

# Lower Thames Crossing

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

(5 of 8)

APFP Regulation 5(2)(a)

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

Volume 6

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

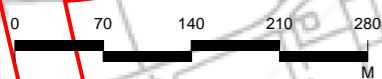
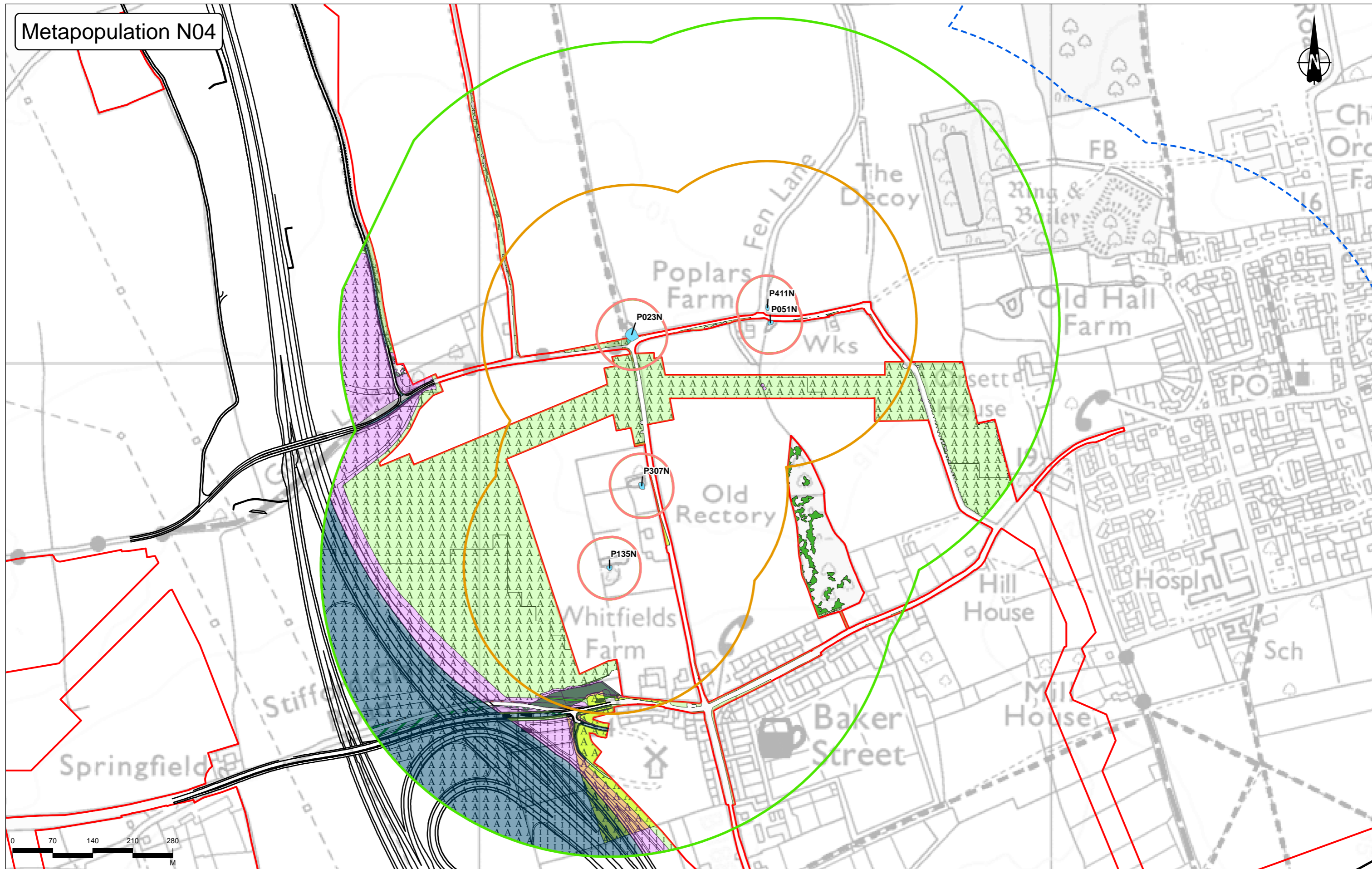
Planning Inspectorate Scheme Ref: TR010032  
Application Document Ref: TR010032/APP/6.3

**VERSION: 2.0**

### Revision history

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

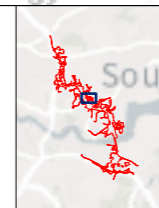
Metapopulation N04



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

Legend	
Order Limits	50m pond buffer
Route alignment	250m pond buffer
GCN survey area	500m pond buffer
Ponds	Ponds
Ponds	Permanent habitat loss (landscaping)
Permanent habitat loss (alignment)	Temporary habitat loss
Phase 1 Habitat	Broad-leaved semi-natural woodland
Broad-leaved plantation woodland	Dense/continuous scrub
Semi-improved neutral grassland	Improved grassland
Improved grassland	Poor semi-improved grassland
Poor semi-improved grassland	Tall ruderal
Tall ruderal	Standing water
Standing water	Arable
Arable	Amenity grassland
Amenity grassland	Buildings
Buildings	Bare ground
Bare ground	Other habitat

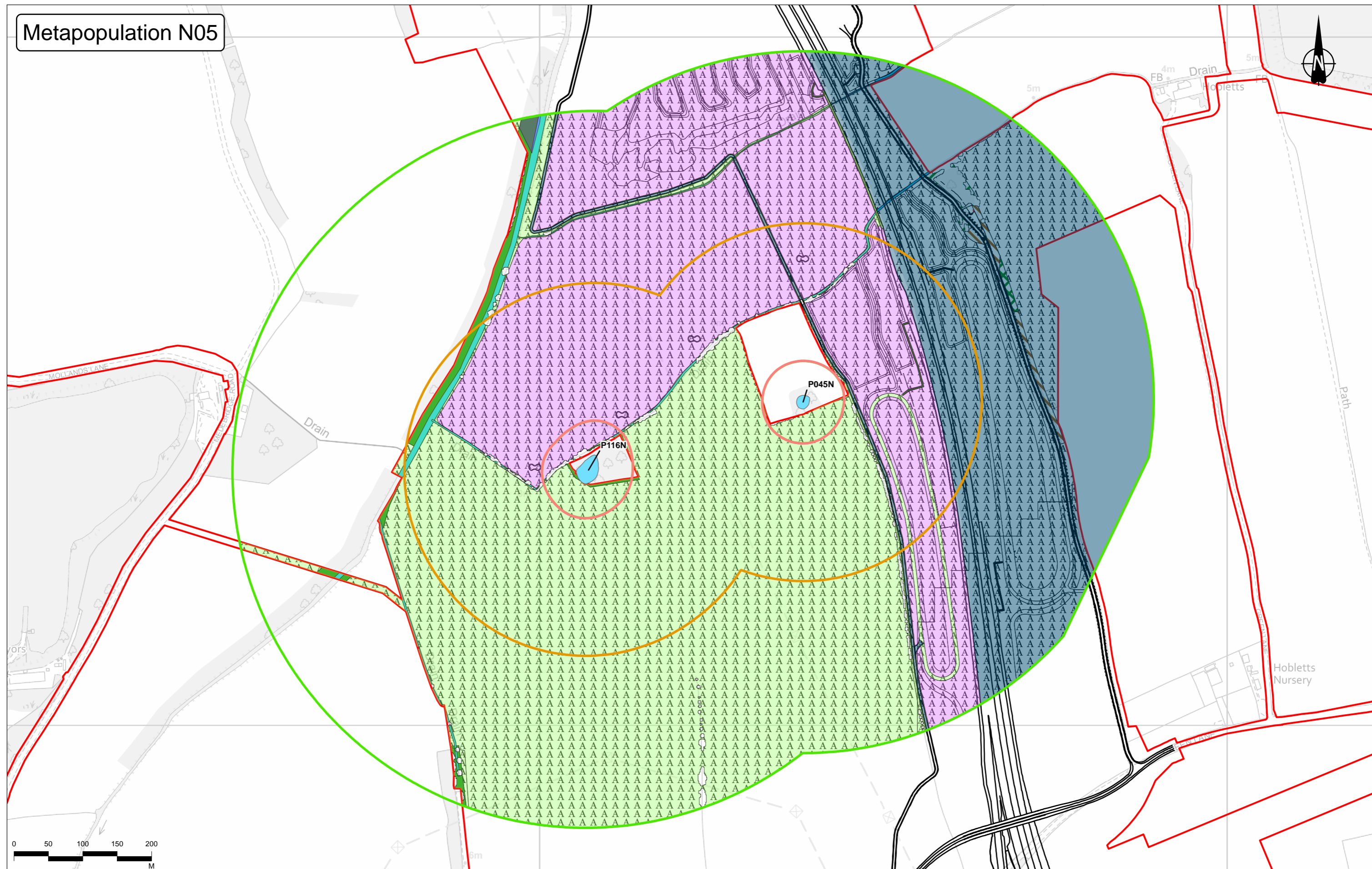


Client: national highways

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 D - Impact Map Metapopulation N04				
	Page 17 of 38				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE0000000-DR-LE-60026				

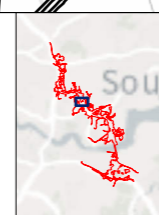
# Metapopulation N05



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

Legend	
Order Limits	50m pond buffer
Route alignment	250m pond buffer
GCN survey area	500m pond buffer
Ponds	<b>Habitat Impact Category</b>
Ponds	Permanent habitat loss (landscaping)
Ponds	Permanent habitat loss (alignment)
Temporary habitat loss	Tall ruderal
<b>Phase 1 Habitat</b>	Standing water
Broad-leaved semi-natural woodland	Running water
Broad-leaved plantation woodland	Spoil with tall ruderal
Dense/continuous scrub	Arable
Poor semi-improved grassland	Bare ground

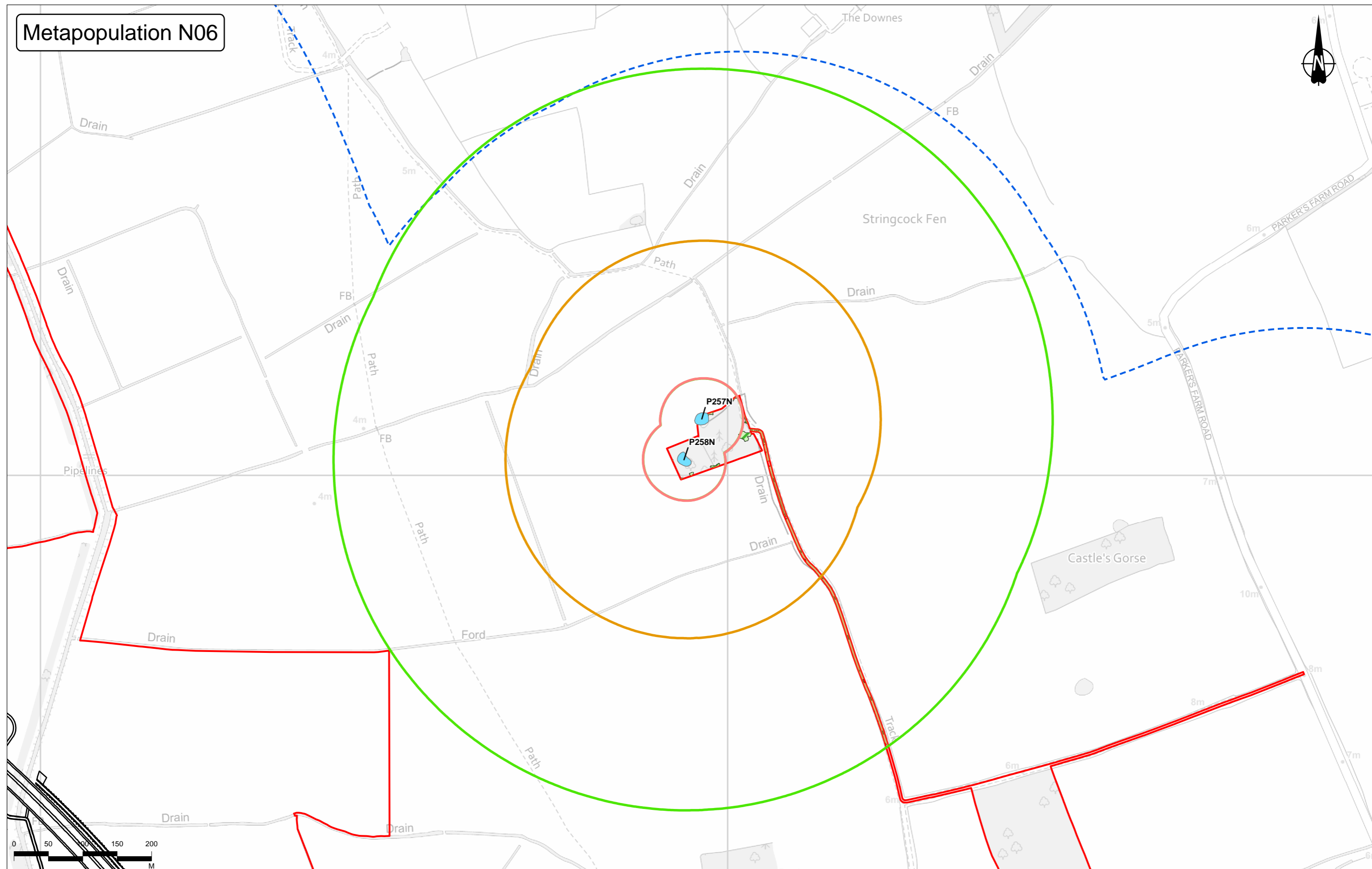


Client  
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Project  
**LOWER THAMES CROSSING**

Status	DCO APPLICATION	Original Size	A3	Revision	P03
Application Document Number	TR010032/APP/6.3	Scale	1:5,000		
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	Page 18 of 38				
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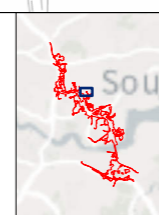
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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chkd	Apprv'd
P03	S9	10/05/2023	Natural England comments	CD	SM	BF

Legend	
Order Limits	50m pond buffer
Route alignment	250m pond buffer
GCN survey area	500m pond buffer
Ponds	Broad-leaved plantation woodland
Ponds	Tall ruderal
Permanent habitat loss (alignment)	Standing water
Temporary habitat loss	Arable
Phase 1 Habitat	Bare ground
Permanent habitat loss (landscaping)	

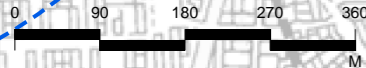
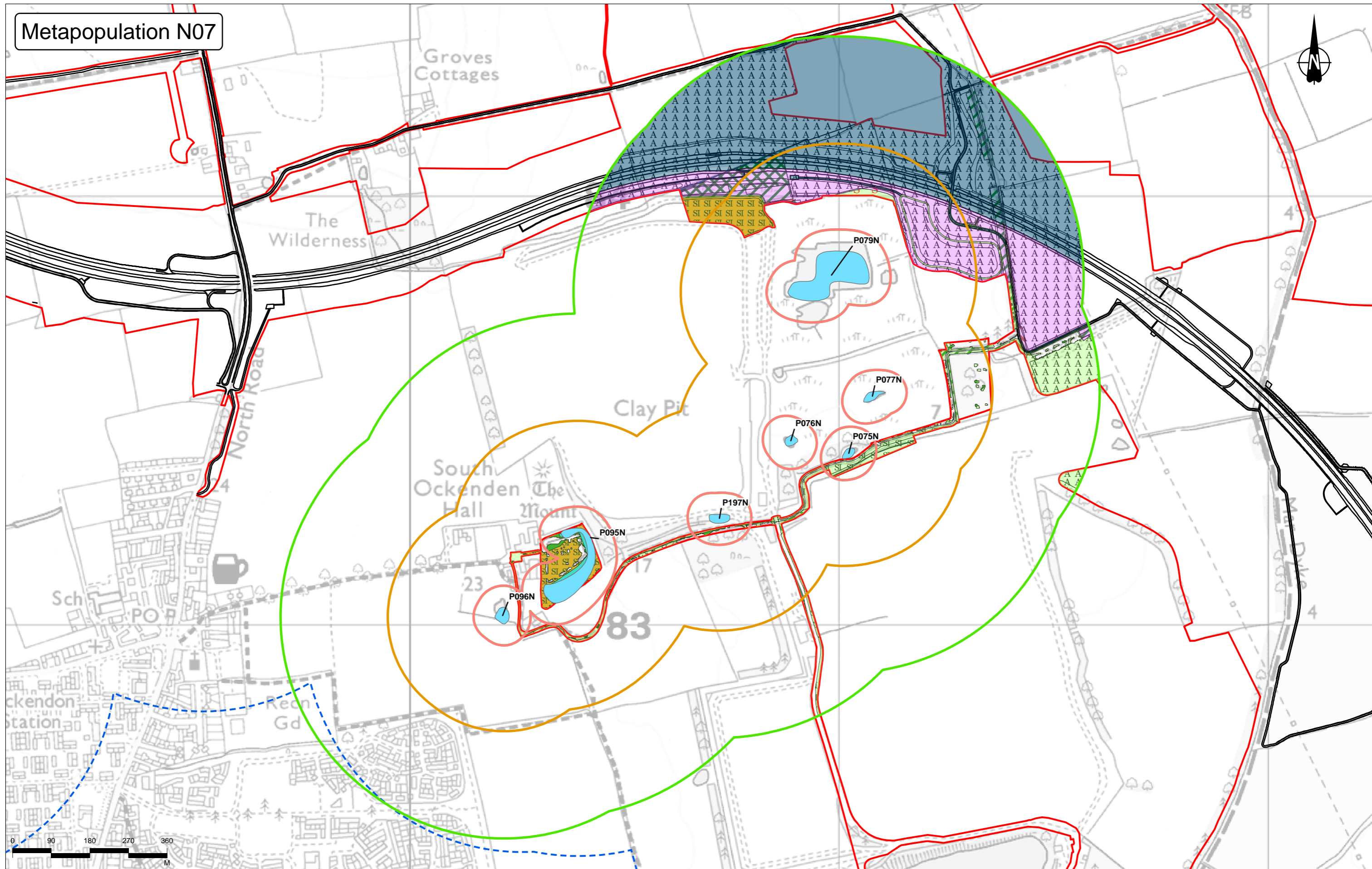


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**national highways**

Project  
**LOWER THAMES CROSSING**

Status	DCO APPLICATION	Original Size	A3	Revision	P03
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	Page 19 of 38				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE0000000-DR-LE-60026				

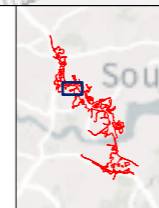
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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chkd	Apprvd
P03	S9	10/05/2023	Natural England comments	CD	SM	BF

Legend	
Order Limits	50m pond buffer
Route alignment	250m pond buffer
GCN survey area	500m pond buffer
Ponds	<b>Habitat Impact Category</b>
Ponds	Permanent habitat loss (landscaping)
Permanent habitat loss (alignment)	Temporary habitat loss
Phase 1 Habitat	Semi-improved neutral grassland
Broad-leaved semi-natural woodland	Poor semi-improved grassland
Broad-leaved plantation woodland	Tall ruderal
Dense/continuous scrub	Standing water
	Running water
	Spoil with bare ground
	Arable
	Buildings
	Bare ground
	Other habitat

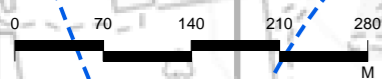


Client  
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**LOWER THAMES CROSSING**

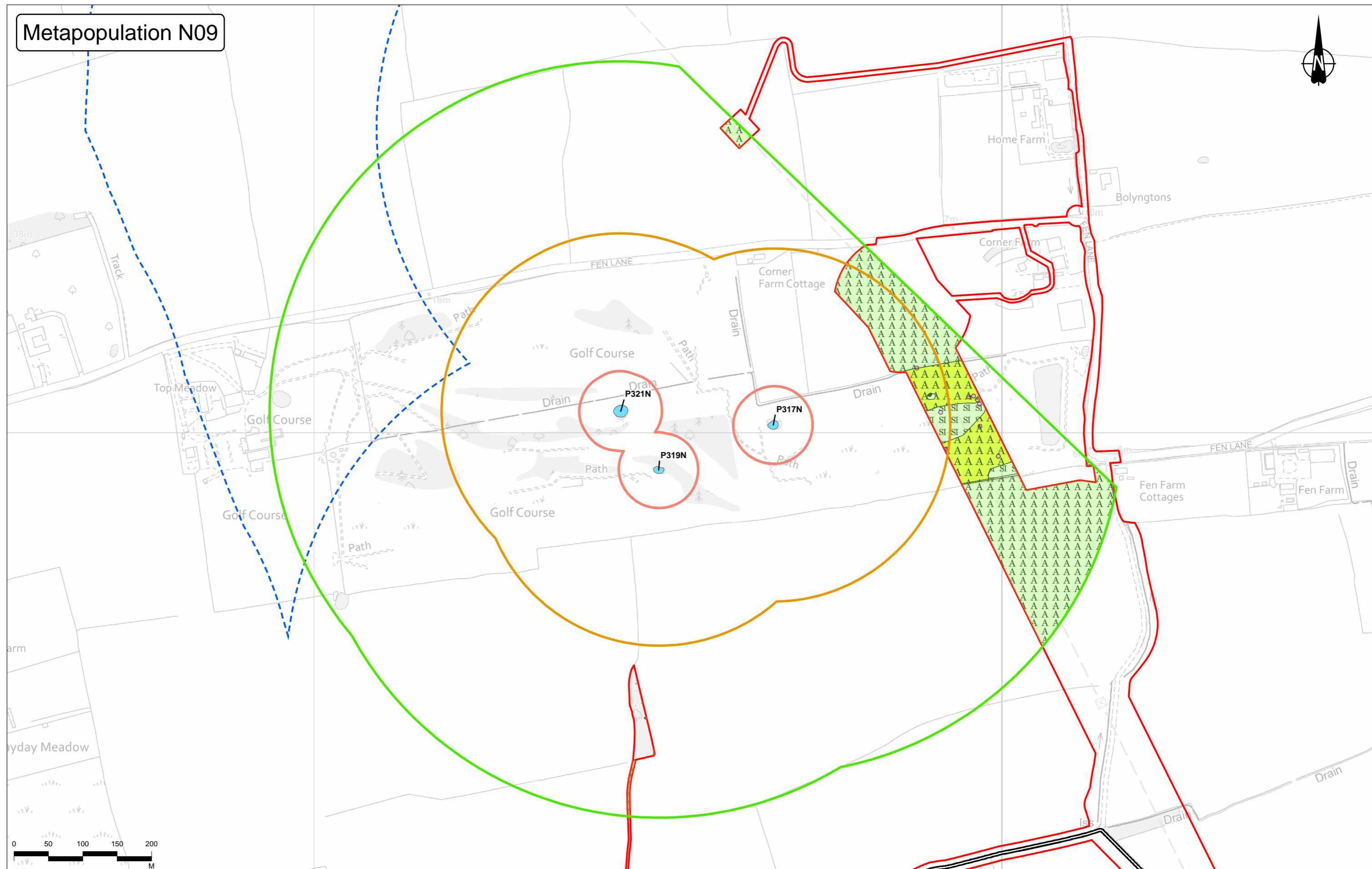
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Drawing Title	Figure D - Impact Map Metapopulation N07				
	Page 20 of 38				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE0000000-DR-LE-60026				

Metapopulation N08



<p><b>Legend</b></p> <ul style="list-style-type: none"> <li>Order Limits</li> <li>Route alignment</li> <li>GCN survey area</li> <li>Ponds</li> <li>Ponds</li> <li>50m pond buffer</li> </ul>		<p><b>Phase 1 Habitat</b></p> <ul style="list-style-type: none"> <li>Broad-leaved plantation woodland</li> <li>Dense/continuous scrub</li> <li>Improved grassland</li> <li>Poor semi-improved grassland</li> <li>Tall ruderal</li> <li>Standing water</li> </ul>		<p><b>Habitat Impact Category</b></p> <ul style="list-style-type: none"> <li>Permanent habitat loss (landscaping)</li> <li>Permanent habitat loss (alignment)</li> <li>Temporary habitat loss</li> </ul>		<ul style="list-style-type: none"> <li>Arable</li> <li>Amenity grassland</li> <li>Buildings</li> <li>Bare ground</li> <li>Other habitat</li> </ul>	
<p>Contains Ordnance Survey data. © Crown copyright and database rights 2022. Ordnance Survey 100030649.</p>				<p>Client</p> <p>national highways</p>		<p>Status</p> <p>DCO APPLICATION</p>	
<p>Original Size</p> <p>A3</p>		<p>Revision</p> <p>P03</p>		<p>Application Document Number</p> <p>TR010032/APP/6.3</p>		<p>Scale</p> <p>1:6,000</p>	
<p>Project</p> <p>LOWER THAMES CROSSING</p>		<p>Drawing Title</p> <p>Figure D - Impact Map Metapopulation N08</p>		<p>Page 21 of 38</p>		<p>Drawing Number</p> <p>HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60026</p>	
<p>Rev</p> <p>Status</p> <p>Rev. Date</p> <p>Purpose of revision</p> <p>Drawn</p> <p>Chkd</p> <p>Apprvd</p>		<p>P03</p> <p>S9</p> <p>10/05/2023</p> <p>Natural England comments</p> <p>CD</p> <p>SM</p> <p>BF</p>		<p>Original Size</p> <p>A3</p>		<p>Revision</p> <p>P03</p>	

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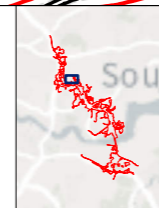


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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chkd	Apprv'd
P03	S9	10/05/2023	Natural England comments	CD	SM	BF

### Legend

- Order Limits
- Route alignment
- GCN survey area
- Ponds
- Ponds
- 50m pond buffer
- 250m pond buffer
- 500m pond buffer
- Habitat Impact Category**
- Permanent habitat loss (landscaping)
- Permanent habitat loss (alignment)
- Temporary habitat loss
- Phase 1 Habitat
- Broad-leaved plantation woodland
- Dense/continuous scrub
- Poor semi-improved grassland
- Standing water
- Arable
- Amenity grassland
- Bare ground
- Other habitat



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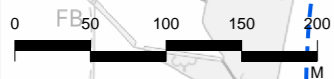
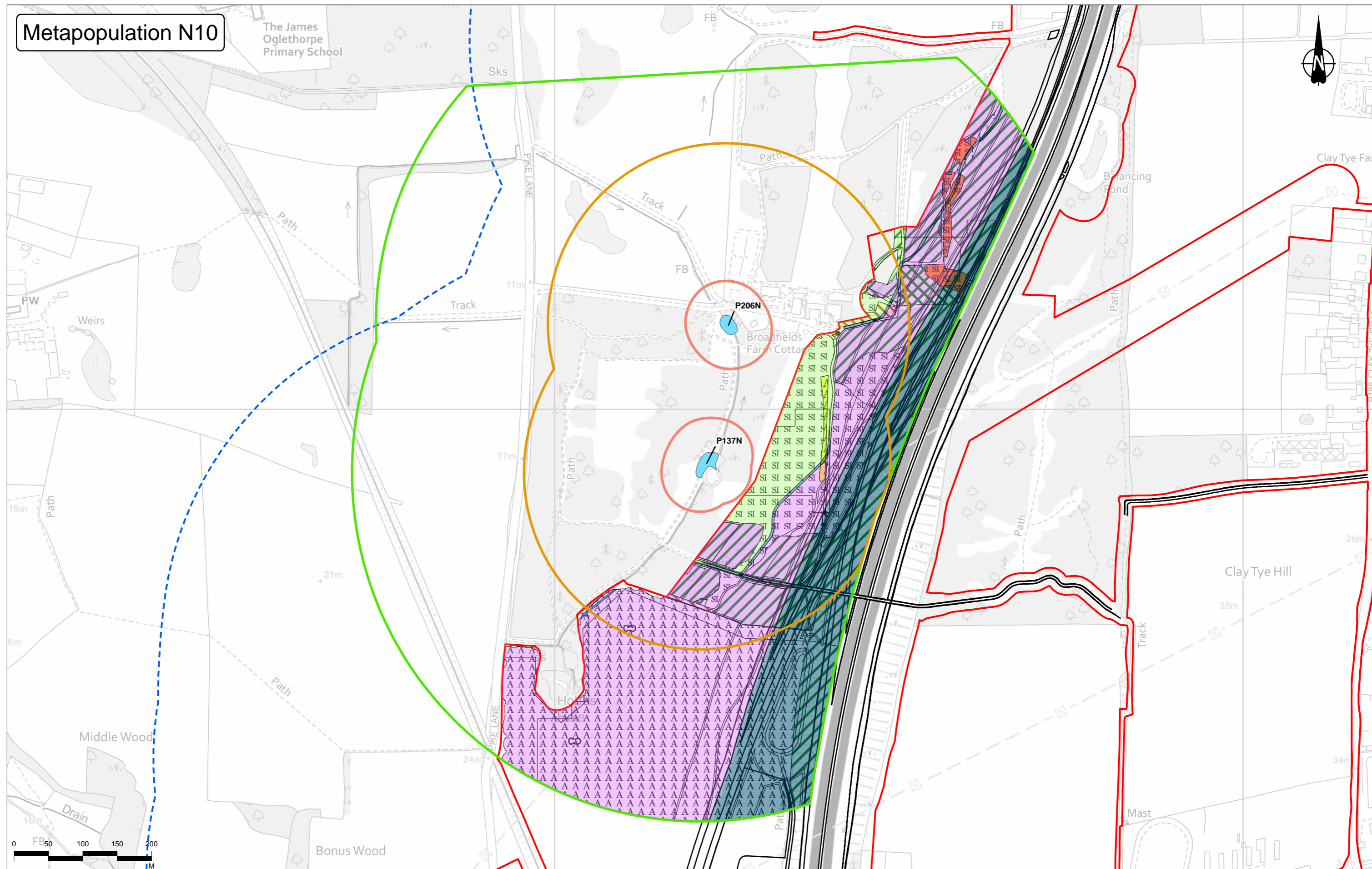
Project  
**LOWER THAMES CROSSING**

Status	DCO APPLICATION	Original Size	A3	Revision	P03
Application Document Number	TR010032/APP/6.3	Scale	1:5,000		
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Drawing Number	HE540039-CJV-EBD-SZP_EGNE0000000-DR-LE-60026				



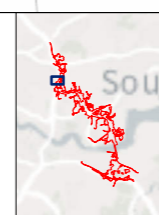
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The James Oglethorpe Primary School



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

Legend	
Order Limits	Permanent habitat loss (alignment)
Route alignment	Temporary habitat loss
GCN survey area	Phase 1 Habitat
Ponds	Broad-leaved semi-natural woodland
Ponds	Broad-leaved plantation woodland
50m pond buffer	Permanent habitat loss (landscaping)
250m pond buffer	Coniferous plantation woodland
500m pond buffer	Mixed plantation woodland
Improved grassland	Dense/continuous scrub
Poor semi-improved grassland	Semi-improved neutral grassland
Tall ruderal	Running water
Arable	Amenity grassland
Bare ground	

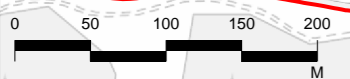
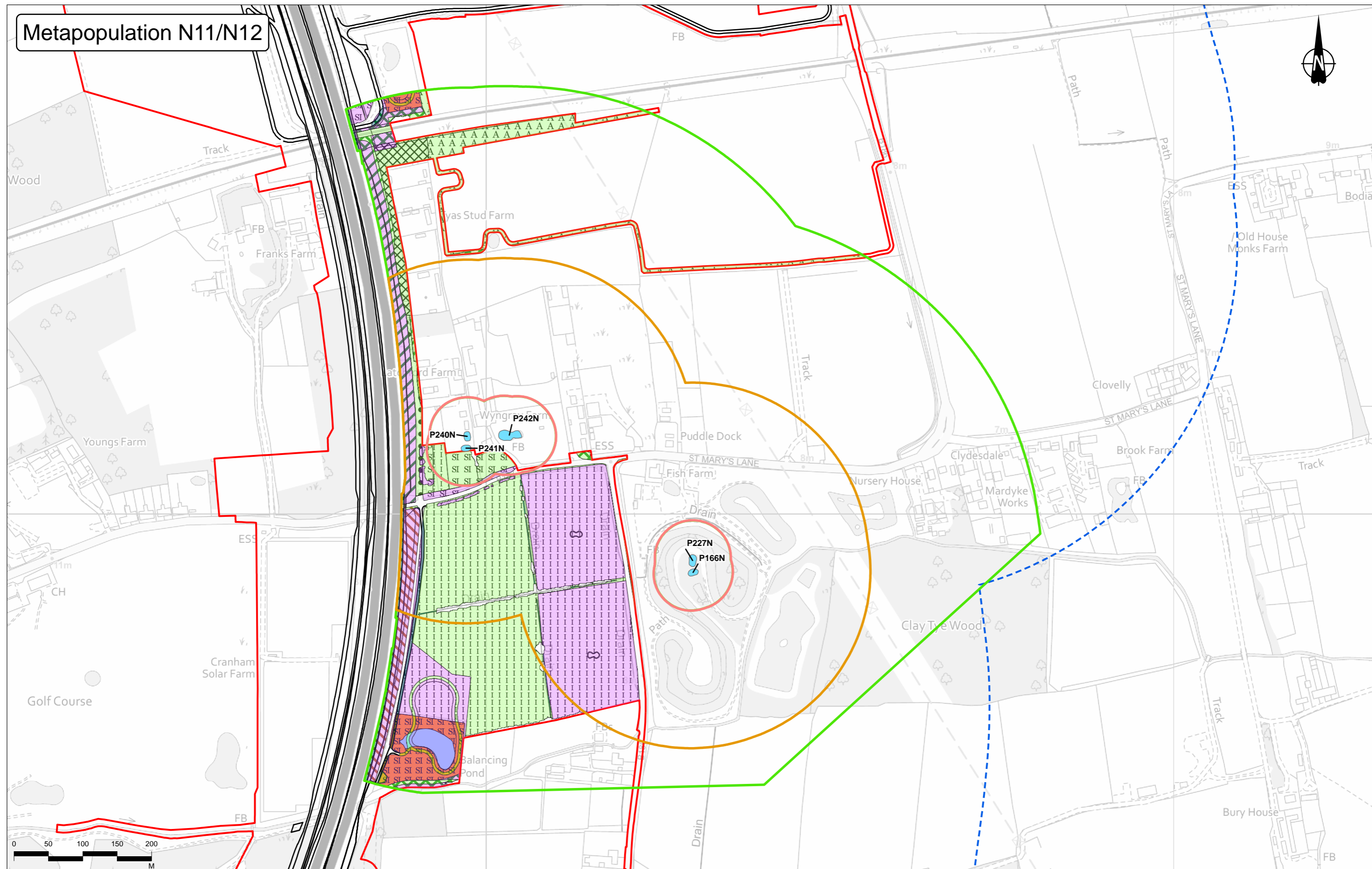


Client: national highways

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 D - Impact Map Metapopulation N10				
	Page 23 of 38				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE0000000-DR-LE-60026				

# Metapopulation N11/N12



<p>Contains Ordnance Survey data. © Crown copyright and database rights 2022. Ordnance Survey 100030649.</p>		<p><b>Legend</b></p>		<p>Client: <b>national highways</b></p>		<p>Status: <b>DCO APPLICATION</b></p>		<p>Original Size: <b>A3</b></p>		<p>Revision: <b>P03</b></p>	
<p>Route alignment</p> <p>GCN survey area</p> <p>Ponds</p> <p>Ponds</p>		<p><b>Pond buffers</b></p> <p>50m pond buffer</p> <p>250m pond buffer</p> <p>500m pond buffer</p> <p><b>Habitat Impact Category</b></p> <p>Permanent habitat loss (landscaping)</p> <p>Permanent habitat loss (alignment)</p>		<p><b>Phase 1 Habitat</b></p> <p>Broad-leaved plantation woodland</p> <p>Dense/continuous scrub</p> <p>Semi-improved neutral grassland</p> <p>Improved grassland</p>		<p>Poor semi-improved grassland</p> <p>Tall ruderal</p> <p>Swamp</p> <p>Standing water</p> <p>Running water</p> <p>Spoil</p>		<p>Arable</p> <p>Amenity grassland</p> <p>Caravan site</p> <p>Buildings</p> <p>Bare ground</p> <p>Other habitat</p>		<p>Application Document Number: <b>TR010032/APP/6.3</b></p> <p>Drawing Title: <b>Figure D - Impact Map Metapopulation N11/N12</b></p> <p>Scale: <b>1:5,000</b></p>	
<p>Project: <b>LOWER THAMES CROSSING</b></p>		<p>Drawing Number: <b>HE540039-CJV-EBD-SZP_EGNE0000000-DR-LE-60026</b></p>		<p>Page 24 of 38</p>		<p>Application Document Number: <b>TR010032/APP/6.3</b></p>		<p>Drawing Title: <b>Figure D - Impact Map Metapopulation N11/N12</b></p>		<p>Scale: <b>1:5,000</b></p>	
<p>Rev: <b>S9</b></p> <p>Status: <b>10/05/2023</b></p> <p>Rev. Date: <b>Natural England comments</b></p> <p>Purpose of revision: <b>CD SM BF</b></p>		<p>Drawn: <b>CD</b></p> <p>Chkd: <b>SM</b></p> <p>Apprv'd: <b>BF</b></p>		<p>Project: <b>LOWER THAMES CROSSING</b></p>		<p>Drawing Number: <b>HE540039-CJV-EBD-SZP_EGNE0000000-DR-LE-60026</b></p>		<p>Application Document Number: <b>TR010032/APP/6.3</b></p>		<p>Drawing Title: <b>Figure D - Impact Map Metapopulation N11/N12</b></p>	

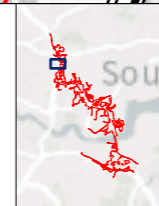
Metapopulation N13



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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chkd	Apprvd
P03	S9	10/05/2023	Natural England comments	CD	SM	BF

Legend	
Order Limits	500m pond buffer
Route alignment	250m pond buffer
GCN survey area	500m pond buffer
Ponds	<b>Habitat Impact Category</b>
Ponds	Permanent habitat loss (landscaping)
Permanent habitat loss (alignment)	Broad-leaved semi-natural woodland
Temporary habitat loss	Broad-leaved plantation woodland
Phase 1 Habitat	Dense/continuous scrub
Semi-improved neutral grassland	Running water
Improved grassland	Arable
Poor semi-improved grassland	Amenity grassland
Tall ruderal	Bare ground
Standing water	Other habitat

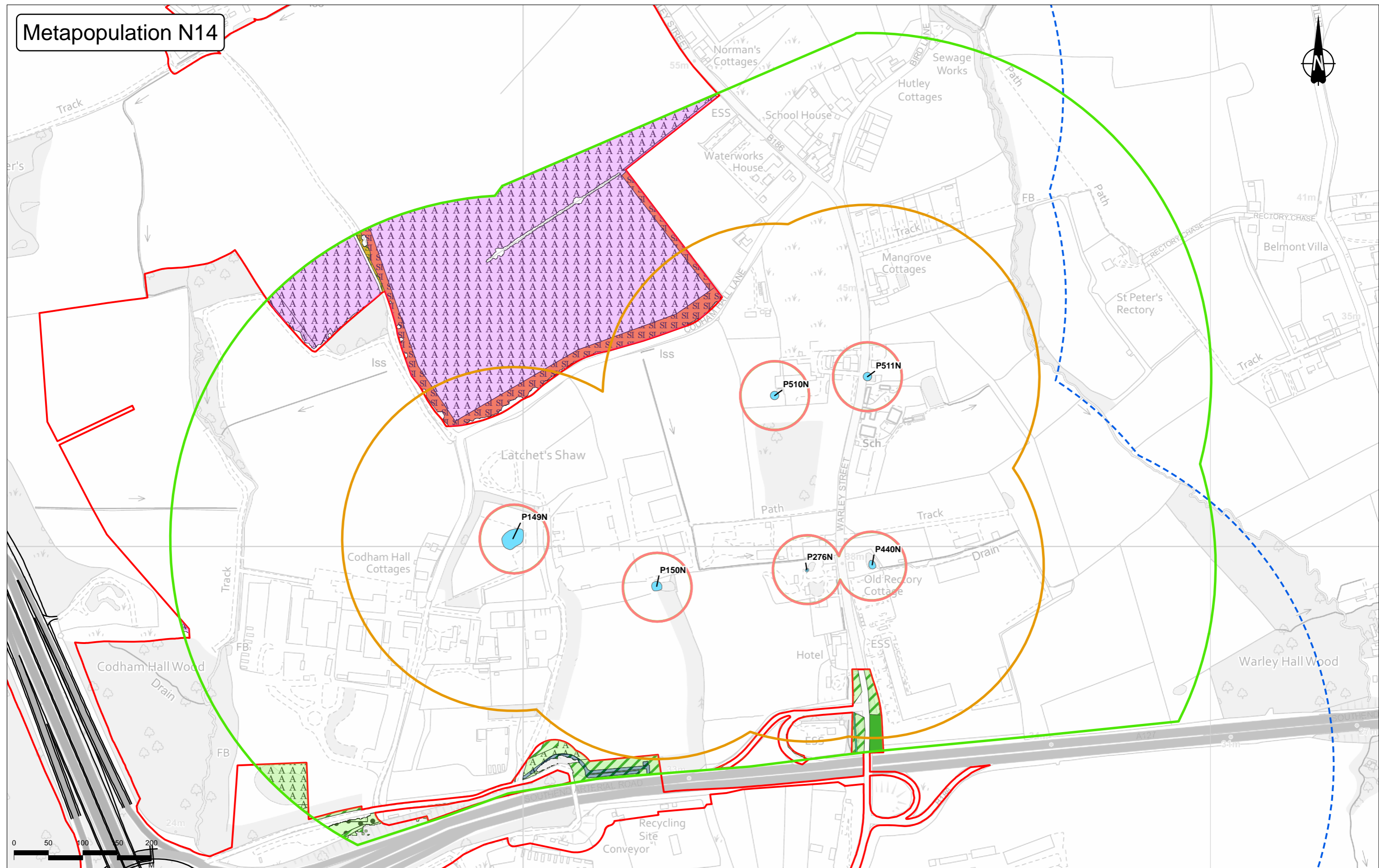


Client  
**national highways**

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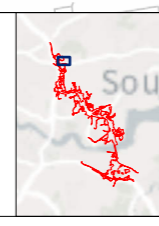
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Application Document Number	TR010032/APP/6.3	Scale	1:6,000		
Drawing Title	Figure D - Impact Map Metapopulation N13				
	Page 25 of 38				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60026				

# Metapopulation N14



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

<b>Legend</b>	<b>Pond buffers</b>	<b>Phase 1 Habitat</b>	<b>Habitat Impact Category</b>
Order Limits	50m pond buffer	Permanent habitat loss (alignment)	Permanent habitat loss (landscaping)
Route alignment	250m pond buffer	Temporary habitat loss	Semi-improved neutral grassland
GCN survey area	500m pond buffer	Broad-leaved semi-natural woodland	Improved grassland
Ponds		Broad-leaved plantation woodland	Poor semi-improved grassland
Ponds			Arable
			Running water
			Bare ground

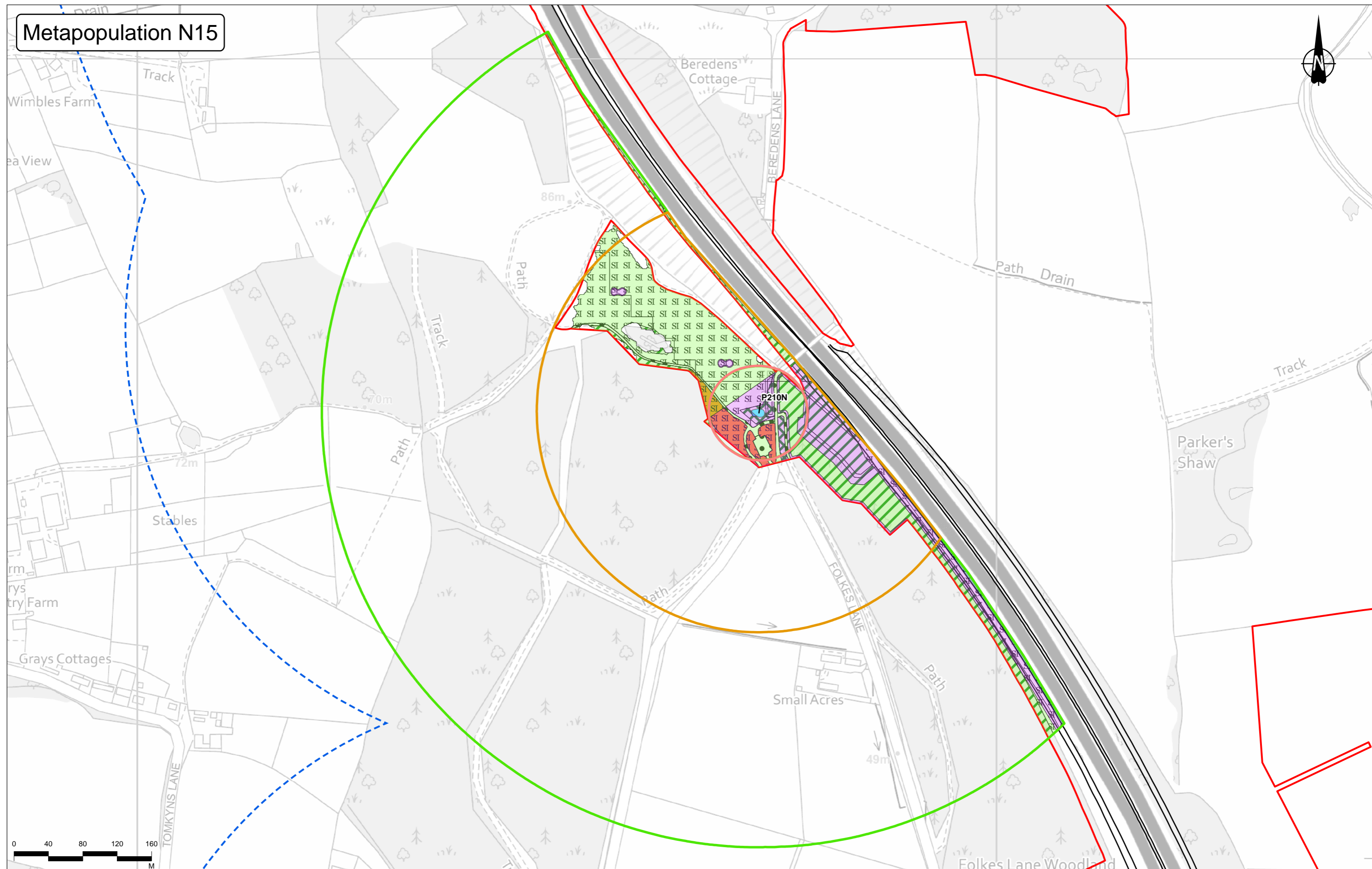


Client: **national highways**

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 D - Impact Map Metapopulation N14				
	Page 26 of 38				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60026				

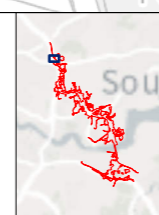
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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chkd	Apprv'd
P03	S9	10/05/2023	Natural England comments	CD	SM	BF

Legend	
Order Limits	50m pond buffer
Route alignment	250m pond buffer
GCN survey area	500m pond buffer
Ponds	Permanent habitat loss (alignment)
Ponds	Temporary habitat loss
Ponds	Phase 1 Habitat
Ponds	Broad-leaved plantation woodland
Ponds	Dense/continuous scrub
Ponds	Semi-improved neutral grassland
Ponds	Poor semi-improved grassland
Ponds	Standing water
Ponds	Bare ground

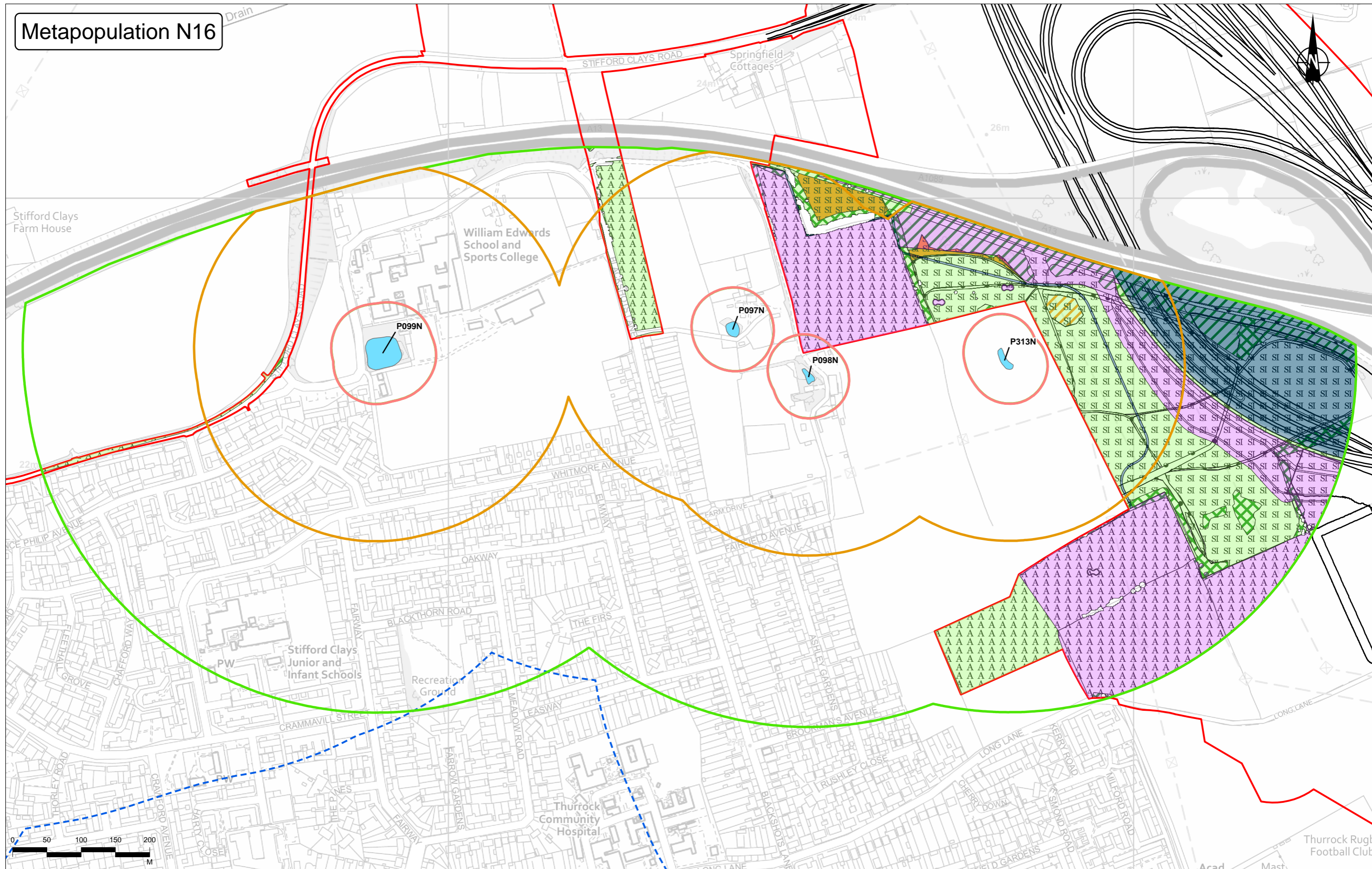


Client: national highways

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 D - Impact Map Metapopulation N15				
	Page 27 of 38				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE0000000-DR-LE-60026				

# Metapopulation N16



P03	S9	10/05/2023	Natural England comments	CD	SM	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Checked	Approved

**Legend**

- Order Limits
- Route alignment
- GCN survey area
- Ponds
- Ponds
- Pond buffers
- 250m pond buffer
- 500m pond buffer
- Permanent habitat loss (landscaping)
- Permanent habitat loss (alignment)
- Temporary habitat loss
- 50m pond buffer

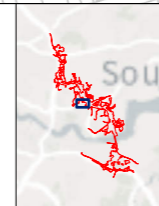
**Habitat Impact Category**

- Phase 1 Habitat
- Broad-leaved plantation woodland
- Dense/continuous scrub
- Semi-improved acid grassland
- Semi-improved neutral grassland
- Poor semi-improved grassland
- Tall ruderal

- Non-ruderal tall herb and fern
- Arable
- Amenity grassland
- Buildings
- Bare ground
- Other habitat

**Scale**

0 50 100 150 200 M

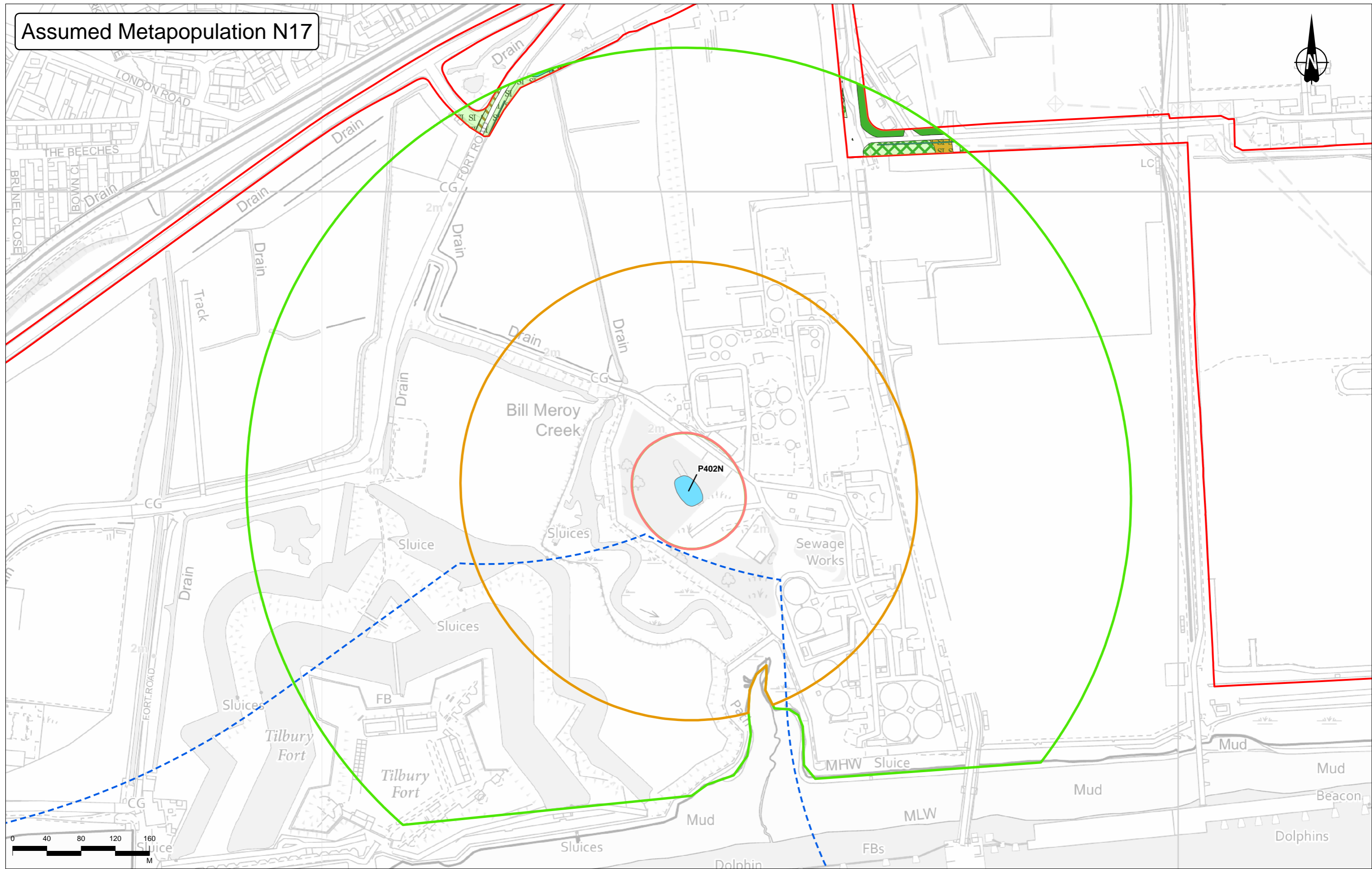


Client: **national highways**

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 D - Impact Map Metapopulation N16				
Page 28 of 38					
Drawing Number	HE540039-CJV-EBD-SZP_EGNE0000000-DR-LE-60026				

# Assumed Metapopulation N17

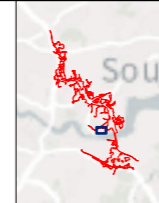


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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chkd	Apprvd
P03	S9	10/05/2023	Natural England comments	CD	SM	BF

**Legend**

Order Limits	<b>Pond buffers</b>	Permanent habitat loss (alignment)	Poor semi-improved grassland
Route alignment	50m pond buffer	Temporary habitat loss	Tall ruderal
GCN survey area	250m pond buffer	<b>Phase 1 Habitat</b>	Standing water
Ponds	500m pond buffer	Broad-leaved semi-natural woodland	
Ponds	<b>Habitat Impact Category</b>	Dense/continuous scrub	
	Permanent habitat loss (landscaping)	Semi-improved neutral grassland	

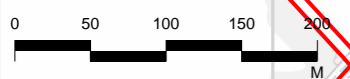
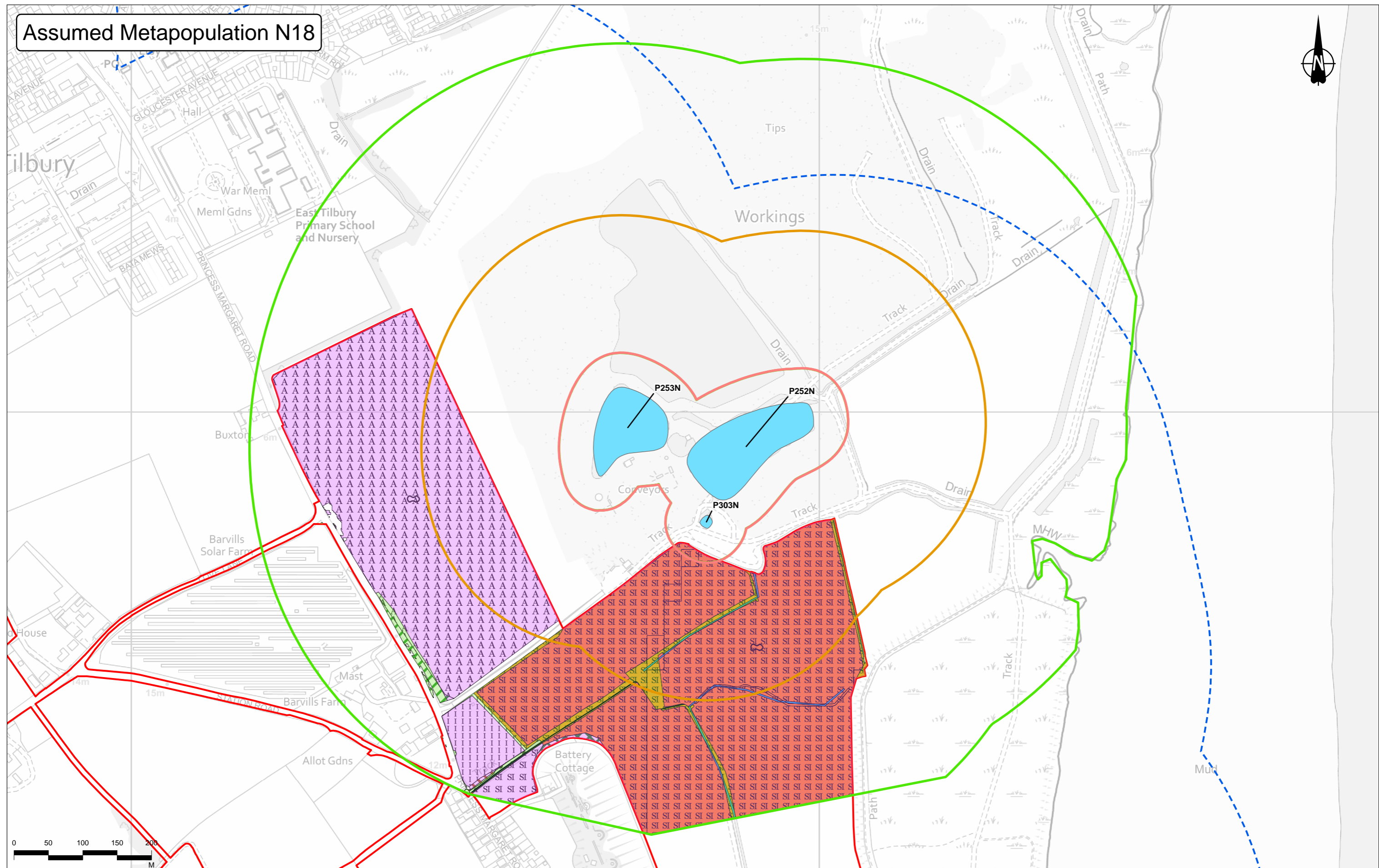


Client: **national highways**

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 D - Impact Map Assumed Metapopulation N17 Page 29 of 38				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE0000000-DR-LE-60026				

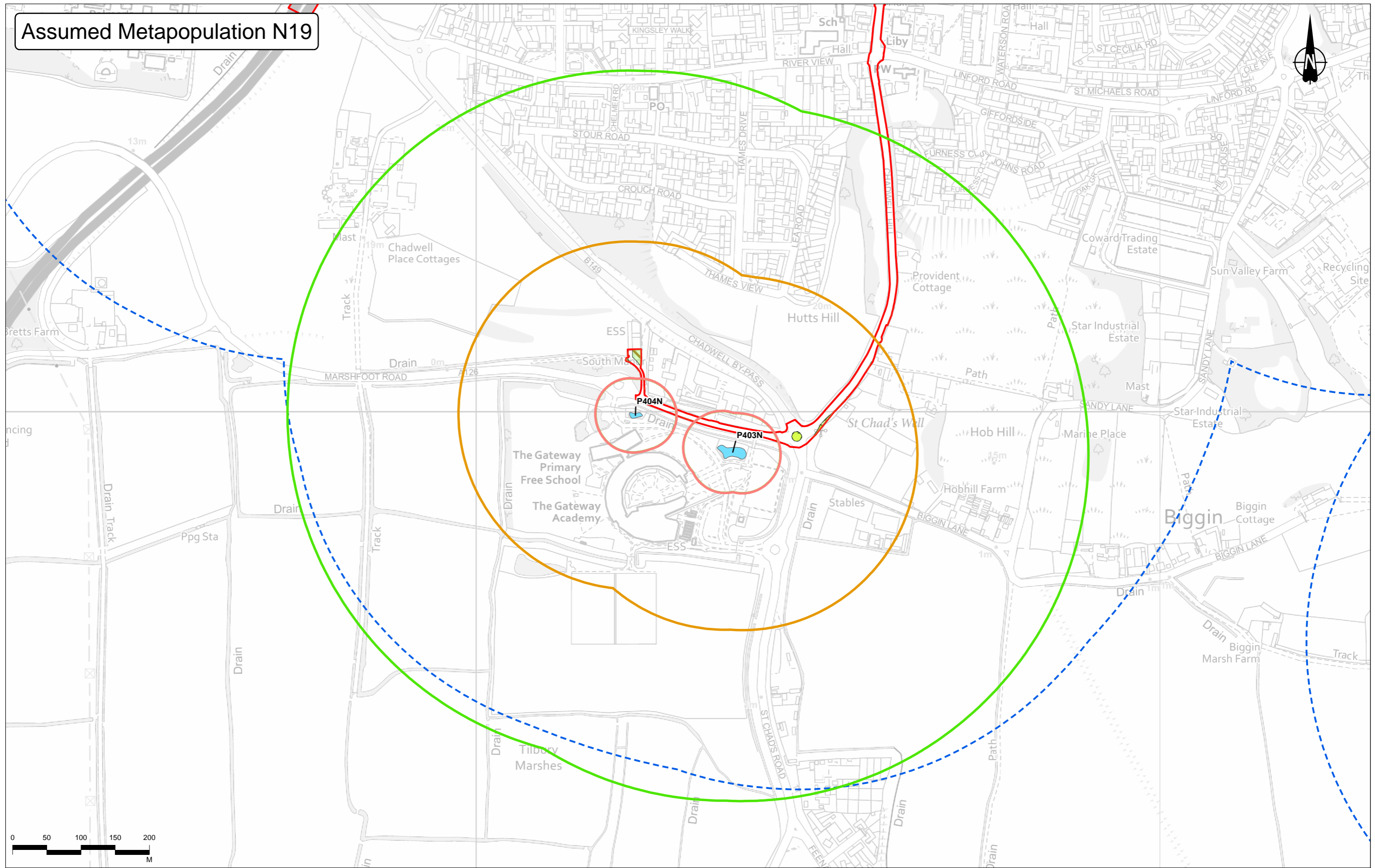
# Assumed Metapopulation N18



<p>Contains Ordnance Survey data. © Crown copyright and database rights 2022. Ordnance Survey 100030649.</p>		<p><b>Legend</b></p> <ul style="list-style-type: none"> <li>Order Limits</li> <li>Route alignment</li> <li>GCN survey area</li> <li>Ponds</li> <li>Ponds</li> <li>50m pond buffer</li> </ul>		<p><b>Habitat Impact Category</b></p> <ul style="list-style-type: none"> <li>Permanent habitat loss (landscaping)</li> <li>Permanent habitat loss (alignment)</li> <li>Temporary habitat loss</li> </ul>		<p><b>Phase 1 Habitat</b></p> <ul style="list-style-type: none"> <li>Broad-leaved plantation woodland</li> <li>Dense/continuous scrub</li> <li>Semi-improved neutral grassland</li> <li>Improved grassland</li> <li>Poor semi-improved grassland</li> <li>Tall ruderal</li> </ul>		<ul style="list-style-type: none"> <li>Standing water</li> <li>Refuse tip with bare ground</li> <li>Arable</li> <li>Bare ground</li> <li>Other habitat</li> </ul>		<p>Client: national highways</p> <p>Project: LOWER THAMES CROSSING</p>		<p>Status: DCO APPLICATION</p> <p>Application Document Number: TR010032/APP/6.3</p> <p>Drawing Title: Figure D - Impact Map Assumed Metapopulation N18</p> <p>Page 30 of 38</p> <p>Drawing Number: HE540039-CJV-EBD-SZP_EGNE0000000-DR-LE-60026</p>		<p>Original Size: A3</p> <p>Revision: P03</p> <p>Scale: 1:5,000</p>	
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chkd	Apprvd									
P03	S9	10/05/2023	Natural England comments	CD	SM	BF									



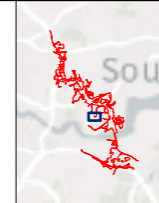
# Assumed Metapopulation N19



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

Order Limits	50m pond buffer	Permanent habitat loss (alignment)	Tall ruderal
Route alignment	250m pond buffer	Temporary habitat loss	Amenity grassland
GCN survey area	500m pond buffer	Phase 1 Habitat	Other habitat
Ponds	<b>Habitat Impact Category</b>	Dense/continuous scrub	Improved grassland
Ponds	Permanent habitat loss (landscaping)	Poor semi-improved grassland	

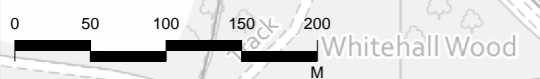
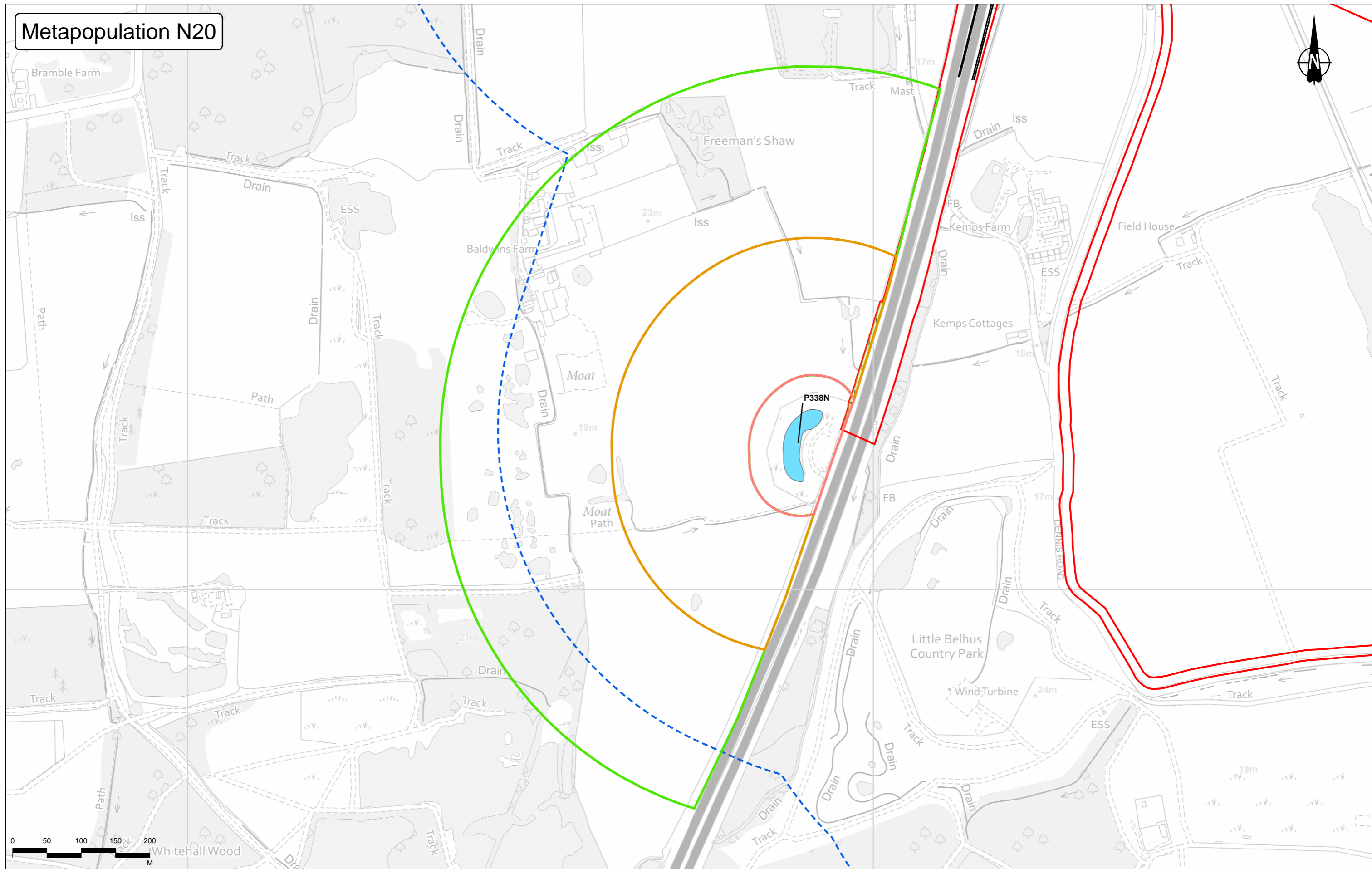


Client: national highways

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 D - Impact Map Assumed Metapopulation N19 Page 31 of 38				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE0000000-DR-LE-60026				

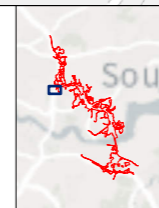
# Metapopulation N20



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

Legend		Habitat Impact Category		Phase 1 Habitat	
	Order Limits		Ponds		Semi-improved neutral grassland
	Route alignment		50m pond buffer		Improved grassland
	GCN survey area		250m pond buffer		Tall ruderal
	Ponds		500m pond buffer		Running water
			Permanent habitat loss (landscaping)		
			Permanent habitat loss (alignment)		
			Temporary habitat loss		

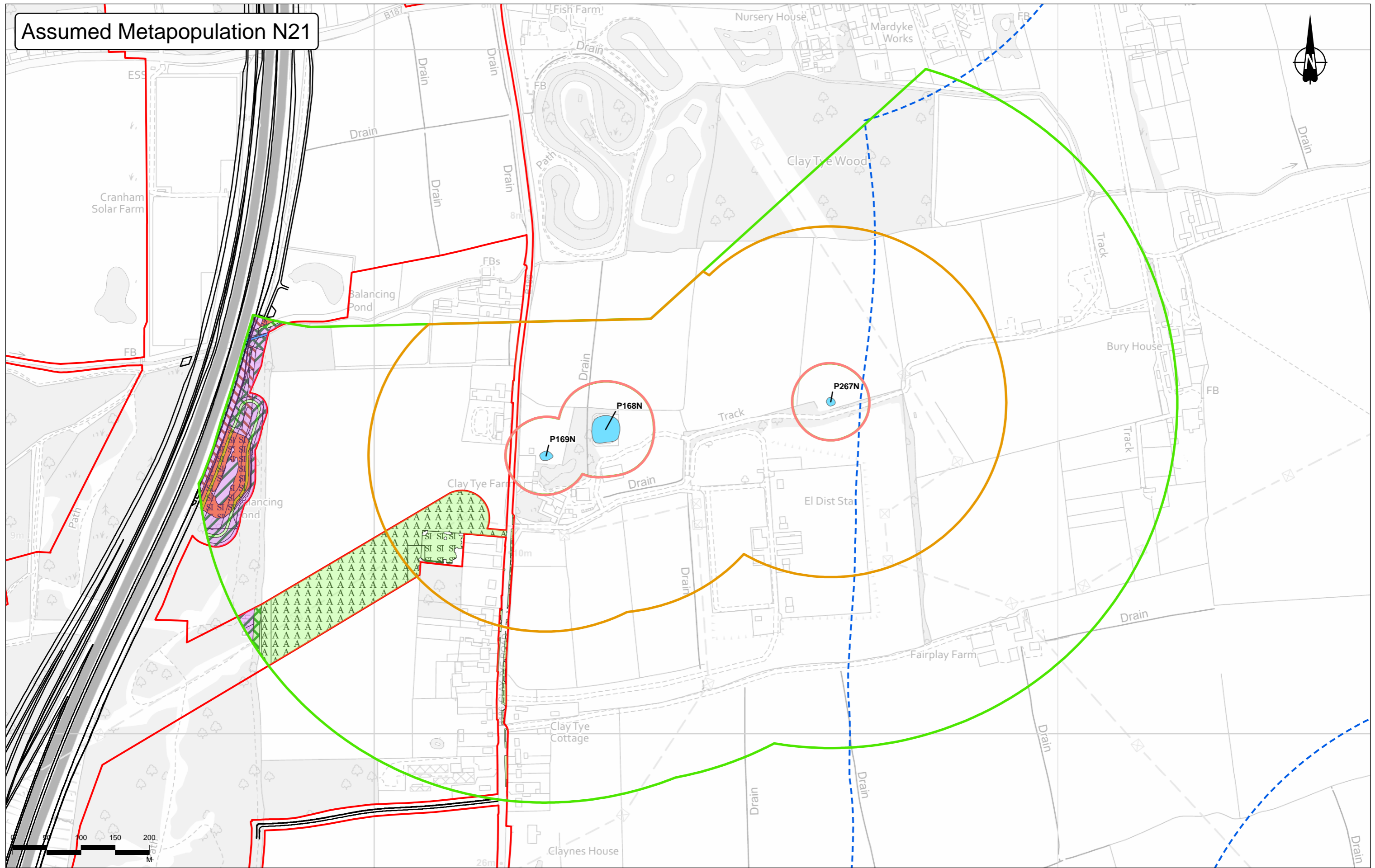


Client: national highways

Project: LOWER THAMES CROSSING

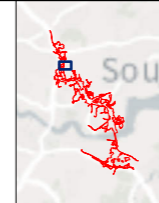
Status	DCO APPLICATION	Original Size	A3	Revision	P03
Application Document Number	TR010032/APP/6.3	Scale	1:5,000		
Drawing Title	Figure D - Impact Map Metapopulation N20				
	Page 32 of 38				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE0000000-DR-LE-60026				

# Assumed Metapopulation N21



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<table border="1"> <tr> <th>Rev</th> <th>Status</th> <th>Rev. Date</th> <th>Purpose of revision</th> <th>Drawn</th> <th>Chkd</th> <th>Apprv'd</th> </tr> <tr> <td>P03</td> <td>S9</td> <td>10/05/2023</td> <td>Natural England comments</td> <td>CD</td> <td>SM</td> <td>BF</td> </tr> </table>	Rev	Status	Rev. Date	Purpose of revision	Drawn	Chkd	Apprv'd	P03	S9	10/05/2023	Natural England comments	CD	SM	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chkd	Apprv'd								
P03	S9	10/05/2023	Natural England comments	CD	SM	BF								

<b>Legend</b> <ul style="list-style-type: none"> <li>Order Limits</li> <li>Route alignment</li> <li>GCN survey area</li> <li>Ponds</li> <li>Ponds</li> <li>50m pond buffer</li> </ul>	<ul style="list-style-type: none"> <li>250m pond buffer</li> <li>500m pond buffer</li> </ul> <b>Habitat Impact Category</b> <ul style="list-style-type: none"> <li>Permanent habitat loss (landscaping)</li> <li>Permanent habitat loss (alignment)</li> <li>Temporary habitat loss</li> </ul>	<b>Phase 1 Habitat</b> <ul style="list-style-type: none"> <li>Broad-leaved semi-natural woodland</li> <li>Broad-leaved plantation woodland</li> <li>Dense/continuous scrub</li> <li>Semi-improved neutral grassland</li> <li>Improved grassland</li> <li>Poor semi-improved grassland</li> </ul>	<ul style="list-style-type: none"> <li>Tall ruderal</li> <li>Running water</li> <li>Arable</li> <li>Caravan site</li> <li>Other habitat</li> </ul>
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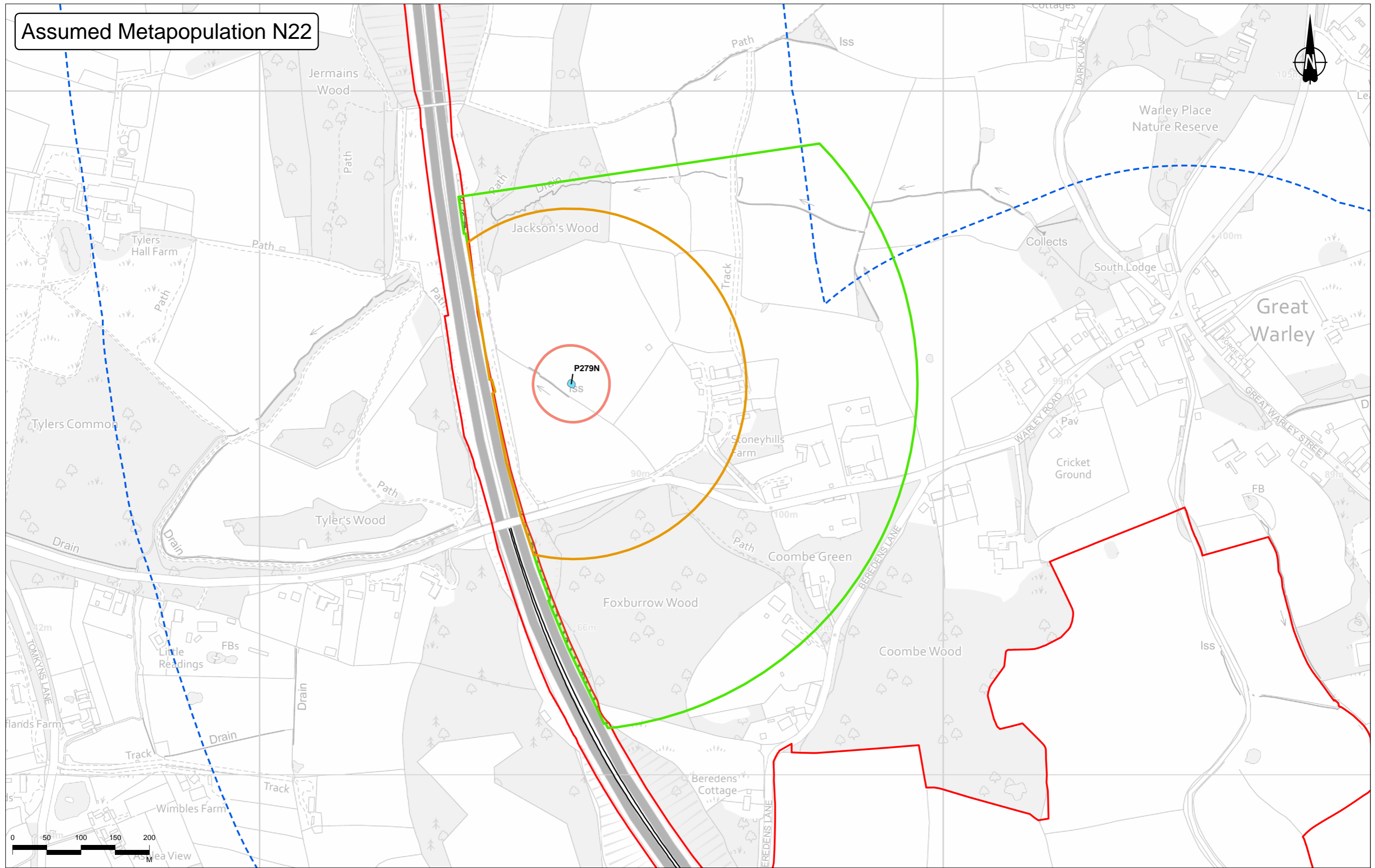


Client: **national highways**

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Status	DCO APPLICATION	Original Size	A3	Revision	P03
Application Document Number	TR010032/APP/6.3	Scale	1:5,000		
Drawing Title	Figure D - Impact Map Assumed Metapopulation N21 Page 33 of 38				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE0000000-DR-LE-60026				

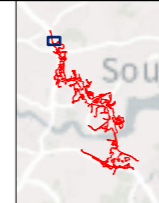
# Assumed Metapopulation N22



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

Legend		Habitat Impact Category	Phase 1 Habitat
	Order Limits		
	Route alignment		
	GCN survey area		
	Ponds		
	50m pond buffer		
	250m pond buffer		
	500m pond buffer		

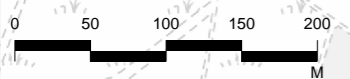
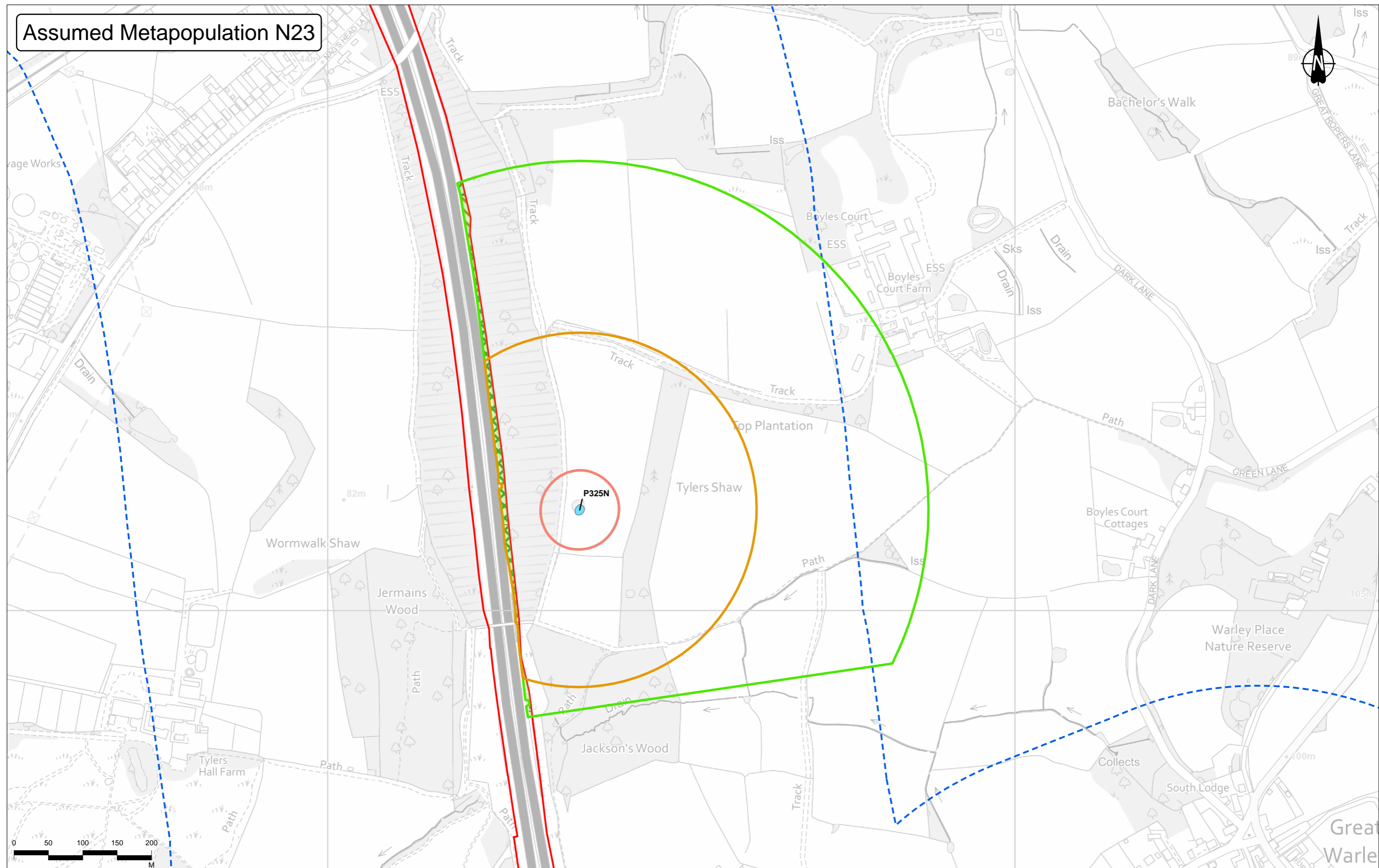


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Status	DCO APPLICATION	Original Size	A3	Revision	P03
Application Document Number	TR010032/APP/6.3	Scale	1:5,000		
Drawing Title	Figure D - Impact Map Assumed Metapopulation N22				
Page 34 of 38					
Drawing Number	HE540039-CJV-EBD-SZP_EGNE0000000-DR-LE-60026				

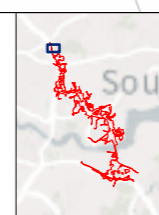
# Assumed Metapopulation N23



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

Legend		Habitat Impact Category	Phase 1 Habitat
	Order Limits		
	Ponds		
	Route alignment		
	GCN survey area		
	Ponds		
	50m pond buffer		
	250m pond buffer		
	500m pond buffer		

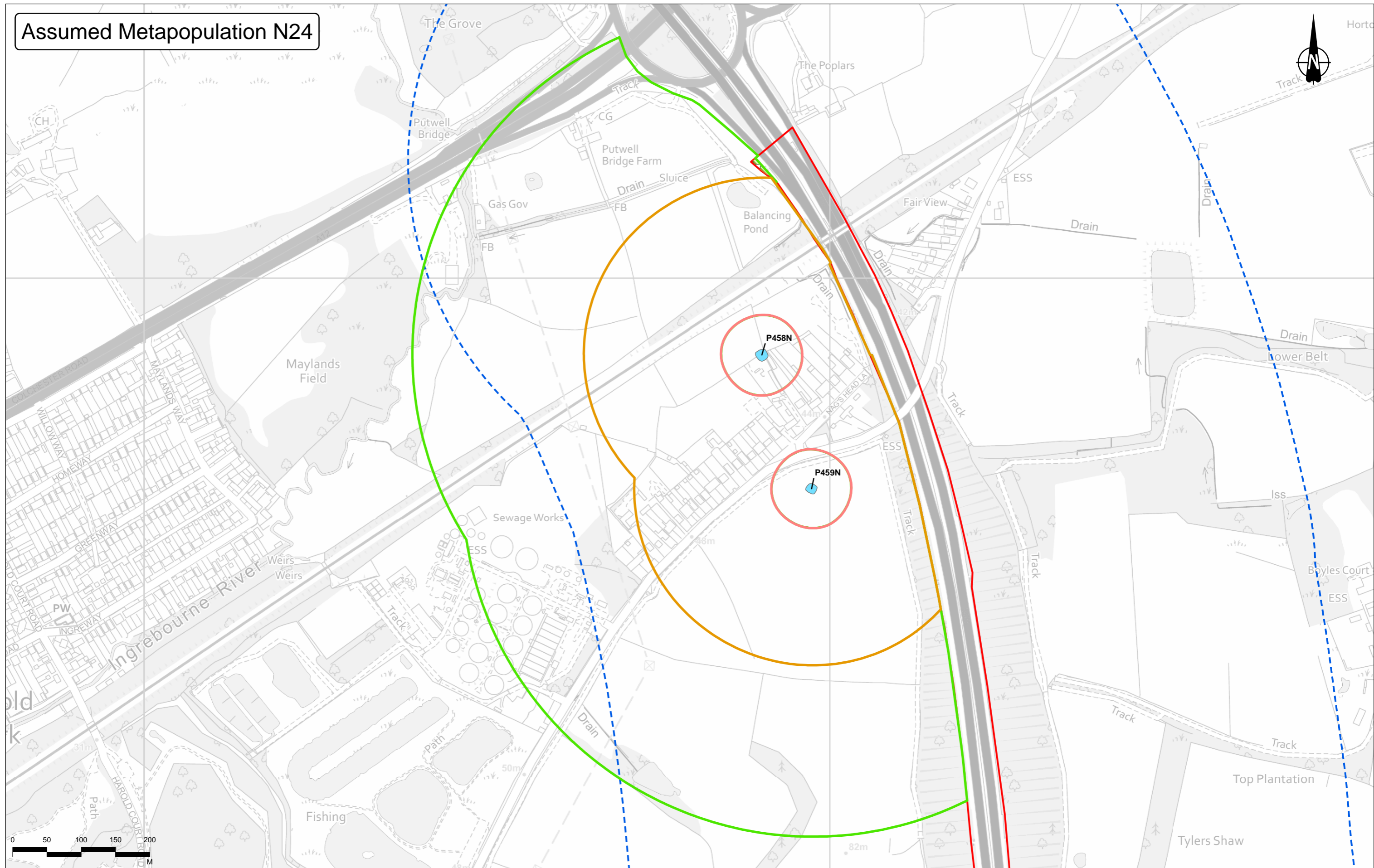


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Status	DCO APPLICATION	Original Size	A3	Revision	P03
Application Document Number	TR010032/APP/6.3	Scale	1:5,000		
Drawing Title	Figure D - Impact Map Assumed Metapopulation N23 Page 35 of 38				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60026				

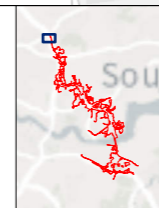
# Assumed Metapopulation N24



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

Legend		Habitat Impact Category	Phase 1 Habitat
	Order Limits		
	Route alignment		
	GCN survey area		
	Ponds		
	50m pond buffer		
	250m pond buffer		
	500m pond buffer		

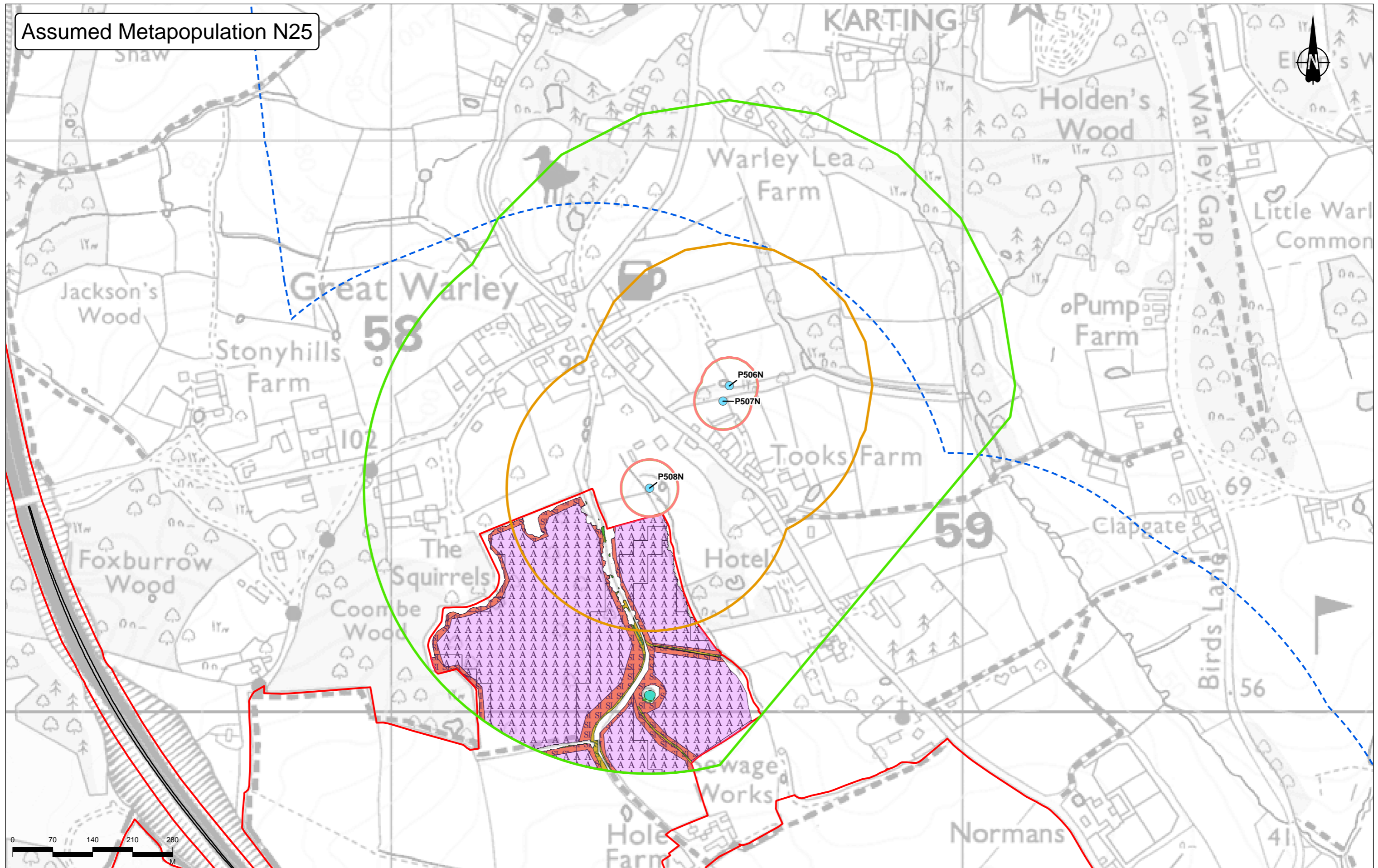


Client: **national highways**

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 D - Impact Map Assumed Metapopulation N24				
	Page 36 of 38				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE0000000-DR-LE-60026				

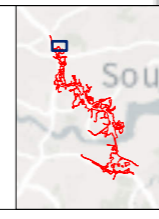
# Assumed Metapopulation N25



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### Legend

- |                 |                                      |                                    |                        |
|-----------------|--------------------------------------|------------------------------------|------------------------|
| Order Limits    | 50m pond buffer                      | Permanent habitat loss (alignment) | Standing water         |
| Route alignment | 250m pond buffer                     | Temporary habitat loss             | Running water          |
| GCN survey area | 500m pond buffer                     | <b>Phase 1 Habitat</b>             | Arable                 |
| Ponds           | <b>Habitat Impact Category</b>       | Broad-leaved semi-natural woodland | Dense/continuous scrub |
| Ponds           | Permanent habitat loss (landscaping) | Semi-improved neutral grassland    |                        |

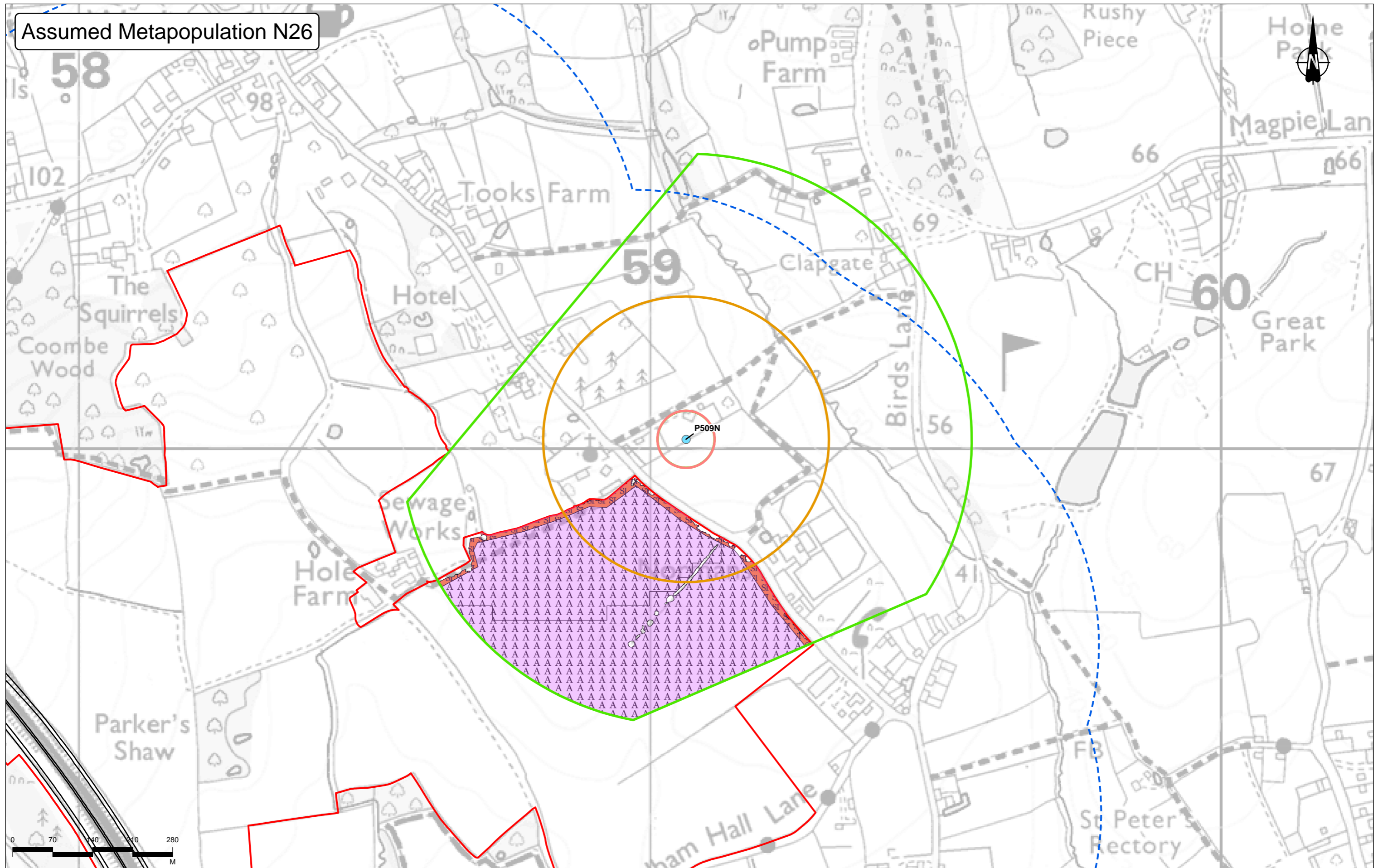


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 Project  
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Status	DCO APPLICATION	Original Size	A3	Revision	P03
Application Document Number	TR010032/APP/6.3	Scale	1:6,000		
Drawing Title	Figure D - Impact Map Assumed Metapopulation N25				
	Page 37 of 38				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE0000000-DR-LE-60026				

P03	S9	10/05/2023	Natural England comments	CD	SM	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chkd	Apprvd

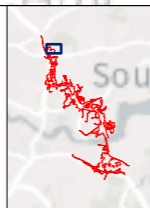
Assumed Metapopulation N26



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

Legend		Habitat Impact Category	Phase 1 Habitat
	Order Limits		
	Route alignment		
	GCN survey area		
	Ponds		
	50m pond buffer		
	250m pond buffer		
	500m pond buffer		



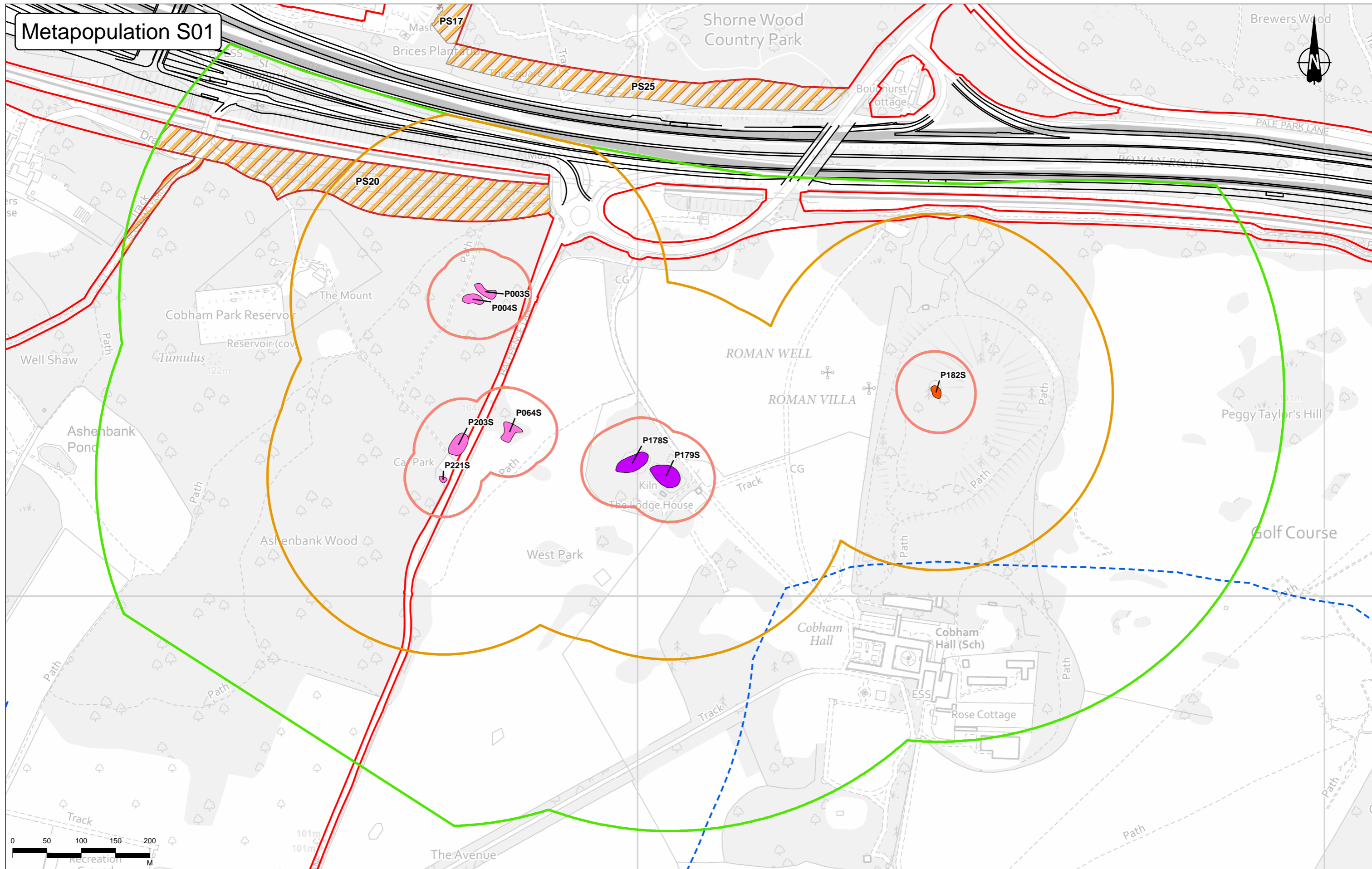
Client: national highways

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 D - Impact Map Assumed Metapopulation N26 Page 38 of 38				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE0000000-DR-LE-60026				



# Metapopulation S01

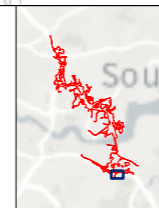


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Rev	Status	Rev. Date	Purpose of revision	Drawn	Checkd	Apprv'd
P03	S9	10/05/2023	Natural England comments	CD	SM	BF

Legend	
	Order Limits
	Route Alignment
	GCN Survey Area
	Mitigation Receptor Areas
	Mitigation Area
	Receptor Site
	Ponds Present - Conventional
	Present - eDNA
	Assumed present - Desk Study (No access)

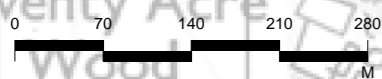
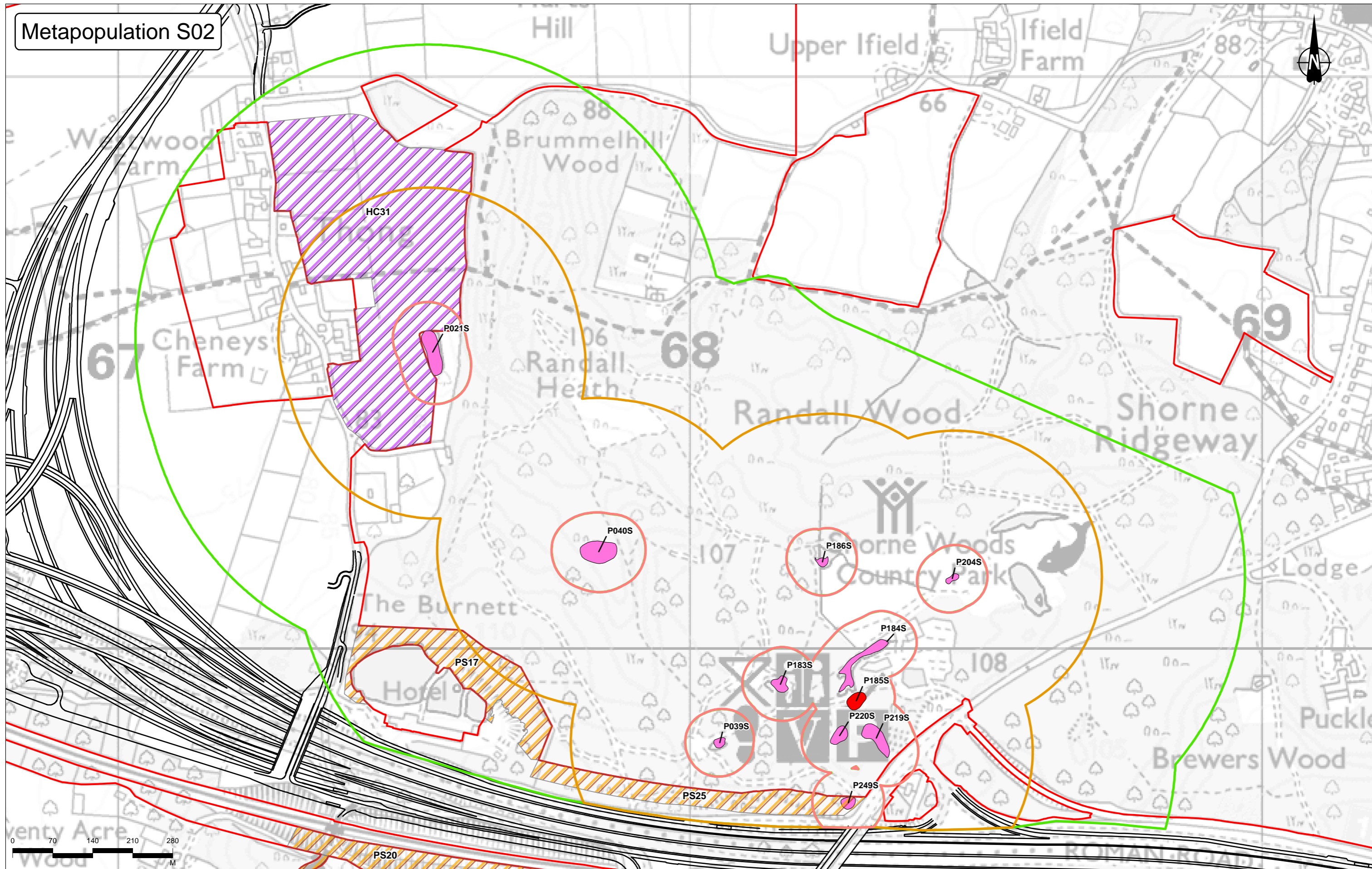
Pond buffers	
	50m pond buffer
	250m pond buffer
	500m pond buffer



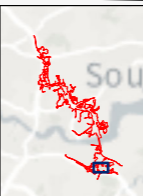
Client: **national highways**

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 E2 - Receptor Map Metapopulation S01 Page 1 of 21				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60027				



Legend		Pond buffers	
Order Limits	Receptor Site	50m pond buffer	
Route Alignment	<b>Ponds</b>	250m pond buffer	
GCN Survey Area	Present - Conventional	500m pond buffer	
<b>Mitigation Receptor Areas</b>	Assumed present - Conventional		
Mitigation Area			



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Status	DCO APPLICATION	Original Size	A3	Revision	P03
Application Document Number	TR010032/APP/6.3	Scale	1:6,000		
Drawing Title	Figure E2 - Receptor Map Metapopulation S02 Page 2 of 21				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60027				

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

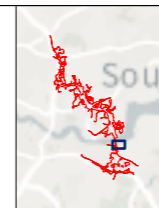
# Metapopulation S04



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

Legend		Pond Status, Survey Year		Pond buffers	
	Order Limits		Present - Incidental sighting (2017 & 2018)		50m pond buffer
	Route Alignment				250m pond buffer
	GCN Survey Area				500m pond buffer
	Mitigation Receptor Areas				
	Mitigation Area				
	Receptor Site				

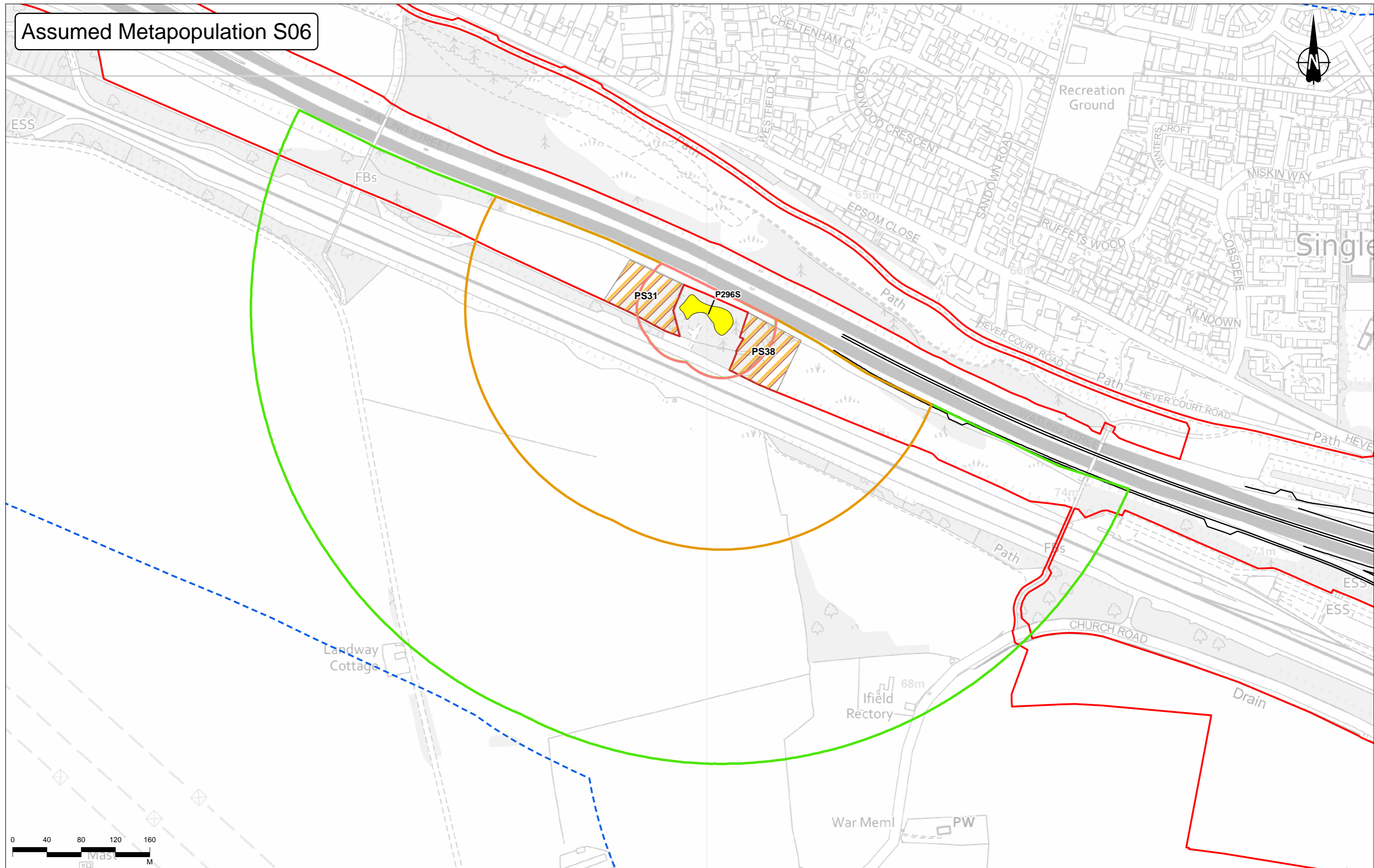


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Project  
**LOWER THAMES CROSSING**

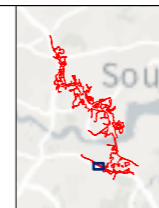
Status	DCO APPLICATION	Original Size	A3	Revision	P03
Application Document Number	TR010032/APP/6.3	Scale	1:5,000		
Drawing Title	Figure E2 - Receptor Map Metapopulation S04 Page 3 of 21				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE0000000-DR-LE-60027				

# Assumed Metapopulation S06



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

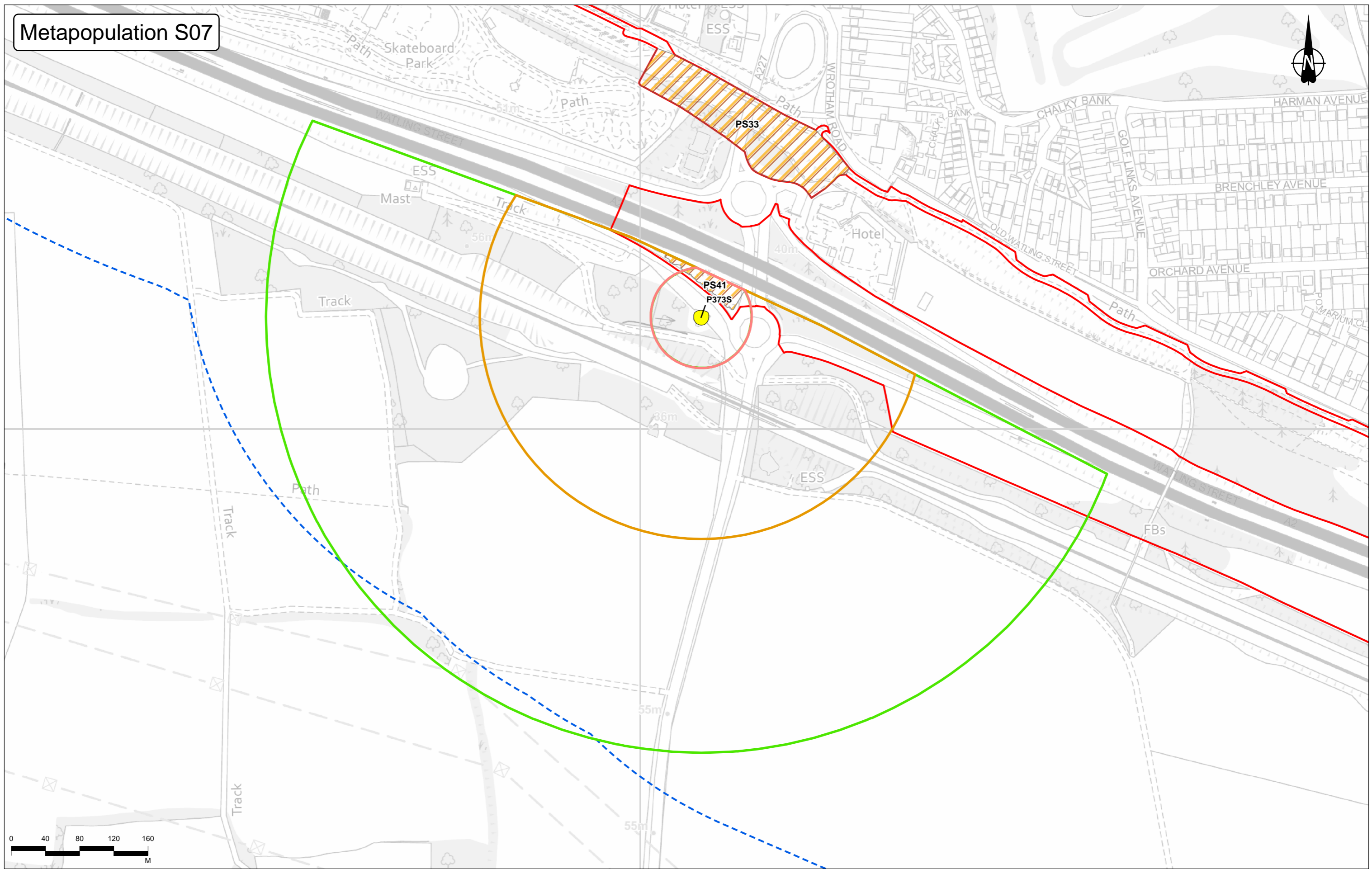
Legend			
	Order Limits		Receptor Site
	Route Alignment		Assumed present - No access
	GCN Survey Area		250m pond buffer
	Mitigation Receptor Areas		500m pond buffer
	Mitigation Area		50m pond buffer



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Status	DCO APPLICATION	Original Size	A3	Revision	P03
Application Document Number	TR010032/APP/6.3	Scale	1:4,000		
Drawing Title	Figure E2 - Receptor Map Assumed Metapopulation S06 Page 4 of 21				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60027				

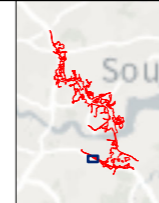
# Metapopulation S07



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

Legend		Pond buffers	
	Order Limits		Receptor Site
	GCN Survey Area		Ponds
	Mitigation Receptor Areas		50m pond buffer
	Mitigation Area		250m pond buffer
			500m pond buffer
			Assumed present - No access

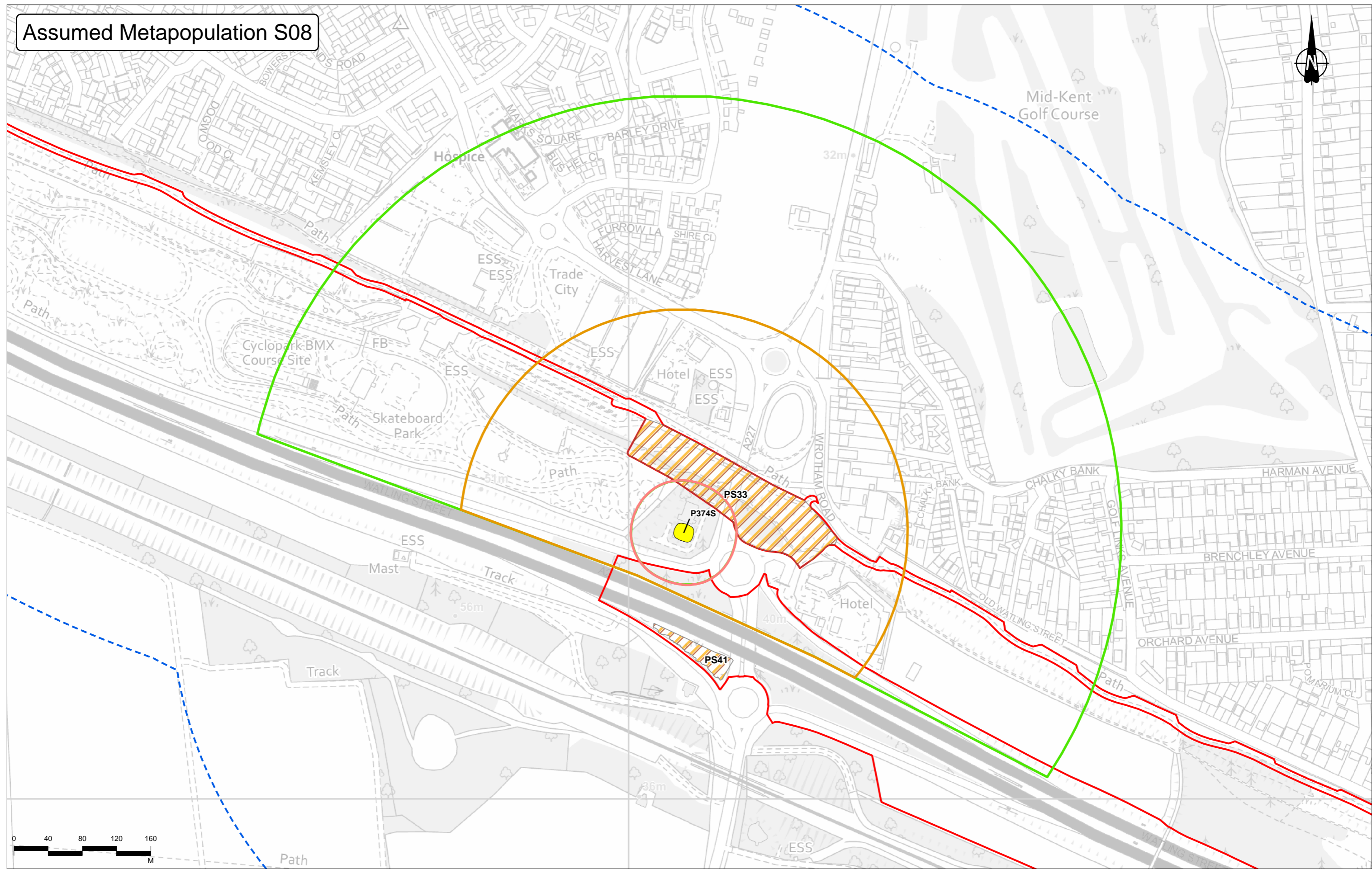


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Project  
**LOWER THAMES CROSSING**

Status	DCO APPLICATION	Original Size	A3	Revision	P03
Application Document Number	TR010032/APP/6.3	Scale	1:4,000		
Drawing Title	Figure E2 - Receptor Map Metapopulation S07 Page 5 of 21				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE0000000-DR-LE-60027				

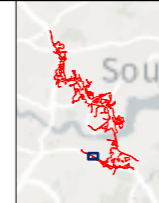
# Assumed Metapopulation S08



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

Legend		Pond buffers	
	Order Limits		Receptor Site
	GCN Survey Area		Assumed present - No access
	Mitigation Receptor Areas		50m pond buffer
	Mitigation Area		250m pond buffer
			500m pond buffer

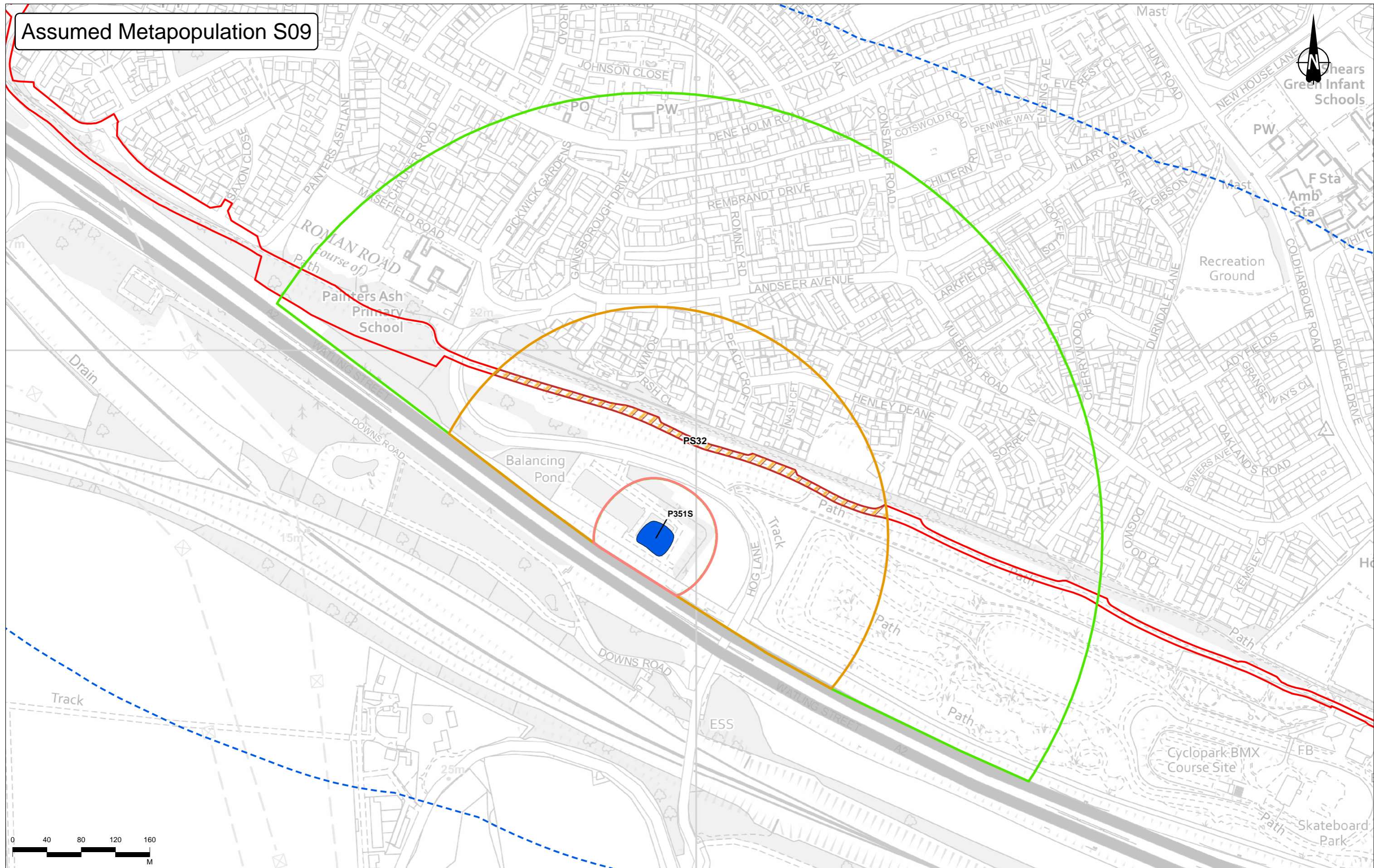


Client  
**national highways**

Project  
**LOWER THAMES CROSSING**

Status	DCO APPLICATION	Original Size	A3	Revision	P03
Application Document Number	TR010032/APP/6.3	Scale	1:4,000		
Drawing Title	Figure E2 - Receptor Map Assumed Metapopulation S08 Page 6 of 21				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE0000000-DR-LE-60027				

# Assumed Metapopulation S09

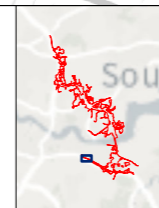


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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chkd	Appr'd
P03	S9	10/05/2023	Natural England comments	CD	SM	BF

Legend	
	Order Limits
	GCN Survey Area
	Receptor Site
	Assumed present - eDNA inconclusive
	Mitigation Area

Pond buffers	
	50m pond buffer
	250m pond buffer
	500m pond buffer

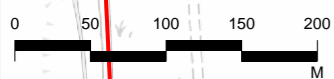
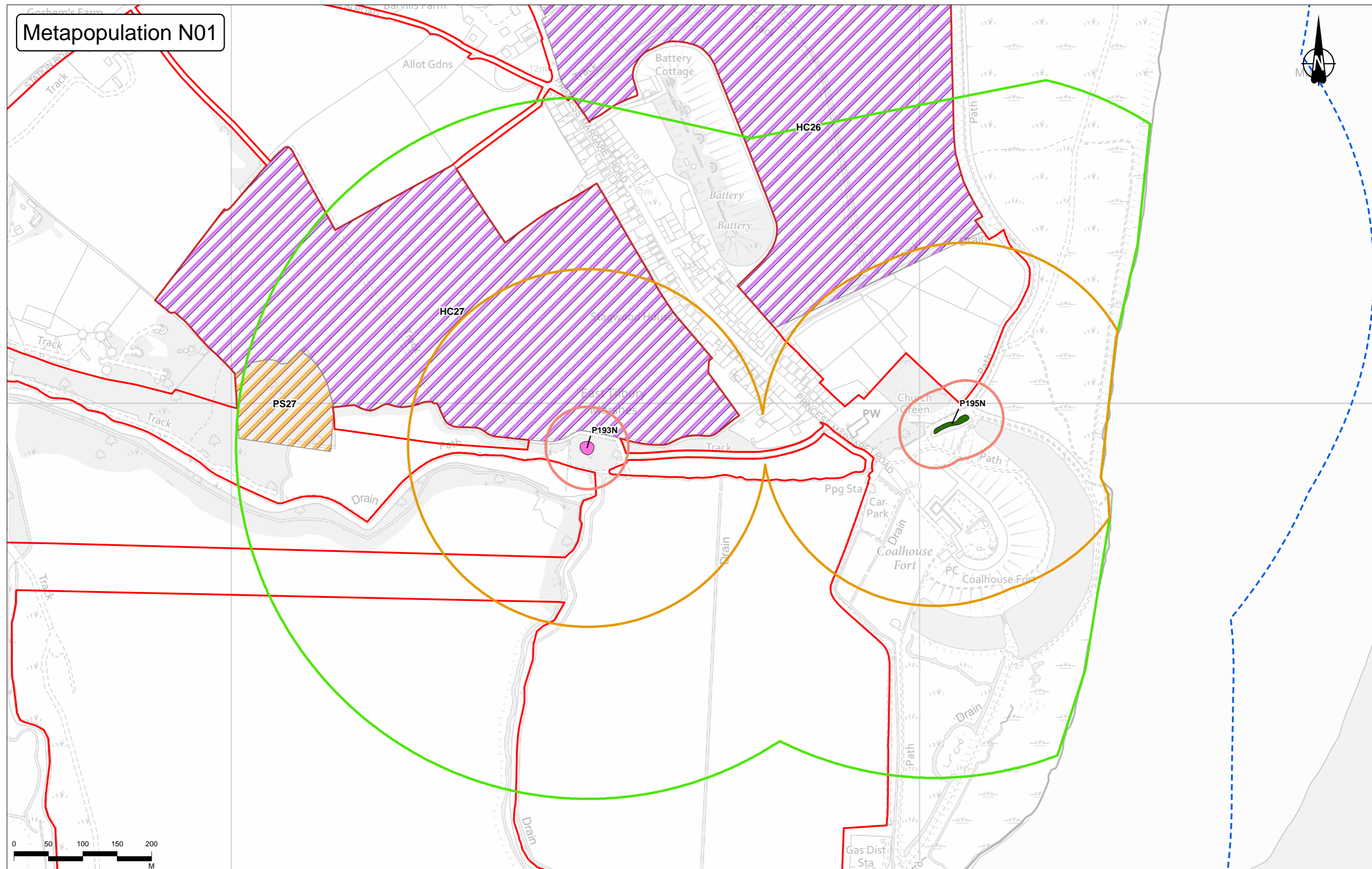


Client: national highways

Project: LOWER THAMES CROSSING

Status	DCO APPLICATION	Original Size	A3	Revision	P03
Application Document Number	TR010032/APP/6.3	Scale	1:4,000		
Drawing Title	Figure E2 - Receptor Map Assumed Metapopulation S09 Page 7 of 21				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE0000000-DR-LE-60027				

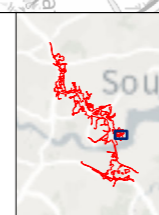
# Metapopulation N01



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

Legend		Pond buffers	
	Order Limits		50m pond buffer
	GCN Survey Area		250m pond buffer
	Mitigation Receptor Areas		500m pond buffer
	Present - Conventional		
	Assumed present - Unsurveyed		
	Receptor Site		



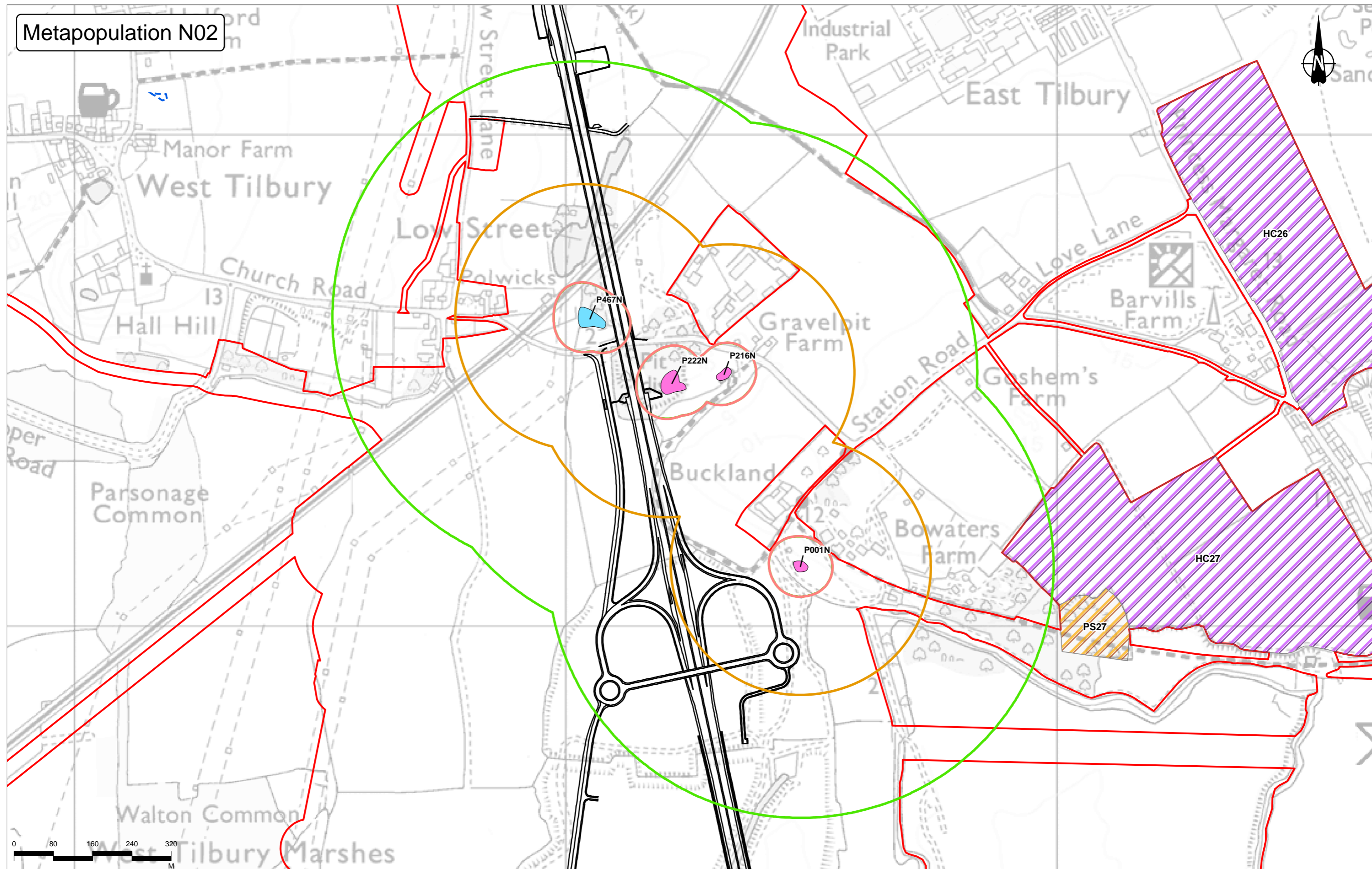
Client  
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**LOWER THAMES CROSSING**

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 Metapopulation N01 Page 8 of 21				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60027				



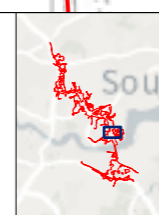
Metapopulation N02



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

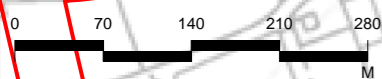
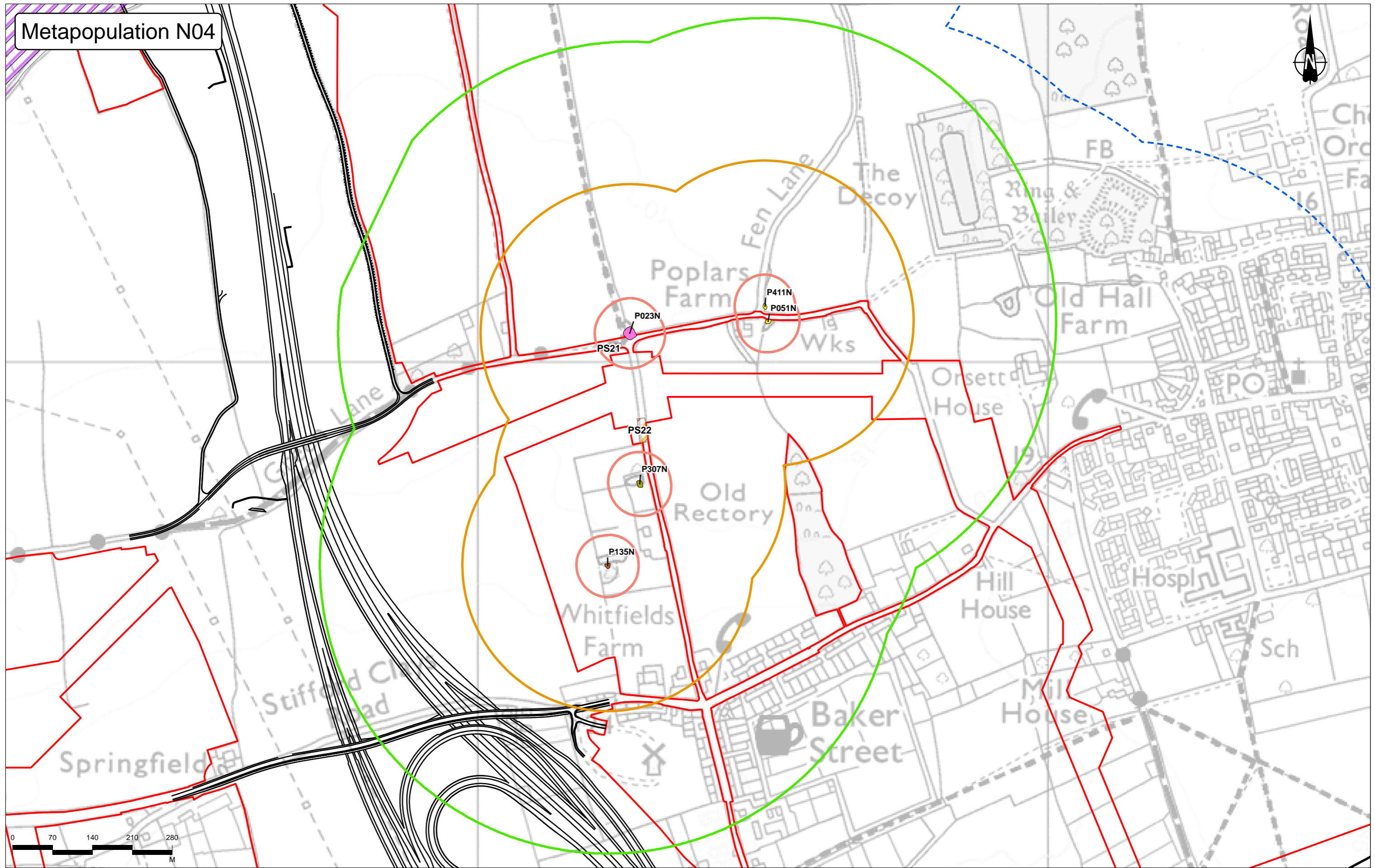
Legend		Pond buffers	
	Order Limits		50m pond buffer
	Route Alignment		250m pond buffer
	GCN Survey Area		500m pond buffer
	Mitigation Receptor Areas		Present - Conventional
	Mitigation Area		Assumed present - eDNA
	Receptor Site		



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Status	DCO APPLICATION	Original Size	A3	Revision	P03
Application Document Number	TR010032/APP/6.3	Scale	1:7,000		
Drawing Title	Figure E2 - Receptor Map Metapopulation N02 Page 9 of 21				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60027				

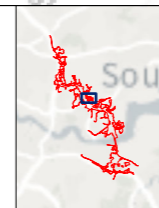
Metapopulation N04



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

Legend		Pond buffers	
	Order Limits		Present - Desk Study
	Route Alignment		Present - Incidental sighting
	GCN Survey Area		Assumed present - No access
	Mitigation Area		50m pond buffer
	Receptor Site		250m pond buffer
	Ponds		500m pond buffer

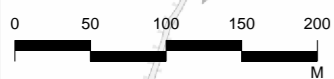
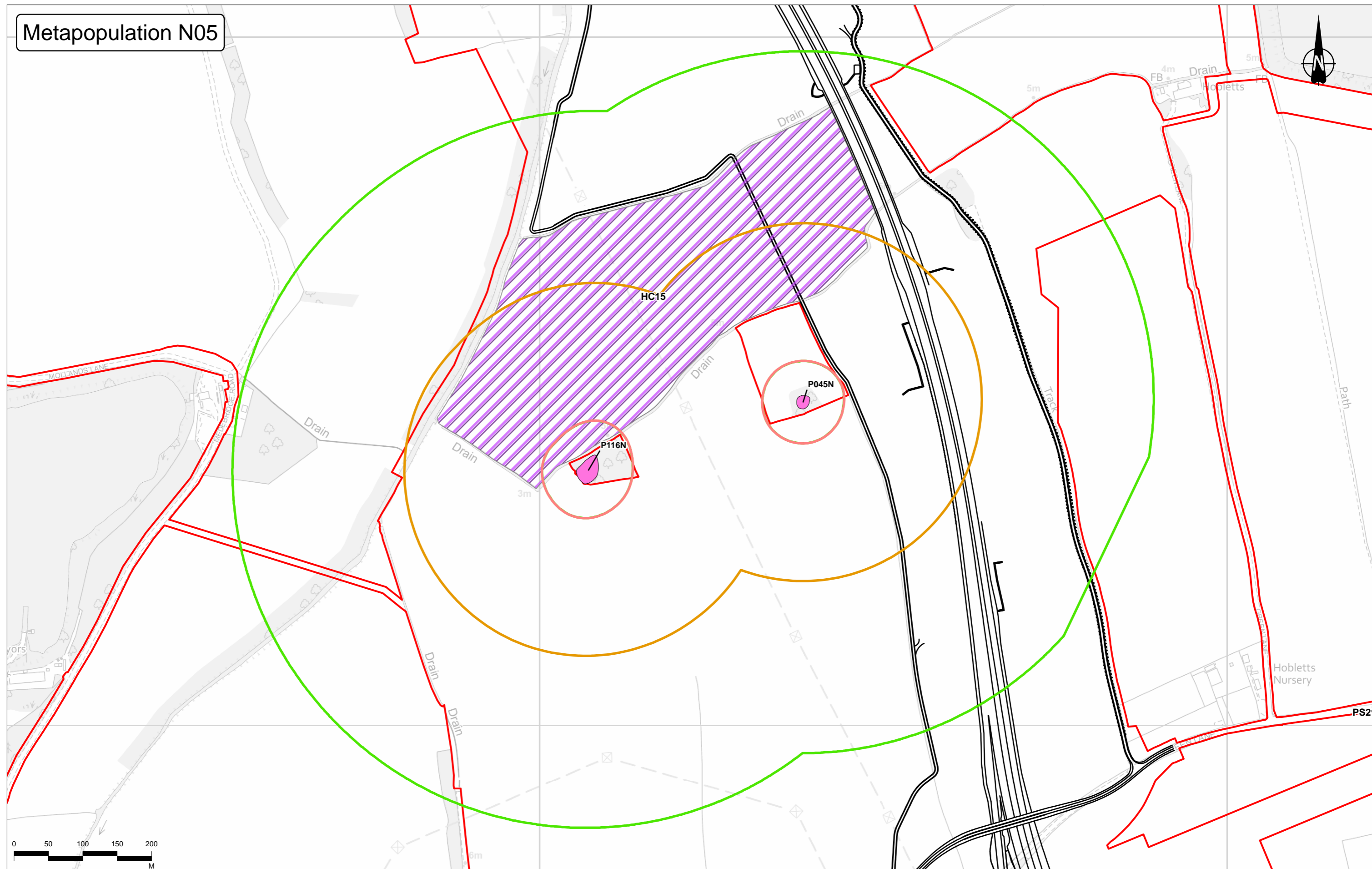


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Status	DCO APPLICATION	Original Size	A3	Revision	P03
Application Document Number	TR010032/APP/6.3	Scale	1:6,000		
Drawing Title	Figure E2 - Receptor Map Metapopulation N04 Page 10 of 21				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60027				

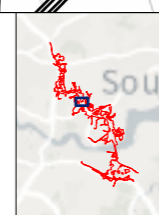
# Metapopulation N05



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

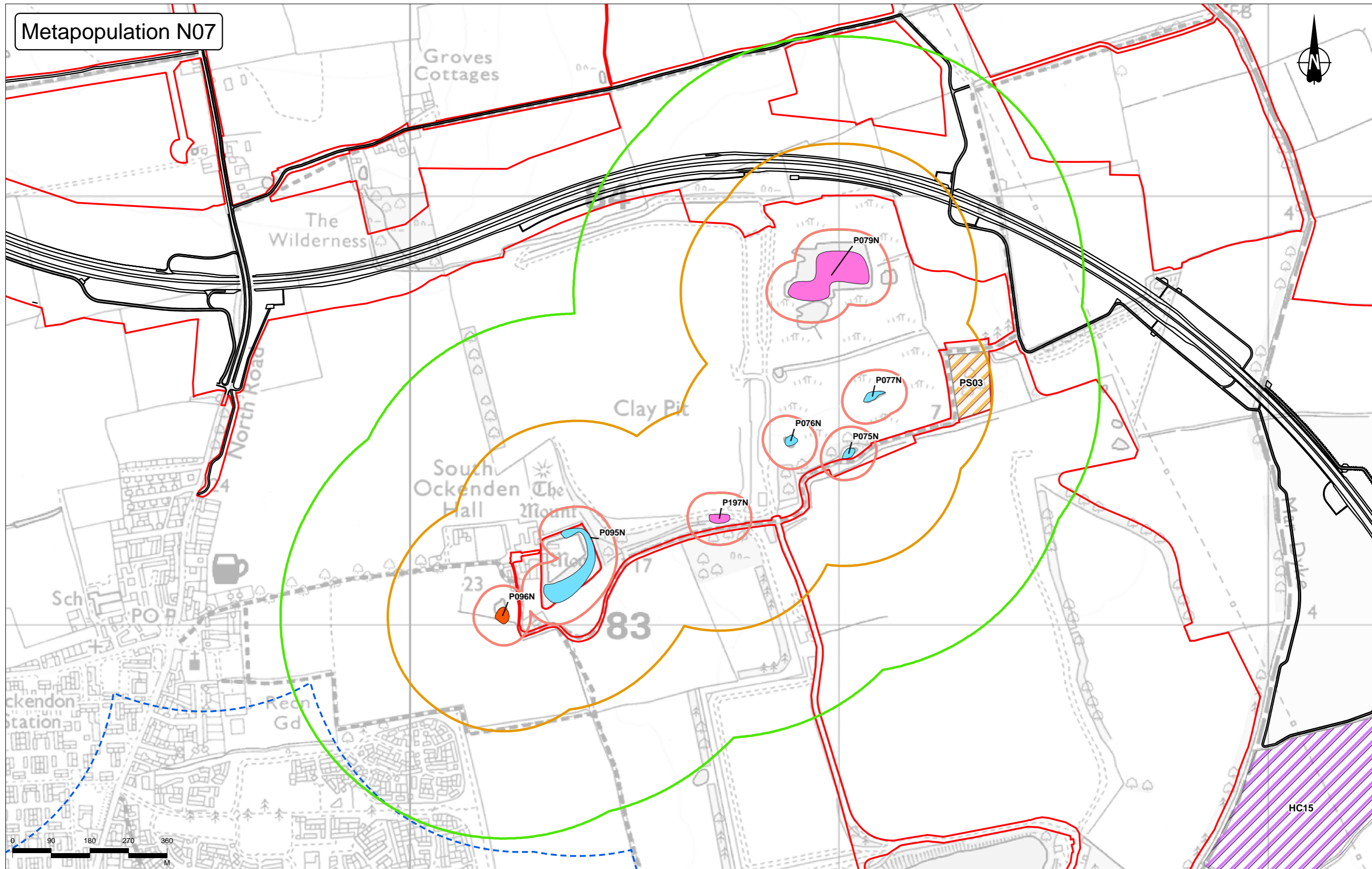
Legend		Mitigation Receptor Areas	Ponds	Pond buffers
	Order Limits			
	Route Alignment			
	GCN Survey Area			



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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 Metapopulation N05 Page 11 of 21				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60027				

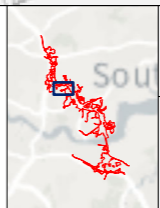
# Metapopulation N07



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

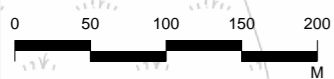
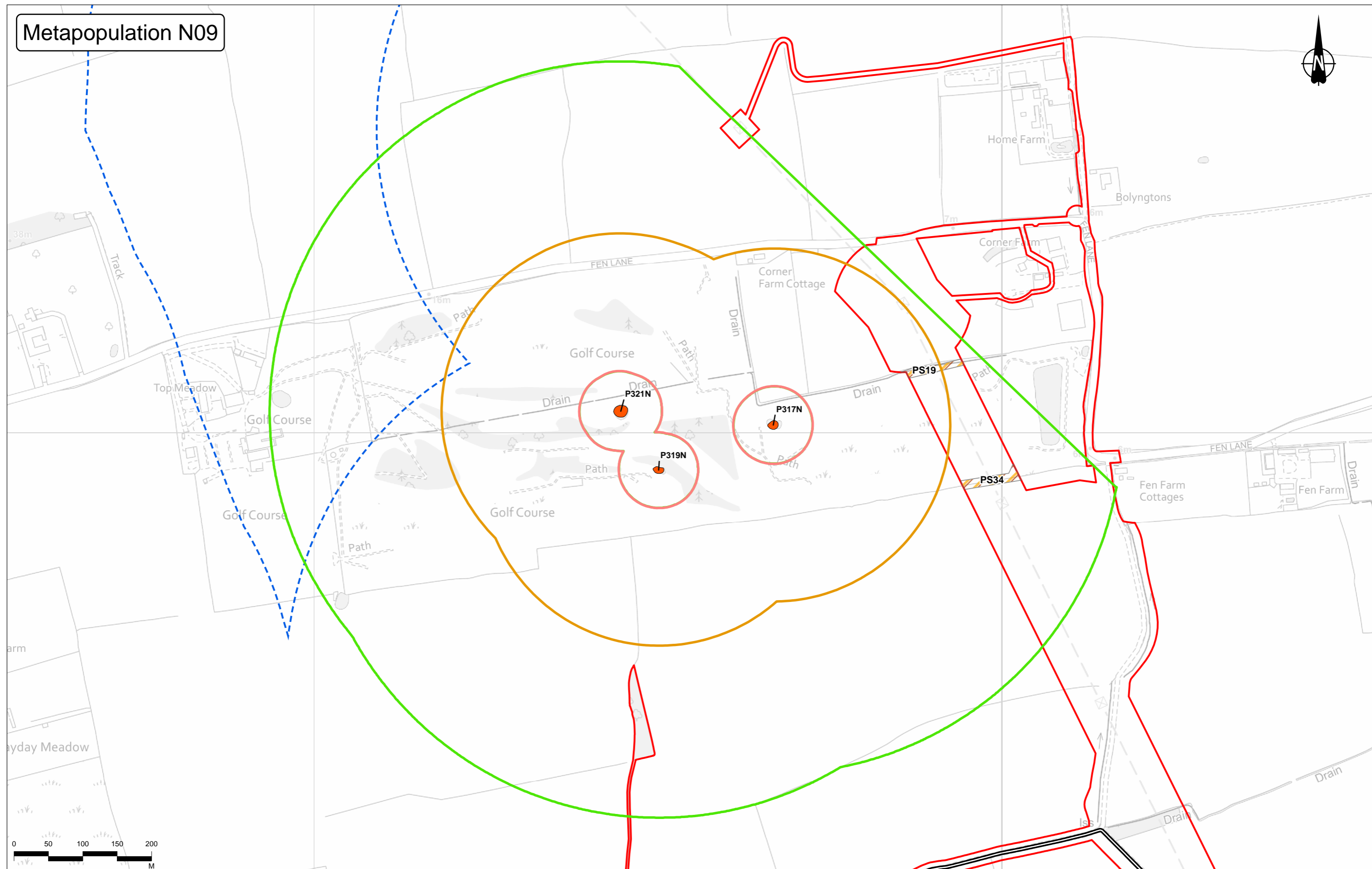
Legend		Mitigation Receptor Areas	Ponds	Pond buffers			
	Order Limits		Mitigation Area		Present - Conventional		50m pond buffer
	Route Alignment		Receptor Site		Present - eDNA		250m pond buffer
	GCN Survey Area				Assumed present - eDNA		500m pond buffer



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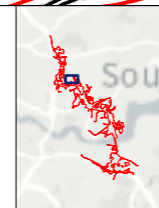
Status	DCO APPLICATION	Original Size	A3	Revision	P03
Application Document Number	TR010032/APP/6.3	Scale	1:8,000		
Drawing Title	Figure E2 - Receptor Map Metapopulation N07 Page 12 of 21				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60027				

# Metapopulation N09



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Legend		Mitigation Receptor Areas		Ponds		Pond buffers	
	Order Limits		Mitigation Area		Present - eDNA		250m pond buffer
	Route Alignment		Receptor Site		50m pond buffer		500m pond buffer
	GCN Survey Area						



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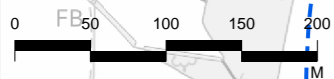
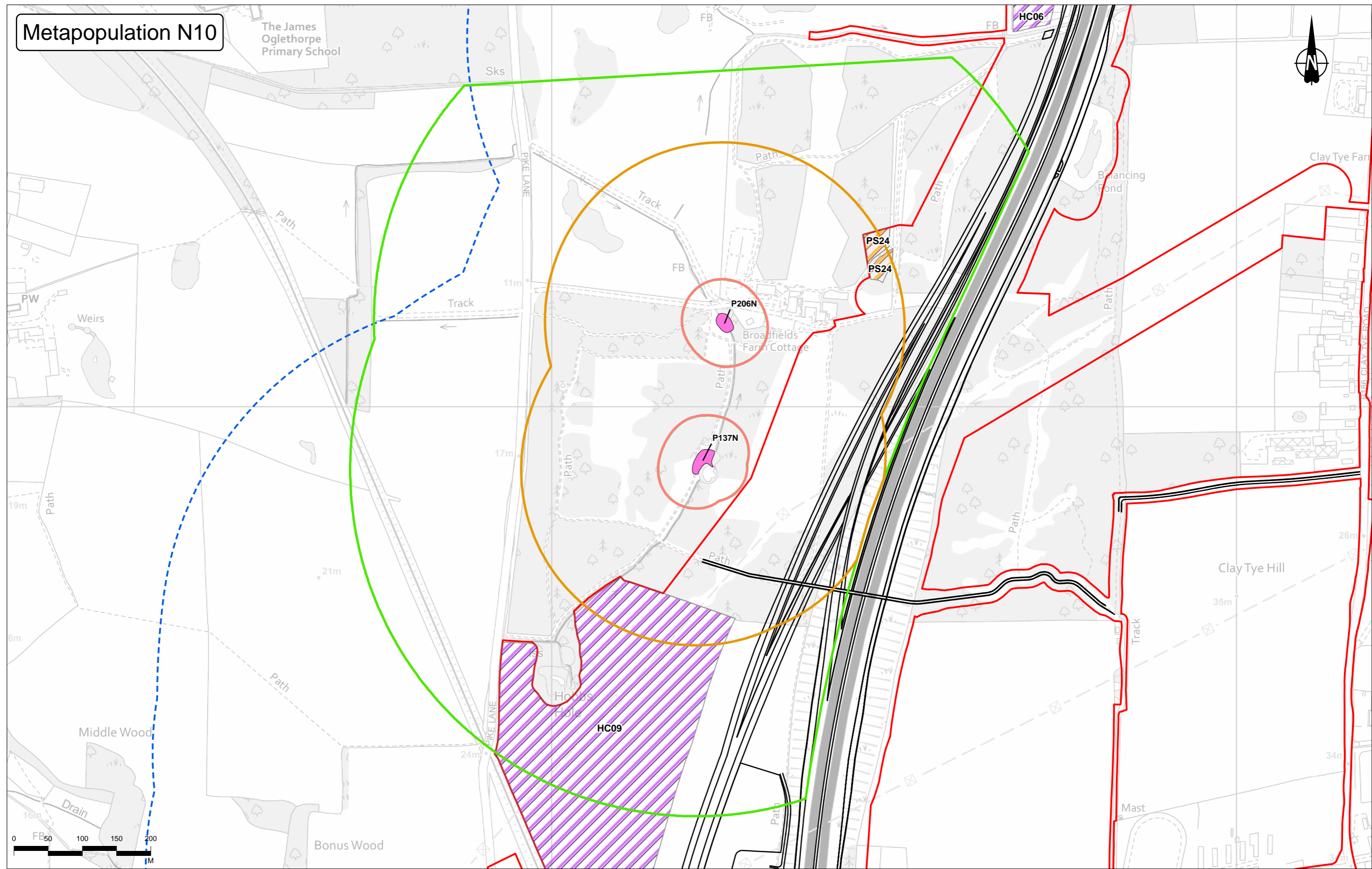
Project  
**LOWER THAMES CROSSING**

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 Metapopulation N09 Page 13 of 21				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE0000000-DR-LE-60027				

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

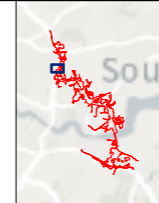
# Metapopulation N10

The James Oglethorpe Primary School



### Legend

- Order Limits
- Route Alignment
- GCN Survey Area
- Mitigation Area
- Receptor Site
- Ponds
- Present - Conventional
- Pond buffers
- 50m pond buffer
- 250m pond buffer
- 500m pond buffer



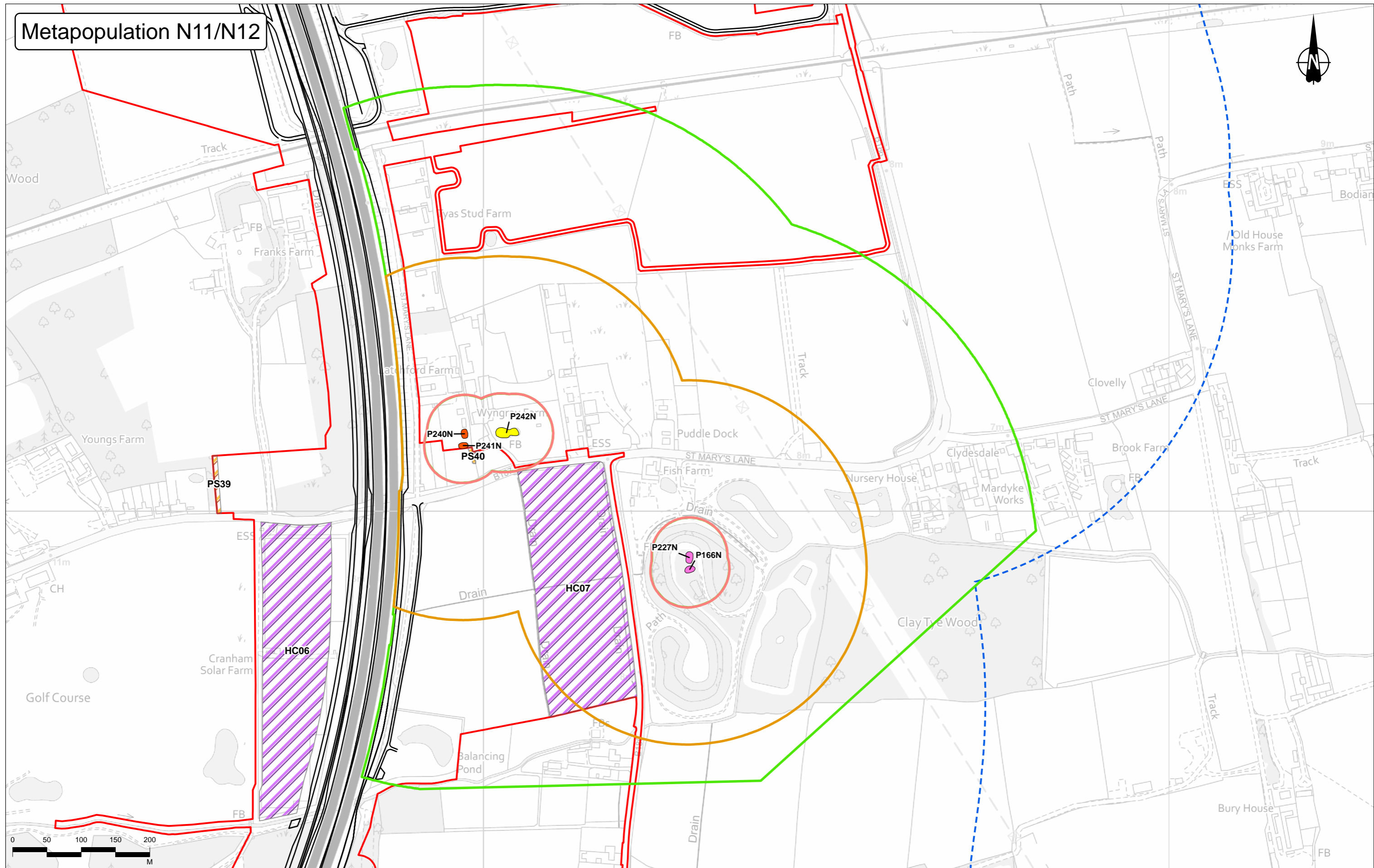
Client  
**national highways**

Project  
**LOWER THAMES CROSSING**

Status	DCO APPLICATION	Original Size	Revision
Application Document Number	TR010032/APP/6.3	A3	P03
Drawing Title	Figure E2 - Receptor Map Metapopulation N10 Page 14 of 21		
Drawing Number	HE540039-CJV-EBD-SZP_EGNE0000000-DR-LE-60027		

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

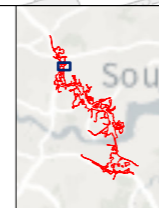
# Metapopulation N11/N12



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

Legend		Mitigation Receptor Areas	Ponds	Pond buffers
	Order Limits			
	Route Alignment			
	GCN Survey Area			



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**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 Metapopulation N11/N12 Page 15 of 21				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60027				

Metapopulation N13

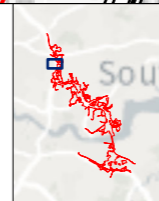


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**Legend**

- |                 |                 |                             |                  |
|-----------------|-----------------|-----------------------------|------------------|
| Order Limits    | Mitigation Area | Present - Conventional      | 50m pond buffer  |
| Route Alignment | Receptor Site   | Assumed present - No access | 250m pond buffer |
| GCN Survey Area |                 |                             | 500m pond buffer |

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



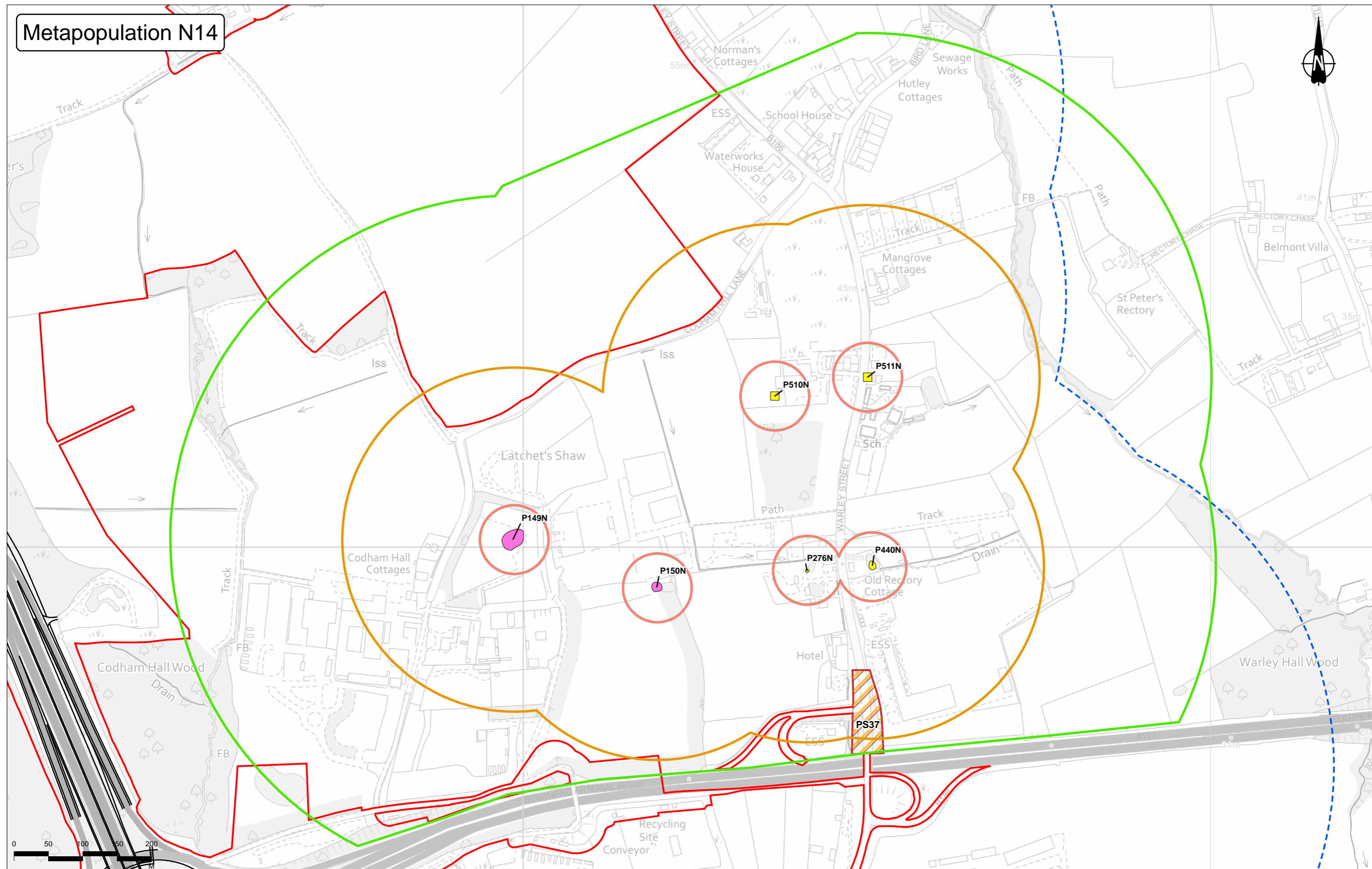
Client  
**national highways**

Project  
**LOWER THAMES CROSSING**

Status	DCO APPLICATION	Original Size	A3	Revision	P03
Application Document Number	TR010032/APP/6.3	Scale	1:6,000		
Drawing Title	Figure E2 - Receptor Map Metapopulation N13 Page 16 of 21				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60027				



# Metapopulation N14

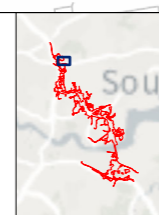


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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chkd	Apprv'd
P03	S9	10/05/2023	Natural England comments	CD	SM	BF

**Legend**

- Order Limits (Red outline)
- Route Alignment (Black line)
- GCN Survey Area (Blue dashed line)
- Mitigation Receptor Areas (Purple hatched area)
- Mitigation Area (Purple outline)
- Receptor Site (Orange hatched area)
- Pond Status, Survey Year**
  - Assumed present - No access (Yellow square)
  - Present - Conventional (Pink circle)
- Pond buffers**
  - 50m pond buffer (Red outline)
  - 250m pond buffer (Orange outline)
- 500m pond buffer (Green outline)

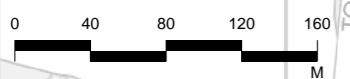
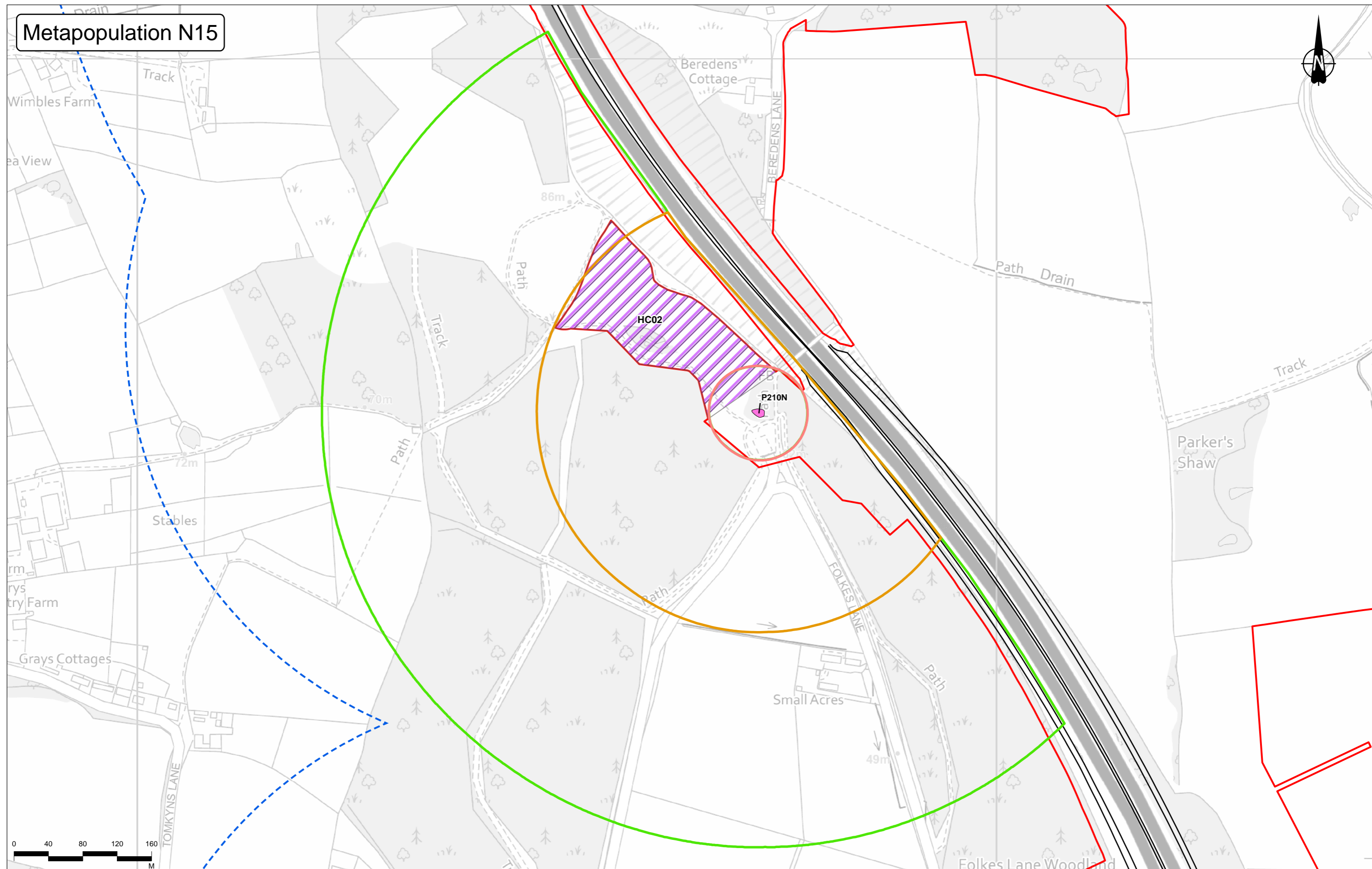


Client: **national highways**

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 Metapopulation N14 Page 17 of 21				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60027				

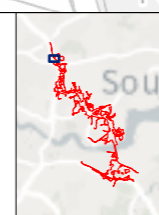
# Metapopulation N15



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

Legend		Mitigation Receptor Areas	Ponds	Pond buffers
	Order Limits			
	Route Alignment			
	GCN Survey Area			

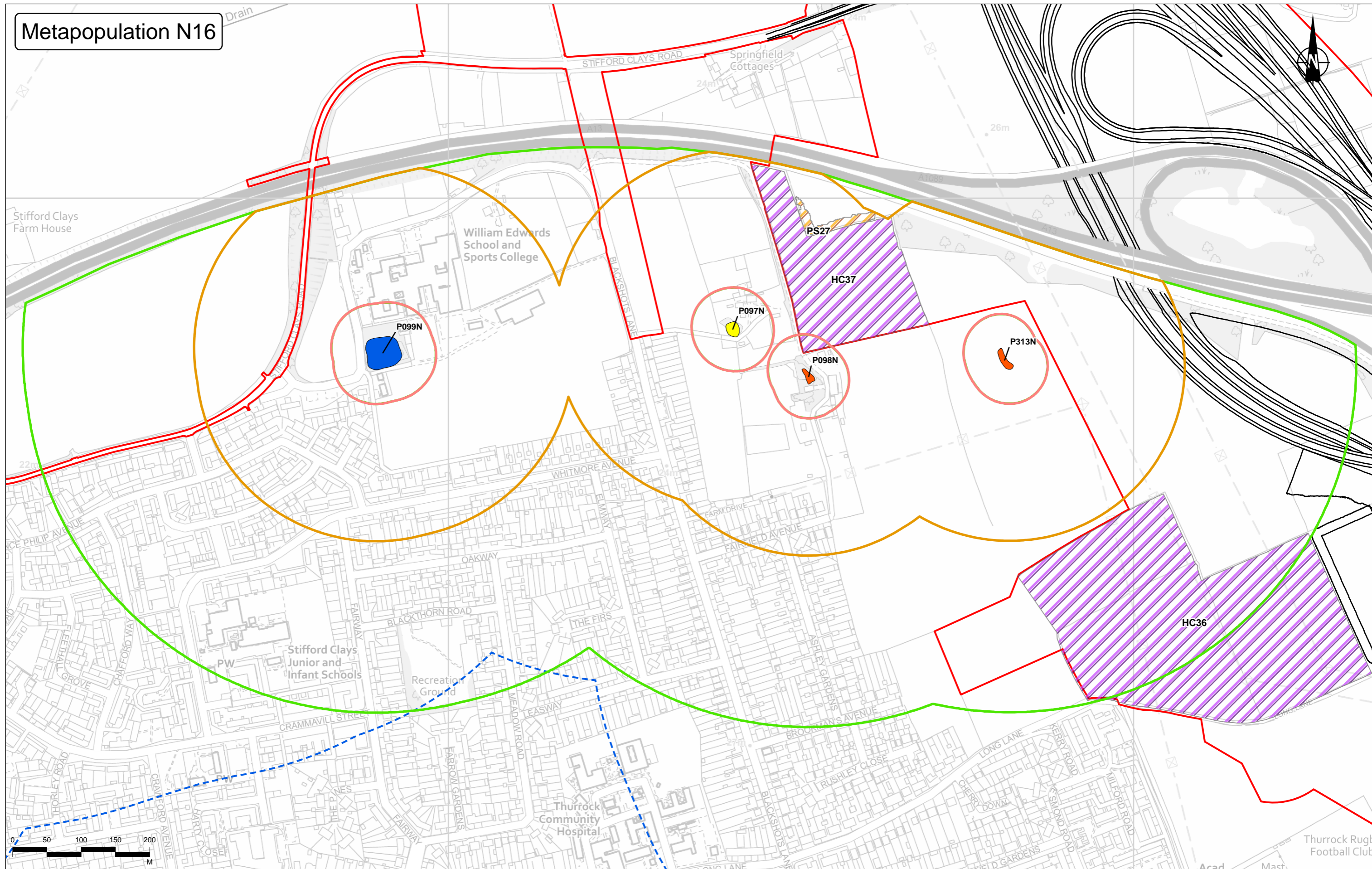


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**national highways**

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**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 E2 - Receptor Map Metapopulation N15 Page 18 of 21				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60027				

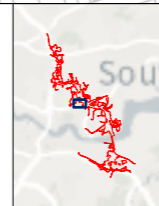
# Metapopulation N16



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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chkd	Apprvd
P03	S9	10/05/2023	Natural England comments	CD	SM	BF

- Legend**
- Order Limits
  - Route Alignment
  - GCN Survey Area
  - Mitigation Receptor Areas
  - Mitigation Area
  - Receptor Site
  - Ponds**
  - Present - eDNA
  - Assumed present - No access
  - Assumed present - eDNA inconclusive
  - 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 E2 - Receptor Map Metapopulation N16 Page 19 of 21				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60027				

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