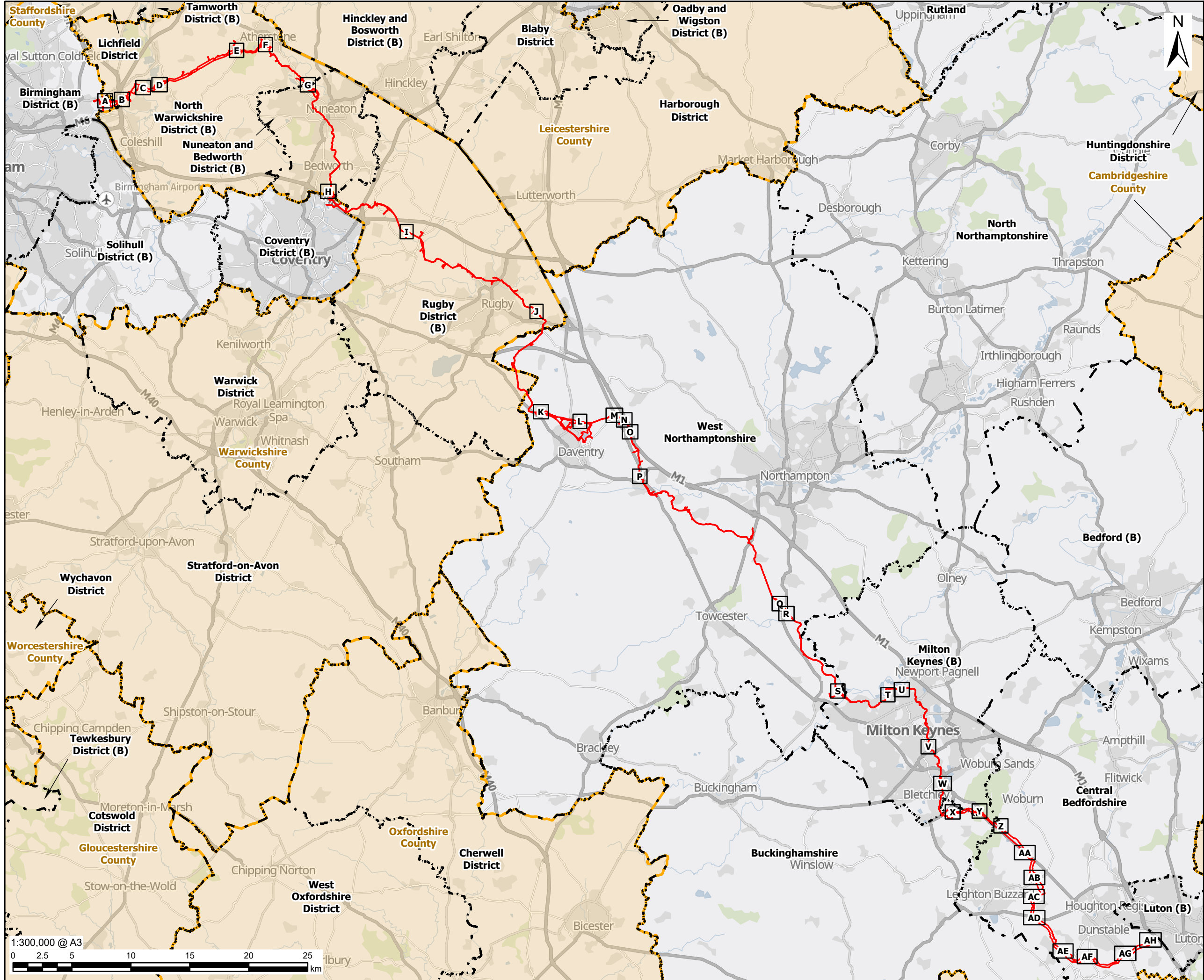


Appendix 19-PD-3: Vibration Risk



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LEGEND

- Preliminary Order Limits
- District Boundary
- County Boundary
- Sheet Extent

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- Contains data from OS Zoomstack
- Map sheets are based on Vibration Sources and Vibration Map Isochrones across the Scheme.

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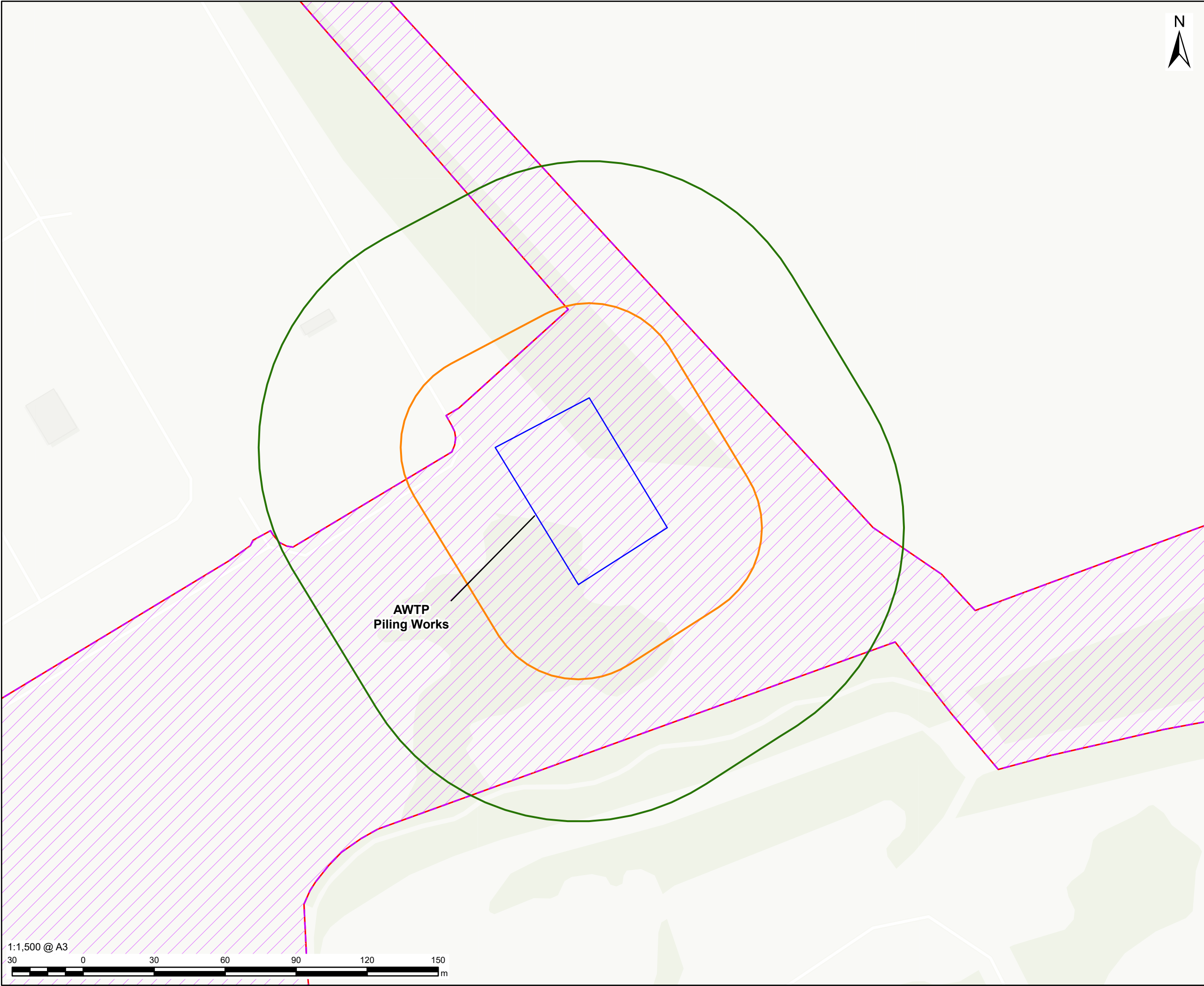
60720432

FIGURE TITLE

Vibration Risk - Overview

FIGURE NUMBER

Figure 19-PD-3



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LEGEND

-  Part 1a
-  Preliminary Order Limits
-  Area of Indicative Vibration
Generating Activities
-  LOAEL Buffer (100m from Vibration
Generating Activities)
-  SOAEL Buffer (40m from Vibration
Generating Activities)



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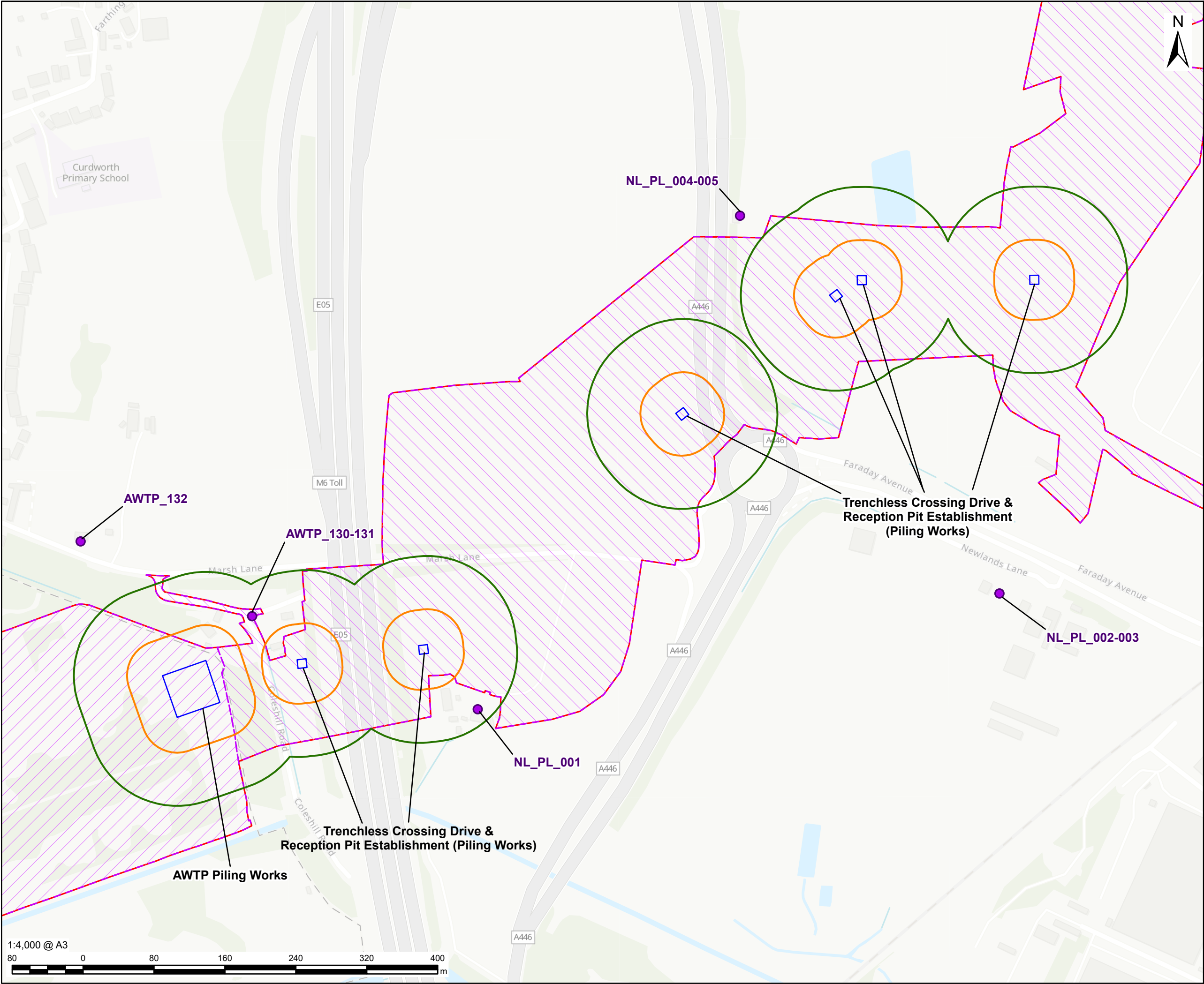
FIGURE TITLE

Vibration Risk - Advanced Water
Treatment Plant
Sheet A

FIGURE NUMBER

Figure 19-PD-3

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- LEGEND**
-  Part 1a

 Part 1b

 Preliminary Order Limits

 Receptors (Cluster)

 Area of Indicative Vibration Generating Activities

 LOAEL Buffer (100m from Vibration Generating Activities)

 SOAEL Buffer (40m from Vibration Generating Activities)



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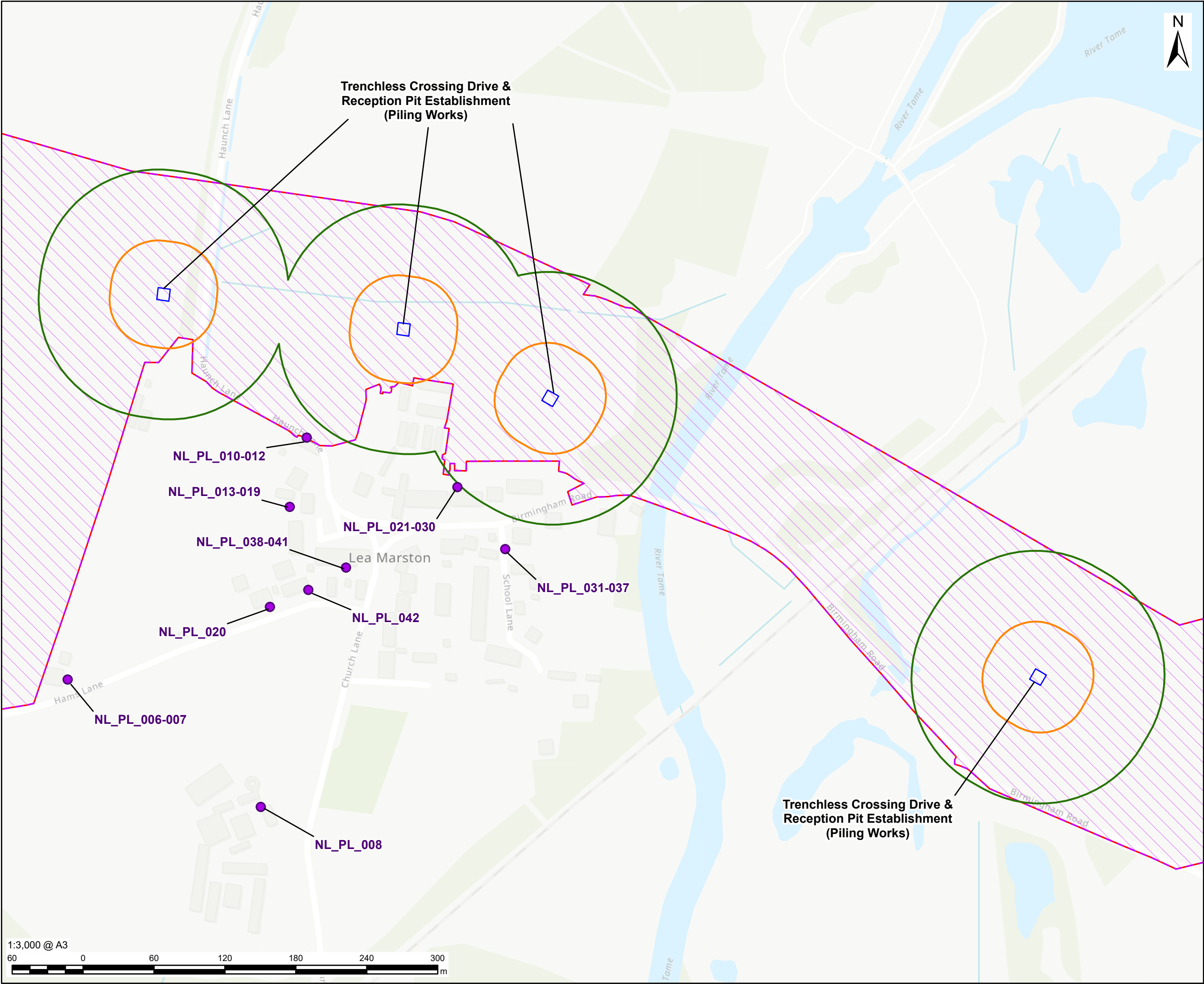
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FIGURE TITLE

Vibration Risk - Advanced Water Treatment Plant and Trenchless Crossing Shafts
Sheet B

FIGURE NUMBER

Figure 19-PD-3



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- LEGEND**
- Part 1b
 - Preliminary Order Limits
 - Receptors (Cluster)
 - Area of Indicative Vibration Generating Activities
 - LOAEL Buffer (100m from Vibration Generating Activities)
 - SOAEL Buffer (40m from Vibration Generating Activities)



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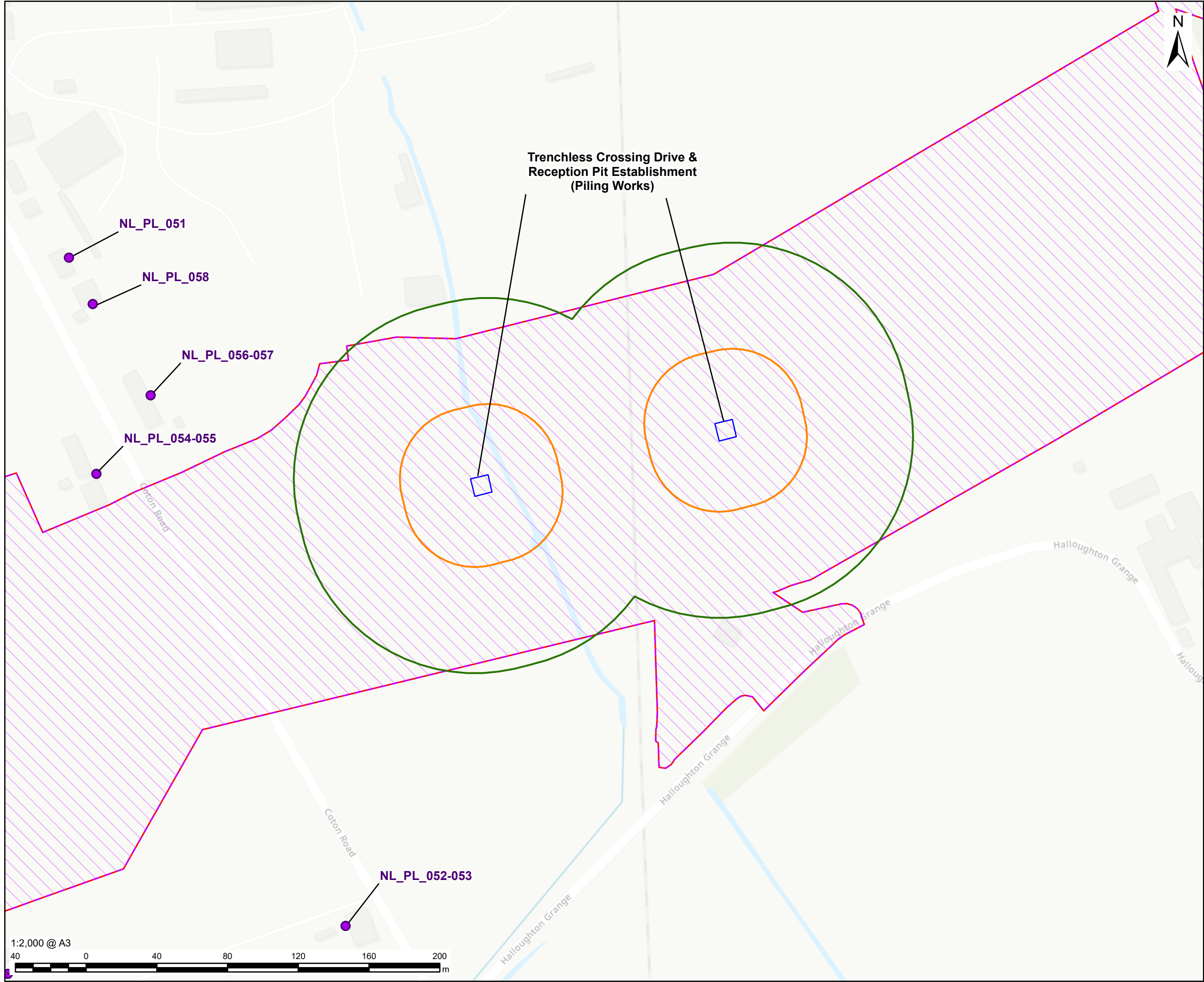
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FIGURE TITLE
 Vibration Risk - Trenchless Crossing Shafts
 Sheet C

FIGURE NUMBER
 Figure 19-PD-3

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- LEGEND**
- Part 1b
 - Preliminary Order Limits
 - Receptors (Cluster)
 - Area of Indicative Vibration Generating Activities
 - LOAEL Buffer (100m from Vibration Generating Activities)
 - SOAEL Buffer (40m from Vibration Generating Activities)



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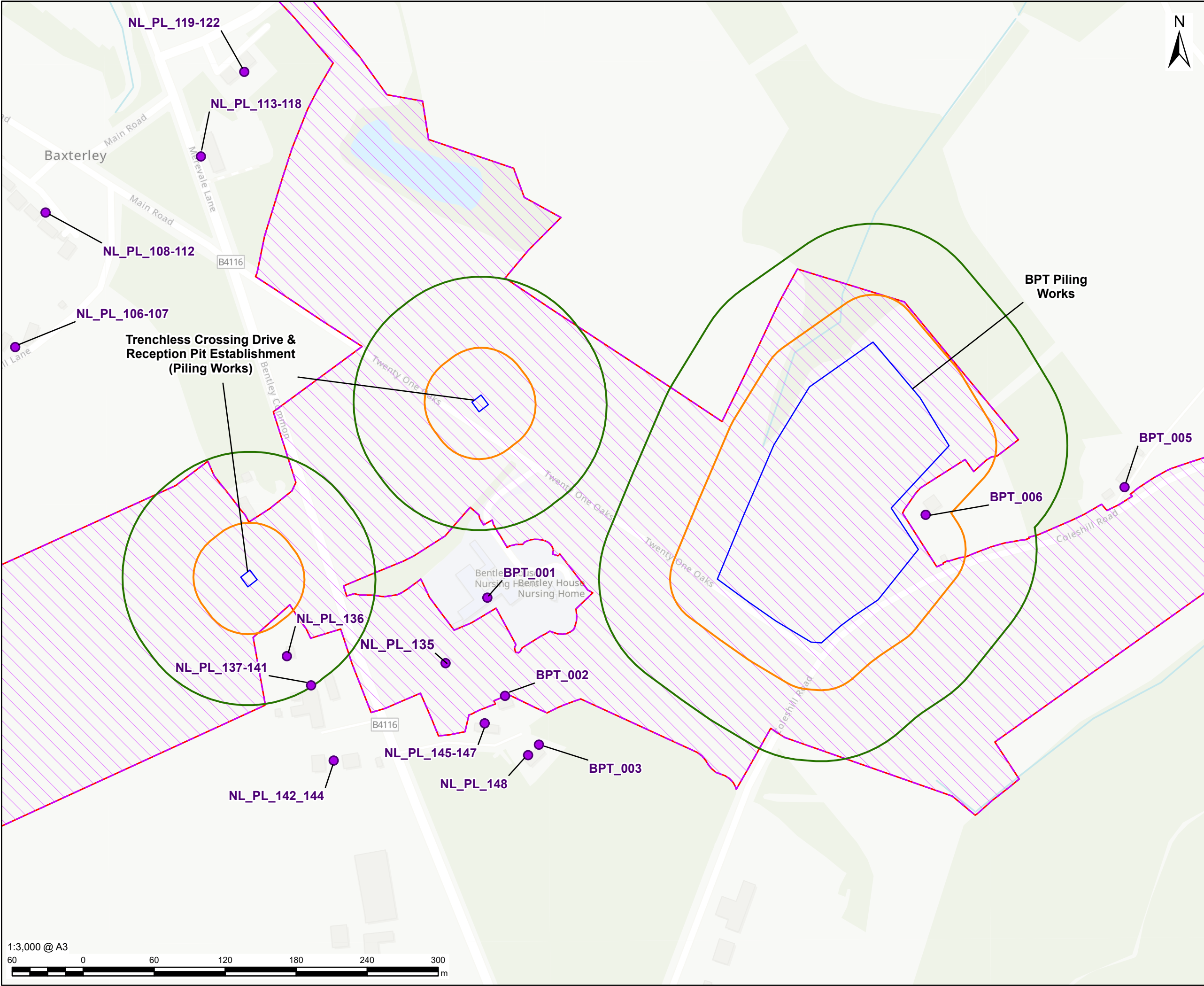
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FIGURE TITLE

Vibration Risk - Trenchless Crossing Shafts
 Sheet D

FIGURE NUMBER

Figure 19-PD-3



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- LEGEND**
- Part 1b
 - Preliminary Order Limits
 - Receptors (Cluster)
 - Area of Indicative Vibration Generating Activities
 - LOAEL Buffer (100m from Vibration Generating Activities)
 - SOAEL Buffer (40m from Vibration Generating Activities)



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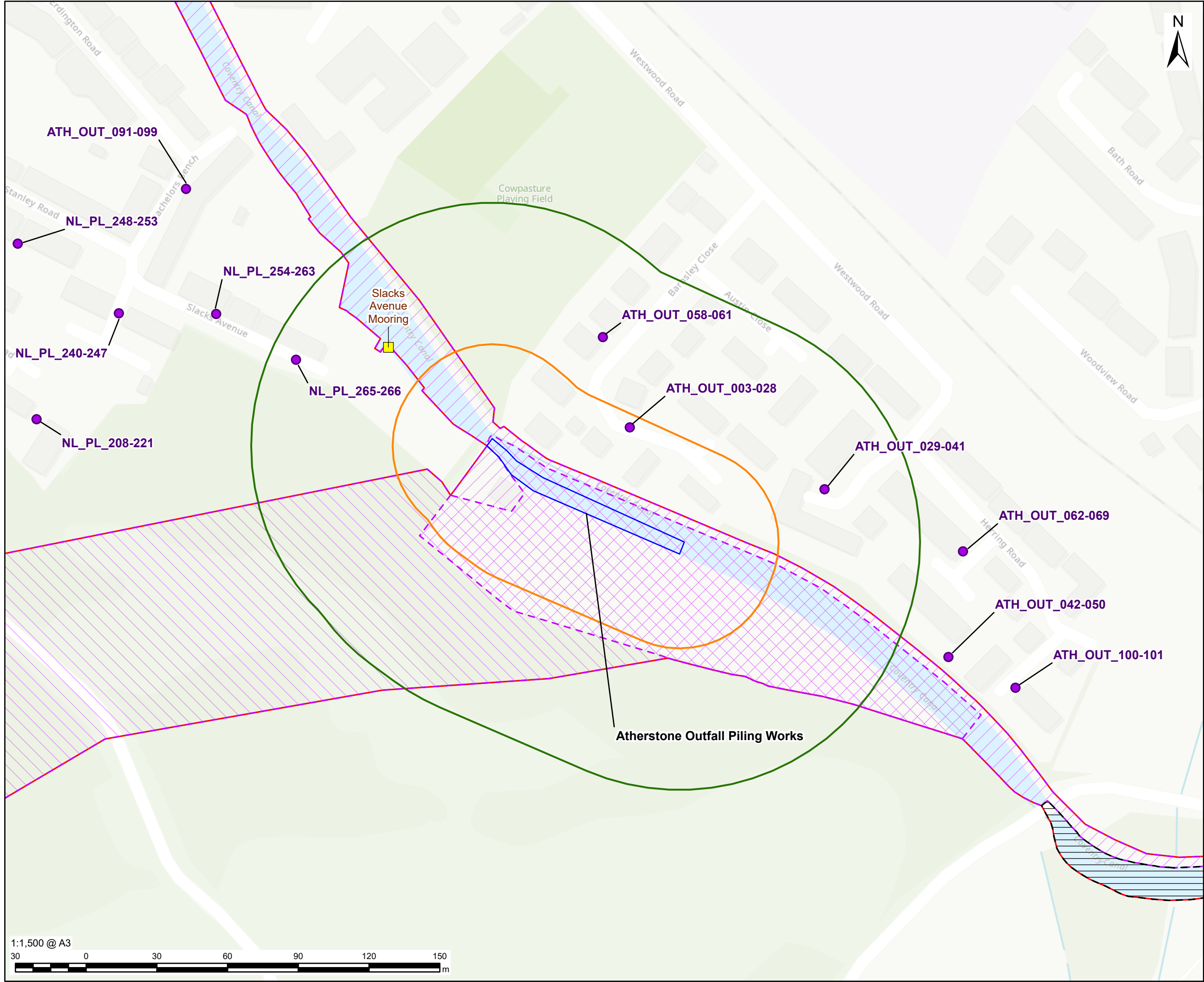
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FIGURE TITLE
Vibration Risk - Break-Pressure Tank and Trenchless Crossing Shafts
Sheet E

FIGURE NUMBER
Figure 19-PD-3

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LEGEND

Part 1b

Part 2 - Indicative Work Area

Part 2 - Indicative Non-Work Area

Preliminary Order Limits

Receptors (Cluster)

Mooring

Area of Indicative Vibration Generating Activities

LOAEL Buffer (100m from Vibration Generating Activities)

SOAEL Buffer (40m from Vibration Generating Activities)



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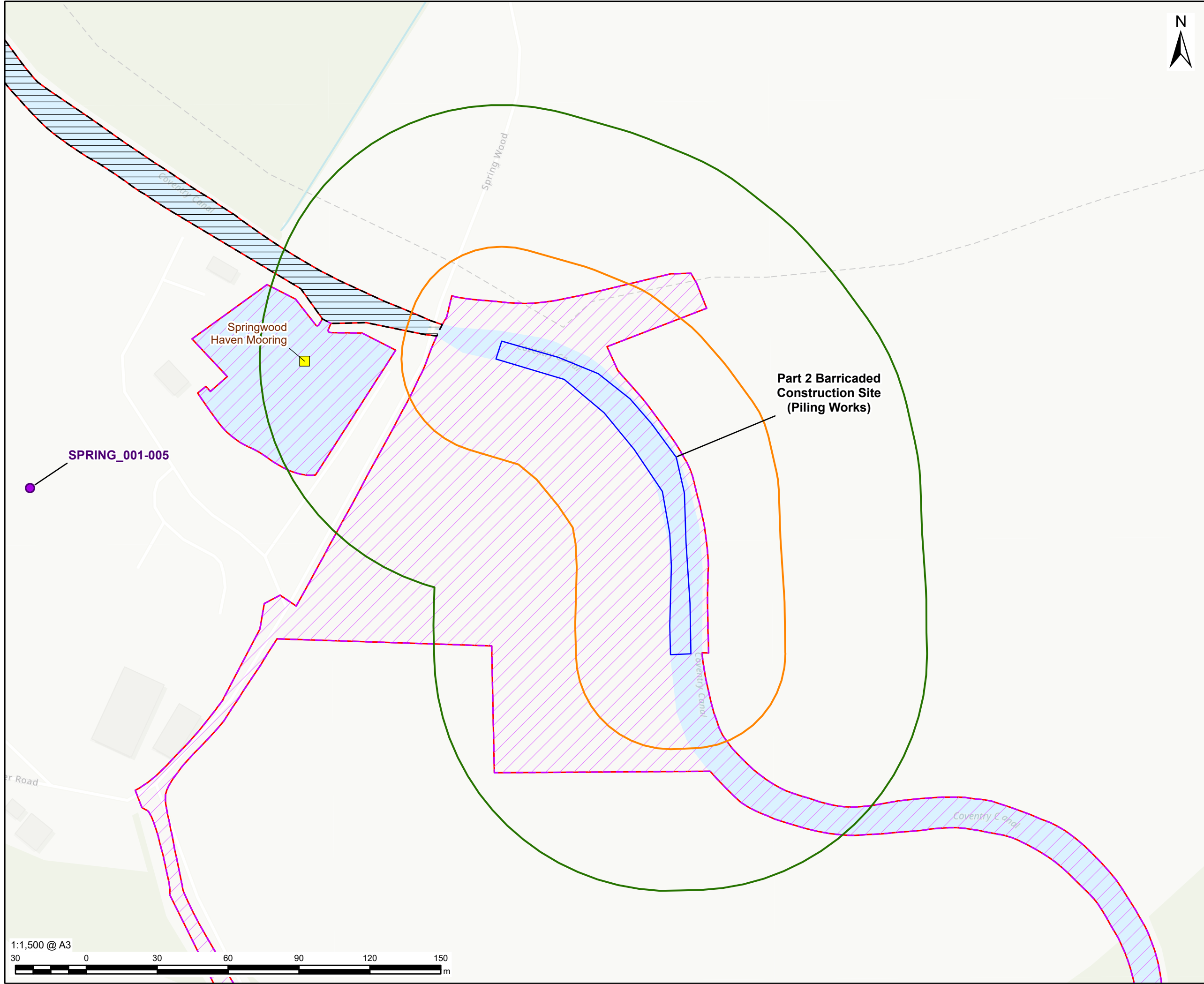
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FIGURE TITLE

Vibration Risk - Atherstone Outfall Sheet F

FIGURE NUMBER

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LEGEND

Part 2 - Indicative Work Area

Part 2 - Indicative Non-Work Area

Preliminary Order Limits

Receptors (Cluster)

Mooring

Area of Indicative Vibration Generating Activities

LOAEL Buffer (100m from Vibration Generating Activities)

SOAEL Buffer (40m from Vibration Generating Activities)



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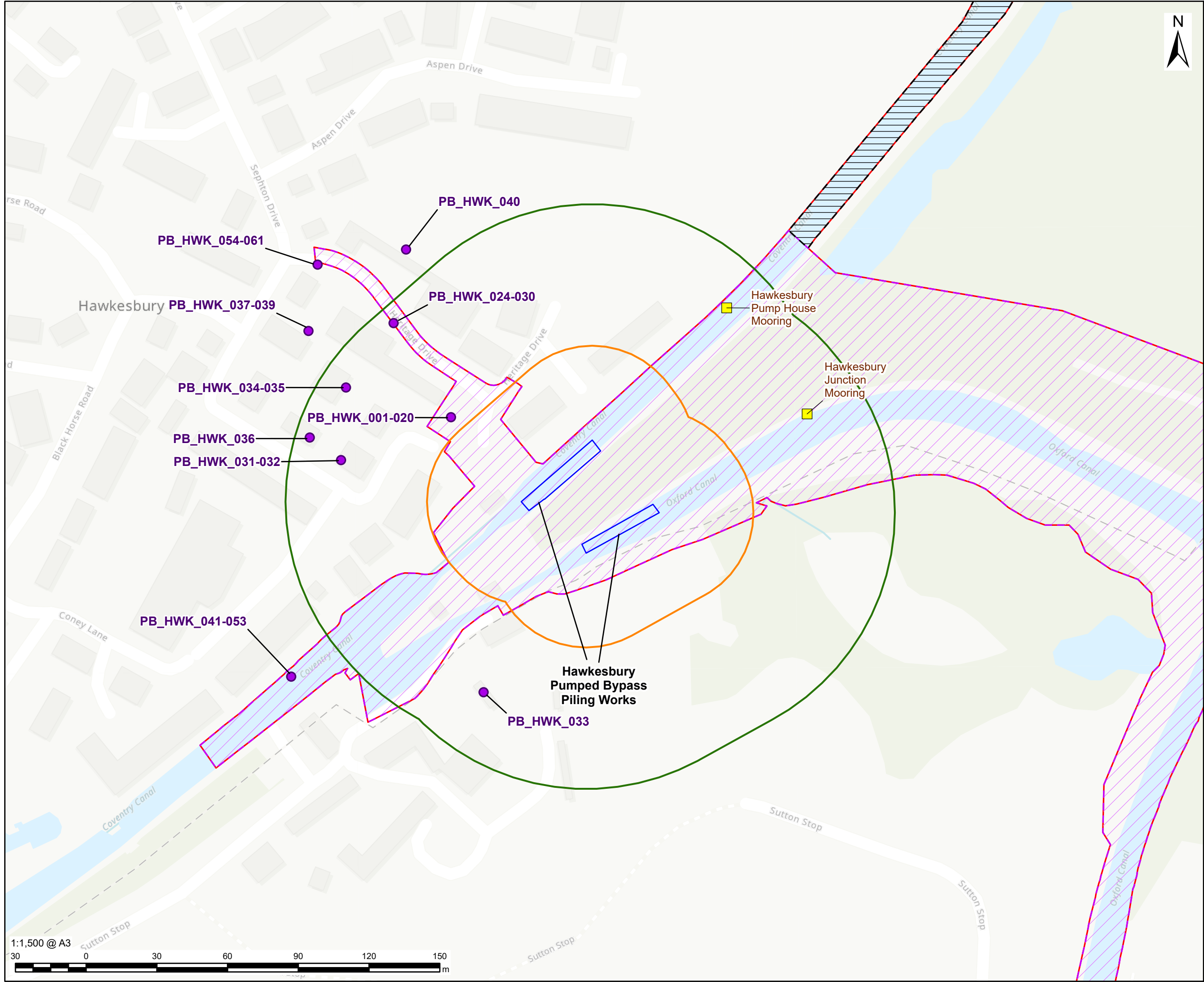
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FIGURE TITLE

Vibration Risk - Springwood Transfer
Lock Option 2
Sheet G

FIGURE NUMBER

Figure 19-PD-3



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- LEGEND**
- Part 2 - Indicative Work Area
 - Part 2 - Indicative Non-Work Area
 - Preliminary Order Limits
 - Receptors (Cluster)
 - Mooring
 - Area of Indicative Vibration Generating Activities
 - LOAEL Buffer (100m from Vibration Generating Activities)
 - SOAEL Buffer (40m from Vibration Generating Activities)



NOTES

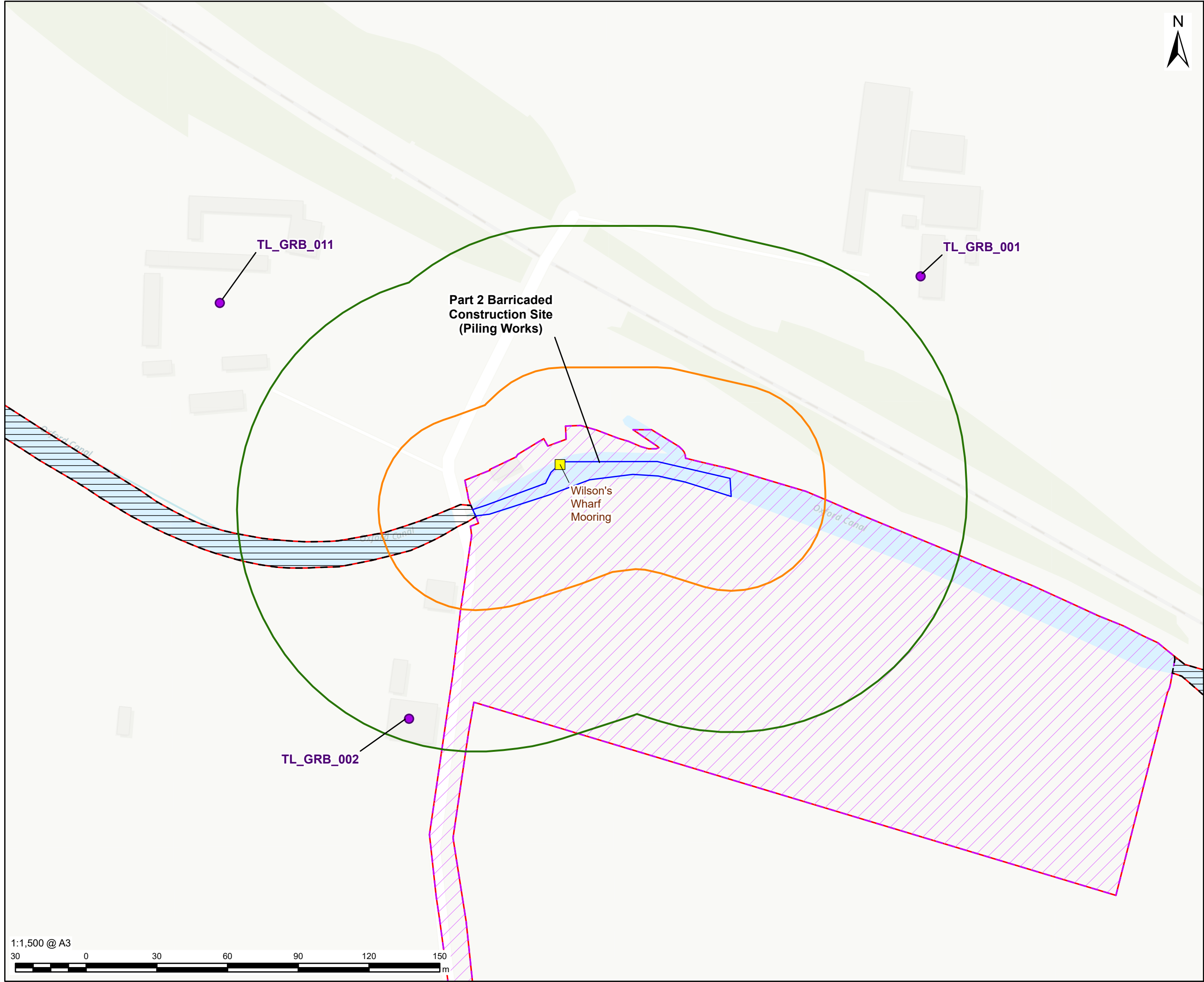
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FIGURE TITLE
 Vibration Risk - Hawkesbury Pumped Bypass
 Sheet H

FIGURE NUMBER
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LEGEND

Part 2 - Indicative Work Area
 Part 2 - Indicative Non-Work Area
 Preliminary Order Limits
 Receptors (Cluster)
 Mooring
 Area of Indicative Vibration Generating Activities
 LOAEL Buffer (100m from Vibration Generating Activities)
 SOAEL Buffer (40m from Vibration Generating Activities)



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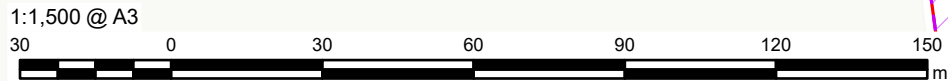
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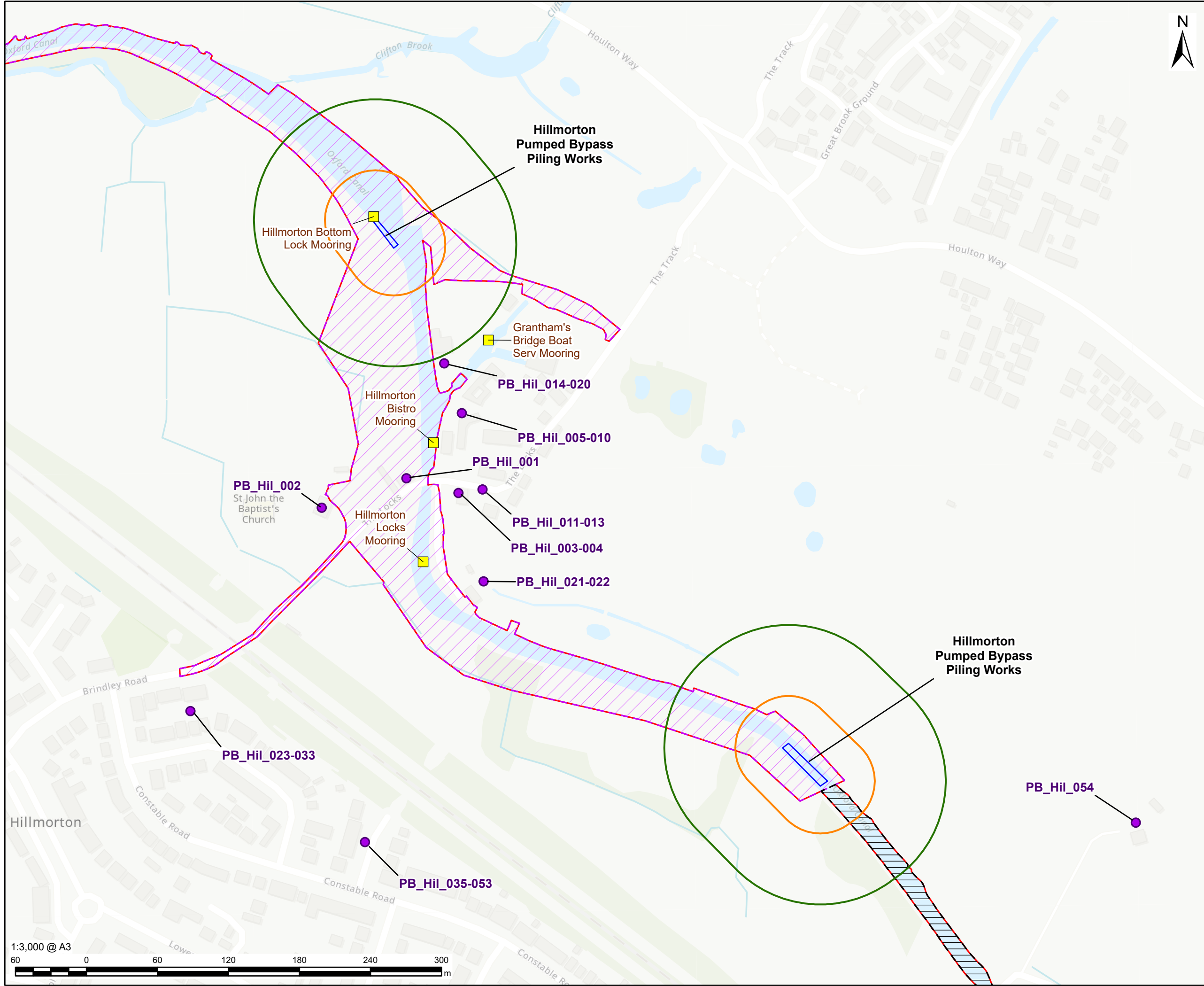
FIGURE TITLE

Vibration Risk - Grimes Bridge Transfer Lock
Sheet I

FIGURE NUMBER

Figure 19-PD-3





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LEGEND

 Part 2 - Indicative Work Area

 Part 2 - Indicative Non-Work Area

 Preliminary Order Limits

 Receptors (Cluster)

 Mooring

 Area of Indicative Vibration
Generating Activities

 LOAEL Buffer (100m from Vibration
Generating Activities)

 SOAEL Buffer (40m from Vibration
Generating Activities)



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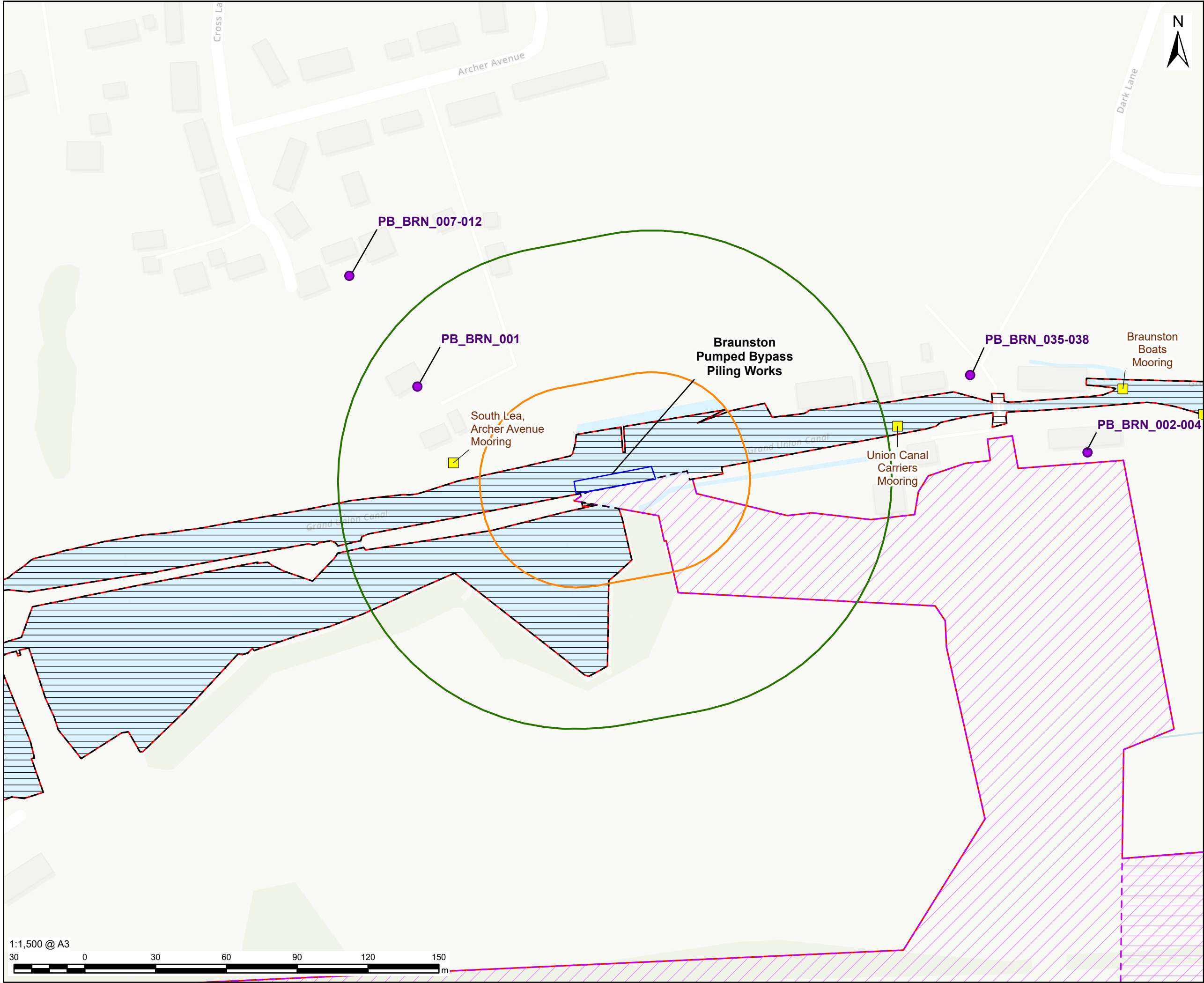
FIGURE TITLE

Vibration Risk - Hillmorton Locks
Pumped Bypass
Sheet J

FIGURE NUMBER

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- LEGEND**
-  Part 2 - Indicative Work Area
 -  Part 2 - Indicative Non-Work Area
 -  Part 3 - Indicative Work Area
 -  Preliminary Order Limits
 -  Receptors (Cluster)
 -  Mooring
 -  Area of Indicative Vibration Generating Activities
 -  LOAEL Buffer (100m from Vibration Generating Activities)
 -  SOAEL Buffer (40m from Vibration Generating Activities)



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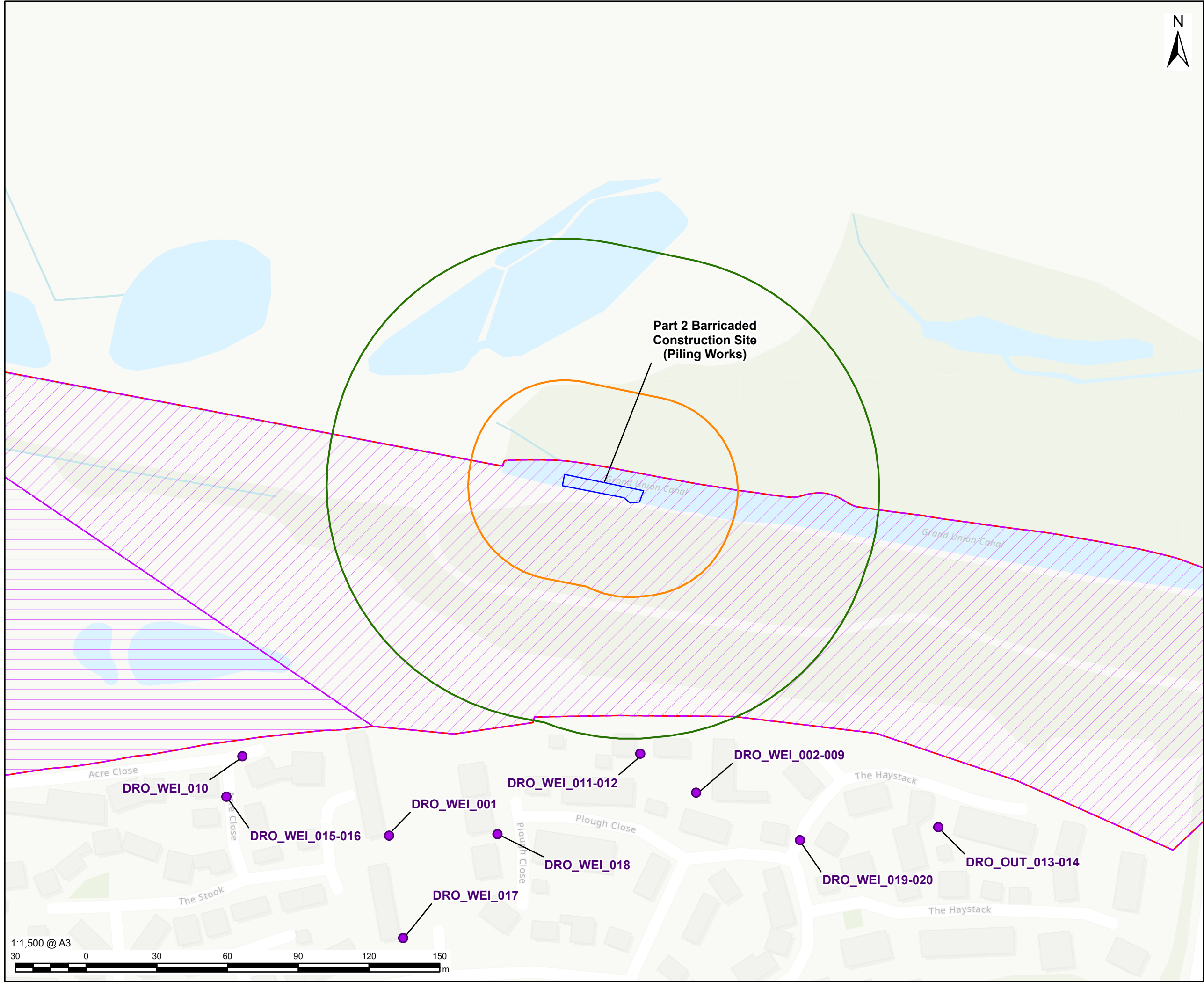
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FIGURE TITLE

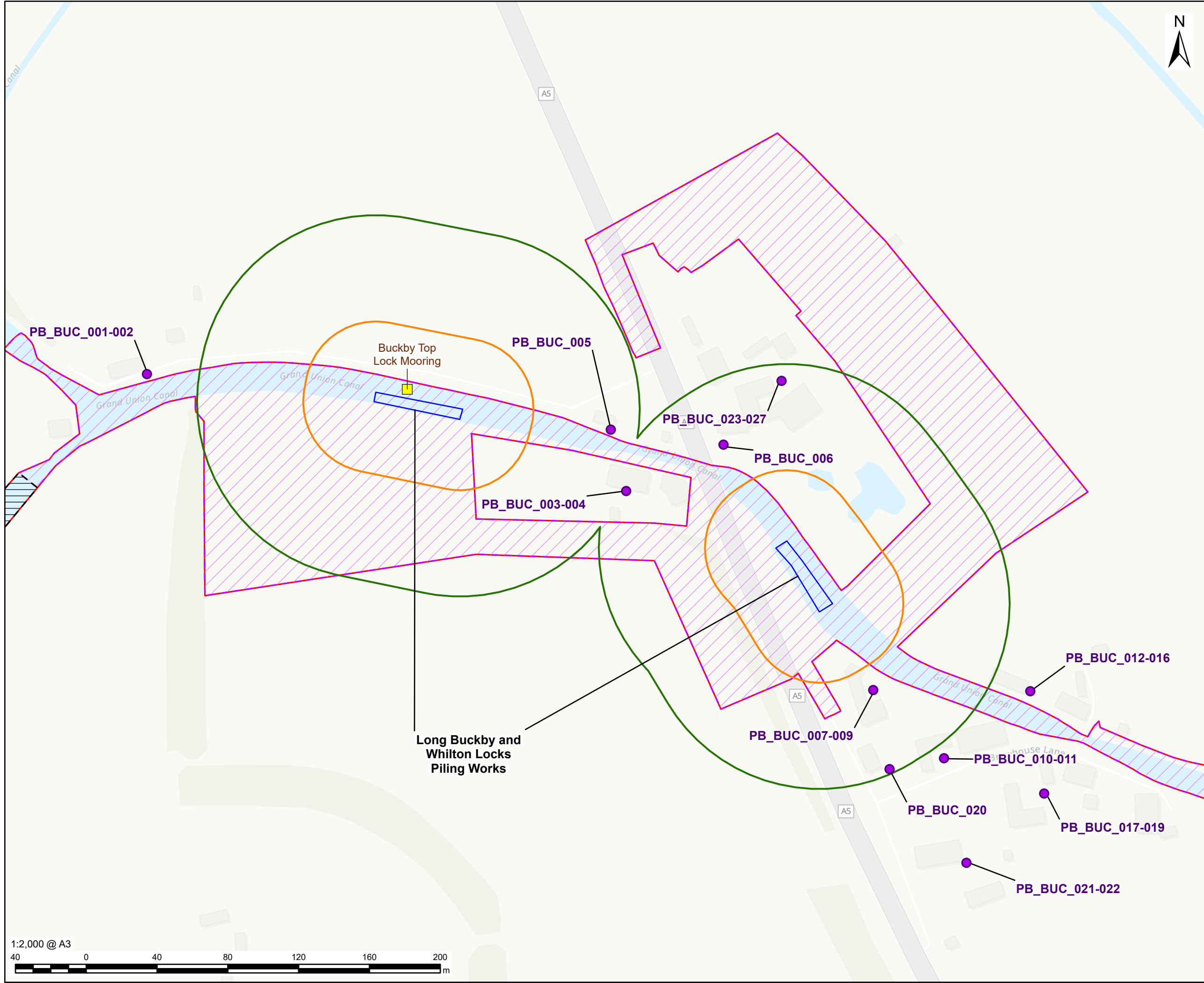
Vibration Risk - Braunston Pumped Bypass Sheet K

FIGURE NUMBER

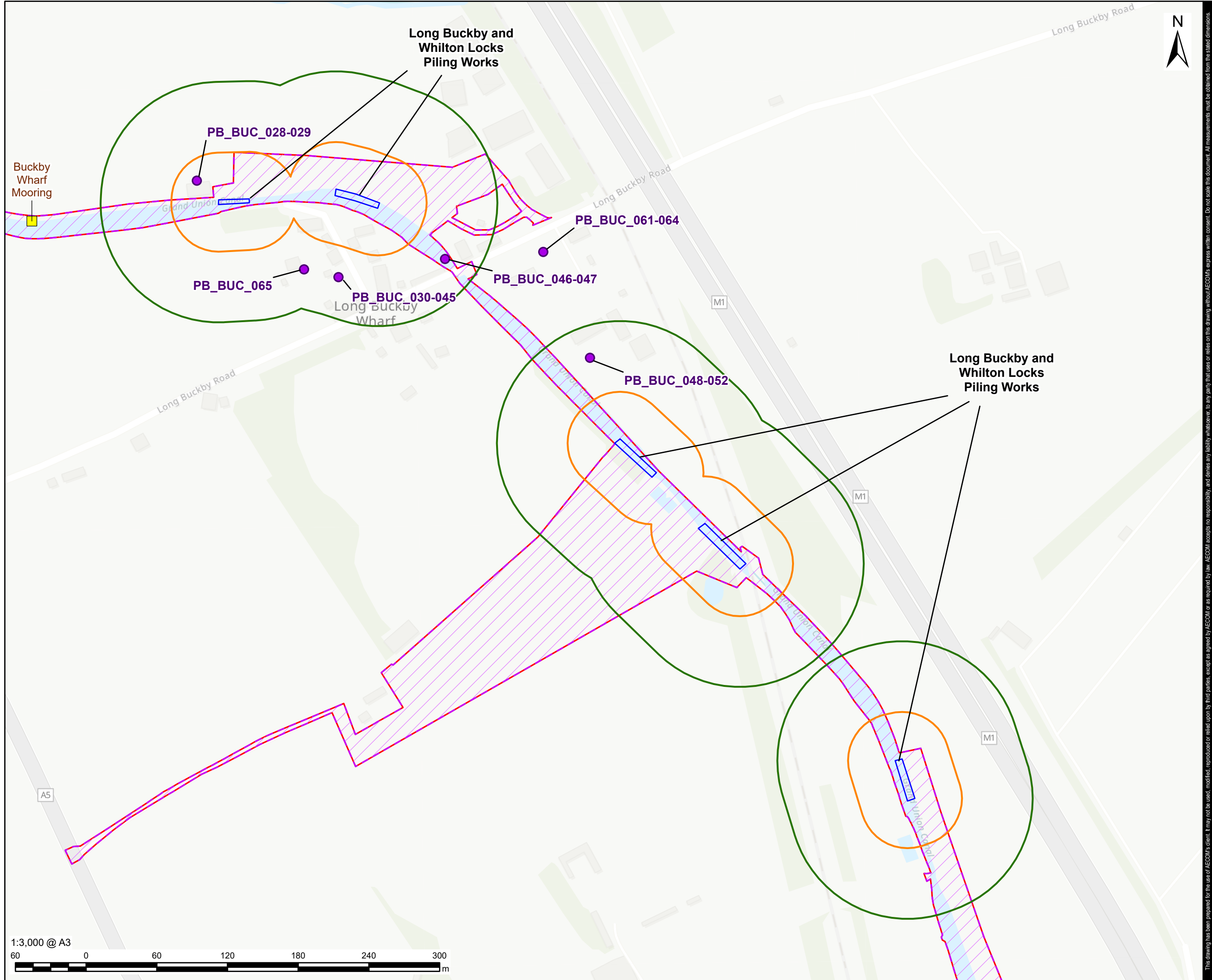
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LEGEND

- Part 2 - Indicative Work Area
- Preliminary Order Limits
- Receptors (Cluster)
- Mooring
- Area of Indicative Vibration Generating Activities
- LOAEL Buffer (100m from Vibration Generating Activities)
- SOAEL Buffer (40m from Vibration Generating Activities)



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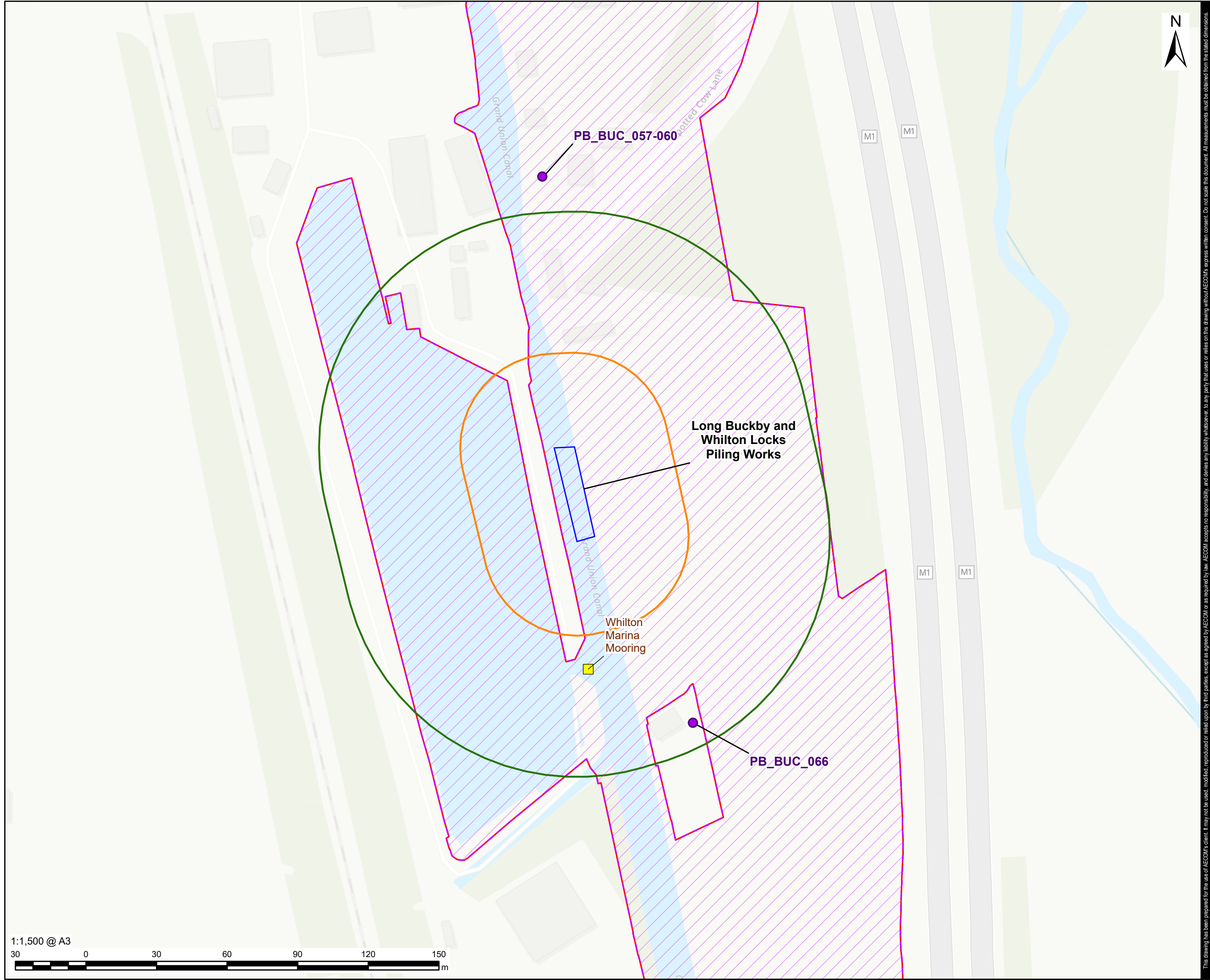
FIGURE TITLE

Vibration Risk - Long Buckby and Whilton Locks Gravity Bypass
Sheet N

FIGURE NUMBER

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LEGEND

- Part 2 - Indicative Work Area
- Preliminary Order Limits
- Receptors (Cluster)
- Mooring
- Area of Indicative Vibration Generating Activities
- LOAEL Buffer (100m from Vibration Generating Activities)
- SOAEL Buffer (40m from Vibration Generating Activities)

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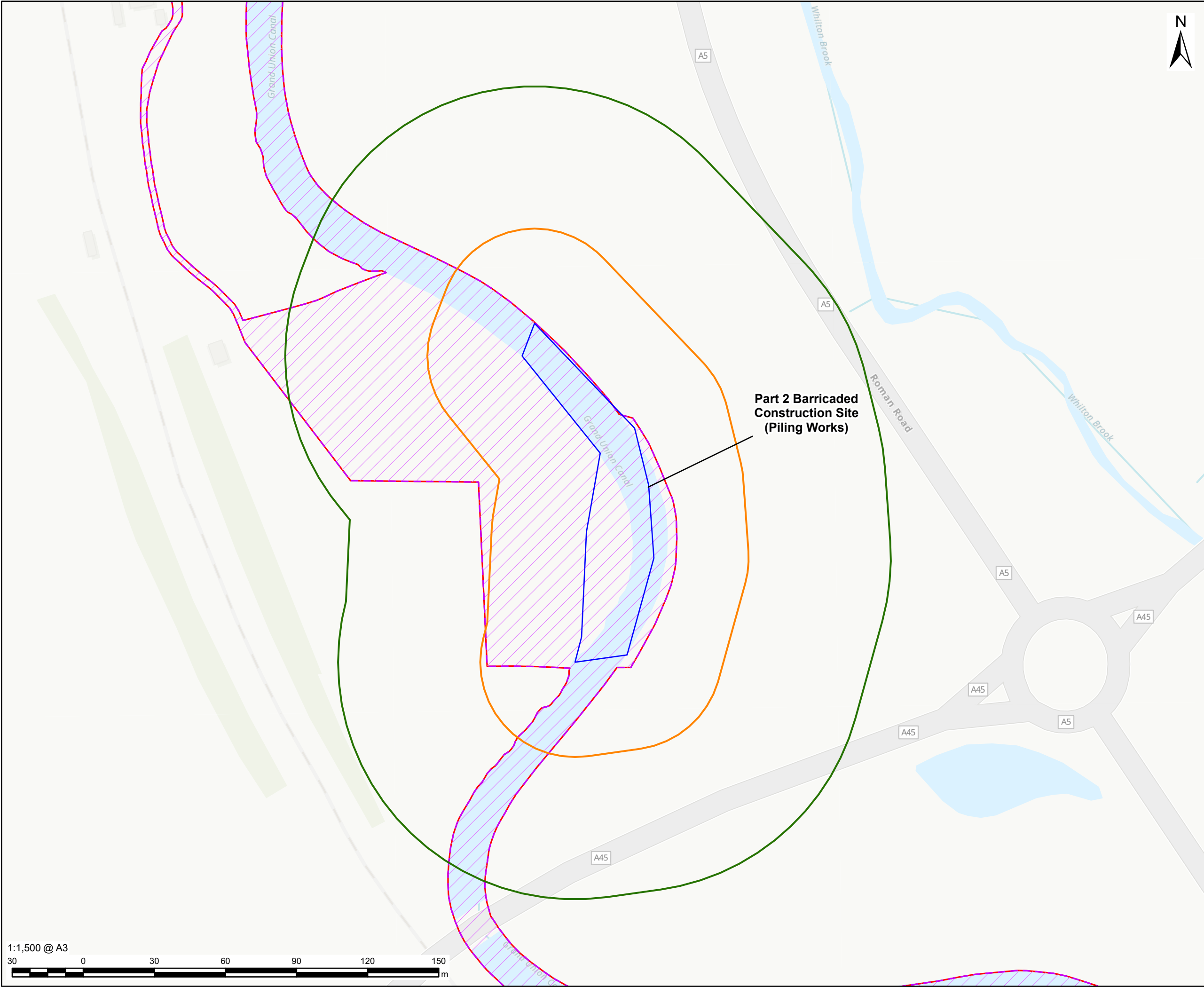
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FIGURE TITLE

Vibration Risk - Whilton Locks Gravity Bypass
Sheet O

FIGURE NUMBER

Figure 19-PD-3



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LEGEND

-  Part 2 - Indicative Work Area
-  Preliminary Order Limits
-  Area of Indicative Vibration Generating Activities
-  LOAEL Buffer (100m from Vibration Generating Activities)
-  SOAEL Buffer (40m from Vibration Generating Activities)



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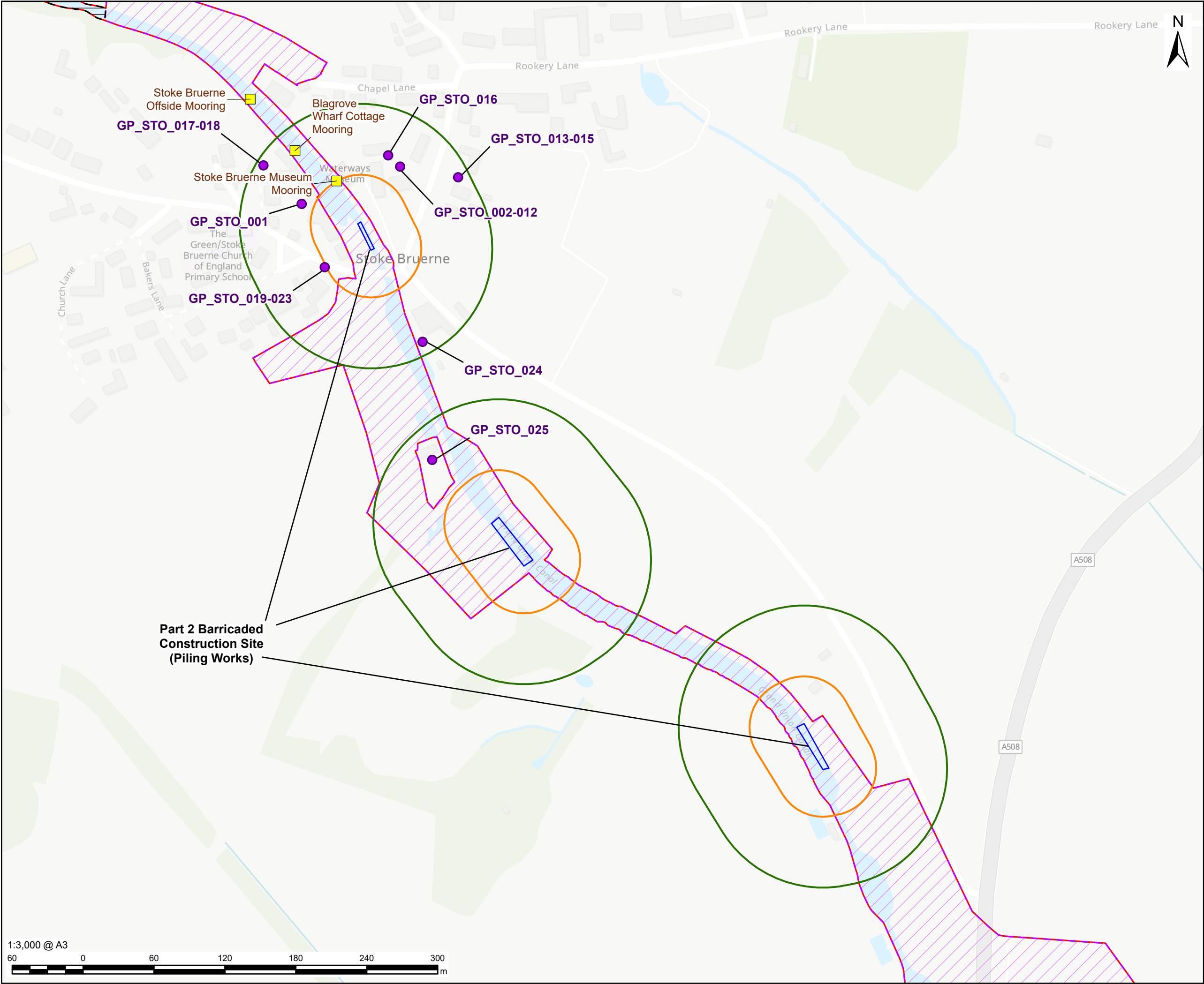
FIGURE TITLE

Vibration Risk - Dodford Road Transfer Lock
Sheet P

FIGURE NUMBER

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LEGEND

- Part 2 - Indicative Work Area
- Part 2 - Indicative Non-Work Area
- Preliminary Order Limits
- Receptors (Cluster)
- Mooring
- Area of Indicative Vibration Generating Activities
- LOAEL Buffer (100m from Vibration Generating Activities)
- SOAEL Buffer (40m from Vibration Generating Activities)



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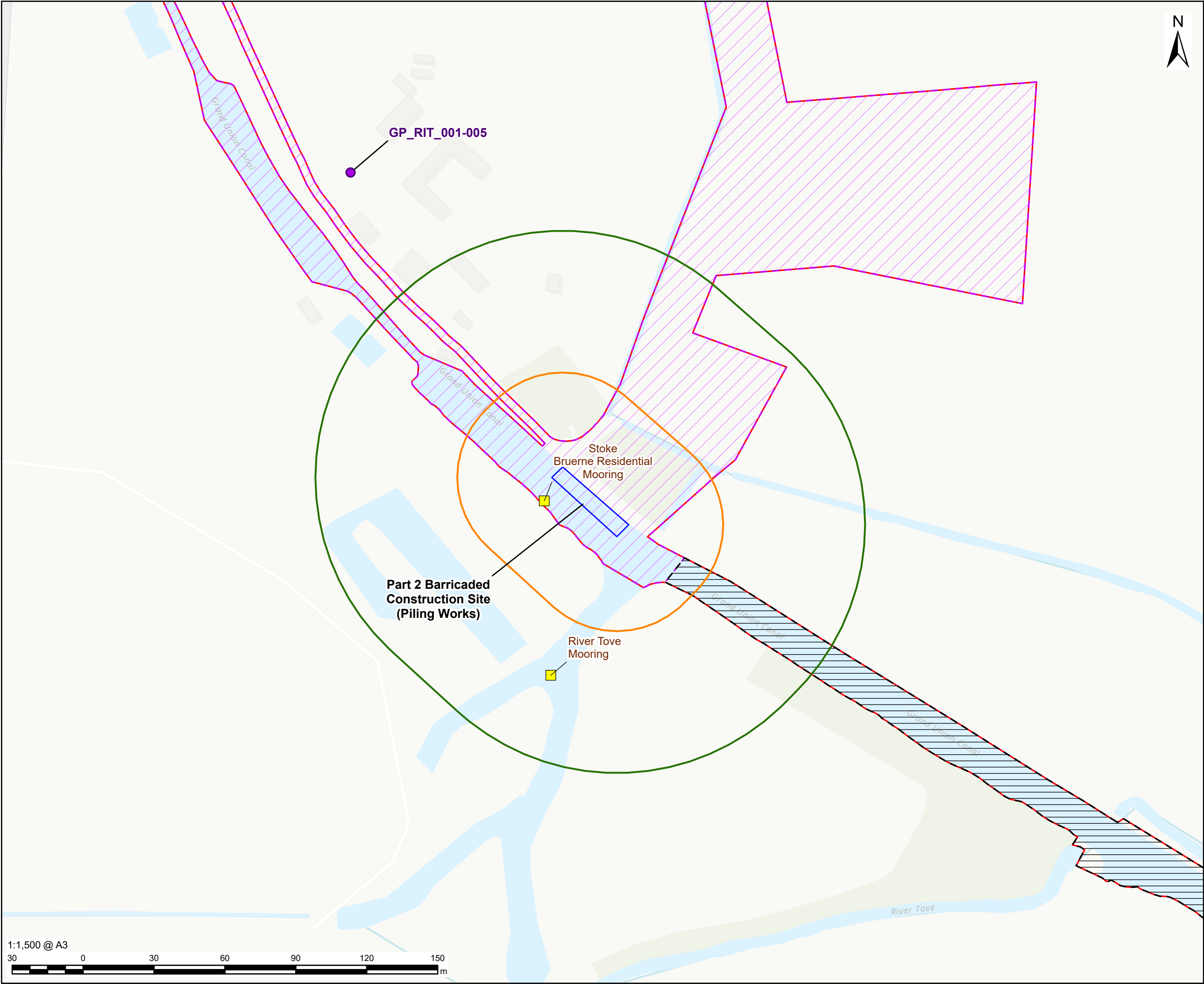
FIGURE TITLE

Vibration Risk - Stoke Bruerne Locks Gravity Bypass
Sheet Q

FIGURE NUMBER

Figure 19-PD-3





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LEGEND

- Part 2 - Indicative Work Area
- Part 2 - Indicative Non-Work Area
- Preliminary Order Limits
- Receptors (Cluster)
- Mooring
- Area of Indicative Vibration
Generating Activities
- LOAEL Buffer (100m from Vibration
Generating Activities)
- SOAEL Buffer (40m from Vibration
Generating Activities)



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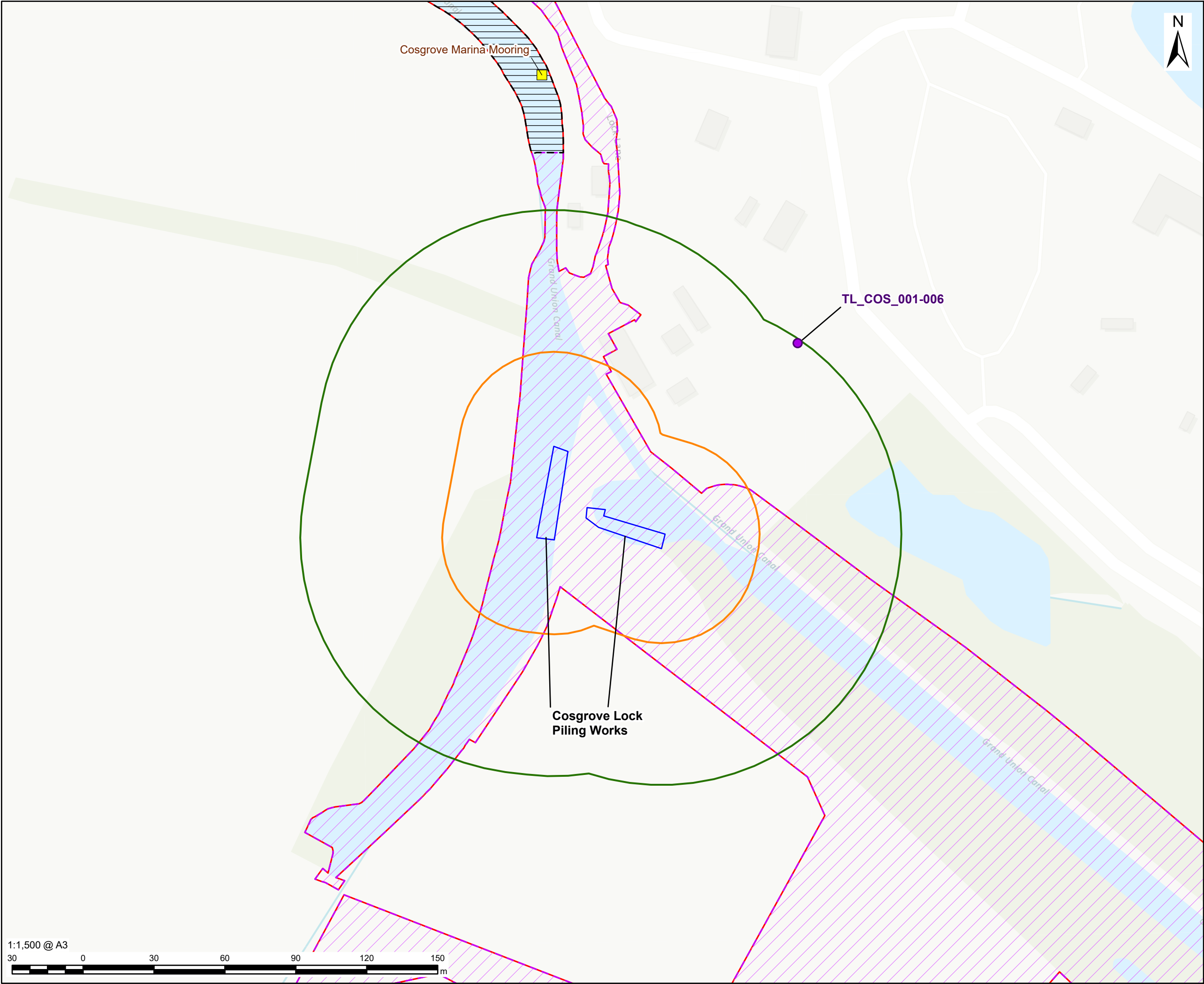
FIGURE TITLE

Vibration Risk - Stoke Bruerne Locks
Gravity Bypass
Sheet R

FIGURE NUMBER

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- LEGEND**
- Part 2 - Indicative Work Area

Part 2 - Indicative Non-Work Area

Preliminary Order Limits

Receptors (Cluster)

Mooring

Area of Indicative Vibration Generating Activities

LOAEL Buffer (100m from Vibration Generating Activities)

SOAEL Buffer (40m from Vibration Generating Activities)



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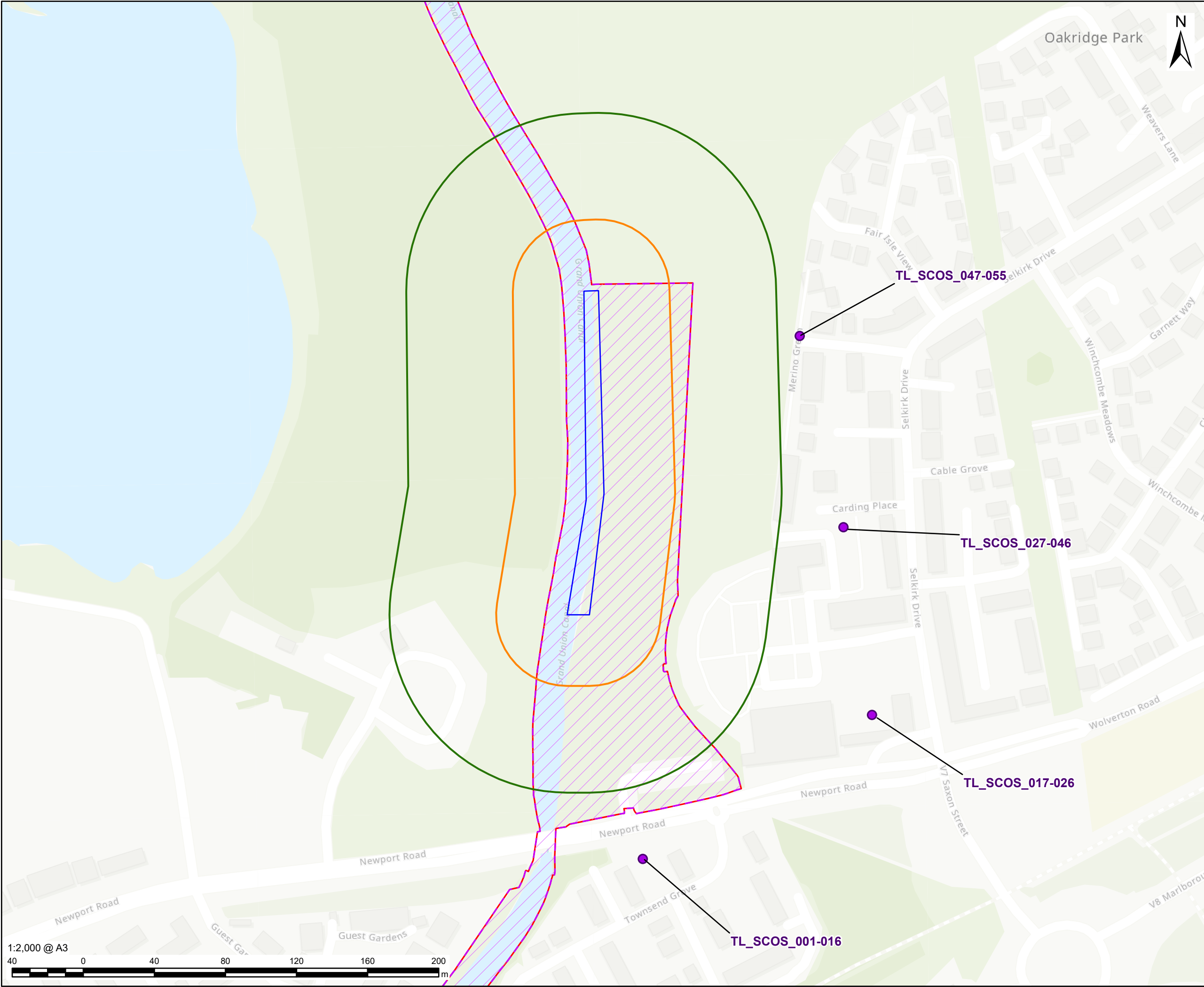
FIGURE TITLE

Vibration Risk - Cosgrove Lock Gravity Bypass
 Sheet S

FIGURE NUMBER

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- LEGEND**
- Part 2 - Indicative Work Area
 - Preliminary Order Limits
 - Receptors (Cluster)
 - Area of Indicative Vibration Generating Activities
 - LOAEL Buffer (100m from Vibration Generating Activities)
 - SOAEL Buffer (40m from Vibration Generating Activities)



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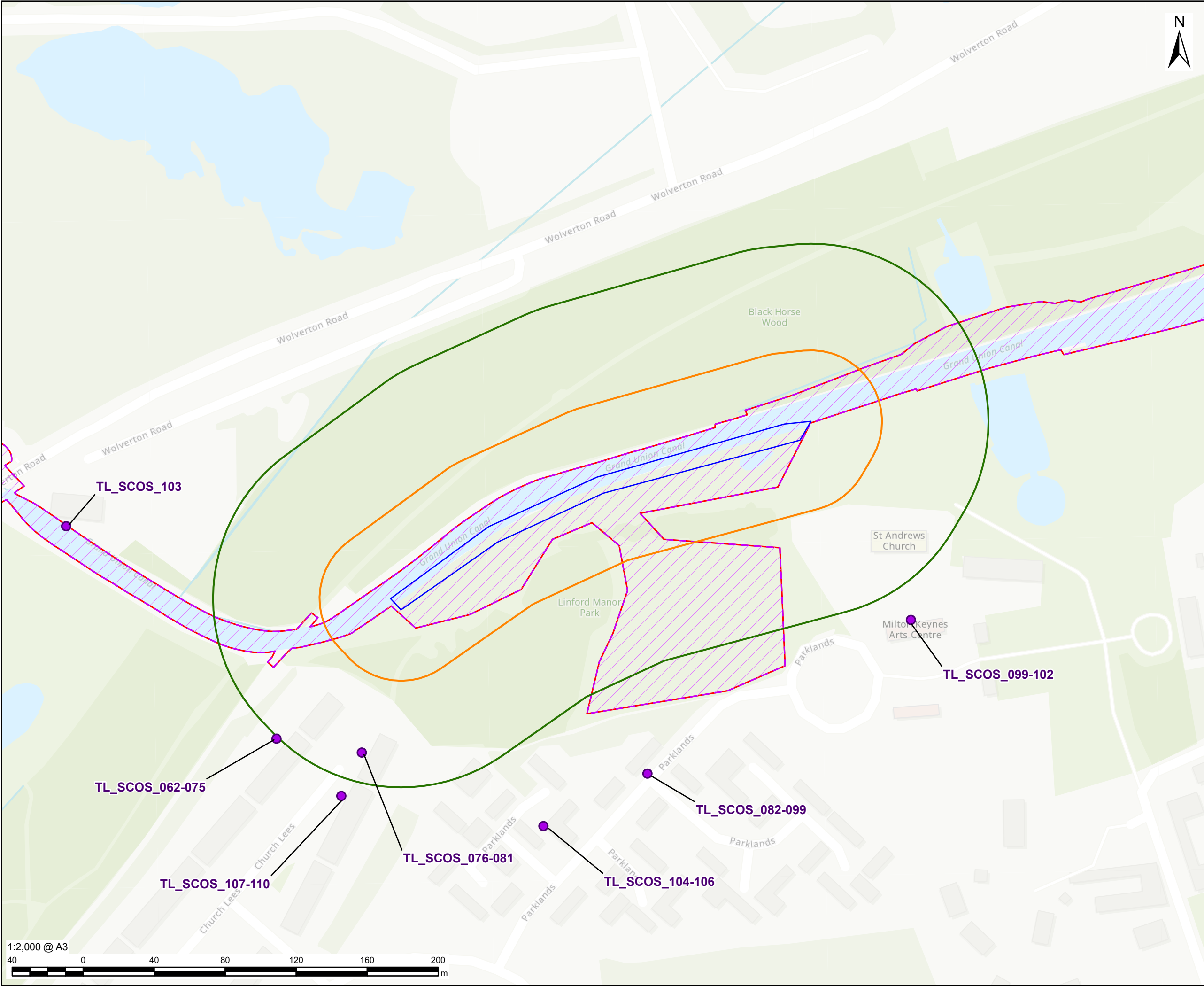
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FINAL

PROJECT NUMBER
60720432

FIGURE TITLE
Vibration Risk - 4th Transfer Lock
Option 1
Sheet T

FIGURE NUMBER
Figure 19-PD-3

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- LEGEND**
-  Part 2 - Indicative Work Area
 -  Preliminary Order Limits
 -  Receptors (Cluster)
 -  Area of Indicative Vibration Generating Activities
 -  LOAEL Buffer (100m from Vibration Generating Activities)
 -  SOAEL Buffer (40m from Vibration Generating Activities)



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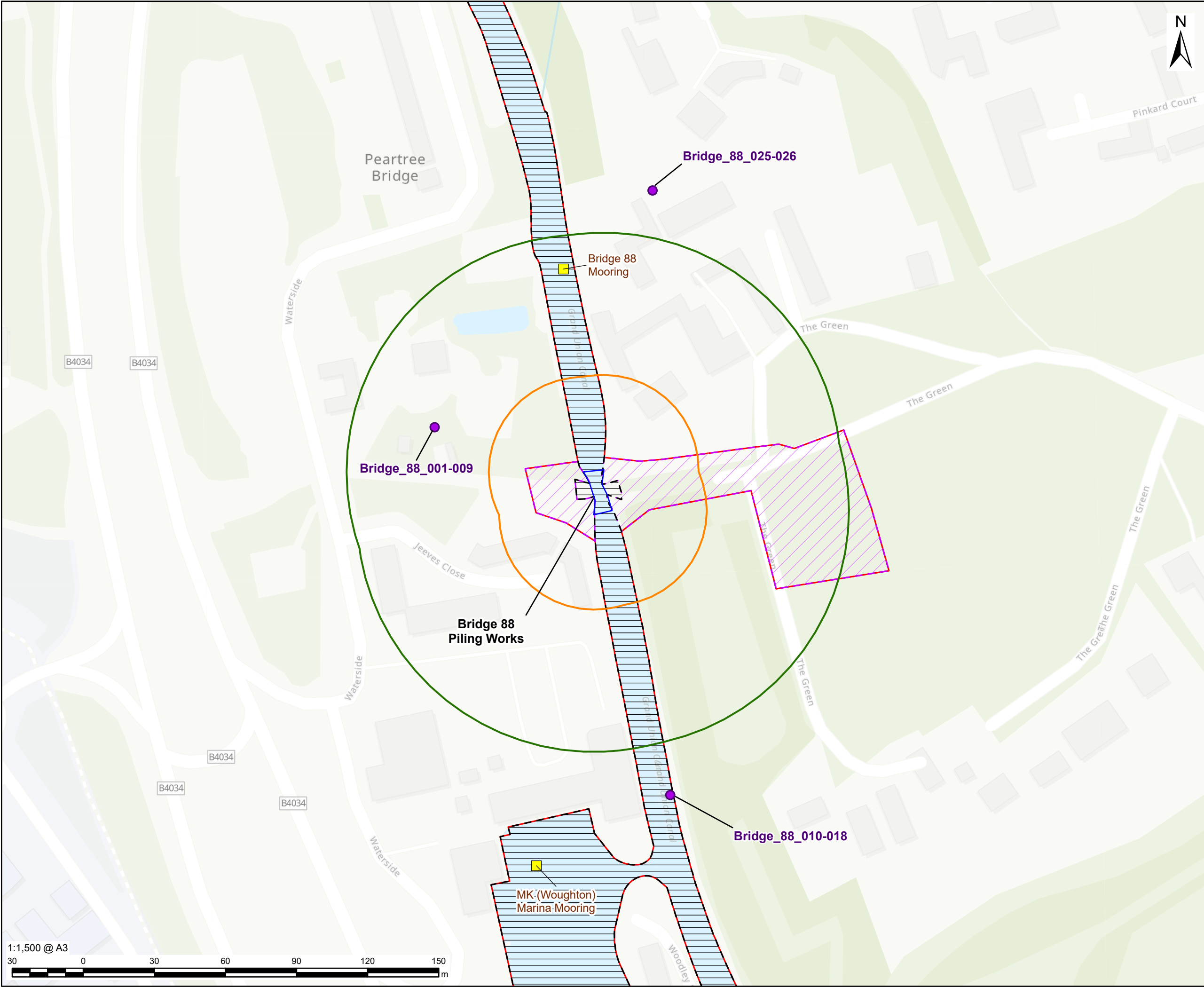
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FIGURE TITLE

Vibration Risk - 4th Transfer Lock
Option 2
Sheet U

FIGURE NUMBER

Figure 19-PD-3



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LEGEND

- Part 2 - Indicative Work Area
- Part 2 - Indicative Non-Work Area
- Preliminary Order Limits
- Receptors (Cluster)
- Mooring
- Area of Indicative Vibration Generating Activities
- LOAEL Buffer (100m from Vibration Generating Activities)
- SOAEL Buffer (40m from Vibration Generating Activities)



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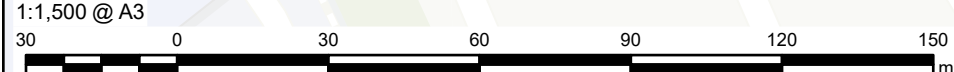
FIGURE TITLE

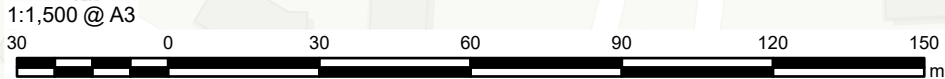
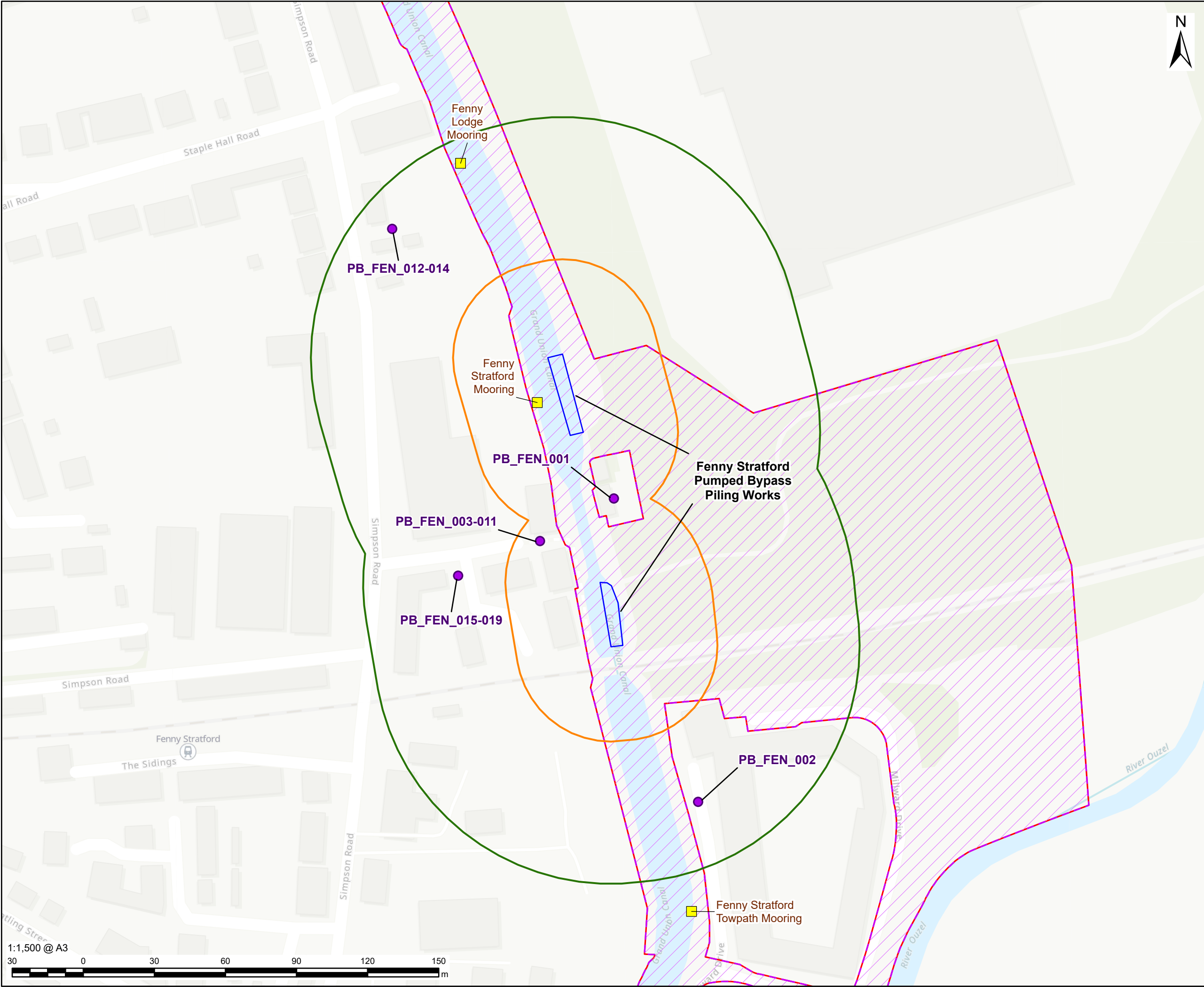
Vibration Risk - Bridge 88 Modification Sheet V

FIGURE NUMBER

Figure 19-PD-3

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- LEGEND
- Part 2 - Indicative Work Area
 - Preliminary Order Limits
 - Receptors (Cluster)
 - Mooring
 - Area of Indicative Vibration Generating Activities
 - LOAEL Buffer (100m from Vibration Generating Activities)
 - SOAEL Buffer (40m from Vibration Generating Activities)



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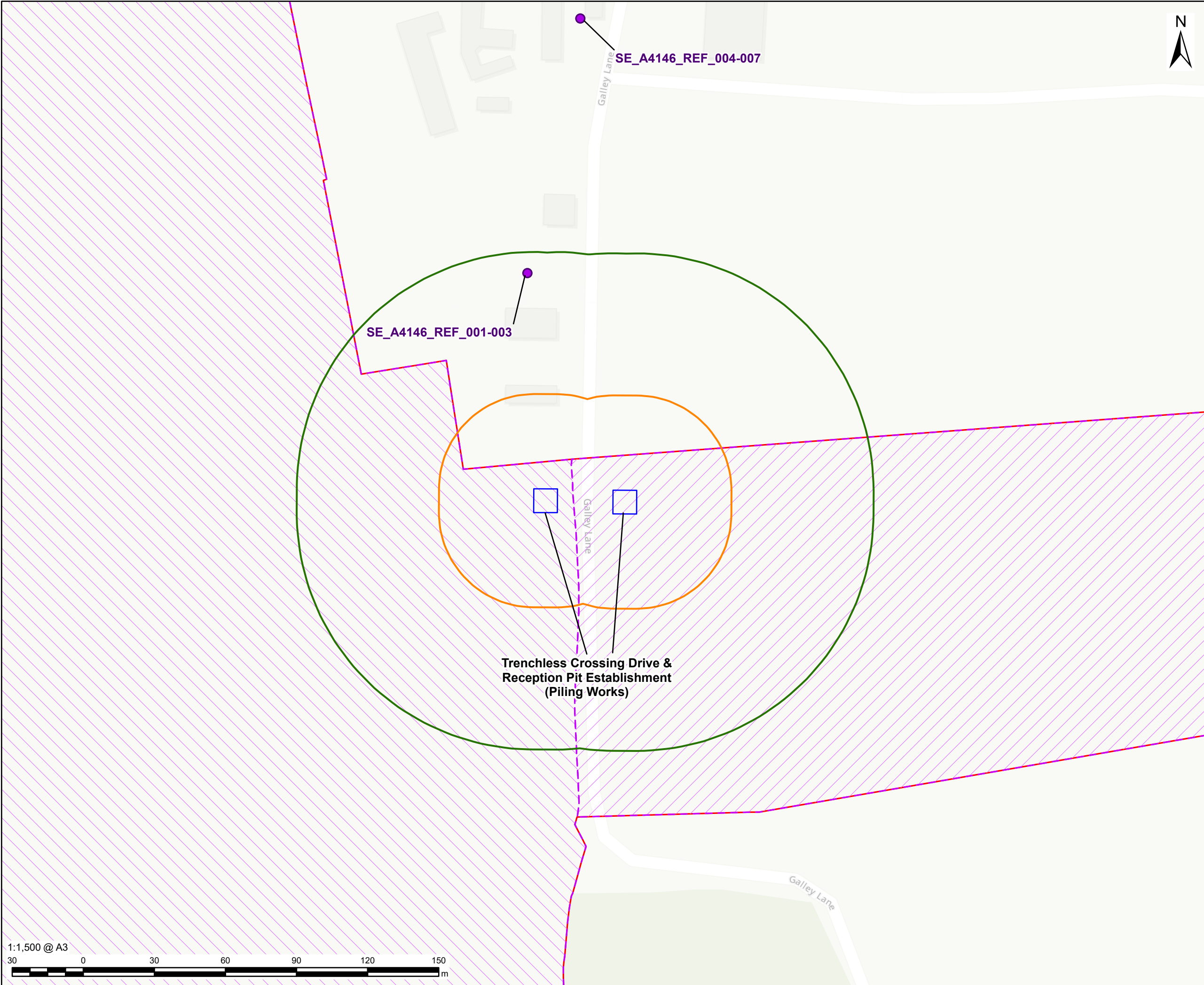
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FIGURE TITLE

Vibration Risk - Fenny Stratford Pumped Bypass Sheet W

FIGURE NUMBER

Figure 19-PD-3



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LEGEND

- Part 4a
- Part 4b
- Preliminary Order Limits
- Receptors (Cluster)
- Area of Indicative Vibration Generating Activities
- LOAEL Buffer (100m from Vibration Generating Activities)
- SOAEL Buffer (40m from Vibration Generating Activities)

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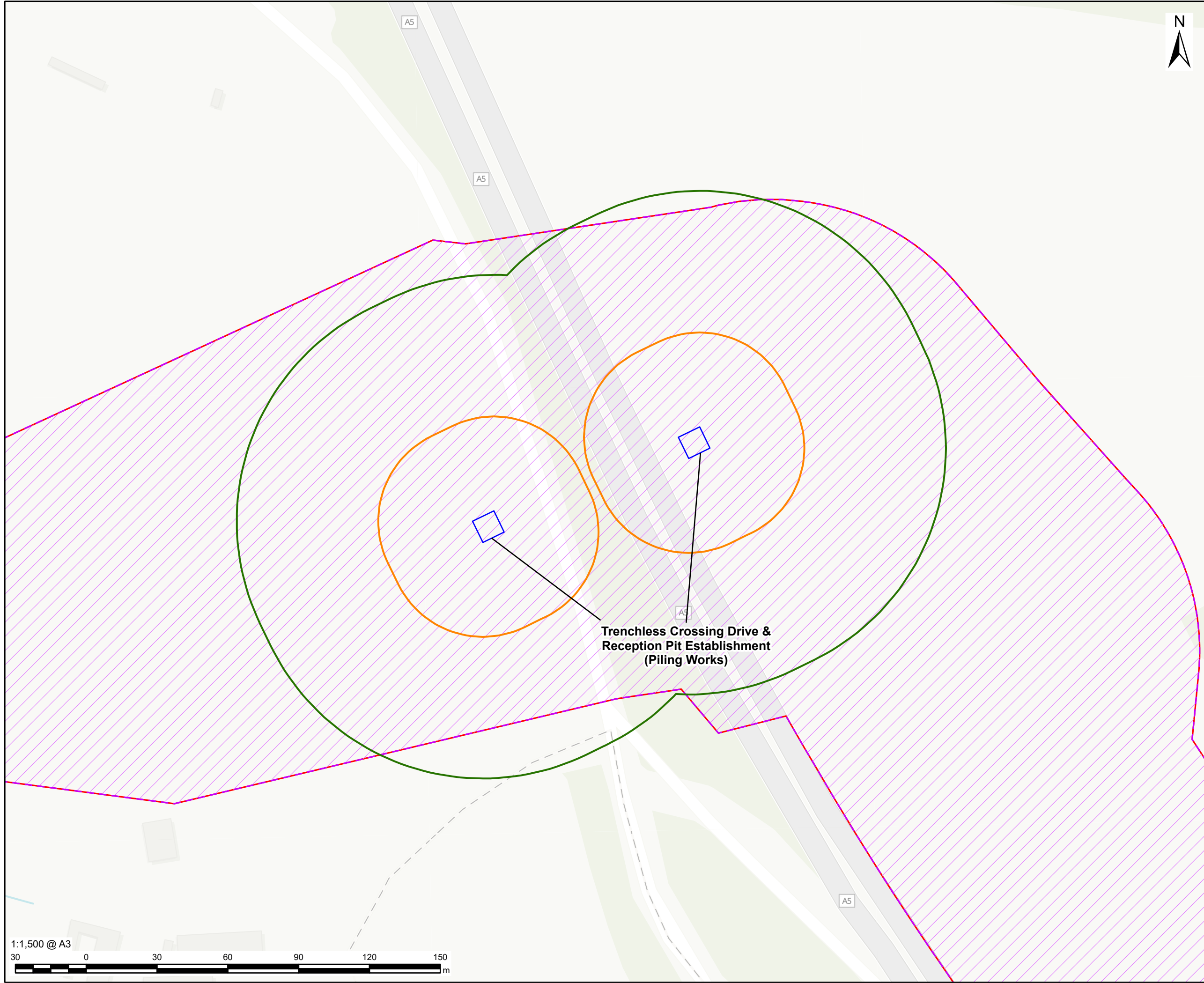
60720432

FIGURE TITLE

Vibration Risk - Galley Water Treatment Works
Sheet X

FIGURE NUMBER

Figure 19-PD-3



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LEGEND

Part 4b

Preliminary Order Limits

Area of Indicative Vibration Generating Activities

LOAEL Buffer (100m from Vibration Generating Activities)

SOAEL Buffer (40m from Vibration Generating Activities)



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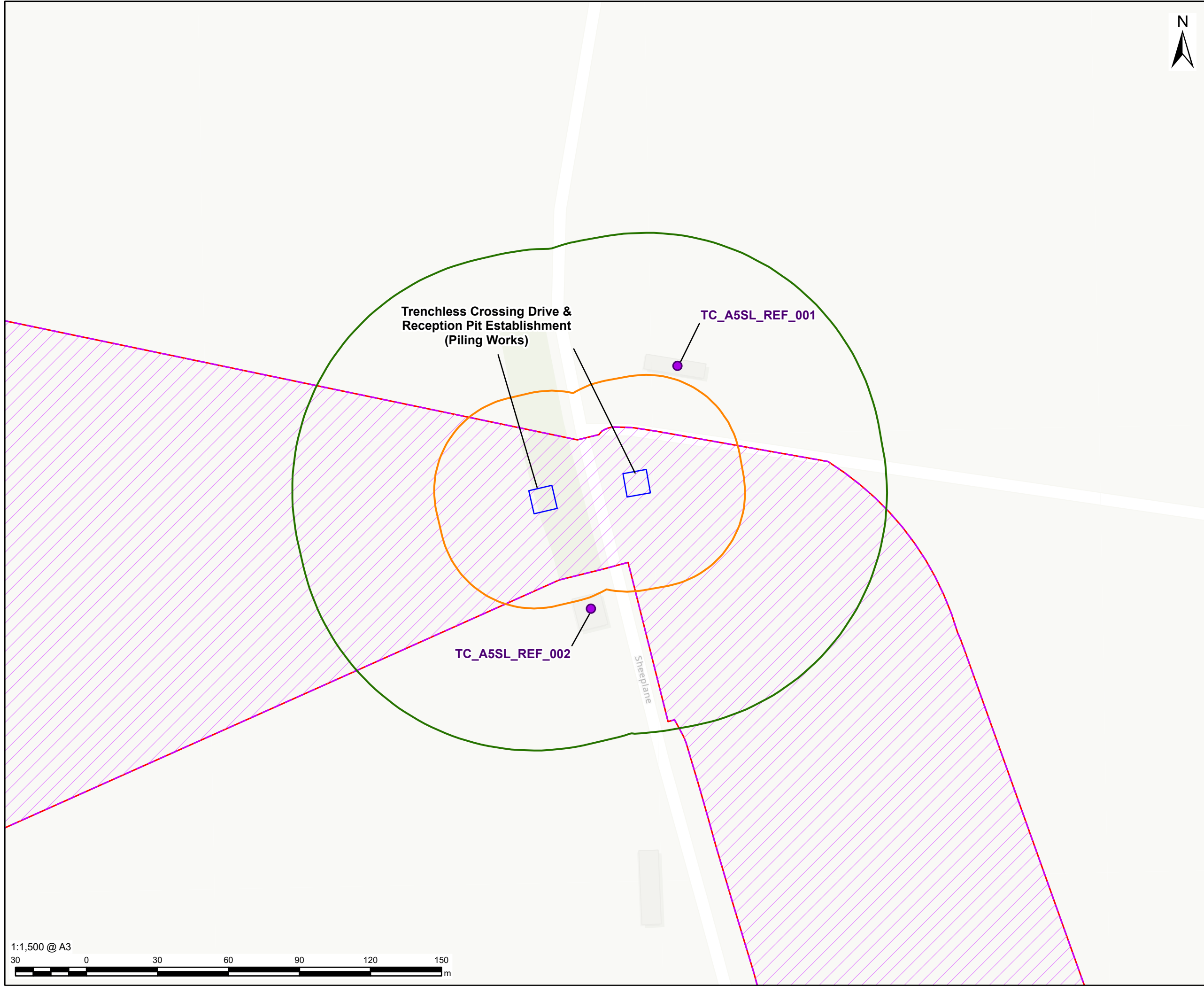
FIGURE TITLE

Vibration Risk - Trenchless Crossing Shafts
Sheet Y

FIGURE NUMBER

Figure 19-PD-3

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LEGEND

 Part 4b

 Preliminary Order Limits

 Receptors (Cluster)

 Area of Indicative Vibration Generating Activities

 LOAEL Buffer (100m from Vibration Generating Activities)

 SOAEL Buffer (40m from Vibration Generating Activities)



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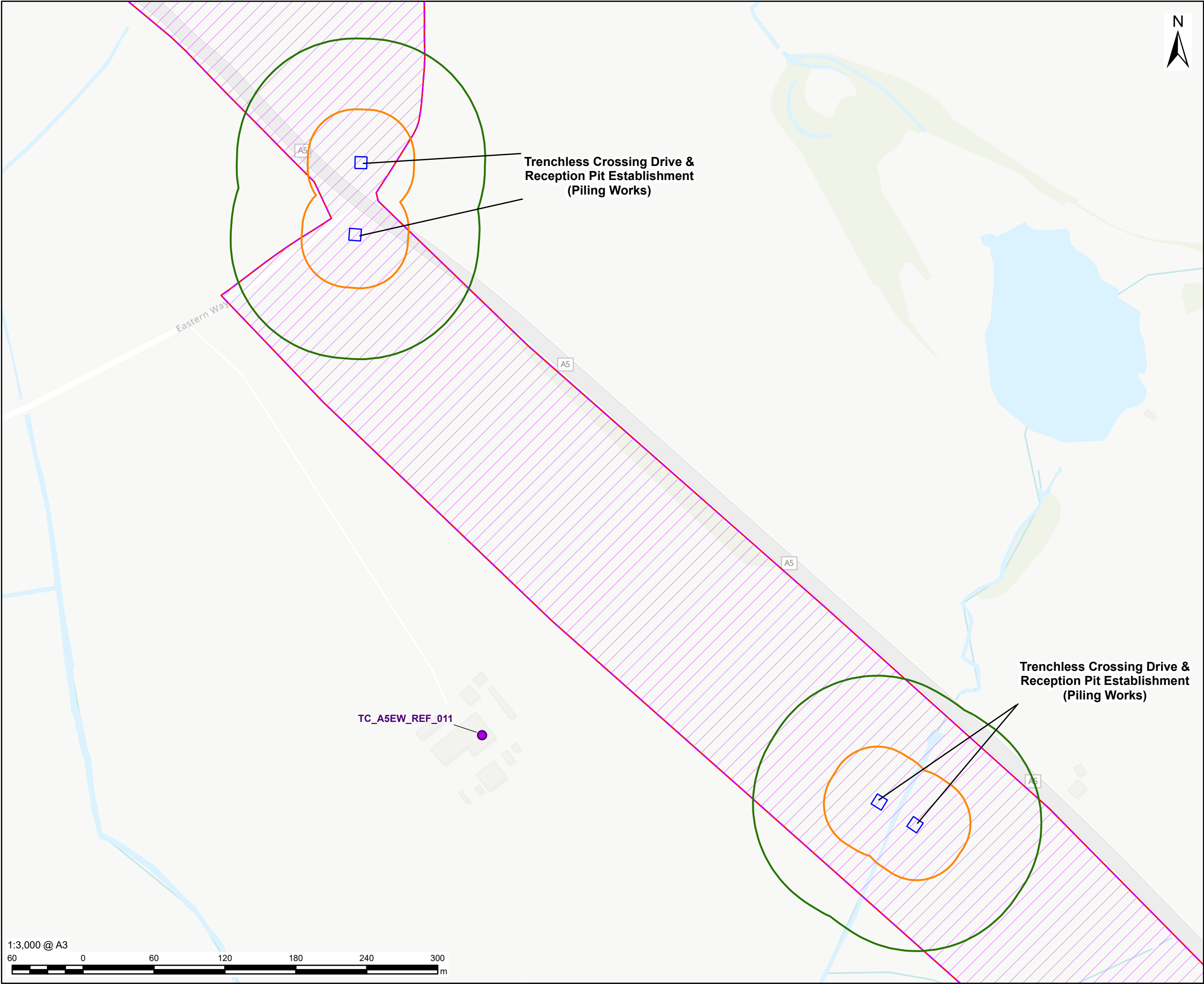
FIGURE TITLE

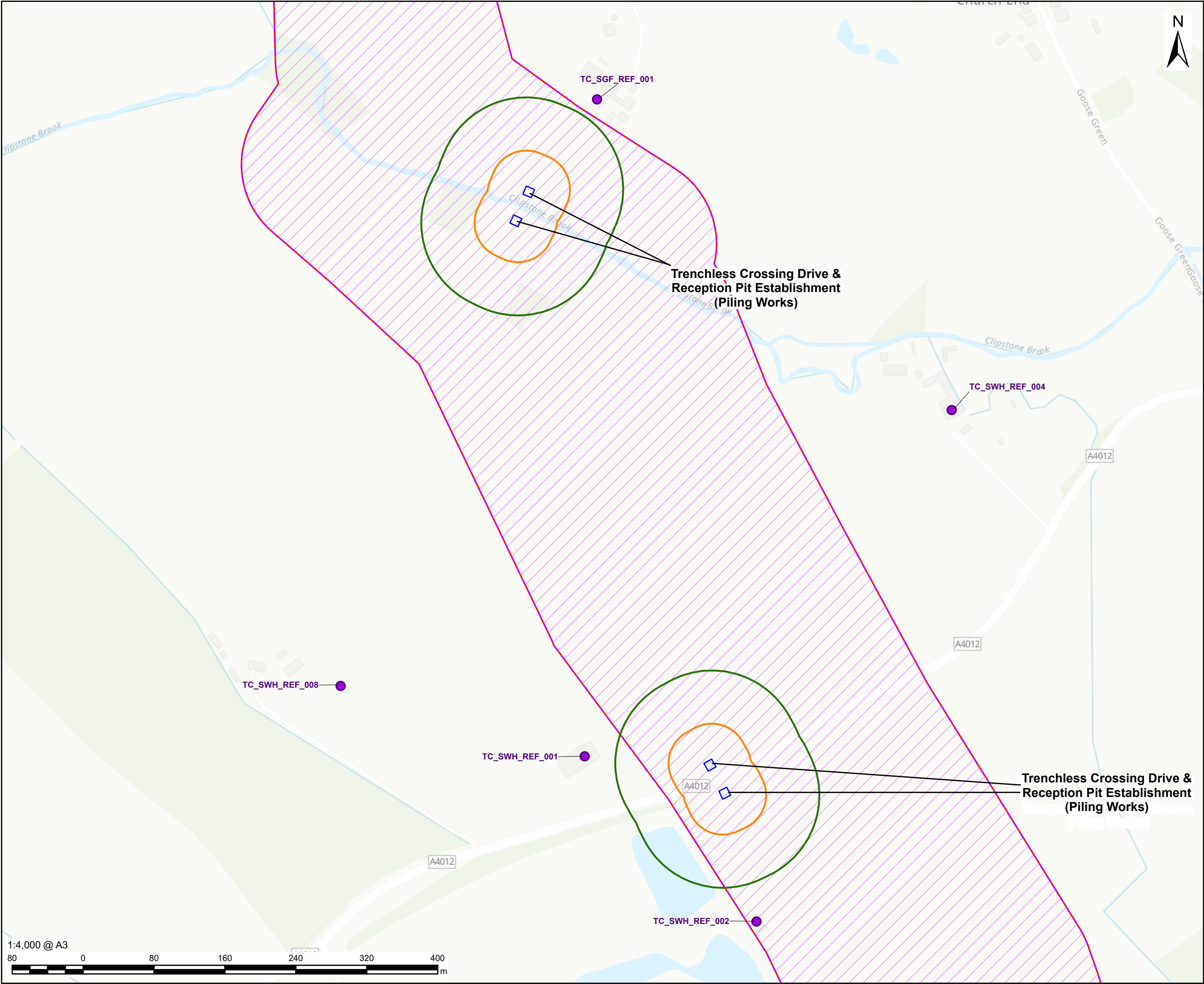
Vibration Risk - Trenchless Crossing Shafts
Sheet Z

FIGURE NUMBER

Figure 19-PD-3

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LEGEND

Part 4b

Preliminary Order Limits

Receptors (Cluster)

Area of Indicative Vibration
Generating Activities

LOAEL Buffer (100m from Vibration
Generating Activities)

SOAEL Buffer (40m from Vibration
Generating Activities)



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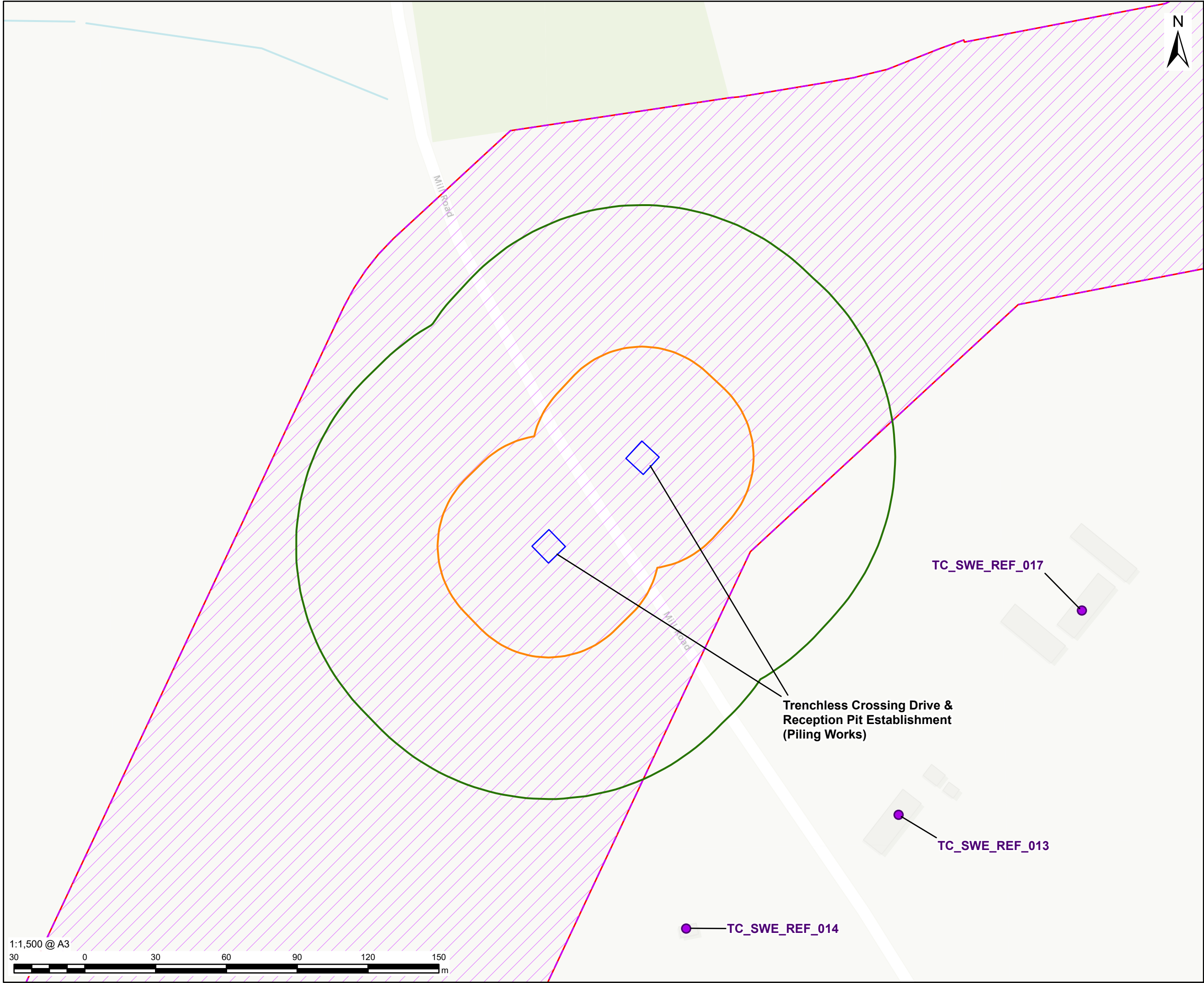
FIGURE TITLE

Vibration Risk - Trenchless Crossing
Shafts
Sheet AB

FIGURE NUMBER

Figure 19-PD-3

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LEGEND

Part 4b
 Preliminary Order Limits
 Receptors (Cluster)
 Area of Indicative Vibration Generating Activities
 LOAEL Buffer (100m from Vibration Generating Activities)
 SOAEL Buffer (40m from Vibration Generating Activities)



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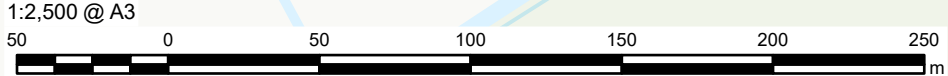
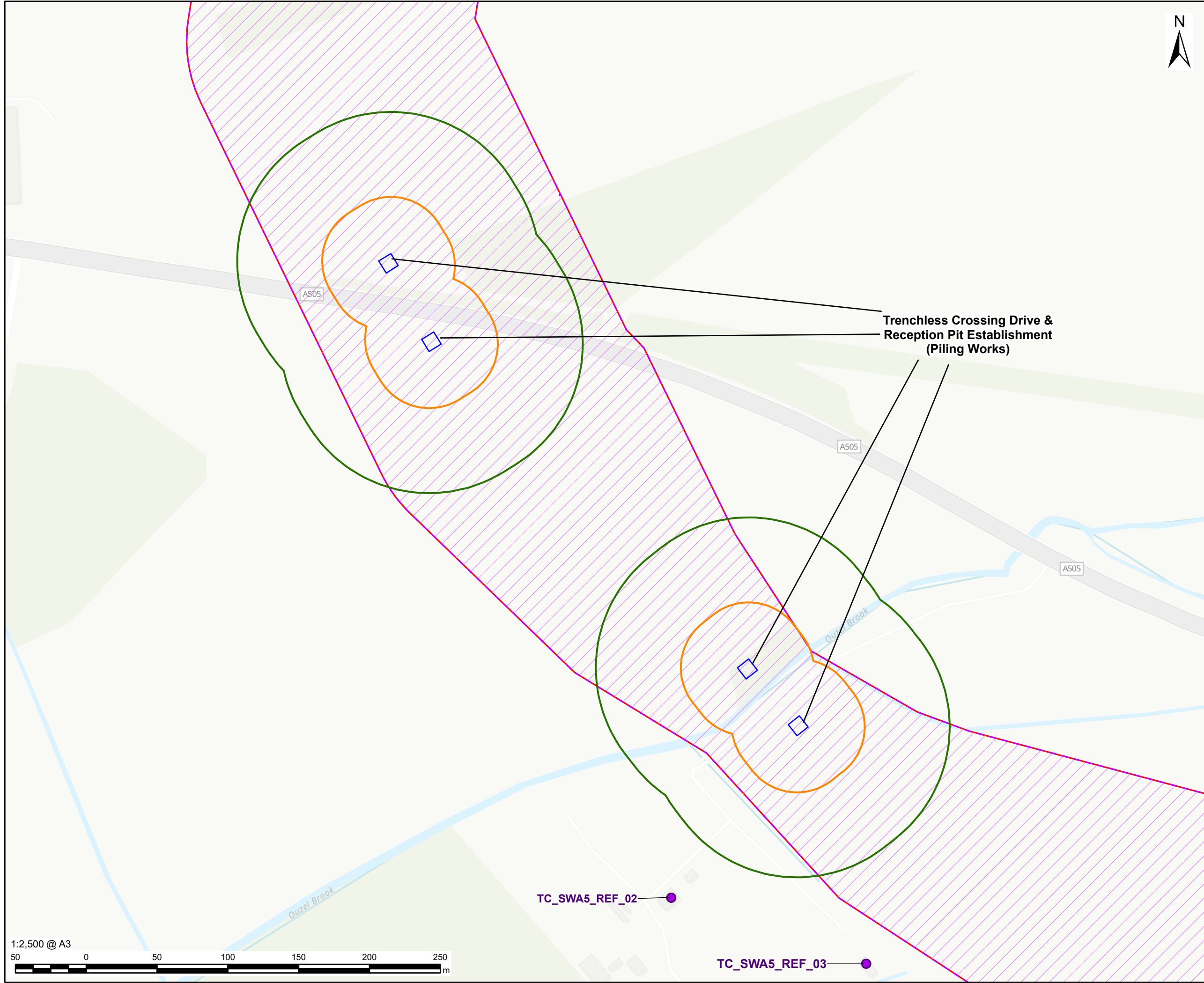
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FIGURE TITLE

Vibration Risk - Trenchless Crossing Shafts
 Sheet AC

FIGURE NUMBER

Figure 19-PD-3



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LEGEND

Part 4b
 Preliminary Order Limits
 Receptors (Cluster)
 Area of Indicative Vibration Generating Activities
 LOAEL Buffer (100m from Vibration Generating Activities)
 SOAEL Buffer (40m from Vibration Generating Activities)



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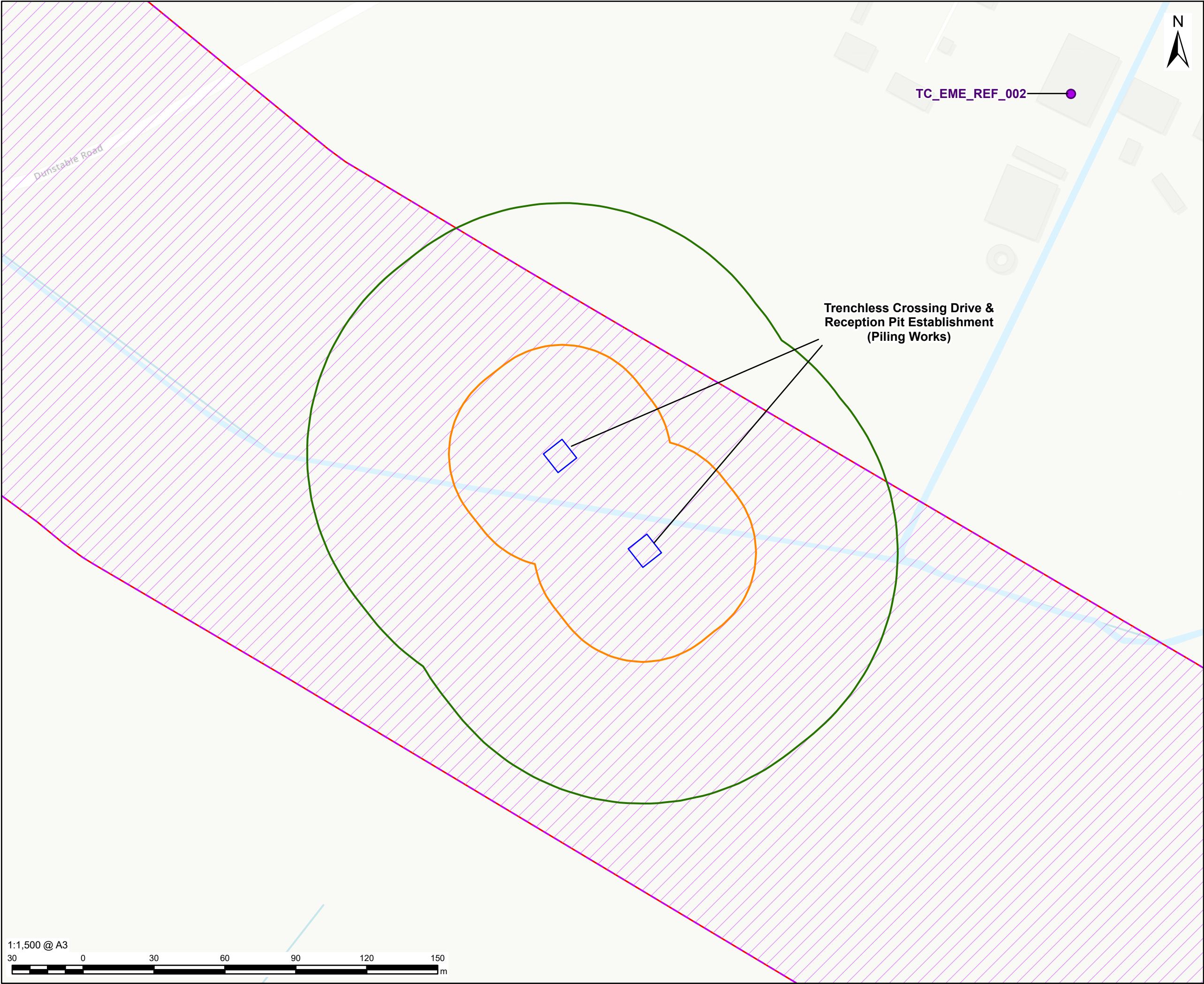
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FIGURE TITLE

Vibration Risk - Trenchless Crossing Shafts Sheet AD

FIGURE NUMBER

Figure 19-PD-3



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- LEGEND**
- Part 4b
 - Preliminary Order Limits
 - Receptors (Cluster)
 - Area of Indicative Vibration Generating Activities
 - LOAEL Buffer (100m from Vibration Generating Activities)
 - SOAEL Buffer (40m from Vibration Generating Activities)



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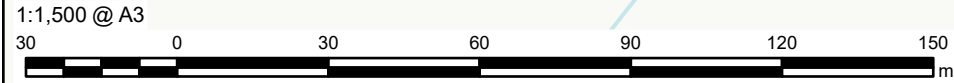
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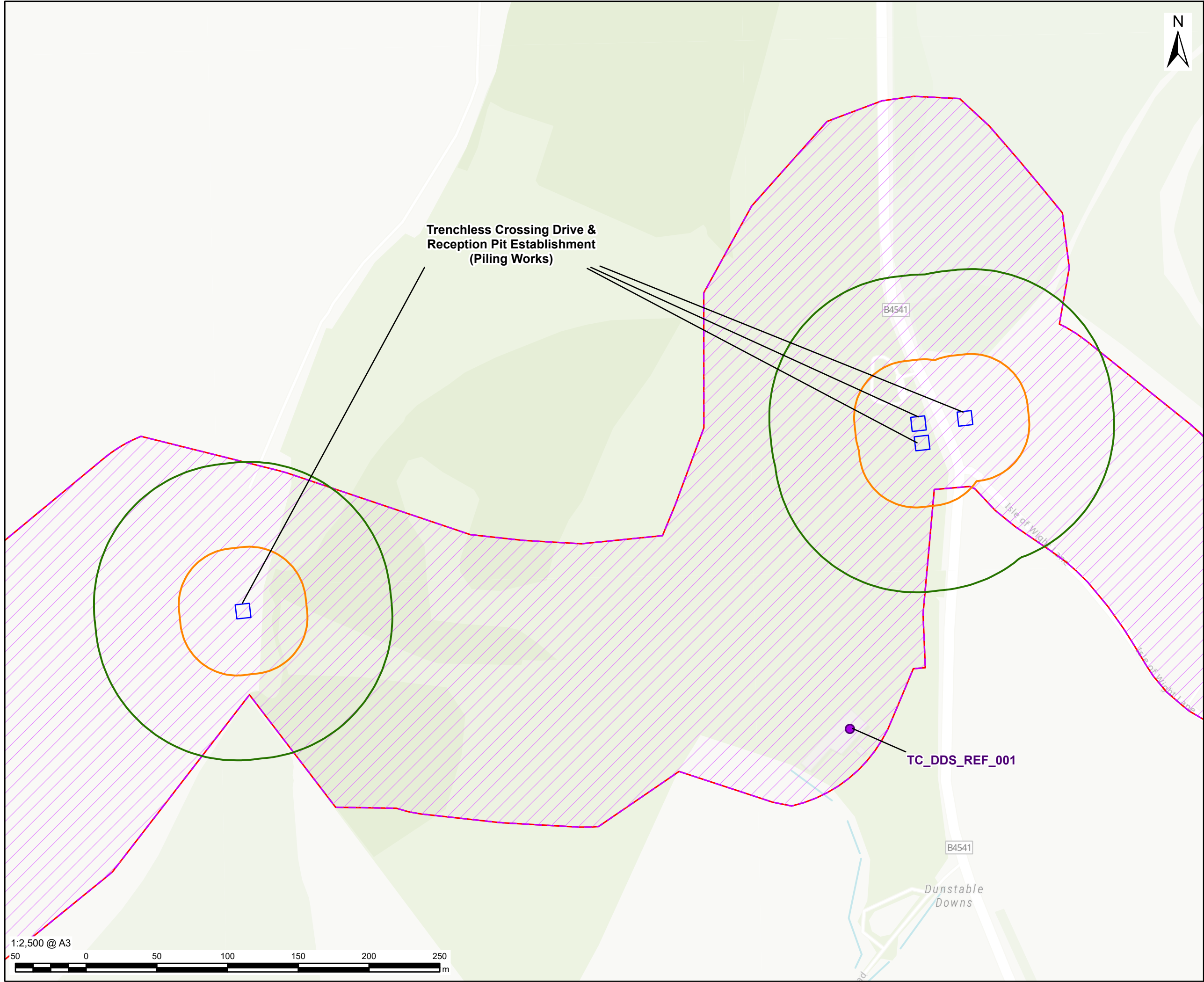
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FIGURE TITLE
Vibration Risk - Trenchless Crossing Shafts
Sheet AE

FIGURE NUMBER
Figure 19-PD-3



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- LEGEND**
- Part 4b
 - Preliminary Order Limits
 - Receptors (Cluster)
 - Area of Indicative Vibration Generating Activities
 - LOAEL Buffer (100m from Vibration Generating Activities)
 - SOAEL Buffer (40m from Vibration Generating Activities)



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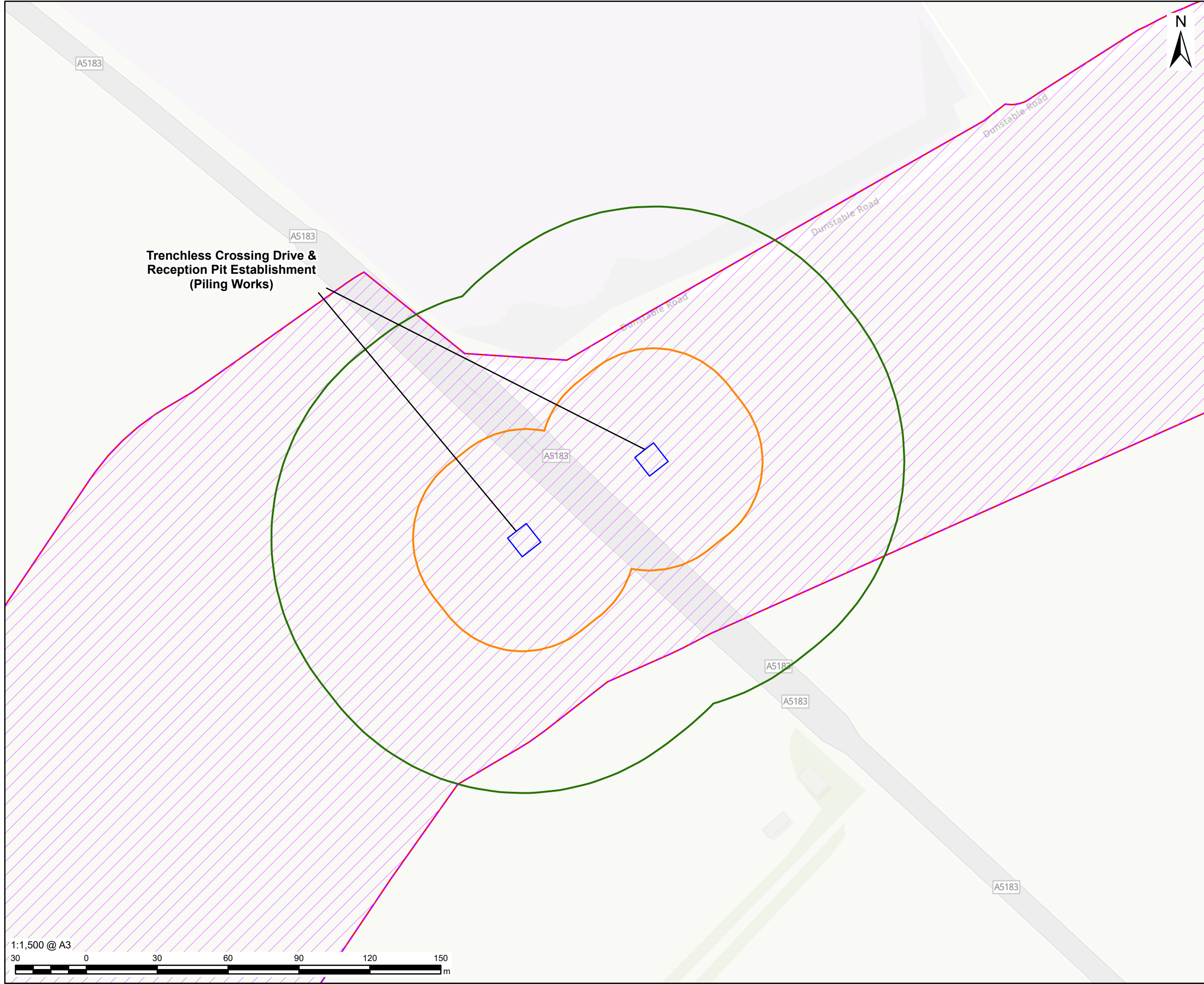
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FIGURE TITLE
Vibration Risk - Trenchless Crossing Shafts
Sheet AF

FIGURE NUMBER
Figure 19-PD-3

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- LEGEND**
- Part 4b
 - Preliminary Order Limits
 - Area of Indicative Vibration Generating Activities
 - LOAEL Buffer (100m from Vibration Generating Activities)
 - SOAEL Buffer (40m from Vibration Generating Activities)



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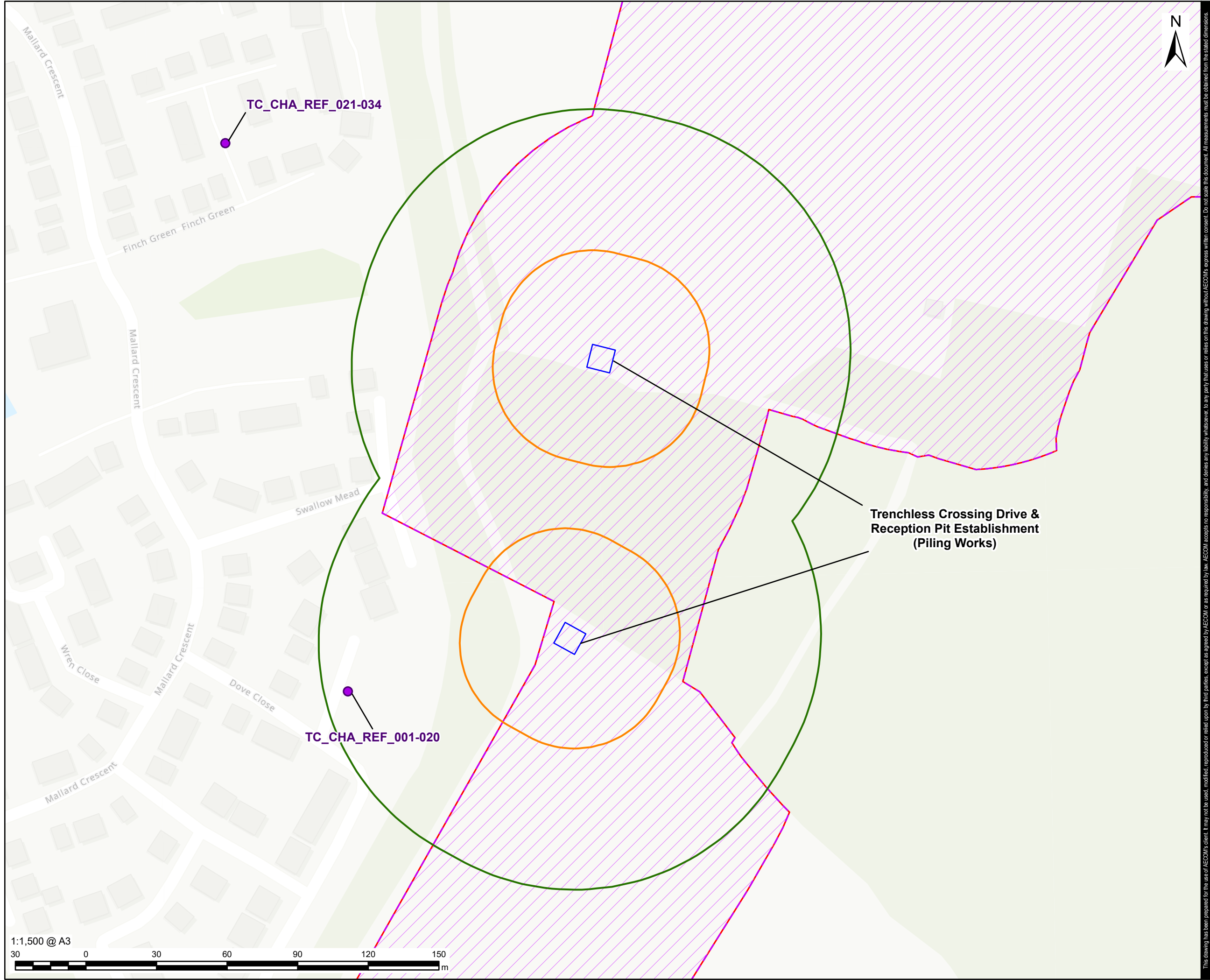
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FIGURE TITLE
Vibration Risk - Trenchless Crossing Shafts
Sheet AG

FIGURE NUMBER
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LEGEND

- Part 4b
- Preliminary Order Limits
- Receptors (Cluster)
- Area of Indicative Vibration Generating Activities
- LOAEL Buffer (100m from Vibration Generating Activities)
- SOAEL Buffer (40m from Vibration Generating Activities)

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PROJECT NUMBER

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FIGURE TITLE

Vibration Risk - Trenchless Crossing Shafts
Sheet AH

FIGURE NUMBER

Figure 19-PD-3