

Environmental Impact Assessment Report

Appendix B13 Cultural Heritage

Grangemouth Flood Protection Scheme 2024
Falkirk Council

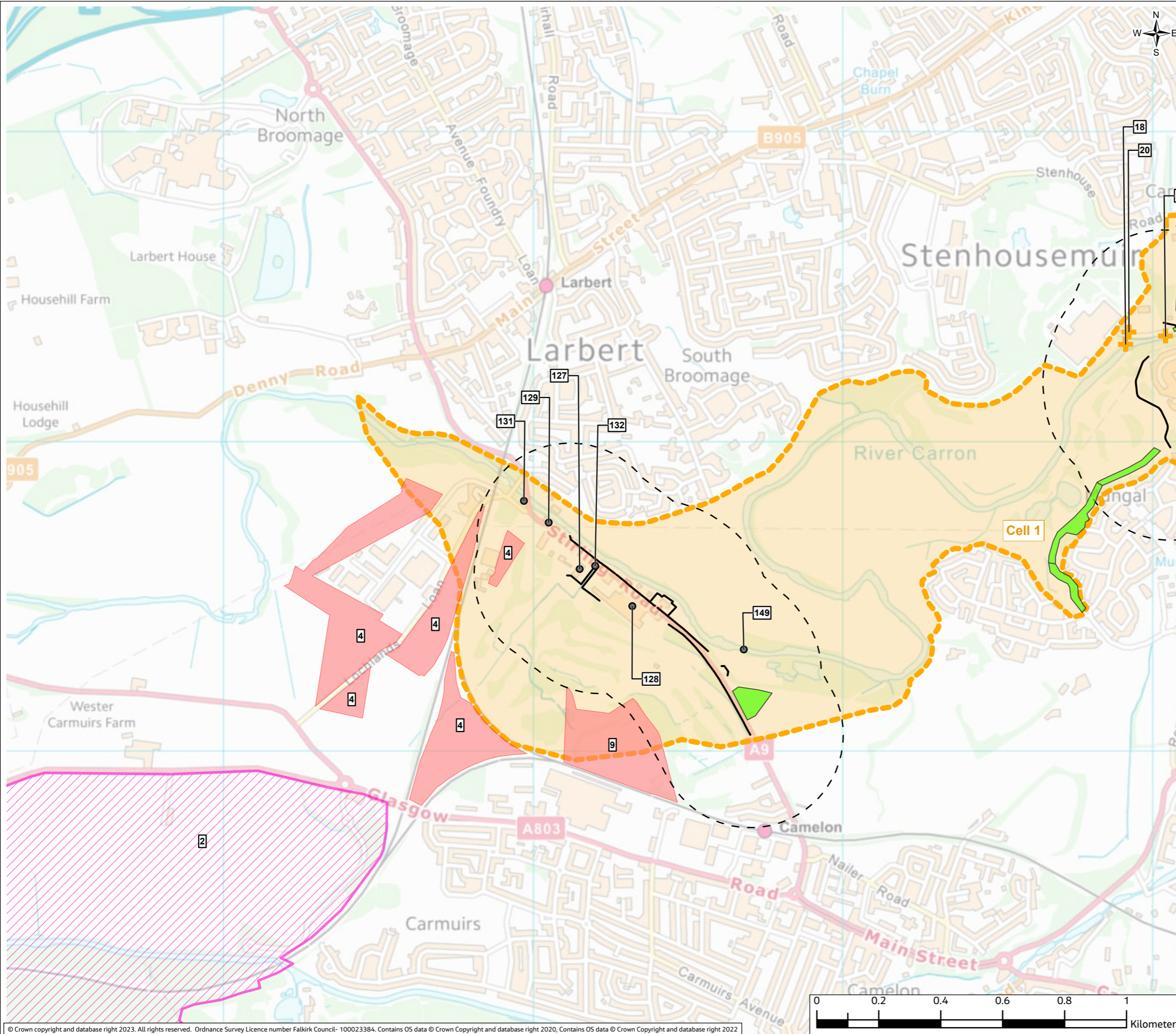


GRANGEMOUTH
Flood Protection Scheme
Protecting the heart of our communities

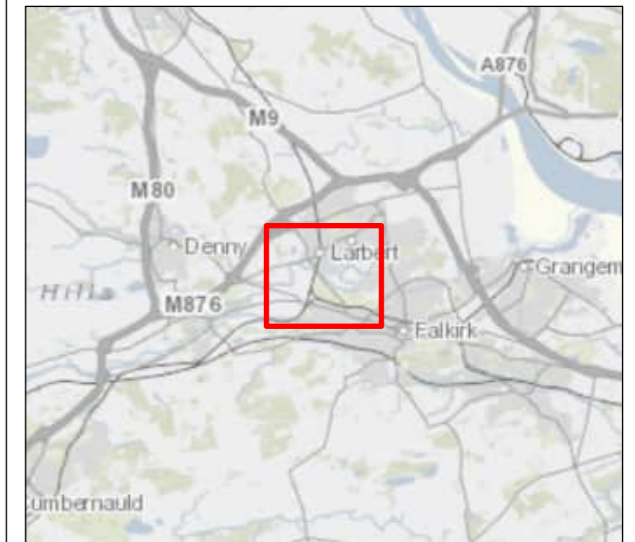
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FIGURE B13.1a



- Legend**
- Direct Defences
 - ┌┐ 300m Study Area
 - Non-Designated Asset
 - █ Scheduled Monument
 - █ World Heritage Site
 - █ World Heritage Site Buffer Zone
 - █ Site Compounds
- Listed Building**
- █ Category A
 - █ Category B
 - █ Category C
- Flood Cell Areas**
- █ 1
 - █ 2
 - █ 3
 - █ 4
 - █ 5
 - █ 6



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 Central Boulevard, Larbert, FK5 4RU
 grangemouthfps@falkirk.gov.uk

Project: **Grangemouth
 Flood Protection Scheme**

Drawing Title: **HERITAGE ASSETS**

SHEET: 1 OF 6

Drawing Status: **S8-SUITABLE FOR STATUTORY CONSENT**

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Jacobs No.: **B2386100**

Drawing No.: **Figure B13.1a**

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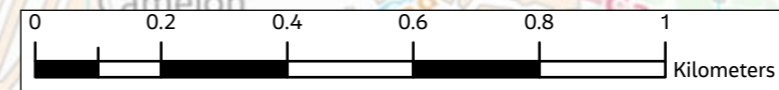
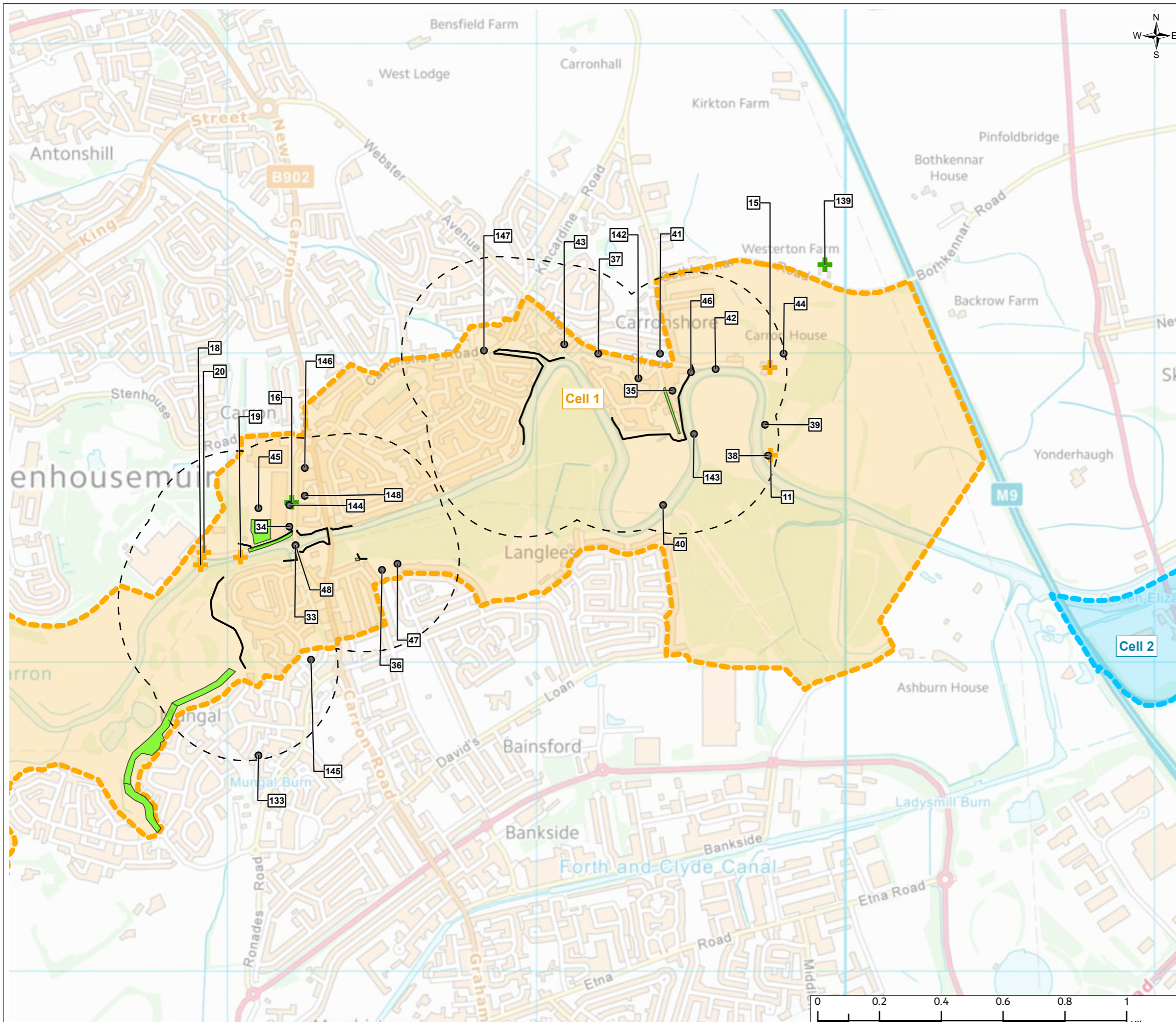
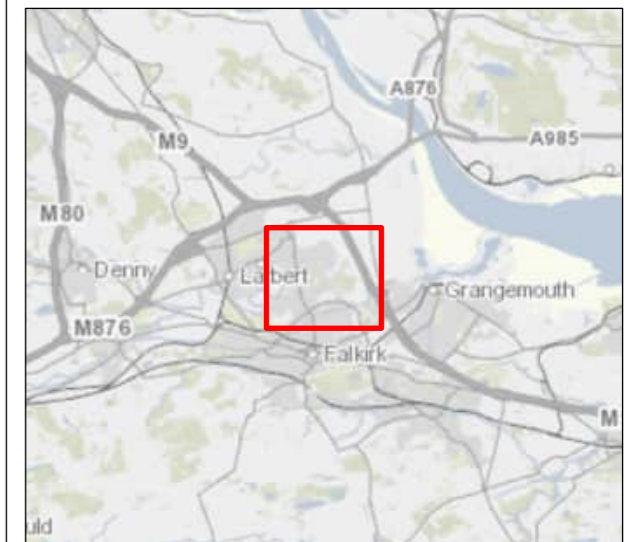


FIGURE B13.1b



- Legend**
- Direct Defences
 - 300m Study Area
 - Non-Designated Asset
 - Scheduled Monument
 - World Heritage Site
 - World Heritage Site Buffer Zone
 - Site Compounds
- Listed Building**
- Category A
 - Category B
 - Category C
- Flood Cell Areas**
- 1
 - 2
 - 3
 - 4
 - 5
 - 6



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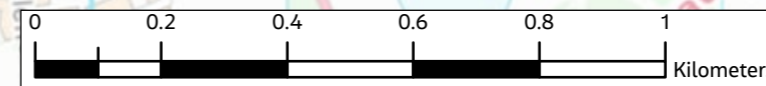
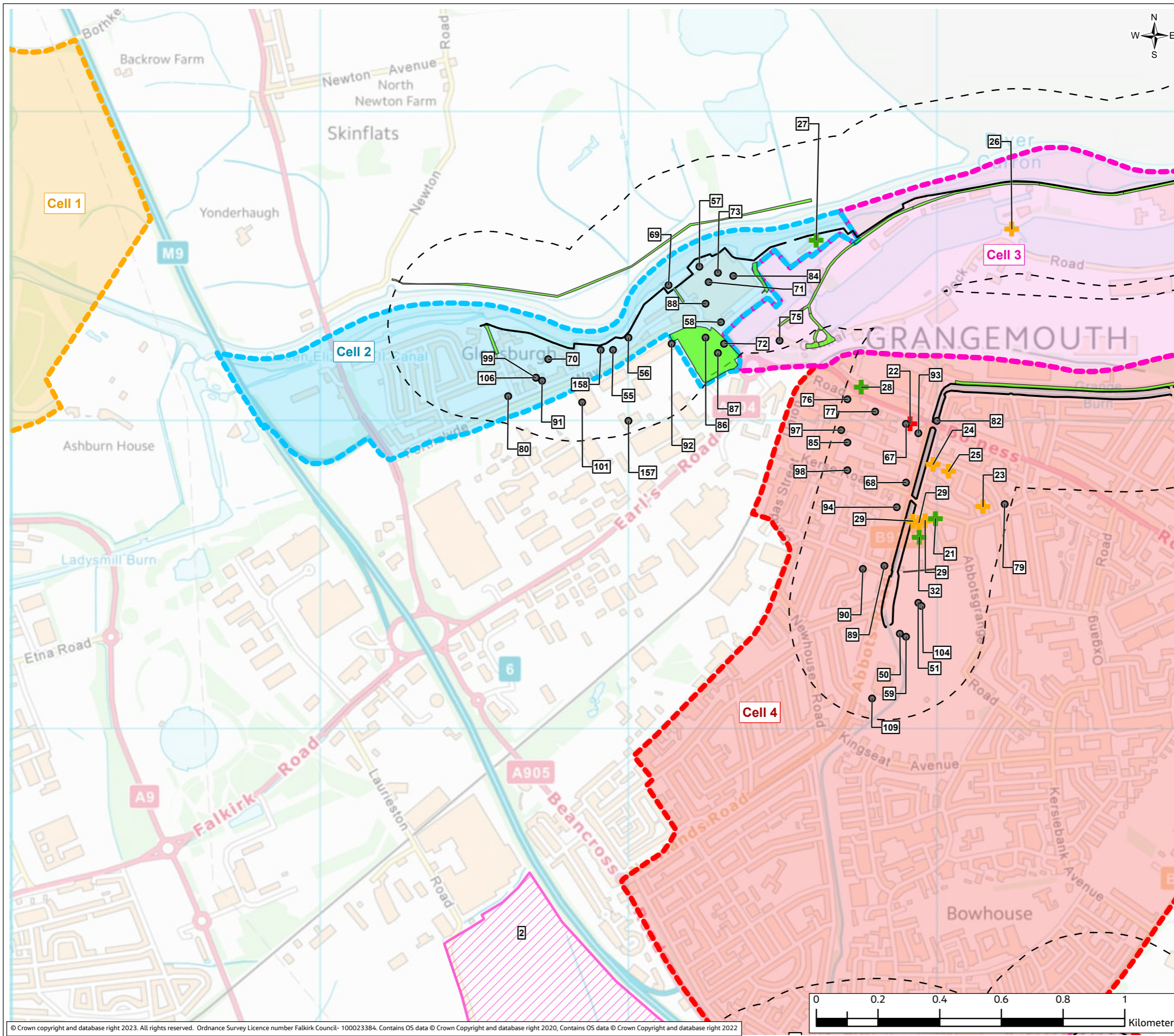


FIGURE B13.1c



- Legend**
- Direct Defences
 - 300m Study Area
 - Non-Designated Asset
 - Scheduled Monument
 - World Heritage Site
 - World Heritage Site Buffer Zone
 - Site Compounds
- Listed Building**
- ⊕ Category A
 - ⊕ Category B
 - ⊕ Category C
- Flood Cell Areas**
- 1
 - 2
 - 3
 - 4
 - 5
 - 6



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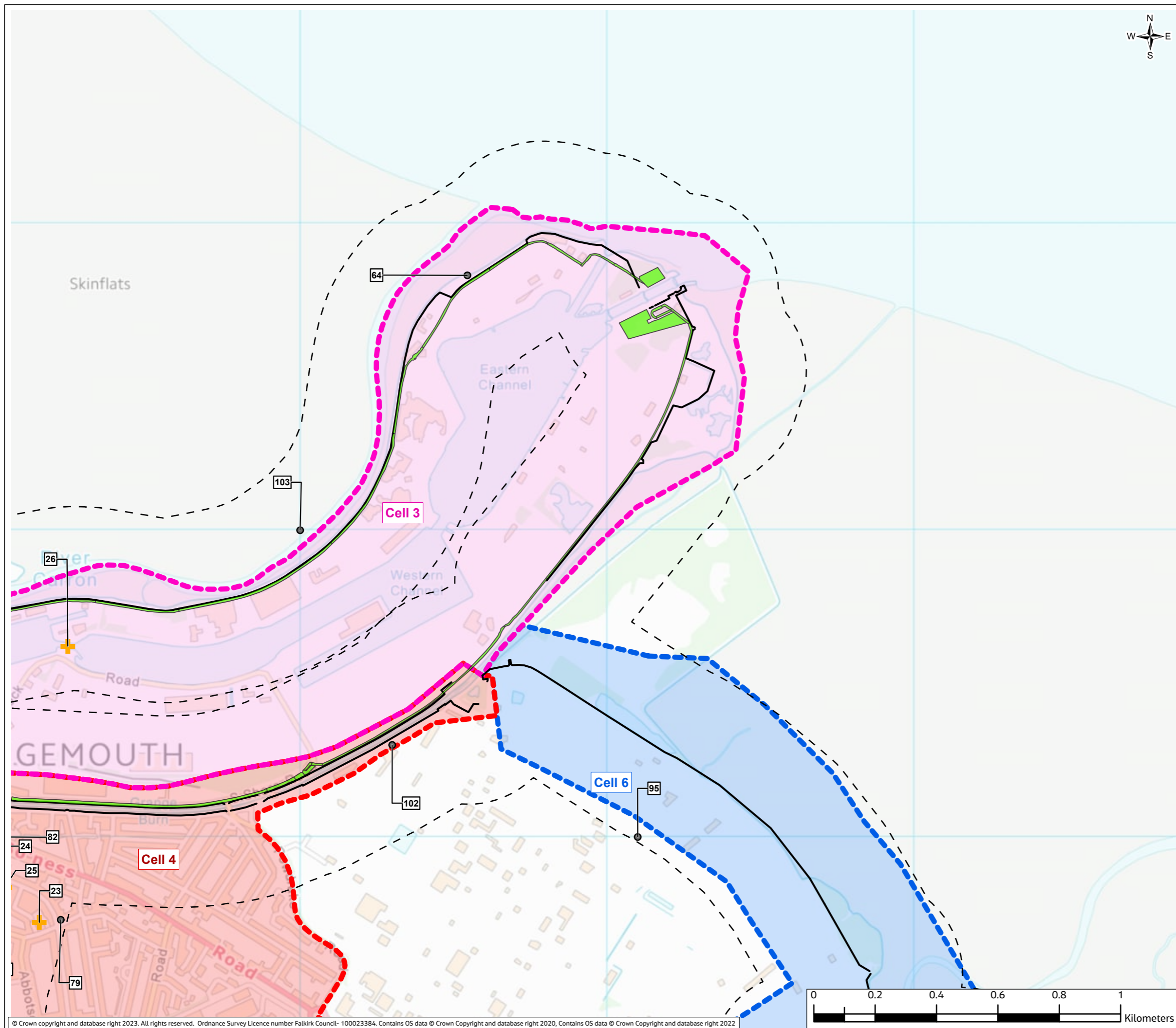
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FIGURE B13.1d



Legend

- Direct Defences
- 300m Study Area
- Non-Designated Asset
- Scheduled Monument
- World Heritage Site
- World Heritage Site Buffer Zone
- Site Compounds

Listed Building

- ⊕ Category A
- ⊕ Category B
- ⊕ Category C

Flood Cell Areas

- 1
- 2
- 3
- 4
- 5
- 6



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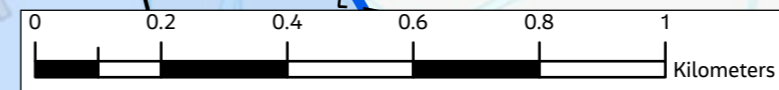
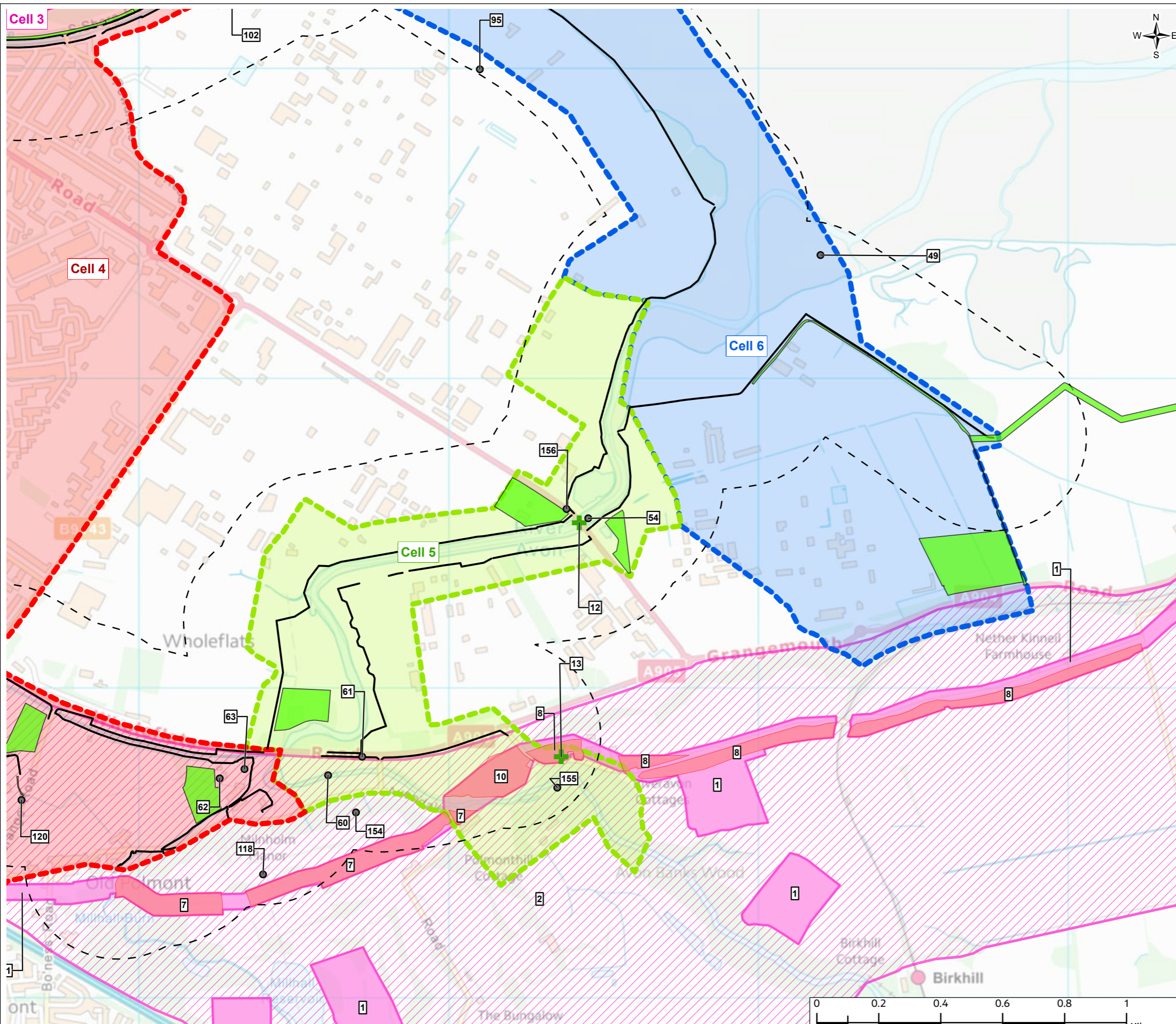


FIGURE B13.1e



- Legend**
- Direct Defences
 - 300m Study Area
 - Non-Designated Asset
 - Scheduled Monument
 - World Heritage Site
 - World Heritage Site Buffer Zone
 - Site Compounds
- Listed Building**
- ✚ Category A
 - ✚ Category B
 - ✚ Category C
- Flood Cell Areas**
- 1
 - 2
 - 3
 - 4
 - 5
 - 6



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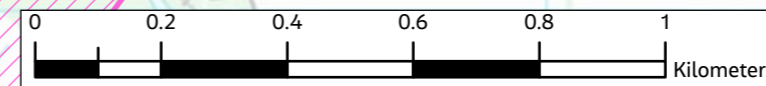
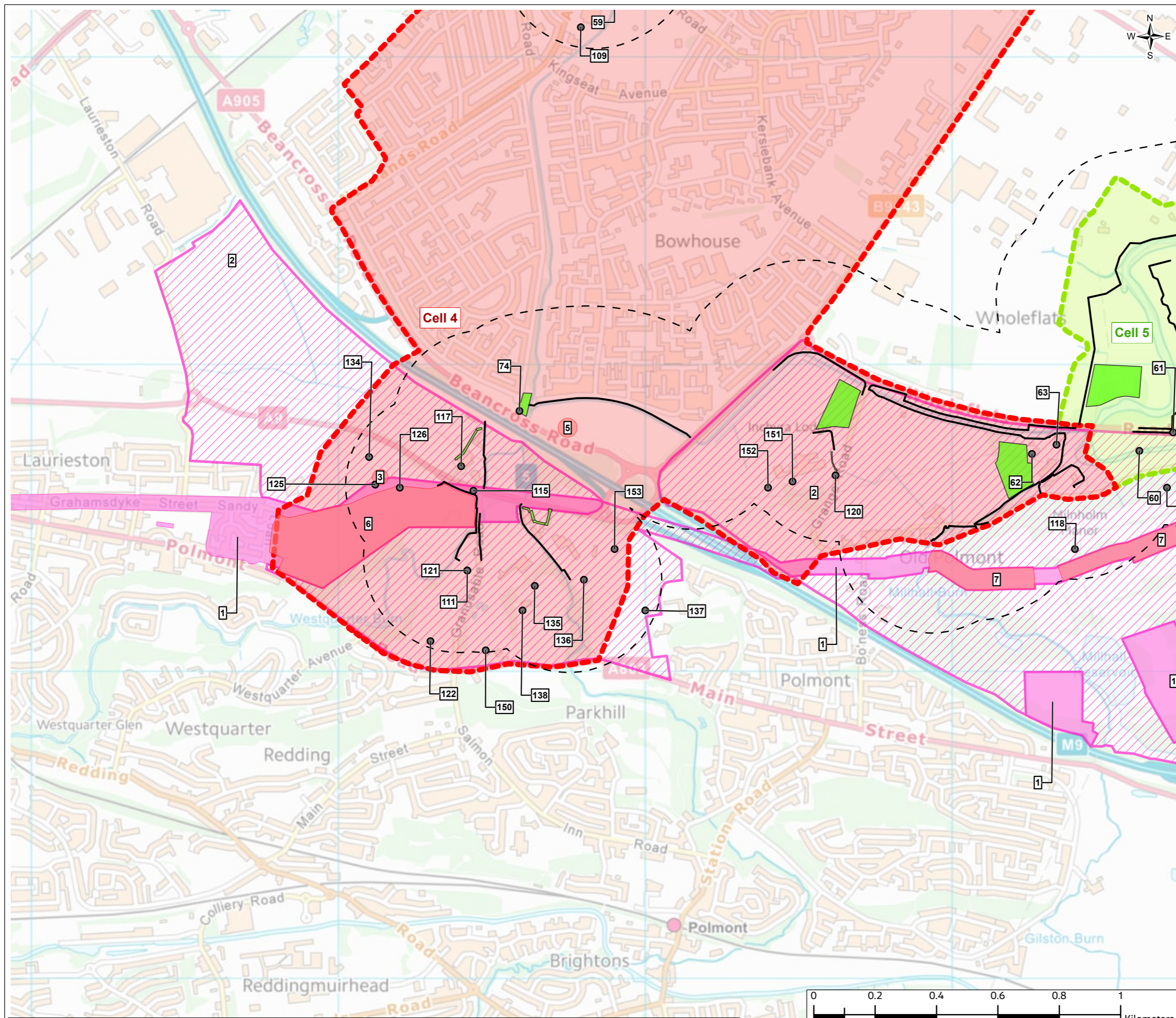


FIGURE B13.1f



Legend

- Direct Defences
- 300m Study Area
- Non-Designated Asset
- Scheduled Monument
- World Heritage Site
- World Heritage Site Buffer Zone
- Site Compounds

Listed Building

- ⊕ Category A
- ⊕ Category B
- ⊕ Category C

Flood Cell Areas

- 1
- 2
- 3
- 4
- 5
- 6



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Drawing Title

HERITAGE ASSETS

SHEET: 6 OF 6

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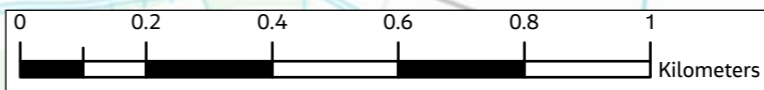
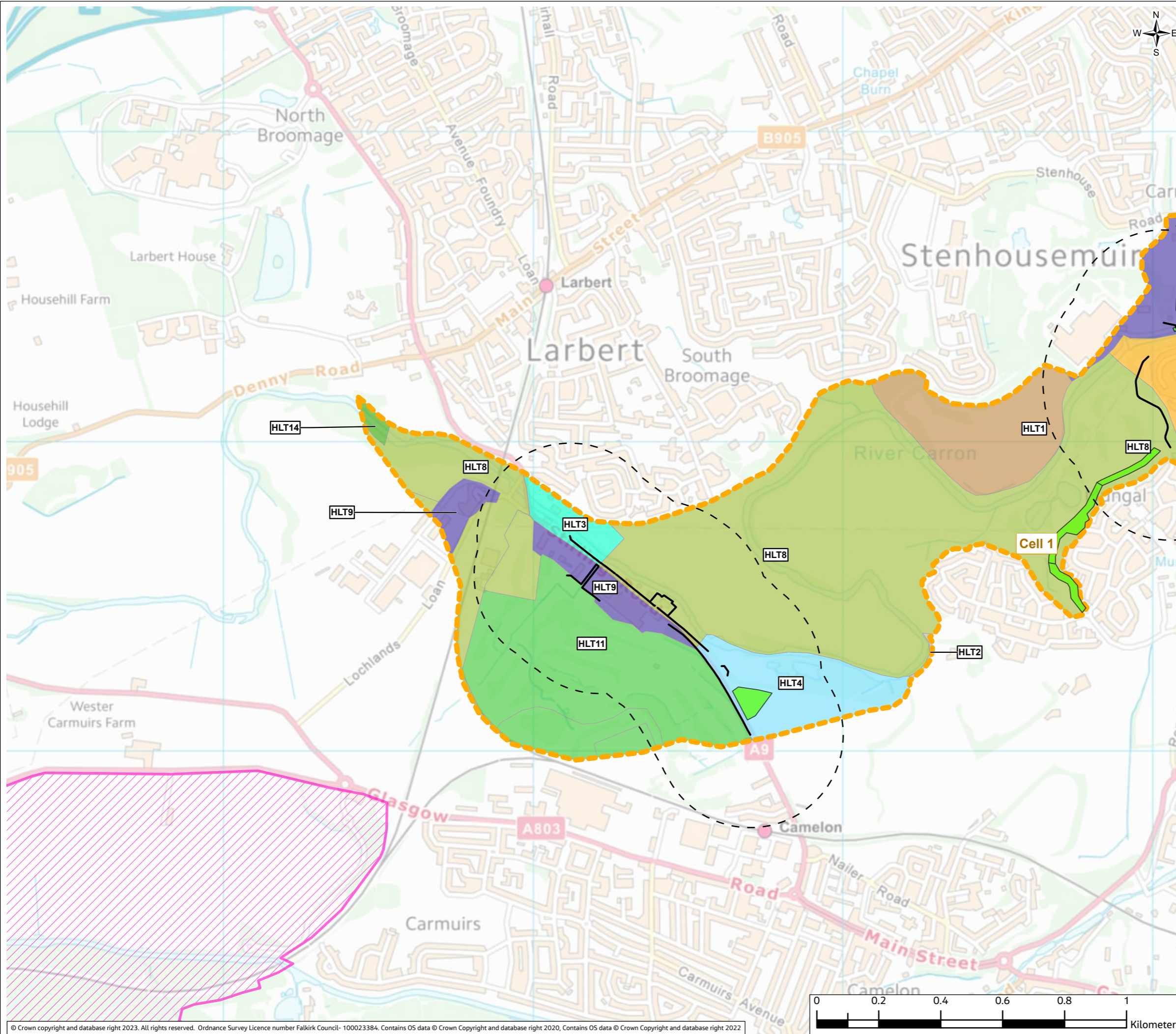


FIGURE B13.2a



Legend

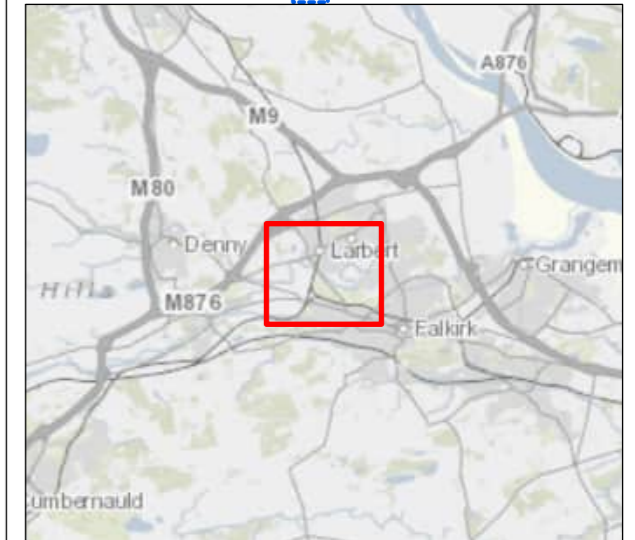
- Direct Defences
- - - 300m Study Area
- World Heritage Site
- World Heritage Site Buffer Zone
- Site Compounds

Historic Landscape Area

- HLT1 - Late 20th Century-Present - Landfill Site
- HLT2 - 18th Century-Present - Cemetery
- HLT3 - Late 20th Century-Present - Industrial-scale Farming Unit
- HLT4 - 19th Century-Present - Recreation Area
- HLT7 - 19th Century-Present - Urban Area
- HLT8 - 18th Century-Present - Rectilinear Fields and Farms
- HLT9 - 19th Century-Present - Industrial or Commercial Area
- HLT11 - 19th Century-Present - Golf Course
- HLT14 - 18th-20th Century - Managed Woodland

Flood Cell Areas

- 1
- 2
- 3
- 4
- 5
- 6



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Project

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Drawing Title

HISTORIC LANDSCAPE TYPES

SHEET: 1 OF 6

Drawing Status

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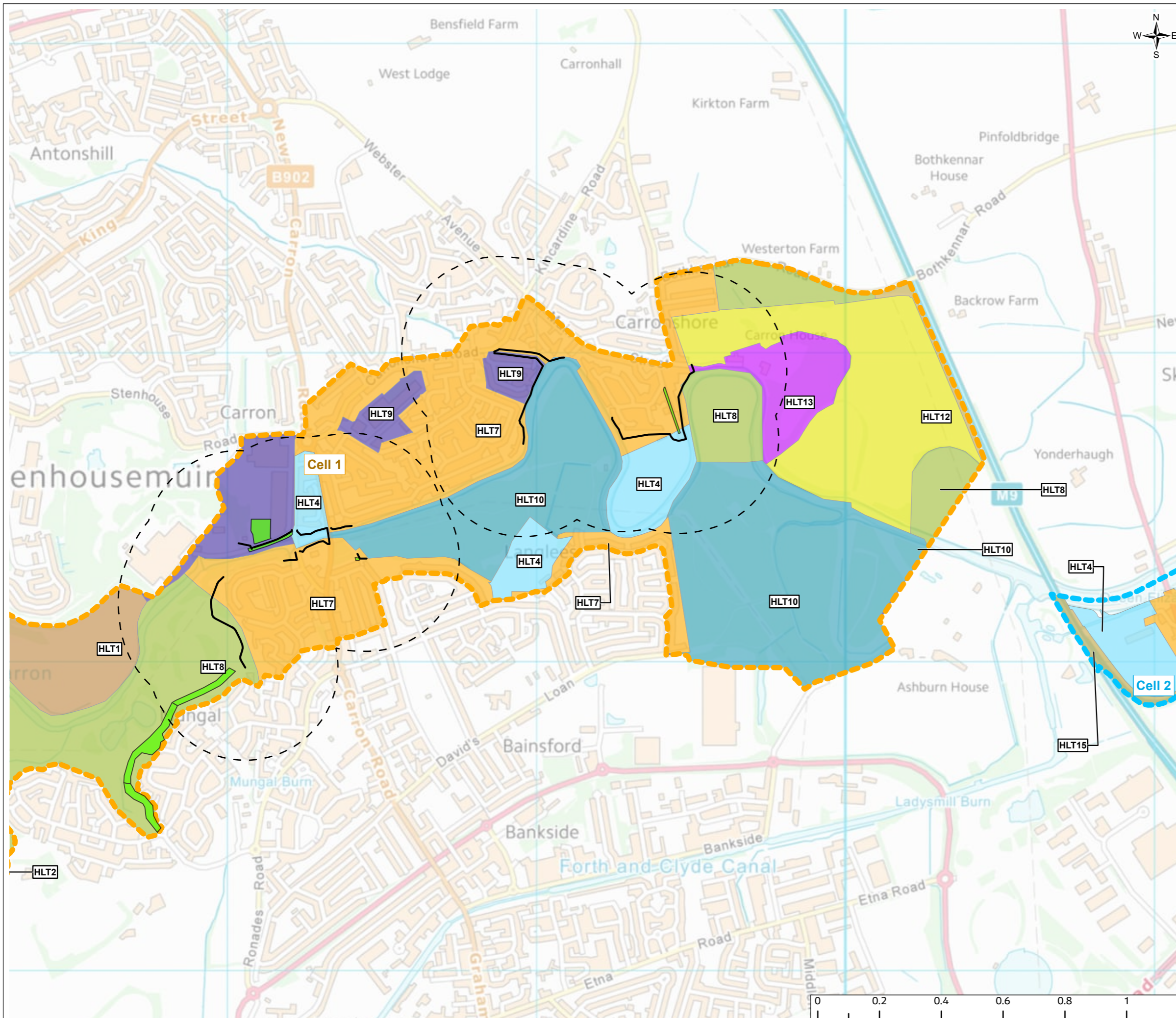
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FIGURE B13.2b



- Legend**
- Direct Defences
 - - - 300m Study Area
 - World Heritage Site
 - World Heritage Site Buffer Zone
 - Site Compounds
 - Historic Landscape Area**
 - HLT1 - Late 20th Century-Present - Landfill Site
 - HLT4 - 19th Century-Present - Recreation Area
 - HLT7 - 19th Century-Present - Urban Area
 - HLT8 - 18th Century-Present - Rectilinear Fields and Farms
 - HLT9 - 19th Century-Present - Industrial or Commercial Area
 - HLT10 - 20th Century-Present - Plantation
 - HLT12 - 19th Century-Present - Cultivated Former Parkland
 - HLT13 - 17th-20th Century - Designed Landscape
 - HLT15 - Late 20th Century-Present - Motorway
 - Flood Cell Areas**
 - 1
 - 2
 - 3
 - 4
 - 5
 - 6



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Drawing Title	HISTORIC LANDSCAPE TYPES
SHEET:	2 OF 6

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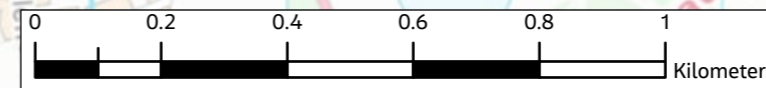
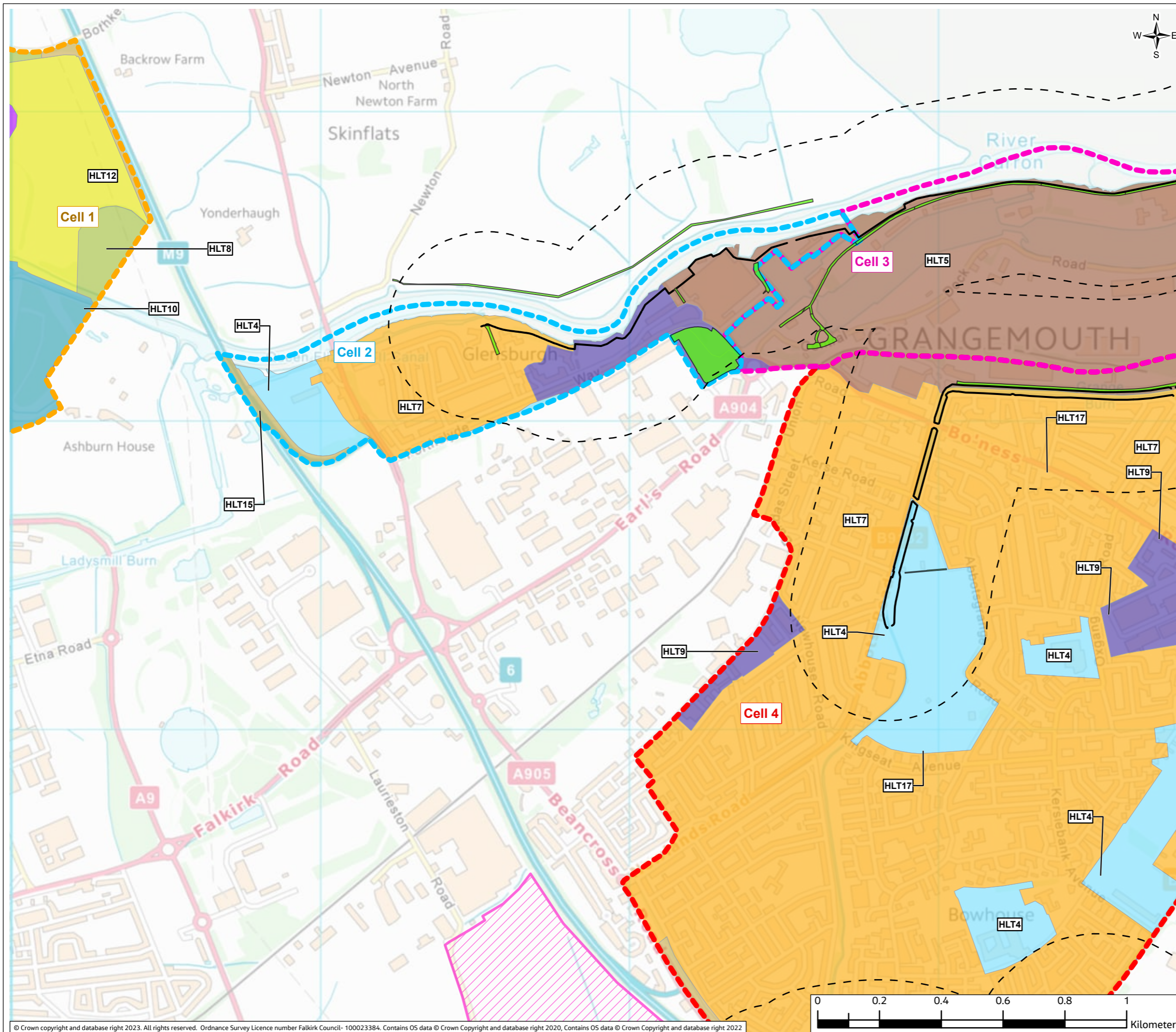


FIGURE B13.2c



- Legend**
- Direct Defences
 - - - 300m Study Area
 - World Heritage Site
 - World Heritage Site Buffer Zone
 - Site Compounds
 - Historic Landscape Area**
 - HLT4 - 19th Century - Present - Recreation Area
 - HLT5 - 19th Century - Present - Maritime Installation
 - HLT7 - 19th Century - Present - Urban Area
 - HLT8 - 18th Century - Present - Rectilinear Fields and Farms
 - HLT9 - 19th Century - Present - Industrial or Commercial Area
 - HLT10 - 20th Century - Present - Plantation
 - HLT12 - 19th Century - Present - Cultivated Former Parkland
 - HLT13 - 17th-20th Century - Designed Landscape
 - HLT15 - Late 20th Century - Present - Motorway
- Flood Cell Areas**
- 1
 - 2
 - 3
 - 4
 - 5
 - 6



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Drawing Title	HISTORIC LANDSCAPE TYPES
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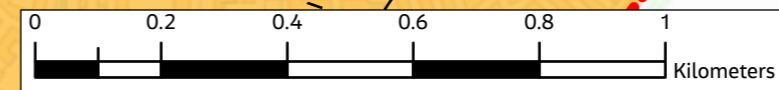
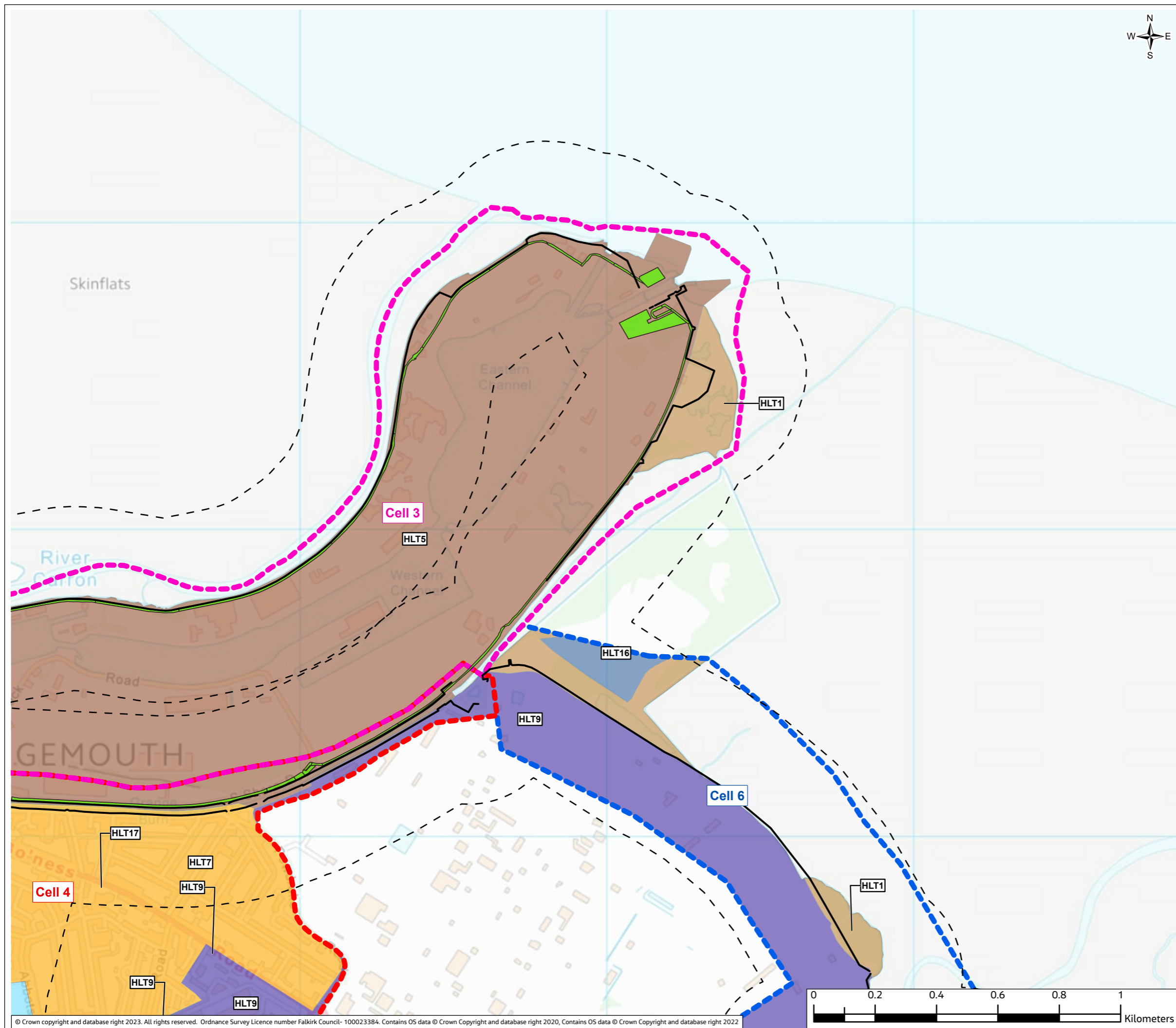
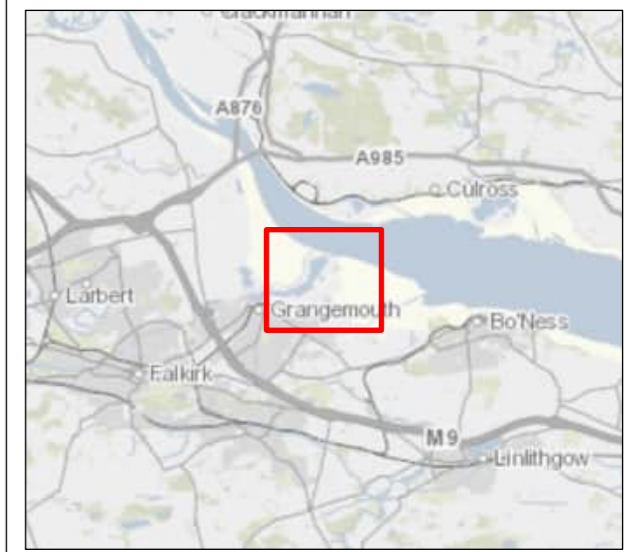


FIGURE B13.2d



- Legend**
- Direct Defences
 - - - 300m Study Area
 - World Heritage Site
 - World Heritage Site Buffer Zone
 - Site Compounds
 - Historic Landscape Area**
 - HLT1 - Late 20th Century-Present - Landfill Site
 - HLT4 - 19th Century-Present - Recreation Area
 - HLT5 - 19th Century-Present - Maritime Installation
 - HLT7 - 19th Century-Present - Urban Area
 - HLT9 - 19th Century-Present - Industrial or Commercial Area
 - HLT16 - Freshwater Area
 - Flood Cell Areas**
 - 1
 - 2
 - 3
 - 4
 - 5
 - 6



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SHEET: 4 OF 6

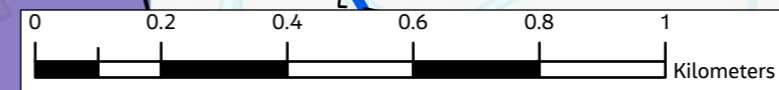
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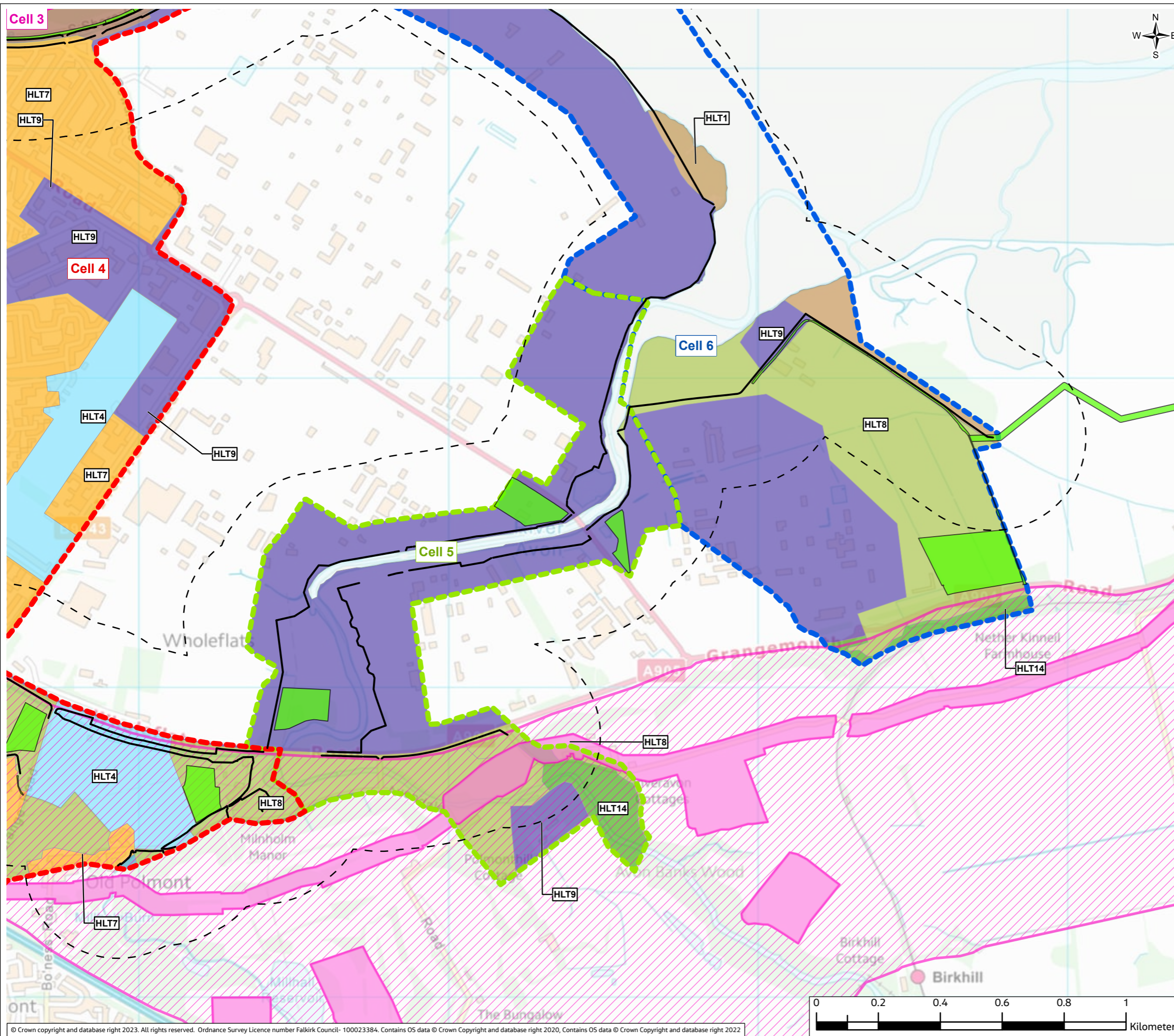


FIGURE B13.2e

Legend

- Direct Defences
- - - 300m Study Area
- World Heritage Site
- World Heritage Site Buffer Zone
- Site Compounds
- Historic Landscape Area**
- HLT1 - Late 20th Century-Present - Landfill Site
- HLT4 - 19th Century-Present - Recreation Area
- HLT5 - 19th Century-Present - Maritime Installation
- HLT7 - 19th Century-Present - Urban Area
- HLT8 - 18th Century-Present - Rectilinear Fields and Farms
- HLT9 - 19th Century-Present - Industrial or Commercial Area
- HLT10 - 20th Century-Present - Plantation
- HLT11 - 19th Century-Present - Golf Course
- HLT14 - 18th-20th Century - Managed Woodland
- Flood Cell Areas**
- 1
- 2
- 3
- 4
- 5
- 6



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Project
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 Flood Protection Scheme

Drawing Title
 HISTORIC LANDSCAPE TYPES

SHEET: 5 OF 6

Drawing Status
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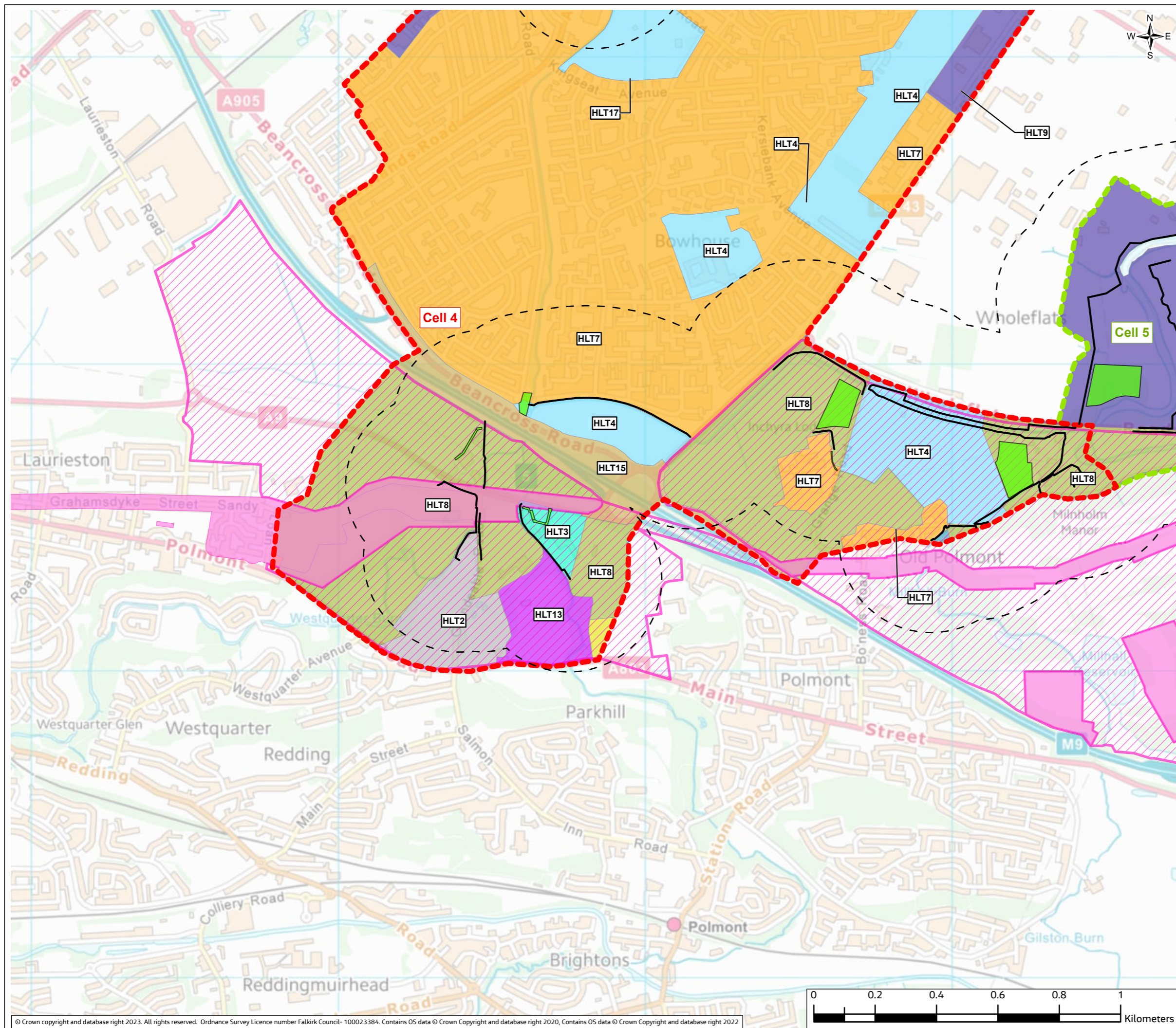
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Jacobs No. B2386100

Drawing No. Figure B13.2e

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FIGURE B13.2f




- Legend**
- Direct Defences
 - ⬜ 300m Study Area
 - World Heritage Site
 - World Heritage Site Buffer Zone
 - Site Compounds
- Historic Landscape Area**
- HLT2 - 18th Century-Present - Cemetery
 - HLT3 - Late 20th Century-Present - Industrial-scale Farming Unit
 - HLT4 - 19th Century-Present - Recreation Area
 - HLT7 - 19th Century-Present - Urban Area
 - HLT8 - 18th Century-Present - Rectilinear Fields and Farms
 - HLT9 - 19th Century-Present - Industrial or Commercial Area
 - HLT10 - 20th Century-Present - Plantation
 - HLT12 - 19th Century-Present - Cultivated Former Parkland
 - HLT13 - 17th-20th Century - Designed Landscape
 - HLT14 - 18th-20th Century - Managed Woodland
 - HLT15 - Late 20th Century-Present - Motorway
- Flood Cell Areas**
- 1
 - 2
 - 3
 - 4
 - 5
 - 6



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Project	Grangemouth Flood Protection Scheme
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Drawing Title	HISTORIC LANDSCAPE TYPES
SHEET:	6 OF 6

Drawing Status	S8-SUITABLE FOR STATUTORY CONSENT
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Drawing No.	Figure B13.2f
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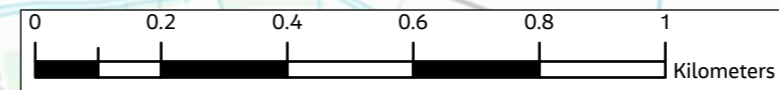








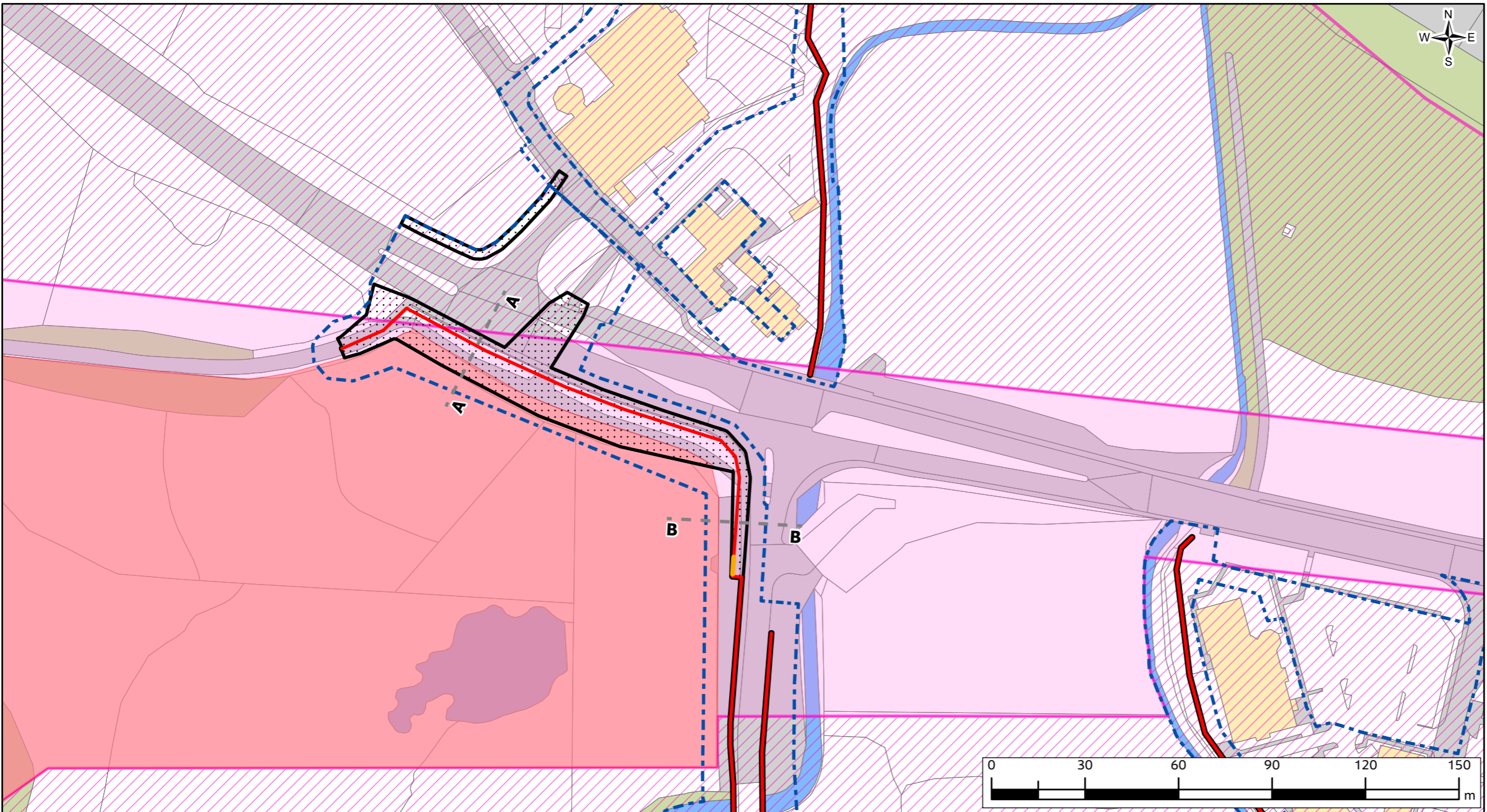
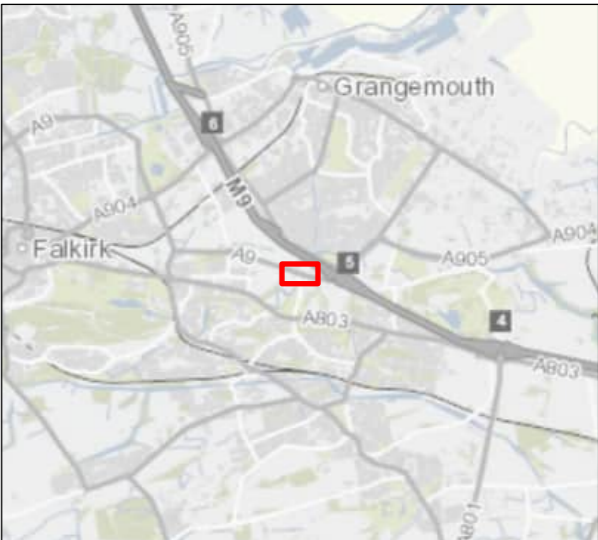


FIGURE B13.3

Legend



-  Site Boundary
-  Permanent Works Footprint
-  Flood Wall
-  Flood Gate
-  Scheduled Monument
-  World Heritage Site
-  World Heritage Site Buffer Zone
-  Cross Section



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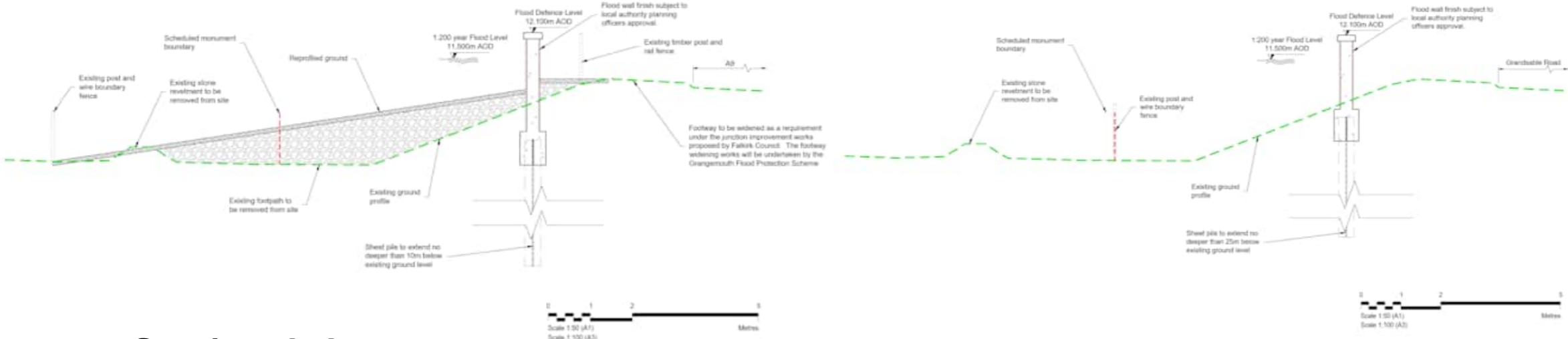
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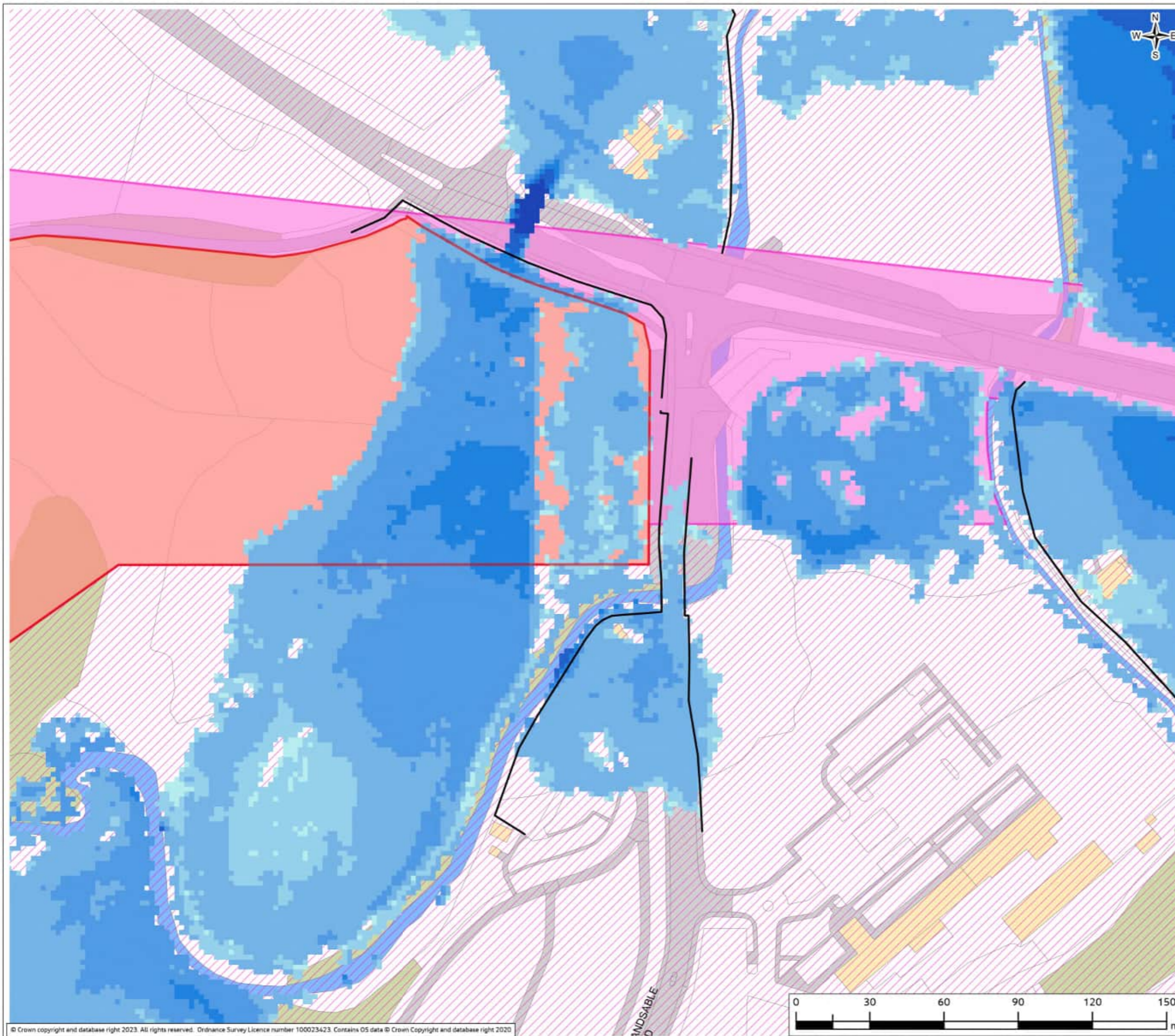


Section A-A

Section B-B

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FIGURE B13.4a



Legend

- Direct Defences
- ▨ Scheduled Monuments
- ▨ World Heritage Site
- ▨ World Heritage Site Buffer Zone

Baseline flood depths

- 0 - 0.01 m
- 0.01 - 0.1 m
- 0.1 - 0.5 m
- 0.5 - 1.0 m
- 1.0 - 1.5 m
- 1.5 - 2.0 m
- 2.0 - 2.5 m
- >2.5 m (max. 10.66)



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Drawing Title	ANTONINE WALL AND GRANDSABLE ROAD WITH BASELINE FLOODING ANTONINE WALL & GRANDSABLE ROAD	SHEET: 1 of 2
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Drawing Status	S8-SUITABLE FOR STATUTORY CONSENT
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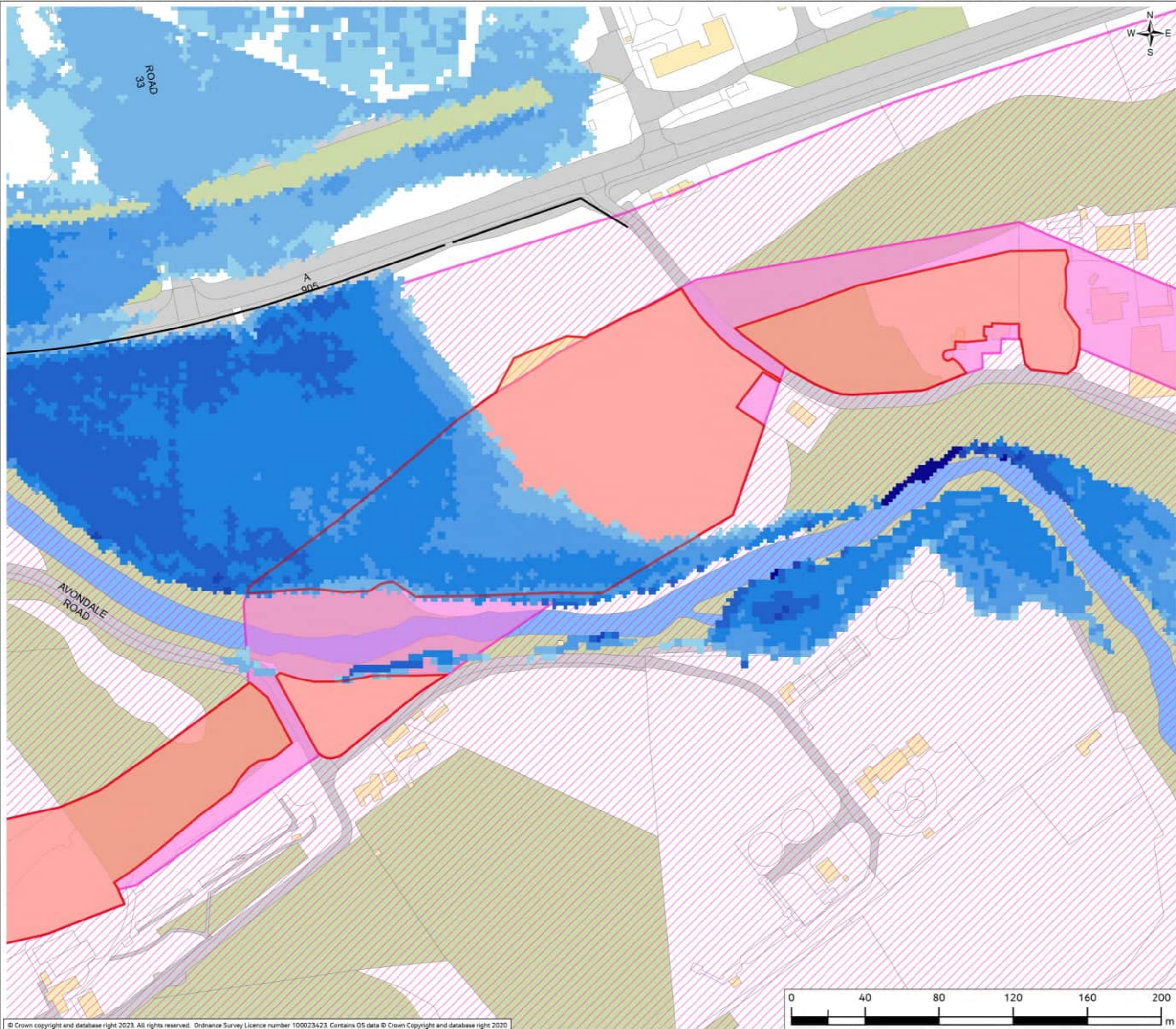
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Drawing No.	FIGURE B13.4a
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FIGURE B13.4b



Legend

- Direct Defences
- ▨ Scheduled Monuments
- ▨ World Heritage Site
- ▨ World Heritage Site Buffer Zone

Baseline flood depths

- 0 - 0.01 m
- 0.01 - 0.1 m
- 0.1 - 0.5 m
- 0.5 - 1.0 m
- 1.0 - 1.5 m
- 1.5 - 2.0 m
- 2.0 - 2.5 m
- >2.5 m (max. 10.66)



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Drawing Title	ANTONINE WALL AND GRANDSABLE ROAD WITH BASELINE FLOODING ANTONINE WALL, RIVER AVON	SHEET: 2 of 2
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Drawing Status	S8-SUITABLE FOR STATUTORY CONSENT
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Drawing No.	FIGURE B13.4b
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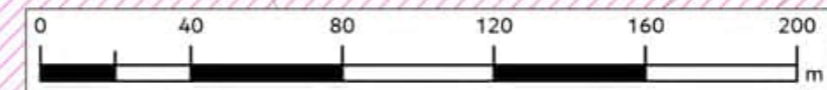
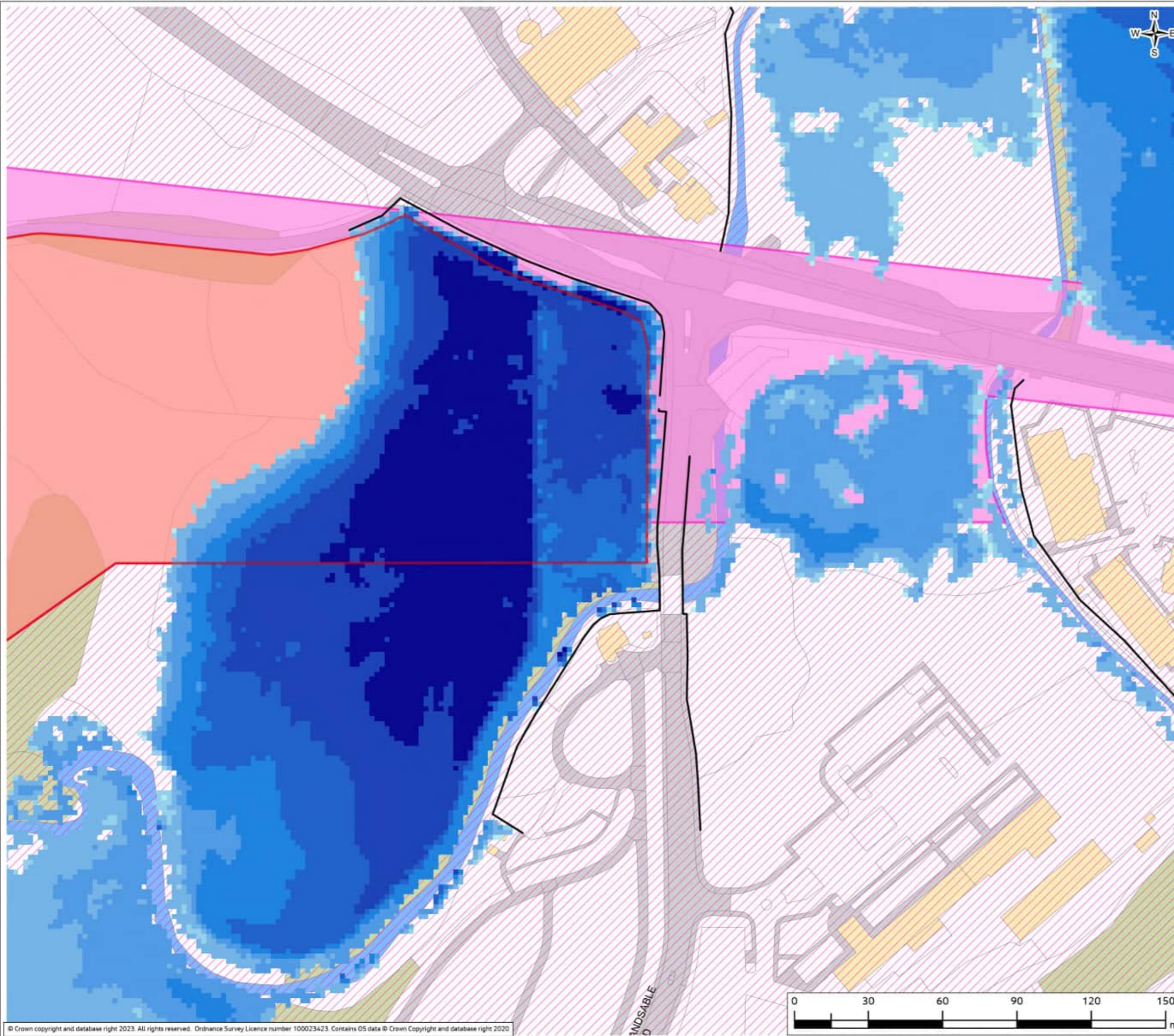


FIGURE B13.5a



Legend

- Direct Defences
- ▭ Scheduled Monuments
- ▭ World Heritage Site
- ▨ World Heritage Site Buffer Zone

Peak Flood Depth

- 0 - 0.01 m
- 0.01 - 0.1 m
- 0.1 - 0.5 m
- 0.5 - 1.0 m
- 1.0 - 1.5 m
- 1.5 - 2.0 m
- 2.0 - 2.5 m
- >2.5 m (max. 9.45)



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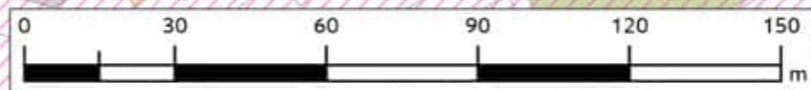
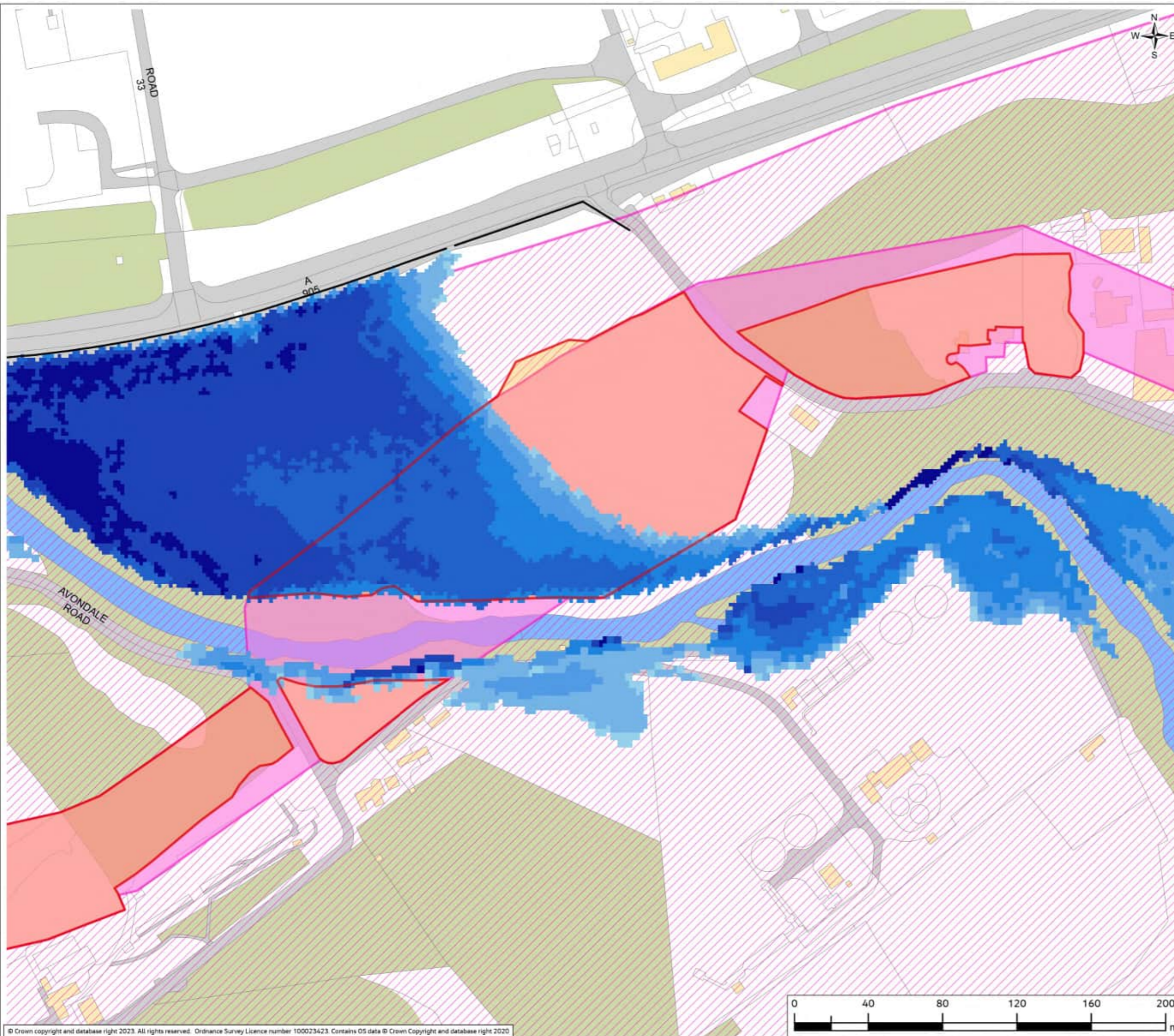


FIGURE B13.5b



Legend

- Direct Defences
- ▭ Scheduled Monuments
- ▭ World Heritage Site
- ▨ World Heritage Site Buffer Zone

Peak Flood Depth



- ▭ 0 - 0.01 m
- ▭ 0.01 - 0.1 m
- ▭ 0.1 - 0.5 m
- ▭ 0.5 - 1.0 m
- ▭ 1.0 - 1.5 m
- ▭ 1.5 - 2.0 m
- ▭ 2.0 - 2.5 m
- ▭ >2.5 m (max. 9.45)



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SHEET: 2 of 2

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Drawing No.	FIGURE B13.5b		

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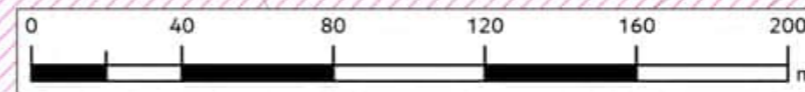
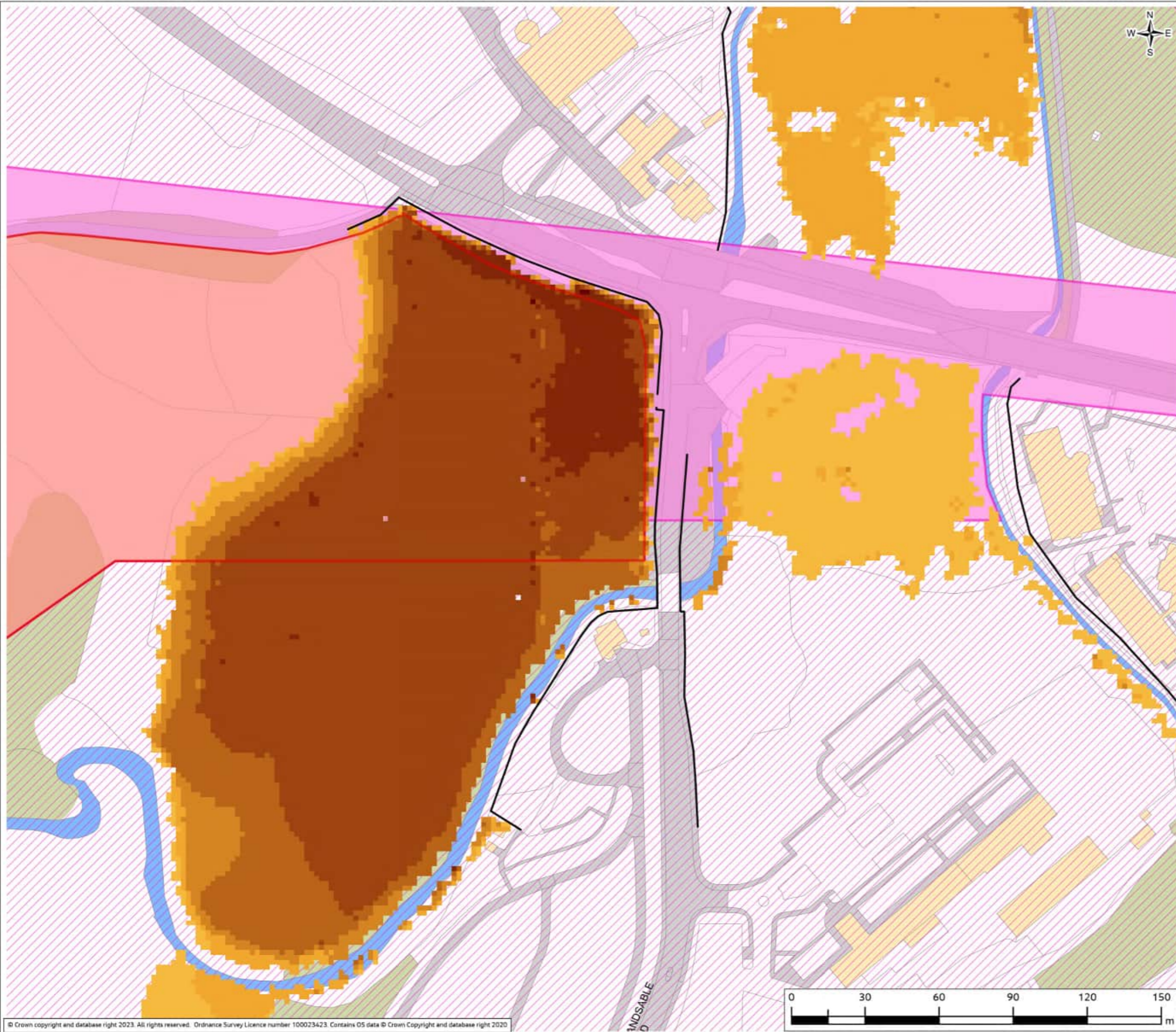


FIGURE B13.6a





- Legend**
- Direct Defences
 - ▨ Scheduled Monuments
 - ▨ World Heritage Site
 - ▭ World Heritage Site Buffer Zone
- With-scheme Peak Flood Increase (0.5% AEP (200-year) event)**
- 0 - 0.01 m
 - 0.01 - 0.1 m
 - 0.1 - 0.5 m
 - 0.5 - 1.0 m
 - 1.0 - 1.5 m
 - 1.5 - 2.0 m
 - 2.0 - 2.5 m
 - >2.5 m



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Project: **Grangemouth
 Flood Protection Scheme**

Drawing Title: **ANTONINE WALL AND GRANDSABLE ROAD
 WITH 200yr FLOOD INCREASE ANTONINE WALL & GRANDSABLE ROAD**
 SHEET: 1 of 2

Drawing Status: **S8-SUITABLE FOR STATUTORY CONSENT**

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Drawing No. **FIGURE B13.6a**

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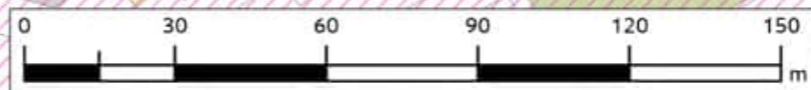
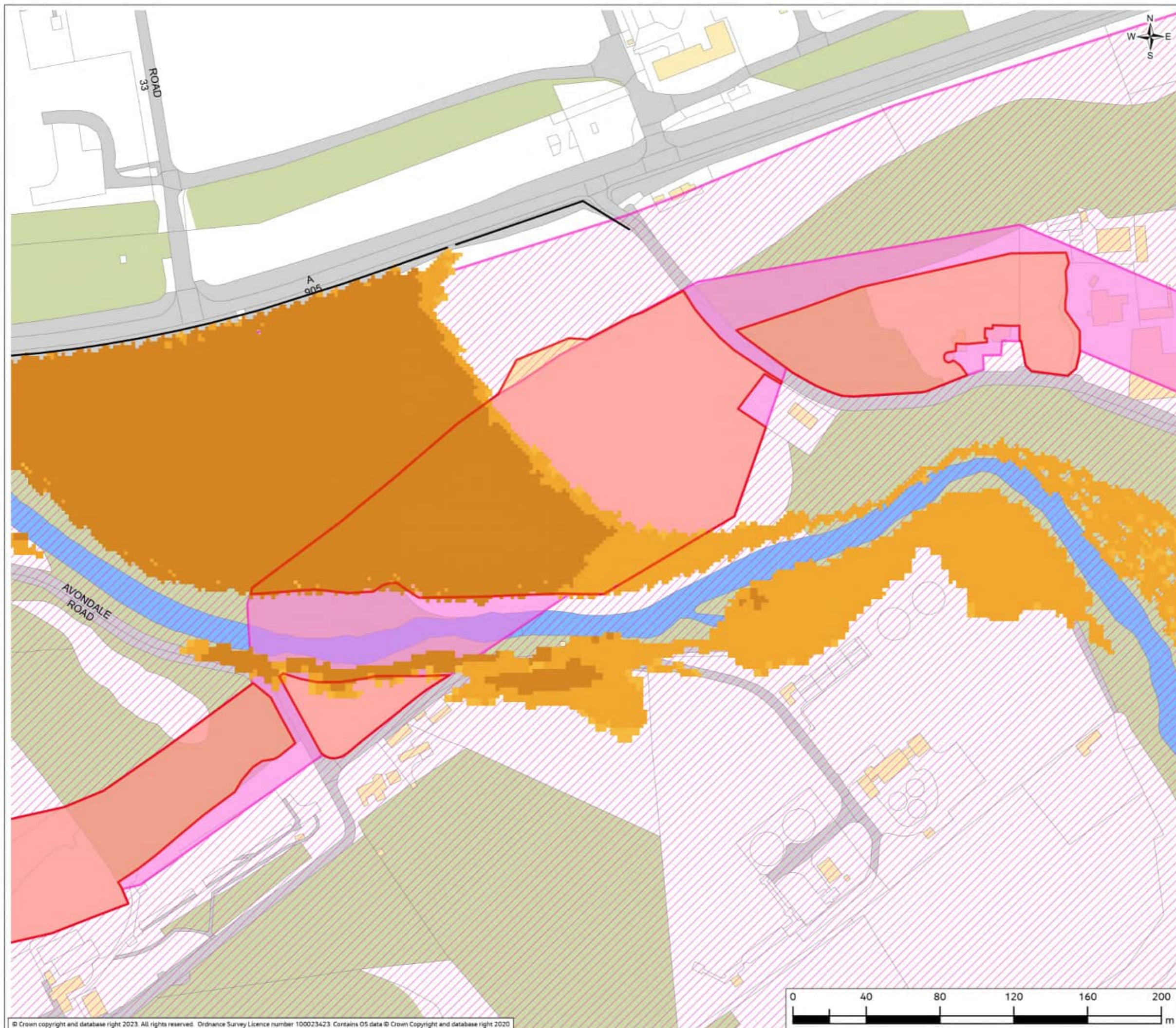


FIGURE B13.6b



Legend

- Direct Defences
- ▭ Scheduled Monuments
- ▭ World Heritage Site
- ▨ World Heritage Site Buffer Zone

With-scheme Peak Flood Increase (0.5% AEP (200-year) event)

- 0 - 0.01 m
- 0.01 - 0.1 m
- 0.1 - 0.5 m
- 0.5 - 1.0 m
- 1.0 - 1.5 m
- 1.5 - 2.0 m
- 2.0 - 2.5 m
- >2.5 m



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Drawing No.	FIGURE B13.6b
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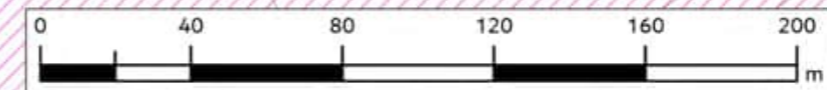
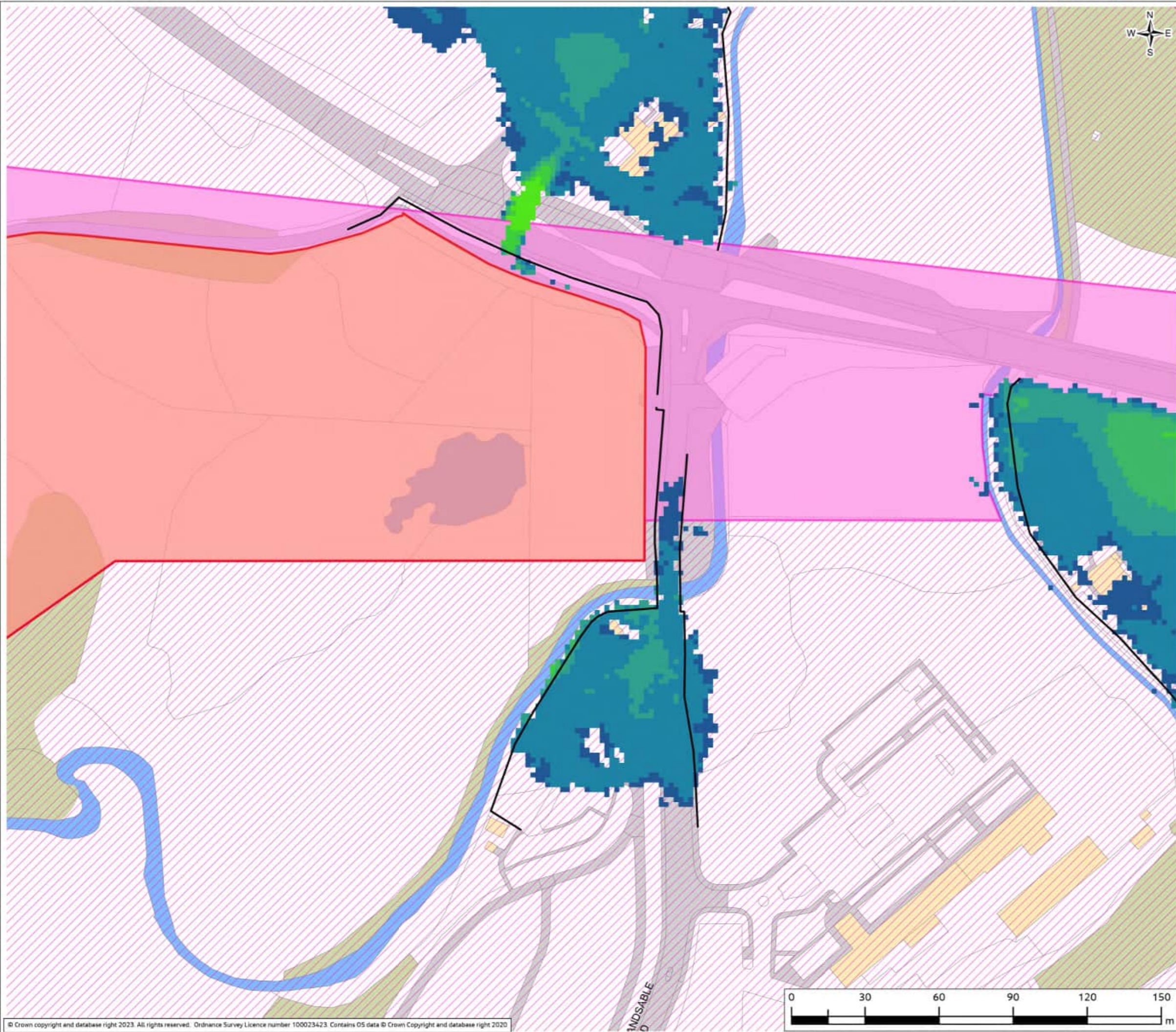


FIGURE B13.7a



Legend

- Direct Defences
 - ▭ Scheduled Monuments
 - ▭ World Heritage Site
 - ▭ World Heritage Site Buffer Zone
- With-scheme Peak Flood Decrease (0.5% AEP (200-year) event)
- 0 - -0.01 m
 - ▭ -0.01 - -0.1 m
 - ▭ -0.1 - -0.5 m
 - ▭ -0.5 - -1.0 m
 - ▭ -1.0 - -1.5 m
 - ▭ -1.5 - -2.0 m
 - ▭ -2.0 - -2.5 m
 - ▭ > -2.5 m



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	SHEET: 1 of 2

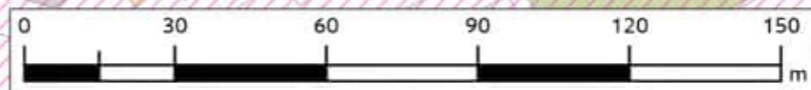
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Drawing No.	FIGURE B13.7a
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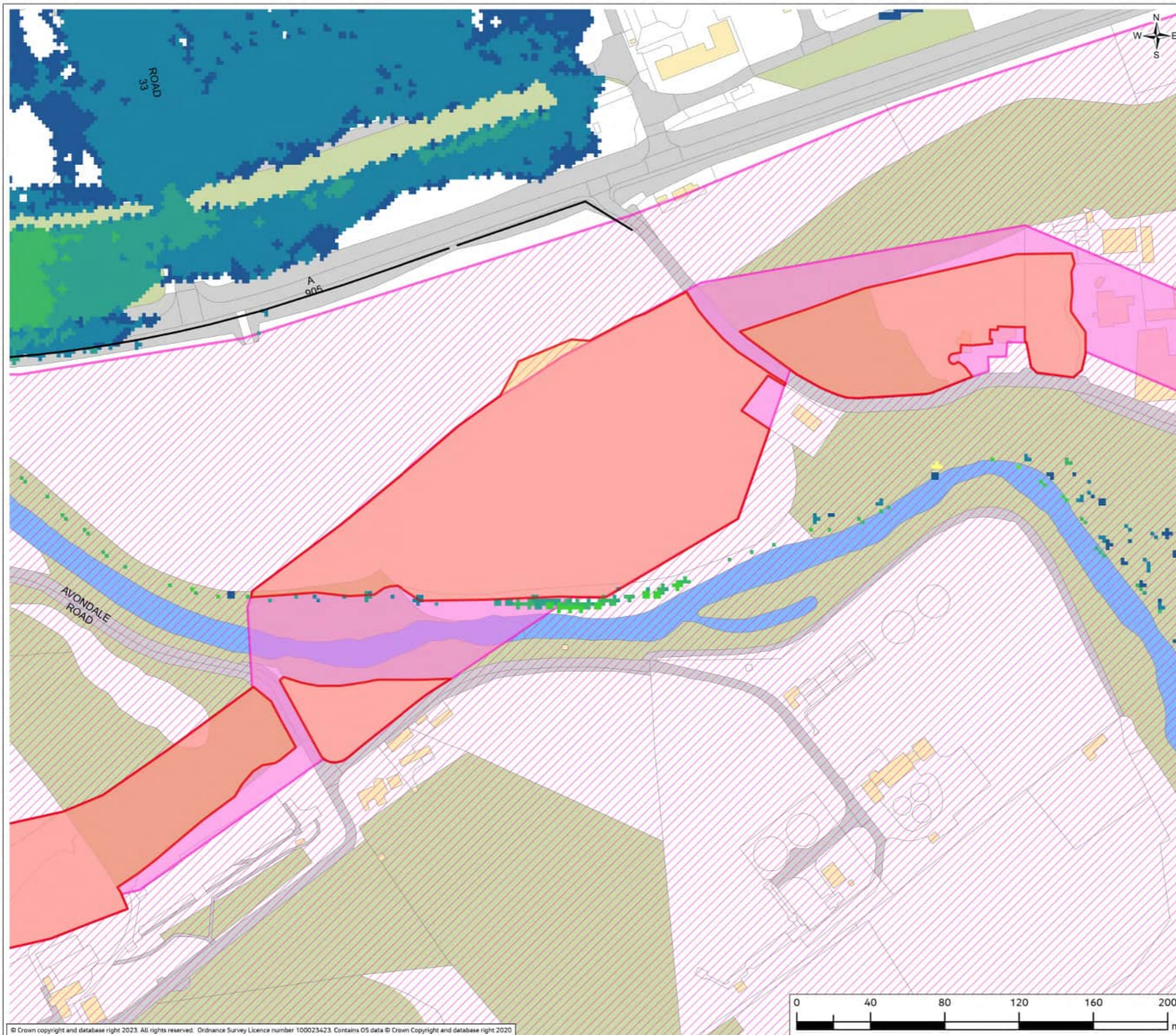


FIGURE B13.7b

- Legend**
- Direct Defences
 - ▭ Scheduled Monuments
 - ▭ World Heritage Site
 - ▭ World Heritage Site Buffer Zone
- With-scheme Peak Flood Decrease (0.5% AEP (200-year) event)**
- 0 - -0.01 m
 - ▭ -0.01 - -0.1 m
 - ▭ -0.1 - -0.5 m
 - ▭ -0.5 - -1.0 m
 - ▭ -1.0 - -1.5 m
 - ▭ -1.5 - -2.0 m
 - ▭ -2.0 - -2.5 m
 - ▭ > -2.5 m



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Project	Grangemouth Flood Protection Scheme
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Drawing Title	ANTONINE WALL AND GRANDSABLE ROAD WITH 200yr FLOOD DECREASE ANTONINE WALL, RIVER AVON
	SHEET: 2 of 2

Drawing Status	S8-SUITABLE FOR STATUTORY CONSENT
Scale @ A3	1:2,000 DO NOT SCALE
Jacobs No.	B2386100
Client No.	

Drawing No.	FIGURE B13.7b
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