YG-DCO-038-5.4.9(B) (Part 2 of 2)

# Yorkshire Green Energy Enablement (GREEN) Project

**Volume 5**

**Document 5.4.9(B) ES Chapter 9 Hydrology – Figures Part 2 of 2**

**Final Issue B**

**July 2023**

**Planning Inspectorate Reference: EN020024**

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

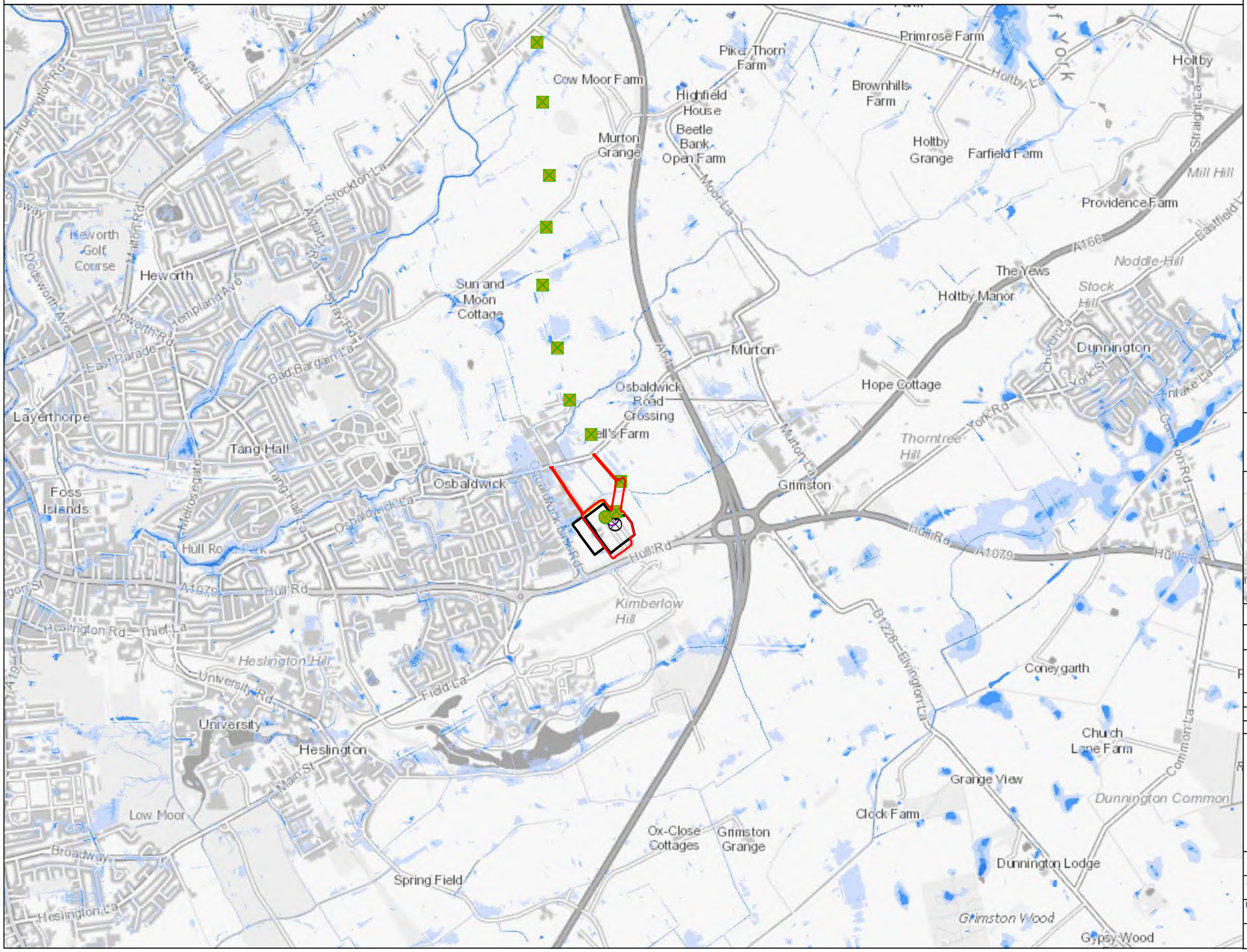
nationalgrid

# Contents

## Version history

| Date | Version | Status | Description/changes |
|---|---|---|---|
| 01/11/2022 | A | Final | First Issue |
| 28/07/2023 | B | Final | Second Issue |

National Grid (Yorkshire Green Energy Enablement Project) Order
5.4.9, ES Chapter 9 Hydrology Figures
Figure 9.7(B) Risk of Flooding from Surface Water: Section A




## Legend

- Order Limits

**Watercourse crossings**

- Existing crossing
- New bridge crossing
- New culvert crossing
- Section Breaks (A to F)
- Existing Lattice Pylon - Not Affected
- Existing Gantry - Not Affected
- Existing Gantry - To be Dismantled
- Indicative New Gantry

**Project infrastructure**

- Existing substation
- Proposed substation area
- Indicative construction compounds
- Indicative cable sealing end compounds
- Indicative stringing areas
- Indicative working areas
- Indicative visibility splays
- Indicative access swathe

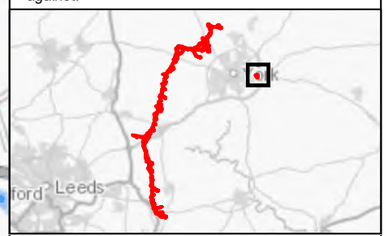
**Risk of Flooding from Surface Water extents**

- High (3.3% AEP)
- Medium (1% AEP)
- Low (0.1% AEP)

AEP = Annual Exceedance Probability
Where no flood risk is mapped the RoFSW is categorised as 'Very Low'.

Notes

This drawing is scaled at paper size A3, therefore any prints taken at smaller sizes will affect accuracy of the measurement units and should not be scaled against.




Coordinate System: British National Grid
Sheet X Centroid Coordinate: 464,313.68 Sheet Y Centroid Coordinate: 451,918.16

0 250 500 1,000
Meters



| Issue | Date | Remarks | Drawn | Checked | Approved |
|---|---|---|---|---|---|
| B | 28/07/23 | For Deadline Six | BERNB | DIMMR | CHADC |
| A | 1 Nov 2022 | For DCO Submission | COLLJ | DIMMR | CHADC |

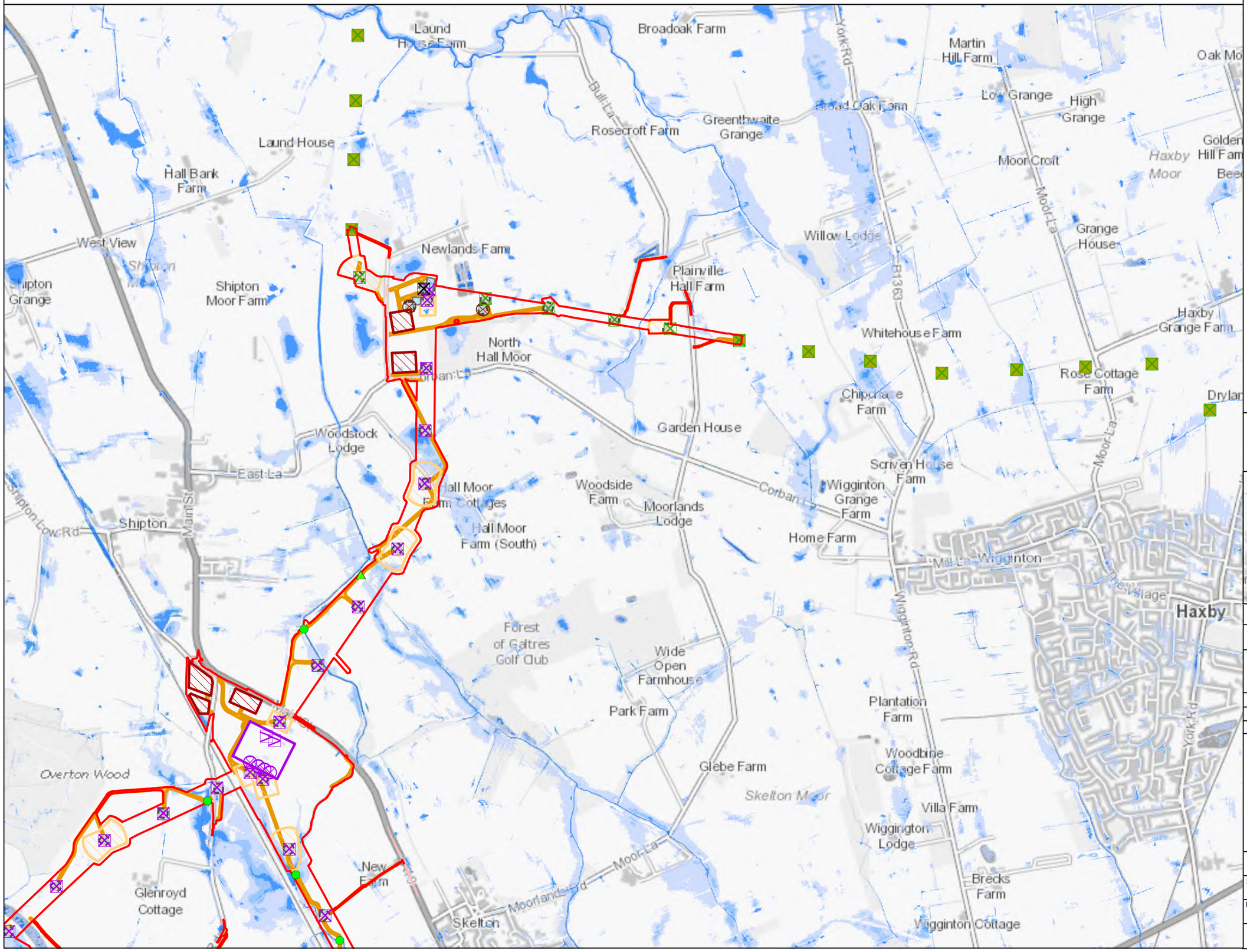
Title

5.4.9, ES CHAPTER 9
HYDROLOGY
FIGURE 9.7(B)
RISK OF FLOODING FROM
SURFACE WATER

nationalgrid

| Figure Number | Drawing Reference | | |
|---|---|---|---|
| FIGURE 9.7(B) | 806503-WOOD-0224 B | | |
| **Scale** | **Sheet Size** | **Sheet** | **Issue** |
| 1:20,000 | A3 | SHEET 1 OF 10 | B |

National Grid (Yorkshire Green Energy Enablement Project) Order
5.4.9, ES Chapter 9 Hydrology Figures
Figure 9.7(B) Risk of Flooding from Surface Water: Section B




## Legend

- Order Limits

**Watercourse crossings**

- Existing crossing
- New bridge crossing
- New culvert crossing
- Section Breaks (A to F)
- Existing Lattice Pylon - To be Modified
- Existing Lattice Pylon - Not Affected
- Existing Lattice Pylon - To be Dismantled
- Indicative New Lattice Pylon
- Indicative New Gantry
- Indicative New Full Line Tension Gantry
- Indicative Temporary Pylon or Mast

**Project infrastructure**

- Existing substation
- Proposed substation area
- Indicative construction compounds
- Indicative cable sealing end compounds
- Indicative stringing areas
- Indicative working areas
- Indicative visibility splays
- Indicative access swathe

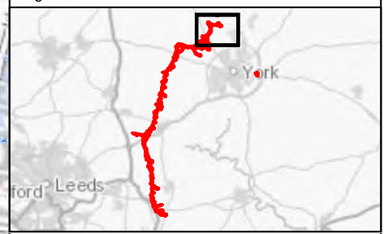
**Risk of Flooding from Surface Water extents**

- High (3.3% AEP)
- Medium (1% AEP)
- Low (0.1% AEP)

AEP = Annual Exceedance Probability
Where no flood risk is mapped the RoFSW is categorised as 'Very Low'.

Notes

This drawing is scaled at paper size A3, therefore any prints taken at smaller sizes will affect accuracy of the measurement units and should not be scaled against.




Coordinate System: British National Grid
Sheet X Centroid Coordinate: 457,691.99 Sheet Y Centroid Coordinate: 458,895.64

0 250 500 1,000 Meters



| Issue | Date | Remarks | Drawn | Checked | Approved |
|---|---|---|---|---|---|
| B | 28/07/23 | For Deadline Six | BERNB | DIMMR | CHADC |
| A | 1 Nov 2022 | For DCO Submission | COLLJ | DIMMR | CHADC |

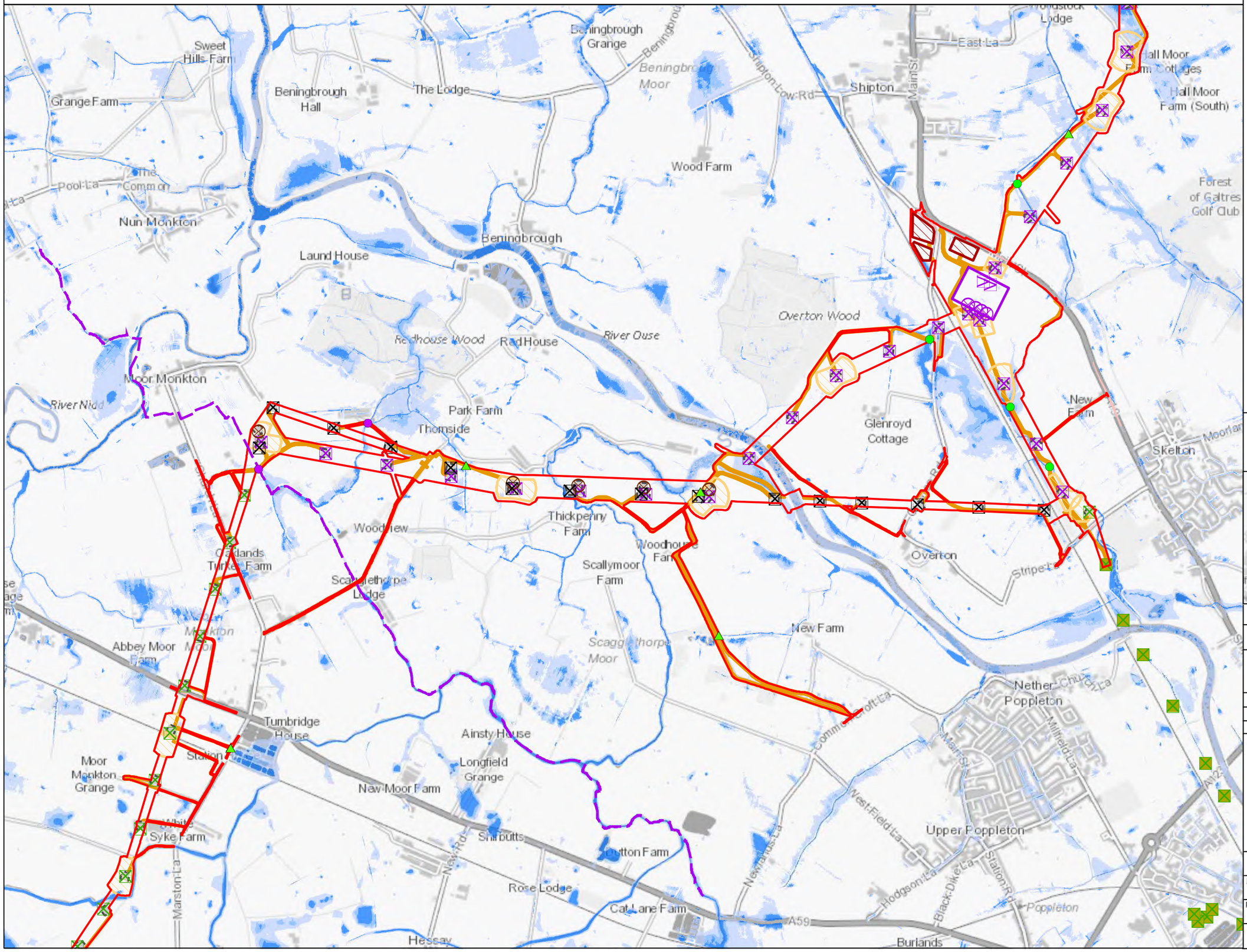
Title

5.4.9, ES CHAPTER 9
HYDROLOGY
FIGURE 9.7(B)
RISK OF FLOODING FROM
SURFACE WATER

nationalgrid

| Figure Number | Drawing Reference | Scale | Sheet Size | Sheet | Issue |
|---|---|---|---|---|---|
| FIGURE 9.7(B) | 806503-WOOD-0224 B | 1:20,000 | A3 | SHEET 2 OF 10 | B |

National Grid (Yorkshire Green Energy Enablement Project) Order
5.4.9, ES Chapter 9 Hydrology Figures
Figure 9.7(B) Risk of Flooding from Surface Water: Section B




## Legend

- Order Limits

**Watercourse crossings**

- Existing crossing
- New bridge crossing
- New culvert crossing
- Section Breaks (A to F)
- Existing Lattice Pylon - To be Modified
- Existing Lattice Pylon - Not Affected
- Existing Lattice Pylon - To be Dismantled
- Indicative New Lattice Pylon
- Indicative New Gantry
- Indicative New Full Line Tension Gantry
- Indicative Temporary Pylon or Mast

**Project infrastructure**

- Existing substation
- Proposed substation area
- Indicative construction compounds
- Indicative cable sealing end compounds
- Indicative stringing areas
- Indicative working areas
- Indicative visibility splays
- Indicative access swathe

**Risk of Flooding from Surface Water extents**

- High (3.3% AEP)
- Medium (1% AEP)
- Low (0.1% AEP)

AEP = Annual Exceedance Probability
Where no flood risk is mapped the RoFSW is categorised as 'Very Low'.

Notes

This drawing is scaled at paper size A3, therefore any prints taken at smaller sizes will affect accuracy of the measurement units and should not be scaled against.

Coordinate System: British National Grid
Sheet X Centroid Coordinate: 453,530.19 Sheet Y Centroid Coordinate: 456,270.93

0 275 550 1,100 Meters



| Issue | Date | Remarks | Drawn | Checked | Approved |
|---|---|---|---|---|---|
| B | 28/07/23 | For Deadline Six | BERNB | DIMMR | CHADC |
| A | 1 Nov 2022 | For DCO Submission | COLLJ | DIMMR | CHADC |

Title

5.4.9, ES CHAPTER 9
HYDROLOGY
FIGURE 9.7(B)
RISK OF FLOODING FROM
SURFACE WATER

nationalgrid

| Figure Number | | | |
|---|---|---|---|
| FIGURE 9.7(B) | | | |
| **Drawing Reference** | | | |
| 806503-WOOD-0224 B | | | |
| **Scale** | **Sheet Size** | **Sheet** | **Issue** |
| 1:22,000 | A3 | SHEET 3 OF 10 | B |

National Grid (Yorkshire Green Energy Enablement Project) Order
5.4.9, ES Chapter 9 Hydrology Figures
Figure 9.7(B) Risk of Flooding from Surface Water: Section C

## Legend

- Order Limits

**Watercourse crossings**

- Existing crossing
- New bridge crossing
- New culvert crossing
- Section Breaks (A to F)
- Existing Lattice Pylon - To be Modified

**Project infrastructure**

- Existing substation
- Proposed substation area
- Indicative construction compounds
- Indicative cable sealing end compounds
- Indicative stringing areas
- Indicative working areas
- Indicative visibility splays
- Indicative access swathe

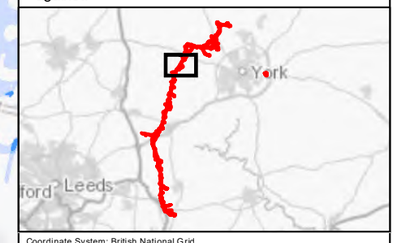
**Risk of Flooding from Surface Water extents**

- High (3.3% AEP)
- Medium (1% AEP)
- Low (0.1% AEP)

AEP = Annual Exceedance Probability
Where no flood risk is mapped the RoFSW is categorised as 'Very Low'.

Notes

This drawing is scaled at paper size A3, therefore any prints taken at smaller sizes will affect accuracy of the measurement units and should not be scaled against.




Coordinate System: British National Grid
Sheet X Centroid Coordinate: 450,259.87 Sheet Y Centroid Coordinate: 453,202.96

0 250 500 1,000 Meters



| Issue | Date | Remarks | Drawn | Checked | Approved |
|---|---|---|---|---|---|
| B | 28/07/23 | For Deadline Six | BERNB | DIMMR | CHADC |
| A | 1 Nov 2022 | For DCO Submission | COLLJ | DIMMR | CHADC |

Title

5.4.9, ES CHAPTER 9
HYDROLOGY
FIGURE 9.7(B)
RISK OF FLOODING FROM
SURFACE WATER

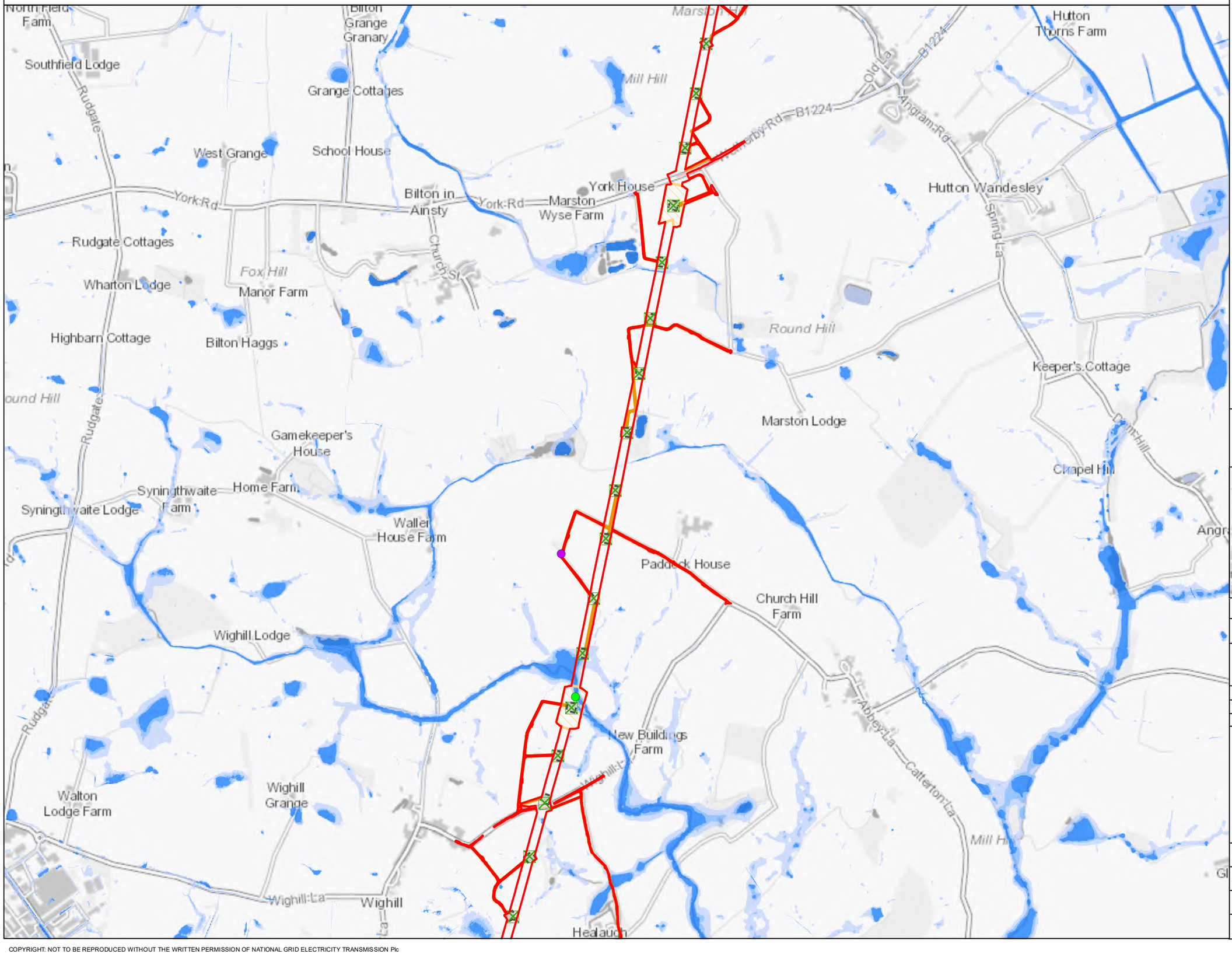
nationalgrid

Figure Number
FIGURE 9.7(B)

Drawing Reference
806503-WOOD-0224 B

| Scale | Sheet Size | Sheet | Issue |
|---|---|---|---|
| 1:20,000 | A3 | SHEET 4 OF 10 | B |

National Grid (Yorkshire Green Energy Enablement Project) Order
5.4.9, ES Chapter 9 Hydrology Figures
Figure 9.7(B) Risk of Flooding from Surface Water: Section C




## Legend

- Order Limits

**Watercourse crossings**

- Existing crossing
- New bridge crossing
- New culvert crossing
- Section Breaks (A to F)
- Existing Lattice Pylon - To be Modified

**Project infrastructure**

- Existing substation
- Proposed substation area
- Indicative construction compounds
- Indicative cable sealing end compounds
- Indicative stringing areas
- Indicative working areas
- Indicative visibility splays
- Indicative access swathe

**Risk of Flooding from Surface Water extents**

- High (3.3% AEP)
- Medium (1% AEP)
- Low (0.1% AEP)

AEP = Annual Exceedance Probability
Where no flood risk is mapped the RoFSW is categorised as 'Very Low'.

Notes

This drawing is scaled at paper size A3, therefore any prints taken at smaller sizes will affect accuracy of the measurement units and should not be scaled against.

Coordinate System: British National Grid
Sheet X Centroid Coordinate: 448,619.27 Sheet Y Centroid Coordinate: 448,933.45

0 250 500 1,000 Meters



| Issue | Date | Remarks | Drawn | Checked | Approved |
|---|---|---|---|---|---|
| B | 28/07/23 | For Deadline Six | BERNB | DIMMR | CHADC |
| A | 1 Nov 2022 | For DCO Submission | COLLJ | DIMMR | CHADC |

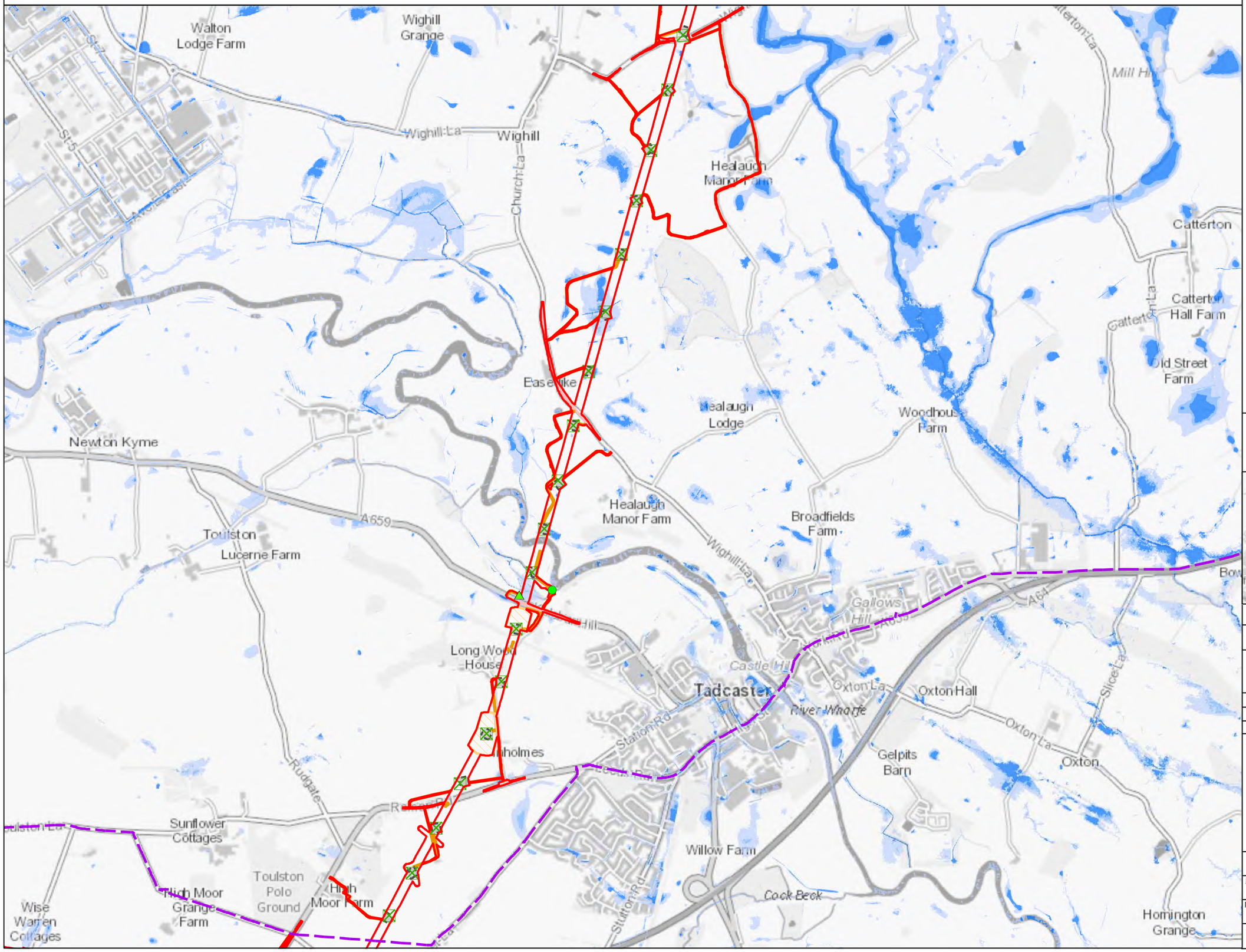
Title

5.4.9, ES CHAPTER 9
HYDROLOGY
FIGURE 9.7(B)
RISK OF FLOODING FROM
SURFACE WATER

nationalgrid

| Figure Number | Drawing Reference | | |
|---|---|---|---|
| FIGURE 9.7(B) | 806503-WOOD-0224 B | | |
| **Scale** | **Sheet Size** | **Sheet** | **Issue** |
| 1:20,000 | A3 | SHEET 5 OF 10 | B |

National Grid (Yorkshire Green Energy Enablement Project) Order
5.4.9, ES Chapter 9 Hydrology Figures
Figure 9.7(B) Risk of Flooding from Surface Water: Section C




## Legend

- Order Limits

**Watercourse crossings**

- Existing crossing
- New bridge crossing
- New culvert crossing
- Section Breaks (A to F)
- Existing Lattice Pylon - To be Modified

**Project infrastructure**

- Existing substation
- Proposed substation area
- Indicative construction compounds
- Indicative cable sealing end compounds
- Indicative stringing areas
- Indicative working areas
- Indicative visibility splays
- Indicative access swathe

**Risk of Flooding from Surface Water extents**

- High (3.3% AEP)
- Medium (1% AEP)
- Low (0.1% AEP)

AEP = Annual Exceedance Probability
Where no flood risk is mapped the RoFSW is categorised as 'Very Low'.

Notes

This drawing is scaled at paper size A3, therefore any prints taken at smaller sizes will affect accuracy of the measurement units and should not be scaled against.

Coordinate System: British National Grid
Sheet X Centroid Coordinate: 447,884.76 Sheet Y Centroid Coordinate: 444,641.53

0 250 500 1,000 Meters



| Issue | Date | Remarks | Drawn | Checked | Approved |
|---|---|---|---|---|---|
| B | 28/07/23 | For Deadline Six | BERNB | DIMMR | CHADC |
| A | 1 Nov 2022 | For DCO Submission | COLLJ | DIMMR | CHADC |

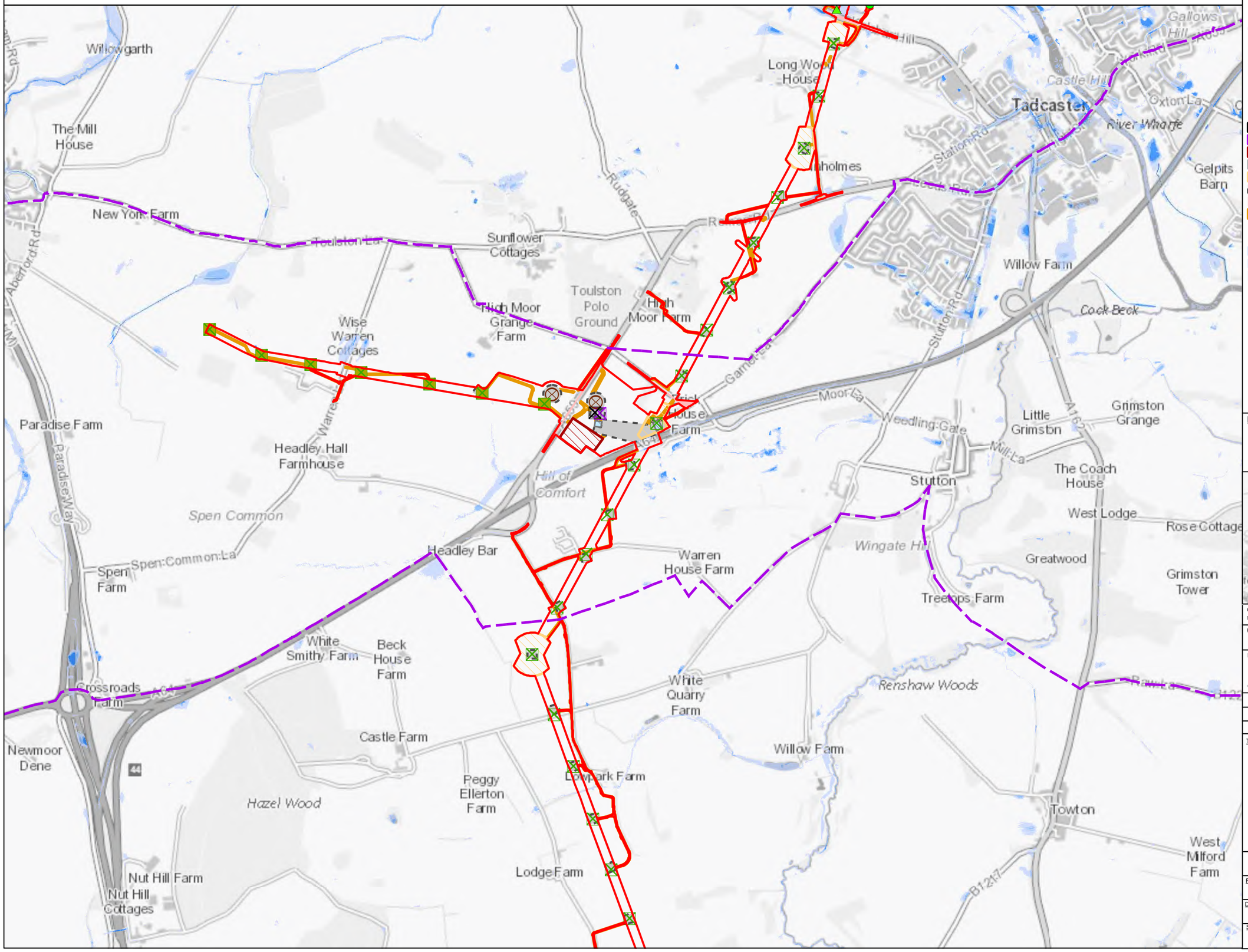
Title

5.4.9, ES CHAPTER 9
HYDROLOGY
FIGURE 9.7(B)
RISK OF FLOODING FROM
SURFACE WATER

nationalgrid

| Figure Number | Drawing Reference | | |
|---|---|---|---|
| FIGURE 9.7(B) | 806503-WOOD-0224 B | | |
| **Scale** | **Sheet Size** | **Sheet** | **Issue** |
| 1:20,000 | A3 | SHEET 6 OF 10 | B |

National Grid (Yorkshire Green Energy Enablement Project) Order
5.4.9, ES Chapter 9 Hydrology Figures
Figure 9.7(B) Risk of Flooding from Surface Water: Section D




## Legend

- Order Limits

**Watercourse crossings**

- Existing crossing
- New bridge crossing
- New culvert crossing
- Section Breaks (A to F)
- Existing Lattice Pylon - To be Modified
- Existing Lattice Pylon - Not Affected
- Existing Lattice Pylon - To be Dismantled
- Indicative New Lattice Pylon
- Indicative Temporary Pylon or Mast

**Project infrastructure**

- Existing substation
- Proposed substation area
- Indicative construction compounds
- Indicative cable sealing end compounds
- Indicative stringing areas
- Indicative working areas
- Indicative visibility splays
- Indicative access swathe

**Risk of Flooding from Surface Water extents**

- High (3.3% AEP)
- Medium (1% AEP)
- Low (0.1% AEP)

AEP = Annual Exceedance Probability
Where no flood risk is mapped the RoFSW is categorised as 'Very Low'.

Notes

This drawing is scaled at paper size A3, therefore any prints taken at smaller sizes will affect accuracy of the measurement units and should not be scaled against.

Coordinate System: British National Grid
Sheet X Centroid Coordinate: 446,128.73 Sheet Y Centroid Coordinate: 441,402.51

0 250 500 1,000 Meters



| Issue | Date | Remarks | Drawn | Checked | Approved |
|---|---|---|---|---|---|
| B | 28/07/23 | For Deadline Six | BERNB | DIMMR | CHADC |
| A | 1 Nov 2022 | For DCO Submission | COLLJ | DIMMR | CHADC |

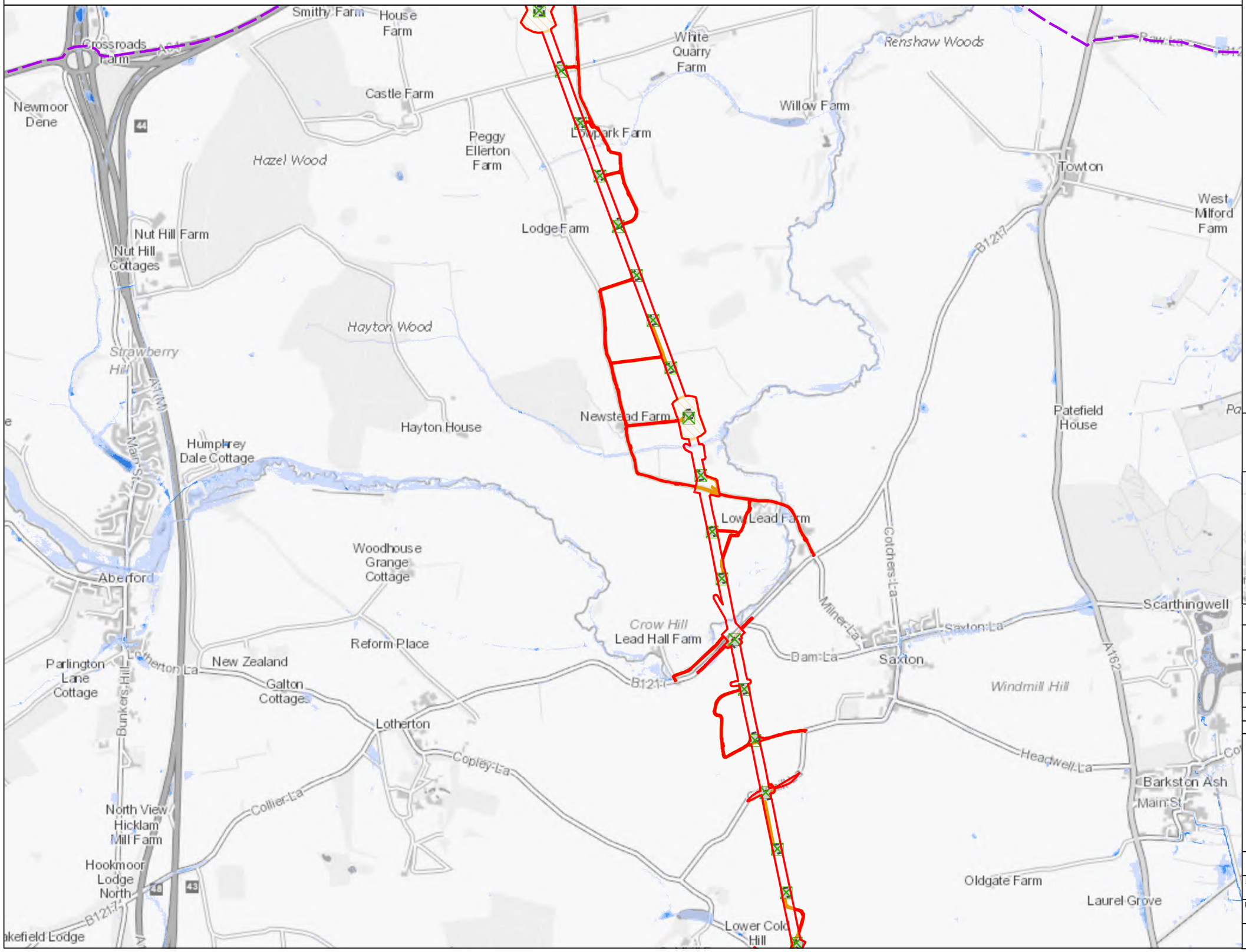
Title

5.4.9, ES CHAPTER 9
HYDROLOGY
FIGURE 9.7(B)
RISK OF FLOODING FROM SURFACE WATER

nationalgrid

| Figure Number | Drawing Reference | Scale | Sheet Size | Sheet | Issue |
|---|---|---|---|---|---|
| FIGURE 9.7(B) | 806503-WOOD-0224 B | 1:20,000 | A3 | SHEET 7 OF 10 | B |

National Grid (Yorkshire Green Energy Enablement Project) Order
5.4.9, ES Chapter 9 Hydrology Figures
Figure 9.7(B) Risk of Flooding from Surface Water: Section E




## Legend

- Order Limits

**Watercourse crossings**

- Existing crossing
- New bridge crossing
- New culvert crossing
- Section Breaks (A to F)
- Existing Lattice Pylon - To be Modified

**Project infrastructure**

- Existing substation
- Proposed substation area
- Indicative construction compounds
- Indicative cable sealing end compounds
- Indicative stringing areas
- Indicative working areas
- Indicative visibility splays
- Indicative access swathe

**Risk of Flooding from Surface Water extents**

- High (3.3% AEP)
- Medium (1% AEP)
- Low (0.1% AEP)

AEP = Annual Exceedance Probability
Where no flood risk is mapped the RoFSW is categorised as 'Very Low'.

Notes

This drawing is scaled at paper size A3, therefore any prints taken at smaller sizes will affect accuracy of the measurement units and should not be scaled against.

Coordinate System: British National Grid
Sheet X Centroid Coordinate: 446,089.19 Sheet Y Centroid Coordinate: 437,844.58

0 250 500 1,000 Meters



| Issue | Date | Remarks | Drawn | Checked | Approved |
|---|---|---|---|---|---|
| B | 28/07/23 | For Deadline Six | BERNB | DIMMR | CHADC |
| A | 1 Nov 2022 | For DCO Submission | COLLJ | DIMMR | CHADC |

Title

5.4.9, ES CHAPTER 9
HYDROLOGY
FIGURE 9.7(B)
RISK OF FLOODING FROM
SURFACE WATER

nationalgrid

Figure Number: FIGURE 9.7(B)

Drawing Reference: 806503-WOOD-0224 B

| Scale | Sheet Size | Sheet | Issue |
|---|---|---|---|
| 1:20,000 | A3 | SHEET 8 OF 10 | B |

National Grid (Yorkshire Green Energy Enablement Project) Order
5.4.9, ES Chapter 9 Hydrology Figures
Figure 9.7(B) Risk of Flooding from Surface Water: Section E

## Legend

- Order Limits

**Watercourse crossings**

- Existing crossing
- New bridge crossing
- New culvert crossing
- Section Breaks (A to F)
- Existing Lattice Pylon - To be Modified

**Project infrastructure**

- Existing substation
- Proposed substation area
- Indicative construction compounds
- Indicative cable sealing end compounds
- Indicative stringing areas
- Indicative working areas
- Indicative visibility splays
- Indicative access swathe

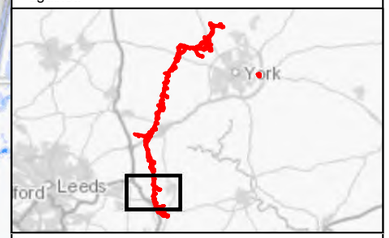
**Risk of Flooding from Surface Water extents**

- High (3.3% AEP)
- Medium (1% AEP)
- Low (0.1% AEP)

AEP = Annual Exceedance Probability
Where no flood risk is mapped the RoFSW is categorised as 'Very Low'.

Notes

This drawing is scaled at paper size A3, therefore any prints taken at smaller sizes will affect accuracy of the measurement units and should not be scaled against.




Coordinate System: British National Grid
Sheet X Centroid Coordinate: 446,978.68 Sheet Y Centroid Coordinate: 432,685.59

0 250 500 1,000 Meters



| Issue | Date | Remarks | Drawn | Checked | Approved |
|---|---|---|---|---|---|
| B | 28/07/23 | For Deadline Six | BERNB | DIMMR | CHADC |
| A | 1 Nov 2022 | For DCO Submission | COLLJ | DIMMR | CHADC |

Title

5.4.9, ES CHAPTER 9
HYDROLOGY
FIGURE 9.7(B)
RISK OF FLOODING FROM
SURFACE WATER

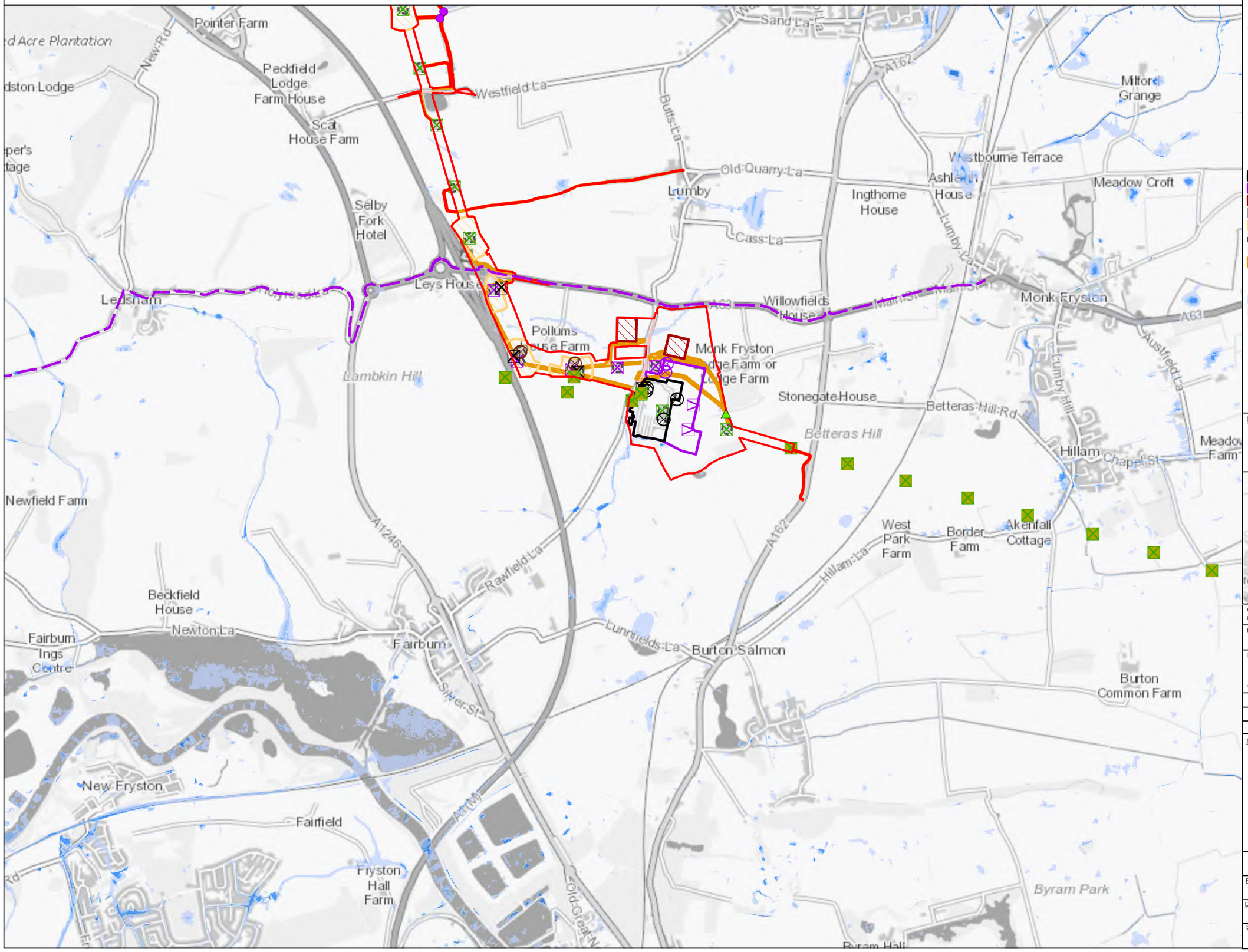
nationalgrid

Figure Number
FIGURE 9.7(B)

Drawing Reference
806503-WOOD-0224 B

| Scale | Sheet Size | Sheet | Issue |
|---|---|---|---|
| 1:20,000 | A3 | SHEET 9 OF 10 | B |

National Grid (Yorkshire Green Energy Enablement Project) Order
5.4.9, ES Chapter 9 Hydrology Figures
Figure 9.7(B) Risk of Flooding from Surface Water: Section F




## Legend

- Order Limits

**Watercourse crossings**

- Existing crossing
- New bridge crossing
- New culvert crossing
- Section Breaks (A to F)
- Existing Lattice Pylon - To be Modified
- Existing Lattice Pylon - Not Affected
- Existing Lattice Pylon - To be Dismantled
- Existing Gantry - To be Dismantled
- Indicative New Lattice Pylon
- Indicative New Gantry
- Indicative New Full Line Tension Gantry
- Indicative Temporary Pylon or Mast

**Project infrastructure**

- Existing substation
- Proposed substation area
- Indicative construction compounds
- Indicative cable sealing end compounds
- Indicative stringing areas
- Indicative working areas
- Indicative visibility splays
- Indicative access swathe

**Risk of Flooding from Surface Water extents**

- High (3.3% AEP)
- Medium (1% AEP)
- Low (0.1% AEP)

AEP = Annual Exceedance Probability
Where no flood risk is mapped the RoFSW is categorised as 'Very Low'.

Notes

This drawing is scaled at paper size A3, therefore any prints taken at smaller sizes will affect accuracy of the measurement units and should not be scaled against.

Coordinate System: British National Grid
Sheet X Centroid Coordinate: 448,283.25 Sheet Y Centroid Coordinate: 428,752.10

0 250 500 1,000 Meters



| Issue | Date | Remarks | Drawn | Checked | Approved |
|---|---|---|---|---|---|
| B | 28/07/23 | For Deadline Six | BERNB | DIMMR | CHADC |
| A | 1 Nov 2022 | For DCO Submission | COLLJ | DIMMR | CHADC |

Title

5.4.9, ES CHAPTER 9
HYDROLOGY
FIGURE 9.7(B)
RISK OF FLOODING FROM
SURFACE WATER

nationalgrid

| Figure Number | Drawing Reference | | |
|---|---|---|---|
| FIGURE 9.7(B) | 806503-WOOD-0224 B | | |
| **Scale** | **Sheet Size** | **Sheet** | **Issue** |
| 1:20,000 | A3 | SHEET 10 OF 10 | B |

National Grid (Yorkshire Green Energy Enablement Project) Order
5.4.9, ES Chapter 9 Hydrology Figures
Figure 9.8(B) York Detailed Model Outputs: Overton Substation

AEP = Annual Exceedance Probability. Where no flood risk is mapped the fluvial flood risk is categorised as 'Very Low'.

Flood Zone 3b (4% AEP) is based upon EA modelling of the River Ure and Tributaries, whilst Flood Zone 3b (5% AEP) is based upon EA Modelling of the Ouse and Wharfe Washlands, and the York Detailed Model.

## Legend

- Order Limits

**Watercourse crossings**

- Existing crossing
- New bridge crossing
- New culvert crossing
- Section Breaks (A to F)
- Existing Lattice Pylon - To be Modified
- Existing Lattice Pylon - Not Affected
- Existing Lattice Pylon - To be Dismantled
- Indicative New Lattice Pylon
- Indicative New Gantry
- Indicative New Full Line Tension Gantry
- Indicative Temporary Pylon or Mast

**York Detailed Model**

- 1 in 100 + 30% CC Modelled Flood Outputs
- 1 in 100 + 50% CC Modelled Flood Outputs

**Project infrastructure**

- Proposed substation area
- Indicative construction compounds
- Indicative cable sealing end compounds
- Indicative stringing areas
- Indicative working areas
- Indicative visibility splays
- Indicative access swathe

**Flood Zones**

- Flood Zone 3b (4% AEP)
- Flood Zone 3b (5% AEP)
- Flood Zone 3 (1% AEP)
- Flood Zone 2 (0.1% AEP)

Notes

This drawing is scaled at paper size A3, therefore any prints taken at smaller sizes will affect accuracy of the measurement units and should not be scaled against.

Coordinate System: British National Grid
Sheet X Centroid Coordinate: 455,661.00 Sheet Y Centroid Coordinate: 457,309.00

0 187.5 375 750 Meters



| Issue | Date | Remarks | Drawn | Checked | Approved |
|---|---|---|---|---|---|
| B | 28/07/23 | For Deadline Six | BERNB | DIMMR | CHADC |
| A | 1 Nov 2022 | For DCO Submission | COLLJ | DIMMR | CHADC |

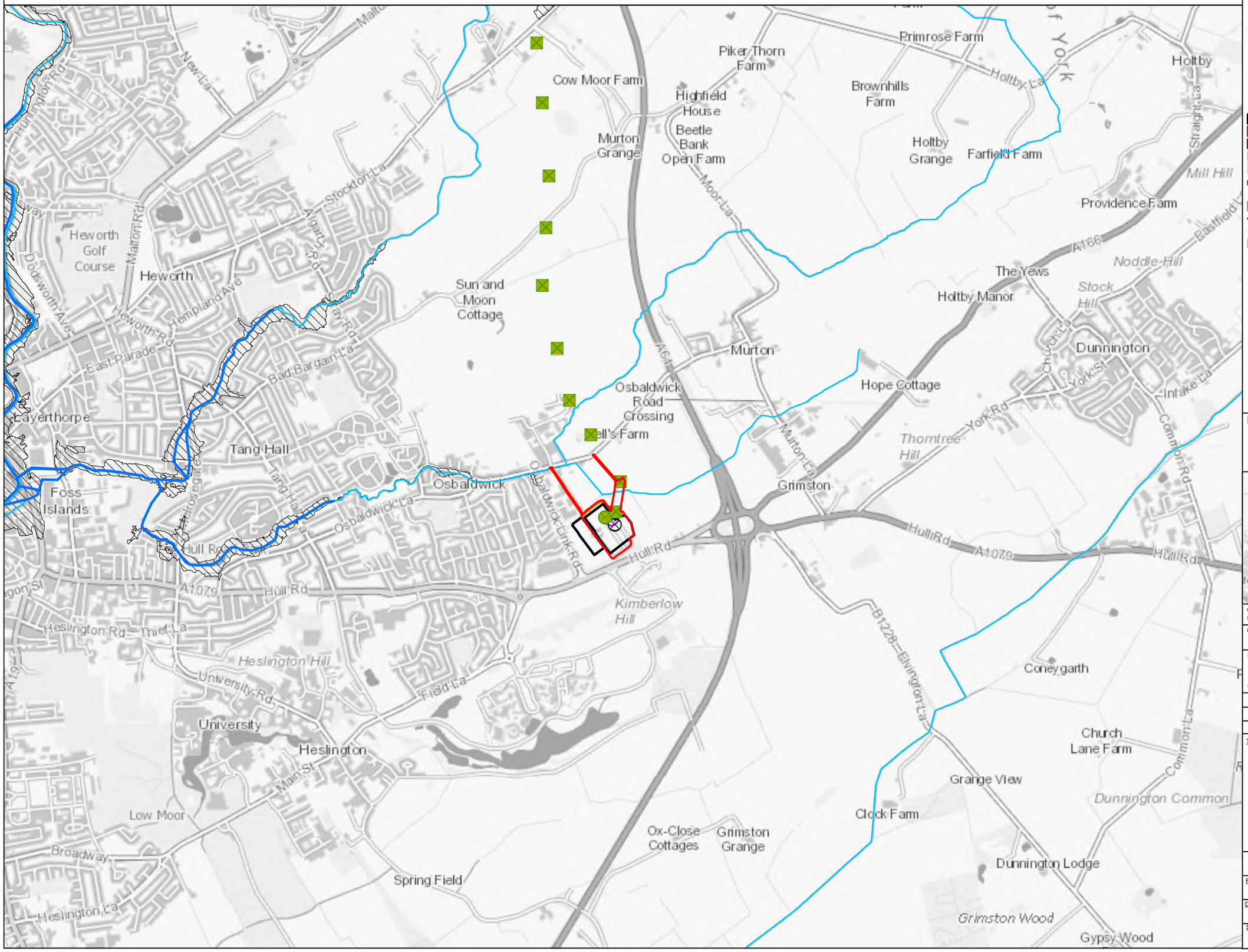
Title

5.4.9, ES CHAPTER 9
HYDROLOGY
FIGURE 9.8(B)
YORK DETAILED MODEL OUTPUTS:
OVERTON SUBSTATION

nationalgrid

| Figure Number | Drawing Reference | | |
|---|---|---|---|
| FIGURE 9.8(B) | 806503-WOOD-0225 B | | |
| **Scale** | **Sheet Size** | **Sheet** | **Issue** |
| 1:15,000 | A3 | SHEET 1 OF 1 | B |

National Grid (Yorkshire Green Energy Enablement Project) Order
5.4.9, ES Chapter 9 Hydrology Figures
Figure 9.9(B) Historic Flood Outlines: Section A




## Legend

- Order Limits

**Watercourse crossings**

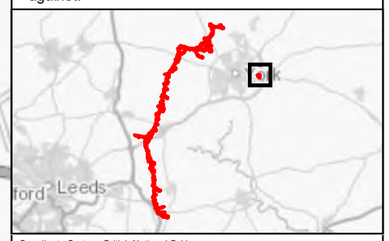
- Existing crossing
- New bridge crossing
- New culvert crossing
- Section Breaks (A to F)
- Existing Lattice Pylon - Not Affected
- Existing Gantry - Not Affected
- Existing Gantry - To be Dismantled
- Indicative New Gantry

**Project infrastructure**

- Existing substation
- Proposed substation area
- Indicative construction compounds
- Indicative cable sealing end compounds
- Indicative stringing areas
- Indicative working areas
- Indicative visibility splays
- Indicative access swathe
- EA Main Rivers
- WFD Watercourses
- All recorded historic flood outlines

Notes

This drawing is scaled at paper size A3, therefore any prints taken at smaller sizes will affect accuracy of the measurement units and should not be scaled against.



Coordinate System: British National Grid
Sheet X Centroid Coordinate: 464,313.68 Sheet Y Centroid Coordinate: 451,918.16

0 250 500 1,000 Meters



| Issue | Date | Remarks | Drawn | Checked | Approved |
|---|---|---|---|---|---|
| B | 28/07/23 | For Deadline Six | BERNB | DIMMR | CHADC |
| A | 1 Nov 2022 | For DCO Submission | COLLJ | DIMMR | CHADC |

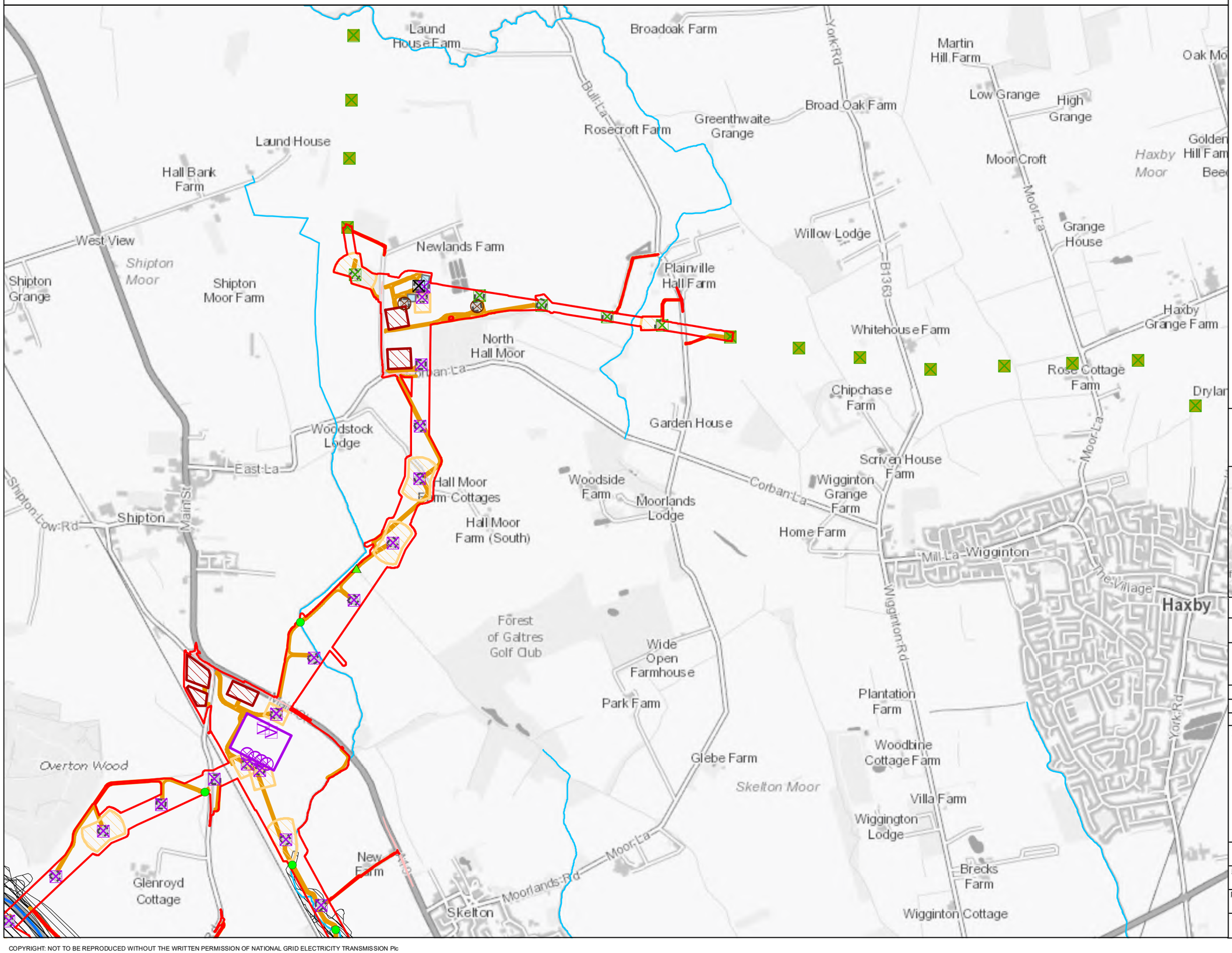
Title

5.4.9, ES CHAPTER 9
HYDROLOGY
FIGURE 9.9(B)
HISTORIC FLOOD OUTLINES

nationalgrid

| Figure Number | | | |
|---|---|---|---|
| FIGURE 9.9(B) | | | |
| Drawing Reference | | | |
| 806503-WOOD-0226 B | | | |
| Scale | Sheet Size | Sheet | Issue |
| 1:20,000 | A3 | SHEET 1 OF 10 | B |

National Grid (Yorkshire Green Energy Enablement Project) Order
5.4.9, ES Chapter 9 Hydrology Figures
Figure 9.9(B) Historic Flood Outlines: Section B




## Legend

- Order Limits

**Watercourse crossings**

- Existing crossing
- New bridge crossing
- New culvert crossing
- Section Breaks (A to F)
- Existing Lattice Pylon - To be Modified
- Existing Lattice Pylon - Not Affected
- Existing Lattice Pylon - To be Dismantled
- Indicative New Lattice Pylon
- Indicative New Gantry
- Indicative New Full Line Tension Gantry
- Indicative Temporary Pylon or Mast

**Project infrastructure**

- Existing substation
- Proposed substation area
- Indicative construction compounds
- Indicative cable sealing end compounds
- Indicative stringing areas
- Indicative working areas
- Indicative visibility splays
- Indicative access swathe
- EA Main Rivers
- WFD Watercourses
- All recorded historic flood outlines

Notes

This drawing is scaled at paper size A3, therefore any prints taken at smaller sizes will affect accuracy of the measurement units and should not be scaled against.

Coordinate System: British National Grid
Sheet X Centroid Coordinate: 457,691.99 Sheet Y Centroid Coordinate: 458,895.64

0 250 500 1,000 Meters



| Issue | Date | Remarks | Drawn | Checked | Approved |
|---|---|---|---|---|---|
| B | 28/07/23 | For Deadline Six | BERNB | DIMMR | CHADC |
| A | 1 Nov 2022 | For DCO Submission | COLLJ | DIMMR | CHADC |

Title

5.4.9, ES CHAPTER 9
HYDROLOGY
FIGURE 9.9(B)
HISTORIC FLOOD OUTLINES

nationalgrid

Figure Number: FIGURE 9.9(B)

Drawing Reference: 806503-WOOD-0226 B

| Scale | Sheet Size | Sheet | Issue |
|---|---|---|---|
| 1:20,000 | A3 | SHEET 2 OF 10 | B |

National Grid (Yorkshire Green Energy Enablement Project) Order
5.4.9, ES Chapter 9 Hydrology Figures
Figure 9.9(B) Historic Flood Outlines: Section B

## Legend

- Order Limits

**Watercourse crossings**

- Existing crossing
- New bridge crossing
- New culvert crossing
- Section Breaks (A to F)
- Existing Lattice Pylon - To be Modified
- Existing Lattice Pylon - Not Affected
- Existing Lattice Pylon - To be Dismantled
- Indicative New Lattice Pylon
- Indicative New Gantry
- Indicative New Full Line Tension Gantry
- Indicative Temporary Pylon or Mast

**Project infrastructure**

- Existing substation
- Proposed substation area
- Indicative construction compounds
- Indicative cable sealing end compounds
- Indicative stringing areas
- Indicative working areas
- Indicative visibility splays
- Indicative access swathe
- EA Main Rivers
- WFD Watercourses
- All recorded historic flood outlines

Notes

This drawing is scaled at paper size A3, therefore any prints taken at smaller sizes will affect accuracy of the measurement units and should not be scaled against.

Coordinate System: British National Grid
Sheet X Centroid Coordinate: 453,530.19 Sheet Y Centroid Coordinate: 456,270.93

0 275 550 1,100 Meters



| Issue | Date | Remarks | Drawn | Checked | Approved |
|---|---|---|---|---|---|
| B | 28/07/23 | For Deadline Six | BERNB | DIMMR | CHADC |
| A | 1 Nov 2022 | For DCO Submission | COLLJ | DIMMR | CHADC |

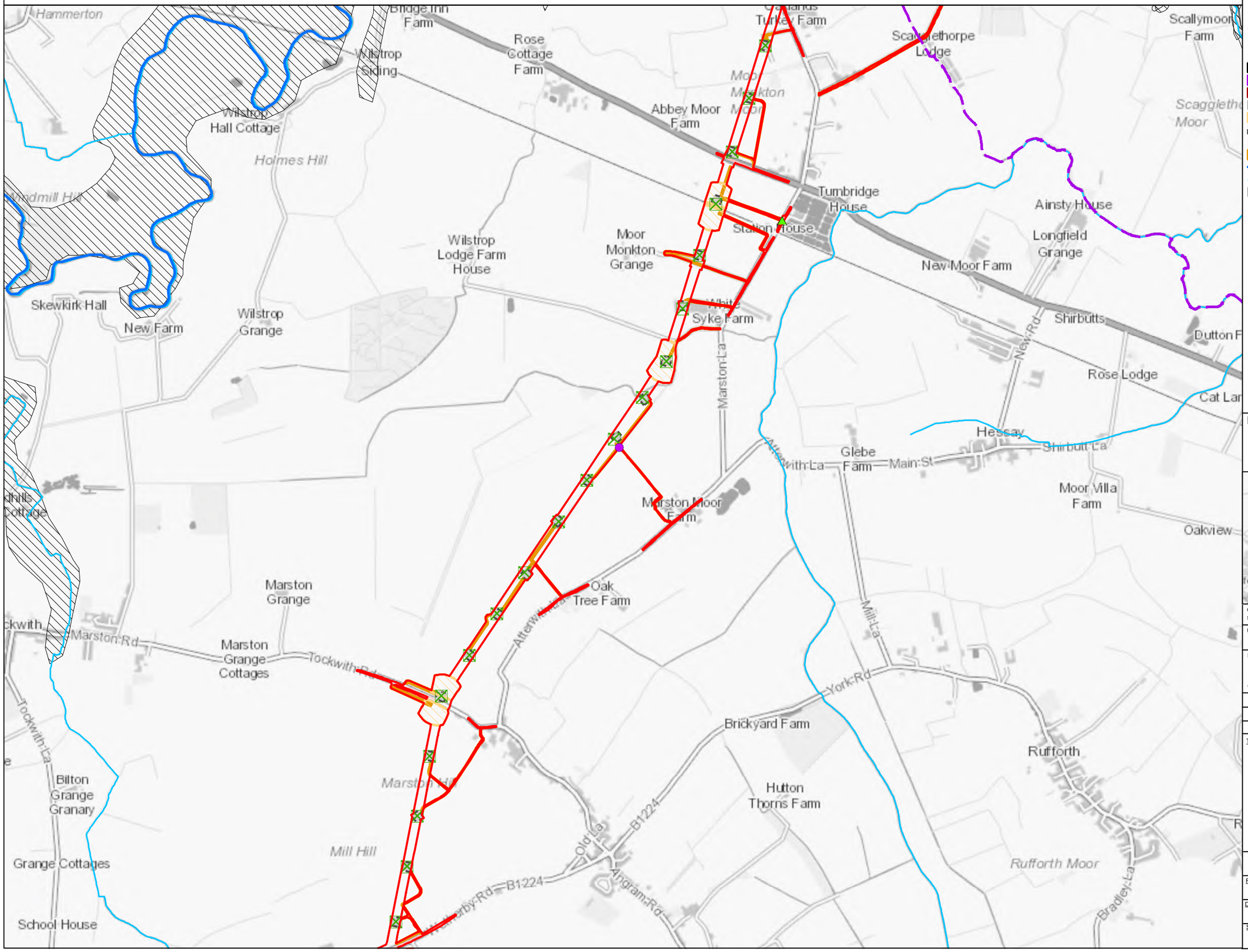
Title

5.4.9, ES CHAPTER 9
HYDROLOGY
FIGURE 9.9(B)
HISTORIC FLOOD OUTLINES

nationalgrid

| Figure Number | Drawing Reference | | |
|---|---|---|---|
| FIGURE 9.9(B) | 806503-WOOD-0226 B | | |
| **Scale** | **Sheet Size** | **Sheet** | **Issue** |
| 1:22,000 | A3 | SHEET 3 OF 10 | B |

National Grid (Yorkshire Green Energy Enablement Project) Order
5.4.9, ES Chapter 9 Hydrology Figures
Figure 9.9(B) Historic Flood Outlines: Section C




## Legend

- Order Limits

**Watercourse crossings**

- Existing crossing
- New bridge crossing
- New culvert crossing
- Section Breaks (A to F)
- Existing Lattice Pylon - To be Modified

**Project infrastructure**

- Existing substation
- Proposed substation area
- Indicative construction compounds
- Indicative cable sealing end compounds
- Indicative stringing areas
- Indicative working areas
- Indicative visibility splays
- Indicative access swathe
- EA Main Rivers
- WFD Watercourses
- All recorded historic flood outlines

Notes

This drawing is scaled at paper size A3, therefore any prints taken at smaller sizes will affect accuracy of the measurement units and should not be scaled against.

Coordinate System: British National Grid
Sheet X Centroid Coordinate: 450,259.87 Sheet Y Centroid Coordinate: 453,202.96

0 250 500 1,000 Meters



| Issue | Date | Remarks | Drawn | Checked | Approved |
|---|---|---|---|---|---|
| B | 28/07/23 | For Deadline Six | BERNB | DIMMR | CHADC |
| A | 1 Nov 2022 | For DCO Submission | COLLJ | DIMMR | CHADC |

Title

5.4.9, ES CHAPTER 9
HYDROLOGY
FIGURE 9.9(B)
HISTORIC FLOOD OUTLINES

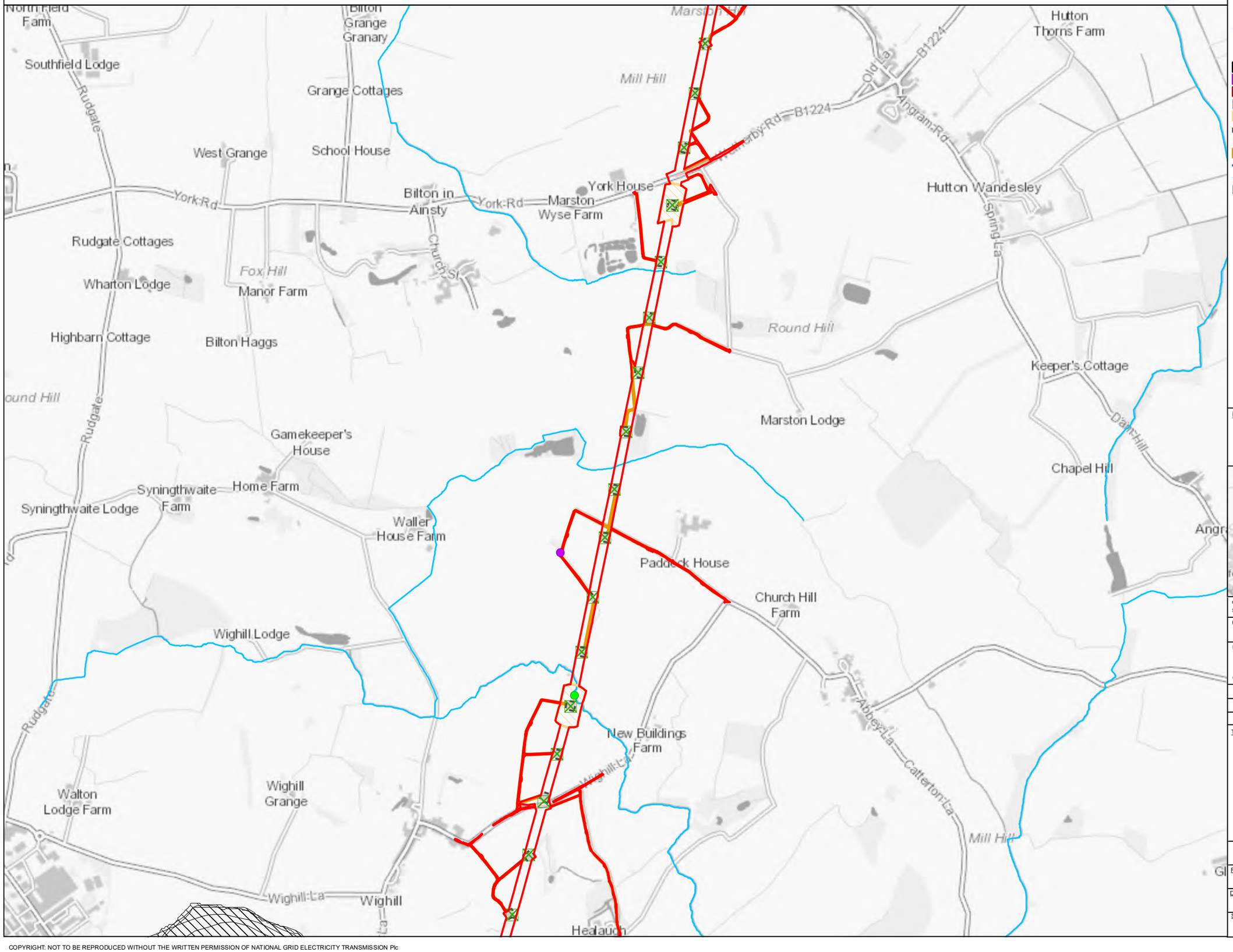
nationalgrid

Figure Number
FIGURE 9.9(B)

Drawing Reference
806503-WOOD-0226 B

| Scale | Sheet Size | Sheet | Issue |
|---|---|---|---|
| 1:20,000 | A3 | SHEET 4 OF 10 | B |

National Grid (Yorkshire Green Energy Enablement Project) Order
5.4.9, ES Chapter 9 Hydrology Figures
Figure 9.9(B) Historic Flood Outlines: Section C




## Legend

- Order Limits

**Watercourse crossings**

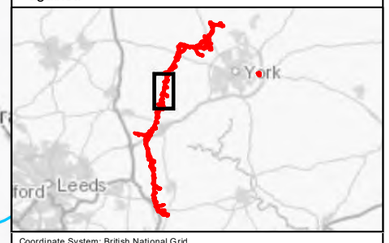
- Existing crossing
- New bridge crossing
- New culvert crossing
- Section Breaks (A to F)
- Existing Lattice Pylon - To be Modified

**Project infrastructure**

- Existing substation
- Proposed substation area
- Indicative construction compounds
- Indicative cable sealing end compounds
- Indicative stringing areas
- Indicative working areas
- Indicative visibility splays
- Indicative access swathe
- EA Main Rivers
- WFD Watercourses
- All recorded historic flood outlines

Notes

This drawing is scaled at paper size A3, therefore any prints taken at smaller sizes will affect accuracy of the measurement units and should not be scaled against.




Coordinate System: British National Grid
Sheet X Centroid Coordinate: 448,619.27 Sheet Y Centroid Coordinate: 448,933.45

0 250 500 1,000 Meters



| Issue | Date | Remarks | Drawn | Checked | Approved |
|---|---|---|---|---|---|
| B | 28/07/23 | For Deadline Six | BERNB | DIMMR | CHADC |
| A | 1 Nov 2022 | For DCO Submission | COLLJ | DIMMR | CHADC |

Title

5.4.9, ES CHAPTER 9
HYDROLOGY
FIGURE 9.9(B)
HISTORIC FLOOD OUTLINES

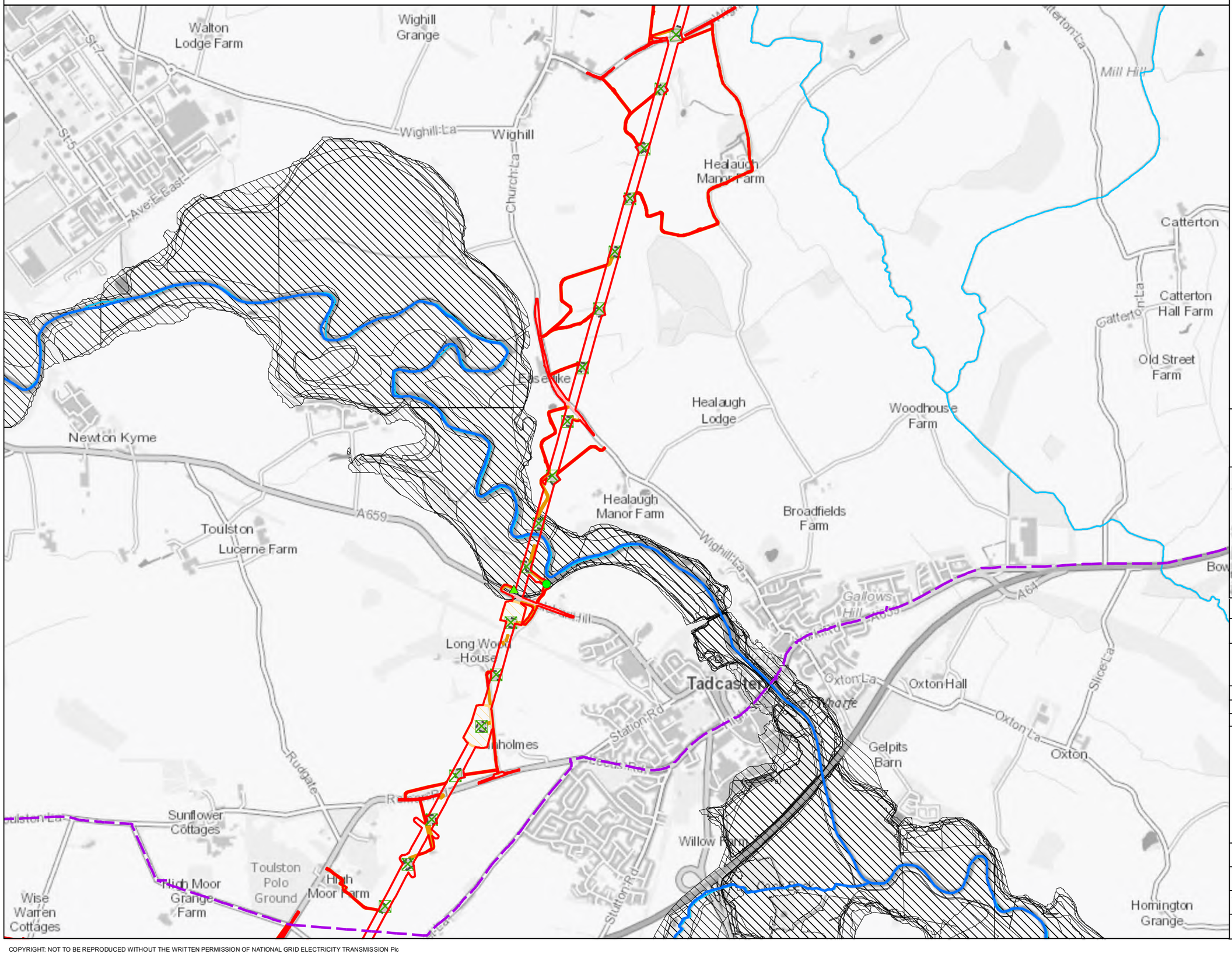
nationalgrid

Figure Number
FIGURE 9.9(B)

Drawing Reference
806503-WOOD-0226 B

| Scale | Sheet Size | Sheet | Issue |
|---|---|---|---|
| 1:20,000 | A3 | SHEET 5 OF 10 | B |

National Grid (Yorkshire Green Energy Enablement Project) Order
5.4.9, ES Chapter 9 Hydrology Figures
Figure 9.9(B) Historic Flood Outlines: Section C




## Legend

- Order Limits

**Watercourse crossings**

- Existing crossing
- New bridge crossing
- New culvert crossing
- Section Breaks (A to F)
- Existing Lattice Pylon - To be Modified

**Project infrastructure**

- Existing substation
- Proposed substation area
- Indicative construction compounds
- Indicative cable sealing end compounds
- Indicative stringing areas
- Indicative working areas
- Indicative visibility splays
- Indicative access swathe
- EA Main Rivers
- WFD Watercourses
- All recorded historic flood outlines

Notes

This drawing is scaled at paper size A3, therefore any prints taken at smaller sizes will affect accuracy of the measurement units and should not be scaled against.

Coordinate System: British National Grid
Sheet X Centroid Coordinate: 447,884.76 Sheet Y Centroid Coordinate: 444,641.53

0 250 500 1,000 Meters



| Issue | Date | Remarks | Drawn | Checked | Approved |
|---|---|---|---|---|---|
| B | 28/07/23 | For Deadline Six | BERNB | DIMMR | CHADC |
| A | 1 Nov 2022 | For DCO Submission | COLLJ | DIMMR | CHADC |

Title

5.4.9, ES CHAPTER 9
HYDROLOGY
FIGURE 9.9(B)
HISTORIC FLOOD OUTLINES

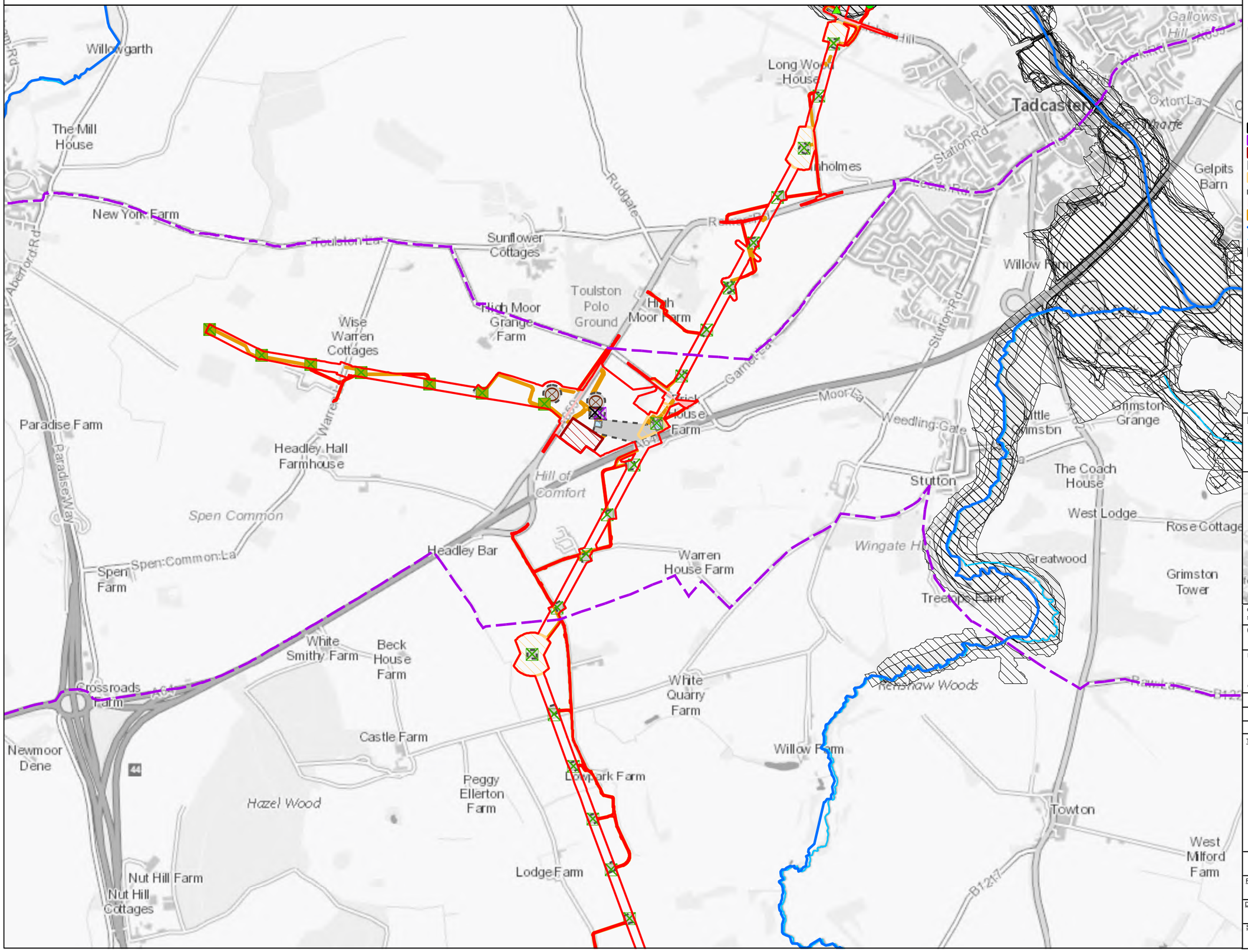
nationalgrid

Figure Number
FIGURE 9.9(B)

Drawing Reference
806503-WOOD-0226 B

| Scale | Sheet Size | Sheet | Issue |
|---|---|---|---|
| 1:20,000 | A3 | SHEET 6 OF 10 | B |

National Grid (Yorkshire Green Energy Enablement Project) Order
5.4.9, ES Chapter 9 Hydrology Figures
Figure 9.9(B) Historic Flood Outlines: Section D




## Legend

- Order Limits

**Watercourse crossings**

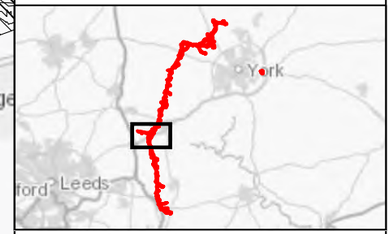
- Existing crossing
- New bridge crossing
- New culvert crossing
- Section Breaks (A to F)
- Existing Lattice Pylon - To be Modified
- Existing Lattice Pylon - Not Affected
- Existing Lattice Pylon - To be Dismantled
- Indicative New Lattice Pylon
- Indicative Temporary Pylon or Mast

**Project infrastructure**

- Existing substation
- Proposed substation area
- Indicative construction compounds
- Indicative cable sealing end compounds
- Indicative stringing areas
- Indicative working areas
- Indicative visibility splays
- Indicative access swathe
- EA Main Rivers
- WFD Watercourses
- All recorded historic flood outlines

Notes

This drawing is scaled at paper size A3, therefore any prints taken at smaller sizes will affect accuracy of the measurement units and should not be scaled against.




Coordinate System: British National Grid
Sheet X Centroid Coordinate: 446,128.73 Sheet Y Centroid Coordinate: 441,402.51

0 250 500 1,000 Meters



| Issue | Date | Remarks | Drawn | Checked | Approved |
|---|---|---|---|---|---|
| B | 28/07/23 | For Deadline Six | BERNB | DIMMR | CHADC |
| A | 1 Nov 2022 | For DCO Submission | COLLJ | DIMMR | CHADC |

Title

5.4.9, ES CHAPTER 9
HYDROLOGY
FIGURE 9.9(B)
HISTORIC FLOOD OUTLINES

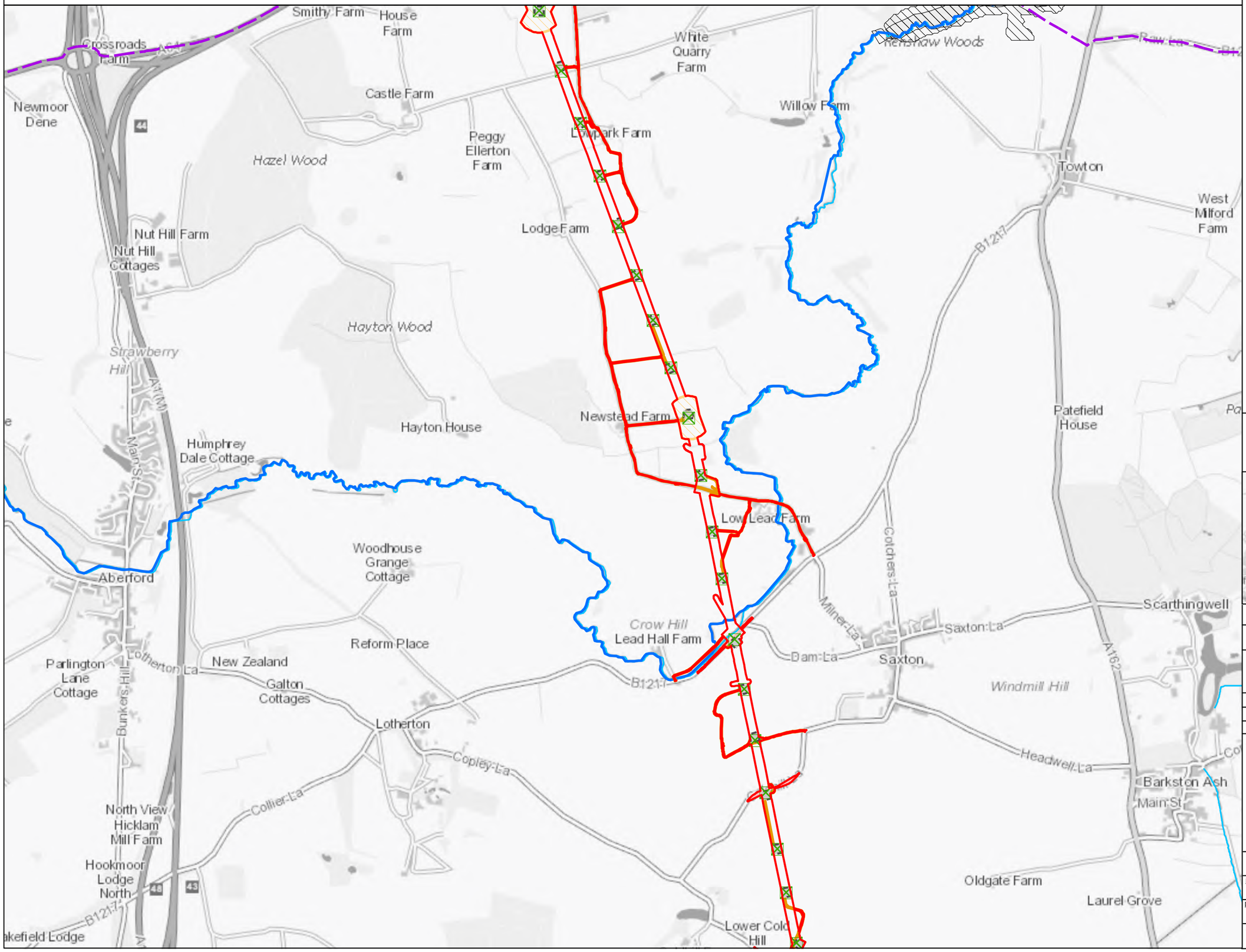
nationalgrid

Figure Number
FIGURE 9.9(B)

Drawing Reference
806503-WOOD-0226 B

| Scale | Sheet Size | Sheet | Issue |
|---|---|---|---|
| 1:20,000 | A3 | SHEET 7 OF 10 | B |

National Grid (Yorkshire Green Energy Enablement Project) Order
5.4.9, ES Chapter 9 Hydrology Figures
Figure 9.9(B) Historic Flood Outlines: Section E




## Legend

- Order Limits

**Watercourse crossings**

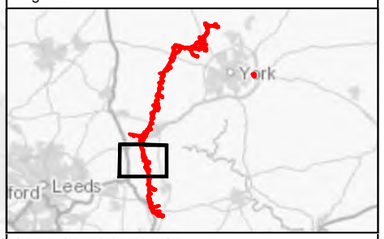
- Existing crossing
- New bridge crossing
- New culvert crossing
- Section Breaks (A to F)
- Existing Lattice Pylon - To be Modified

**Project infrastructure**

- Existing substation
- Proposed substation area
- Indicative construction compounds
- Indicative cable sealing end compounds
- Indicative stringing areas
- Indicative working areas
- Indicative visibility splays
- Indicative access swathe
- EA Main Rivers
- WFD Watercourses
- All recorded historic flood outlines

Notes

This drawing is scaled at paper size A3, therefore any prints taken at smaller sizes will affect accuracy of the measurement units and should not be scaled against.




Coordinate System: British National Grid
Sheet X Centroid Coordinate: 446,089.19 Sheet Y Centroid Coordinate: 437,844.58

0 250 500 1,000 Meters



| Issue | Date | Remarks | Drawn | Checked | Approved |
|---|---|---|---|---|---|
| B | 28/07/23 | For Deadline Six | BERNB | DIMMR | CHADC |
| A | 1 Nov 2022 | For DCO Submission | COLLJ | DIMMR | CHADC |

Title

5.4.9, ES CHAPTER 9
HYDROLOGY
FIGURE 9.9(B)
HISTORIC FLOOD OUTLINES

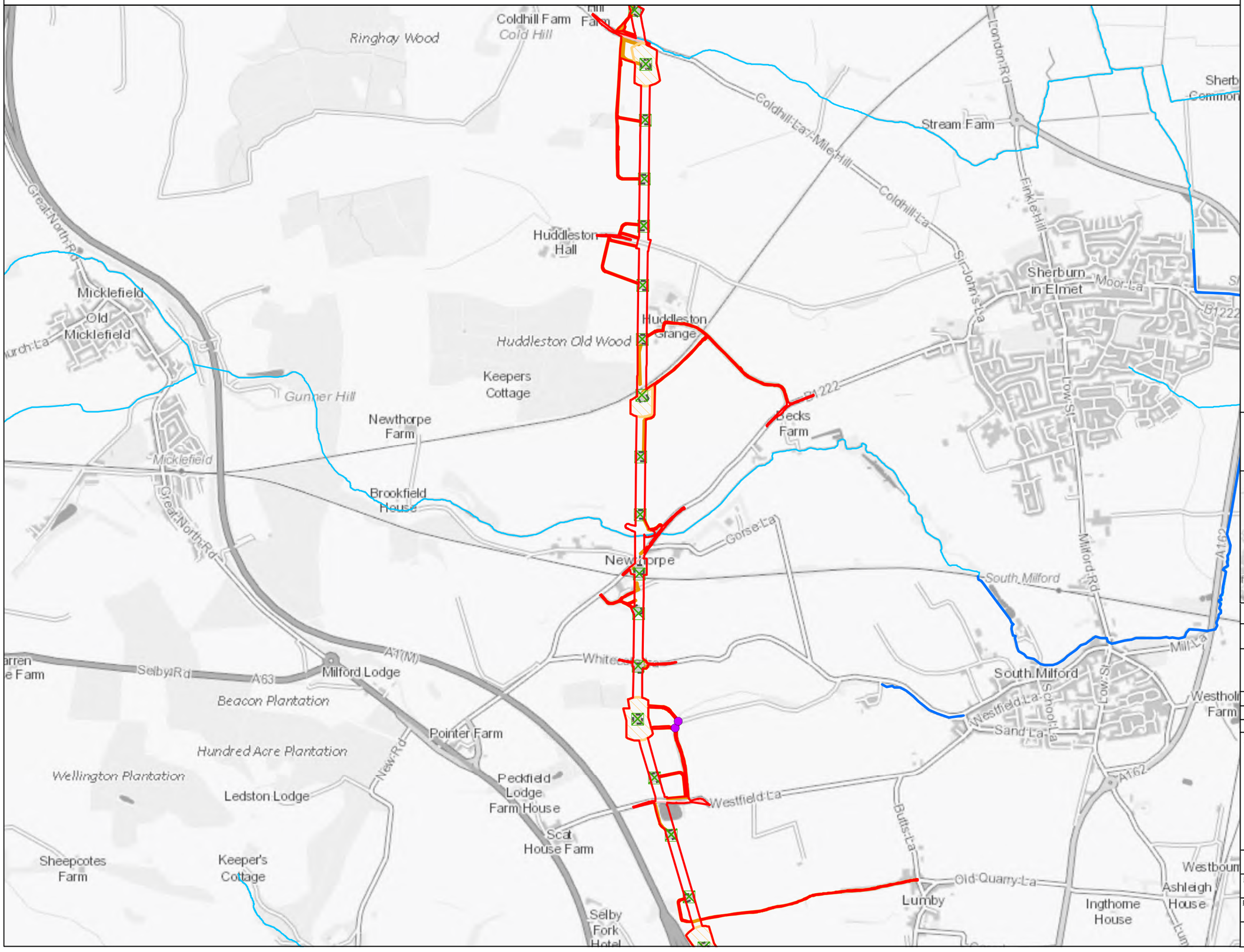
nationalgrid

Figure Number
FIGURE 9.9(B)

Drawing Reference
806503-WOOD-0226 B

| Scale | Sheet Size | Sheet | Issue |
|---|---|---|---|
| 1:20,000 | A3 | SHEET 8 OF 10 | B |

National Grid (Yorkshire Green Energy Enablement Project) Order
5.4.9, ES Chapter 9 Hydrology Figures
Figure 9.9(B) Historic Flood Outlines: Section E




## Legend

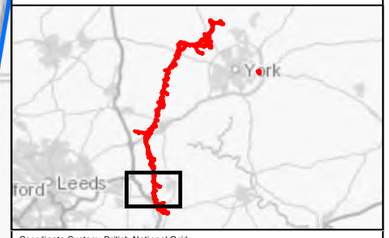
- Order Limits

**Watercourse crossings**
- Existing crossing
- New bridge crossing
- New culvert crossing
- Section Breaks (A to F)
- Existing Lattice Pylon - To be Modified

**Project infrastructure**
- Existing substation
- Proposed substation area
- Indicative construction compounds
- Indicative cable sealing end compounds
- Indicative stringing areas
- Indicative working areas
- Indicative visibility splays
- Indicative access swathe
- EA Main Rivers
- WFD Watercourses
- All recorded historic flood outlines

Notes

This drawing is scaled at paper size A3, therefore any prints taken at smaller sizes will affect accuracy of the measurement units and should not be scaled against.




Coordinate System: British National Grid
Sheet X Centroid Coordinate: 446,978.68 Sheet Y Centroid Coordinate: 432,685.59

0 250 500 1,000
Meters



| Issue | Date | Remarks | Drawn | Checked | Approved |
|---|---|---|---|---|---|
| B | 28/07/23 | For Deadline Six | BERNB | DIMMR | CHADC |
| A | 1 Nov 2022 | For DCO Submission | COLLJ | DIMMR | CHADC |

Title

5.4.9, ES CHAPTER 9
HYDROLOGY
FIGURE 9.9(B)
HISTORIC FLOOD OUTLINES

nationalgrid

Figure Number
FIGURE 9.9(B)

Drawing Reference
806503-WOOD-0226 B

| Scale | Sheet Size | Sheet | Issue |
|---|---|---|---|
| 1:20,000 | A3 | SHEET 9 OF 10 | B |

National Grid (Yorkshire Green Energy Enablement Project) Order
5.4.9, ES Chapter 9 Hydrology Figures
Figure 9.9(B) Historic Flood Outlines: Section F

## Legend

- Order Limits

**Watercourse crossings**

- Existing crossing
- New bridge crossing
- New culvert crossing
- Section Breaks (A to F)
- Existing Lattice Pylon - To be Modified
- Existing Lattice Pylon - Not Affected
- Existing Lattice Pylon - To be Dismantled
- Existing Gantry - To be Dismantled
- Indicative New Lattice Pylon
- Indicative New Gantry
- Indicative New Full Line Tension Gantry
- Indicative Temporary Pylon or Mast

**Project infrastructure**

- Existing substation
- Proposed substation area
- Indicative construction compounds
- Indicative cable sealing end compounds
- Indicative stringing areas
- Indicative working areas
- Indicative visibility splays
- Indicative access swathe
- EA Main Rivers
- WFD Watercourses
- All recorded historic flood outlines

Notes

This drawing is scaled at paper size A3, therefore any prints taken at smaller sizes will affect accuracy of the measurement units and should not be scaled against.

Coordinate System: British National Grid
Sheet X Centroid Coordinate: 448,283.25 Sheet Y Centroid Coordinate: 428,752.10

0 250 500 1,000 Meters



| Issue | Date | Remarks | Drawn | Checked | Approved |
|---|---|---|---|---|---|
| B | 28/07/23 | For Deadline Six | BERNB | DIMMR | CHADC |
| A | 1 Nov 2022 | For DCO Submission | COLLJ | DIMMR | CHADC |

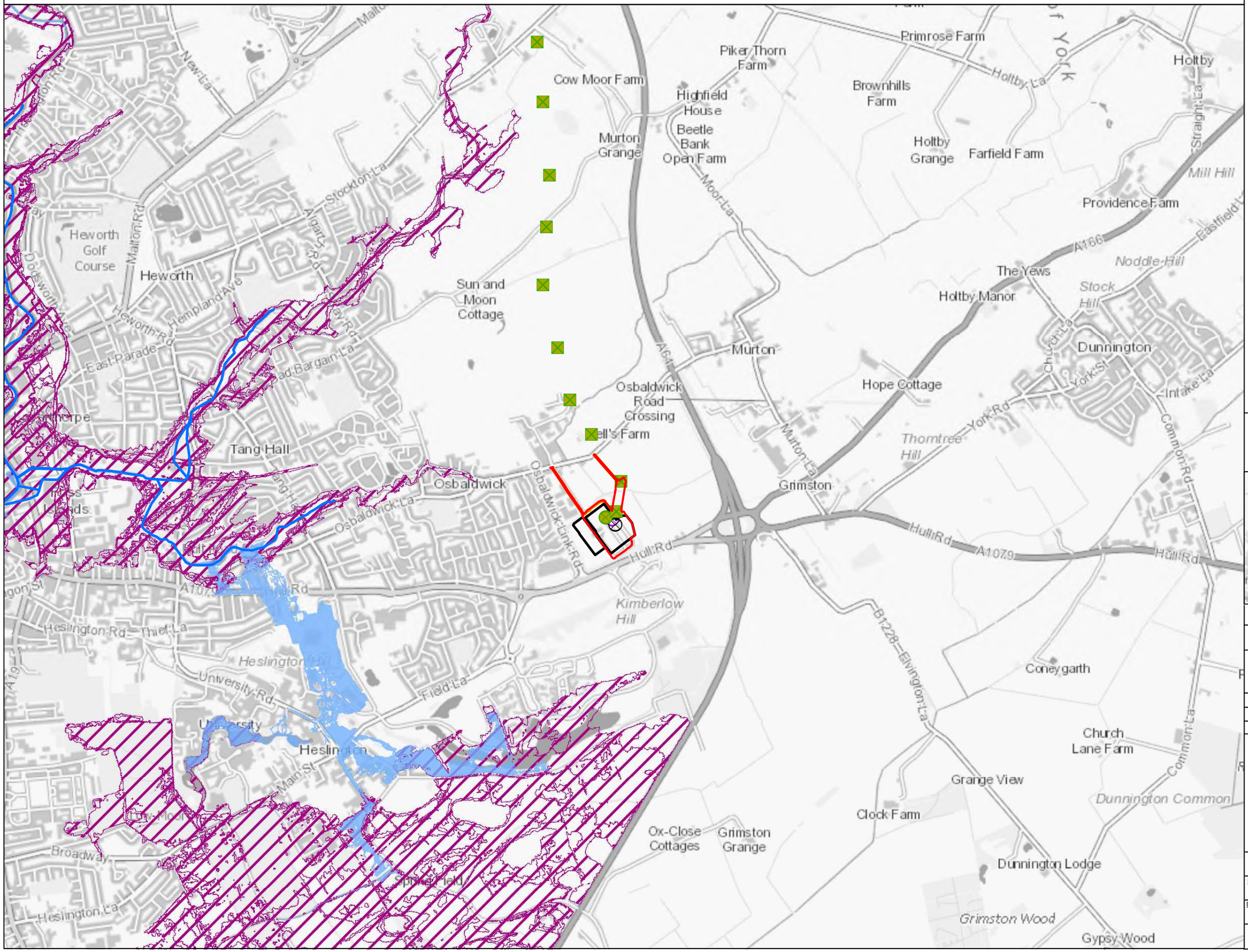
Title

5.4.9, ES CHAPTER 9
HYDROLOGY
FIGURE 9.9(B)
HISTORIC FLOOD OUTLINES

nationalgrid

| Figure Number | Drawing Reference | | |
|---|---|---|---|
| FIGURE 9.9(B) | 806503-WOOD-0226 B | | |
| **Scale** | **Sheet Size** | **Sheet** | **Issue** |
| 1:20,000 | A3 | SHEET 10 OF 10 | B |

National Grid (Yorkshire Green Energy Enablement Project) Order
5.4.9, ES Chapter 9 Hydrology Figures
Figure 9.10(B) Reservoir Flood Extents: Section A




## Legend

- Order Limits

**Watercourse crossings**

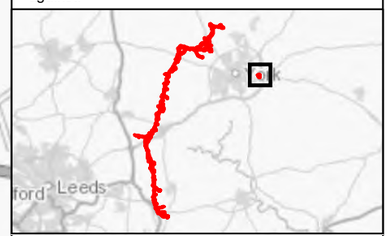
- Existing crossing
- New bridge crossing
- New culvert crossing
- Section Breaks (A to F)
- Existing Lattice Pylon - Not Affected
- Existing Gantry - Not Affected
- Existing Gantry - To be Dismantled
- Indicative New Gantry

**Project infrastructure**

- Existing substation
- Proposed substation area
- Indicative construction compounds
- Indicative cable sealing end compounds
- Indicative stringing areas
- Indicative working areas
- Indicative visibility splays
- Indicative access swathe
- EA Main Rivers
- When river levels are normal (Dry day)
- When there is also flooding from rivers (Wet day)

Notes

This drawing is scaled at paper size A3, therefore any prints taken at smaller sizes will affect accuracy of the measurement units and should not be scaled against.



Coordinate System: British National Grid
Sheet X Centroid Coordinate: 464,313.68 Sheet Y Centroid Coordinate: 451,918.16

0 250 500 1,000
Meters



| Issue | Date | Remarks | Drawn | Checked | Approved |
|---|---|---|---|---|---|
| B | 28/07/23 | For Deadline Six | BERNB | DIMMR | CHADC |
| A | 1 Nov 2022 | For DCO Submission | COLLJ | DIMMR | CHADC |

Title

5.4.9, ES CHAPTER 9
HYDROLOGY
FIGURE 9.10(B)
RESERVOIR FLOOD EXTENTS

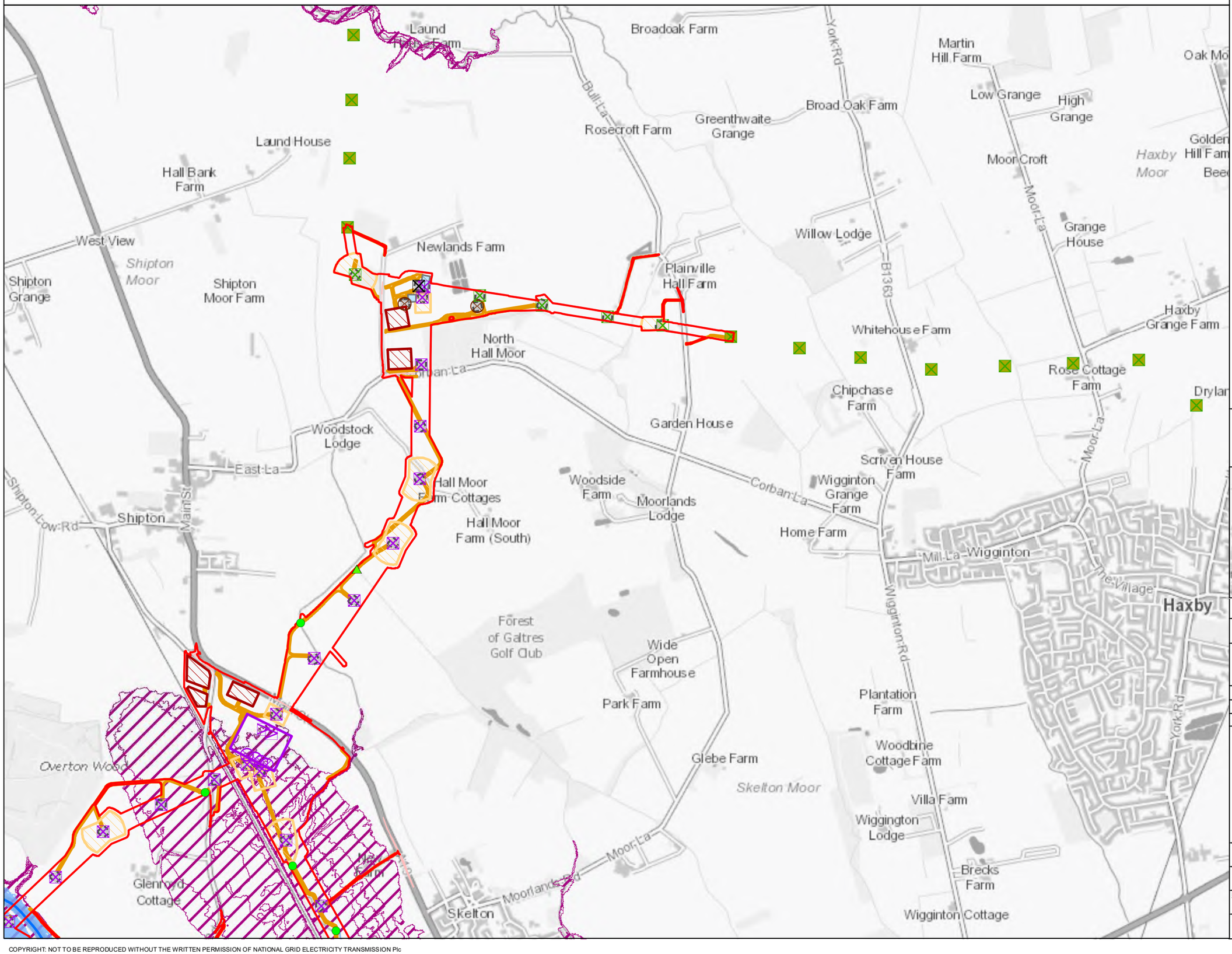
nationalgrid

Figure Number
FIGURE 9.10(B)

Drawing Reference
806503-WOOD-0227 B

| Scale | Sheet Size | Sheet | Issue |
|---|---|---|---|
| 1:20,000 | A3 | SHEET 1 OF 10 | B |

National Grid (Yorkshire Green Energy Enablement Project) Order
5.4.9, ES Chapter 9 Hydrology Figures
Figure 9.10(B) Reservoir Flood Extents: Section B




## Legend

- Order Limits

**Watercourse crossings**

- Existing crossing
- New bridge crossing
- New culvert crossing
- Section Breaks (A to F)
- Existing Lattice Pylon - To be Modified
- Existing Lattice Pylon - Not Affected
- Existing Lattice Pylon - To be Dismantled
- Indicative New Lattice Pylon
- Indicative New Gantry
- Indicative New Full Line Tension Gantry
- Indicative Temporary Pylon or Mast

**Project infrastructure**

- Existing substation
- Proposed substation area
- Indicative construction compounds
- Indicative cable sealing end compounds
- Indicative stringing areas
- Indicative working areas
- Indicative visibility splays
- Indicative access swathe
- EA Main Rivers
- When river levels are normal (Dry day)
- When there is also flooding from rivers (Wet day)

Notes

This drawing is scaled at paper size A3, therefore any prints taken at smaller sizes will affect accuracy of the measurement units and should not be scaled against.

Coordinate System: British National Grid
Sheet X Centroid Coordinate: 457,691.99 Sheet Y Centroid Coordinate: 458,895.64

0 250 500 1,000 Meters



| Issue | Date | Remarks | Drawn | Checked | Approved |
|---|---|---|---|---|---|
| B | 28/07/23 | For DCO Deadline Six | BERNB | DIMMR | CHADC |
| A | 1 Nov 2022 | For DCO Submission | COLLJ | DIMMR | CHADC |

Title

5.4.9, ES CHAPTER 9
HYDROLOGY
FIGURE 9.10(B)
RESERVOIR FLOOD EXTENTS

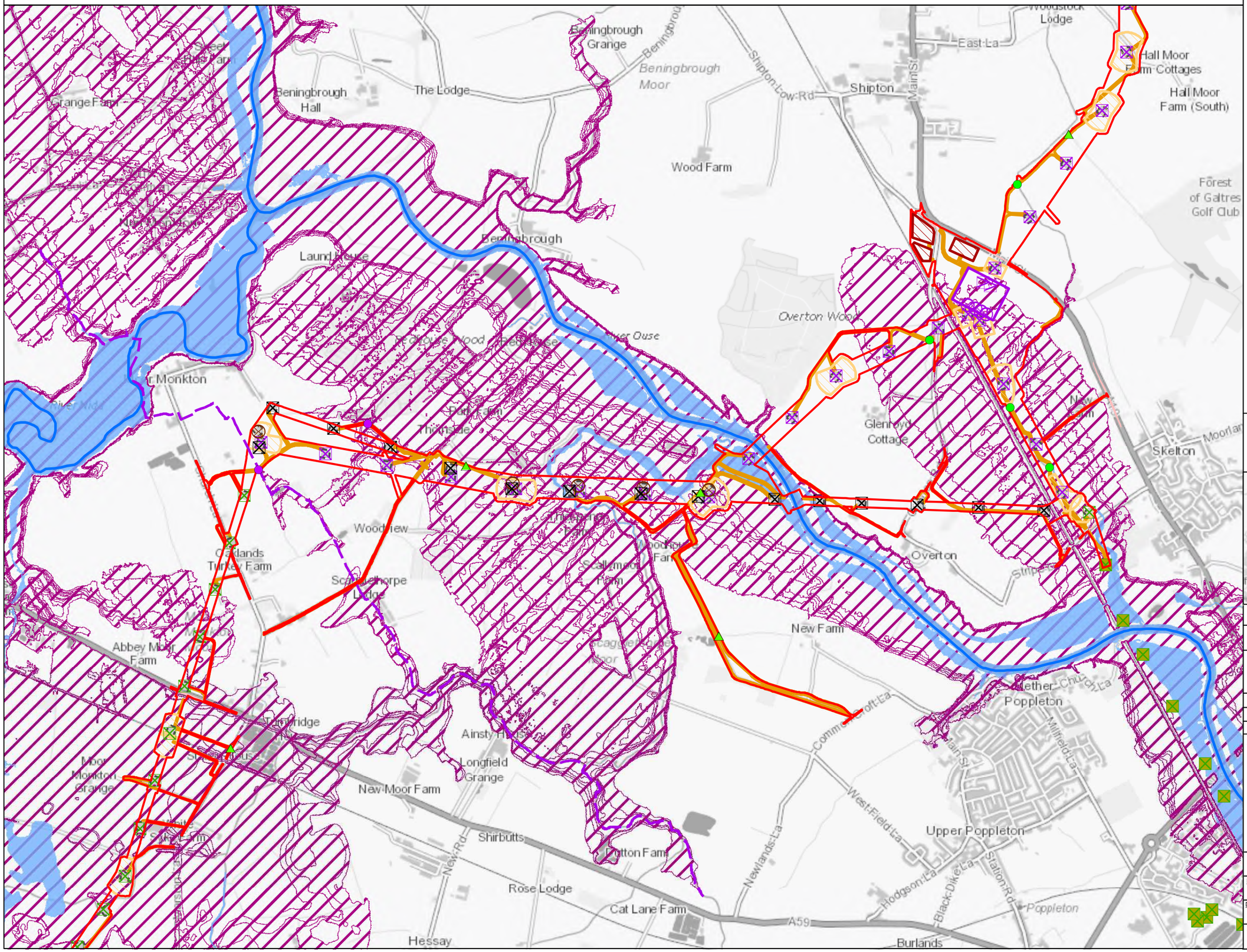
nationalgrid

Figure Number: FIGURE 9.10(B)

Drawing Reference: 806503-WOOD-0227 B

| Scale | Sheet Size | Sheet | Issue |
|---|---|---|---|
| 1:20,000 | A3 | SHEET 2 OF 10 | B |

National Grid (Yorkshire Green Energy Enablement Project) Order
5.4.9, ES Chapter 9 Hydrology Figures
Figure 9.10(B) Reservoir Flood Extents: Section B




## Legend

- Order Limits

**Watercourse crossings**

- Existing crossing
- New bridge crossing
- New culvert crossing
- Section Breaks (A to F)
- Existing Lattice Pylon - To be Modified
- Existing Lattice Pylon - Not Affected
- Existing Lattice Pylon - To be Dismantled
- Indicative New Lattice Pylon
- Indicative New Gantry
- Indicative New Full Line Tension Gantry
- Indicative Temporary Pylon or Mast

**Project infrastructure**

- Existing substation
- Proposed substation area
- Indicative construction compounds
- Indicative cable sealing end compounds
- Indicative stringing areas
- Indicative working areas
- Indicative visibility splays
- Indicative access swathe
- EA Main Rivers
- When river levels are normal (Dry day)
- When there is also flooding from rivers (Wet day)

Notes

This drawing is scaled at paper size A3, therefore any prints taken at smaller sizes will affect accuracy of the measurement units and should not be scaled against.

Coordinate System: British National Grid
Sheet X Centroid Coordinate: 453,530.19 Sheet Y Centroid Coordinate: 456,270.93

0 275 550 1,100 Meters



| Issue | Date | Remarks | Drawn | Checked | Approved |
|---|---|---|---|---|---|
| B | 28/07/23 | For Deadline Six | BERNB | DIMMR | CHADC |
| A | 1 Nov 2022 | For DCO Submission | COLLJ | DIMMR | CHADC |

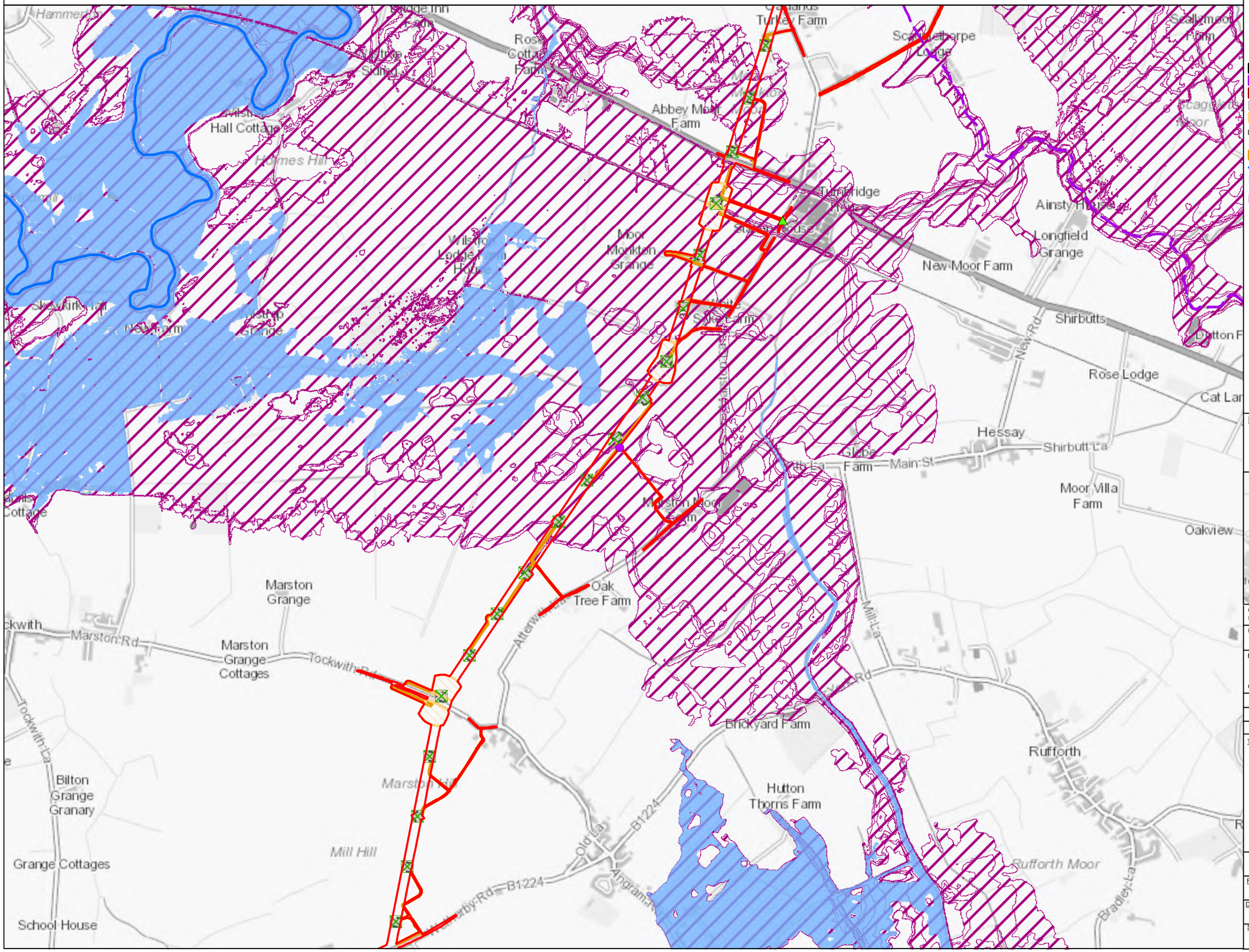
Title

5.4.9, ES CHAPTER 9
HYDROLOGY
FIGURE 9.10(B)
RESERVOIR FLOOD EXTENTS

nationalgrid

| Figure Number | | | |
|---|---|---|---|
| FIGURE 9.10(B) | | | |
| **Drawing Reference** | | | |
| 806503-WOOD-0227 B | | | |
| **Scale** | **Sheet Size** | **Sheet** | **Issue** |
| 1:22,000 | A3 | SHEET 3 OF 10 | B |

National Grid (Yorkshire Green Energy Enablement Project) Order
5.4.9, ES Chapter 9 Hydrology Figures
Figure 9.10(B) Reservoir Flood Extents: Section C




## Legend

- Order Limits

**Watercourse crossings**

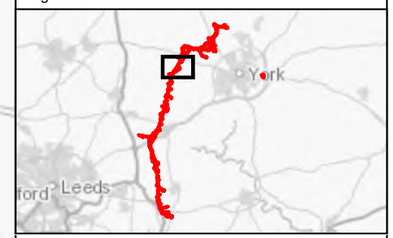
- Existing crossing
- New bridge crossing
- New culvert crossing
- Section Breaks (A to F)
- Existing Lattice Pylon - To be Modified

**Project infrastructure**

- Existing substation
- Proposed substation area
- Indicative construction compounds
- Indicative cable sealing end compounds
- Indicative stringing areas
- Indicative working areas
- Indicative visibility splays
- Indicative access swathe
- EA Main Rivers
- When river levels are normal (Dry day)
- When there is also flooding from rivers (Wet day)

Notes

This drawing is scaled at paper size A3, therefore any prints taken at smaller sizes will affect accuracy of the measurement units and should not be scaled against.




Coordinate System: British National Grid
Sheet X Centroid Coordinate: 450,259.87 Sheet Y Centroid Coordinate: 453,202.96

0 250 500 1,000 Meters



| Issue | Date | Remarks | Drawn | Checked | Approved |
|---|---|---|---|---|---|
| B | 28/07/23 | For Deadline Six | BERNB | DIMMR | CHADC |
| A | 1 Nov 2022 | For DCO Submission | COLLJ | DIMMR | CHADC |

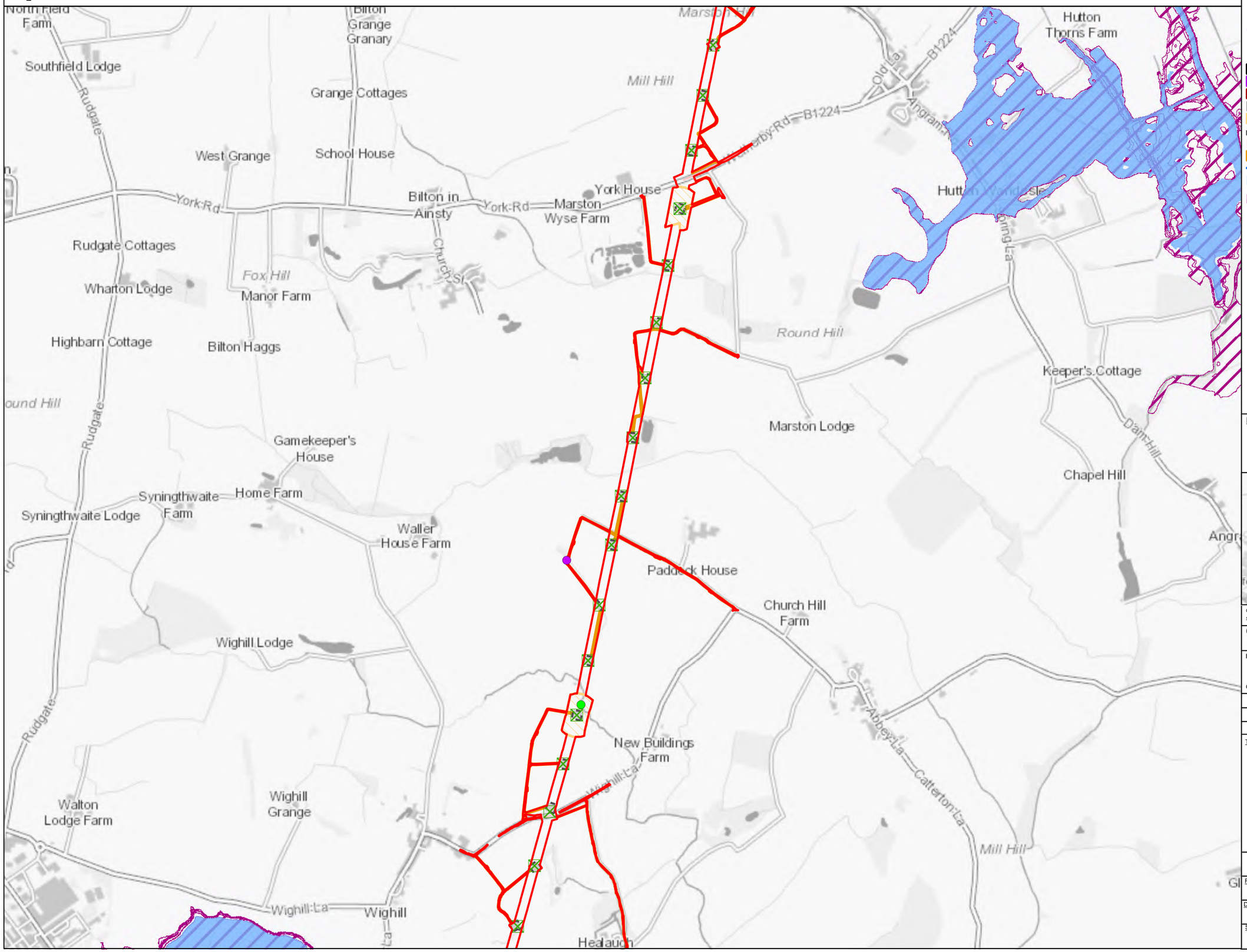
Title

5.4.9, ES CHAPTER 9
HYDROLOGY
FIGURE 9.10(B)
RESERVOIR FLOOD EXTENTS

nationalgrid

| Figure Number | | | |
|---|---|---|---|
| FIGURE 9.10(B) | | | |
| Drawing Reference | | | |
| 806503-WOOD-0227 B | | | |
| Scale | Sheet Size | Sheet | Issue |
| 1:20,000 | A3 | SHEET 4 OF 10 | B |

National Grid (Yorkshire Green Energy Enablement Project) Order
5.4.9, ES Chapter 9 Hydrology Figures
Figure 9.10(B) Reservoir Flood Extents: Section C




## Legend

- Order Limits

**Watercourse crossings**

- Existing crossing
- New bridge crossing
- New culvert crossing
- Section Breaks (A to F)
- Existing Lattice Pylon - To be Modified

**Project infrastructure**

- Existing substation
- Proposed substation area
- Indicative construction compounds
- Indicative cable sealing end compounds
- Indicative stringing areas
- Indicative working areas
- Indicative visibility splays
- Indicative access swathe
- EA Main Rivers
- When river levels are normal (Dry day)
- When there is also flooding from rivers (Wet day)

Notes

This drawing is scaled at paper size A3, therefore any prints taken at smaller sizes will affect accuracy of the measurement units and should not be scaled against.

Coordinate System: British National Grid
Sheet X Centroid Coordinate: 448,619.27 Sheet Y Centroid Coordinate: 448,933.45

0 250 500 1,000 Meters



| Issue | Date | Remarks | Drawn | Checked | Approved |
|---|---|---|---|---|---|
| B | 28/07/23 | For Deadline Six | BERNB | DIMMR | CHADC |
| A | 1 Nov 2022 | For DCO Submission | COLLJ | DIMMR | CHADC |

Title

5.4.9, ES CHAPTER 9
HYDROLOGY
FIGURE 9.10(B)
RESERVOIR FLOOD EXTENTS

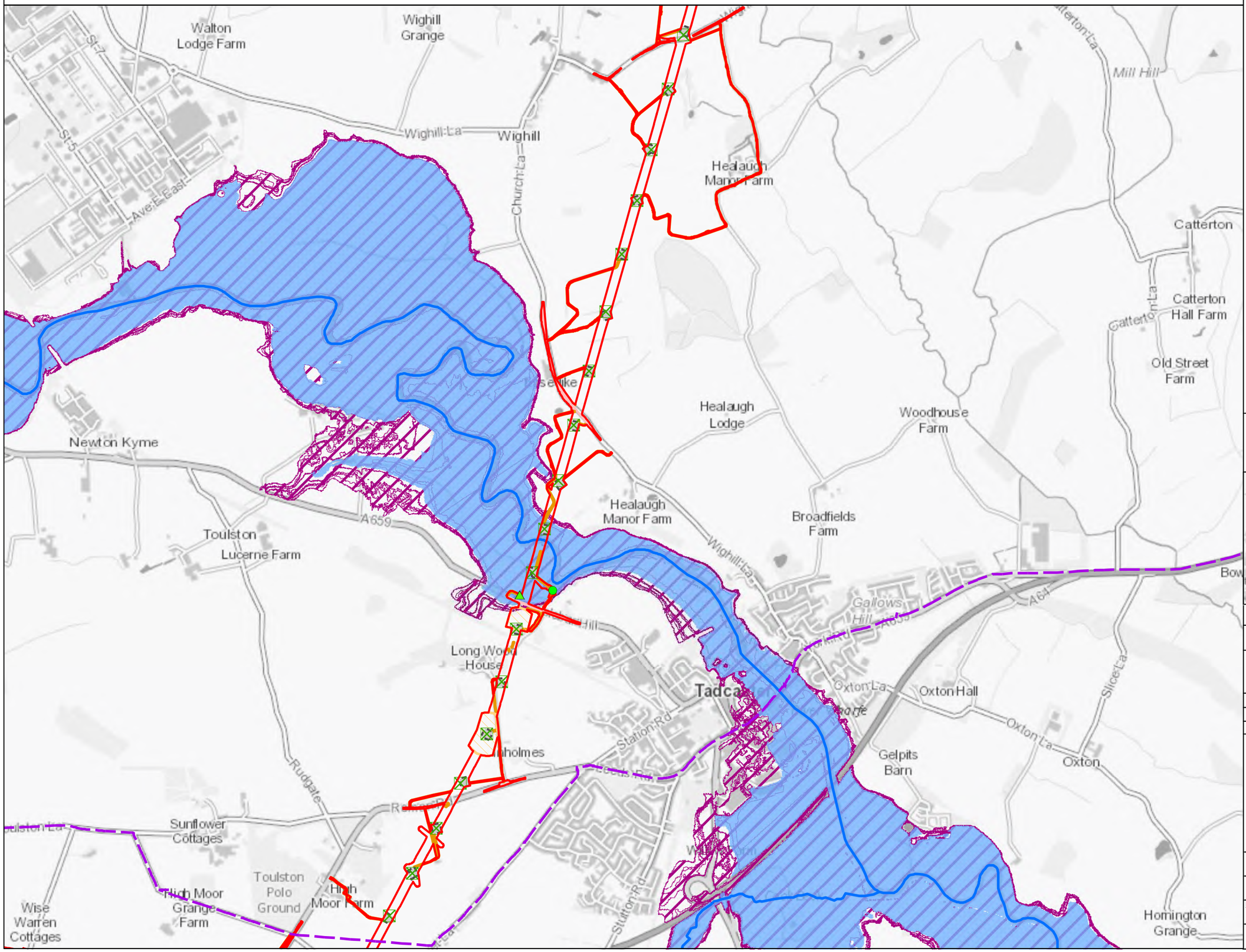
nationalgrid

Figure Number
FIGURE 9.10(B)

Drawing Reference
806503-WOOD-0227 B

| Scale | Sheet Size | Sheet | Issue |
|---|---|---|---|
| 1:20,000 | A3 | SHEET 5 OF 10 | B |

National Grid (Yorkshire Green Energy Enablement Project) Order
5.4.9, ES Chapter 9 Hydrology Figures
Figure 9.10(B) Reservoir Flood Extents: Section C




## Legend

- Order Limits

**Watercourse crossings**

- Existing crossing
- New bridge crossing
- New culvert crossing
- Section Breaks (A to F)
- Existing Lattice Pylon - To be Modified

**Project infrastructure**

- Existing substation
- Proposed substation area
- Indicative construction compounds
- Indicative cable sealing end compounds
- Indicative stringing areas
- Indicative working areas
- Indicative visibility splays
- Indicative access swathe
- EA Main Rivers
- When river levels are normal (Dry day)
- When there is also flooding from rivers (Wet day)

Notes

This drawing is scaled at paper size A3, therefore any prints taken at smaller sizes will affect accuracy of the measurement units and should not be scaled against.

Coordinate System: British National Grid
Sheet X Centroid Coordinate: 447,884.76 Sheet Y Centroid Coordinate: 444,641.53

0 250 500 1,000 Meters



| Issue | Date | Remarks | Drawn | Checked | Approved |
|---|---|---|---|---|---|
| B | 28/07/23 | For Deadline Six | BERNB | DIMMR | CHADC |
| A | 1 Nov 2022 | For DCO Submission | COLLJ | DIMMR | CHADC |

Title

5.4.9, ES CHAPTER 9
HYDROLOGY
FIGURE 9.10(B)
RESERVOIR FLOOD EXTENTS

nationalgrid

Figure Number: FIGURE 9.10(B)

Drawing Reference: 806503-WOOD-0227 B

| Scale | Sheet Size | Sheet | Issue |
|---|---|---|---|
| 1:20,000 | A3 | SHEET 6 OF 10 | B |

National Grid (Yorkshire Green Energy Enablement Project) Order
5.4.9, ES Chapter 9 Hydrology Figures
Figure 9.10(B) Reservoir Flood Extents: Section D

## Legend

- Order Limits

**Watercourse crossings**

- Existing crossing
- New bridge crossing
- New culvert crossing
- Section Breaks (A to F)
- Existing Lattice Pylon - To be Modified
- Existing Lattice Pylon - Not Affected
- Existing Lattice Pylon - To be Dismantled
- Indicative New Lattice Pylon
- Indicative Temporary Pylon or Mast

**Project infrastructure**

- Existing substation
- Proposed substation area
- Indicative construction compounds
- Indicative cable sealing end compounds
- Indicative stringing areas
- Indicative working areas
- Indicative visibility splays
- Indicative access swathe
- EA Main Rivers
- When river levels are normal (Dry day)
- When there is also flooding from rivers (Wet day)

Notes

This drawing is scaled at paper size A3, therefore any prints taken at smaller sizes will affect accuracy of the measurement units and should not be scaled against.

Coordinate System: British National Grid
Sheet X Centroid Coordinate: 446,128.73 Sheet Y Centroid Coordinate: 441,402.51

0 250 500 1,000 Meters



| Issue | Date | Remarks | Drawn | Checked | Approved |
|---|---|---|---|---|---|
| B | 28/07/23 | For Deadline Six | BERNB | DIMMR | CHADC |
| A | 1 Nov 2022 | For DCO Submission | COLLJ | DIMMR | CHADC |

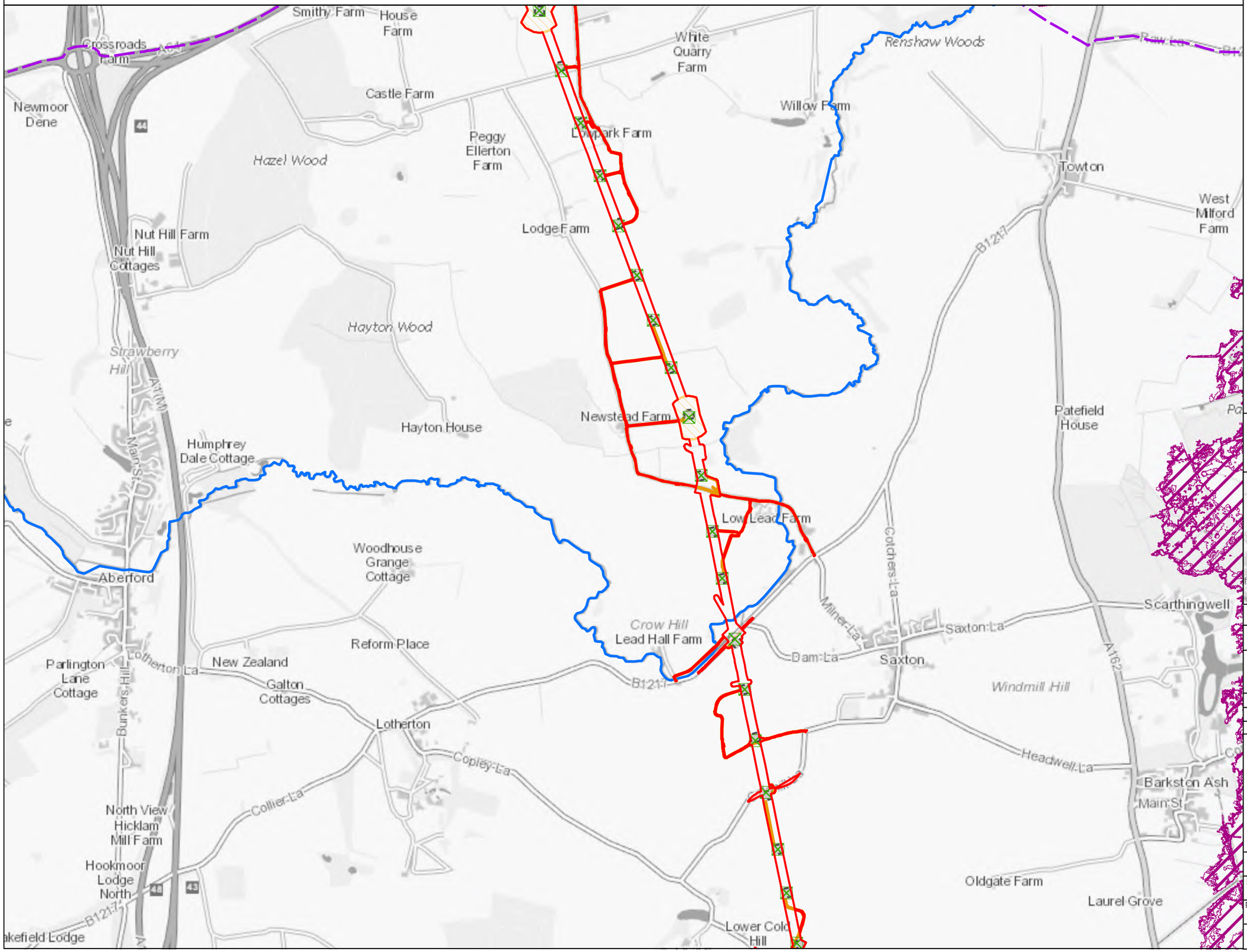
Title

5.4.9, ES CHAPTER 9
HYDROLOGY
FIGURE 9.10(B)
RESERVOIR FLOOD EXTENTS

nationalgrid

| Figure Number | Drawing Reference | | |
|---|---|---|---|
| FIGURE 9.10(B) | 806503-WOOD-0227 B | | |
| **Scale** | **Sheet Size** | **Sheet** | **Issue** |
| 1:20,000 | A3 | SHEET 7 OF 10 | B |

National Grid (Yorkshire Green Energy Enablement Project) Order
5.4.9, ES Chapter 9 Hydrology Figures
Figure 9.10(B) Reservoir Flood Extents: Section E




## Legend

- Order Limits

**Watercourse crossings**

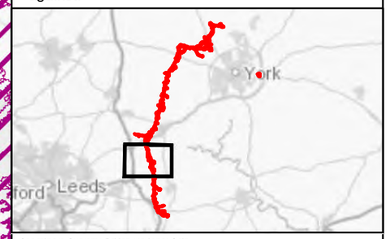
- Existing crossing
- New bridge crossing
- New culvert crossing
- Section Breaks (A to F)
- Existing Lattice Pylon - To be Modified

**Project infrastructure**

- Existing substation
- Proposed substation area
- Indicative construction compounds
- Indicative cable sealing end compounds
- Indicative stringing areas
- Indicative working areas
- Indicative visibility splays
- Indicative access swathe
- EA Main Rivers
- When river levels are normal (Dry day)
- When there is also flooding from rivers (Wet day)

Notes

This drawing is scaled at paper size A3, therefore any prints taken at smaller sizes will affect accuracy of the measurement units and should not be scaled against.




Coordinate System: British National Grid
Sheet X Centroid Coordinate: 446,089.19 Sheet Y Centroid Coordinate: 437,844.58

0 250 500 1,000 Meters



| Issue | Date | Remarks | Drawn | Checked | Approved |
|---|---|---|---|---|---|
| B | 28/07/23 | For Deadline Six | BERNB | DIMMR | CHADC |
| A | 1 Nov 2022 | For DCO Submission | COLLJ | DIMMR | CHADC |

Title

5.4.9, ES CHAPTER 9
HYDROLOGY
FIGURE 9.10(B)
RESERVOIR FLOOD EXTENTS

nationalgrid

Figure Number
FIGURE 9.10(B)

Drawing Reference
806503-WOOD-0227 B

| Scale | Sheet Size | Sheet | Issue |
|---|---|---|---|
| 1:20,000 | A3 | SHEET 8 OF 10 | B |

National Grid (Yorkshire Green Energy Enablement Project) Order
5.4.9, ES Chapter 9 Hydrology Figures
Figure 9.10(B) Reservoir Flood Extents: Section E

## Legend

- Order Limits

**Watercourse crossings**

- Existing crossing
- New bridge crossing
- New culvert crossing
- Section Breaks (A to F)
- Existing Lattice Pylon - To be Modified

**Project infrastructure**

- Existing substation
- Proposed substation area
- Indicative construction compounds
- Indicative cable sealing end compounds
- Indicative stringing areas
- Indicative working areas
- Indicative visibility splays
- Indicative access swathe
- EA Main Rivers
- When river levels are normal (Dry day)
- When there is also flooding from rivers (Wet day)

Notes

This drawing is scaled at paper size A3, therefore any prints taken at smaller sizes will affect accuracy of the measurement units and should not be scaled against.

Coordinate System: British National Grid
Sheet X Centroid Coordinate: 446,978.68 Sheet Y Centroid Coordinate: 432,685.59

0 250 500 1,000 Meters



| Issue | Date | Remarks | Drawn | Checked | Approved |
|---|---|---|---|---|---|
| B | 28/07/23 | For Deadline Six | BERNB | DIMMR | CHADC |
| A | 1 Nov 2022 | For DCO Submission | COLLJ | DIMMR | CHADC |

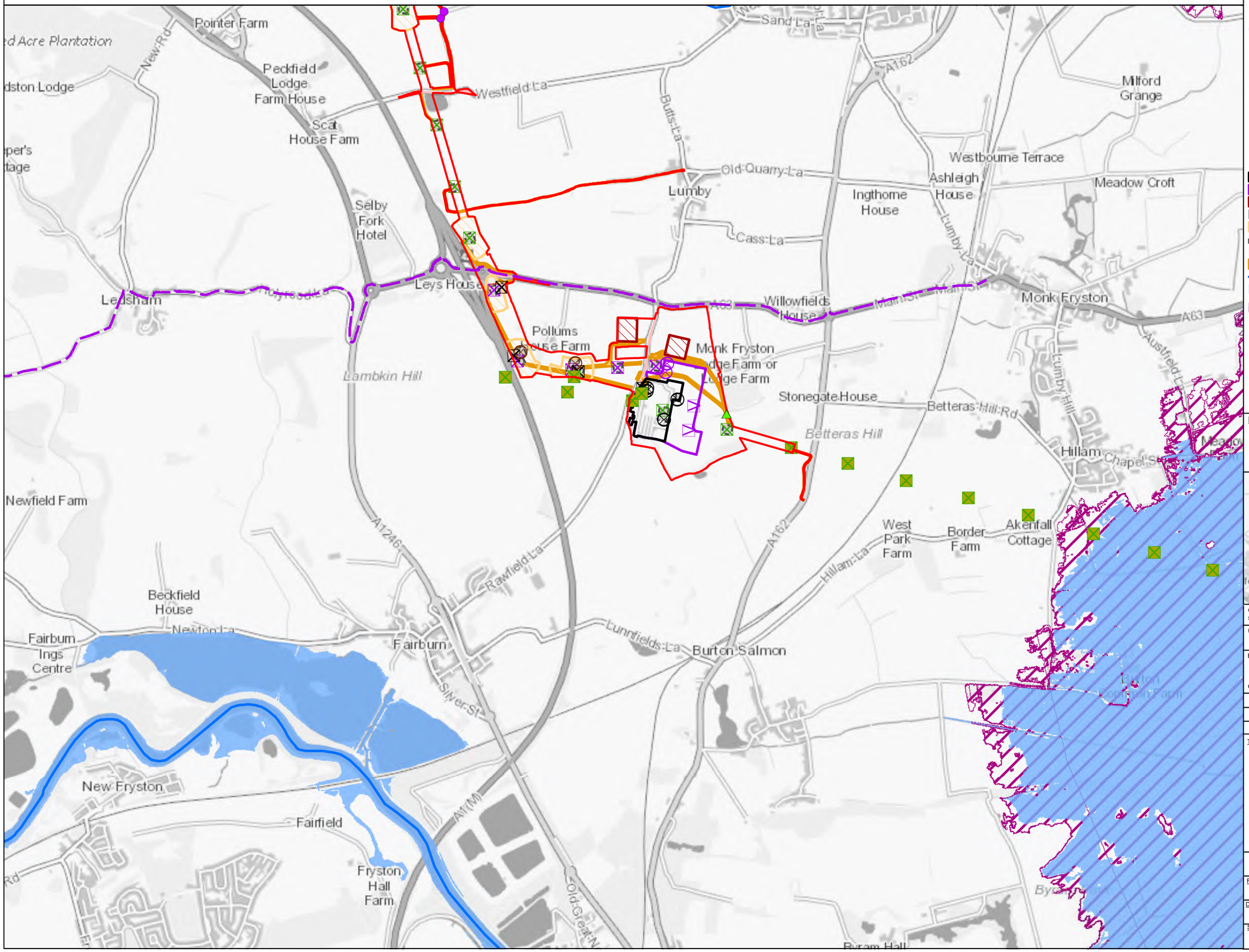
Title

5.4.9, ES CHAPTER 9
HYDROLOGY
FIGURE 9.10(B)
RESERVOIR FLOOD EXTENTS

nationalgrid

| Figure Number | Drawing Reference | | |
|---|---|---|---|
| FIGURE 9.10(B) | 806503-WOOD-0227 B | | |
| **Scale** | **Sheet Size** | **Sheet** | **Issue** |
| 1:20,000 | A3 | SHEET 9 OF 10 | B |

National Grid (Yorkshire Green Energy Enablement Project) Order
5.4.9, ES Chapter 9 Hydrology Figures
Figure 9.10(B) Reservoir Flood Extents: Section F




## Legend

- Order Limits

**Watercourse crossings**

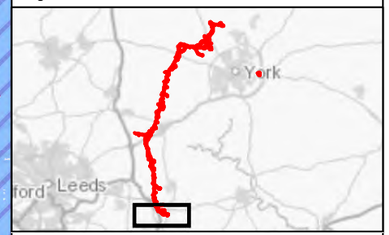
- Existing crossing
- New bridge crossing
- New culvert crossing
- Section Breaks (A to F)
- Existing Lattice Pylon - To be Modified
- Existing Lattice Pylon - Not Affected
- Existing Lattice Pylon - To be Dismantled
- Existing Gantry - To be Dismantled
- Indicative New Lattice Pylon
- Indicative New Gantry
- Indicative New Full Line Tension Gantry
- Indicative Temporary Pylon or Mast

**Project infrastructure**

- Existing substation
- Proposed substation area
- Indicative construction compounds
- Indicative cable sealing end compounds
- Indicative stringing areas
- Indicative working areas
- Indicative visibility splays
- Indicative access swathe
- EA Main Rivers
- When river levels are normal (Dry day)
- When there is also flooding from rivers (Wet day)

Notes

This drawing is scaled at paper size A3, therefore any prints taken at smaller sizes will affect accuracy of the measurement units and should not be scaled against.




Coordinate System : British National Grid
Sheet X Centroid Coordinate: 448,283.25 Sheet Y Centroid Coordinate: 428,752.10

0 250 500 1,000 Meters



| Issue | Date | Remarks | Drawn | Checked | Approved |
|---|---|---|---|---|---|
| B | 28/07/23 | For Deadline six | BERNB | DIMMR | CHADC |
| A | 1 Nov 2022 | For DCO Submission | COLLJ | DIMMR | CHADC |

Title

5.4.9, ES CHAPTER 9
HYDROLOGY
FIGURE 9.10(B)
RESERVOIR FLOOD EXTENTS

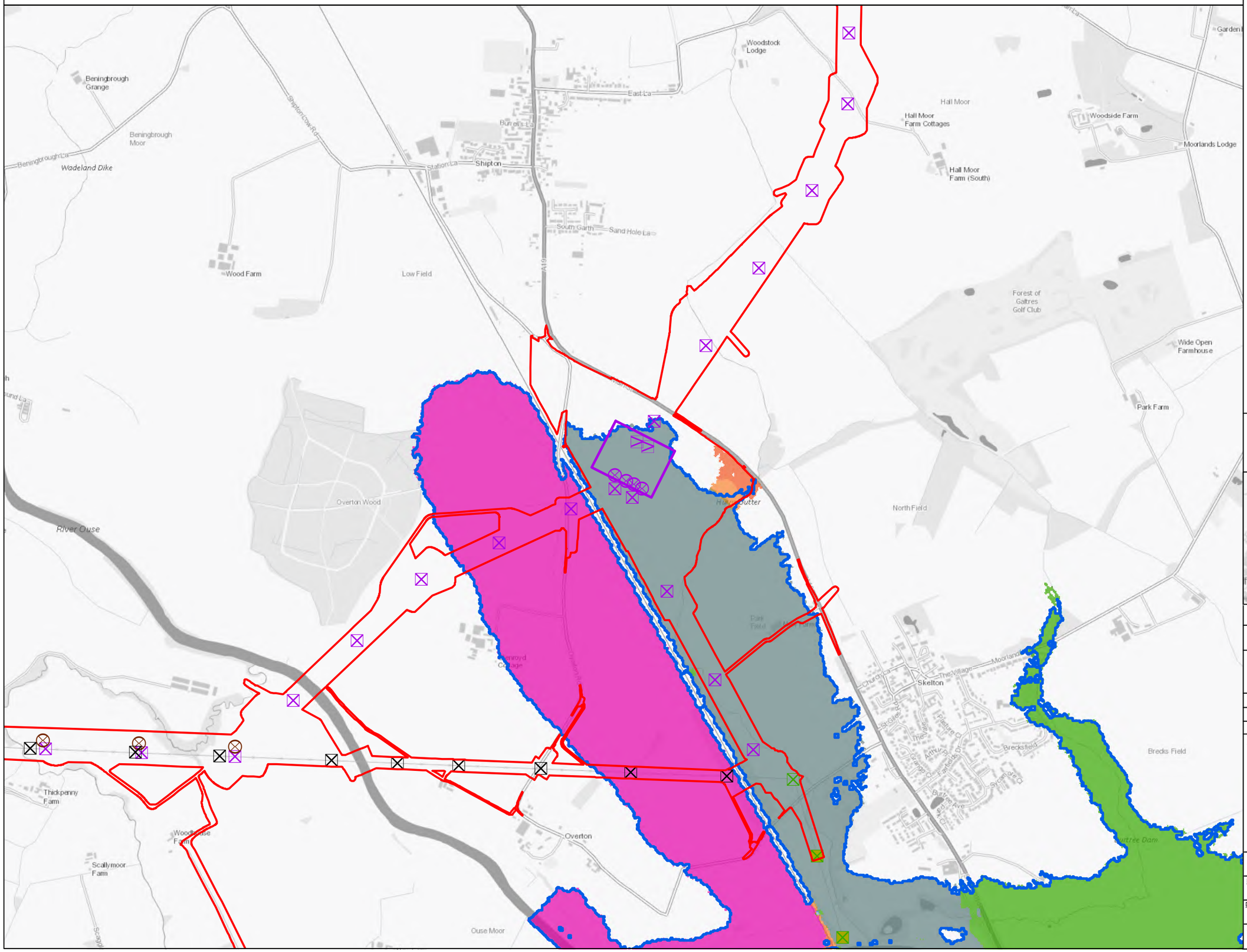
nationalgrid

Figure Number: FIGURE 9.10(B)

Drawing Reference: 806503-WOOD-0227 B

| Scale | Sheet Size | Sheet | Issue |
|---|---|---|---|
| 1:20,000 | A3 | SHEET 10 OF 10 | B |

National Grid (Yorkshire Green Energy Enablement Project) Order
5.4.9, ES Chapter 9 Hydrology Figures
Figure 9.11 Overton Substation Flood Modelling




## Legend

- Order Limits
- Proposed substation area
- Existing Lattice Pylon - To be Modified
- Existing Lattice Pylon - Not Affected
- Existing Lattice Pylon - To be Dismantled
- Indicative New Lattice Pylon
- Indicative New Gantry
- Indicative New Full Line Tension Gantry
- Indicative Temporary Pylon or Mast

**0.1% AEP +34% CC flood elevations**

- <= 13.00
- 13.00 - 13.25
- 13.25 - 13.30
- 13.30 - 13.35
- 13.35 - 13.40
- 13.40 - 13.45
- 13.45 - 13.50
- 13.50 - 13.75
- 13.75 - 14.00
- > 14.00
- **0.1% AEP +34% CC flood elevations (No Hurns Gutter inflow)**

AEP = Annual Exceedance Probability. Where no flood risk is mapped the fluvial flood risk is categorised as 'Very Low'.

Notes

This drawing is scaled at paper size A3, therefore any prints taken at smaller sizes will affect accuracy of the measurement units and should not be scaled against.

Coordinate System: British National Grid
Sheet X Centroid Coordinate: 455,661.00 Sheet Y Centroid Coordinate: 457,309.00

0 187.5 375 750 Meters



| Issue | Date | Remarks | Drawn | Checked | Approved |
|---|---|---|---|---|---|
| A | 1 Nov 2022 | For DCO Submission | COLLJ | DIMMR | CHADC |

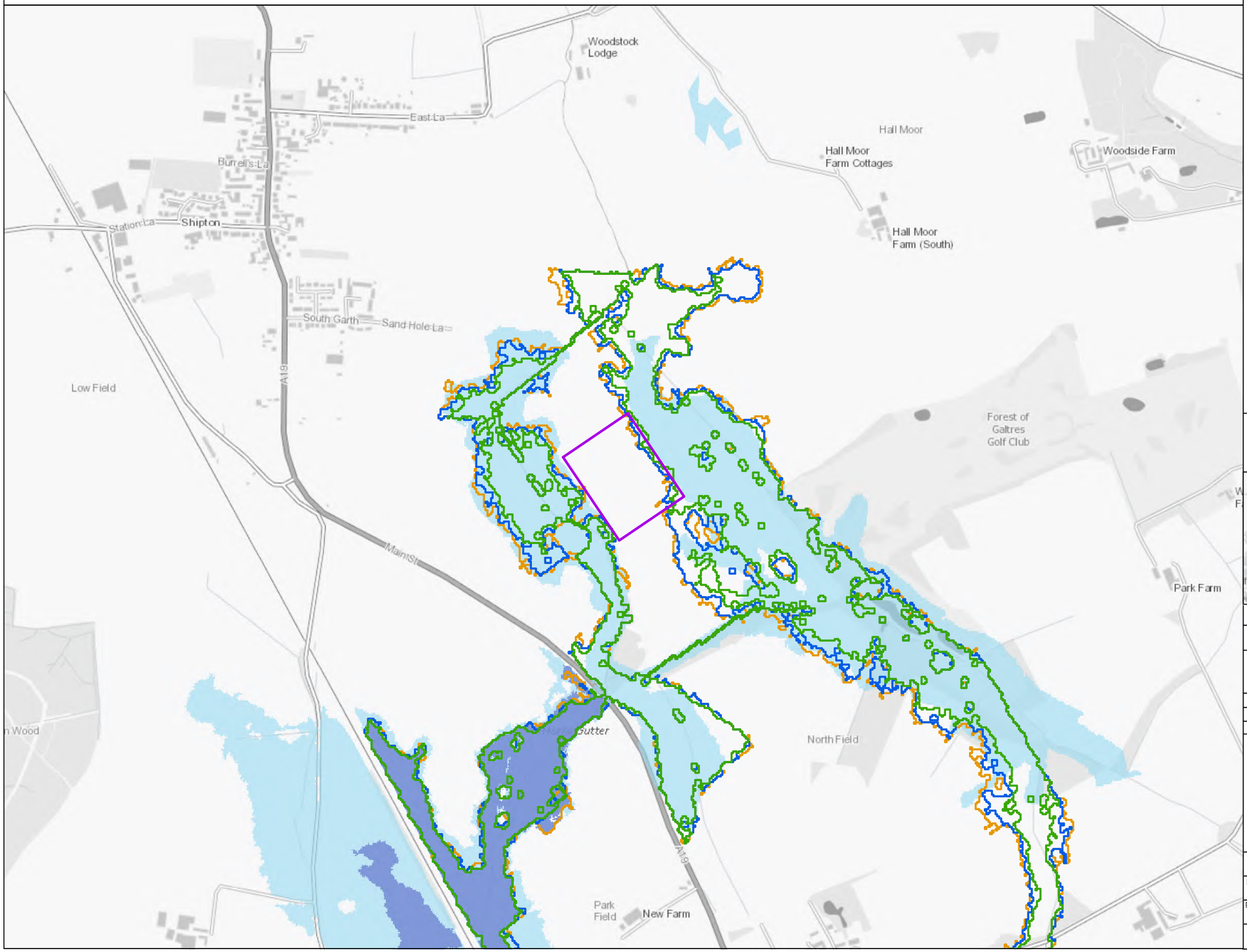
Title

5.4.9, ES CHAPTER 9
HYDROLOGY
FIGURE 9.11
OVERTON SUBSTATION
FLOOD MODELLING

nationalgrid

| Figure Number | Drawing Reference | | |
|---|---|---|---|
| FIGURE 9.11 | 806503-WOOD-0228 | | |
| **Scale** | **Sheet Size** | **Sheet** | **Issue** |
| 1:15,000 | A3 | SHEET 1 OF 1 | A |

National Grid (Yorkshire Green Energy Enablement Project) Order
5.4.9, ES Chapter 9 Hydrology Figures
Figure 9.12 Alternative Overton Substation Flood Modelling



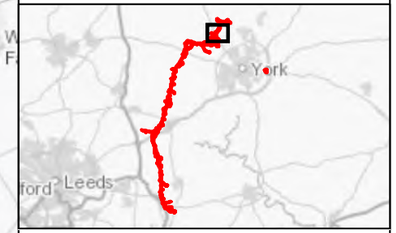

## Legend

- Alternative substation area
- 1% AEP Flood Extent
- 0.1% AEP Flood Extent
- 0.1% AEP + 34% CC Flood Extent
- Flood Zone 3 (1% AEP)
- Flood Zone 2 (0.1% AEP)

AEP = Annual Exceedance Probability. Where no flood risk is mapped the fluvial flood risk is categorised as 'Very Low'.

Notes

This drawing is scaled at paper size A3, therefore any prints taken at smaller sizes will affect accuracy of the measurement units and should not be scaled against.




Coordinate System: British National Grid
Sheet X Centroid Coordinate: 456,269.22 Sheet Y Centroid Coordinate: 457,905.66

0 125 250 500 Meters



| Issue | Date | Remarks | Drawn | Checked | Approved |
|---|---|---|---|---|---|
| A | 1 Nov 2022 | For DCO Submission | COLLJ | DIMMR | CHADC |

Title

5.4.9, ES CHAPTER 9
HYDROLOGY
FIGURE 9.12
ALTERNATIVE OVERTON
SUBSTATION FLOOD MODELLING

nationalgrid

Figure Number
FIGURE 9.12

Drawing Reference
806503-WOOD-0229

| Scale | Sheet Size | Sheet | Issue |
|---|---|---|---|
| 1:10,000 | A3 | SHEET 1 OF 1 | A |

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

Registered in England and Wales
No. 4031152