR010032/APP/6.3
Scale: 1:6,000

Drawing Title: Figure E4a - Capture and Exclusion Metapopulation S02

Drawing Number: HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60036

Metapopulation S04

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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P02	S8	27/09/2022	DCO Application	CD	HT	BF
P03	S9	24/05/2023	Natural England comments	CD	SM	BF

Legend

- Order Limits
- Route alignment
- GCN survey area
- Habitat manipulation

Pond status, Survey year

- Present - Incidental sighting (2017 & 2018)

Pond buffers

- 50m pond buffer
- 250m pond buffer
- 500m pond buffer

Fencing

- TAF Exclusion only

Client: national highways

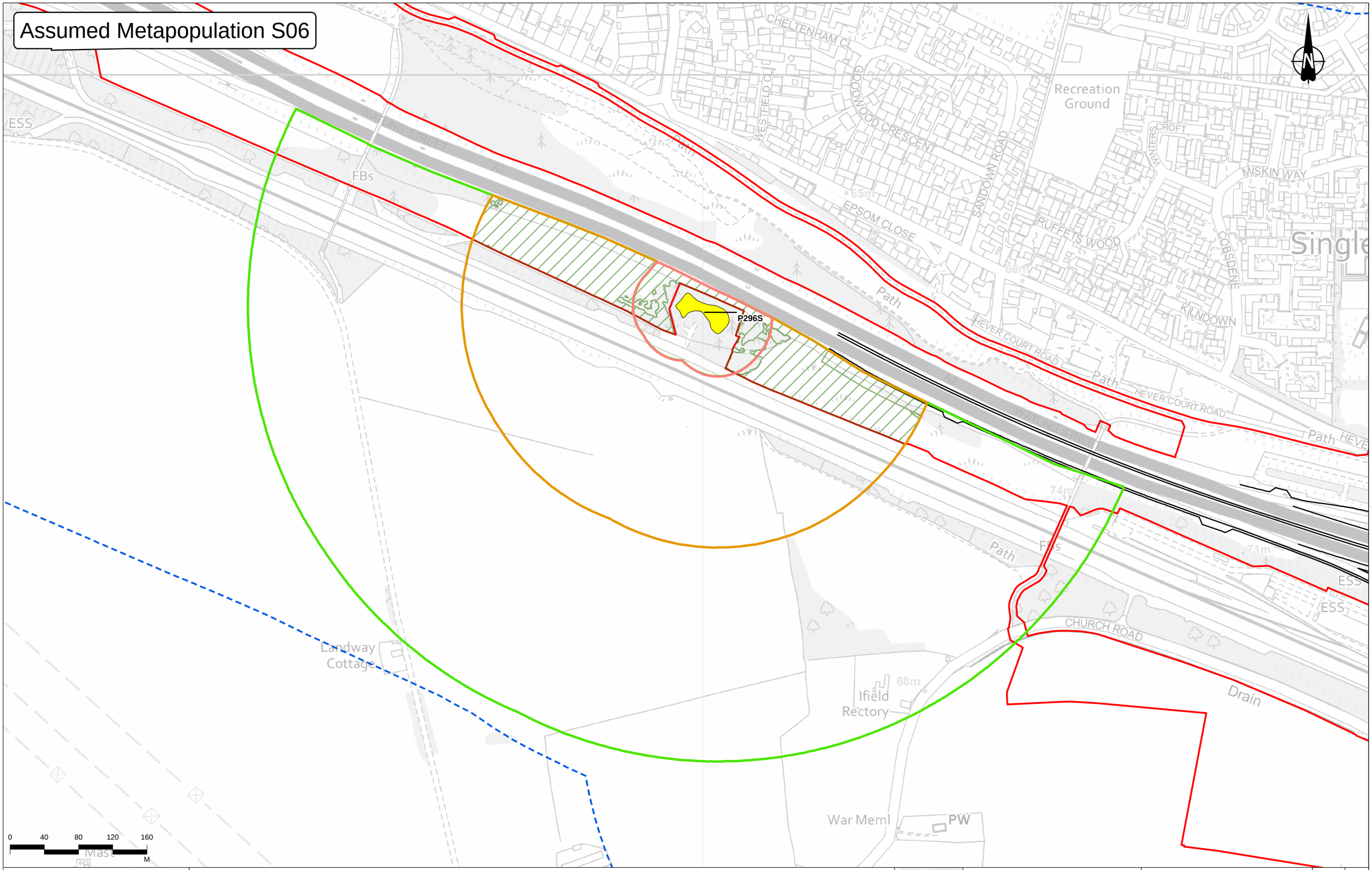
Project: LOWER THAMES CROSSING

Status	DCO APPLICATION
Original Size	A3
Revision	P03
Application Document Number	TR010032/APP/6.3
Scale	1:5,000

Drawing Title: Figure E4a - Capture and Exclusion Metapopulation S04

Drawing Number: HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60036

Assumed Metapopulation S06



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Legend

- Order Limits
- Route alignment
- GCN survey area
- Habitat manipulation

Ponds

- Assumed present - No access

Pond buffers

- 50m pond buffer
- 250m pond buffer
- 500m pond buffer

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P02	S8	27/09/2022	DCO Application	CD	HT	BF
P03	S9	24/05/2023	Natural England comments	CD	SM	BF

Client: national highways

Project: LOWER THAMES CROSSING

Status: DCO APPLICATION

Original Size: A3

Revision: P03

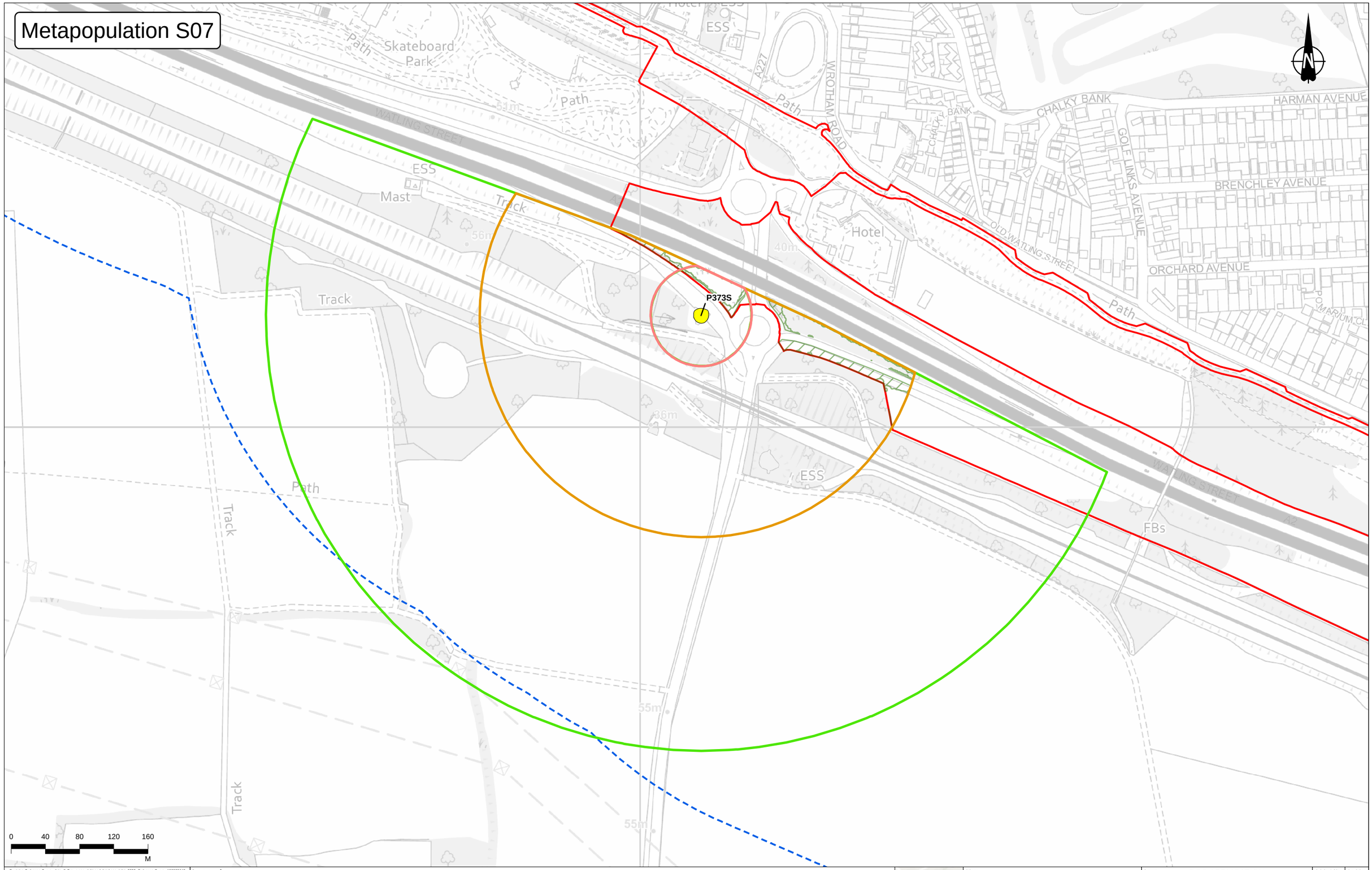
Application Document Number: TR010032/APP/6.3

Scale: 1:4,000

Drawing Title: Figure E4a - Capture and Exclusion Assumed Metapopulation S06

Drawing Number: HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60036

Metapopulation S07



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Legend

- Order Limits
- GCN survey area
- Habitat manipulation

Ponds

- Assumed present - No access

Pond buffers

- 50m pond buffer
- 250m pond buffer
- 500m pond buffer

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P02	S8	27/09/2022	DCO Application	CD	HT	BF
P03	S9	24/05/2023	Natural England comments	CD	SM	BF

Client: national highways

Project: LOWER THAMES CROSSING

Status: DCO APPLICATION

Original Size: A3

Revision: P03

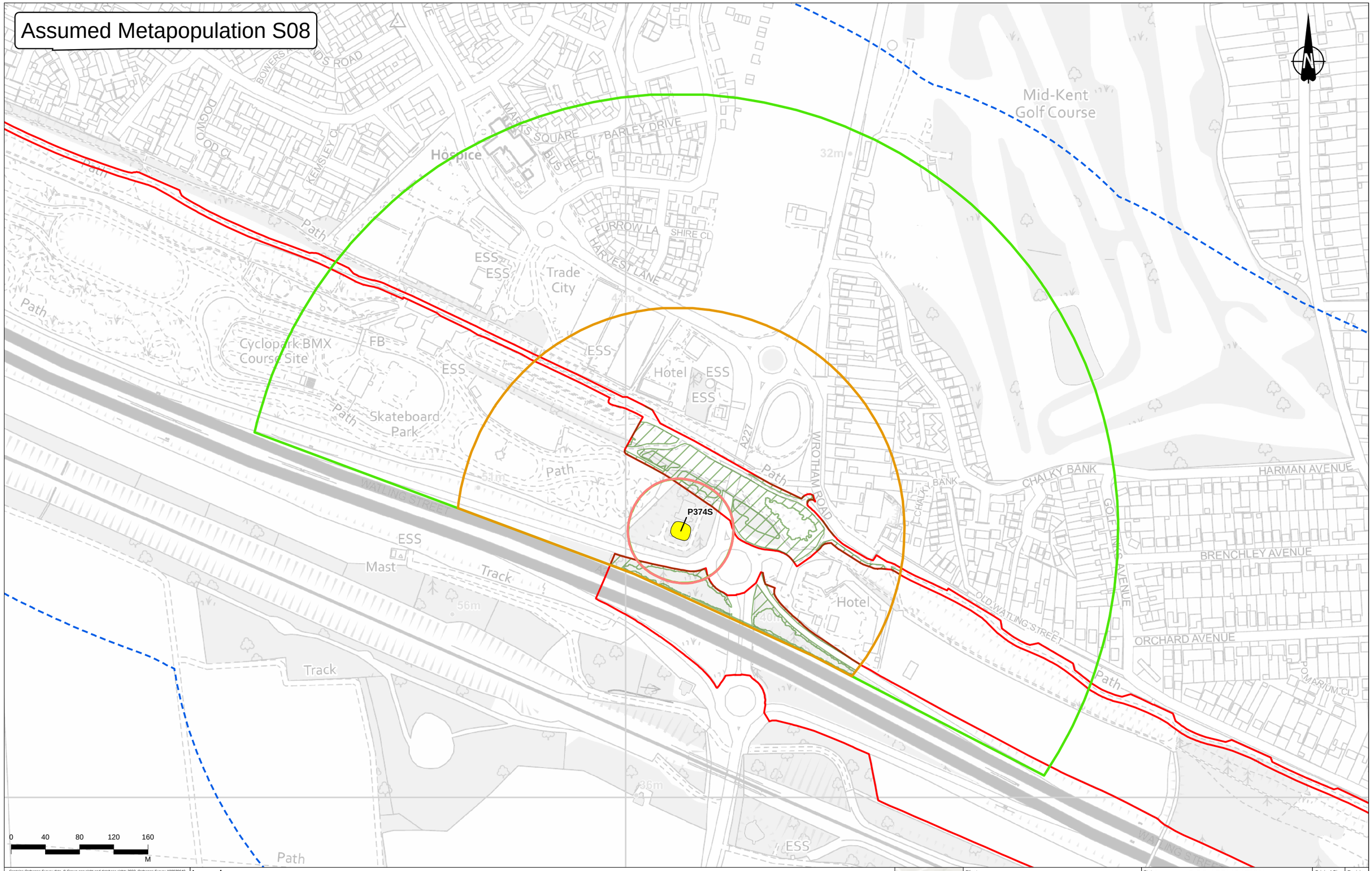
Application Document Number: TR010032/APP/6.3

Scale: 1:4,000

Drawing Title: Figure E4a - Capture and Exclusion Metapopulation S07

Drawing Number: HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60036

Assumed Metapopulation S08



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Legend

- Order Limits
- GCN survey area
- Habitat manipulation
- **Ponds**
  - Assumed present - No access
- **Pond buffers**
  - 50m pond buffer
  - 250m pond buffer
  - 500m pond buffer

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Appr'd
P02	S8	27/09/2022	DCO Application	CD	HT	BF
P03	S9	24/05/2023	Natural England comments	CD	SM	BF

Client: national highways

Project: LOWER THAMES CROSSING

Status: DCO APPLICATION

Original Size: A3

Revision: P03

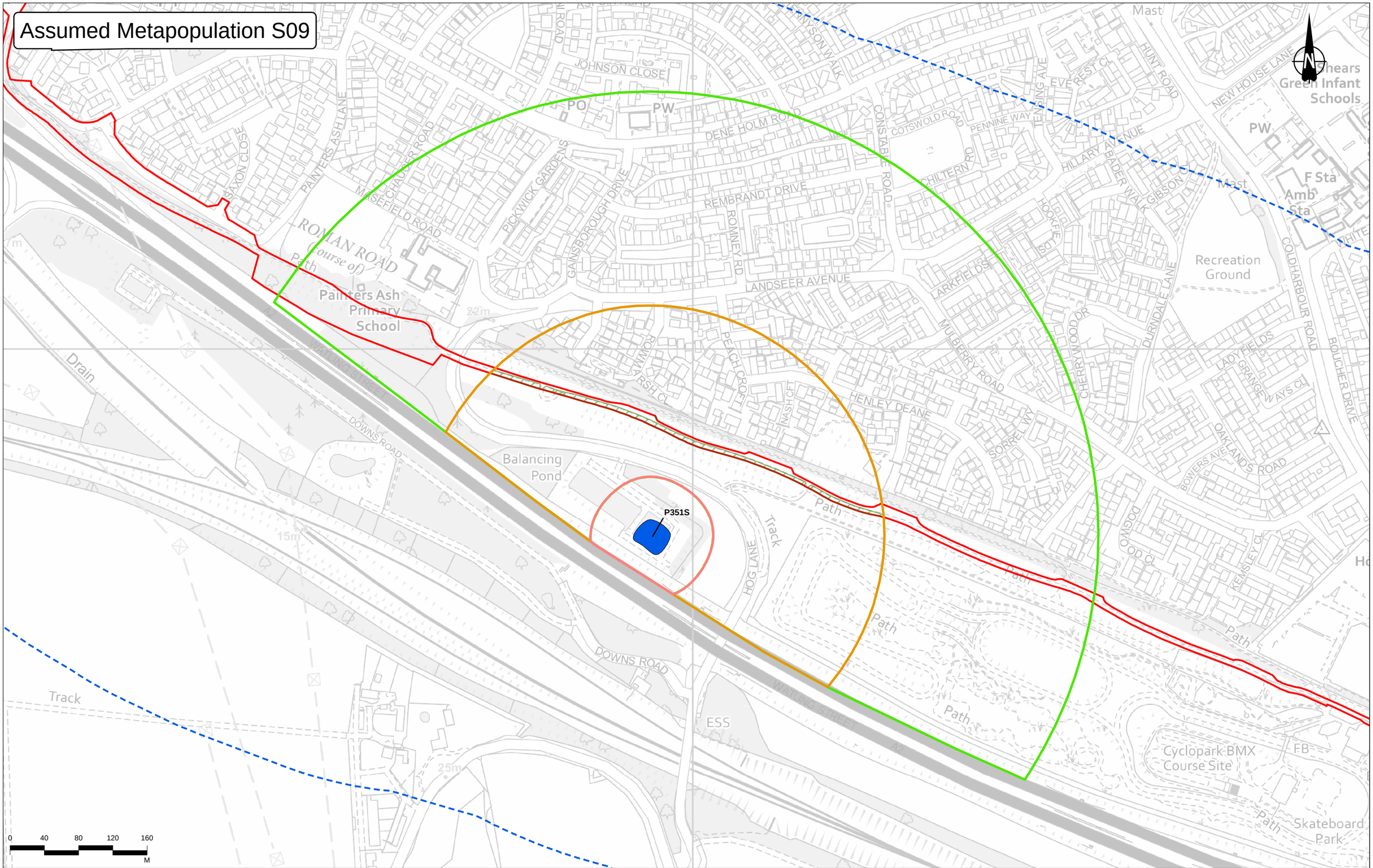
Application Document Number: TR010032/APP/6.3

Scale: 1:4,000

Drawing Title: Figure E4a - Capture and Exclusion Assumed Metapopulation S08

Drawing Number: HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60036

Assumed Metapopulation S09



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Legend

- Order Limits
- GCN survey area
- Habitat manipulation

Ponds

- Assumed present - eDNA inconclusive

Pond buffers

- 50m pond buffer
- 250m pond buffer
- 500m pond buffer

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Appr'd
P02	S8	27/09/2022	DCO Application	CD	HT	BF
P03	S9	24/05/2023	Natural England comments	CD	SM	BF

Client: national highways

Project: LOWER THAMES CROSSING

Status: DCO APPLICATION

Original Size: A3

Revision: P03

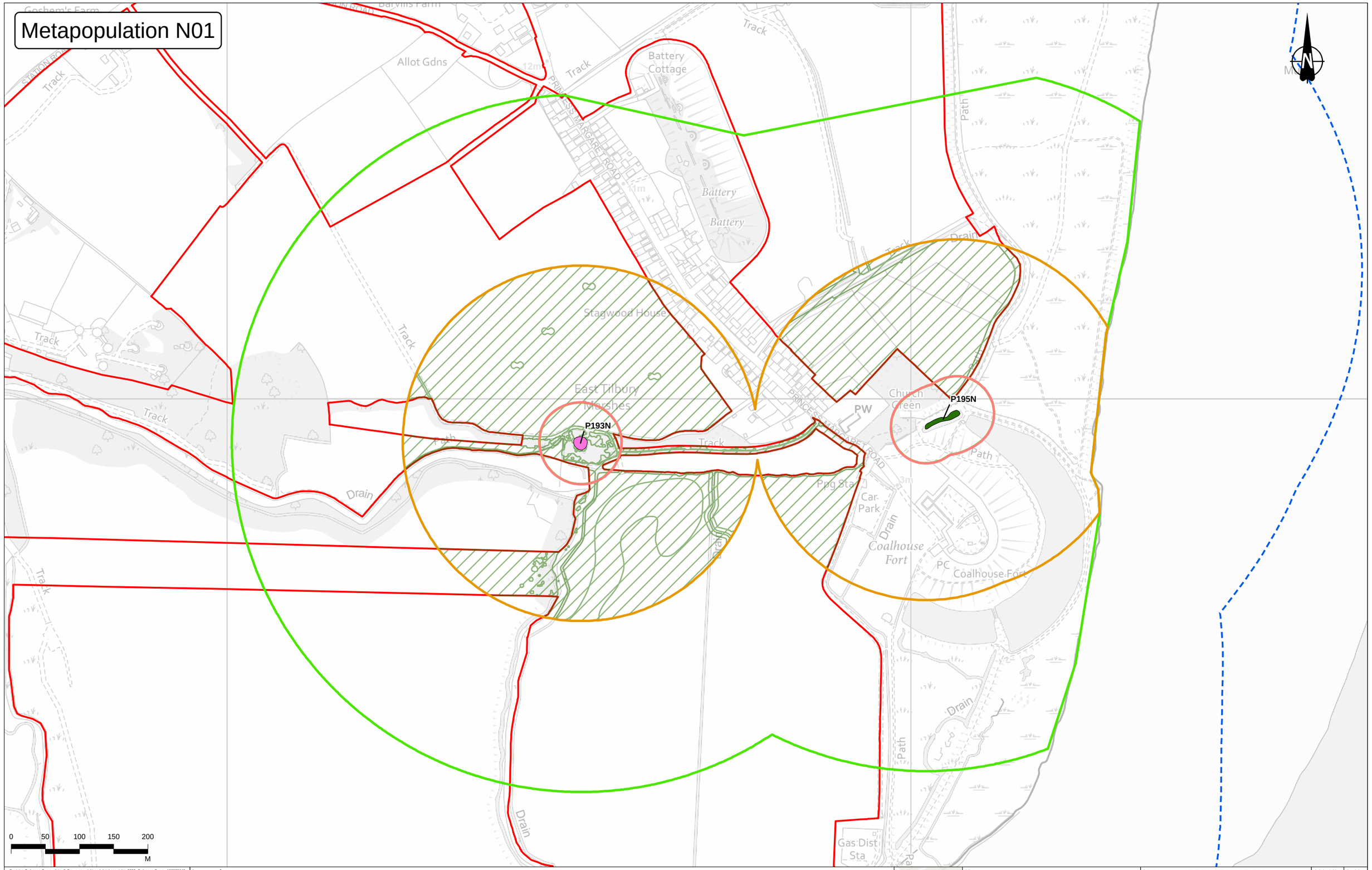
Application Document Number: TR010032/APP/6.3

Scale: 1:4,000

Drawing Title: Figure E4a - Capture and Exclusion Assumed Metapopulation S09

Drawing Number: HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60036

Metapopulation N01



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Legend

- Order Limits
- GCN survey area
- Habitat manipulation

Ponds

- Present - Conventional
- Assumed present - Unsurveyed

Pond buffers

- 50m pond buffer
- 250m pond buffer
- 500m pond buffer

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P02	S8	27/09/2022	DCO Application	CD	HT	BF
P03	S9	24/05/2023	Natural England comments	CD	SM	BF

Client: national highways

Project: LOWER THAMES CROSSING

Status: DCO APPLICATION

Original Size: A3

Revision: P03

Application Document Number: TR010032/APP/6.3

Scale: 1:5,000

Drawing Title: Figure E4a - Capture and Exclusion Metapopulation N01

Drawing Number: HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60036

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