

AENC-ARC-ENV-REP-0020

Norwich to Tilbury

Volume 6: Environmental Statement

Document: 6.11.A4 Environmental Statement Appendix 11.4 -
Geophysical Survey (Priority Areas) Results Report -
Tracked Changes Version - Part 9

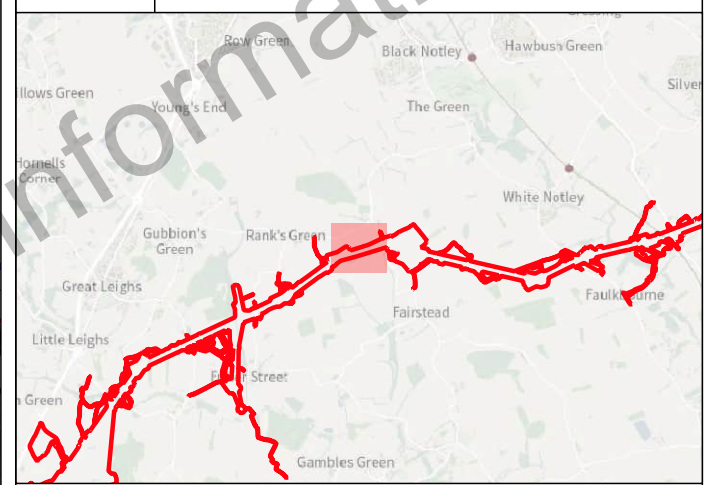
Final Issue C

May 2026

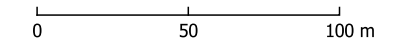
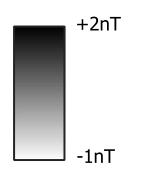
Planning Inspectorate Reference: EN020027

Infrastructure Planning (Applications: Prescribed Forms and Procedure)
Regulations 2009 Regulation 5(2)(a)

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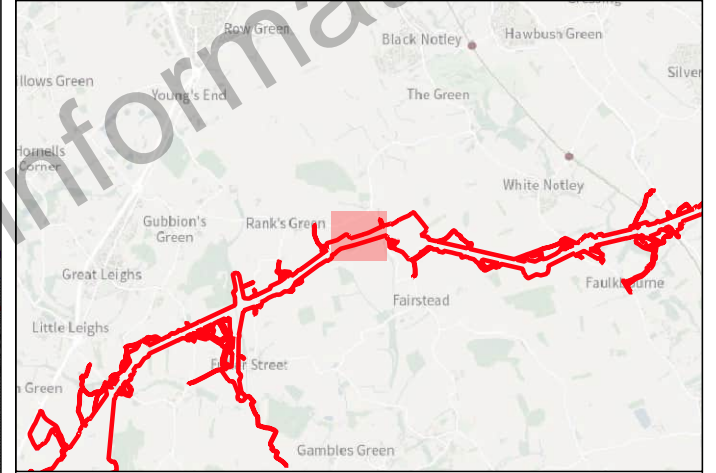


- Key**
- ▭ Order Limits
 - ▭ Geophysical Survey Area
 - ▭ Survey Extent
 - Proposed Overhead Line Alignment
 - Proposed Pylon Location

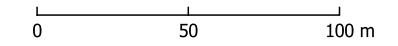


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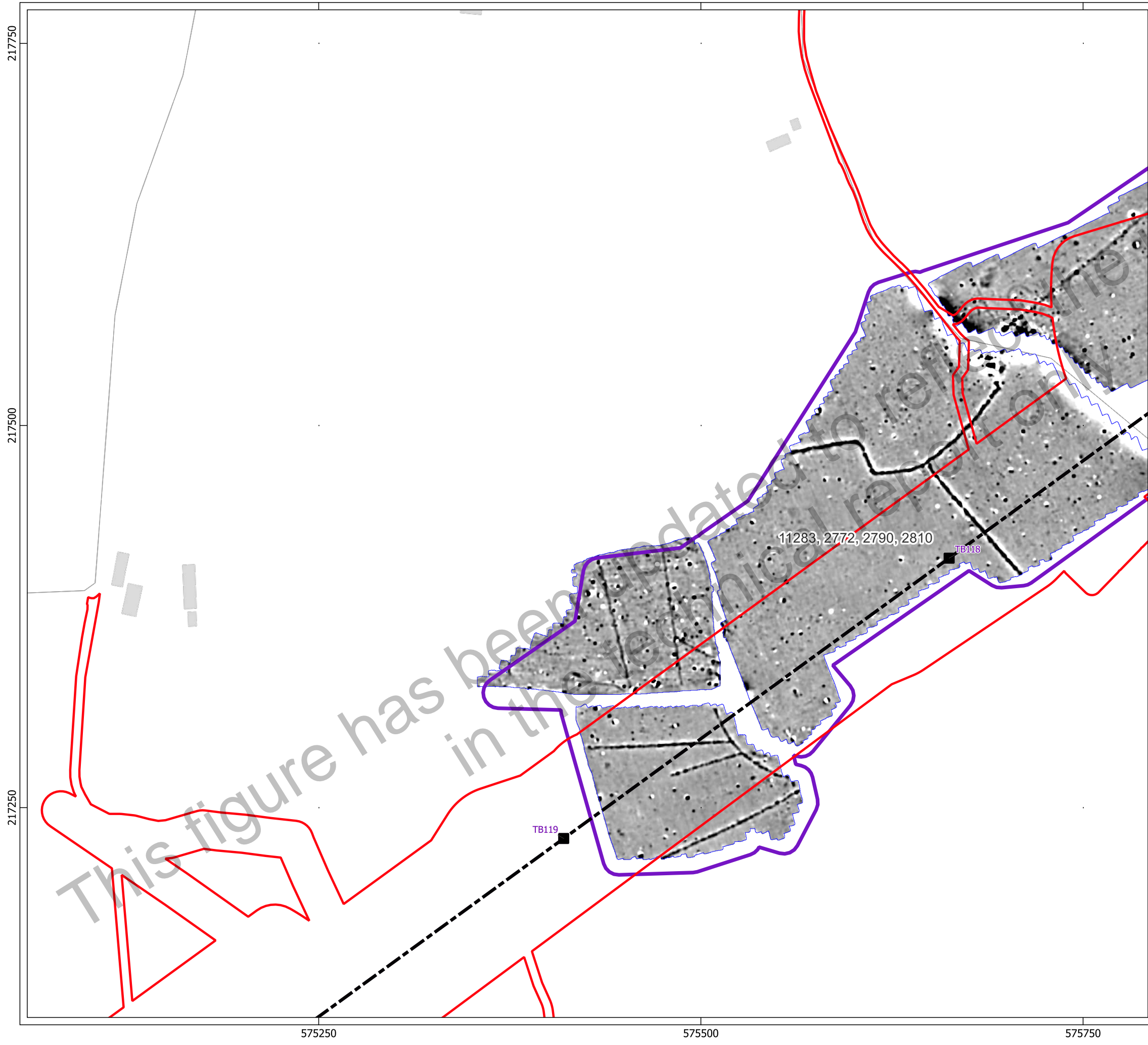


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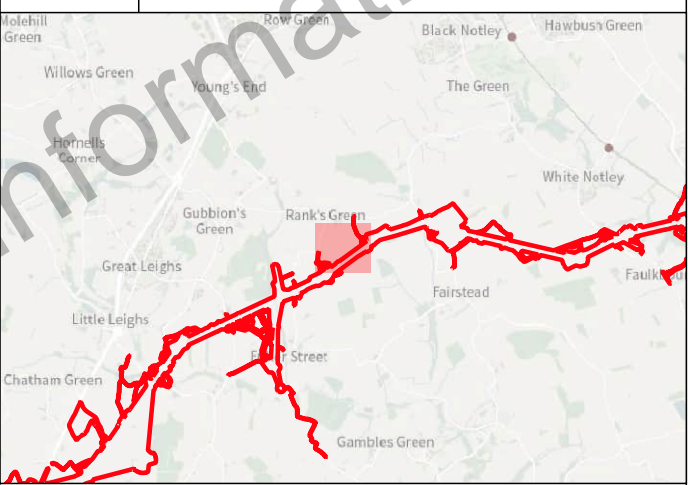
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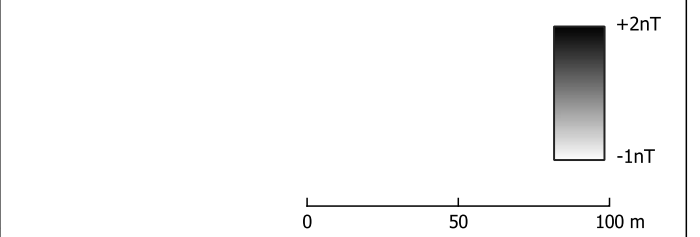


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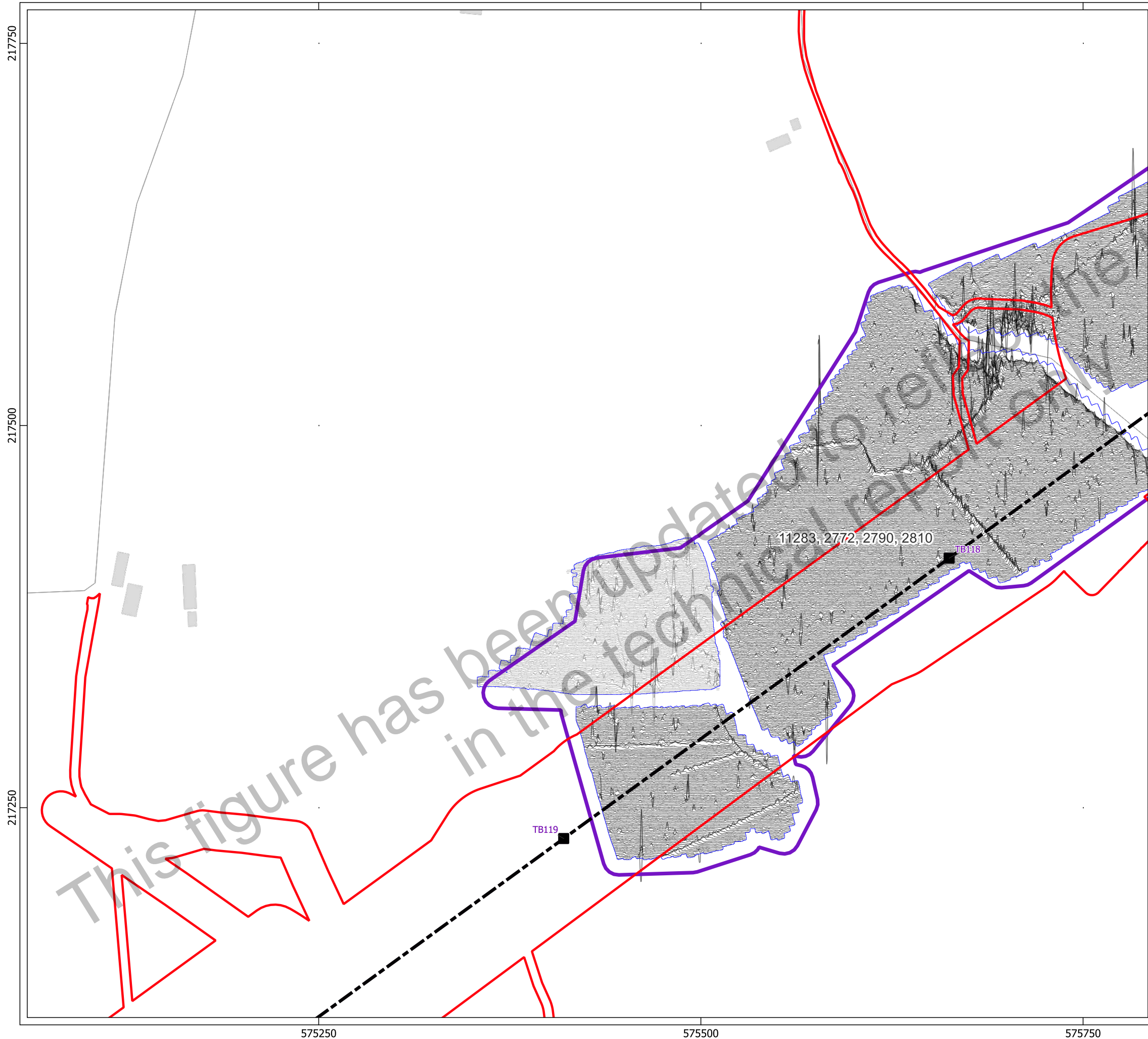


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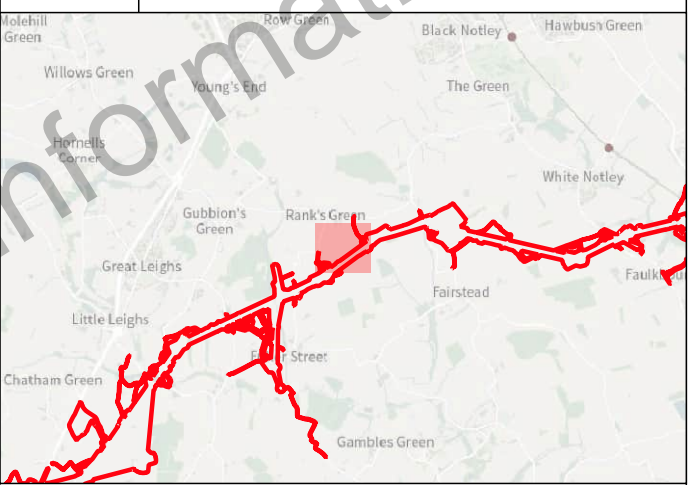
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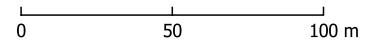




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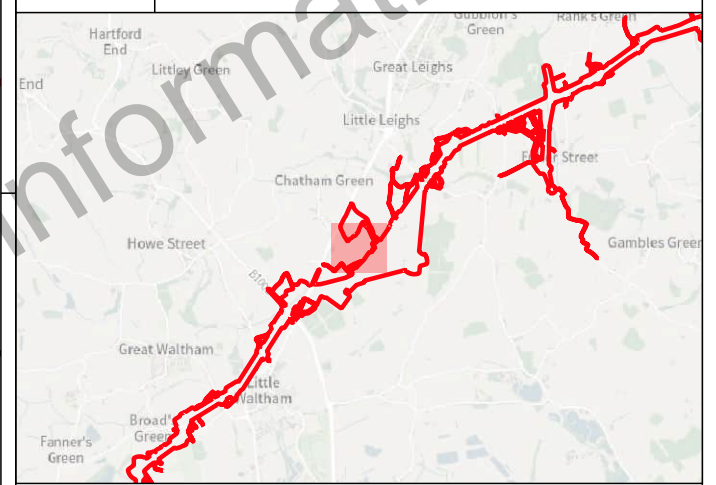
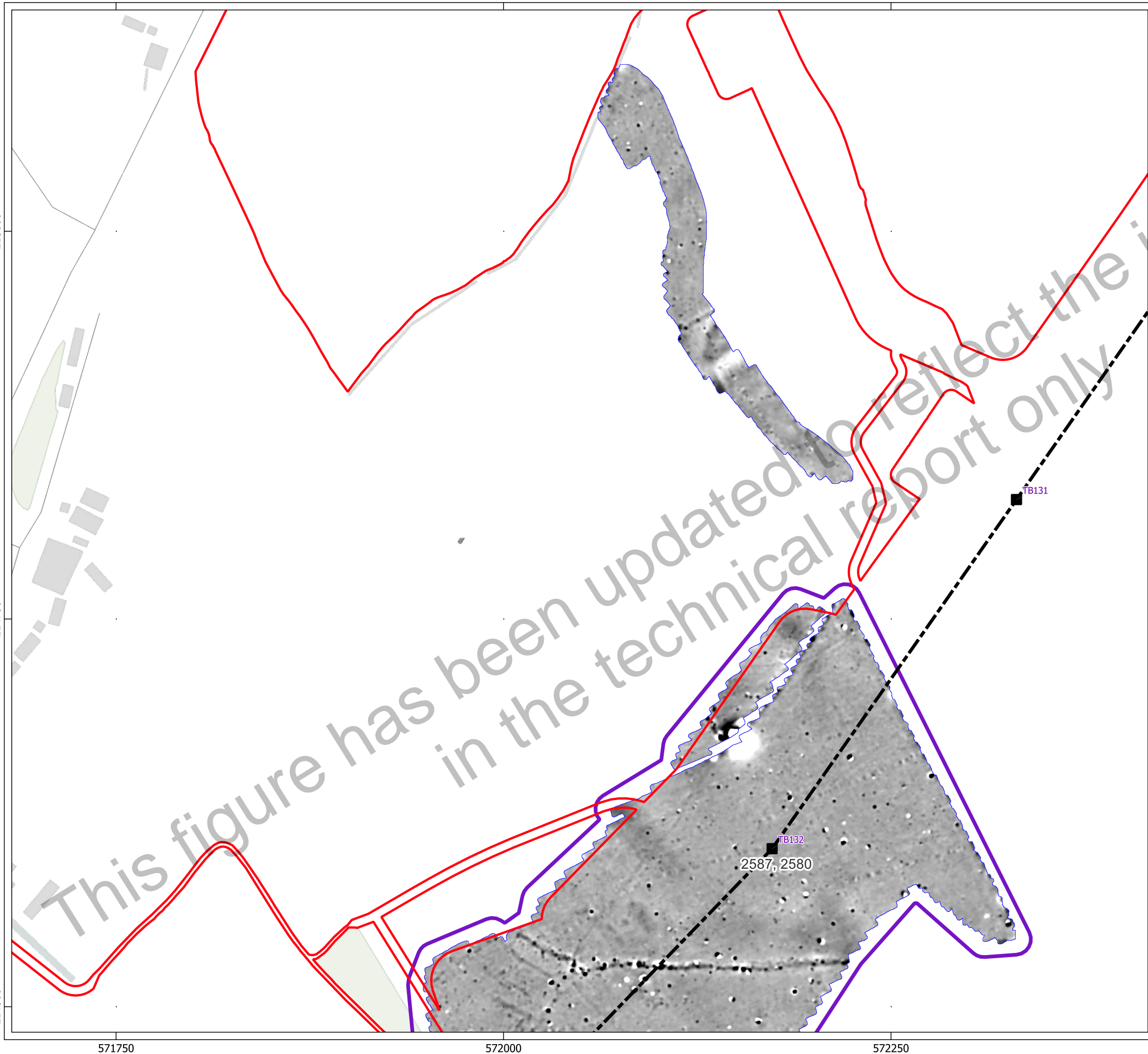


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 - XY Trace (25nT/cm)

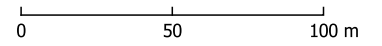
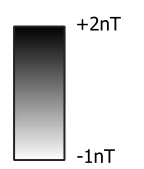


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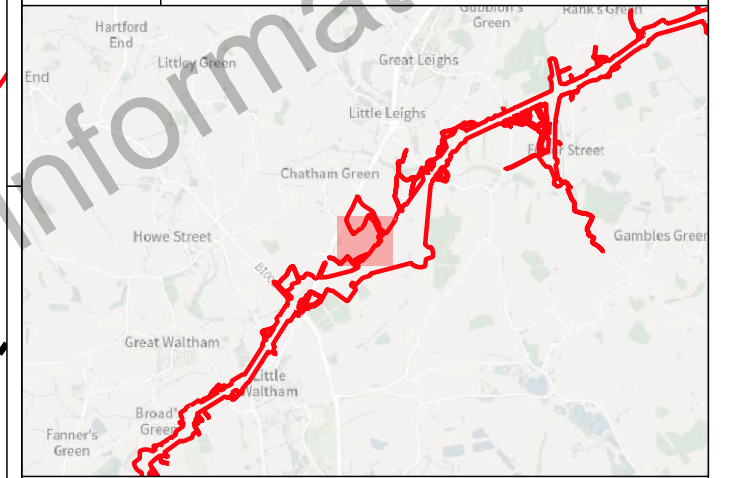
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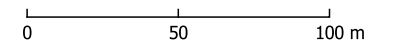
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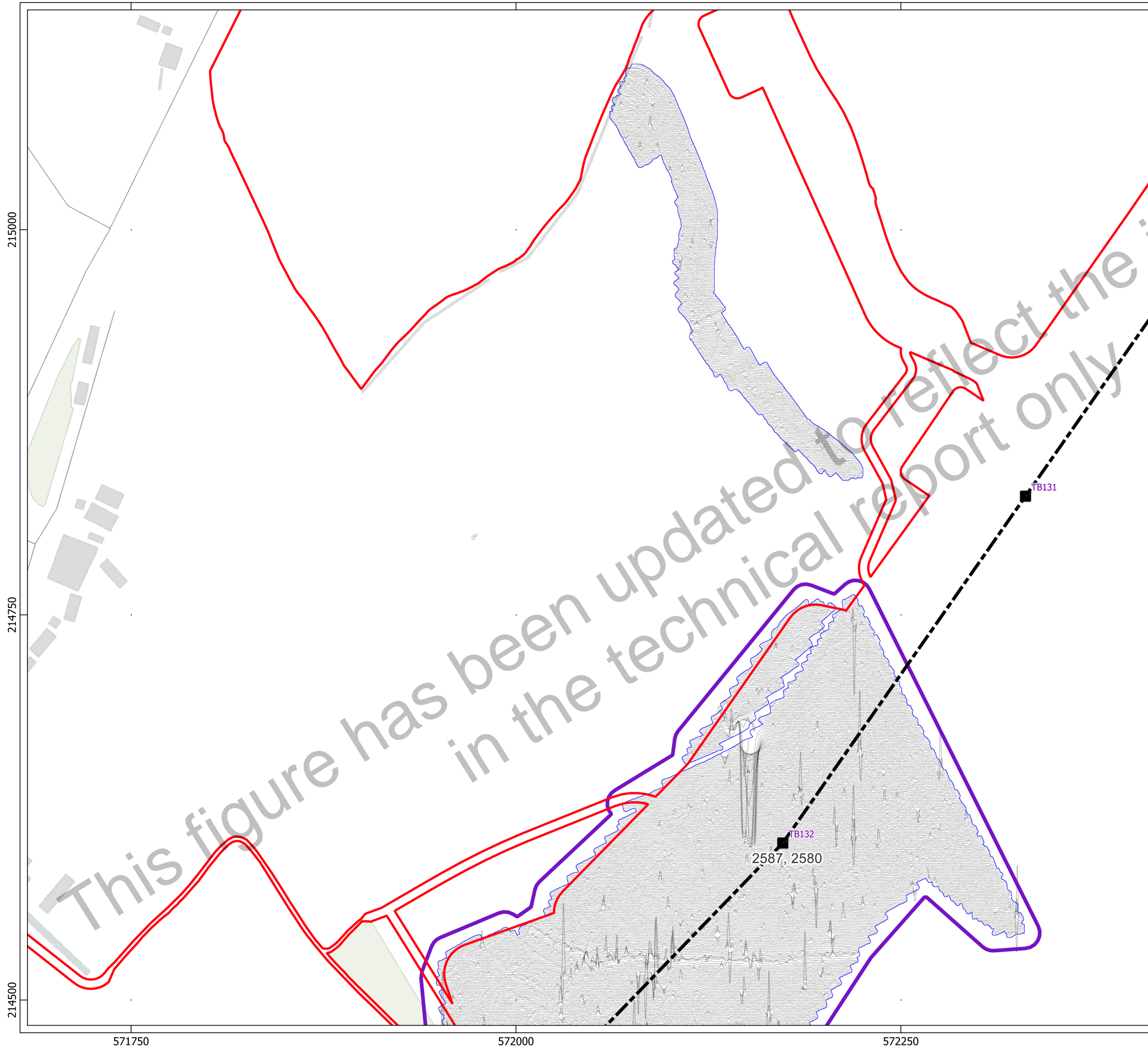
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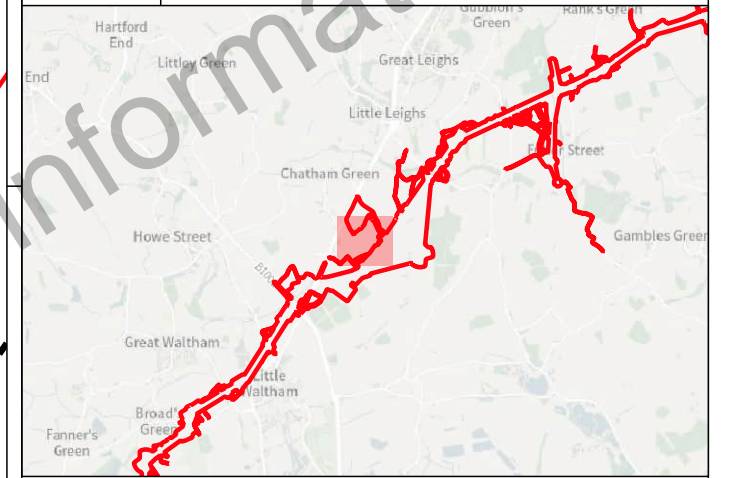
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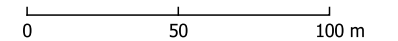


Key

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- Proposed Pylon Location

Geophys Interpretation

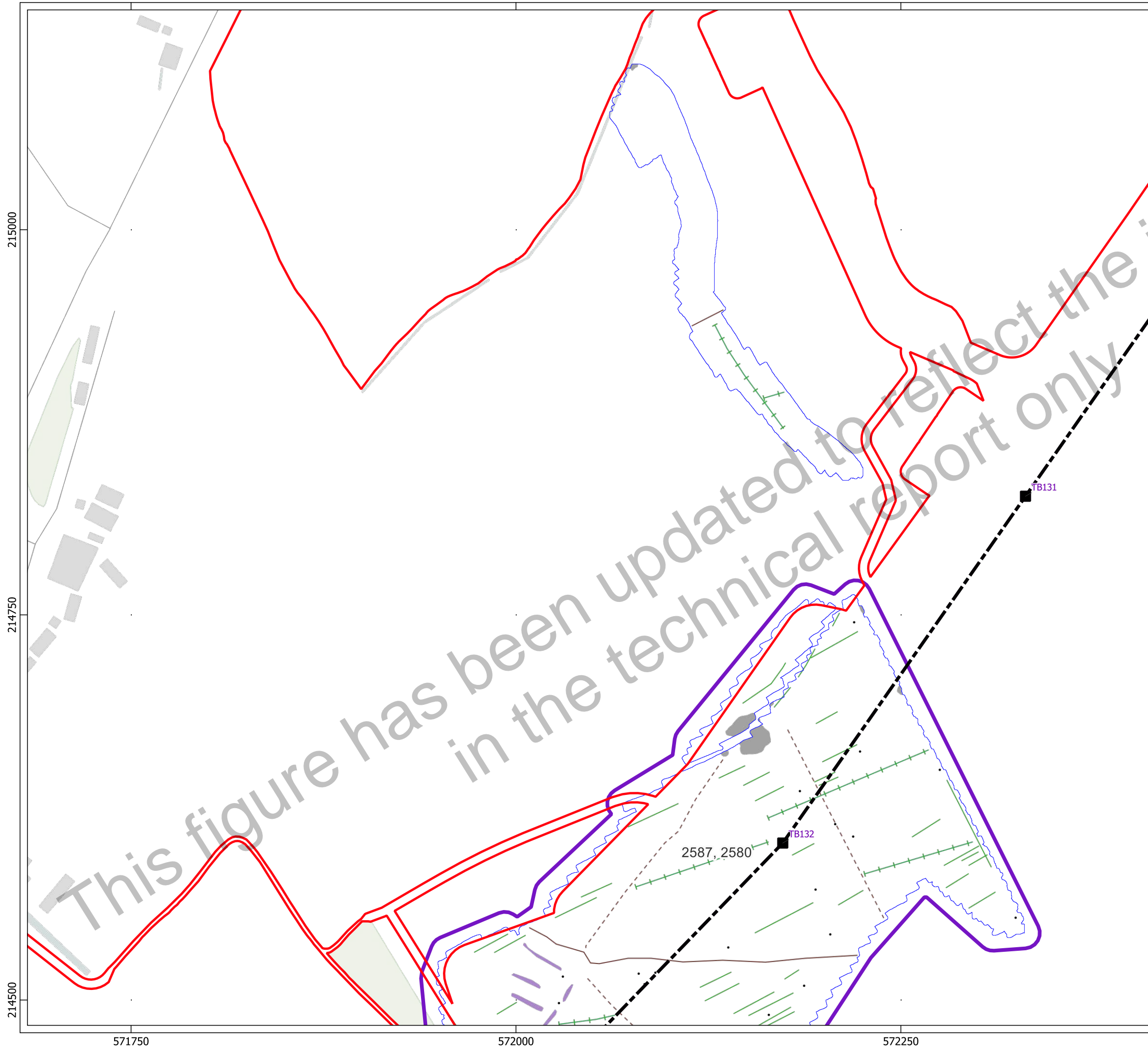
- Ferrous Objects
- Agriculture
- Field Boundary
- - - Possible Field Boundary
- + Field Drain
- Magnetic Disturbance (Above Ground)
- Uncertain



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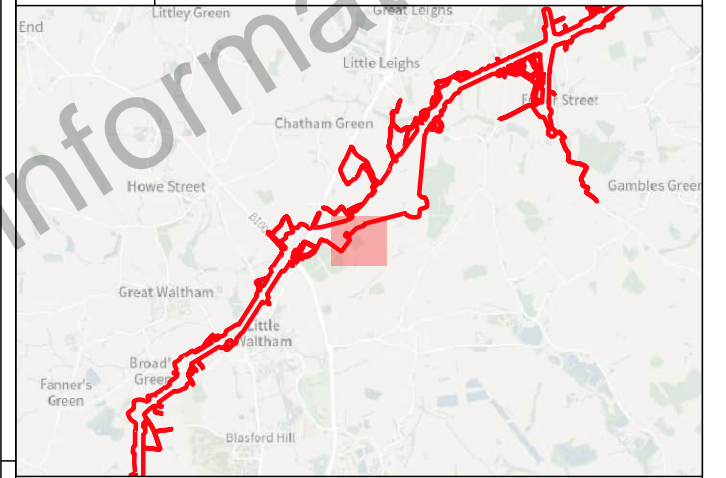
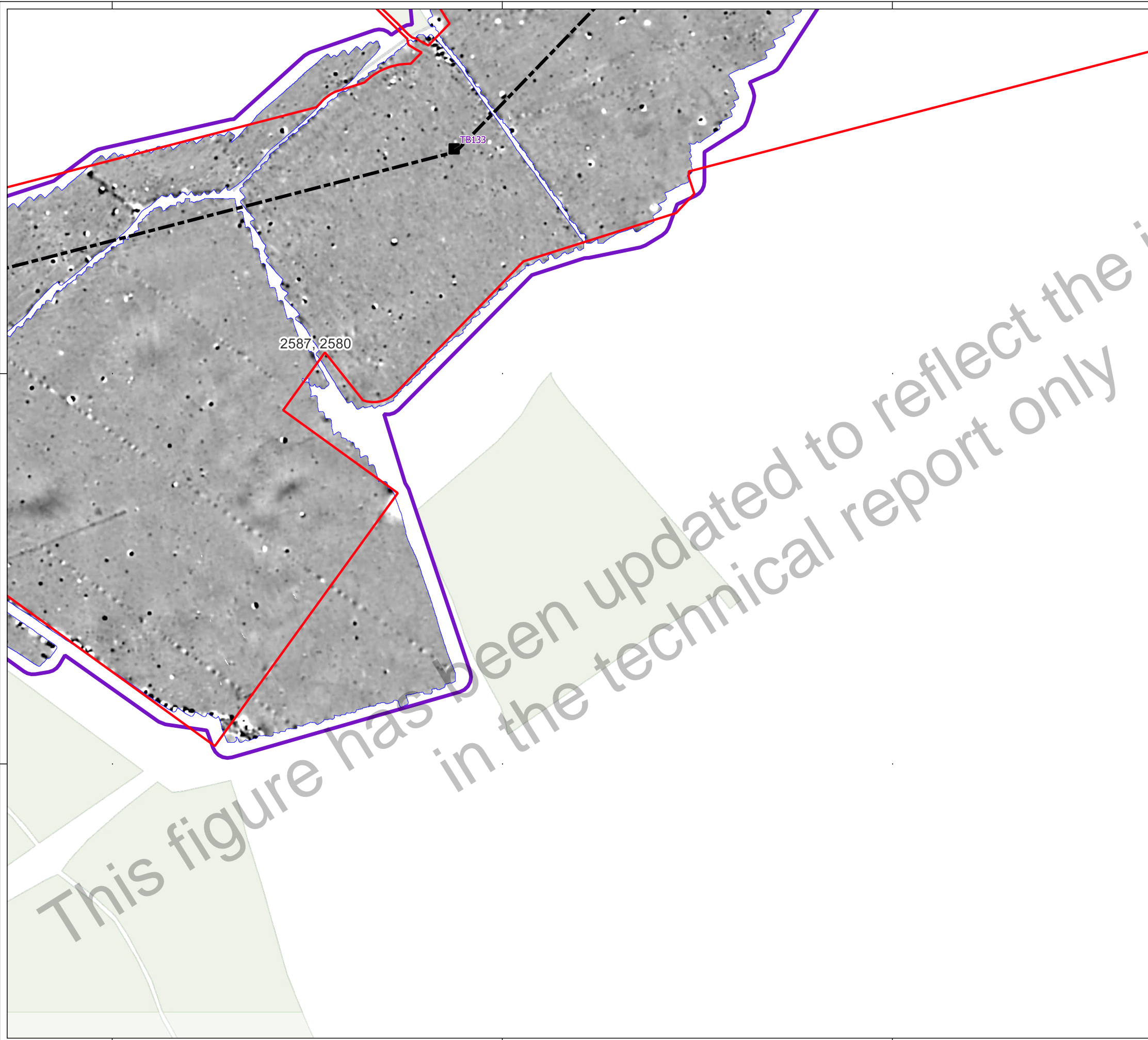
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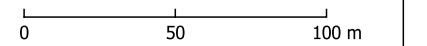
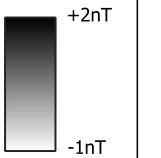
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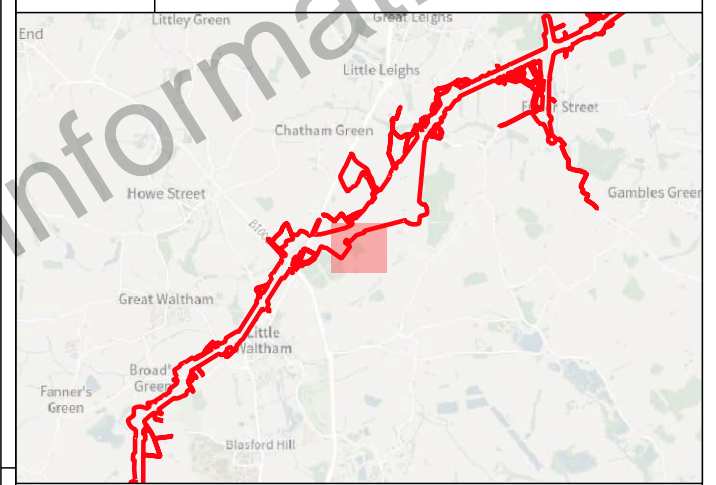
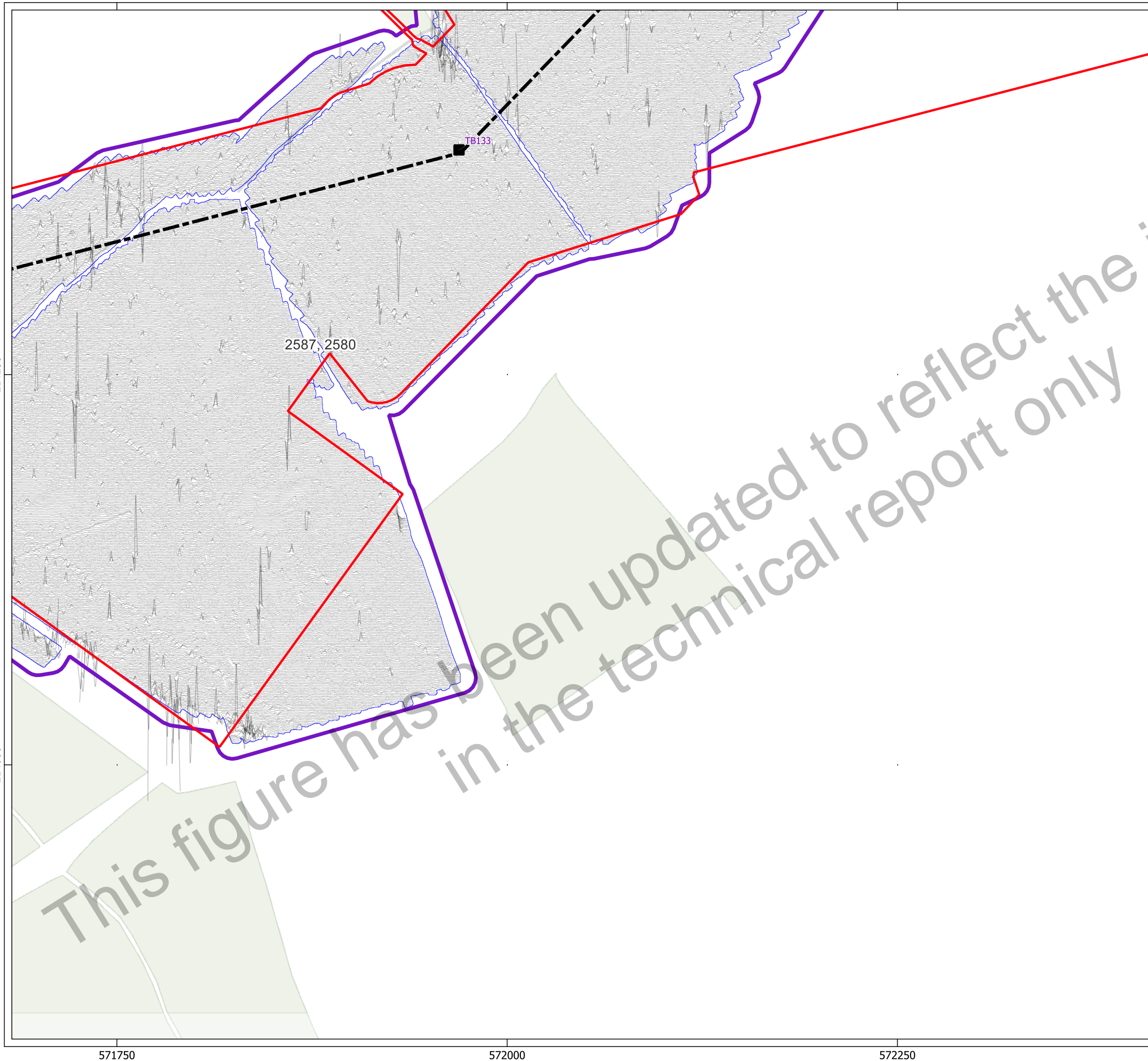


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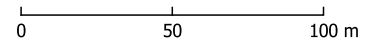


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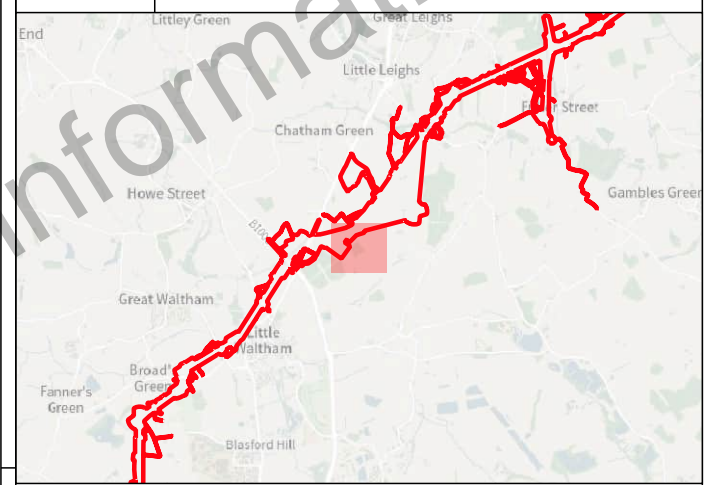
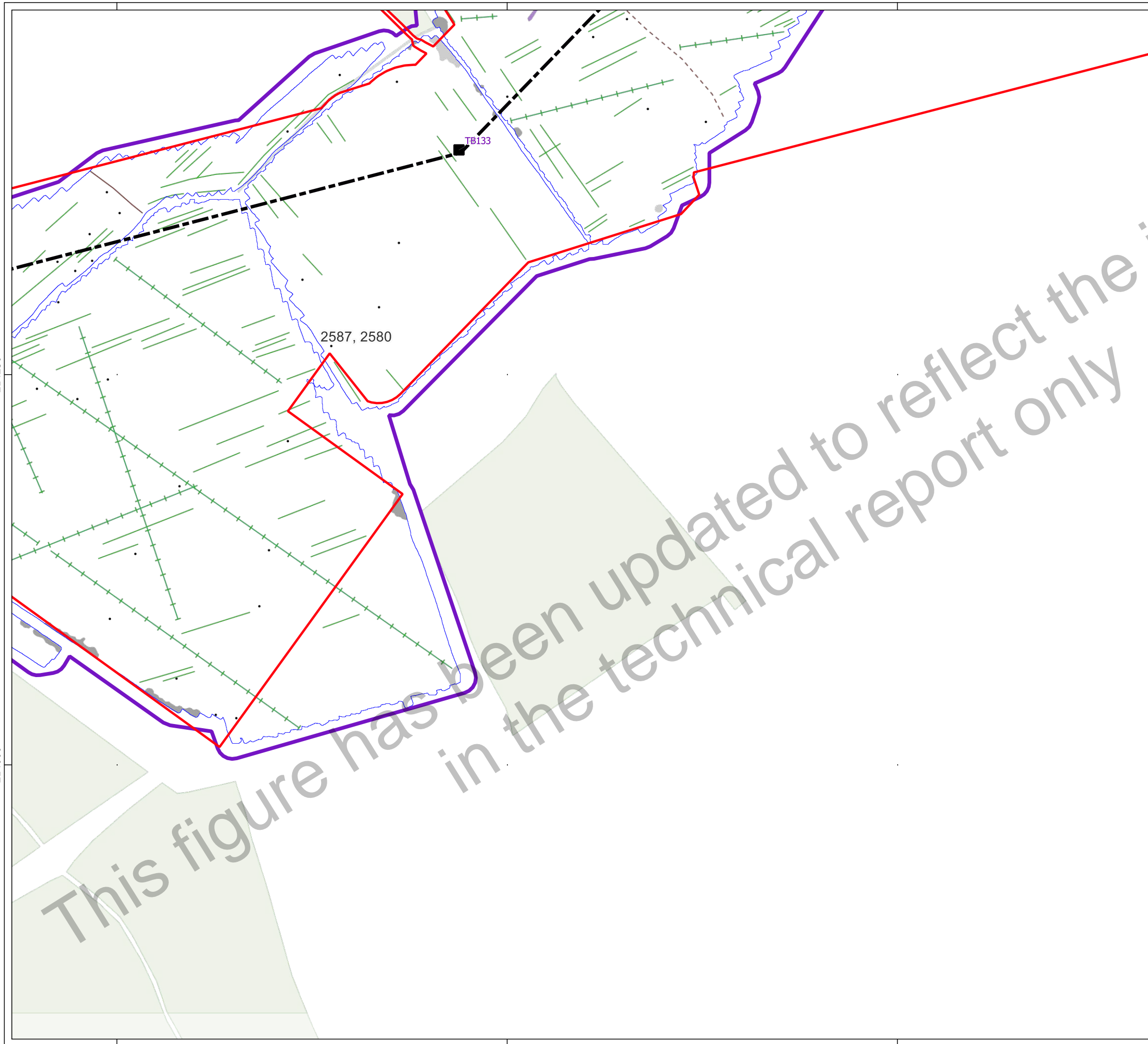
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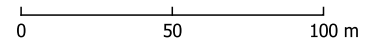
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Key

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- Geophys Interpretation**
- Ferrous Objects
 - Agriculture
 - Field Boundary
 - Possible Field Boundary
 - Field Drain
 - Magnetic Disturbance (Above Ground)
 - Magnetic Disturbance (Below Ground)
 - Uncertain



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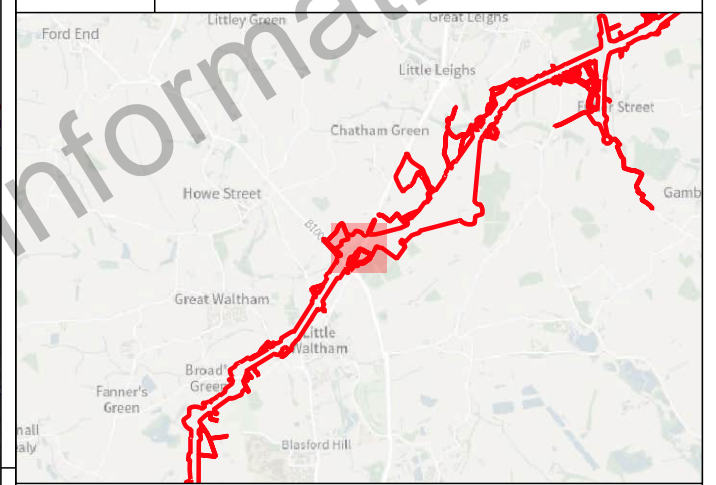
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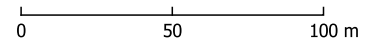
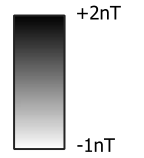
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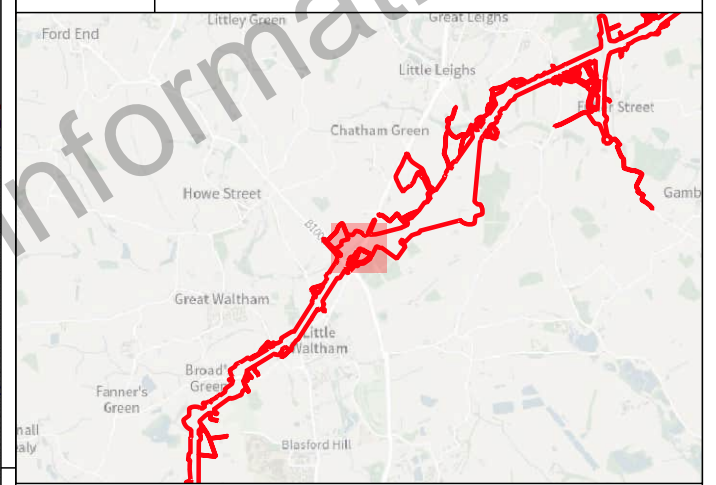
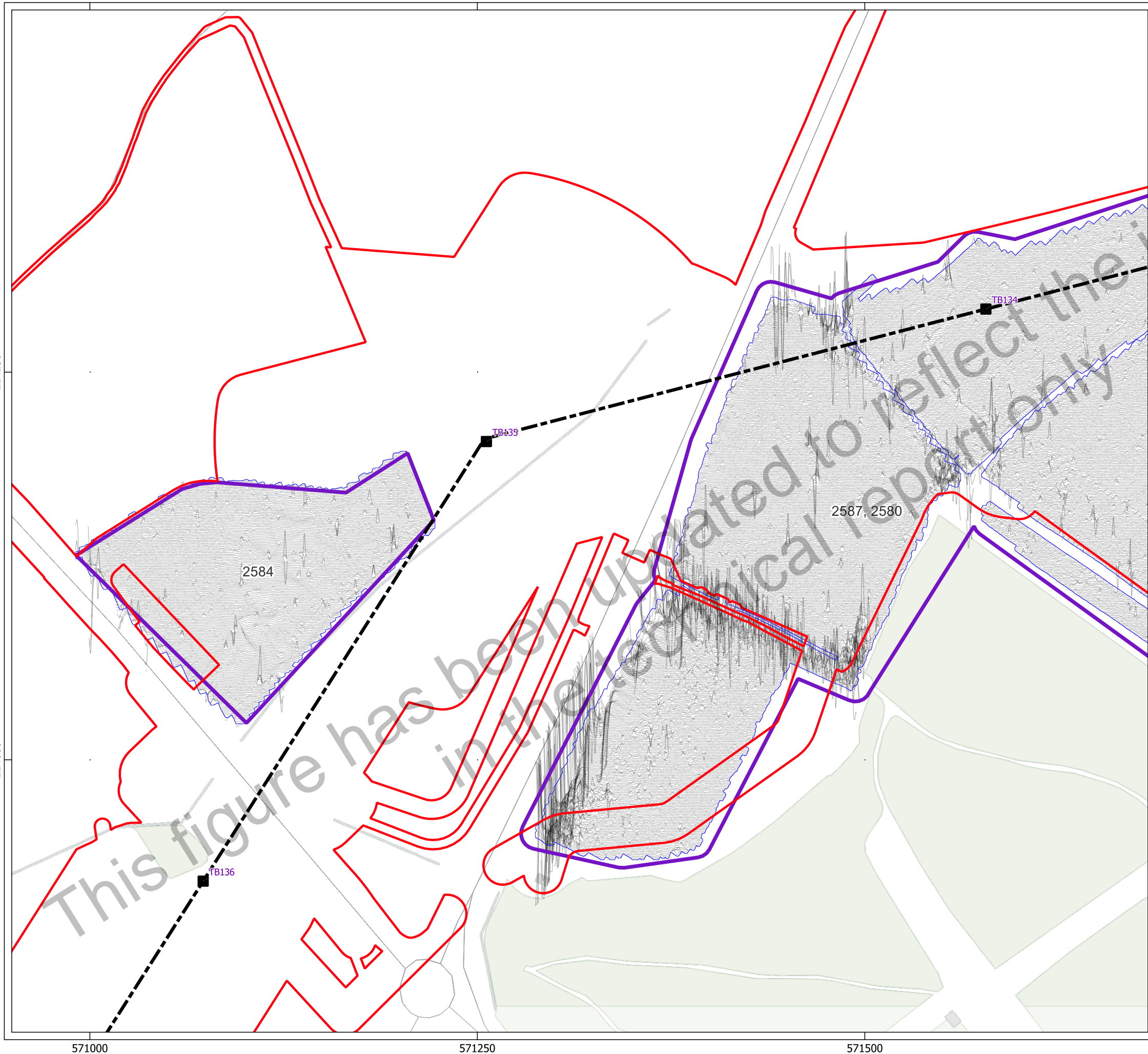
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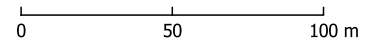
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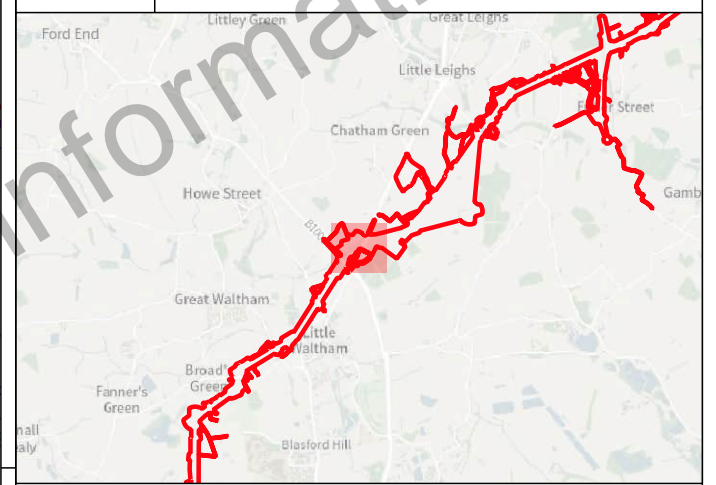
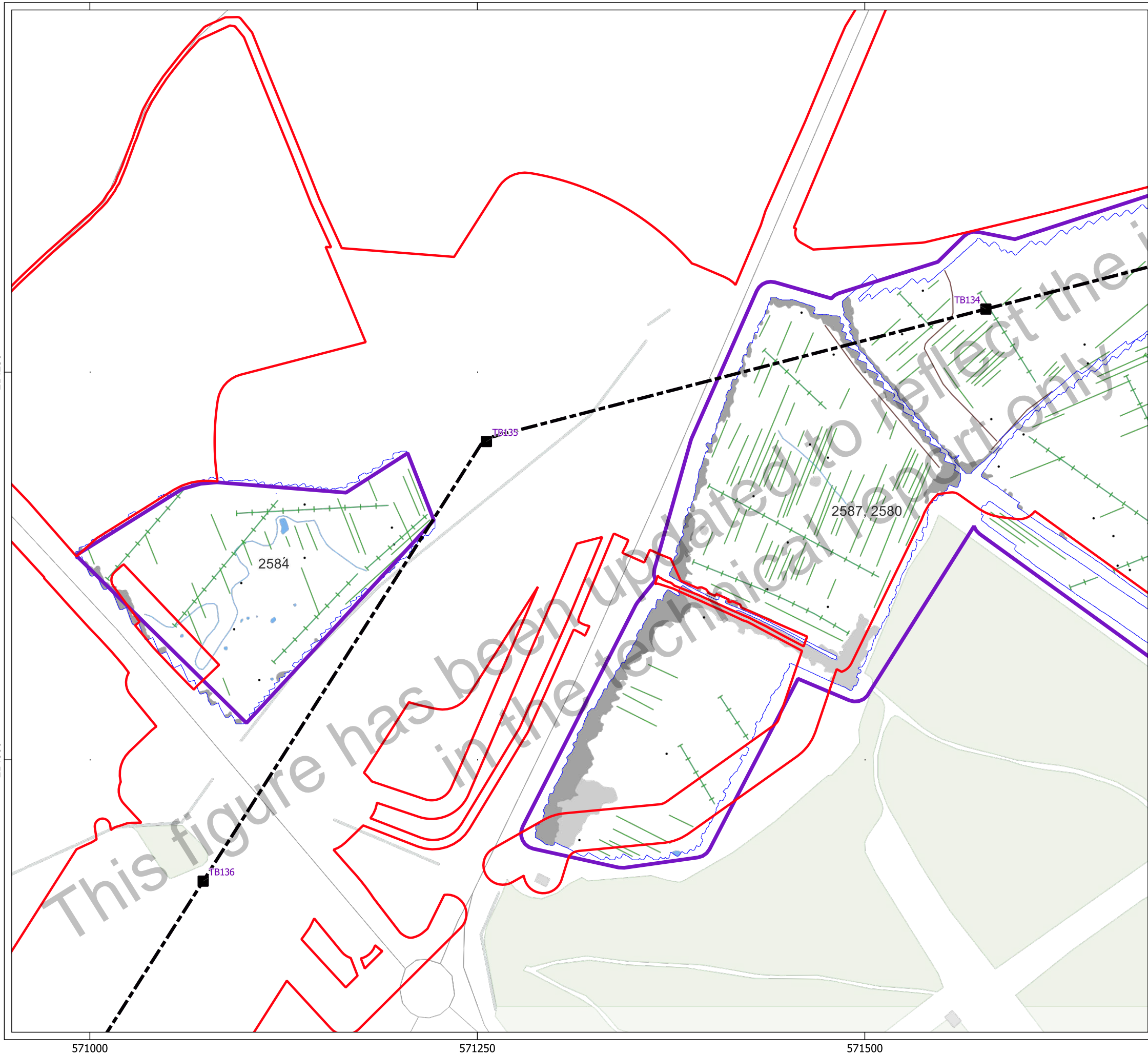
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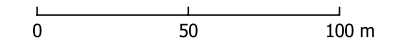
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- Ferrous Objects
 - Agriculture
 - Field Boundary
 - + Field Drain
 - Natural
 - Magnetic Disturbance (Above Ground)
 - Magnetic Disturbance (Below Ground)
 - Natural



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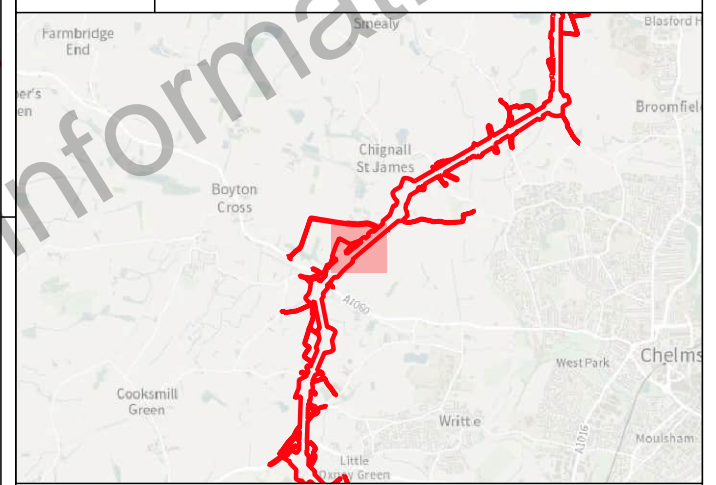
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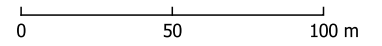
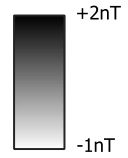
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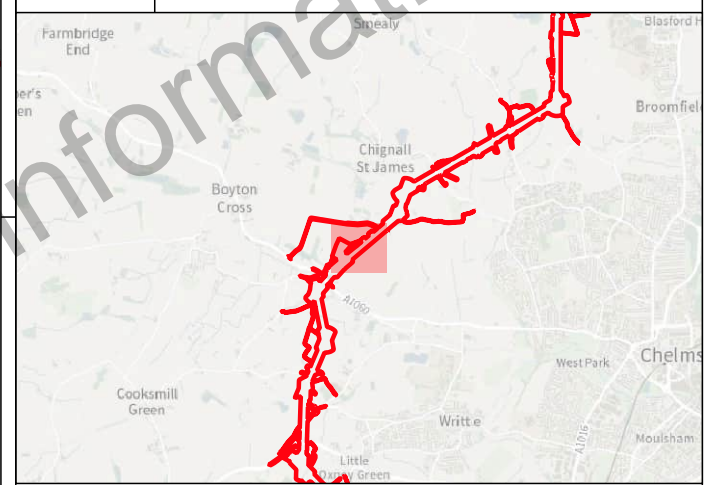
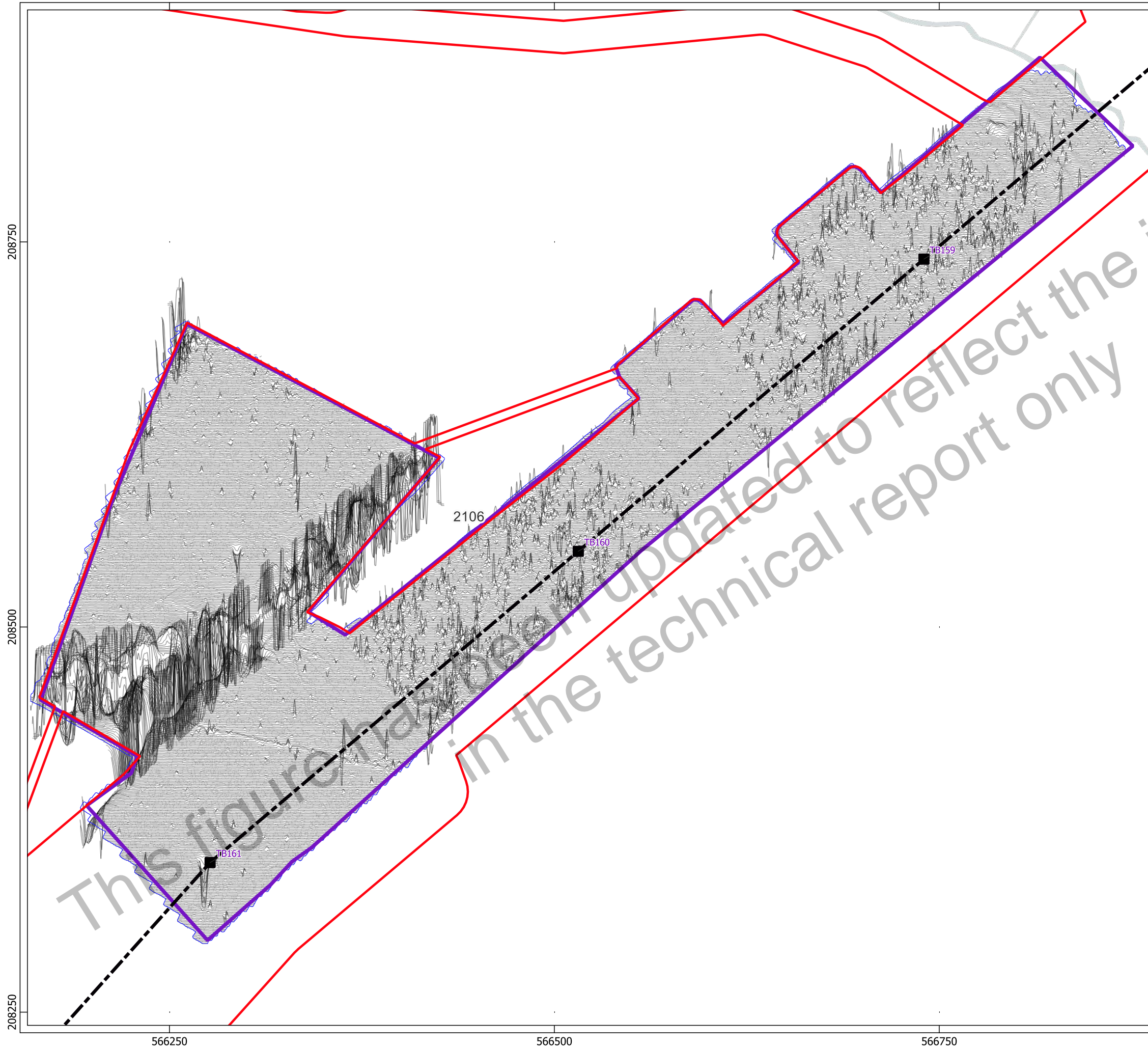


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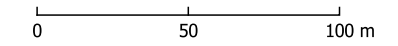


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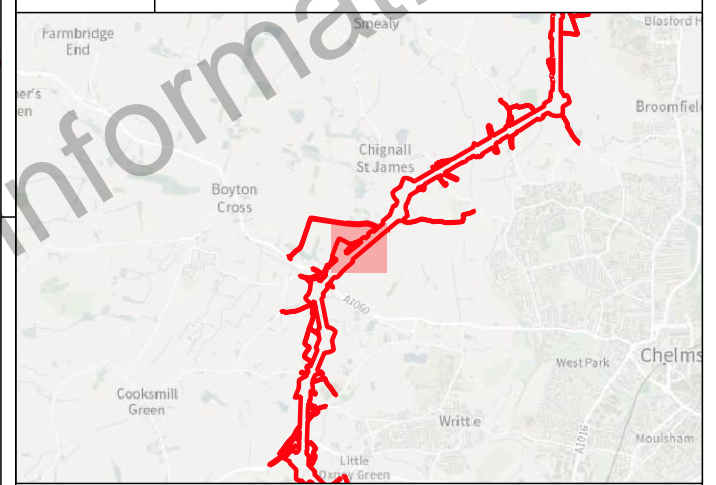
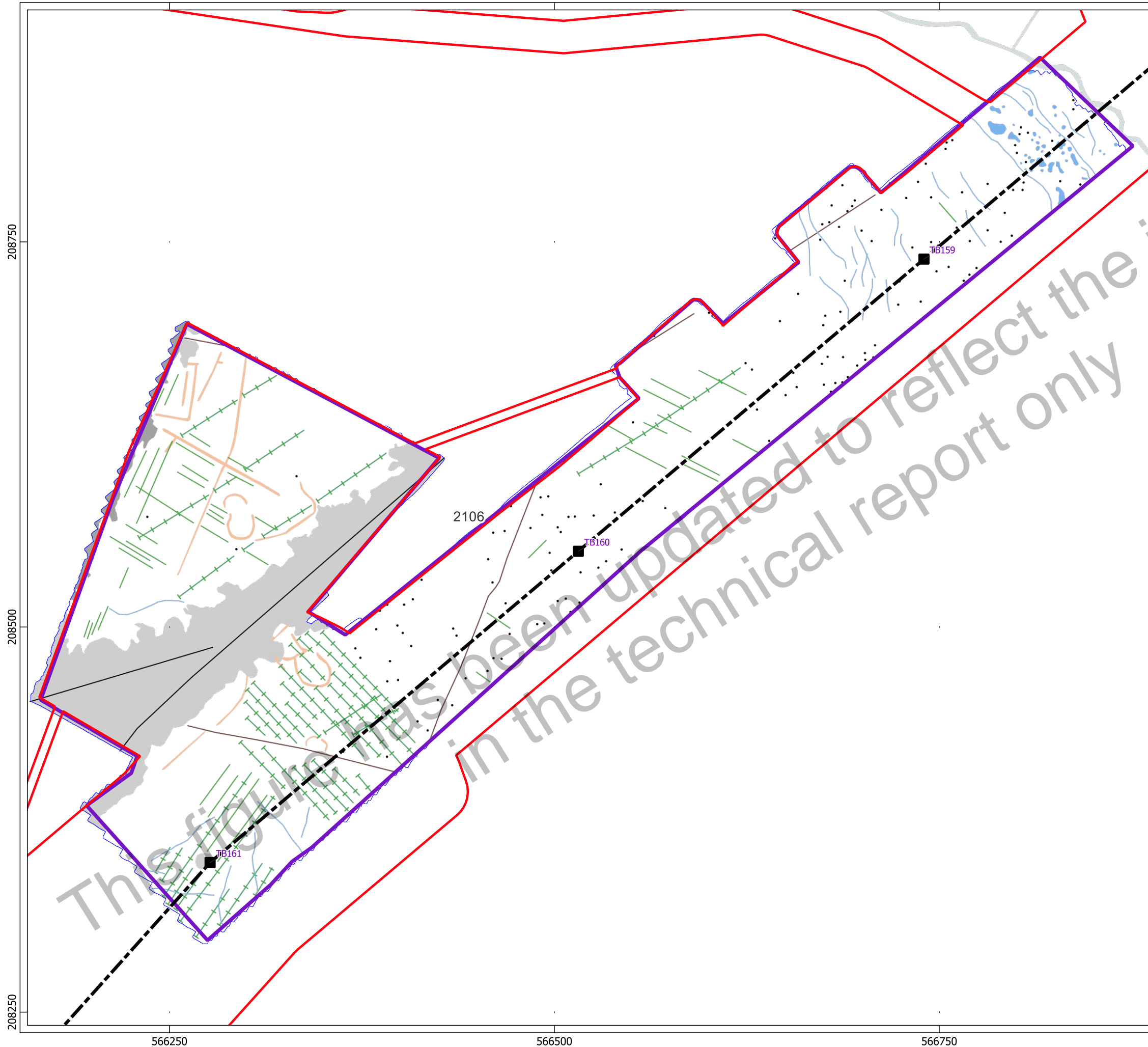
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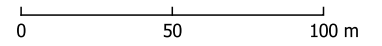
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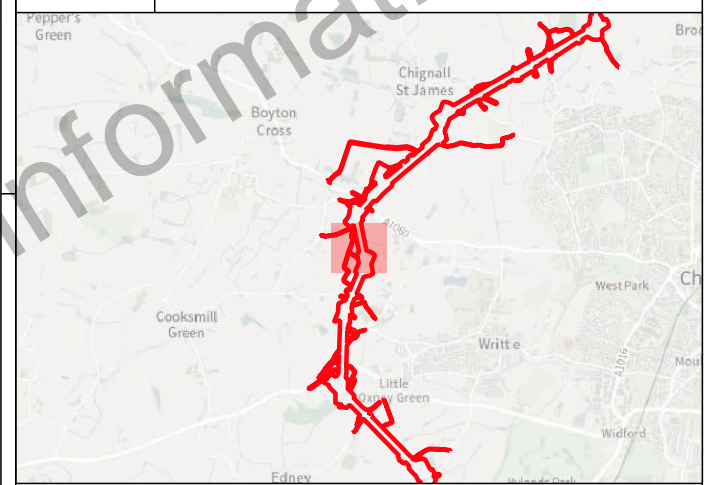


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 - Possible Archaeology

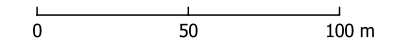
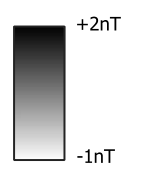


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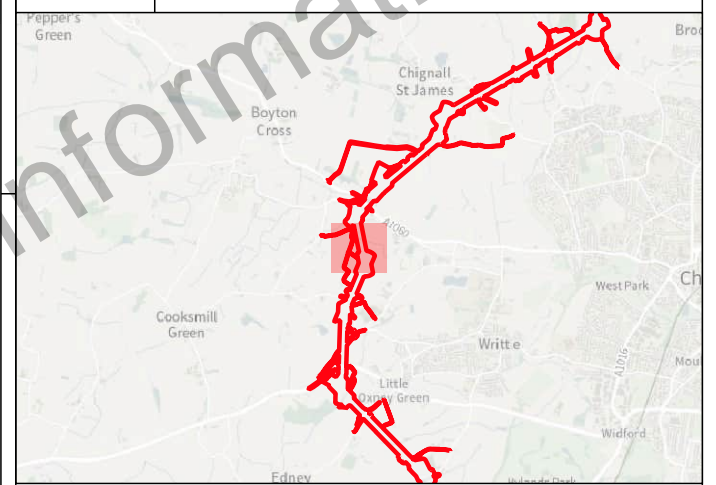
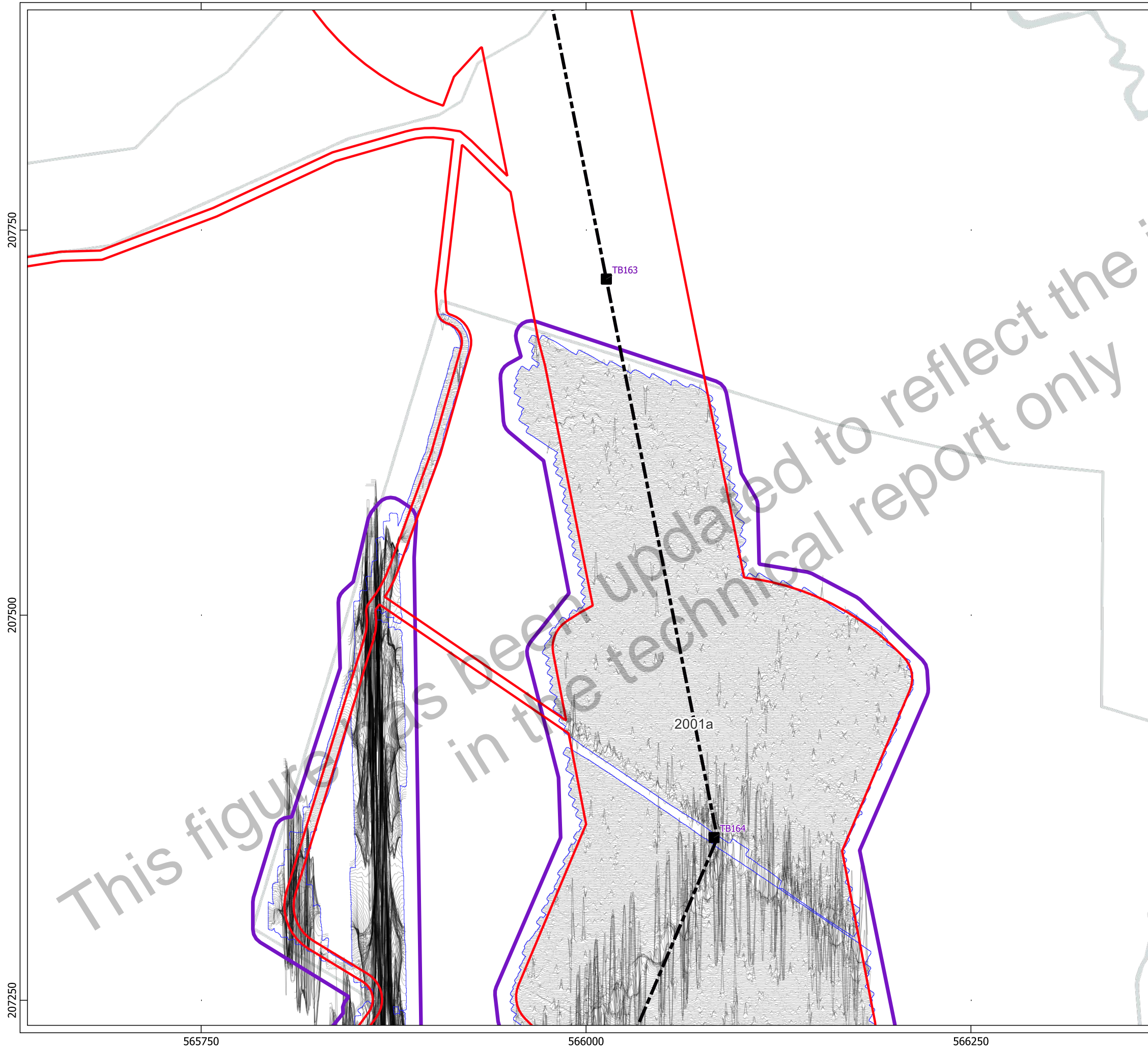
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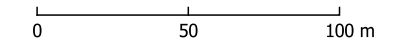
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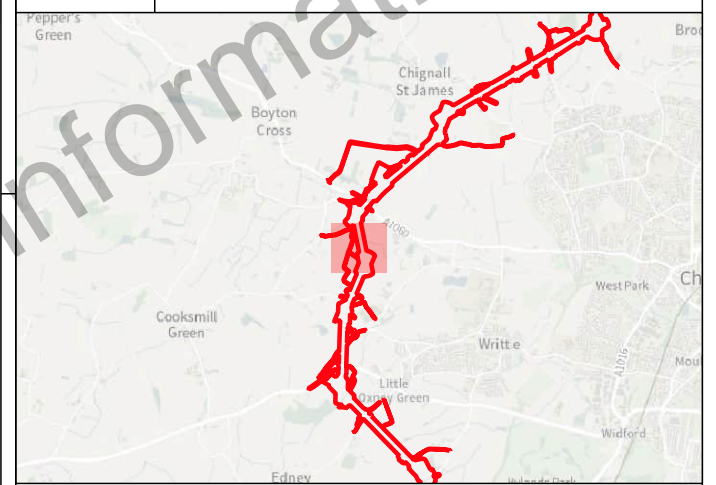
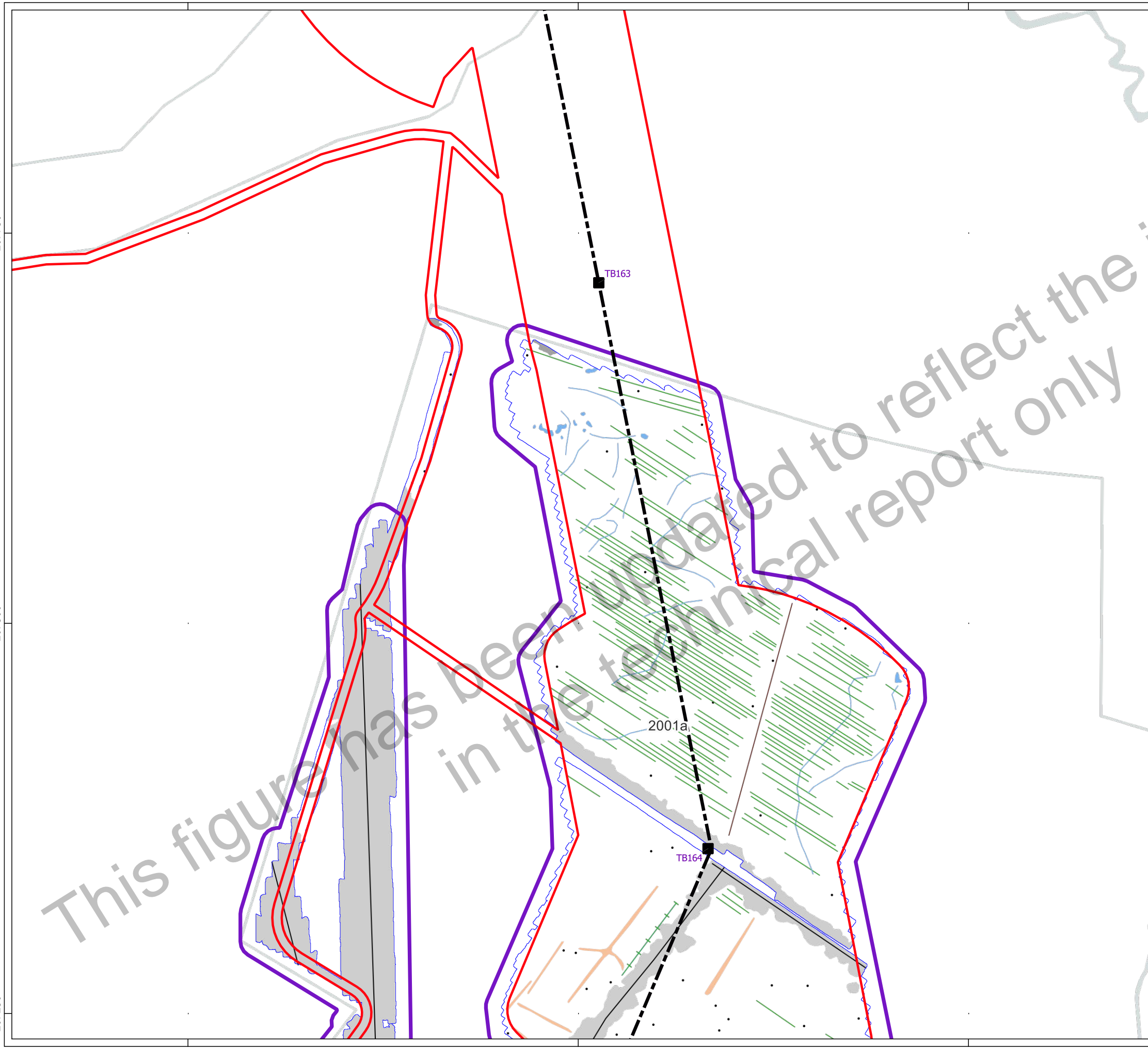
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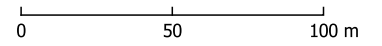
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- Key**
- Order Limits
 - Geophysical Survey Area
 - Survey Extent
 - Proposed Overhead Line Alignment
 - Proposed Pylon Location
- Geophys Interpretation**
- Ferrous Objects
 - Agriculture
 - Field Boundary
 - Field Drain
 - Natural
 - Service
 - Magnetic Disturbance (Above Ground)
 - Magnetic Disturbance (Below Ground)
 - Natural
 - Possible Archaeology



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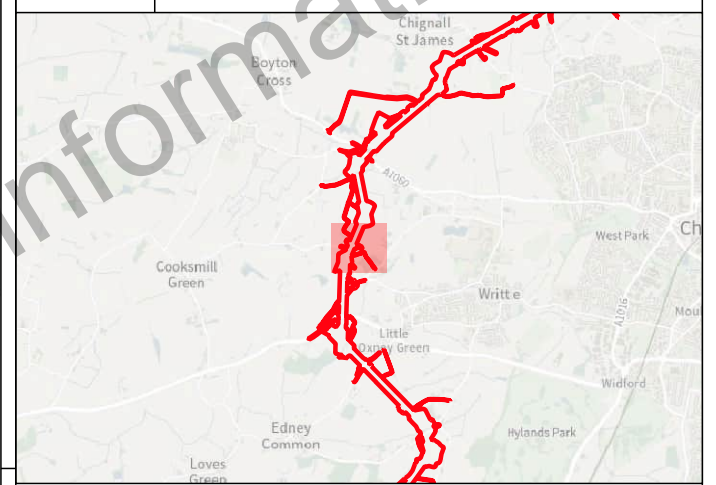
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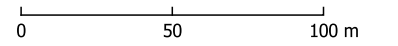
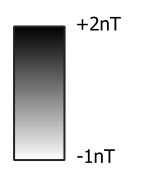
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- Key**
- Order Limits
 - Geophysical Survey Area
 - Survey Extent
 - Proposed Overhead Line Alignment
 - Proposed Pylon Location



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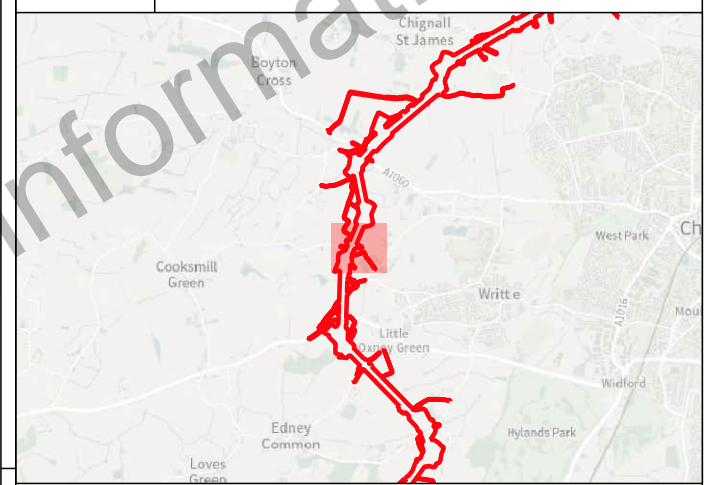
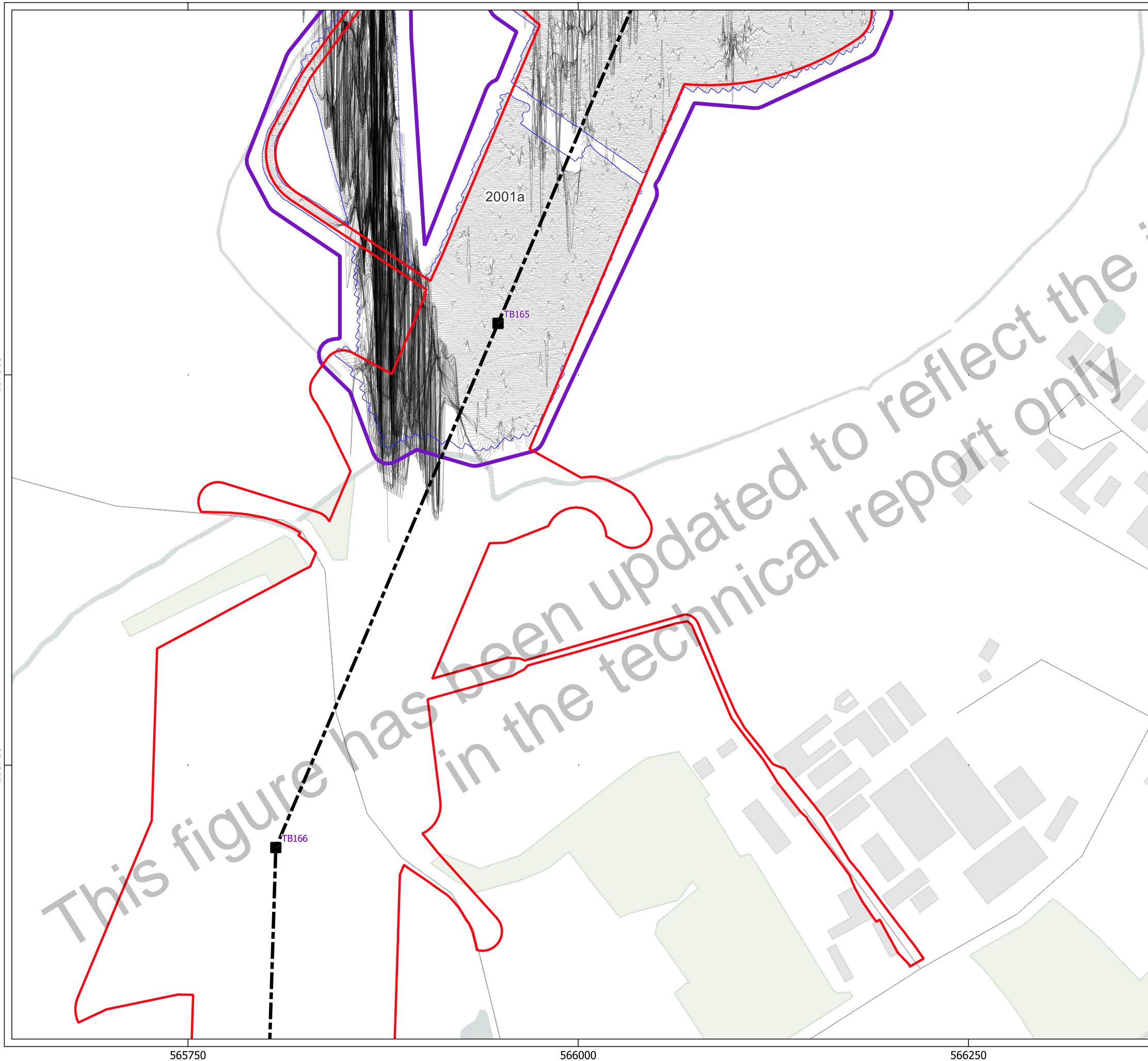
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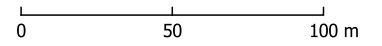
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- Key**
- Order Limits
 - Geophysical Survey Area
 - Survey Extent
 - Proposed Overhead Line Alignment
 - Proposed Pylon Location
 - XY Trace (25nT/cm)



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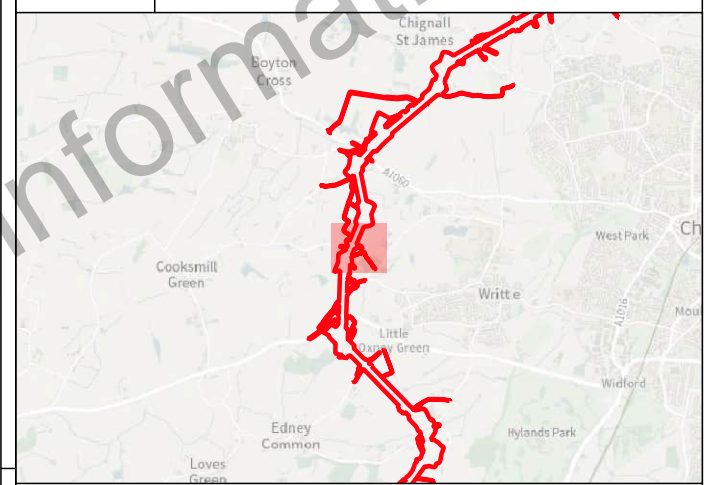
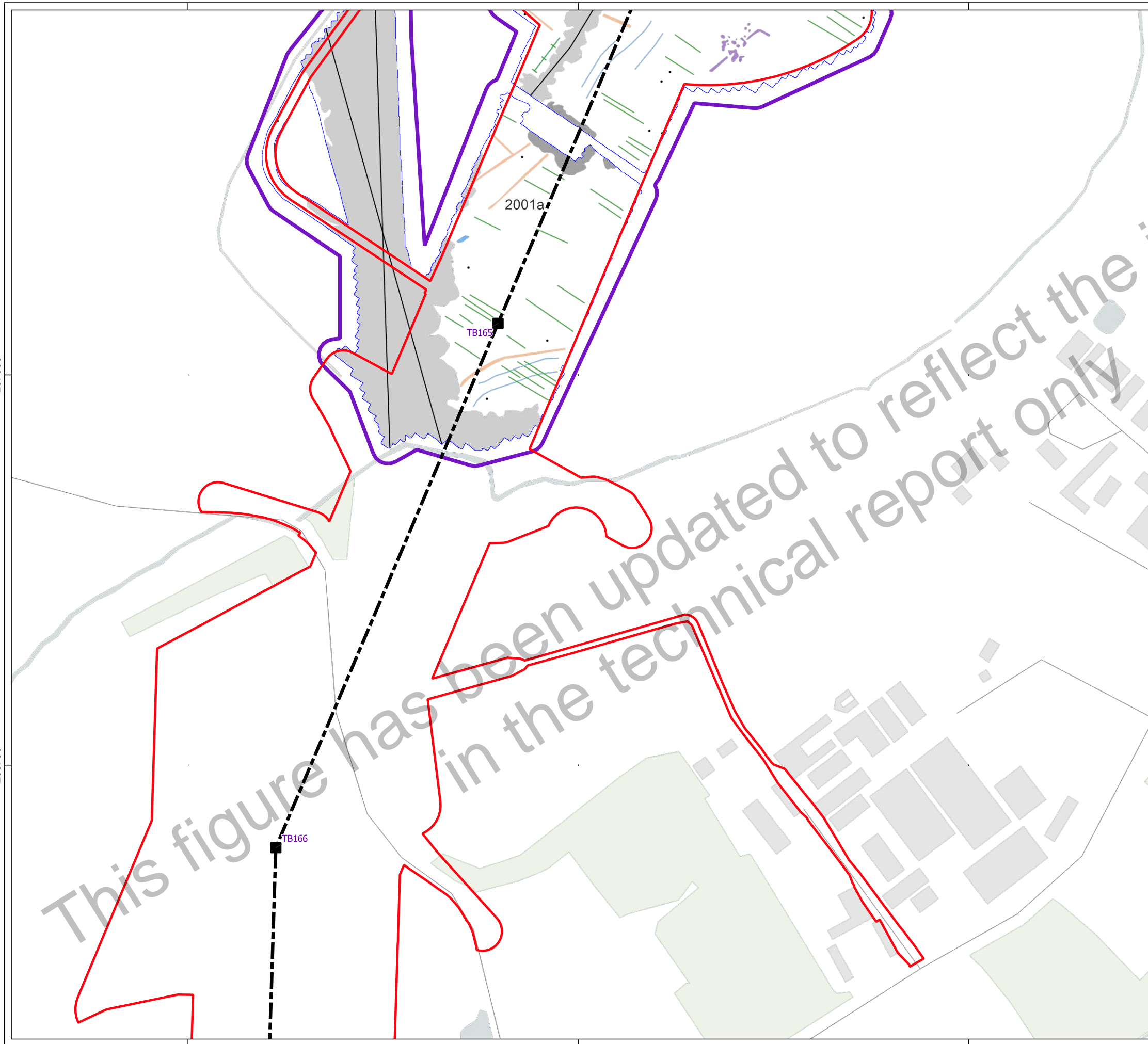
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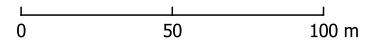
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- Key**
- Order Limits
 - Geophysical Survey Area
 - Survey Extent
 - Proposed Overhead Line Alignment
 - Proposed Pylon Location
- Geophys Interpretation**
- Ferrous Objects
 - Agriculture
 - Field Drain
 - Natural
 - Service
 - Magnetic Disturbance (Above Ground)
 - Magnetic Disturbance (Below Ground)
 - Natural
 - Possible Archaeology
 - Uncertain



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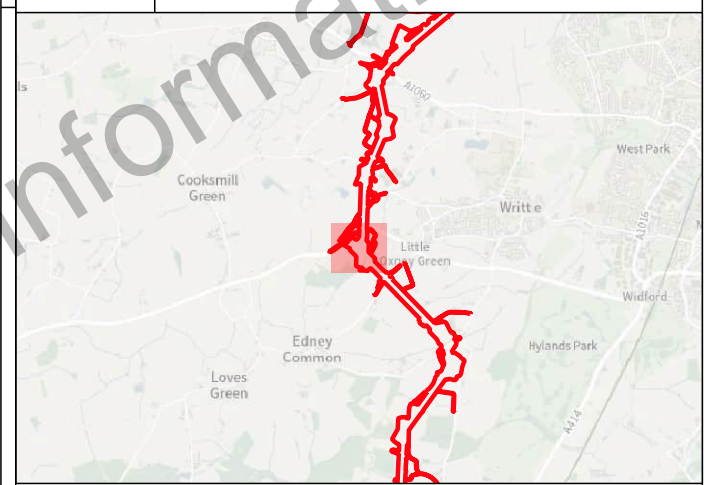
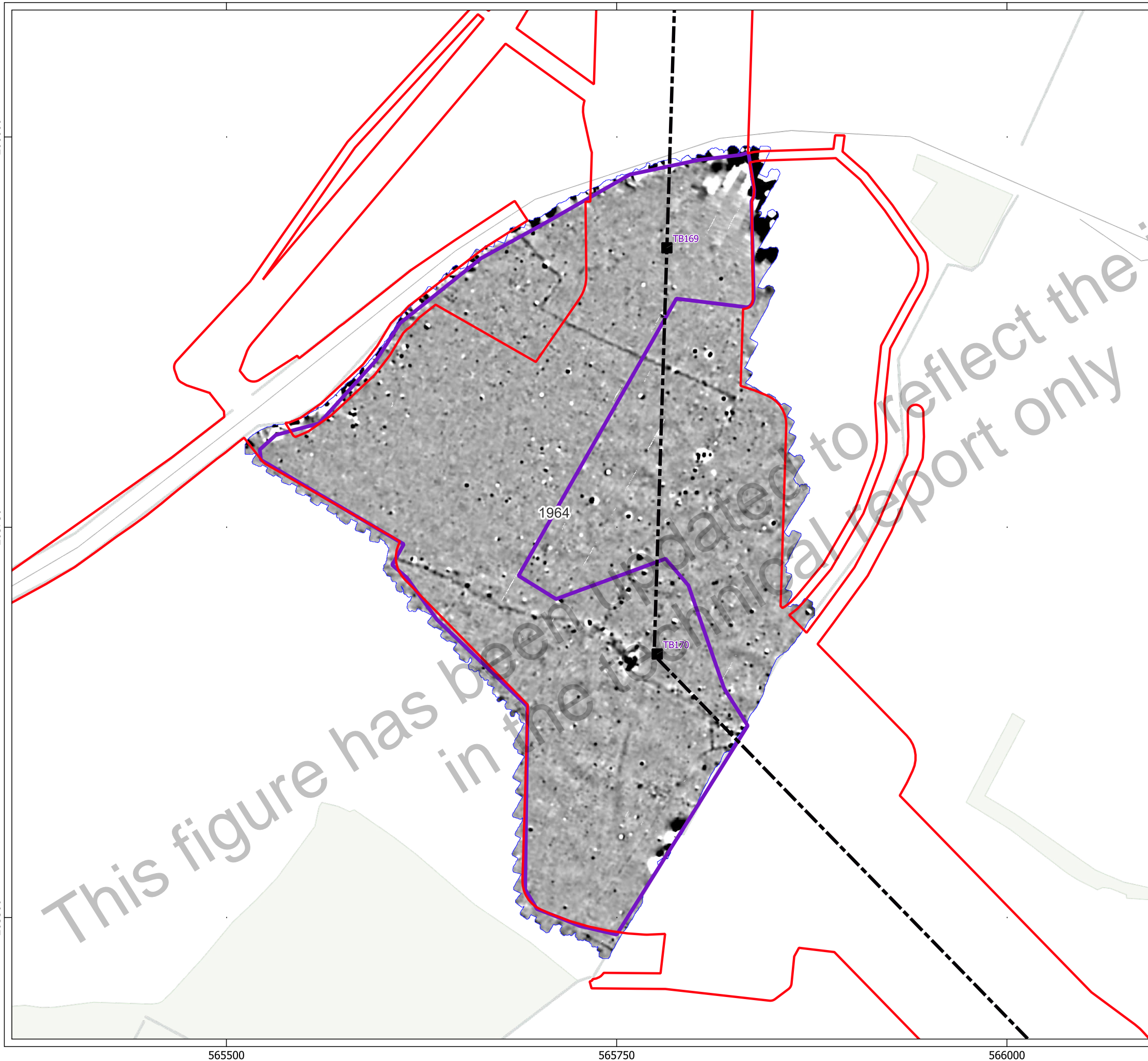
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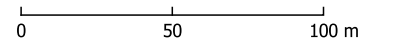
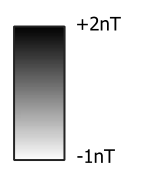
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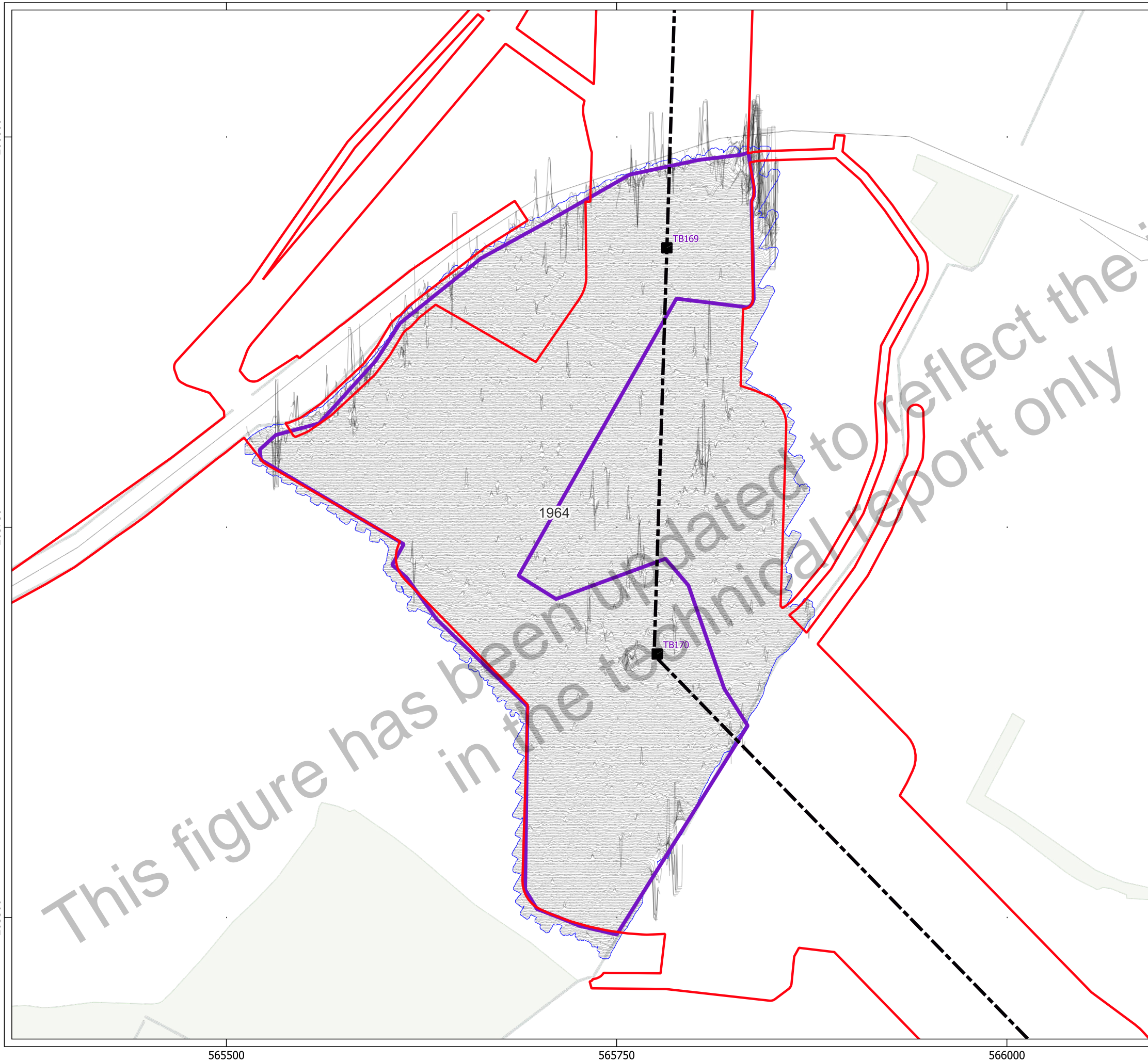


- Key**
- ▭ Order Limits
 - ▭ Geophysical Survey Area
 - ▭ Survey Extent
 - Proposed Overhead Line Alignment
 - Proposed Pylon Location



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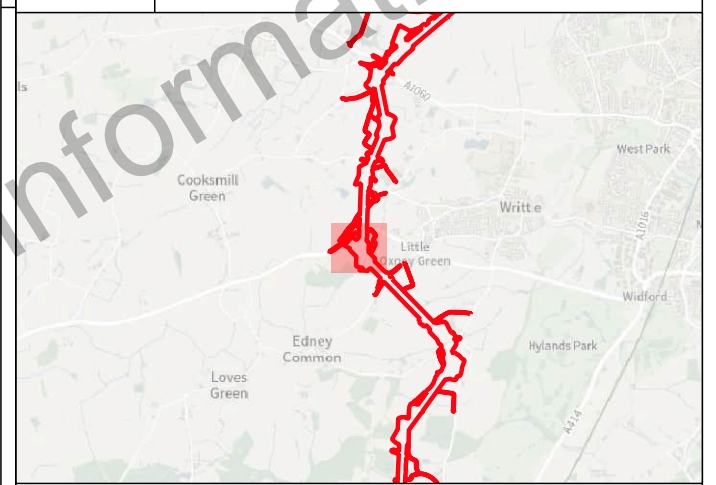
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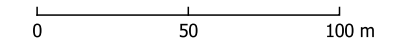
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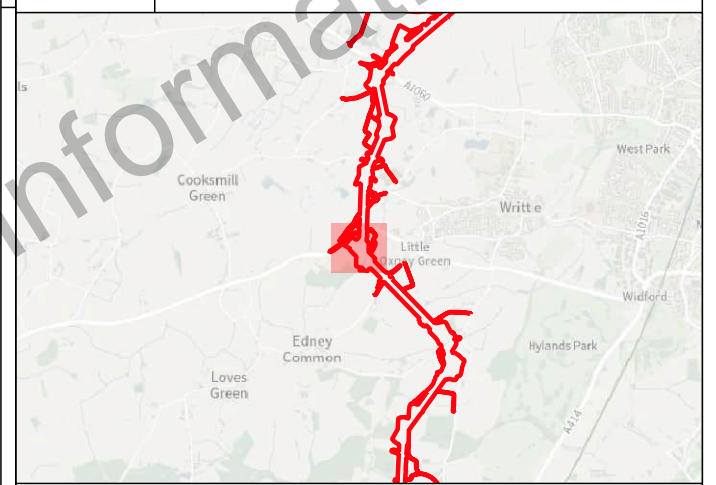
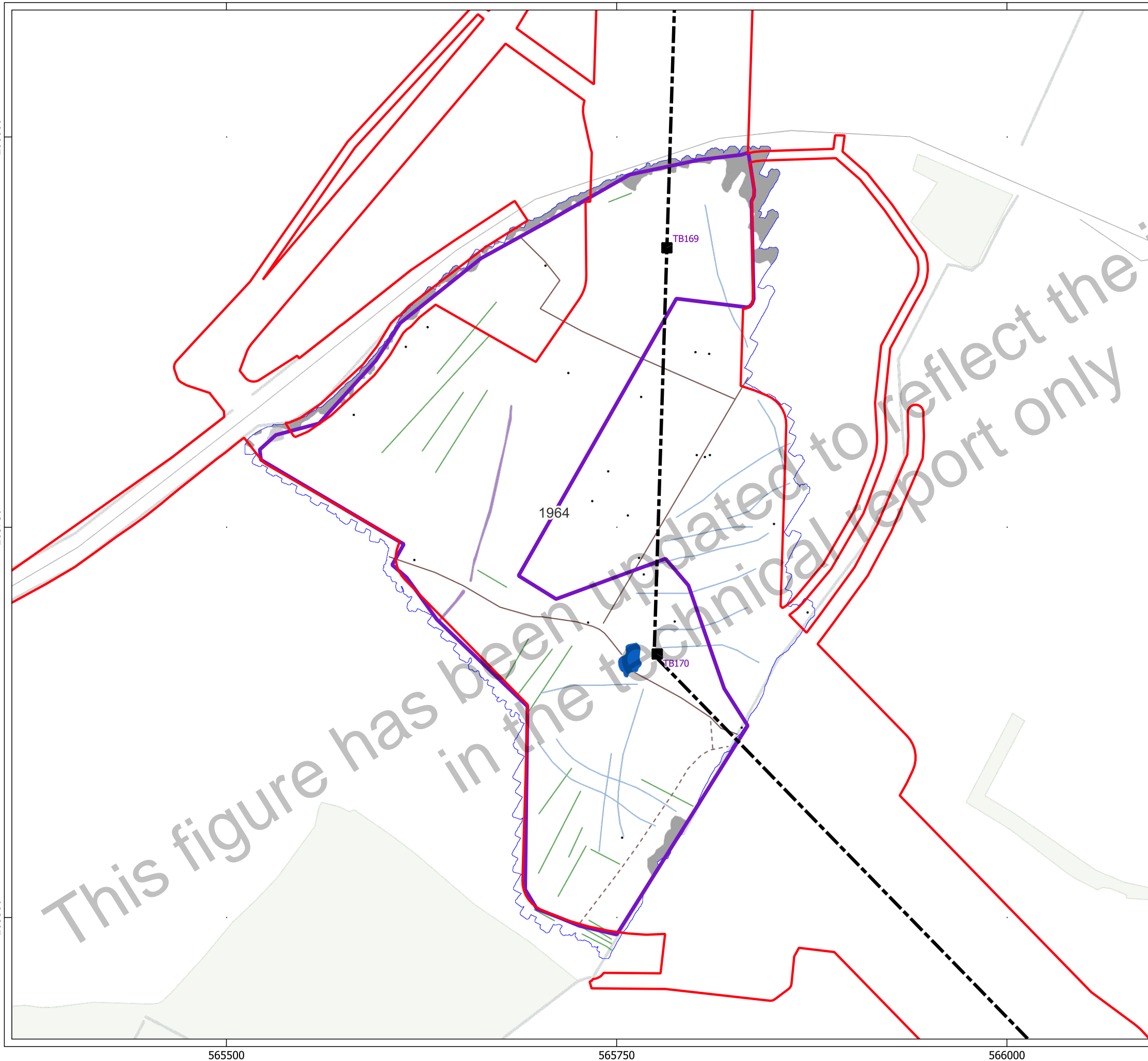


- Key**
- ▭ Order Limits
 - ▭ Geophysical Survey Area
 - ▭ Survey Extent
 - Proposed Overhead Line Alignment
 - Proposed Pylon Location
 - XY Trace (25nT/cm)

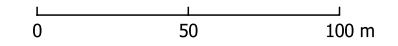


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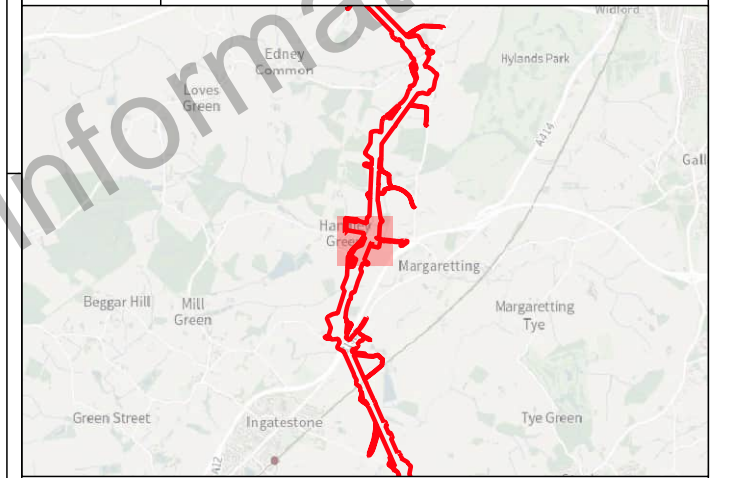


- Key**
- Order Limits
 - Geophysical Survey Area
 - Survey Extent
 - Proposed Overhead Line Alignment
 - Proposed Pylon Location
- Geophys Interpretation**
- Ferrous Objects
 - Agriculture
 - Field Boundary
 - Possible Field Boundary
 - Natural
 - Magnetic Disturbance (Above Ground)
 - Magnetic Disturbance (Below Ground)
 - Uncertain
 - Former Pond



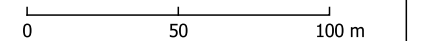
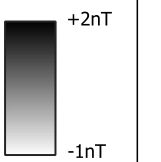
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Key

- ▭ Order Limits
- ▭ Geophysical Survey Area
- ▭ Survey Extent
- Proposed Overhead Line Alignment
- Proposed Pylon Location



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202000

201750

1686

TB181

1818

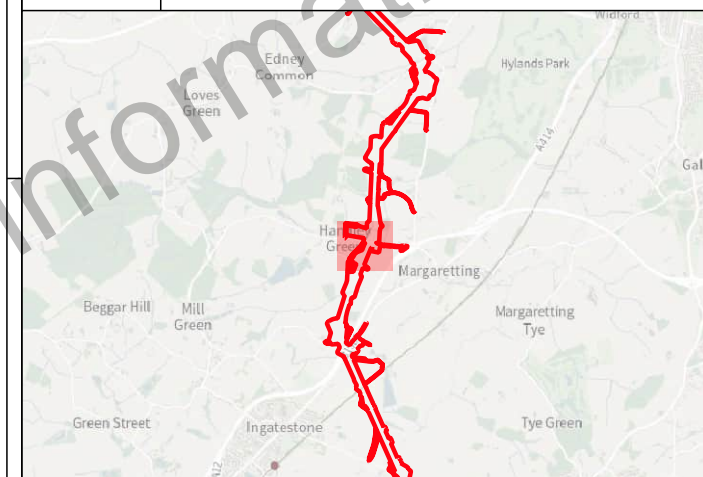
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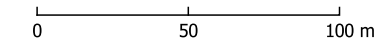
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- Key
- ▭ Order Limits
 - ▭ Geophysical Survey Area
 - ▭ Survey Extent
 - Proposed Overhead Line Alignment
 - Proposed Pylon Location
 - XY Trace (25nT/cm)



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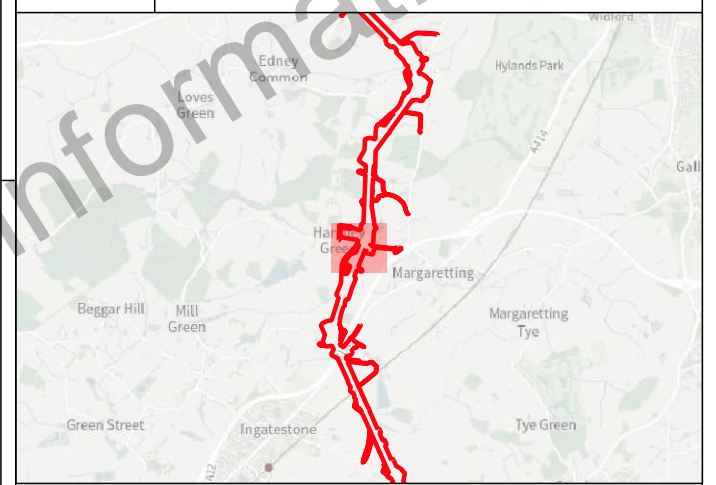
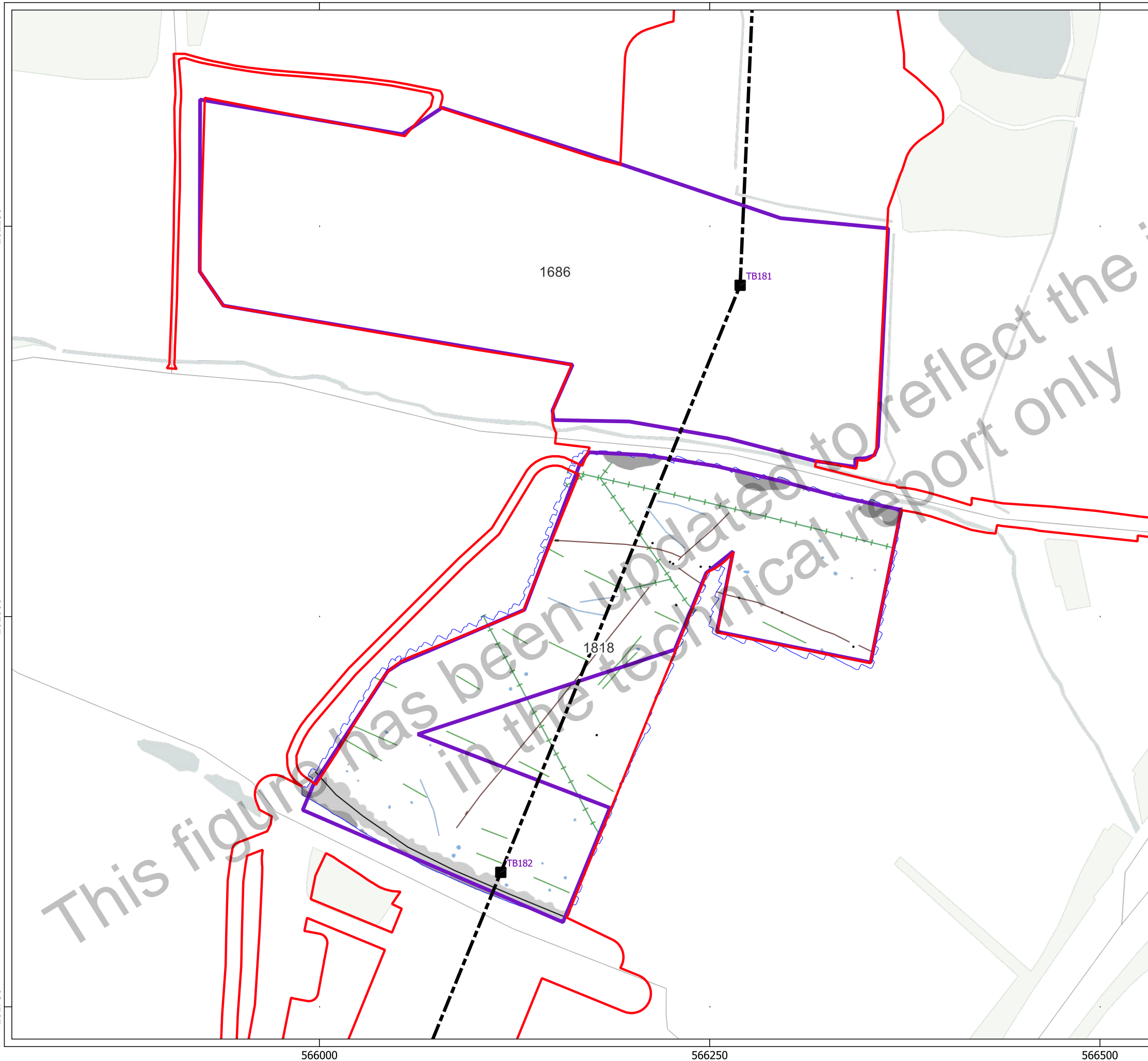
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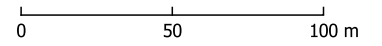
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- Key**
- Order Limits
 - Geophysical Survey Area
 - Survey Extent
 - Proposed Overhead Line Alignment
 - Proposed Pylon Location
- Geophys Interpretation**
- Ferrous Objects
 - Agriculture
 - Field Boundary
 - Possible Field Boundary
 - Field Drain
 - Natural
 - Service
 - Magnetic Disturbance (Above Ground)
 - Magnetic Disturbance (Below Ground)
 - Natural



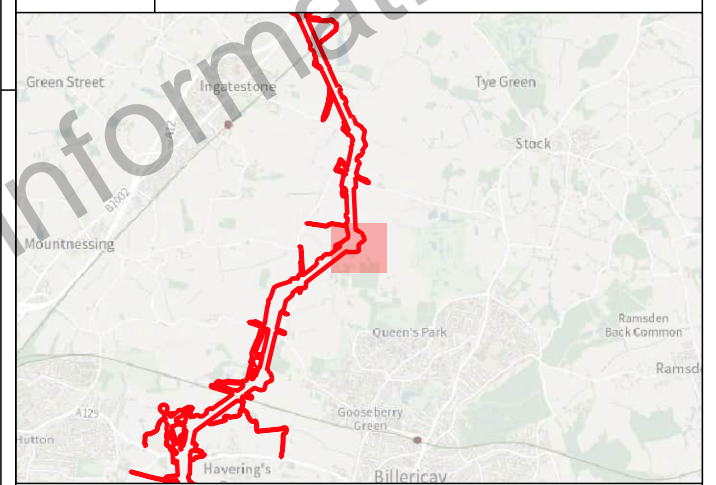
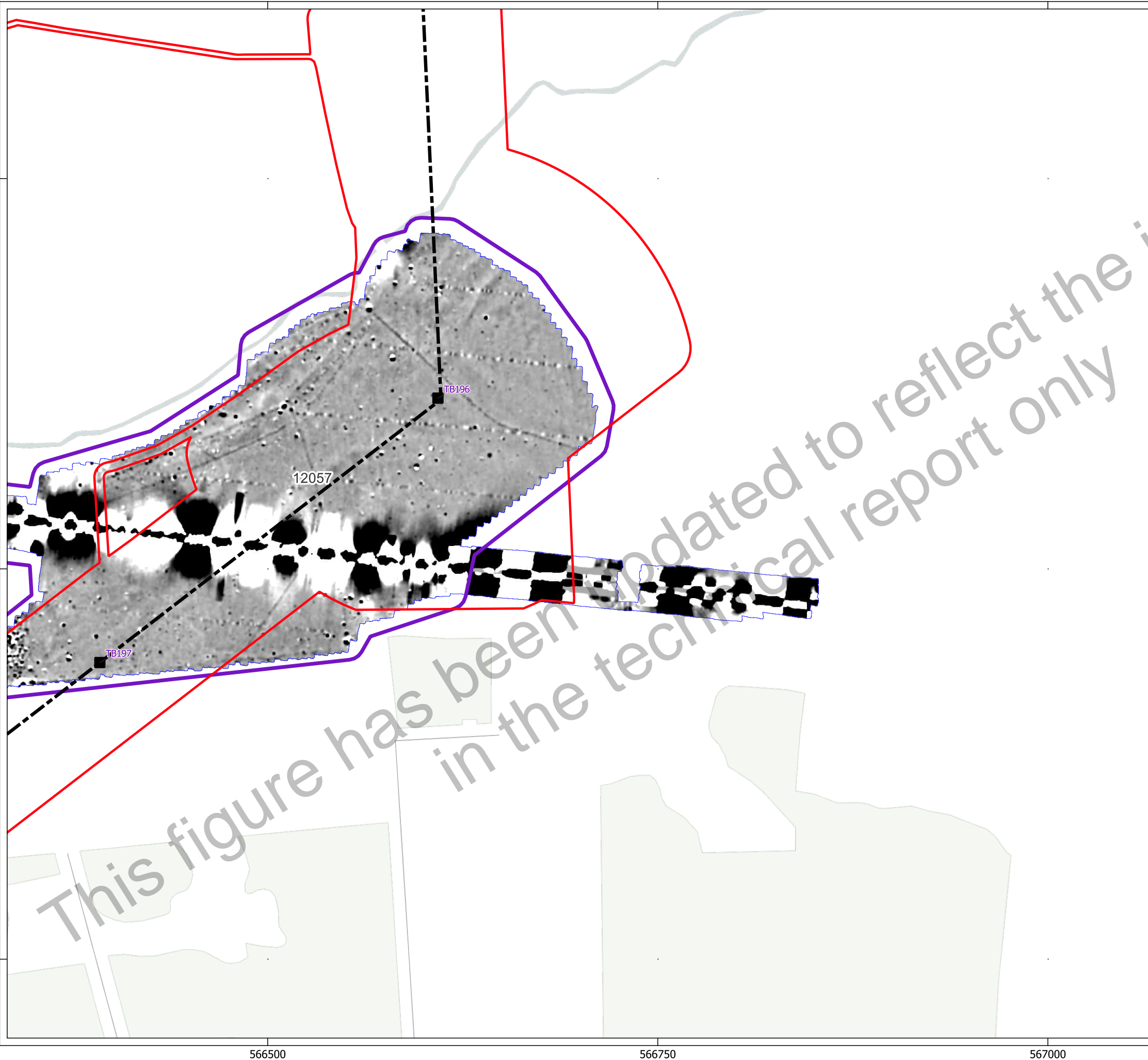
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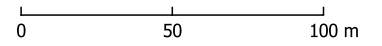
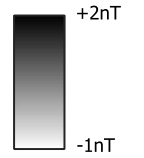
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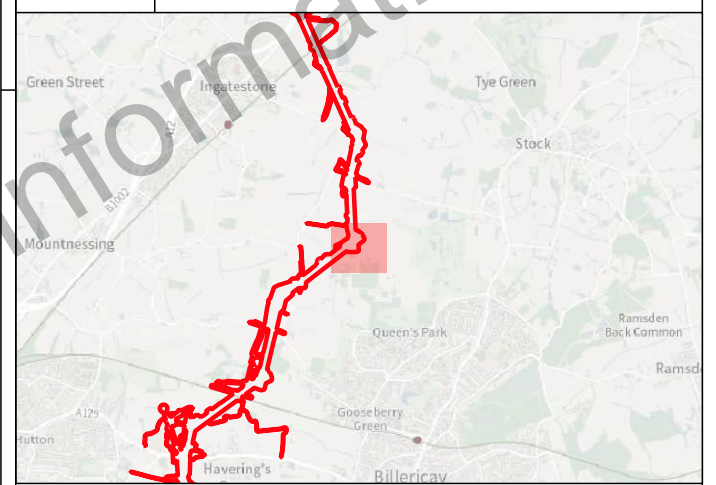
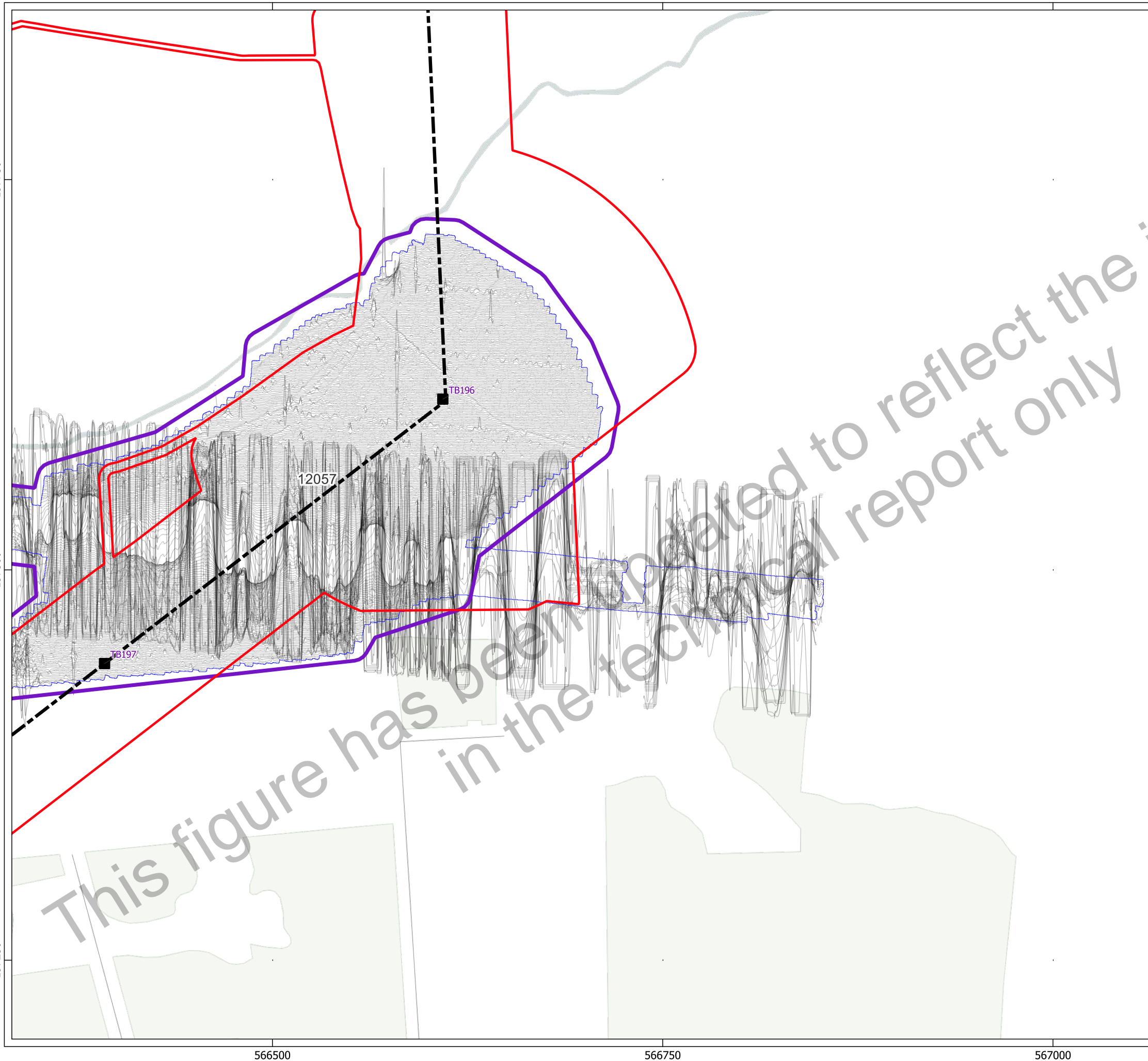


- Key**
- Order Limits
 - Geophysical Survey Area
 - Survey Extent
 - Proposed Overhead Line Alignment
 - Proposed Pylon Location

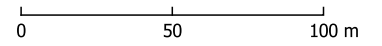


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- Key**
- Order Limits
 - Geophysical Survey Area
 - Survey Extent
 - Proposed Overhead Line Alignment
 - Proposed Pylon Location
 - XY Trace (25nT/cm)



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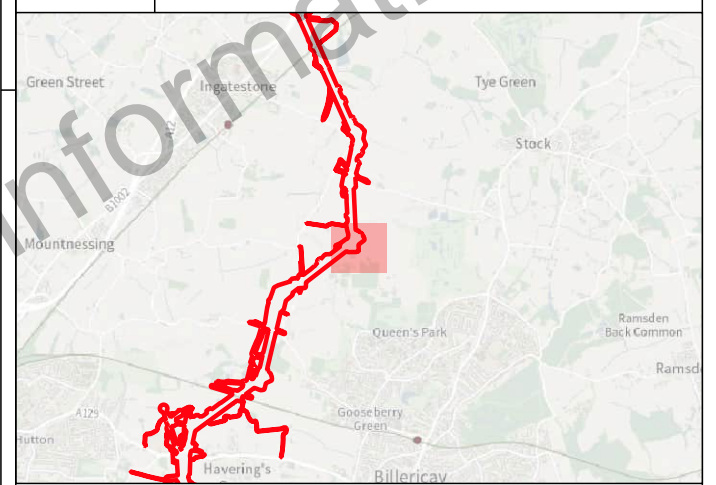
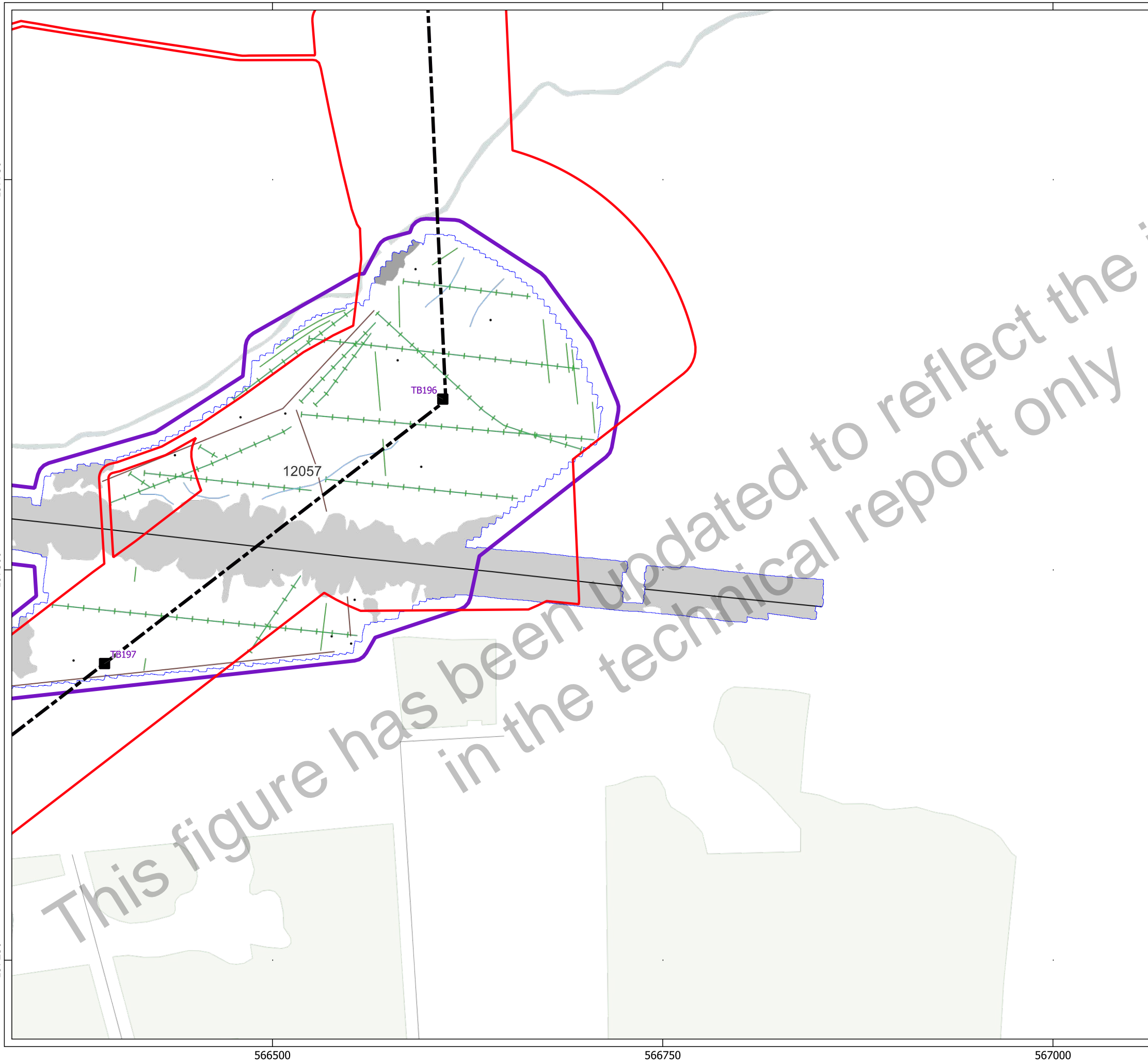
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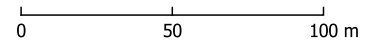


Key

- Order Limits
- Geophysical Survey Area
- Survey Extent
- Proposed Overhead Line Alignment
- Proposed Pylon Location

Geophys Interpretation

- Ferrous Objects
- Agriculture
- Field Boundary
- Field Drain
- Natural
- Service
- Magnetic Disturbance (Above Ground)
- Magnetic Disturbance (Below Ground)



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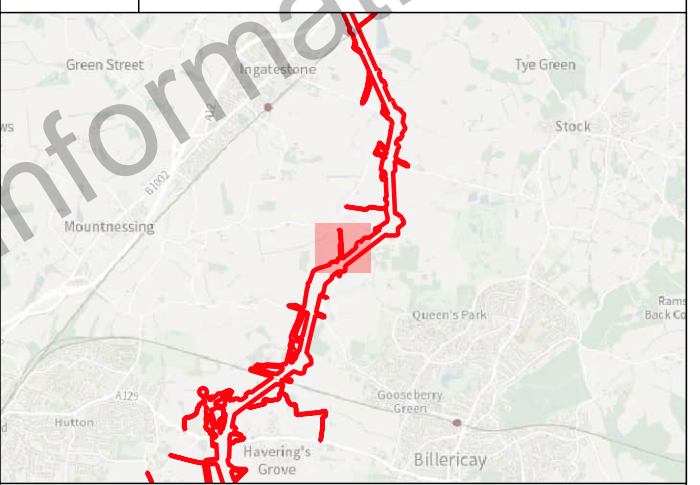
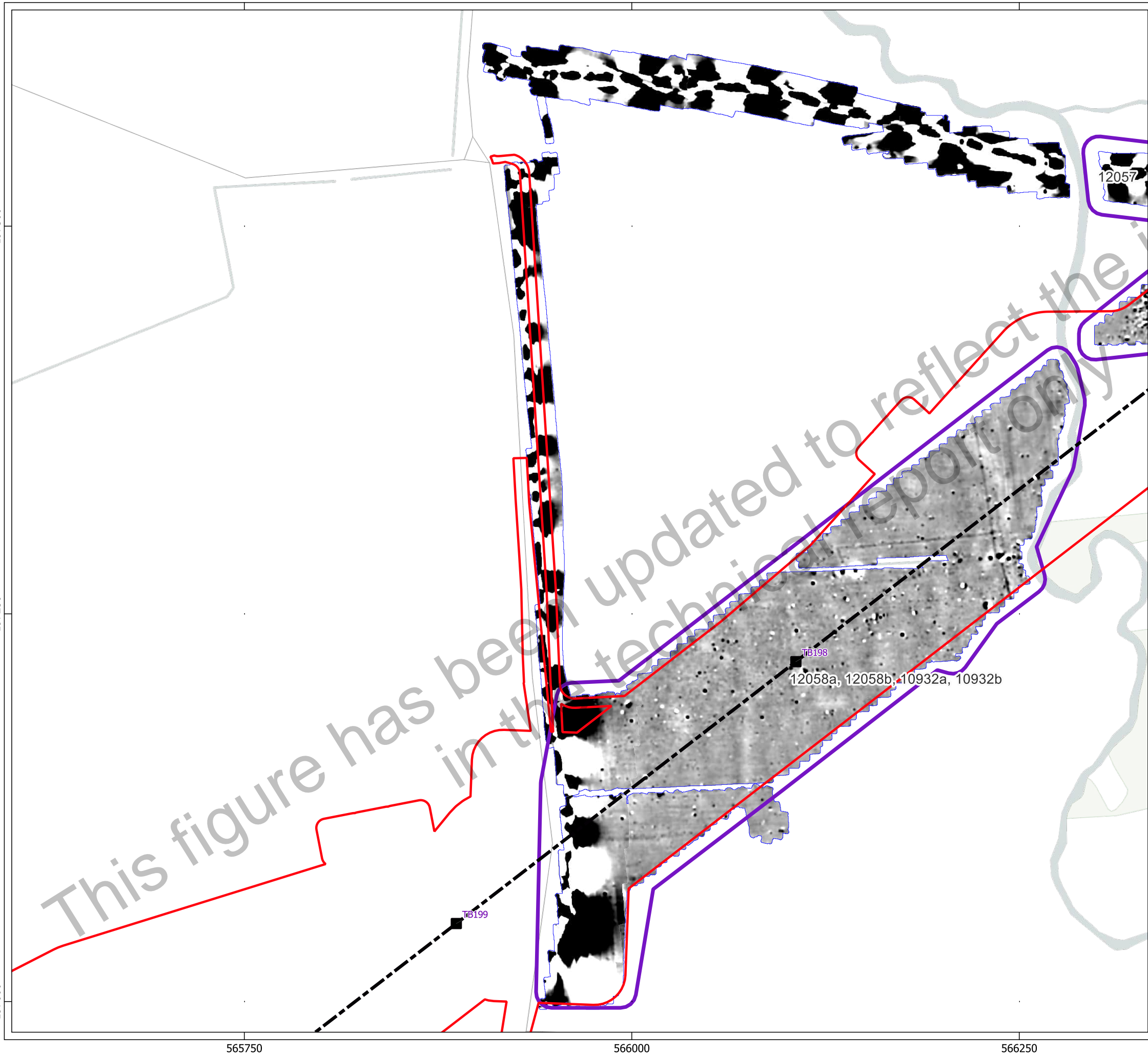
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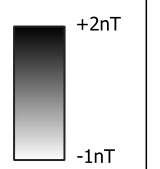
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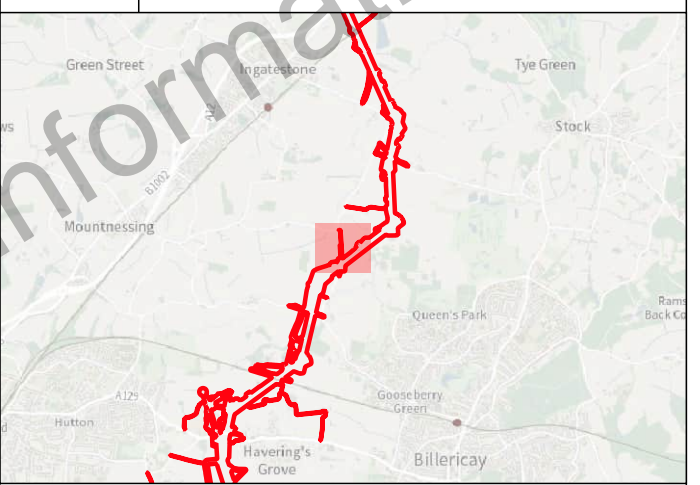
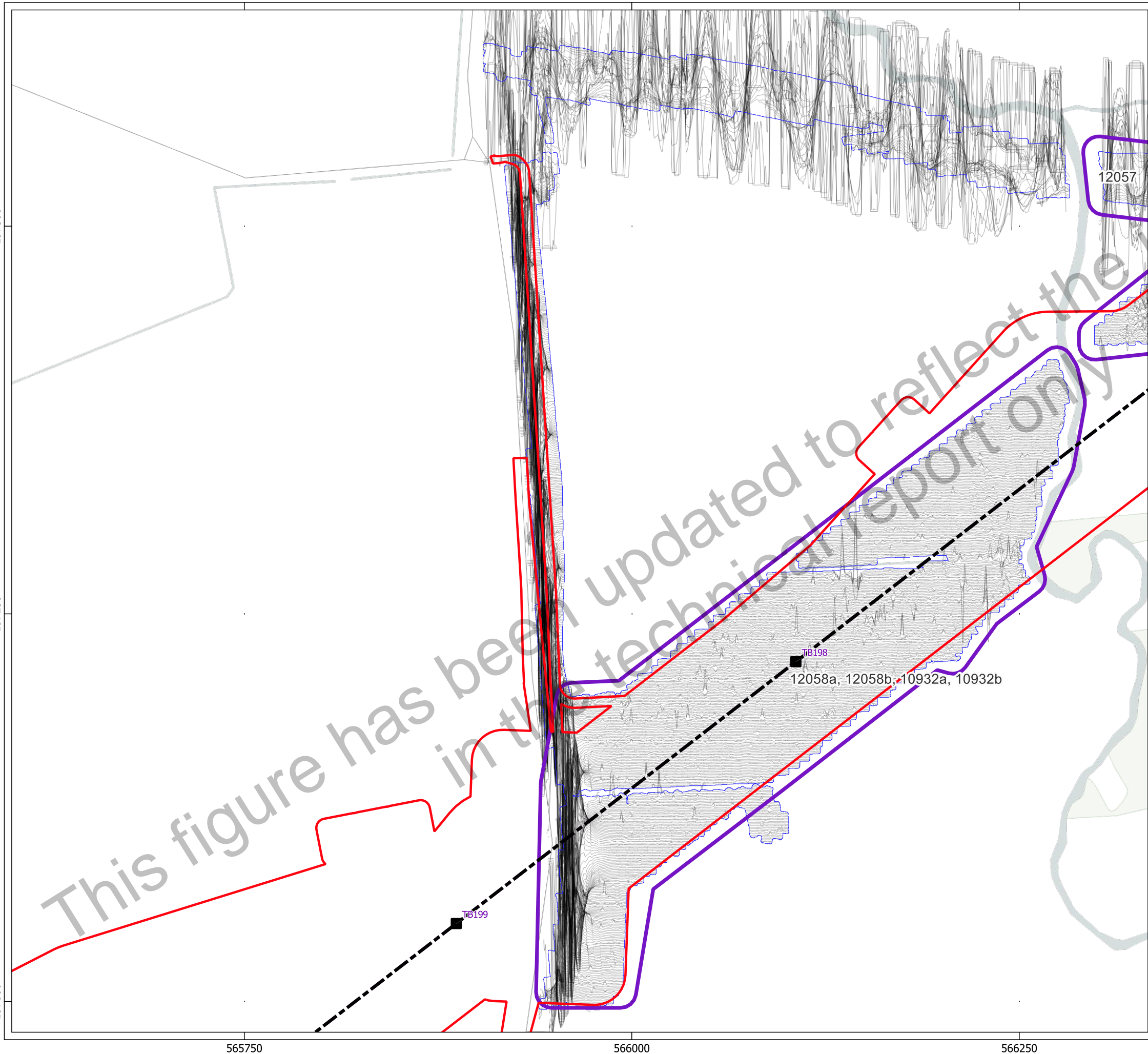


- Key**
- Order Limits
 - Geophysical Survey Area
 - Survey Extent
 - Proposed Overhead Line Alignment
 - Proposed Pylon Location

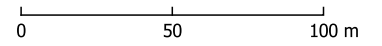


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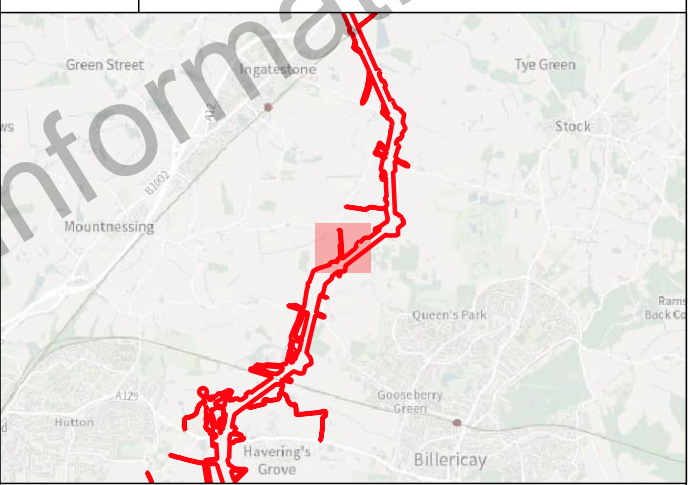
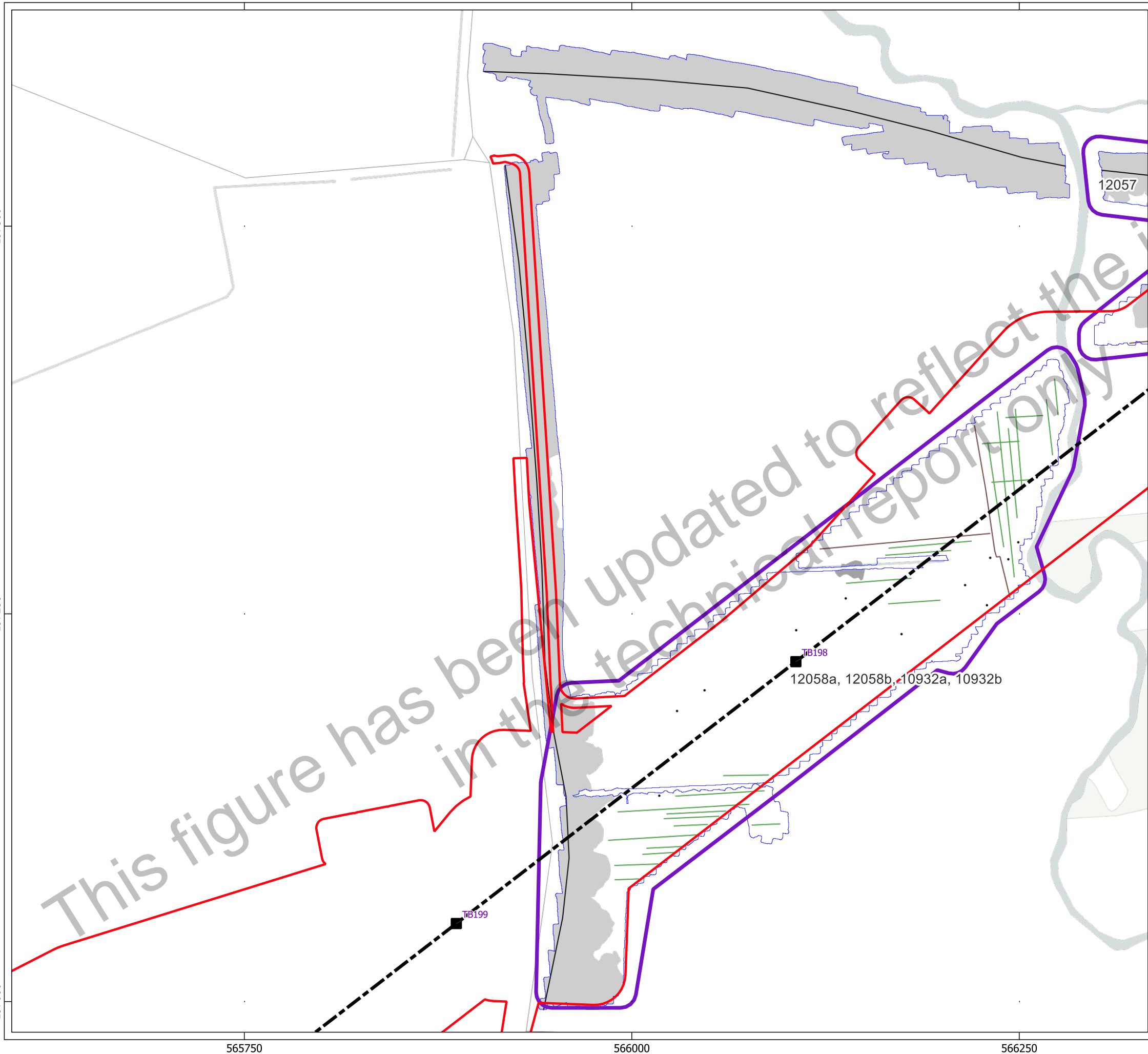


- Key**
- ▭ Order Limits
 - ▭ Geophysical Survey Area
 - ▭ Survey Extent
 - Proposed Overhead Line Alignment
 - Proposed Pylon Location
 - XY Trace (25nT/cm)

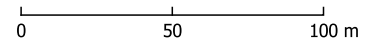


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- Key**
- Order Limits
 - Geophysical Survey Area
 - Survey Extent
 - Proposed Overhead Line Alignment
 - Proposed Pylon Location
- Geophys Interpretation**
- Ferrous Objects
 - Agriculture
 - Field Boundary
 - Service
 - Magnetic Disturbance (Above Ground)
 - Magnetic Disturbance (Below Ground)



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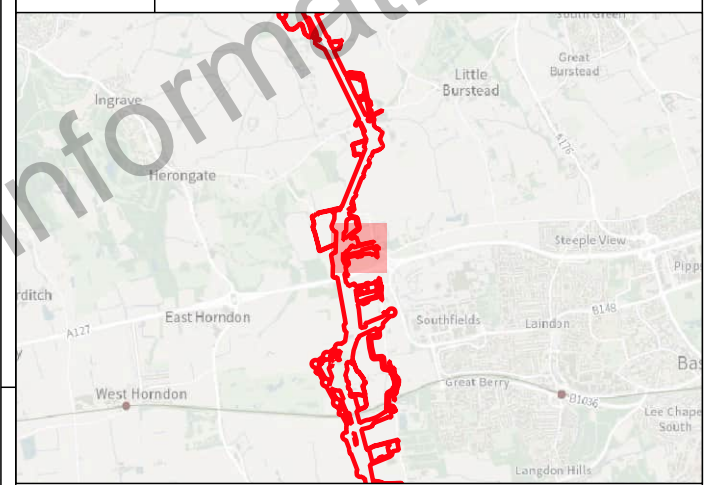
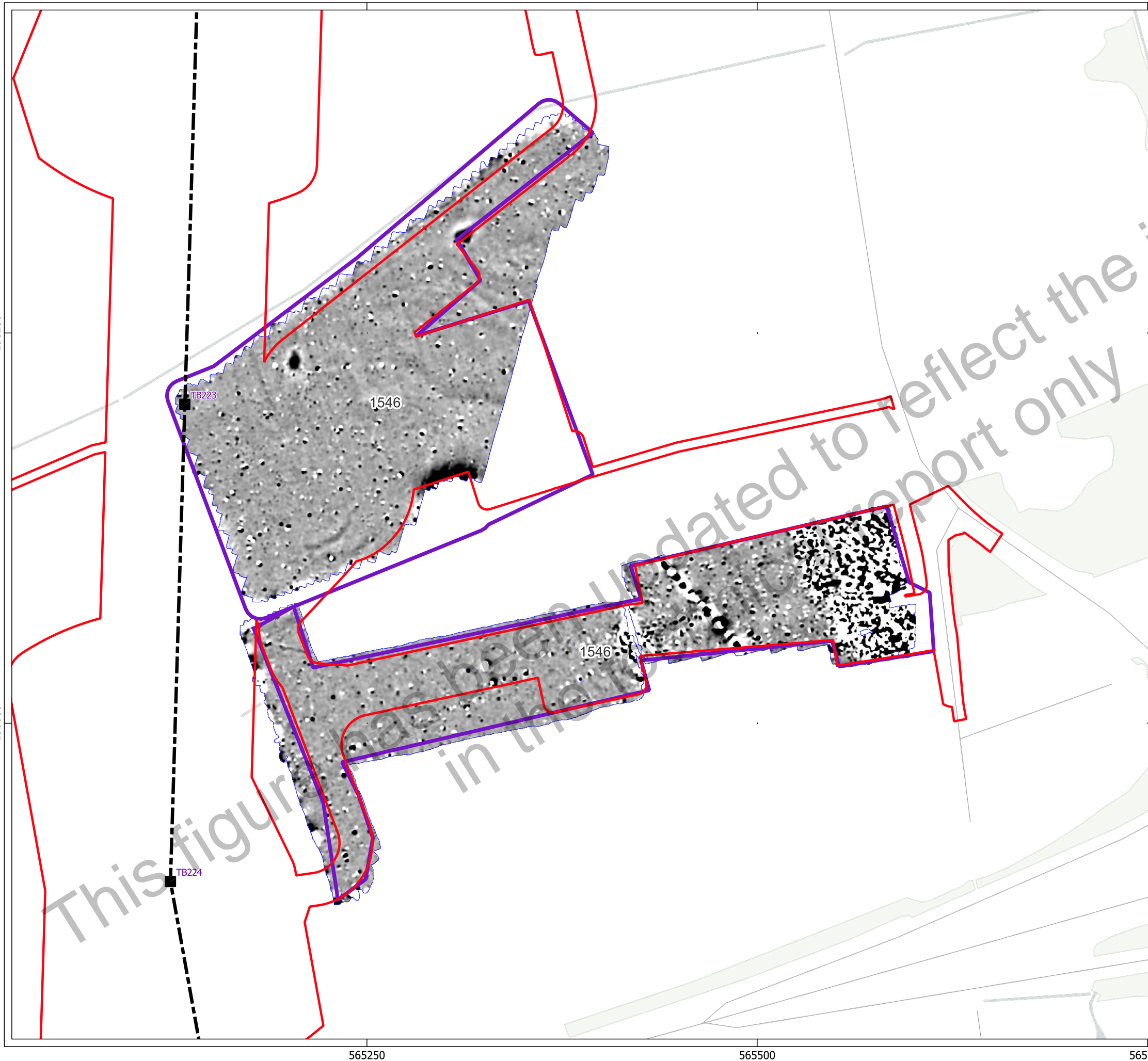
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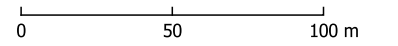
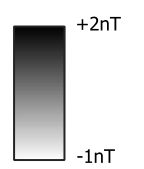
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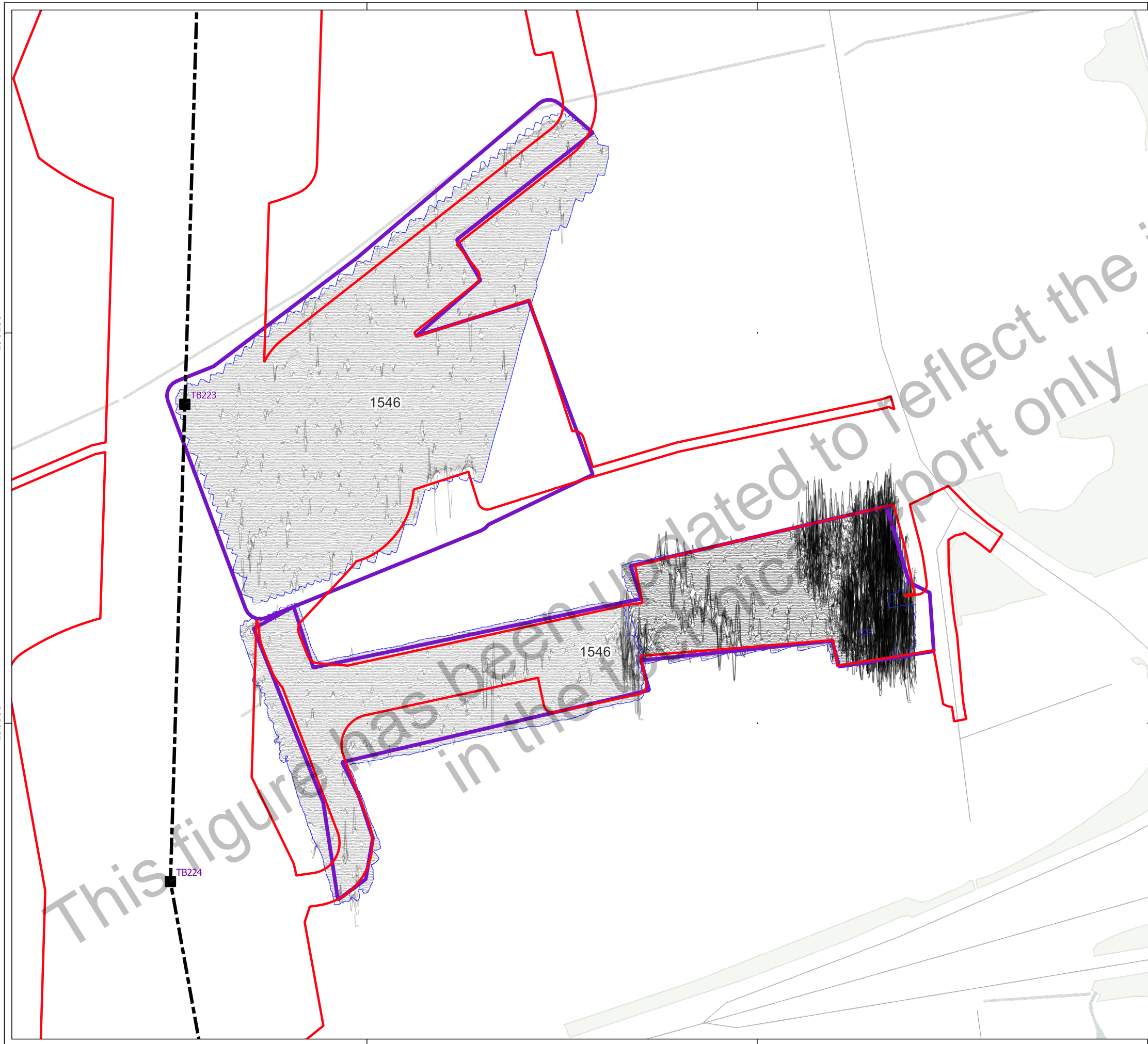


- Key**
- Order Limits
 - Geophysical Survey Area
 - Survey Extent
 - Proposed Overhead Line Alignment
 - Proposed Pylon Location



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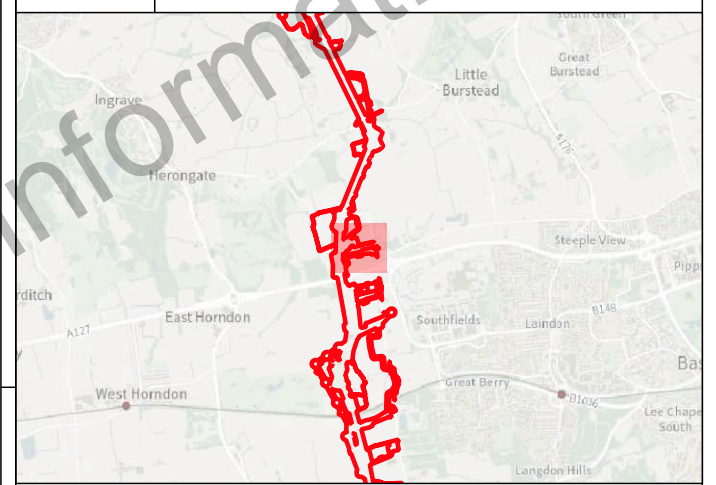
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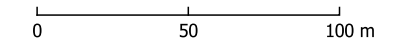
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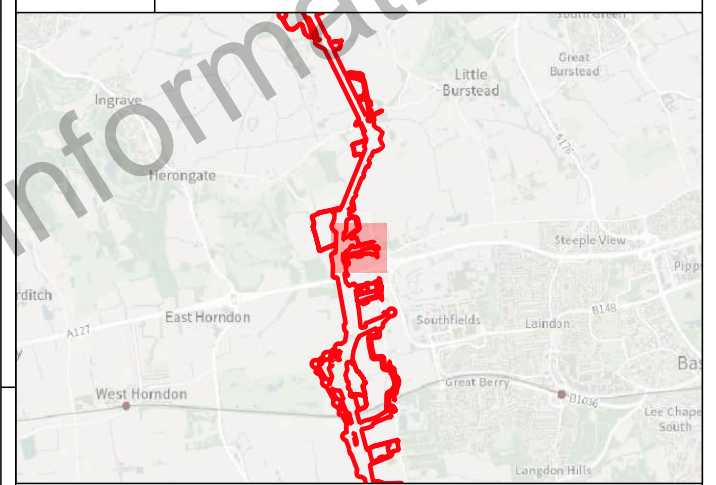


- Key**
- ▭ Order Limits
 - ▭ Geophysical Survey Area
 - ▭ Survey Extent
 - Proposed Overhead Line Alignment
 - Proposed Pylon Location
 - XY Trace (25nT/cm)

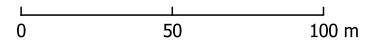


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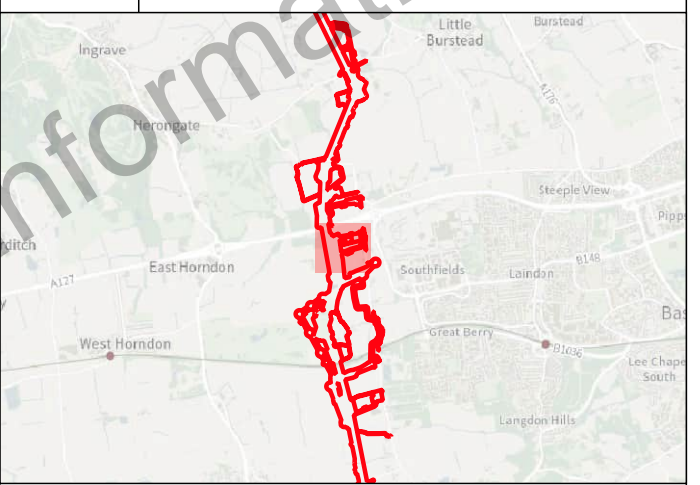
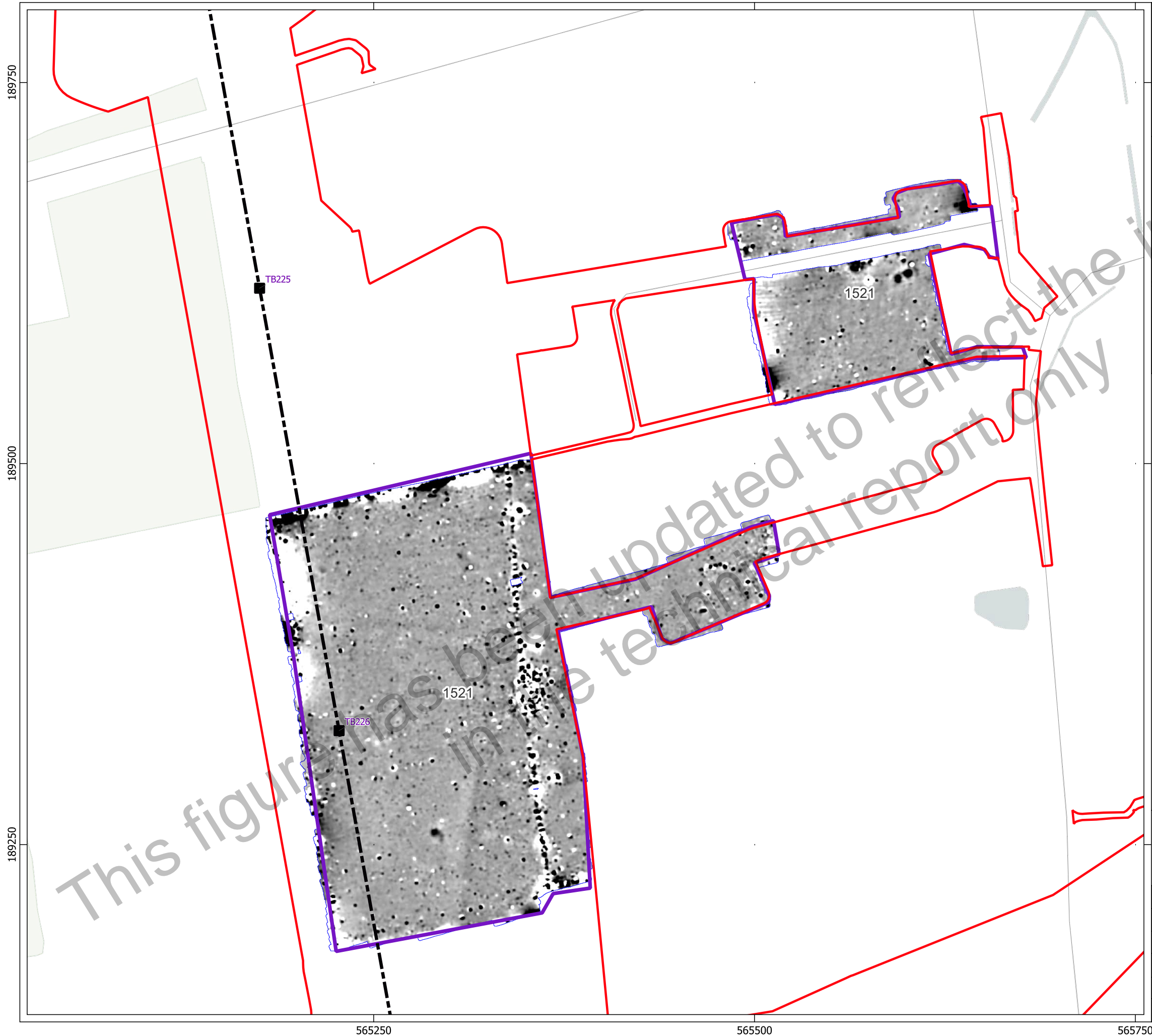


- Key**
- Order Limits
 - Geophysical Survey Area
 - Survey Extent
 - Proposed Overhead Line Alignment
 - Proposed Pylon Location
- Geophys Interpretation**
- Ferrous Objects
 - Agriculture
 - Field Drain
 - Natural
 - Service
 - Magnetic Disturbance (Above Ground)
 - Magnetic Disturbance (Below Ground)
 - Natural
 - Quarry
 - Uncertain

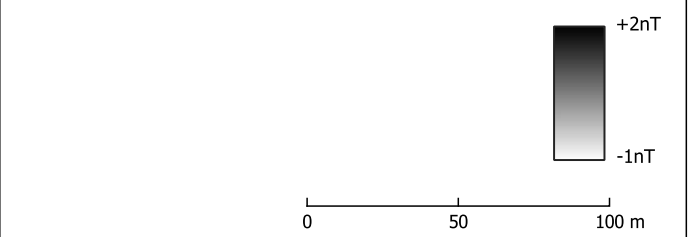


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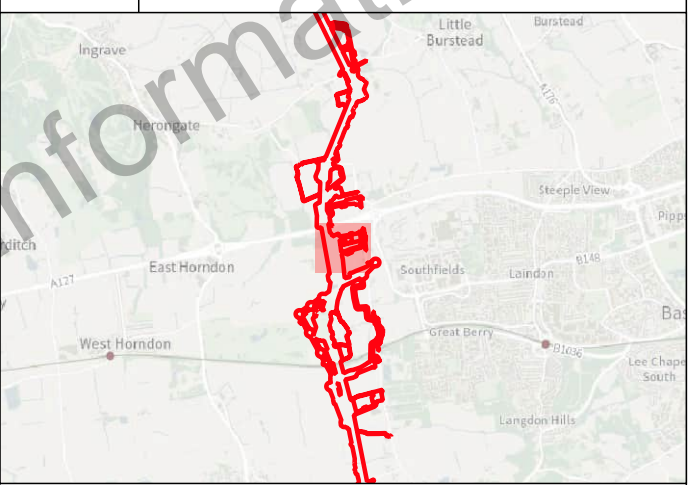
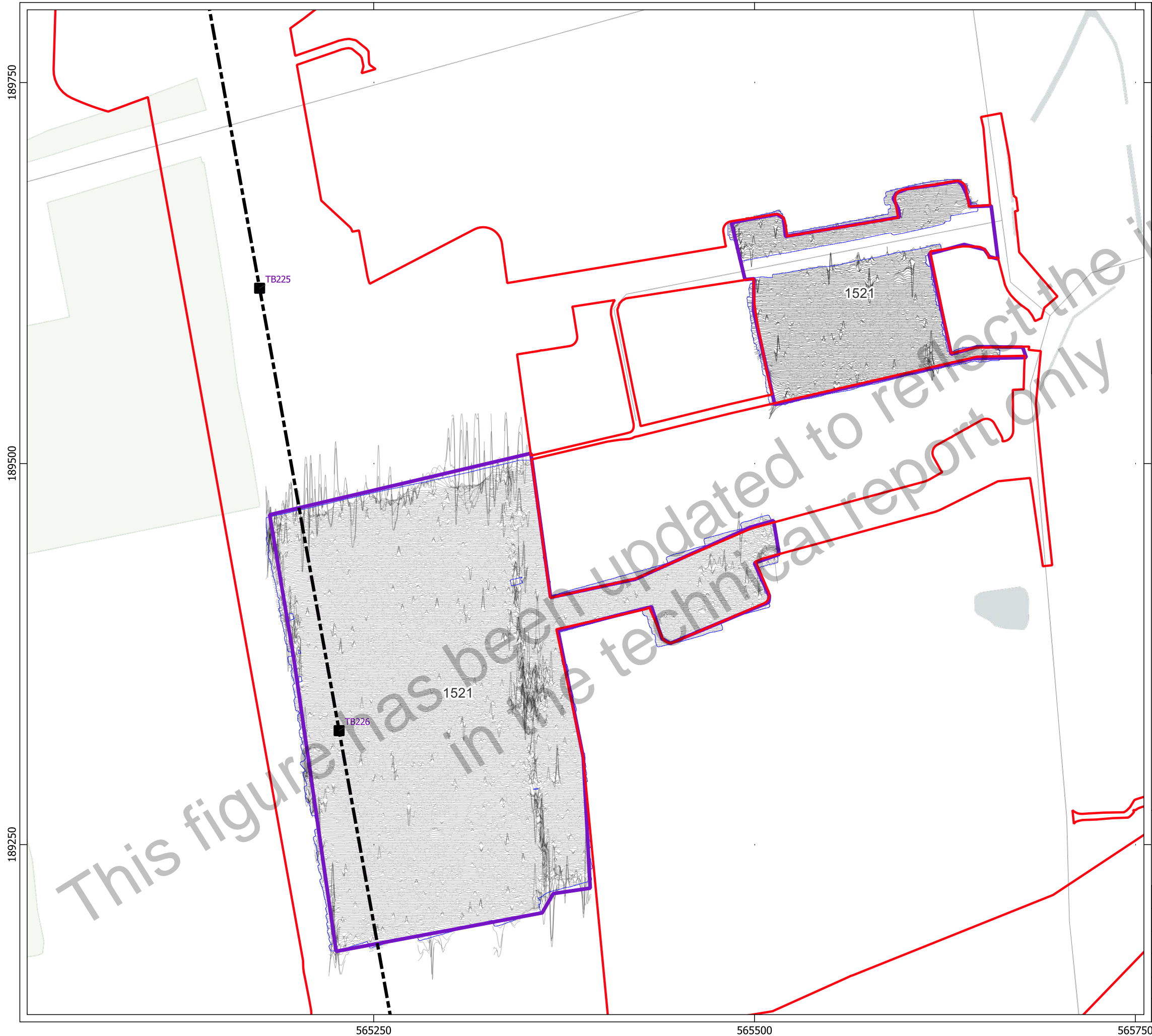
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- Order Limits
 - Geophysical Survey Area
 - Survey Extent
 - Proposed Overhead Line Alignment
 - Proposed Pylon Location



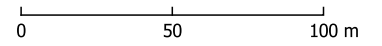
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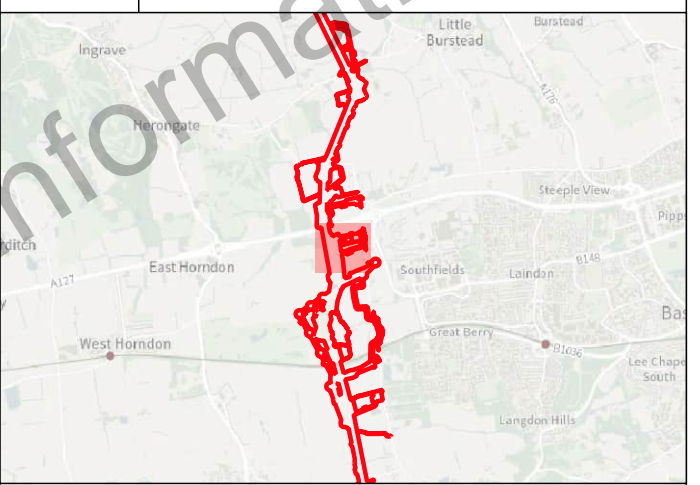
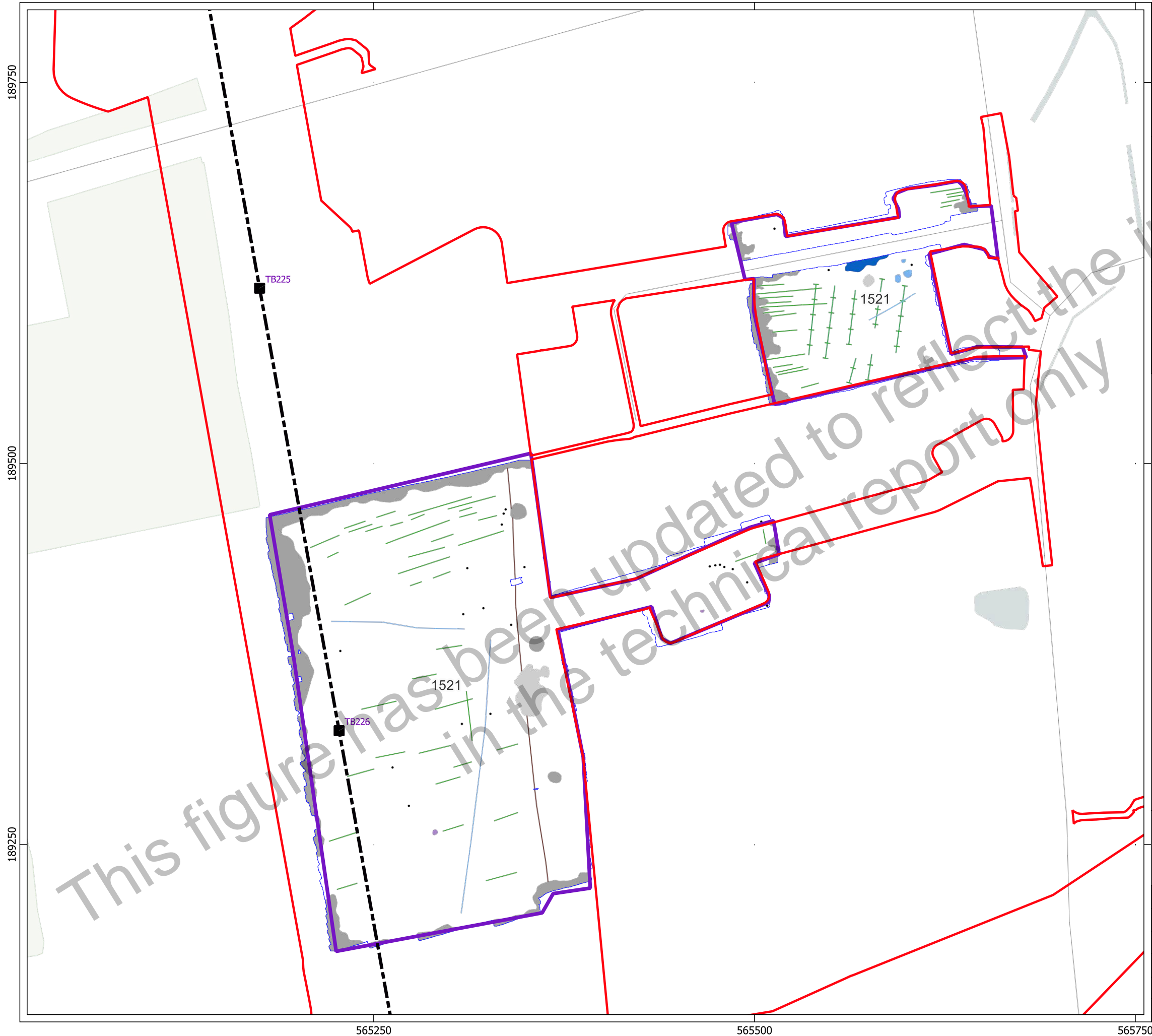
- Key**
- ▭ Order Limits
 - ▭ Geophysical Survey Area
 - ▭ Survey Extent
 - Proposed Overhead Line Alignment
 - Proposed Pylon Location
 - XY Trace (25nT/cm)



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Key

- Order Limits
- Geophysical Survey Area
- Survey Extent
- Proposed Overhead Line Alignment
- Proposed Pylon Location

Geophys Interpretation

- Ferrous Objects
- Agriculture
- Field Boundary
- Field Drain
- Natural
- Magnetic Disturbance (Above Ground)
- Magnetic Disturbance (Below Ground)
- Natural
- Uncertain
- Former Pond

0 50 100 m

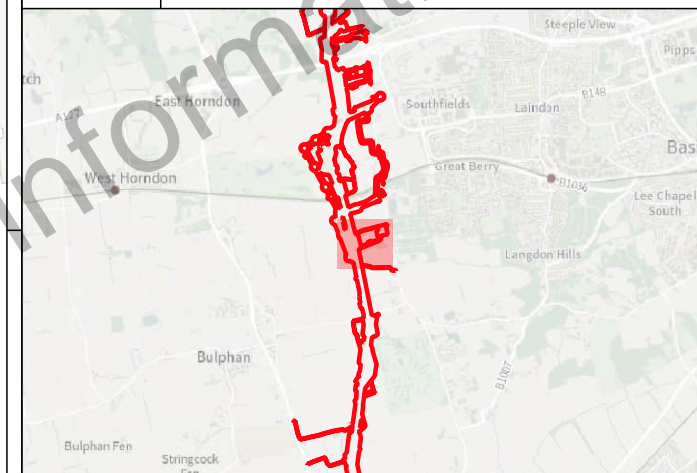
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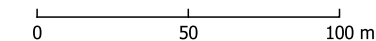
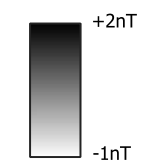
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Key

- Order Limits
- Geophysical Survey Area
- Survey Extent
- Proposed Overhead Line Alignment
- Proposed Pylon Location



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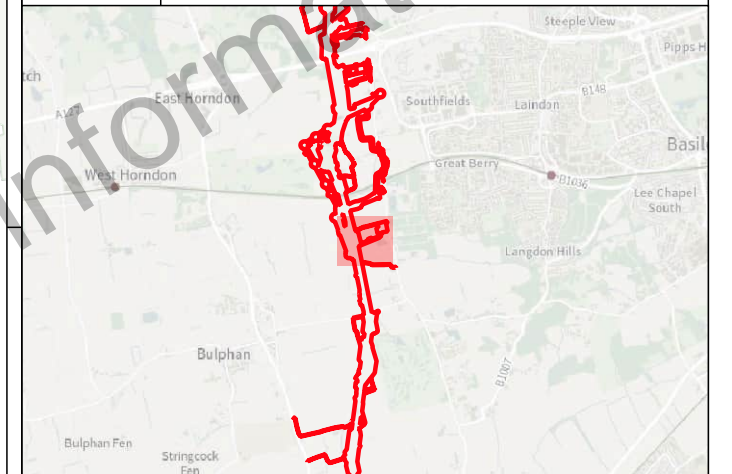
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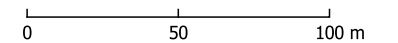
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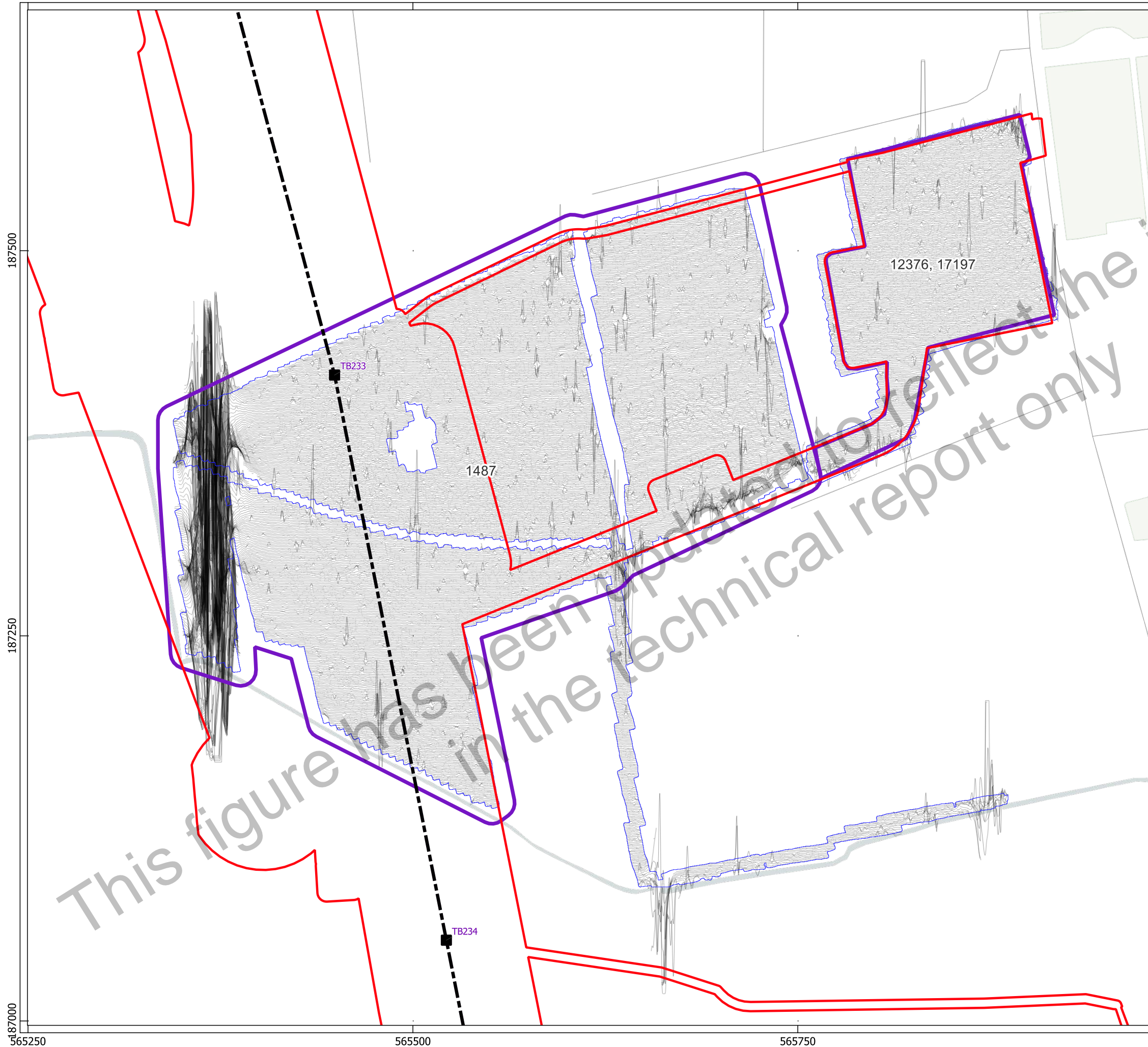
-  Order Limits
-  Geophysical Survey Area
-  Survey Extent
-  Proposed Overhead Line Alignment
-  Proposed Pylon Location
-  XY Trace (25nT/cm)

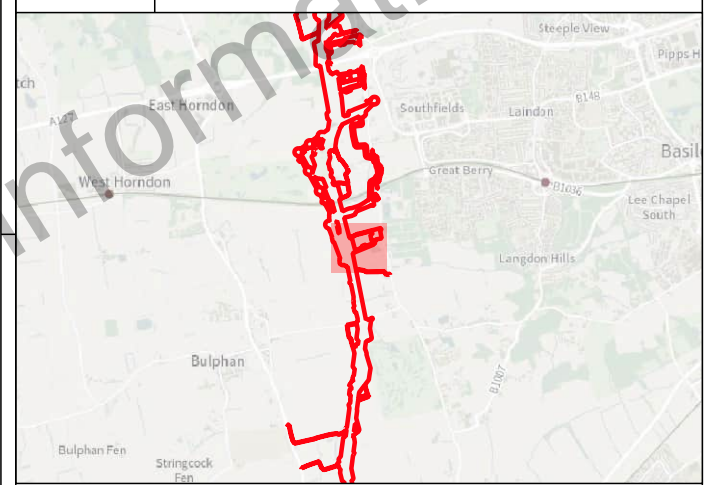
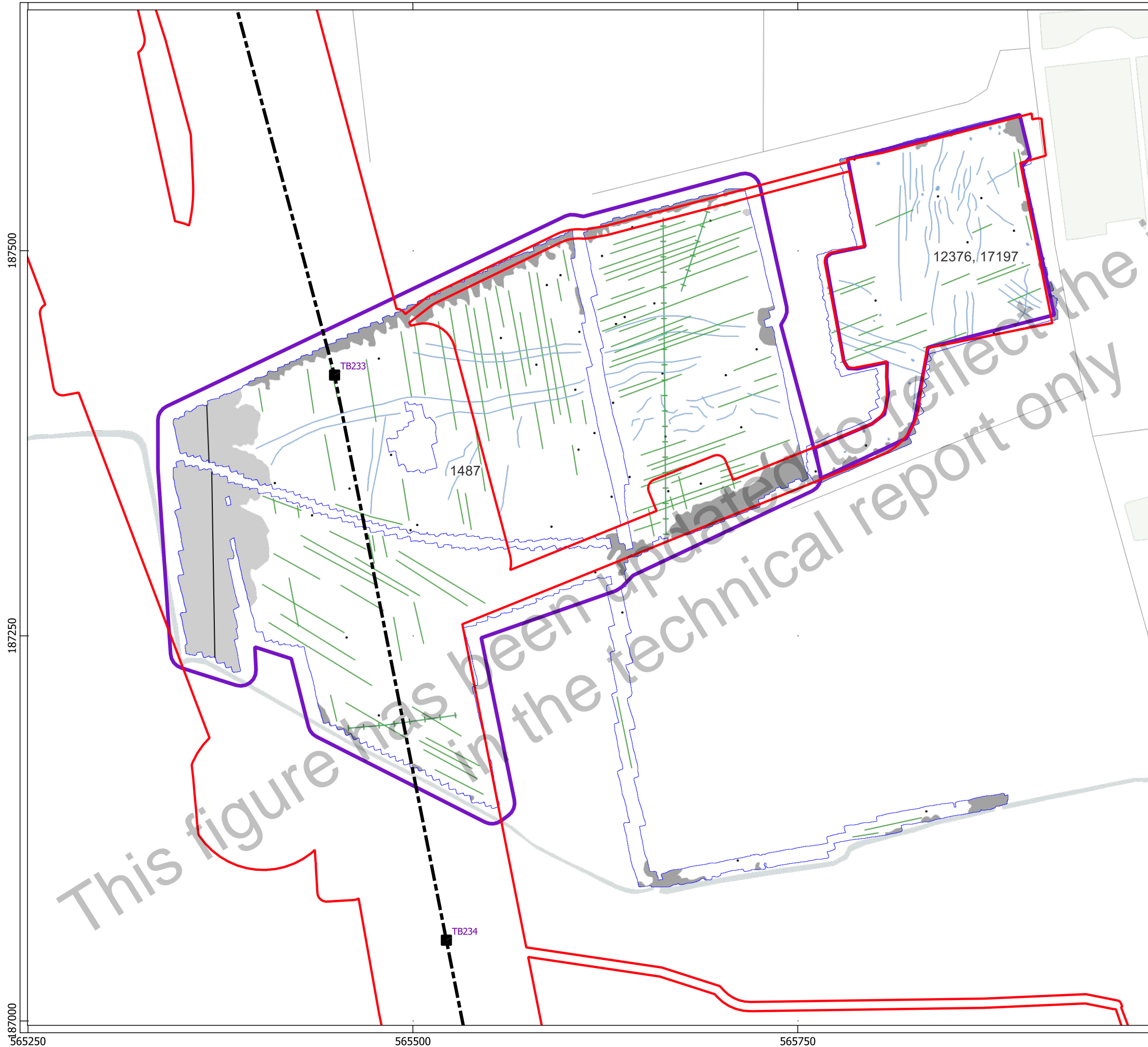


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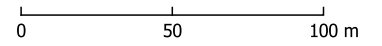
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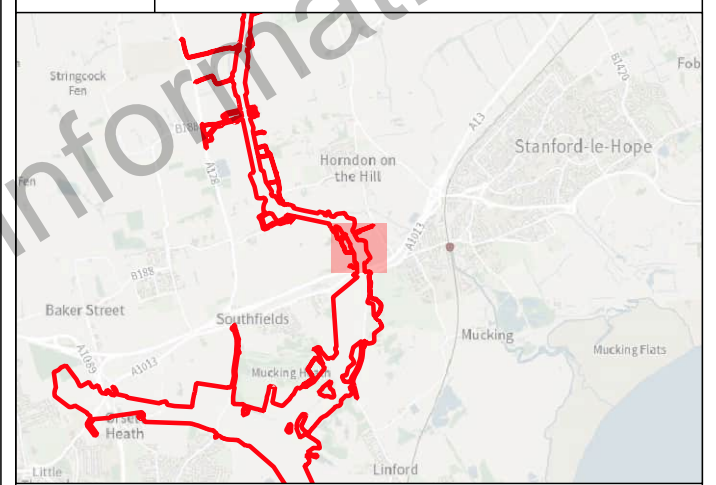


- Key**
- Order Limits
 - Geophysical Survey Area
 - Survey Extent
 - Proposed Overhead Line Alignment
 - Proposed Pylon Location
- Geophys Interpretation**
- Ferrous Objects
 - Agriculture
 - Field Drain
 - Natural
 - Service
 - Magnetic Disturbance (Above Ground)
 - Magnetic Disturbance (Below Ground)
 - Natural

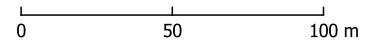
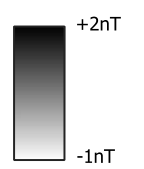


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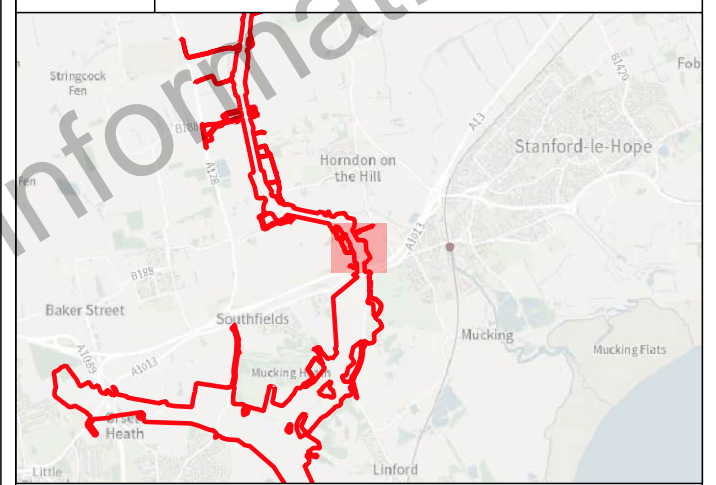
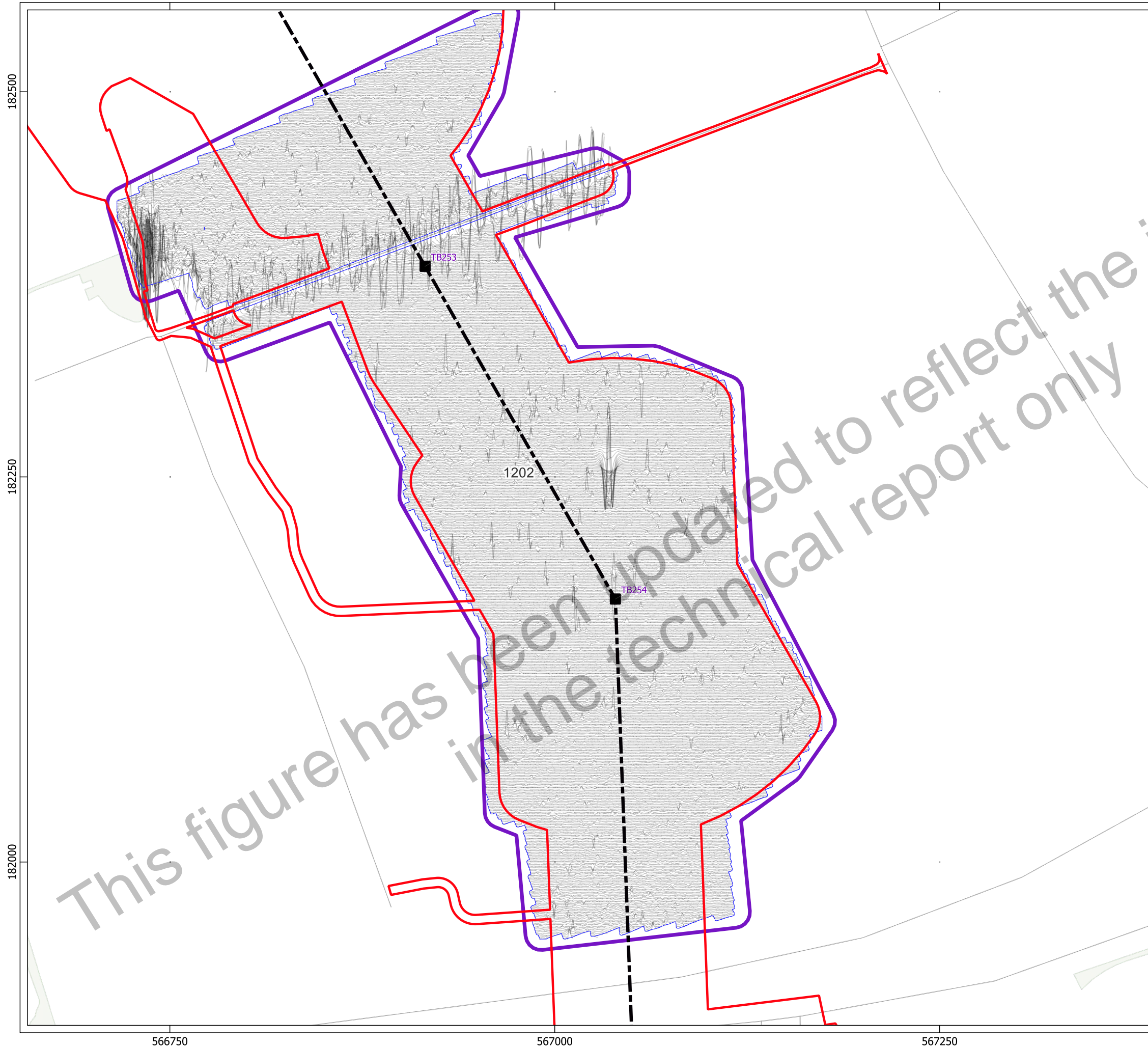


- Key**
- Order Limits
 - Geophysical Survey Area
 - Survey Extent
 - Proposed Overhead Line Alignment
 - Proposed Pylon Location

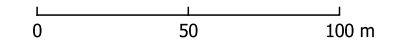


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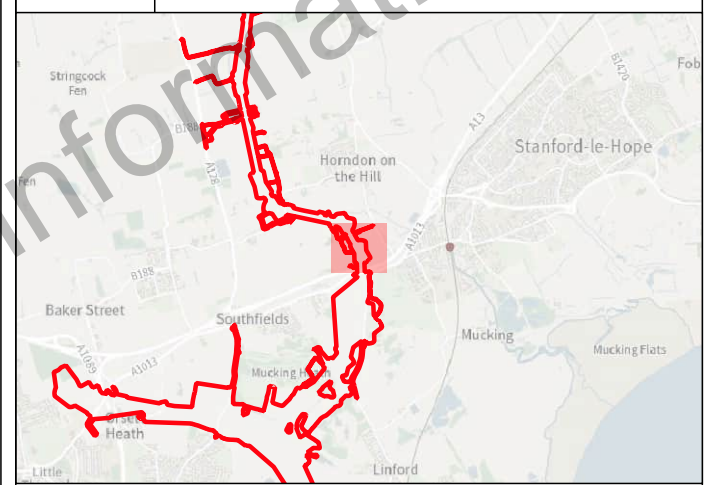
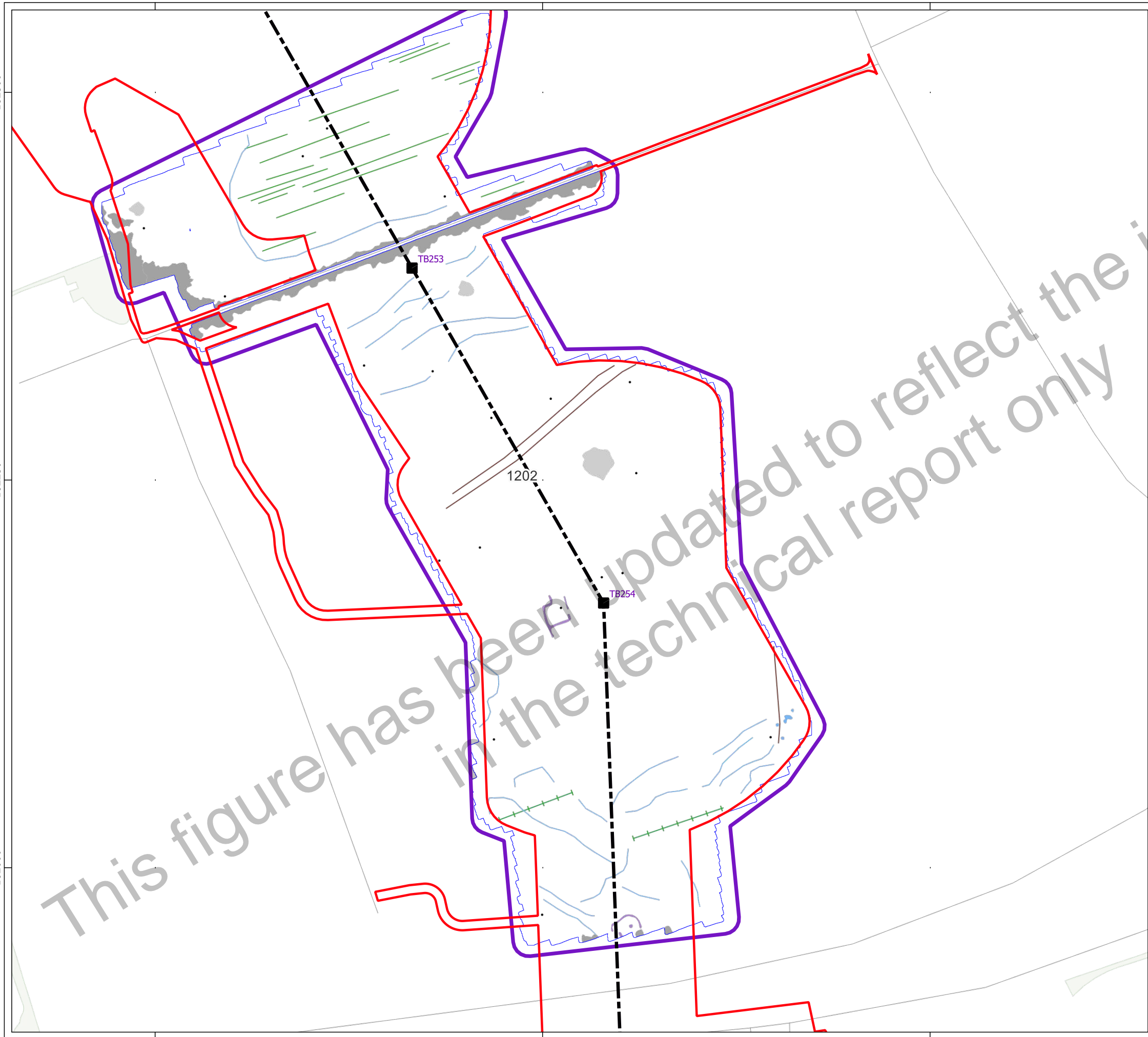


- Key**
- ▭ Order Limits
 - ▭ Geophysical Survey Area
 - ▭ Survey Extent
 - Proposed Overhead Line Alignment
 - Proposed Pylon Location
 - XY Trace (25nT/cm)

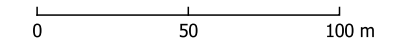


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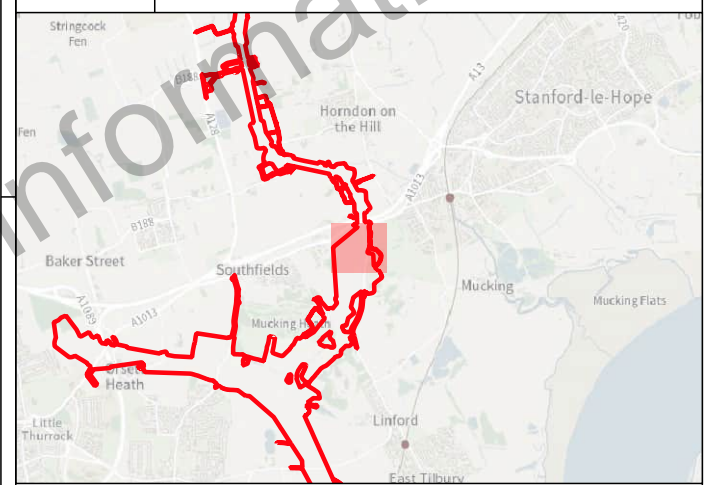
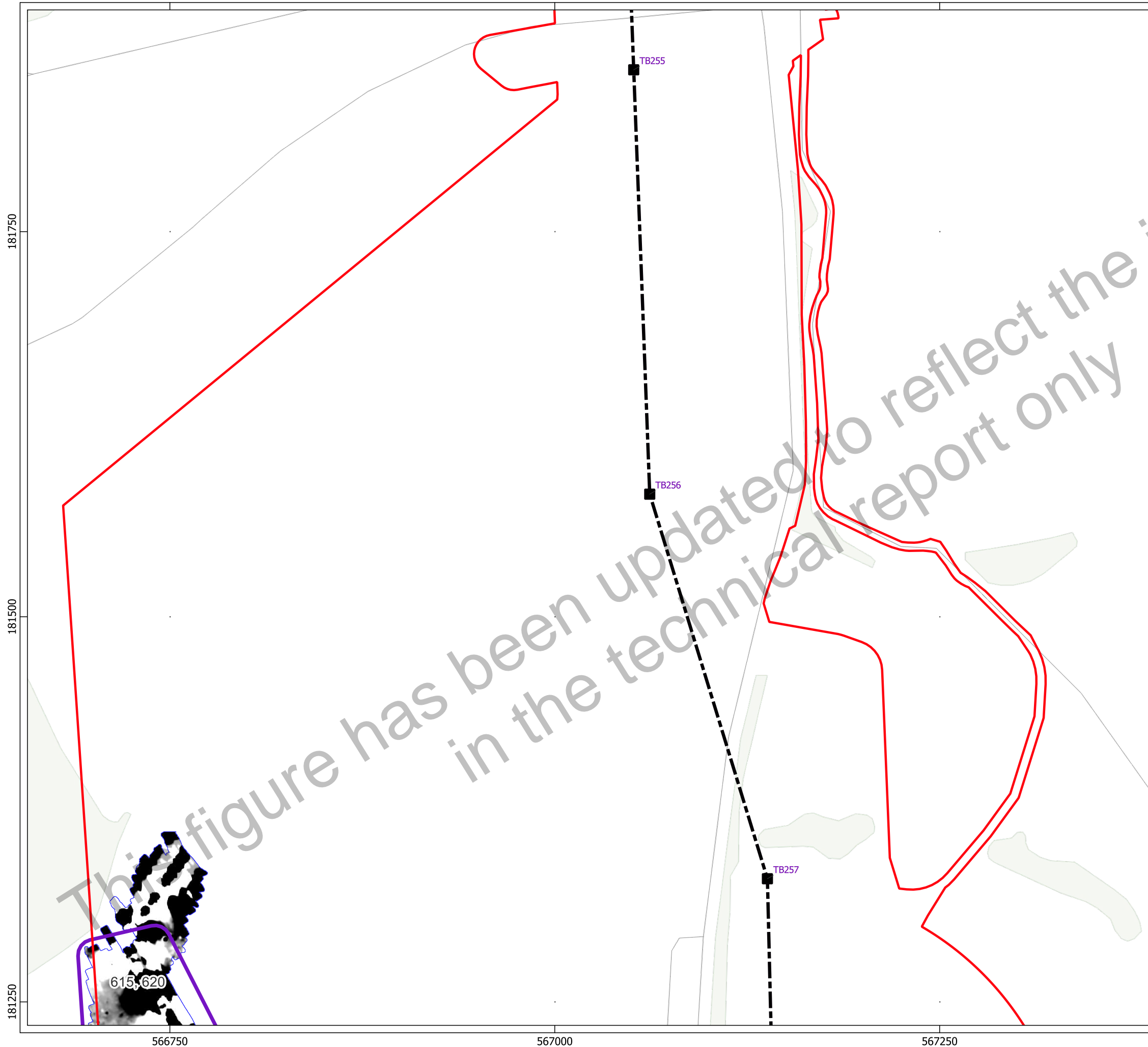


- Key**
- Order Limits
 - Geophysical Survey Area
 - Survey Extent
 - Proposed Overhead Line Alignment
 - Proposed Pylon Location
- Geophys Interpretation**
- Ferrous Objects
 - Agriculture
 - Field Boundary
 - Field Drain
 - Natural
 - Magnetic Disturbance (Above Ground)
 - Magnetic Disturbance (Below Ground)
 - Natural
 - Uncertain

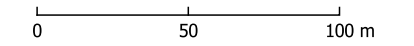
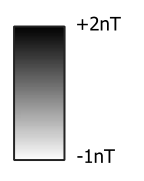


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- Key**
- Order Limits
 - Geophysical Survey Area
 - Survey Extent
 - Proposed Overhead Line Alignment
 - Proposed Pylon Location

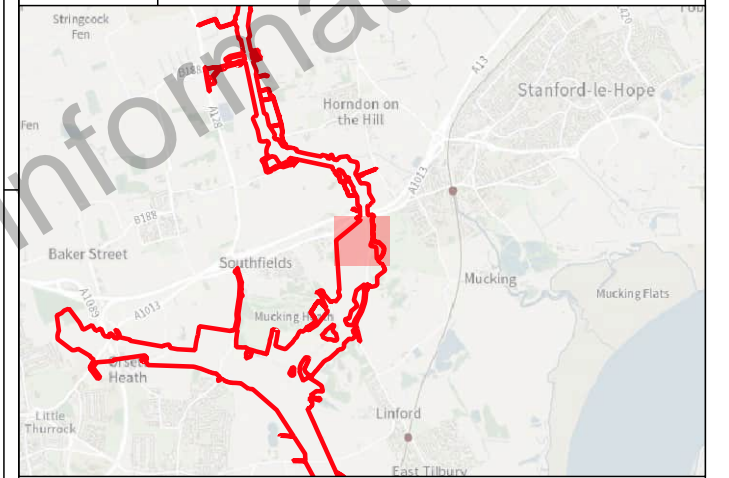


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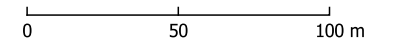
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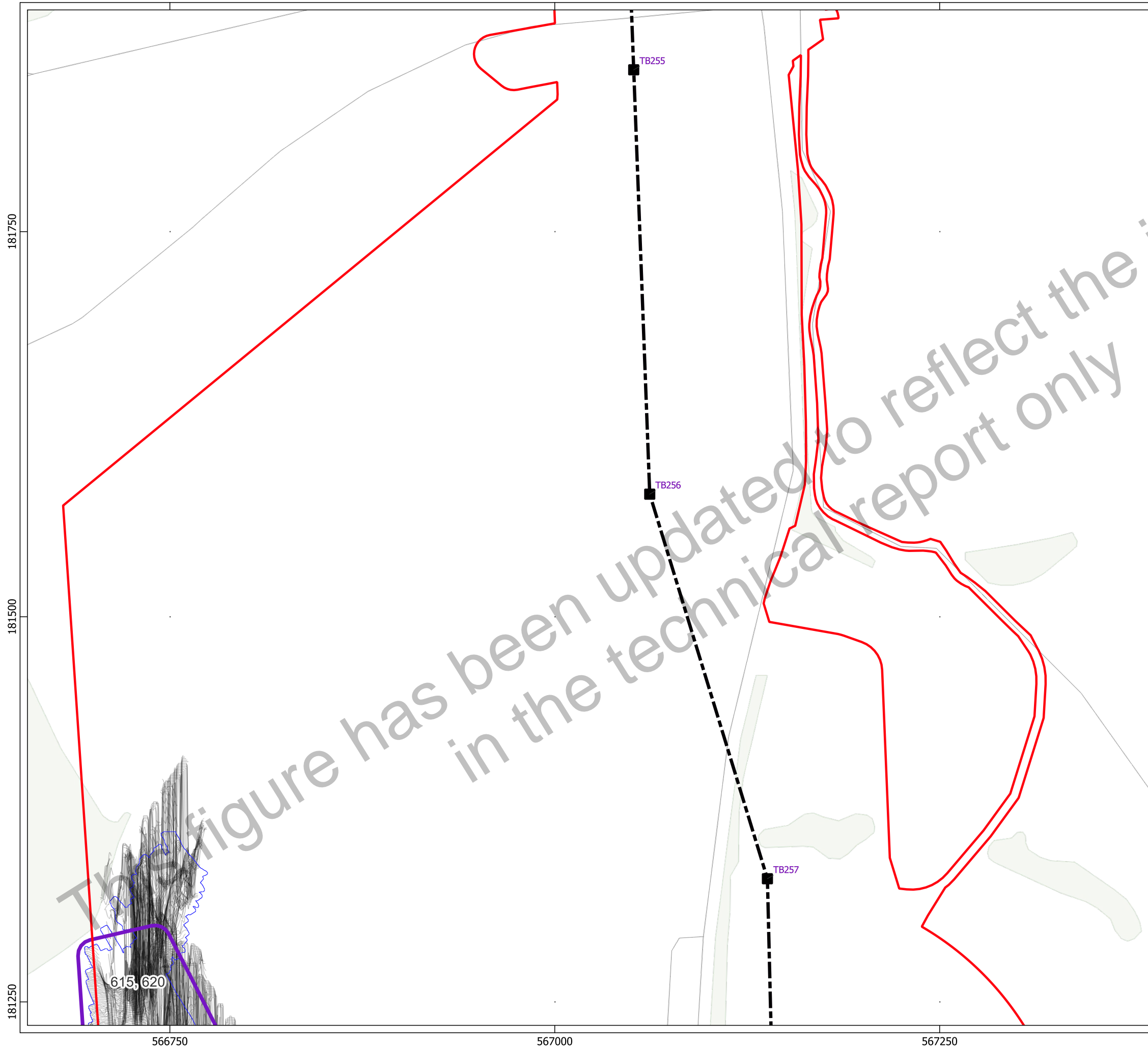
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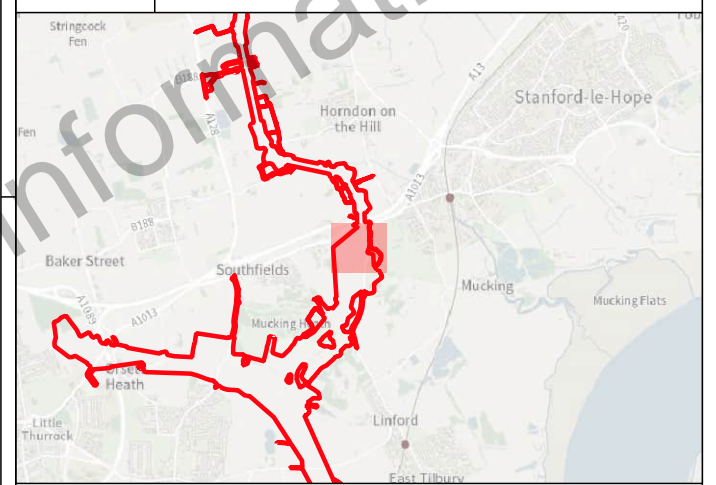
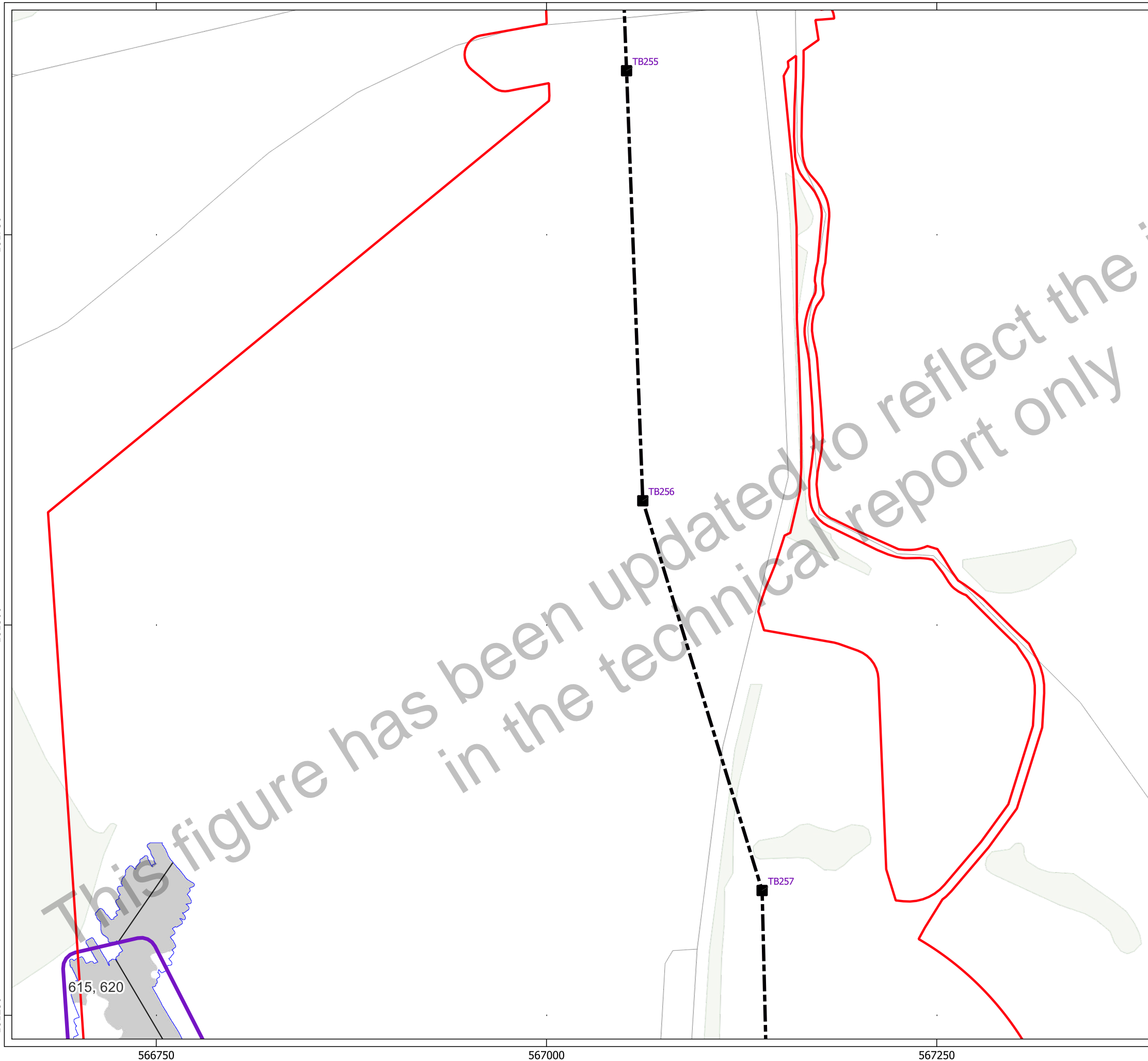
- ▭ Order Limits
- ▭ Geophysical Survey Area
- ▭ Survey Extent
- Proposed Overhead Line Alignment
- Proposed Pylon Location
- XY Trace (25nT/cm)



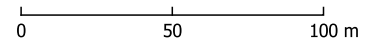
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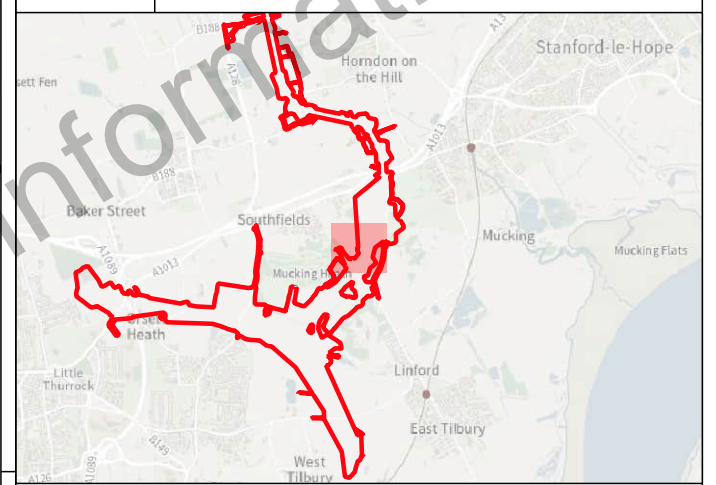
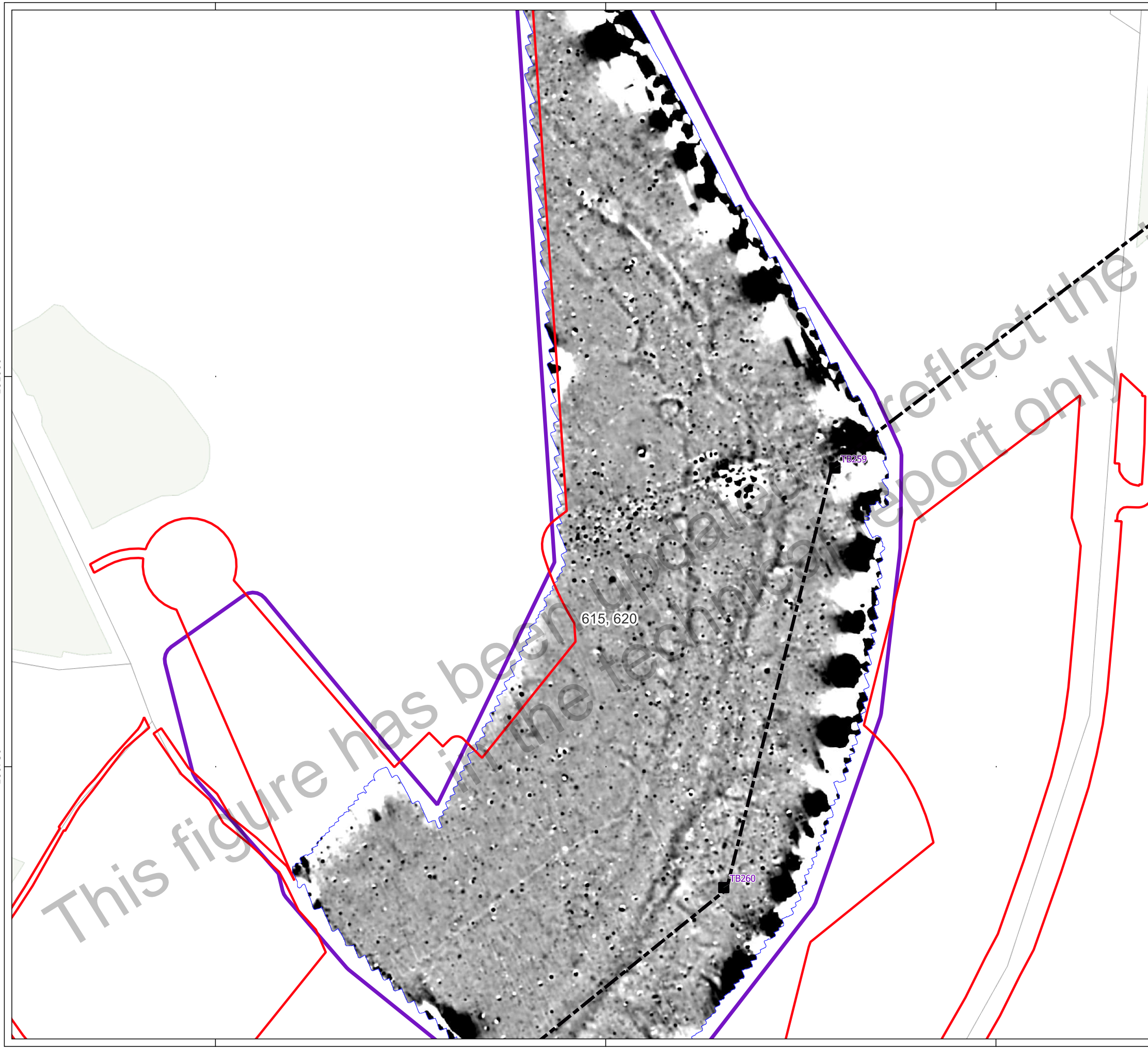


- Key**
- Order Limits
 - Geophysical Survey Area
 - Survey Extent
 - Proposed Overhead Line Alignment
 - Proposed Pylon Location
- Geophys Interpretation**
- Service
 - Magnetic Disturbance (Below Ground)

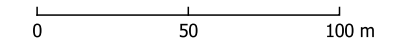
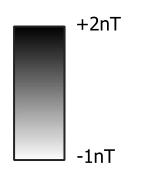


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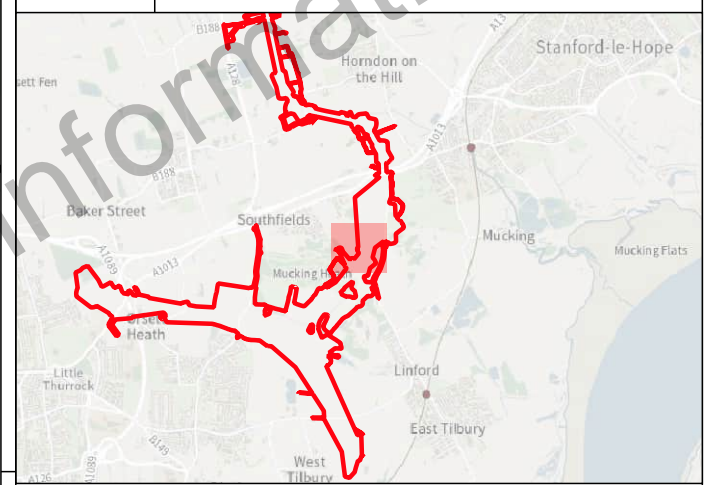
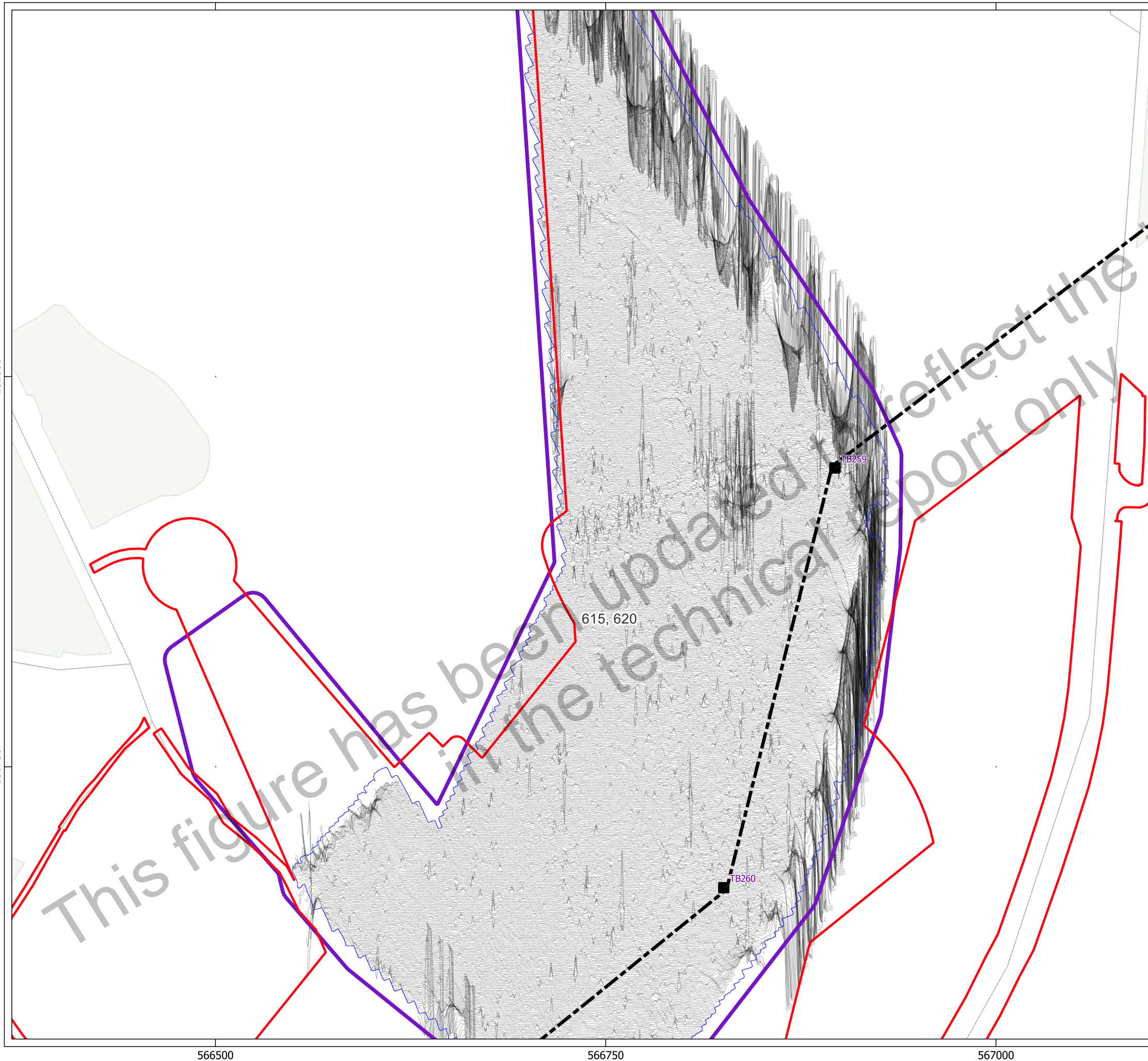


- Key**
- Order Limits
 - Geophysical Survey Area
 - Survey Extent
 - Proposed Overhead Line Alignment
 - Proposed Pylon Location

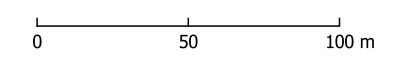


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- Key**
- ▭ Order Limits
 - ▭ Geophysical Survey Area
 - ▭ Survey Extent
 - Proposed Overhead Line Alignment
 - Proposed Pylon Location
 - XY Trace (25nT/cm)



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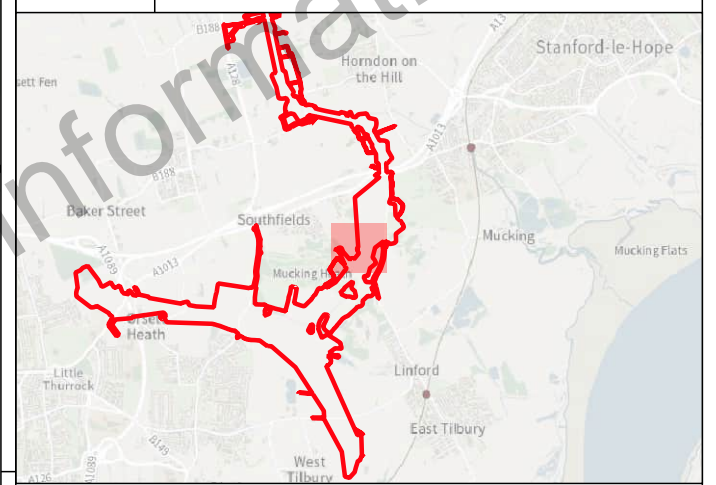
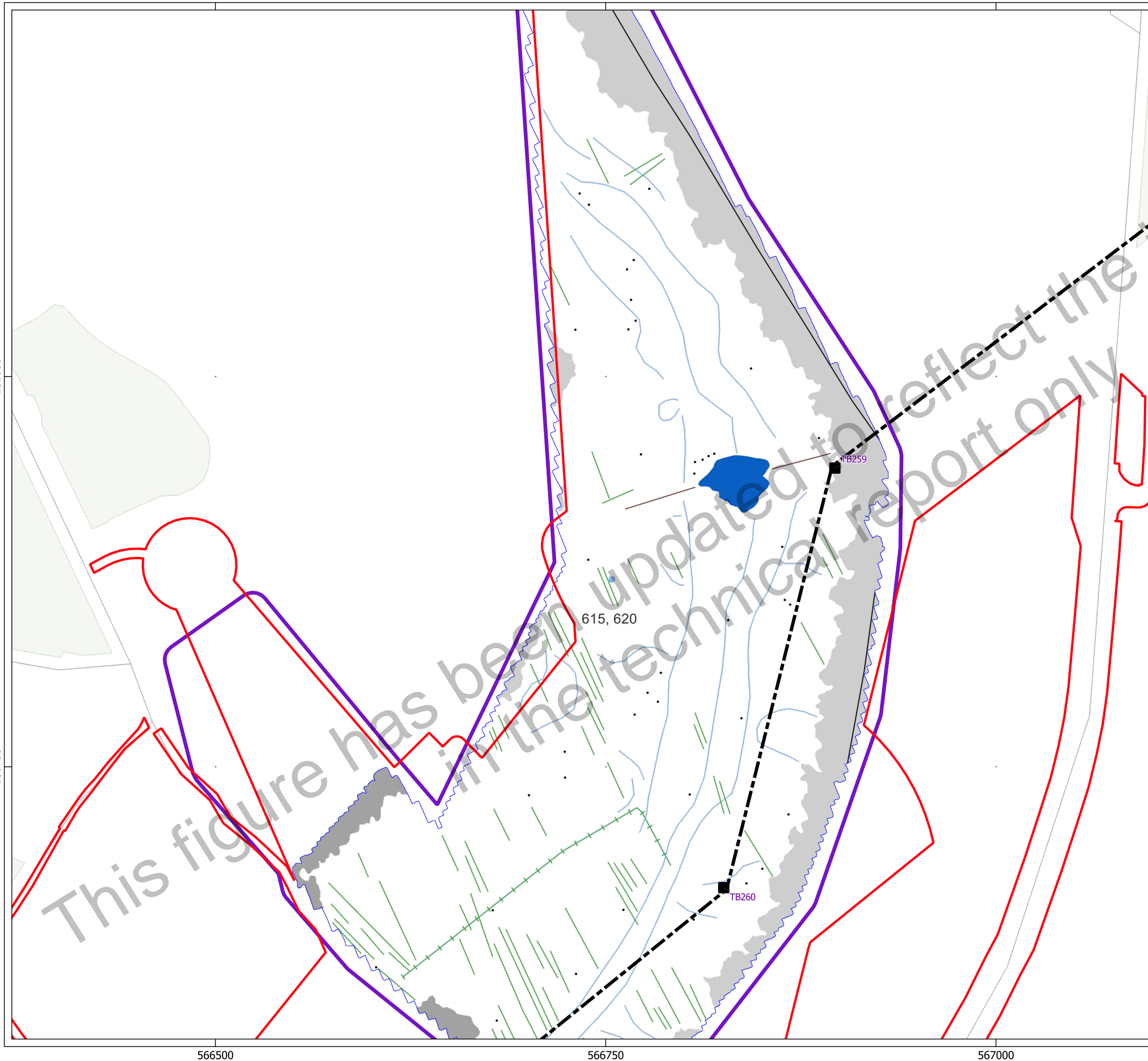
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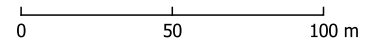
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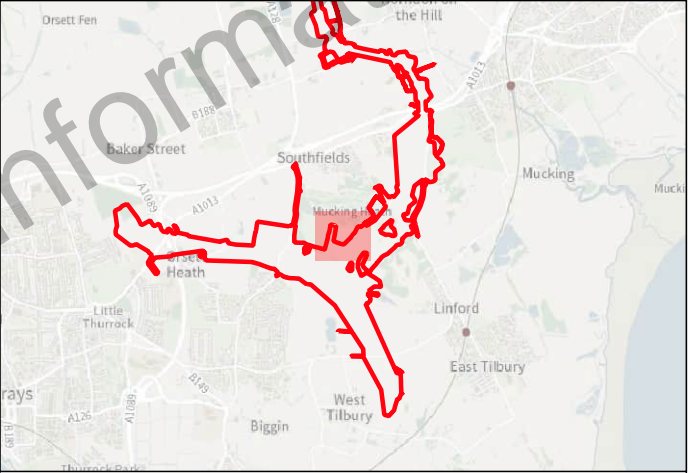


- Key**
- Order Limits
 - Geophysical Survey Area
 - Survey Extent
 - Proposed Overhead Line Alignment
 - Proposed Pylon Location
- Geophys Interpretation**
- Ferrous Objects
 - Agriculture
 - Field Boundary
 - Field Drain
 - Natural
 - Service
 - Magnetic Disturbance (Above Ground)
 - Magnetic Disturbance (Below Ground)
 - Natural
 - Former Pond

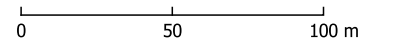
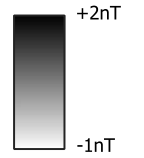


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- Key**
- Order Limits
 - Geophysical Survey Area
 - Survey Extent
 - Proposed Overhead Line Alignment
 - Proposed Pylon Location



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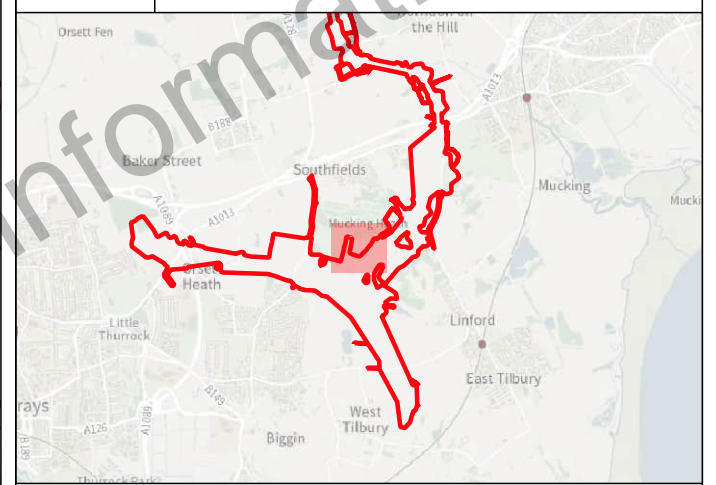
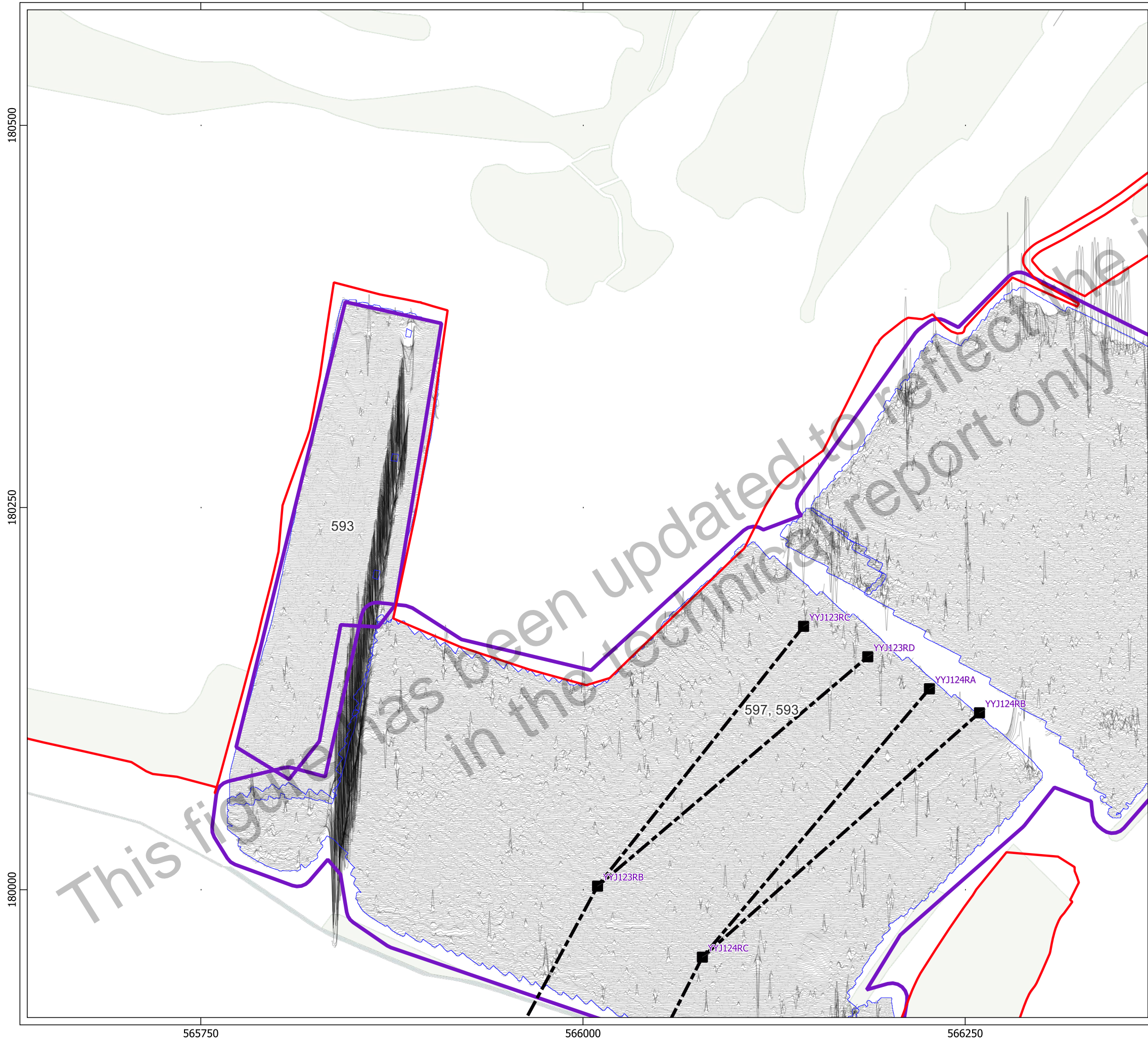
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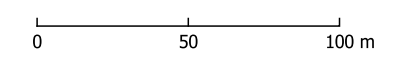
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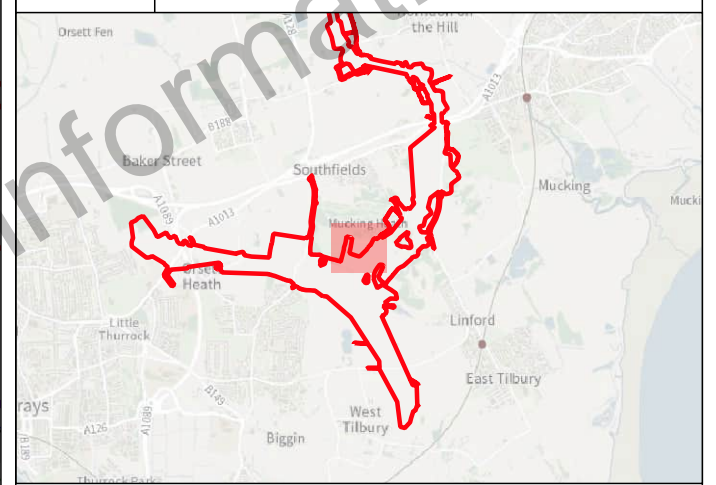
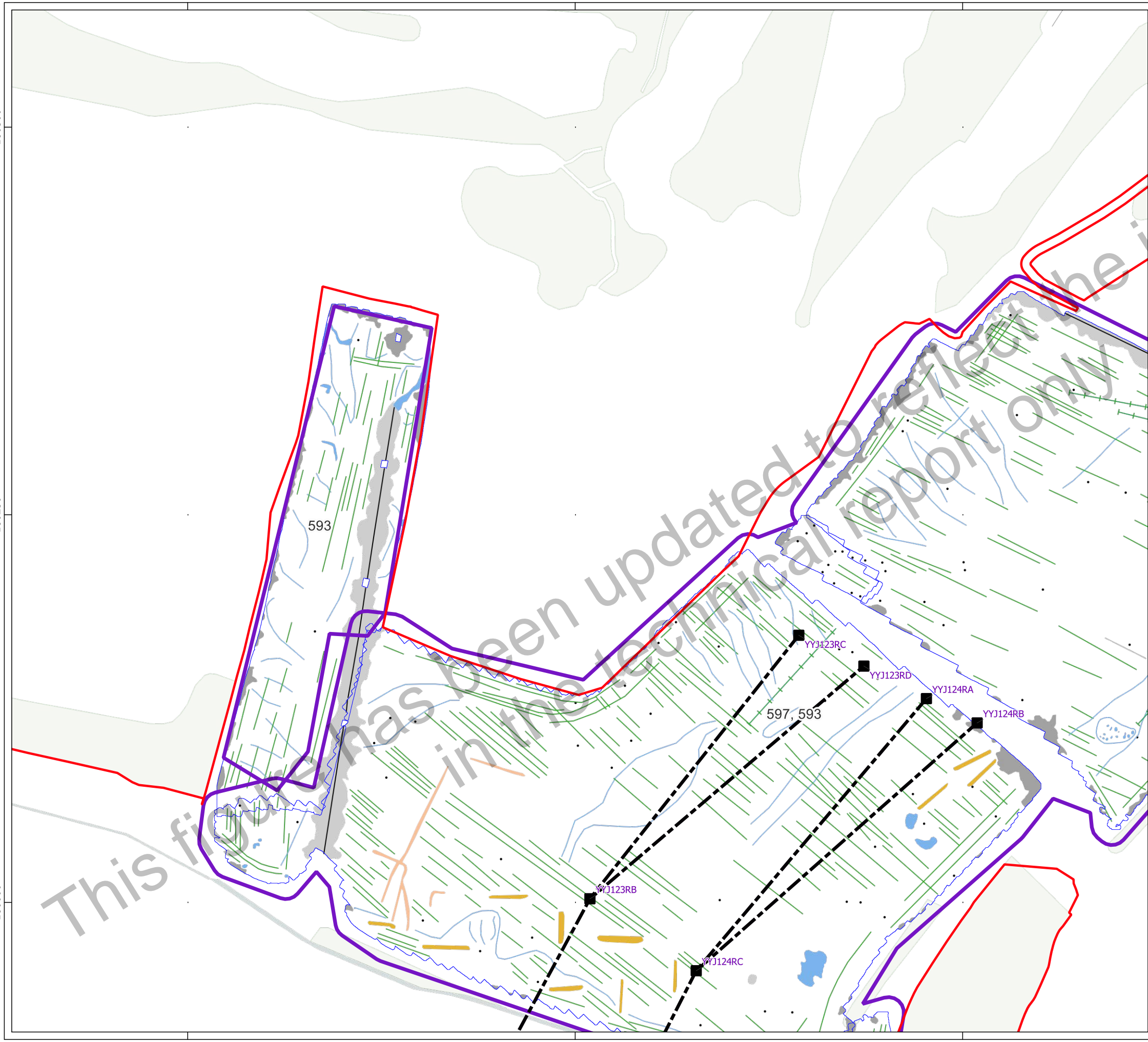


- Key**
- ▭ Order Limits
 - ▭ Geophysical Survey Area
 - ▭ Survey Extent
 - Proposed Overhead Line Alignment
 - Proposed Pylon Location
 - XY Trace (25nT/cm)



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Key

- Order Limits
- Geophysical Survey Area
- Survey Extent
- Proposed Overhead Line Alignment
- Proposed Pylon Location

Geophys Interpretation

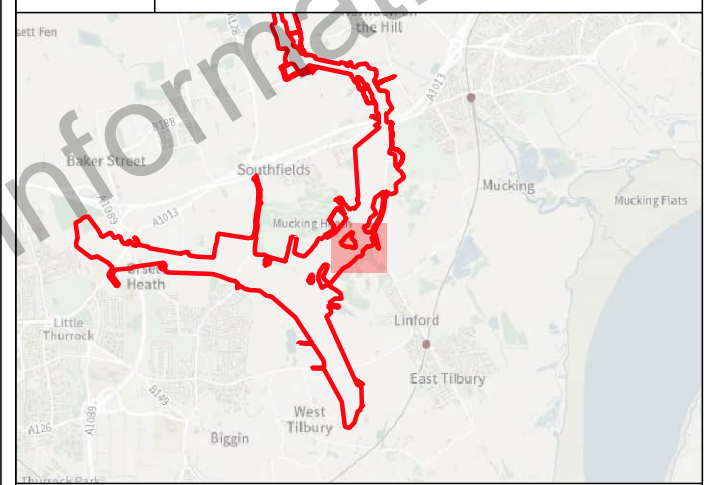
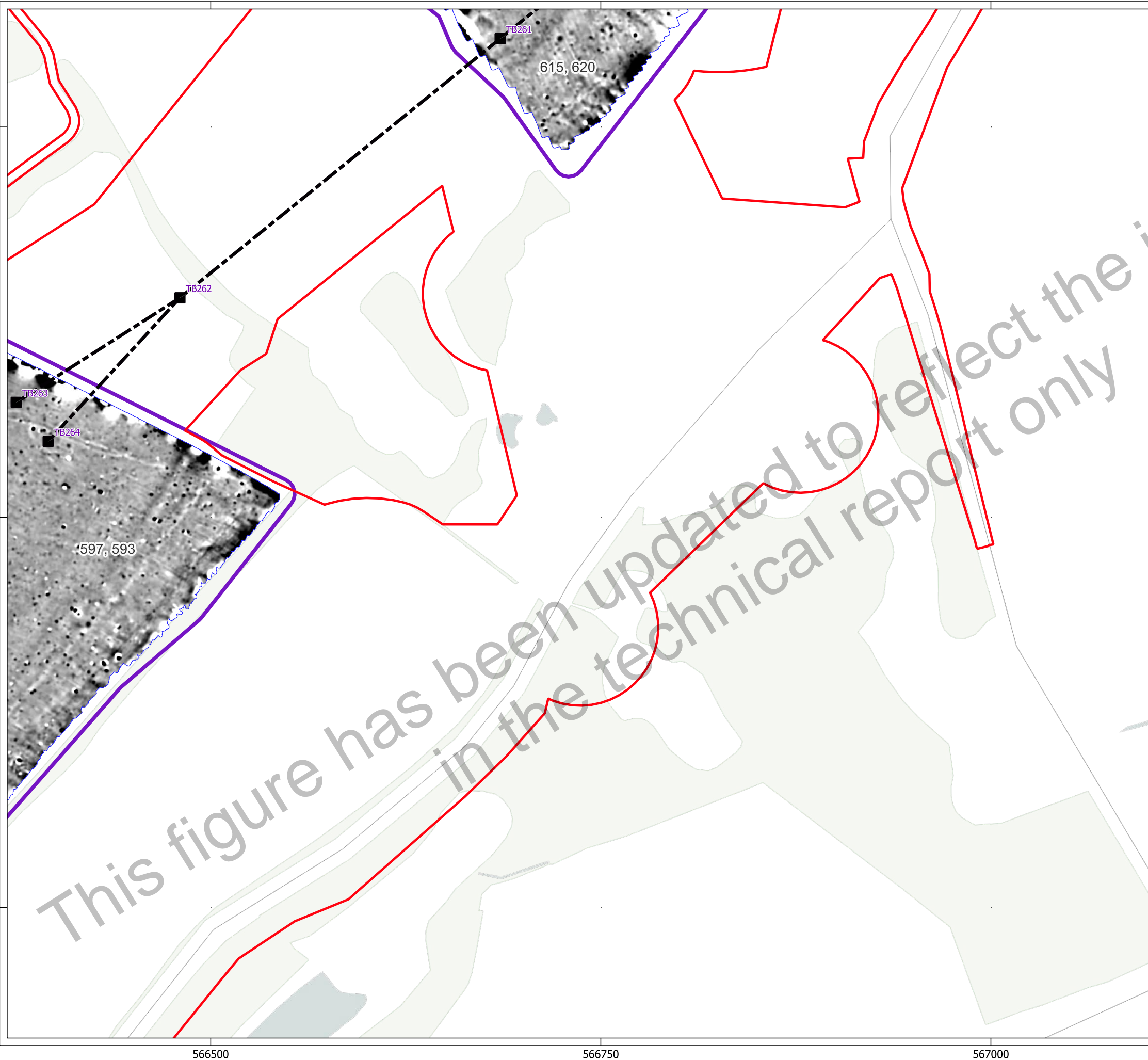
- Ferrous Objects
- Agriculture
- Data Artefact
- Field Drain
- Natural
- Service
- Magnetic Disturbance (Above Ground)
- Magnetic Disturbance (Below Ground)
- Natural
- Possible Archaeology
- Trial Trench

0 50 100 m

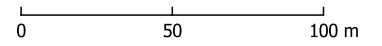
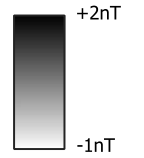
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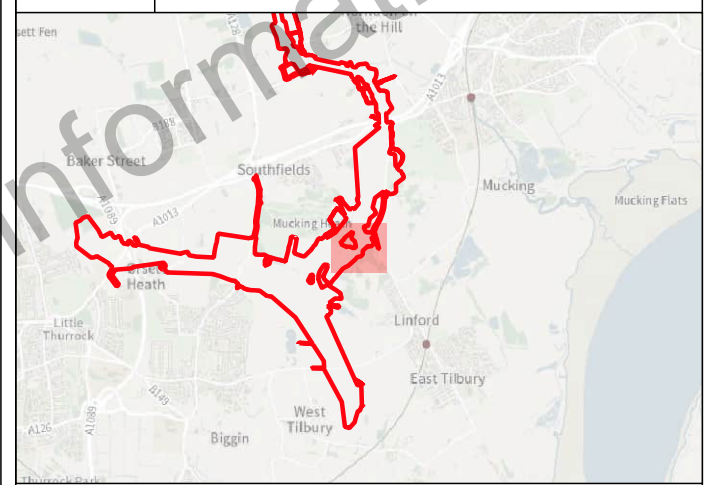
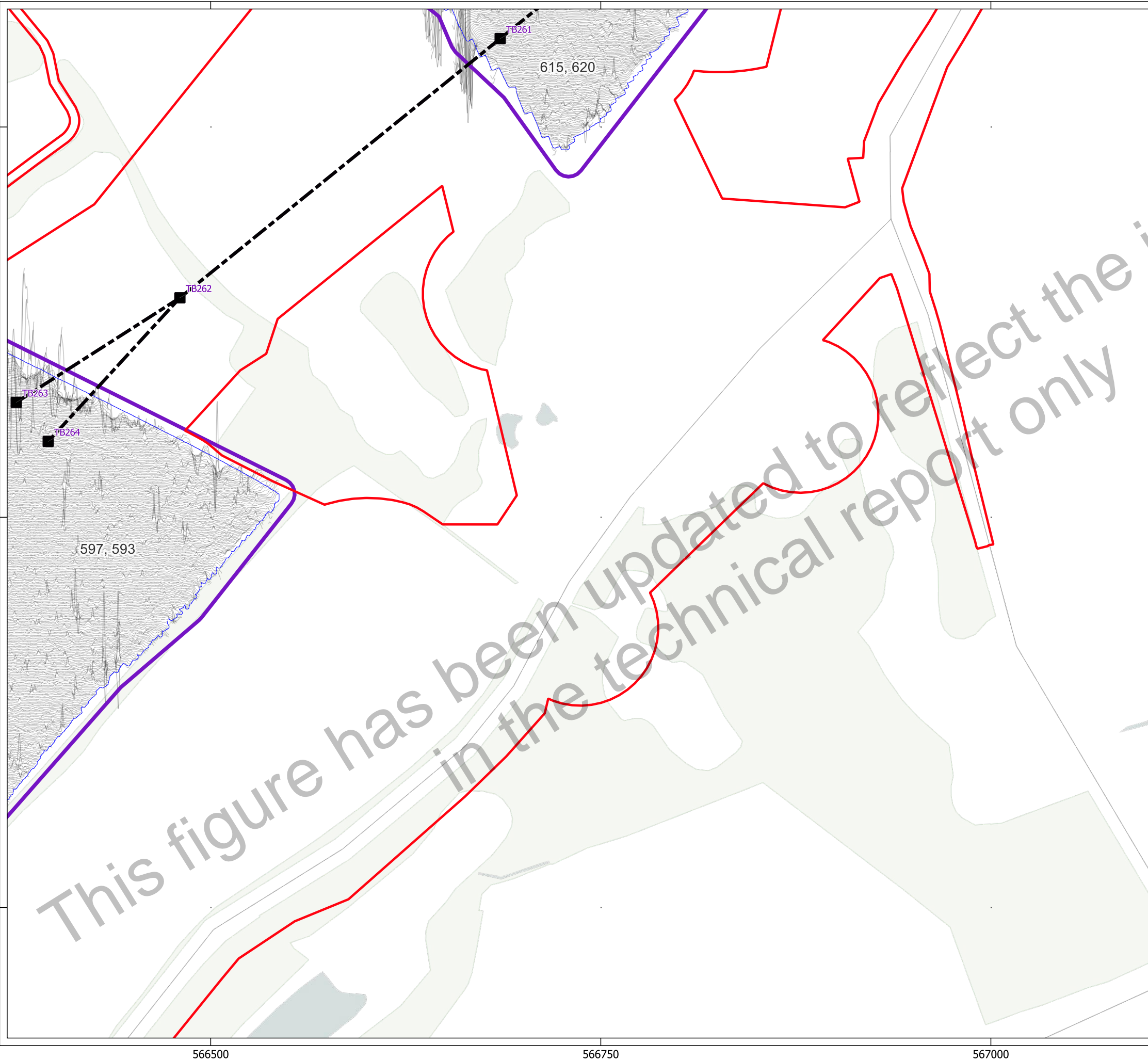


- Key**
- Order Limits
 - Geophysical Survey Area
 - Survey Extent
 - Proposed Overhead Line Alignment
 - Proposed Pylon Location

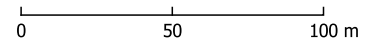


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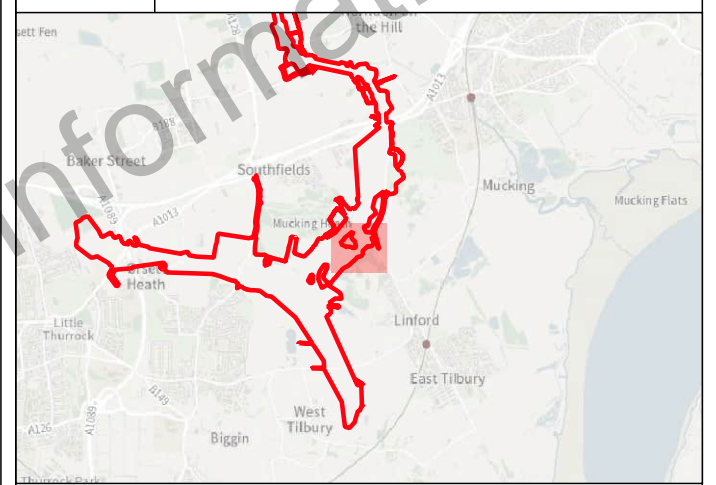
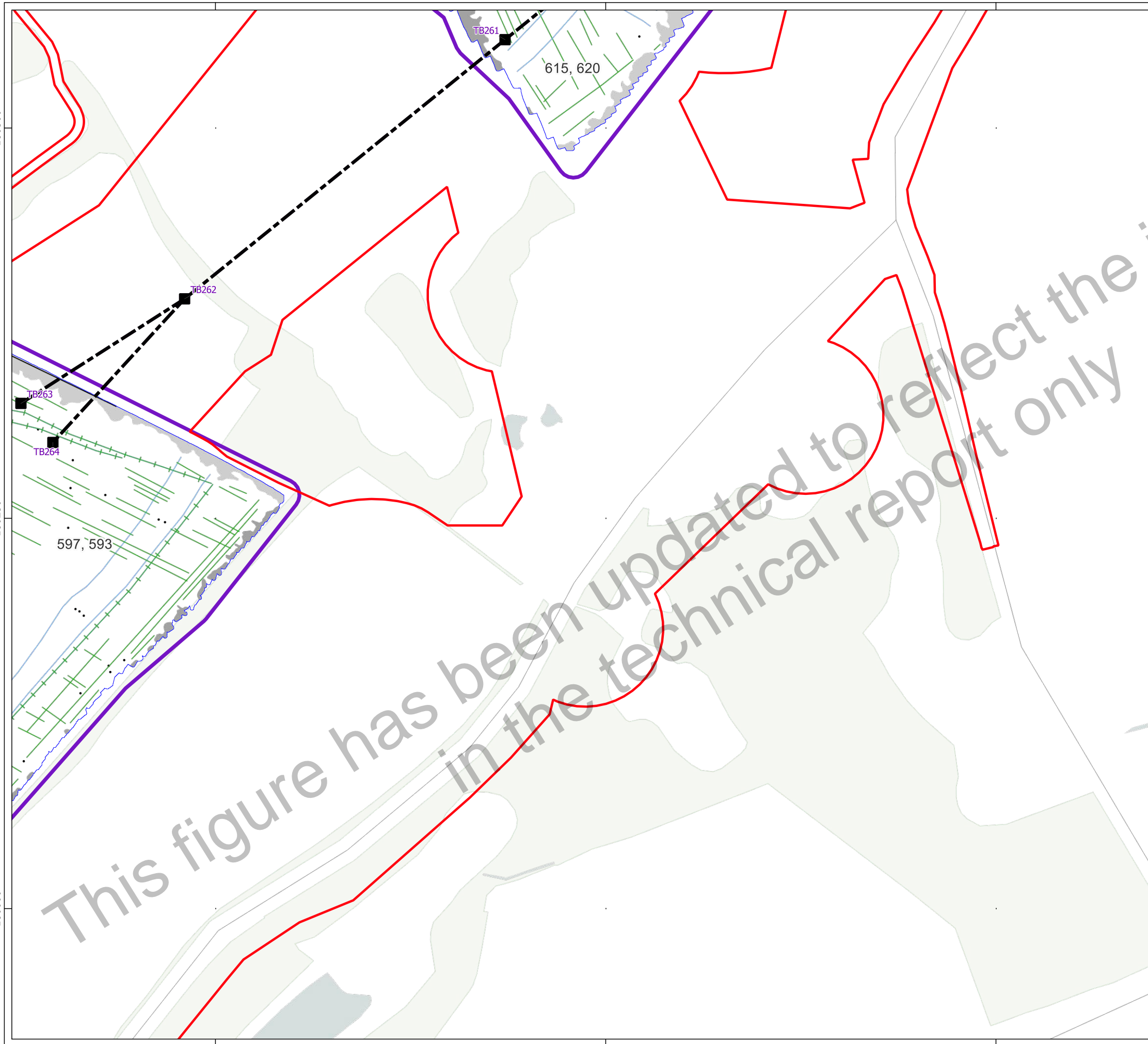


- Key**
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 - ▭ Geophysical Survey Area
 - ▭ Survey Extent
 - Proposed Overhead Line Alignment
 - Proposed Pylon Location
 - XY Trace (25nT/cm)

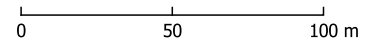


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- Key**
- Order Limits
 - Geophysical Survey Area
 - Survey Extent
 - Proposed Overhead Line Alignment
 - Proposed Pylon Location
- Geophys Interpretation**
- Ferrous Objects
 - Agriculture
 - Field Drain
 - Natural
 - Service
 - Magnetic Disturbance (Above Ground)
 - Magnetic Disturbance (Below Ground)



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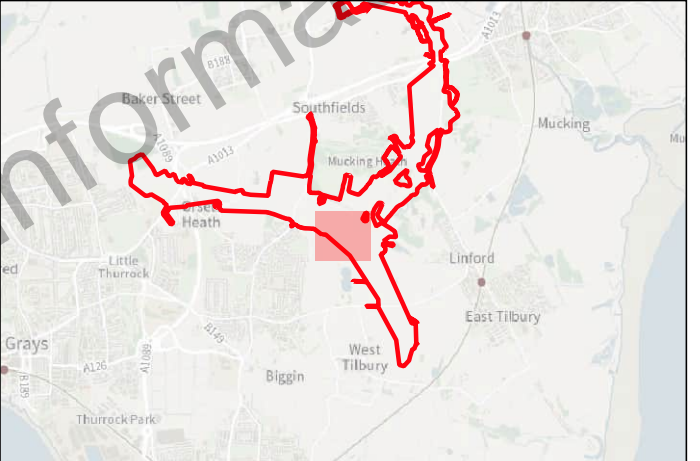
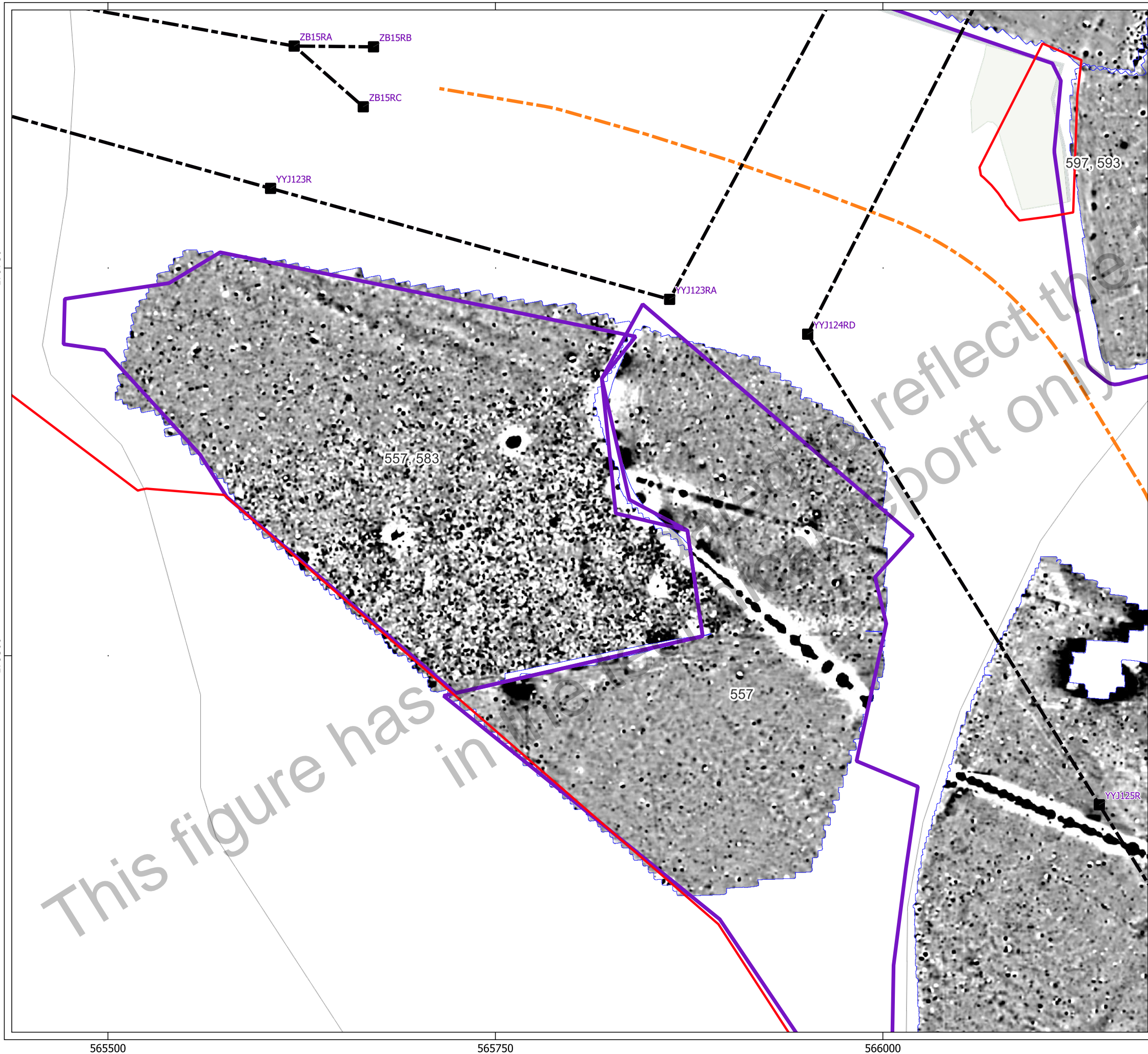
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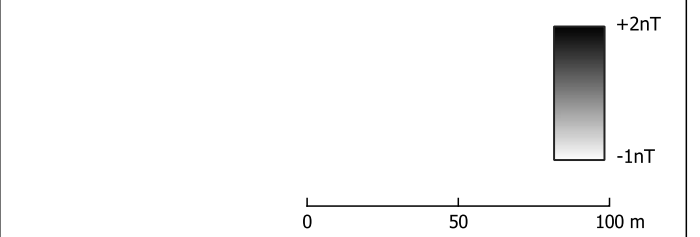
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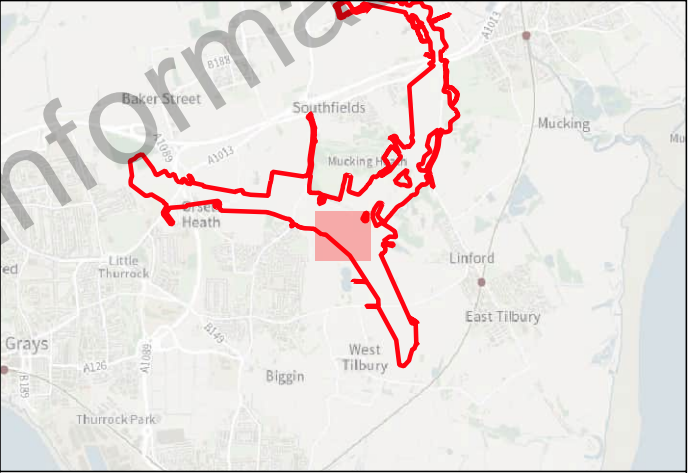
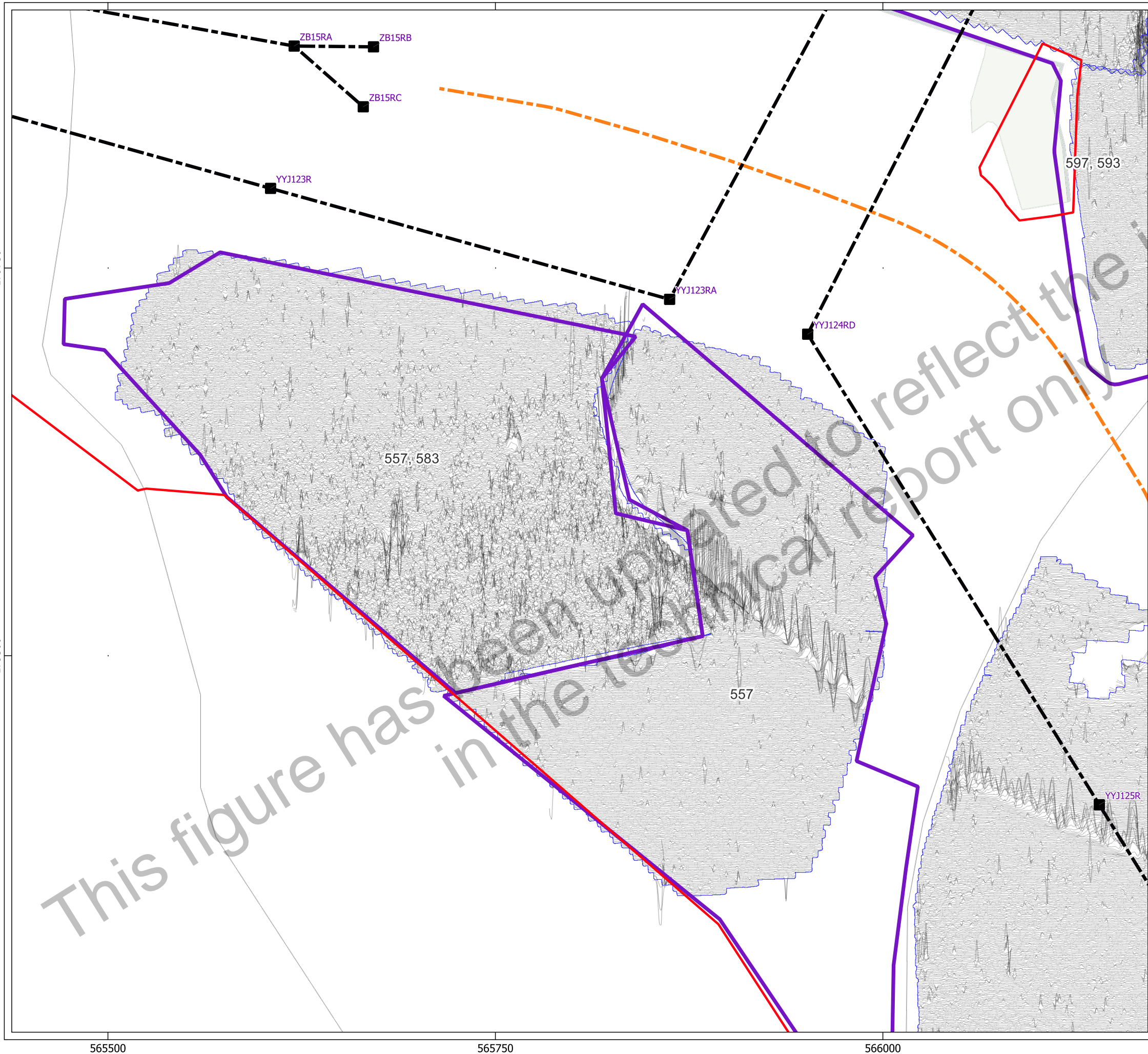









- Key**
- ▭ Order Limits
 - ▭ Geophysical Survey Area
 - ▭ Survey Extent
 - - - Proposed Overhead Line Alignment
 - Proposed Pylon Location
 - - - Proposed Underground Cable Alignment

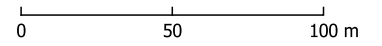


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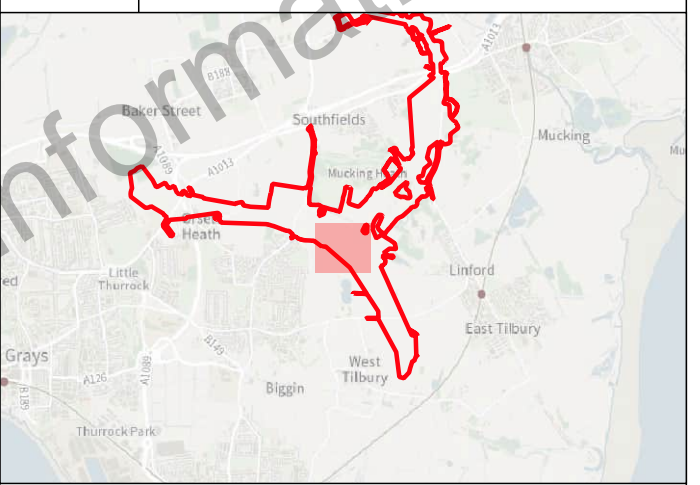
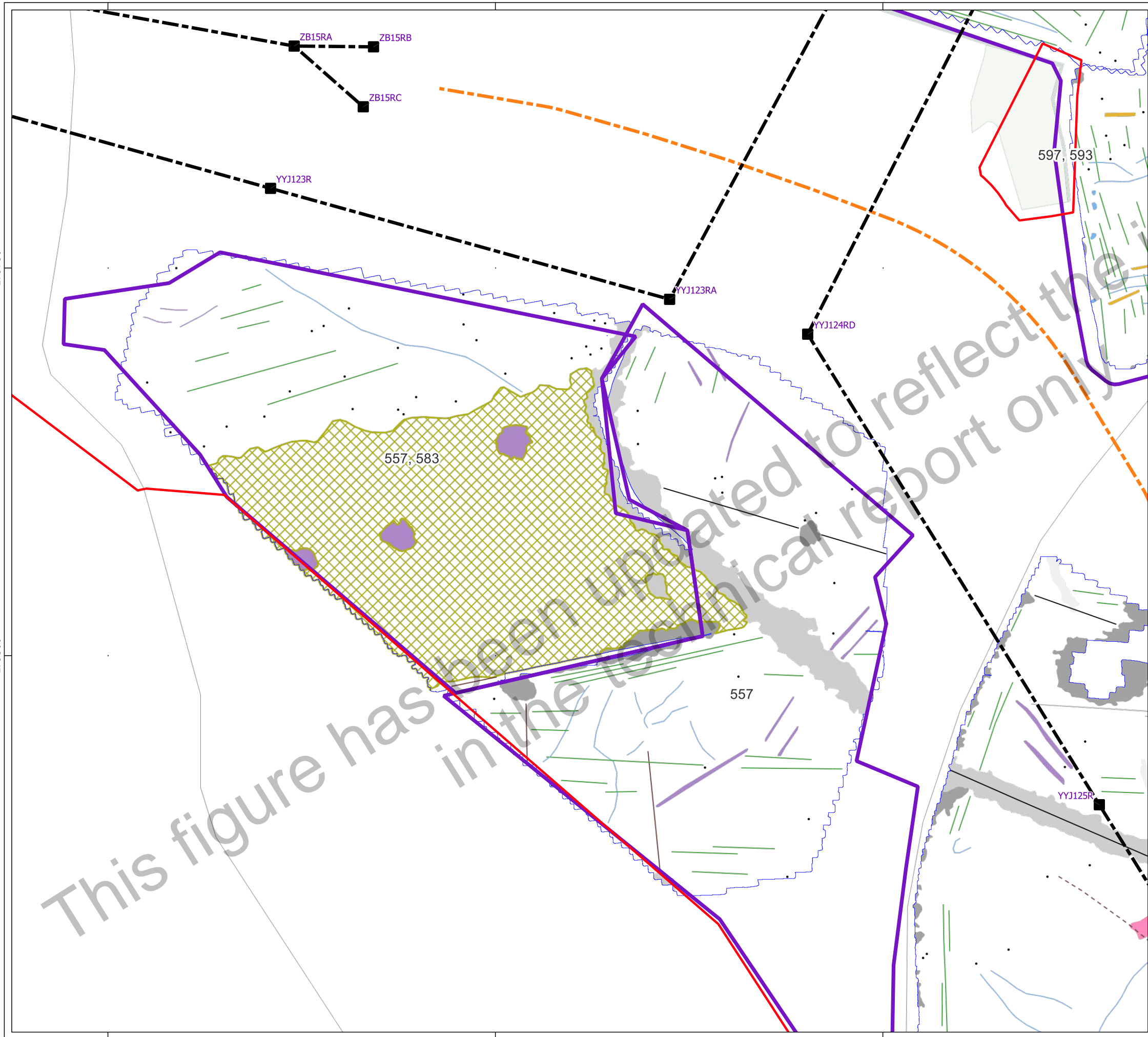
- Key**
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 -  Geophysical Survey Area
 -  Survey Extent
 -  Proposed Overhead Line Alignment
 -  Proposed Pylon Location
 -  Proposed Underground Cable Alignment
 -  XY Trace (25nT/cm)



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Key

- Order Limits
- Geophysical Survey Area
- Survey Extent
- Proposed Overhead Line Alignment
- Proposed Pylon Location
- Proposed Underground Cable Alignment

Geophys Interpretation

- Ferrous Objects
- Agriculture
- Data Artefact
- Field Boundary
- Possible Field Boundary
- Natural
- Service
- Uncertain
- Magnetic Disturbance (Above Ground)
- Magnetic Disturbance (Below Ground)
- Natural
- Overhead Cable
- Quarry
- Uncertain
- Trial Trench
- Greenwaste

0 50 100 m

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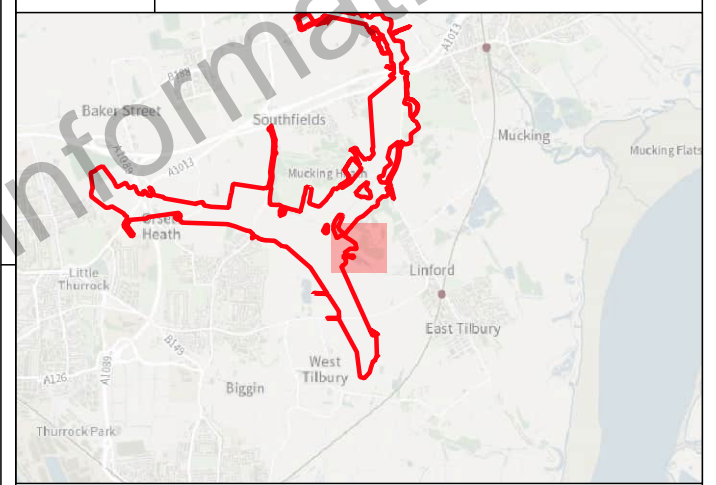
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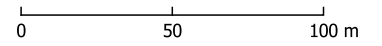
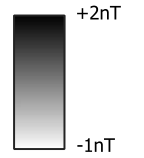
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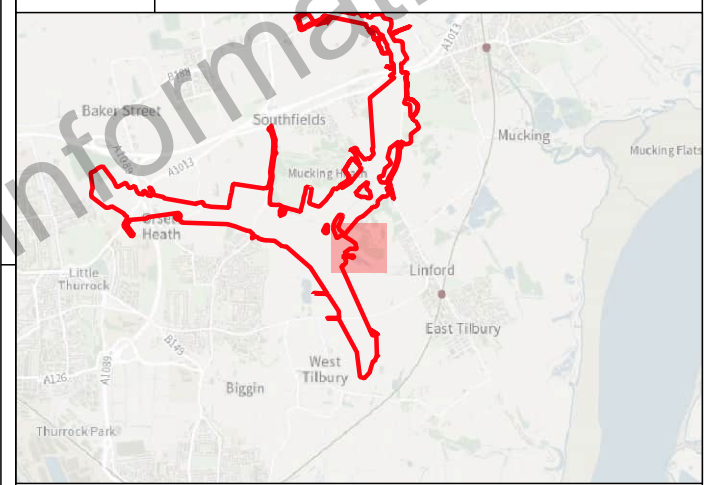
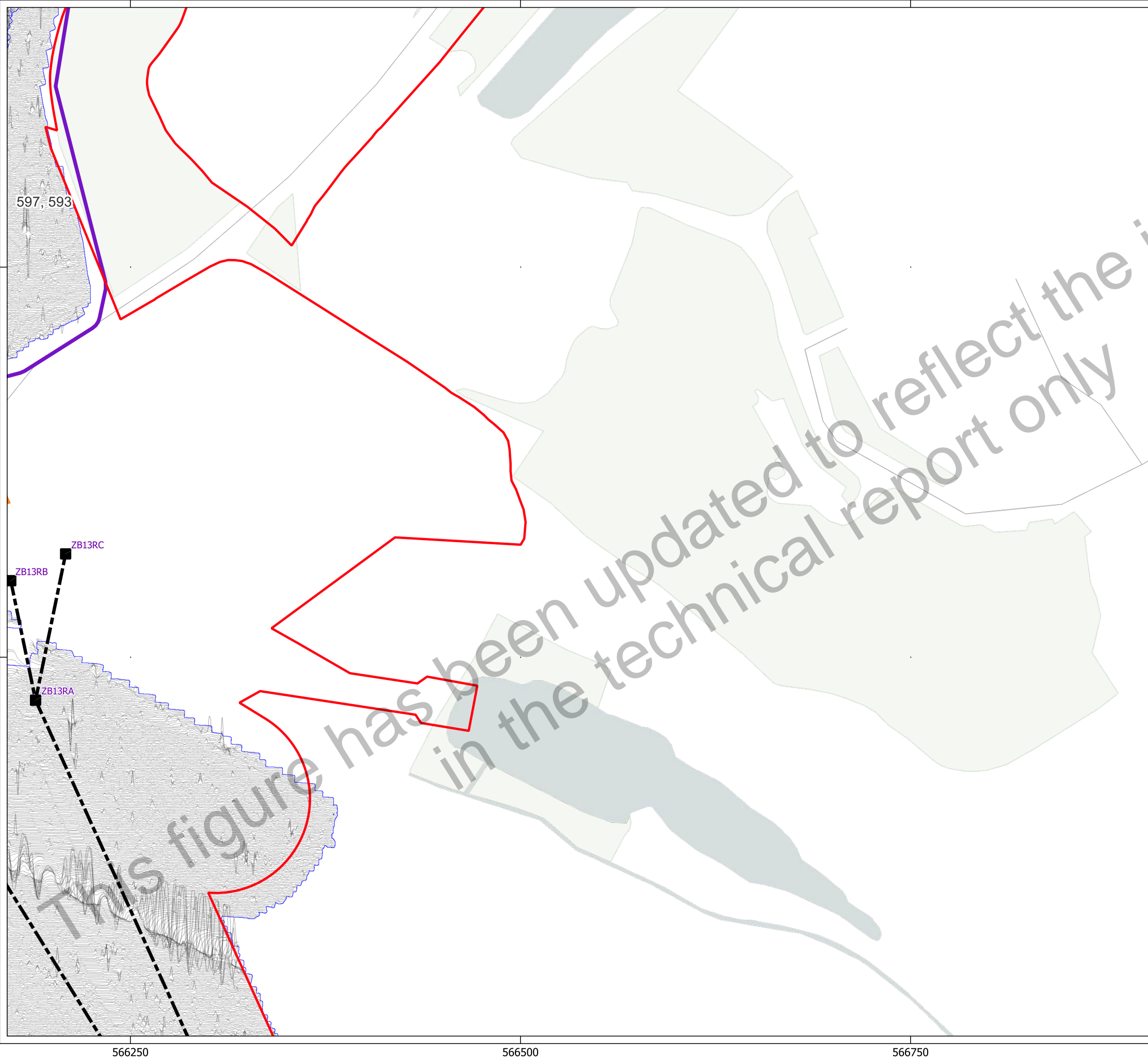
Key

- Order Limits
- Geophysical Survey Area
- Survey Extent
- Proposed Overhead Line Alignment
- Proposed Pylon Location
- Proposed Underground Cable Alignment

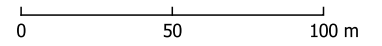


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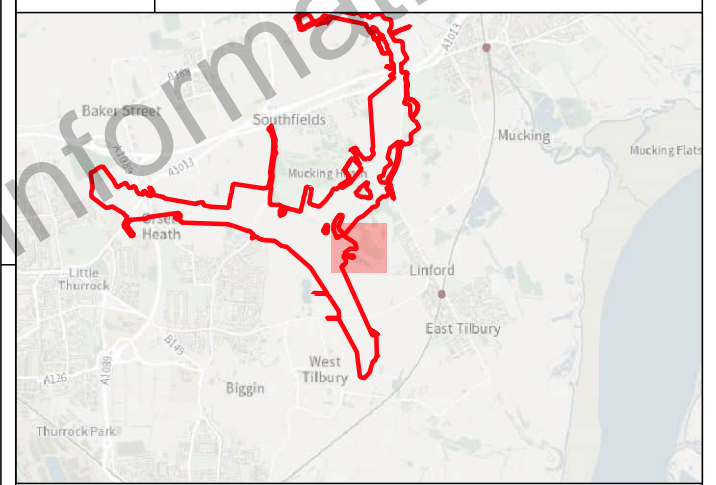
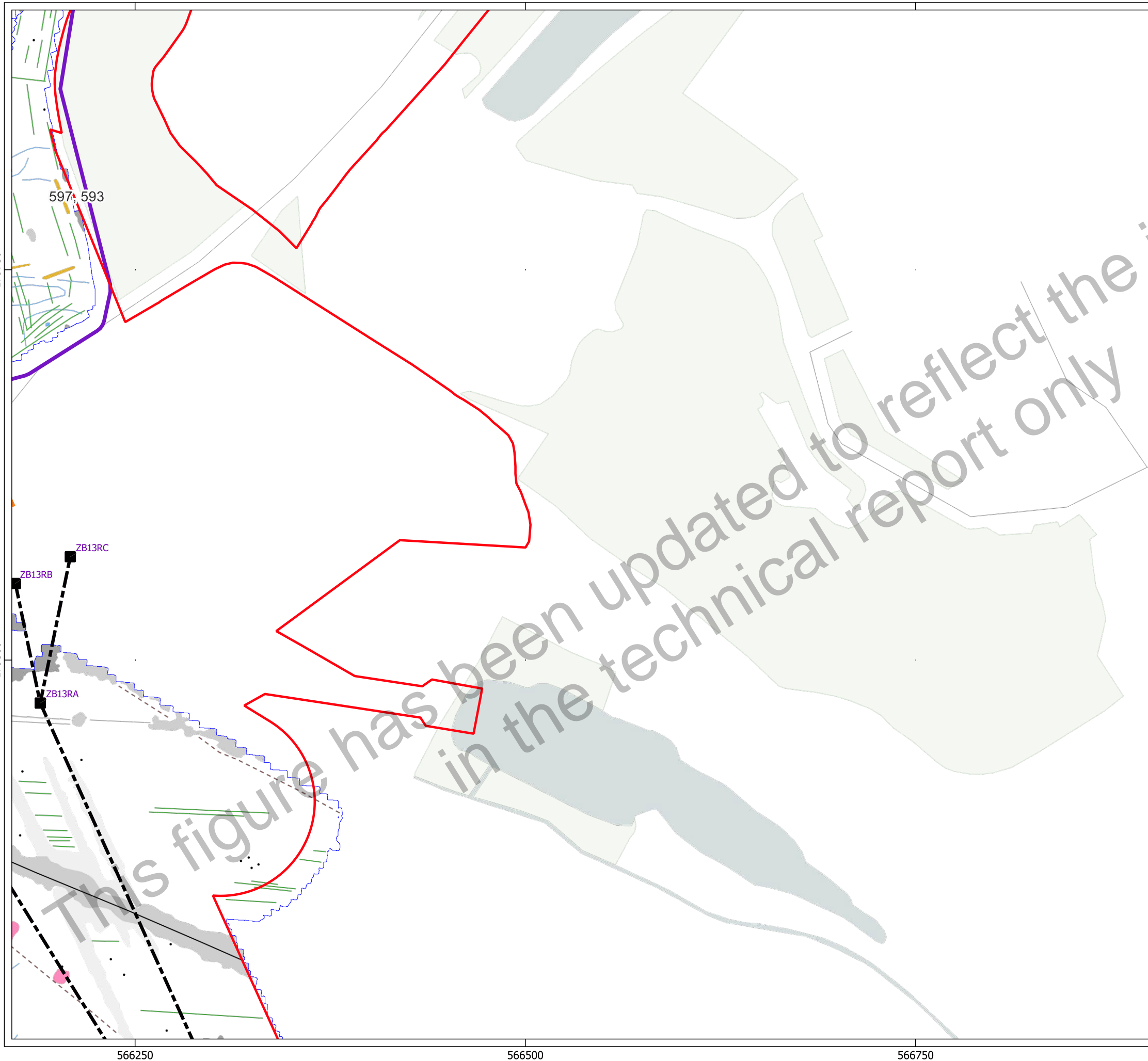


- Key**
- Order Limits
 - Geophysical Survey Area
 - Survey Extent
 - Proposed Overhead Line Alignment
 - Proposed Pylon Location
 - Proposed Underground Cable Alignment
 - XY Trace (25nT/cm)



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Key

- Order Limits
- Geophysical Survey Area
- Survey Extent
- Proposed Overhead Line Alignment
- Proposed Pylon Location
- Proposed Underground Cable Alignment

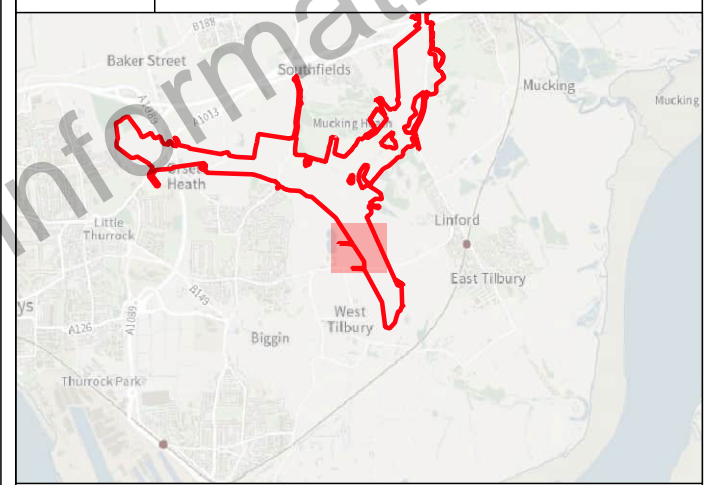
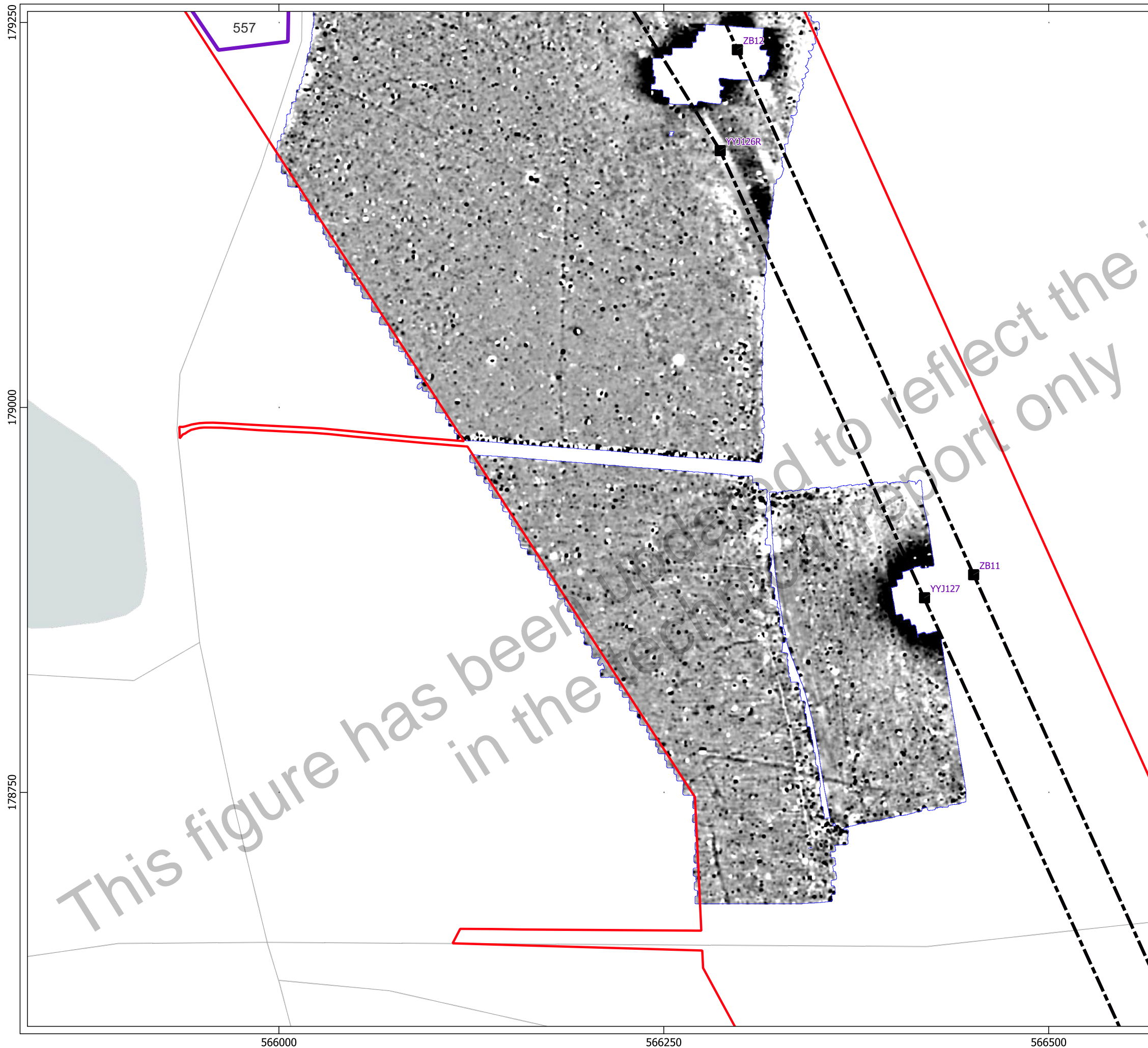
Geophys Interpretation

- Ferrous Objects
- Agriculture
- Data Artefact
- Possible Field Boundary
- Natural
- Service
- Magnetic Disturbance (Above Ground)
- Magnetic Disturbance (Below Ground)
- Natural
- Overhead Cable
- Quarry
- Trial Trench

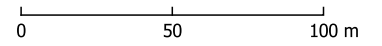
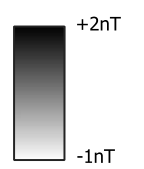
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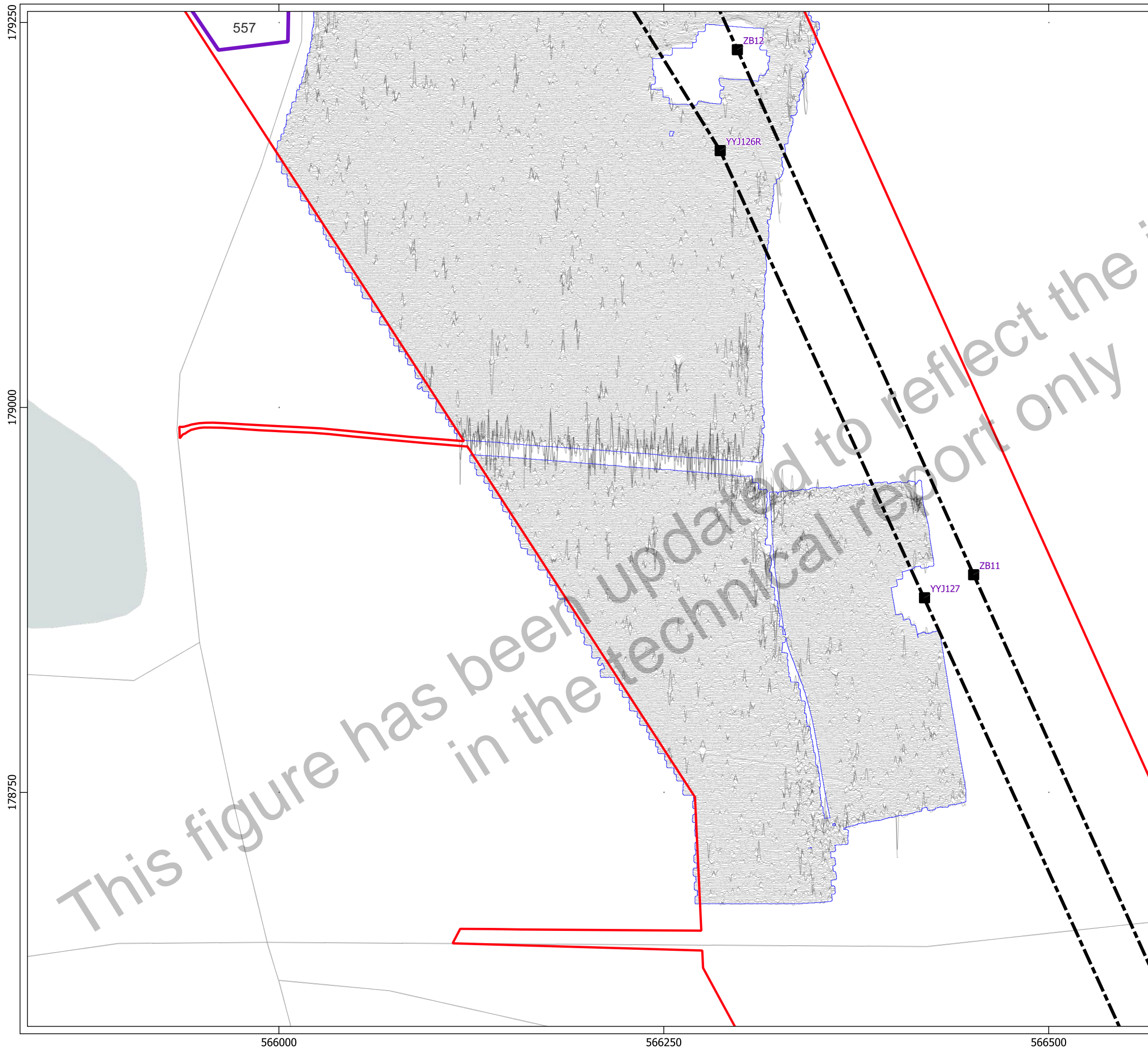


- Key**
- Order Limits
 - Geophysical Survey Area
 - Survey Extent
 - Proposed Overhead Line Alignment
 - Proposed Pylon Location



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557

ZB12

YYJ126R

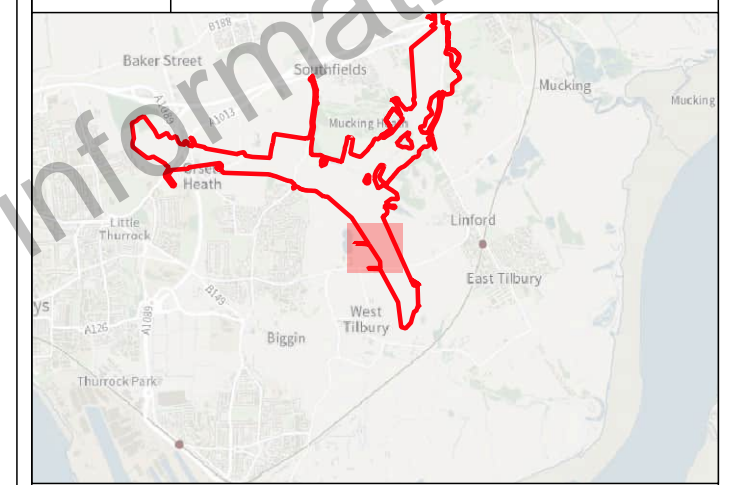
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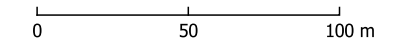
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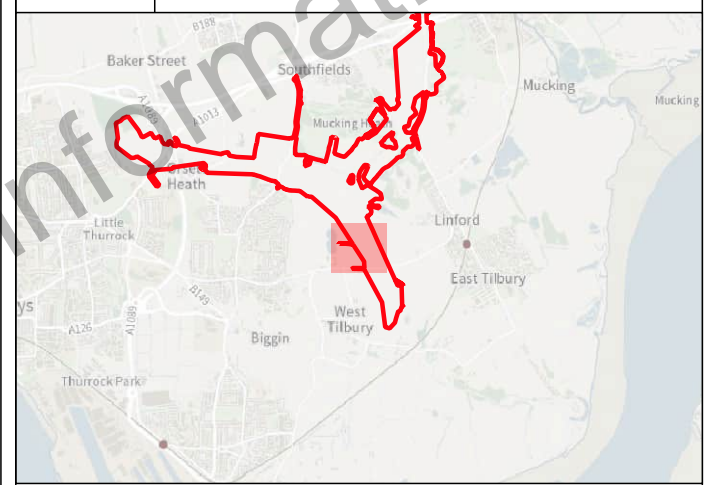
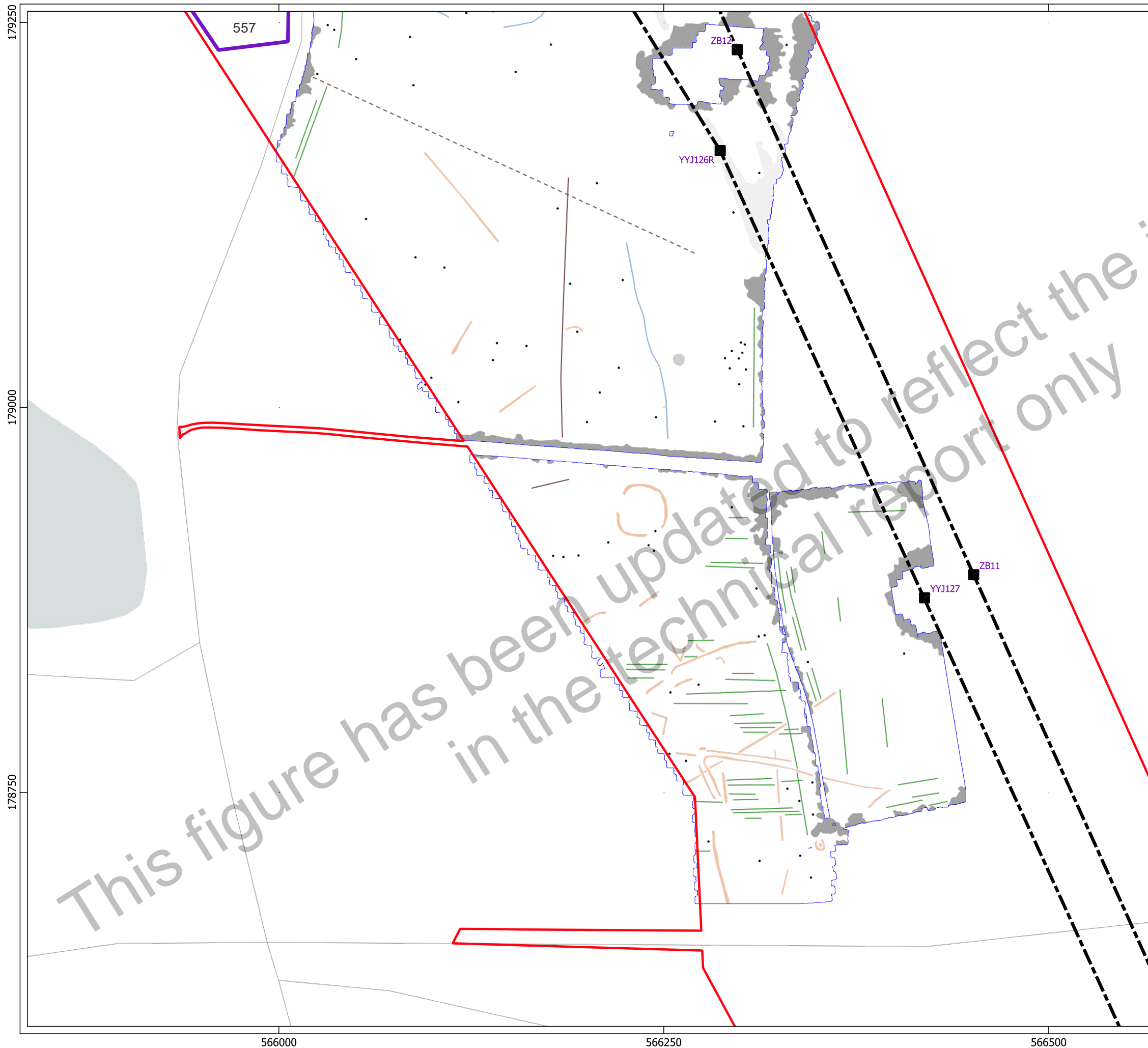


- Key**
- Order Limits
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 - Survey Extent
 - Proposed Overhead Line Alignment
 - Proposed Pylon Location
 - XY Trace (25nT/cm)



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- Survey Extent
- Proposed Overhead Line Alignment
- Proposed Pylon Location

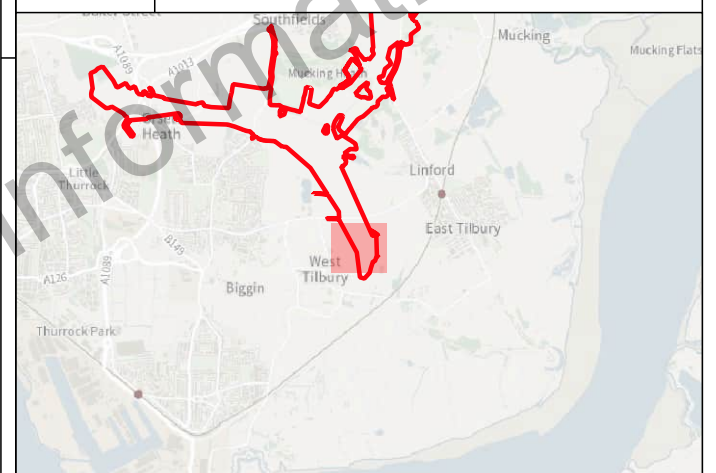
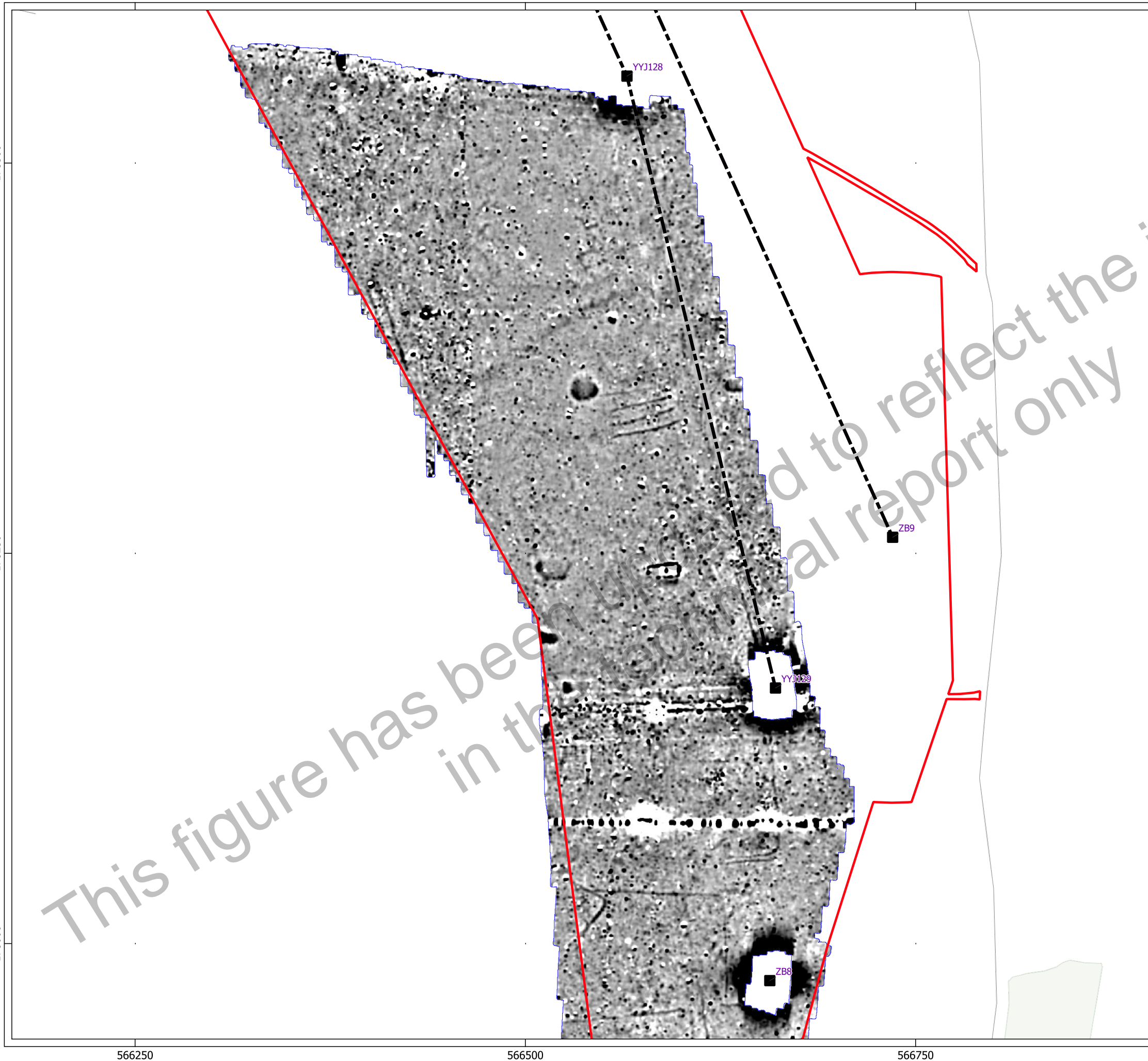
Geophys Interpretation

- Ferrous Objects
- Agriculture
- Field Boundary
- Possible Field Boundary
- Natural
- Magnetic Disturbance (Above Ground)
- Magnetic Disturbance (Below Ground)
- Overhead Cable
- Possible Archaeology

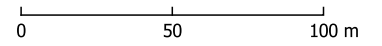
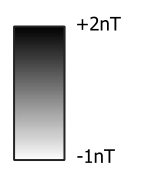
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- Key**
- ▭ Order Limits
 - ▭ Survey Extent
 - - - Proposed Overhead Line Alignment
 - Proposed Pylon Location



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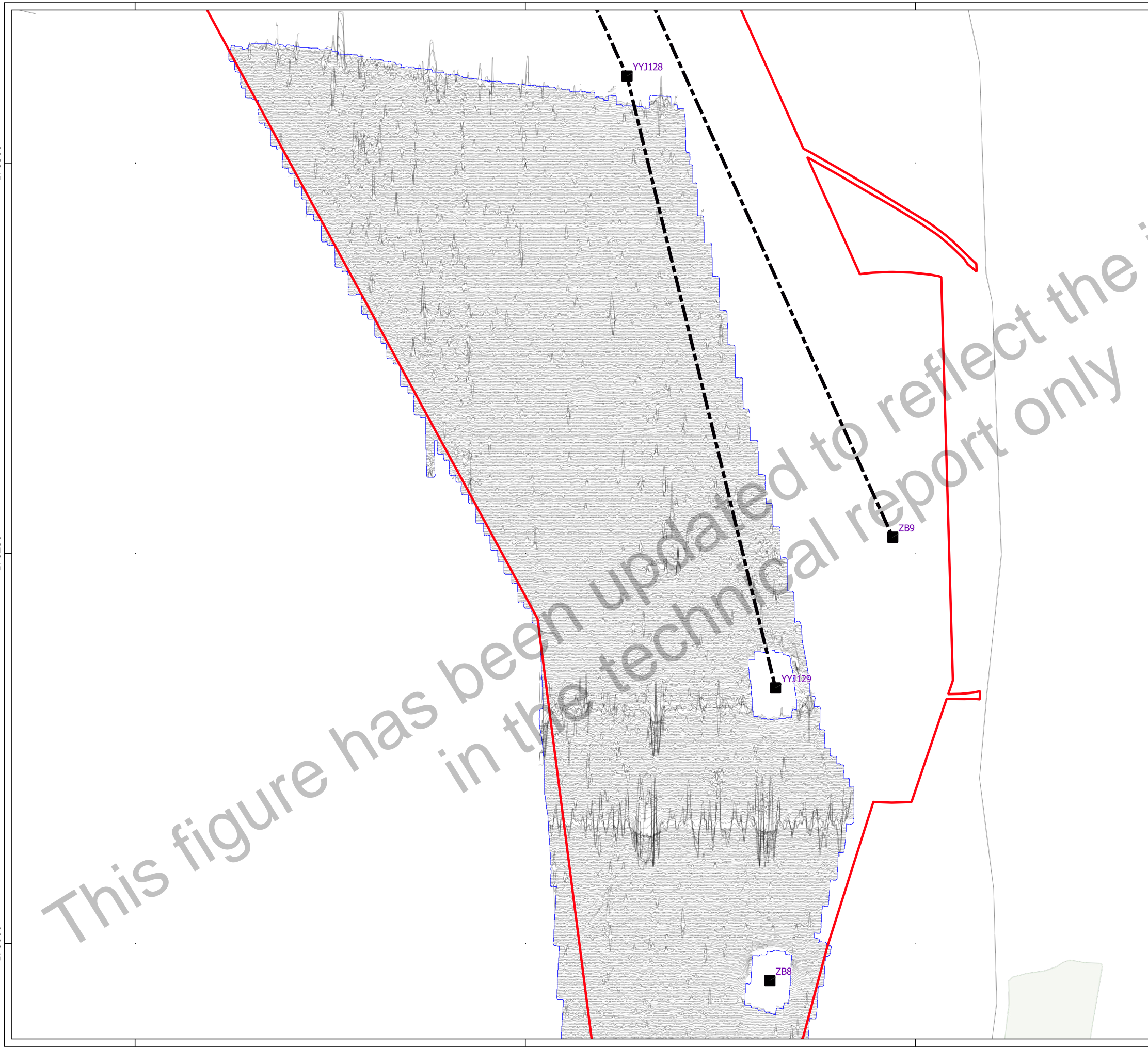
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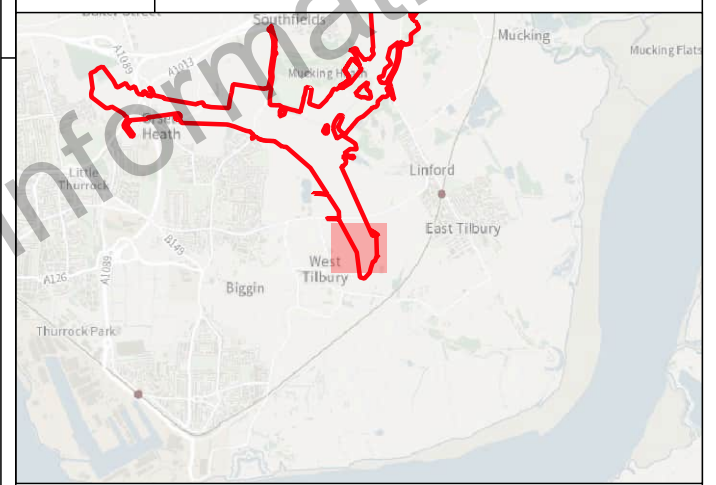
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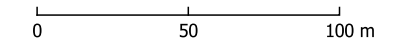
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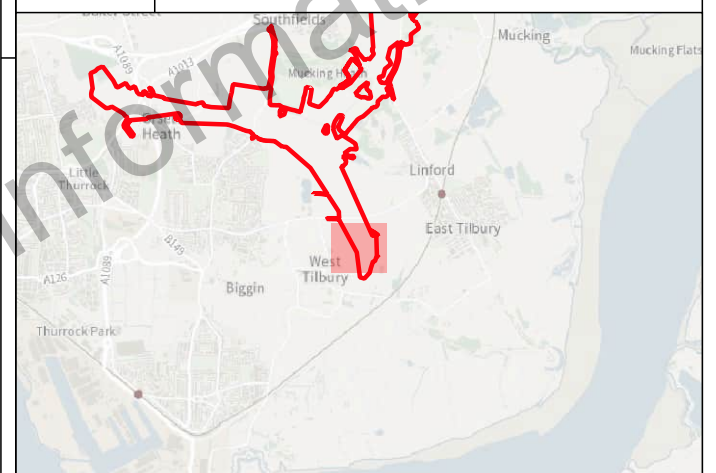
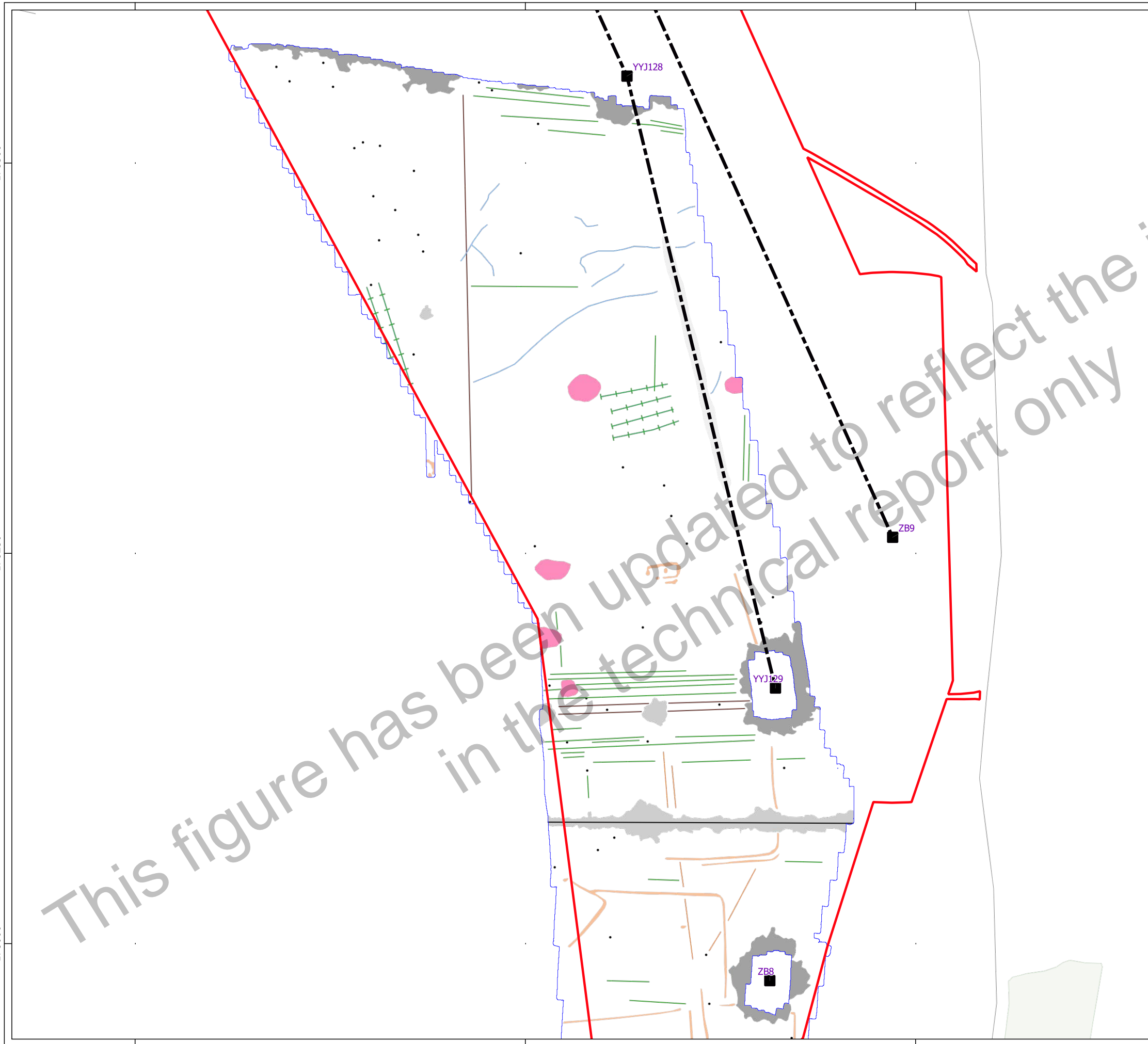


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 - Proposed Overhead Line Alignment
 - Proposed Pylon Location
 - XY Trace (25nT/cm)

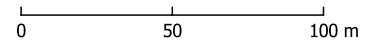


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- Key**
- Order Limits
 - Survey Extent
 - Proposed Overhead Line Alignment
 - Proposed Pylon Location
- Geophys Interpretation**
- Ferrous Objects
 - Possible Archaeology
 - Agriculture
 - Field Boundary
 - Field Drain
 - Natural
 - Service
 - Magnetic Disturbance (Above Ground)
 - Magnetic Disturbance (Below Ground)
 - Overhead Cable
 - Possible Archaeology
 - Quarry



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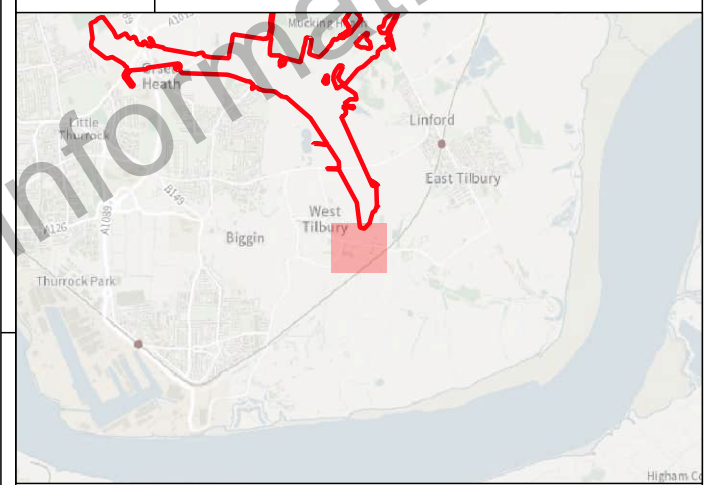
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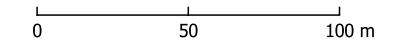
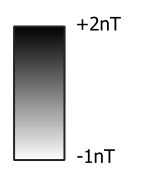
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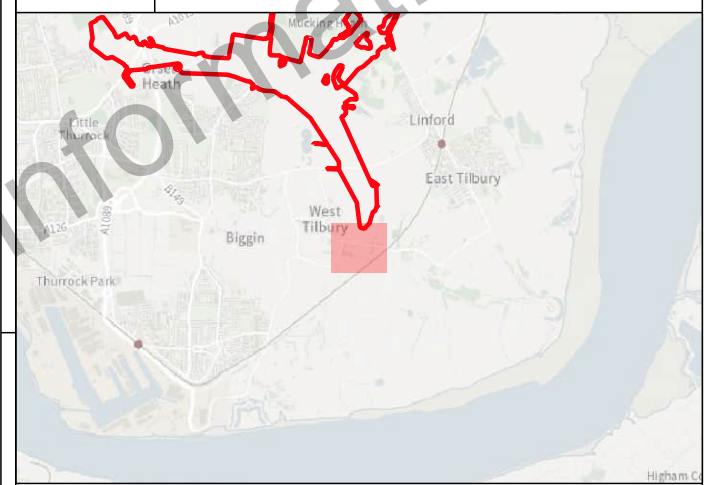
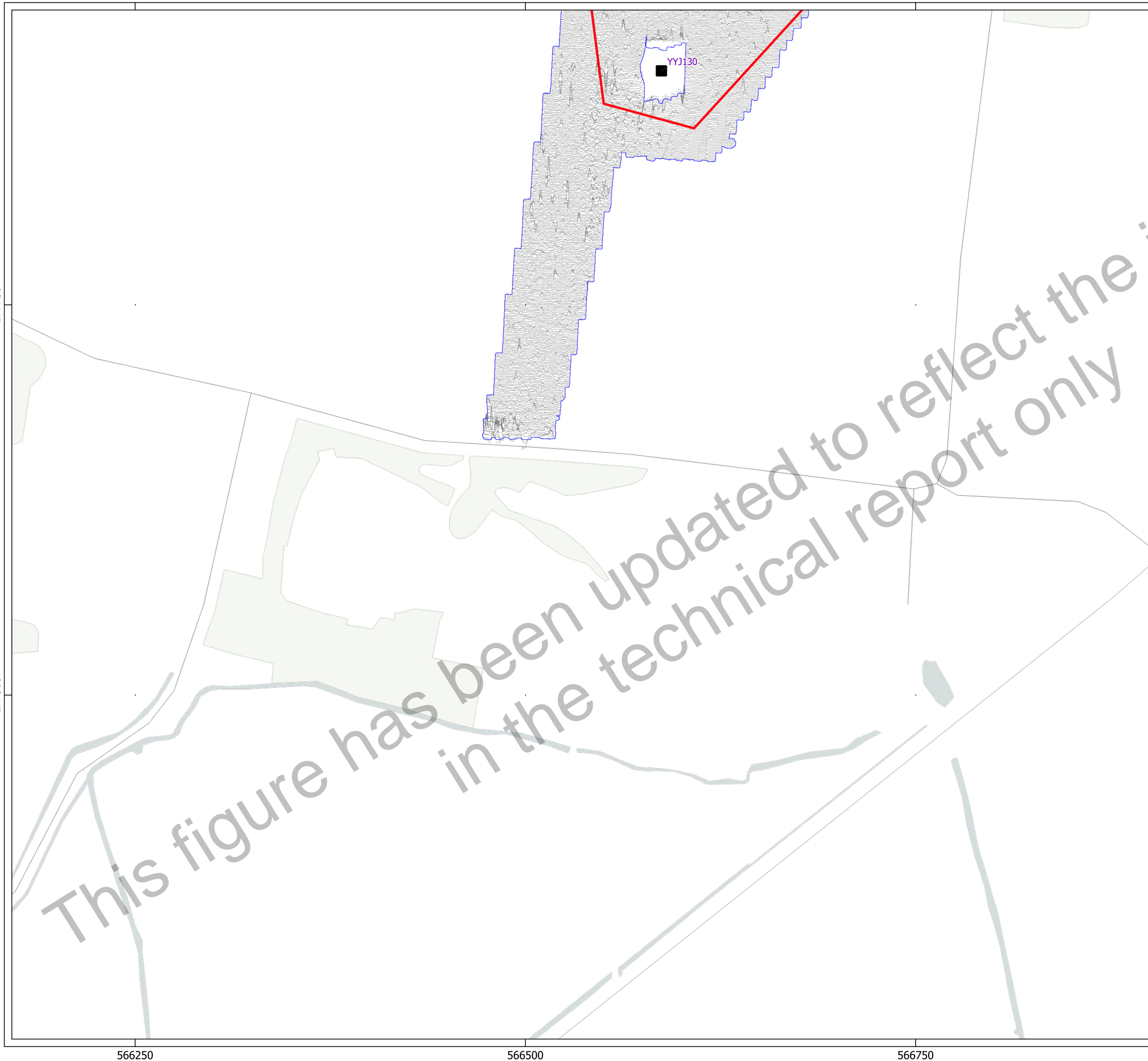


- Key**
- Order Limits
 - Survey Extent
 - Proposed Pylon Location

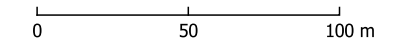


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- Key**
- Order Limits
 - Survey Extent
 - Proposed Pylon Location
 - XY Trace (25nT/cm)



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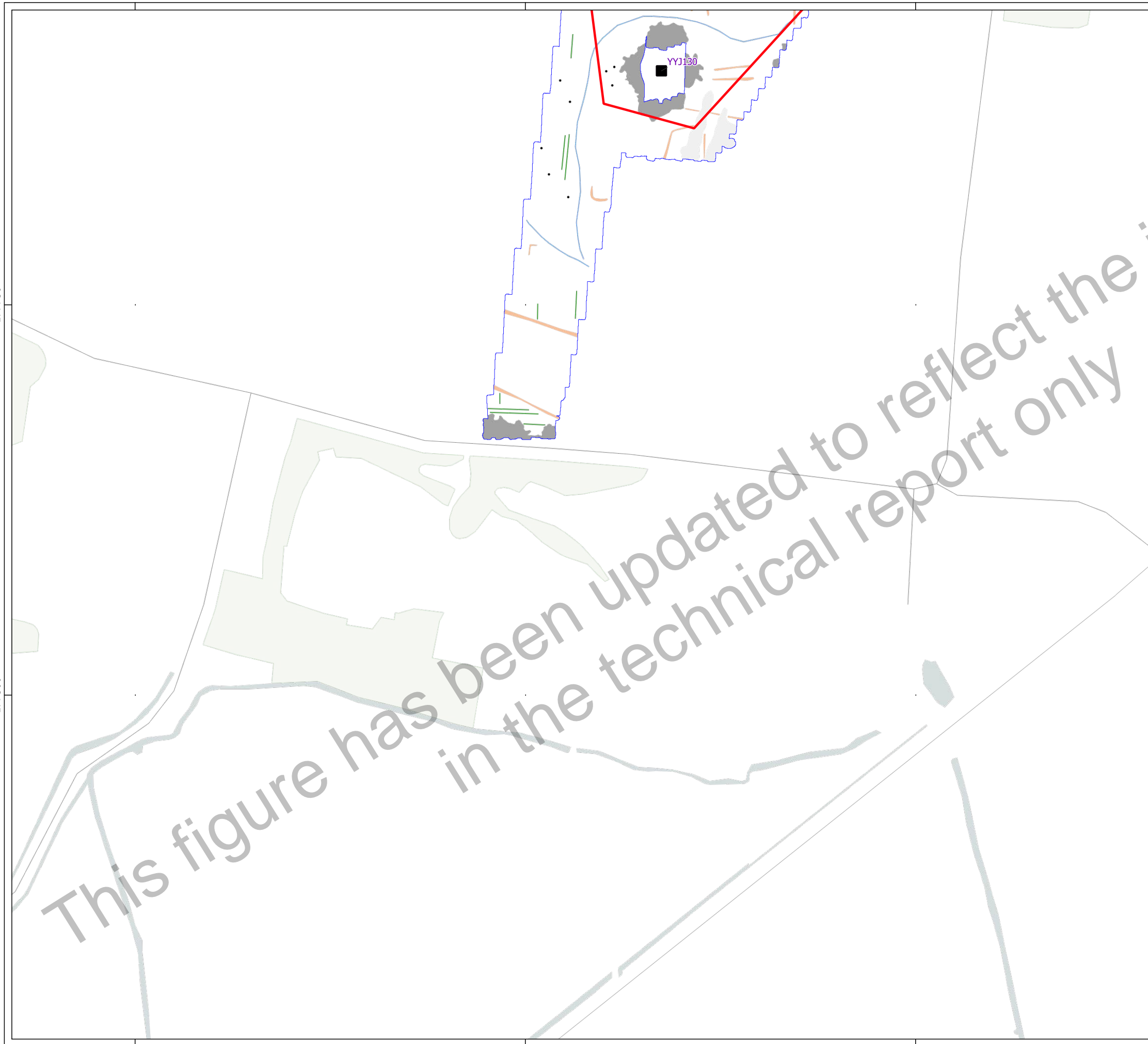
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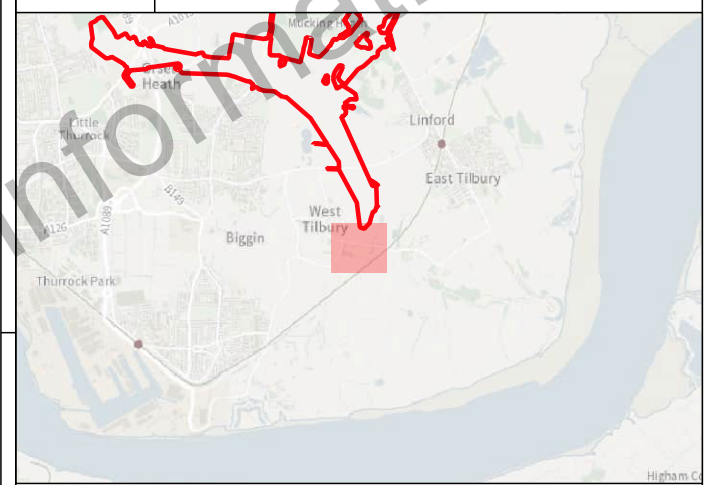
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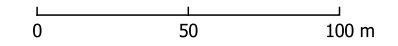
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- Key**
- Order Limits
 - Survey Extent
 - Proposed Pylon Location
- Geophys Interpretation**
- Ferrous Objects
 - Agriculture
 - Natural
 - Magnetic Disturbance (Above Ground)
 - Overhead Cable
 - Possible Archaeology



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7. APPENDICES

APPENDIX 1 MAGNETOMETER SURVEY

Magnetic susceptibility and soil magnetism

Iron makes up about 6% of the earth's crust and is mostly present in soils and rocks as minerals such as maghaemite and haematite. These minerals have a weak, measurable magnetic property termed magnetic susceptibility. Human activities can redistribute these minerals and change (enhance) others into more magnetic forms so that by measuring the magnetic susceptibility of the topsoil, areas where human occupation or settlement has occurred can be identified by virtue of the attendant increase (enhancement) in magnetic susceptibility. If the enhanced material subsequently comes to fill features, such as ditches or pits, localised isolated and linear magnetic anomalies can result whose presence can be detected by a magnetometer (fluxgate gradiometer).

In general, it is the contrast between the magnetic susceptibility of deposits filling cut features, such as ditches or pits, and the magnetic susceptibility of the topsoil, subsoil, and rock, into which these features have been cut, which causes the most recognisable responses. This is primarily because there is a tendency for magnetic ferrous compounds to become concentrated in the topsoil, thereby making it more magnetic than the subsoil or the bedrock. Linear features cut into the subsoil or geology, such as ditches, that have been silted up or have been backfilled with topsoil will therefore usually produce a positive magnetic response relative to the background soil levels. Discrete feature, such as pits, can also be detected.

The magnetic susceptibility of a soil can also be enhanced by the application of heat. This effect can lead to the detection of features such as hearths, kilns, or areas of burning.

Types of magnetic anomaly

In most instances anomalies are termed 'positive'. This means that they have a positive magnetic

value relative to the magnetic background on any given site. However, some features can manifest themselves as 'negative' anomalies that, conversely, means that the response is negative relative to the mean magnetic background.

Where it is not possible to give a probable cause of an observed anomaly a '?' is appended.

It should be noted that anomalies interpreted as modern in origin might be caused by features that are present in the topsoil or upper layers of the subsoil. Removal of soil to an archaeological or natural layer can therefore remove the feature causing the anomaly.

The types of response mentioned above can be divided into five main categories that are used in the graphical interpretation of the magnetic data:

Isolated dipolar anomalies (iron spikes)

These responses are typically caused by ferrous material either on the surface or in the topsoil. They cause a rapid variation in the magnetic response giving a characteristic 'spiky' trace. Although ferrous archaeological artefacts could produce this type of response, unless there is supporting evidence for an archaeological interpretation, little emphasis is normally given to such anomalies, as modern ferrous objects are common on rural sites, often being introduced into the topsoil during manuring.

Areas of magnetic disturbance

These responses can have several causes often being associated with burnt material, such as slag waste or brick rubble or other strongly magnetised/fired material. Ferrous structures such as pylons, mesh or barbed wire and buried pipes can also cause the same disturbed response. A modern origin is usually assumed unless there is other supporting information.

Lightning-induced remnant magnetisation (LIRM)

LIRM anomalies are thought to be caused in the near surface soil horizons by the flow of an electrical current associated with lightning strikes. These observed anomalies have a strong bipolar signal which decreases with distance from the

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spike point and often appear as linear or radial in shape.

Linear trend

This is usually a weak or broad linear anomaly of unknown cause or date. These anomalies are often caused by agricultural activity, either ploughing or land drains being a common cause.

Areas of magnetic enhancement/positive isolated anomalies

Areas of enhanced response are characterised by a general increase in the magnetic background over a localised area whilst discrete anomalies are manifest by an increased response (sometimes only visible on an XY trace plot) on two or three successive traverses. In neither instance is there the intense dipolar response characteristic exhibited by an area of magnetic disturbance or of an 'iron spike' anomaly (see above). These anomalies can be caused by infilled discrete archaeological features such as pits or post-holes or by kilns. They can also be caused by pedological variations or by natural infilled features on certain geologies. Ferrous material in the subsoil can also give a similar response. It can often therefore be very difficult to establish an anthropogenic origin without intrusive investigation or other supporting information.

Linear and curvilinear anomalies

Such anomalies have a variety of origins. They may be caused by agricultural practice (recent ploughing trends, earlier ridge and furrow regimes or land drains), natural geomorphological features such as palaeochannels or by infilled archaeological ditches.

APPENDIX 2 SURVEY LOCATION INFORMATION

The magnetometer data was collected and is geo-located based on survey grade Real Time Kinetic (RTK) differential Global Positioning System (dGPS) used on both hand-carried and towed systems. The accuracy of this dGPS equipment is better than 0.01m. The GPS systems output in NMEA mode in real time, with a visual guide of survey tracks and any survey area boundaries displayed

on a tablet device in view of the survey operator to ensure full coverage. Any survey area boundaries are uploaded as a string of co-ordinates or shapefile to the tablet prior to the commencement of survey.

APPENDIX 3 GEOPHYSICAL SURVEY ARCHIVE

The geophysical archive comprises an archive disk containing the raw data in XYZ format, a raster image of each greyscale plot with associate world file, and a PDF of the report.

The project will be archived in-house in accordance with recent good practice guidelines (http://guides.archaeologydataservice.ac.uk/g2gp/Geophysics_3). The data will be stored in an indexed archive and migrated to new formats when necessary.

APPENDIX 4 DATA PROCESSING

The gradiometer data has been presented in this report in processed greyscale and minimally processed XY trace plot format.

Data collected using RTK GPS-based methods cannot be produced without minimal processing of the data. The minimally processed data has been interpolated to project the data onto a regular grid and de-striped to correct for slight variations in instrument calibration drift, heading errors and any other artificial data.

The XY data has been clipped to remove extreme values and to improve the interpretability of the data.

APPENDIX 5 OASIS ARCHIVE

Project Name: Magnetometry Survey at Norwich to Tilbury

Activity type: Magnetometry Survey

Sitecode(s): EAGR23

Project Identifier(s): P23-315

Planning Id: [no data]

Reason for Investigation: Planning: Pre application

Organisation Responsible for work: Headland Archaeology (UK) Ltd

Project Dates: 11-Aug-2025–15-Aug-2025

HER: Solihull HER 16 Apr 2026

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HER Identifiers: Norfolk Consultation Number: CNF49718; Norfolk Event Number: ENF156675; Suffolk Parish Codes: PAL 080, BUR 063, CRP032, BRF 195, RAY 061, WMM 025, HSM 019, SSM 066, HGM 039, MLS 043, CRP 033, RGL 067, SPT 115, SSM 068

Project Methodology: The survey was undertaken using four Bartington Grad601 sensors mounted at 1 metre (m) intervals onto a rigid carrying frame. The system was programmed to take readings at a frequency of 10 Hertz (Hz) on roaming traverses (swaths) 1m apart. These readings were stored on an external weatherproof laptop and later downloaded for processing and interpretation. The system was linked to a Trimble R12 Real Time Kinetic (RTK) differential Global Positioning System (dGPS) outputting in NMEA mode to ensure a high positional accuracy for each data point. MLGrad601 and MultiGrad601 (Geomar Software Inc.) software was used to collect and export the data. Anomaly GeoSurvey v1.12.3 (Lichenstone Geoscience) and QGIS v.3.34.6 software was used to process and present the data respectively.

Project Results: Survey was successfully undertaken across all Sections (A-H) of the project. The survey was limited to Priority Areas where a number of areas of archaeological activity have been identified by the survey, with many correlating to and expanding known heritage assets. Elsewhere within the Priority Areas, a plethora of anomalies indicative of modern ferrous (services, extraction pits, former ponds, airfield, greenwaste), agricultural (former field boundaries, ploughing trends, field drains), and natural origin are recorded. The magnitude and resolution of the anomalies identified throughout the scheme indicates that there was likely sufficient magnetic contrast for the detection of sub-surface archaeological features, if present, notwithstanding the limitations of magnetometer survey to identify certain types, sizes and periods of archaeological features.

The results of the survey are therefore assessed to provide a good indication of the archaeological potential of the Priority Areas. Based on the results of the survey the archaeological potential of the Priority Areas ranges from locally high where probable archaeological remains are identified, and moderate to low elsewhere. Keywords: [no data]

Archive: [no data]

Reports in OASIS: Harrison, S. (2025). Norwich to Tilbury. Cleckheaton
Headland Archaeology (UK) Ltd. EAGR23

National Grid plc
National Grid House,
Warwick Technology Park,
Gallows Hill, Warwick.
CV34 6DA United Kingdom

Registered in England and Wales
No. 4031152
nationalgrid.com