

# Environmental Impact Assessment Report

Appendix A Scheme Figures

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**Grangemouth Flood Protection Scheme 2024**  
**Falkirk Council**



**GRANGEMOUTH**  
Flood Protection Scheme  
Protecting the heart of our communities



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# Environmental Impact Assessment Report

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**Grangemouth Flood Protection Scheme 2024**  
**Falkirk Council**



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Flood Protection Scheme  
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## **Contents (links to appendices)**

Appendix Figure A1.1: Location and Context

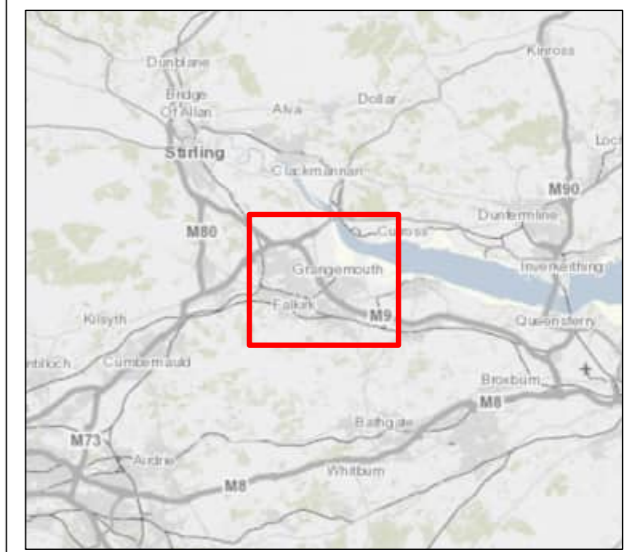
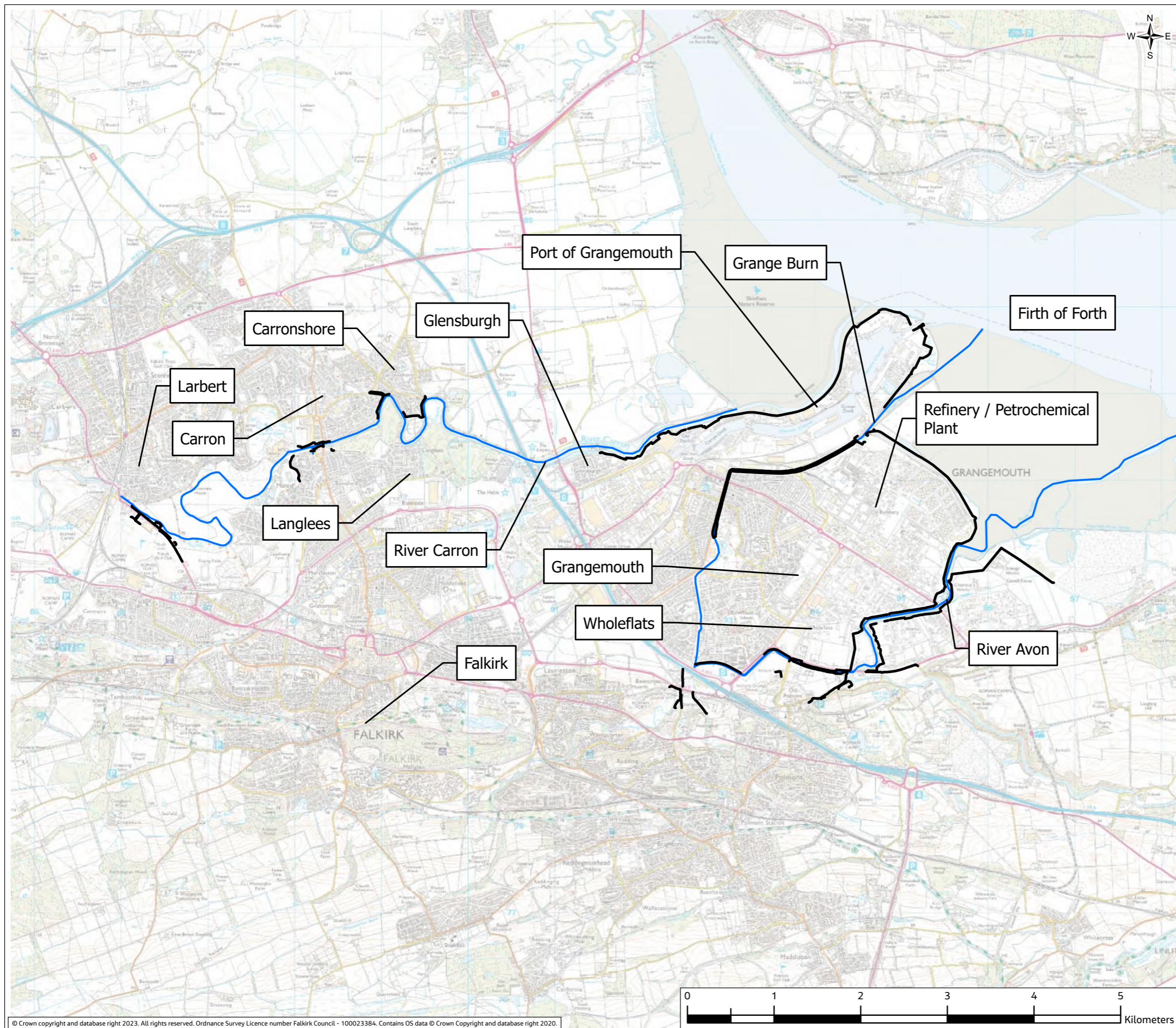
Appendix Figure A1.2: Flood Cell and Flood Extent Location

Appendix Figure A1.3: Flood Cells and Working Areas

Appendix Figure A1.4: Scheme Components

**FIGURE A1.1**

- Legend**
- Scheme Extents
  - Watercourses



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**Project**

**Grangemouth  
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**Drawing Title**

**LOCATION AND CONTEXT OF  
 GRANGEMOUTH FLOOD PROTECTION SCHEME**

SHEET 1 OF 1

**Drawing Status**

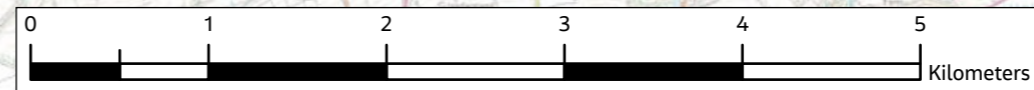
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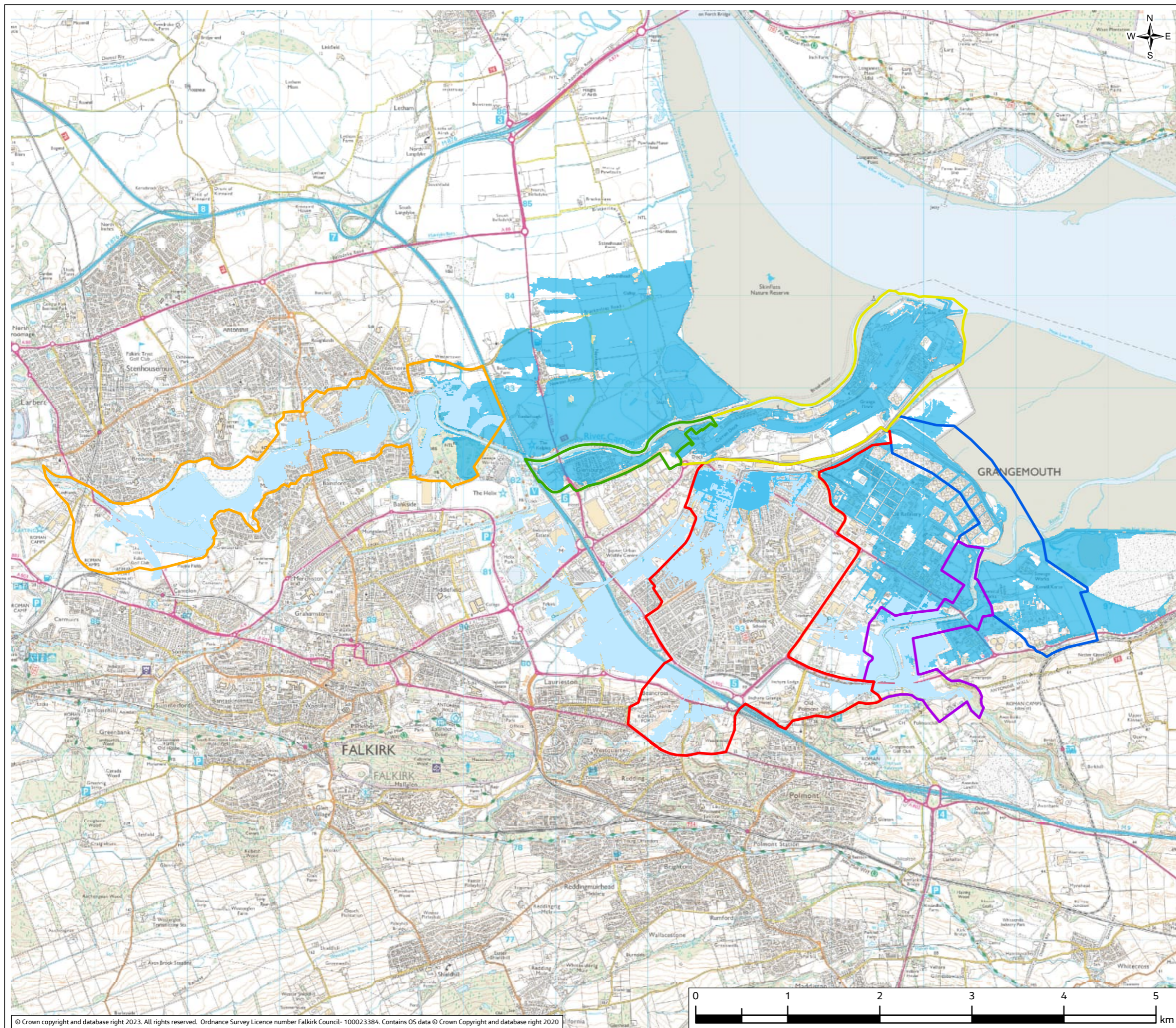
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Figure A1.1

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**FIGURE A1.2**



- Legend**
- Cell**
- Cell 1
  - Cell 2
  - Cell 3
  - Cell 4
  - Cell 5
  - Cell 6
- Flood Extent - Fluvial
- Flood Extent - Tidal



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Drawing Title	FLOOD CELL AND FLOOD EXTENT LOCATION
	SHEET: 1 OF 1

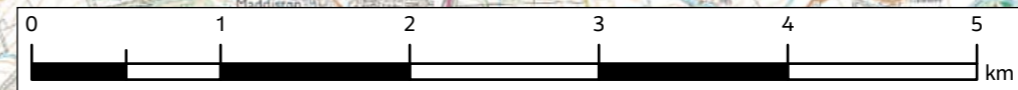
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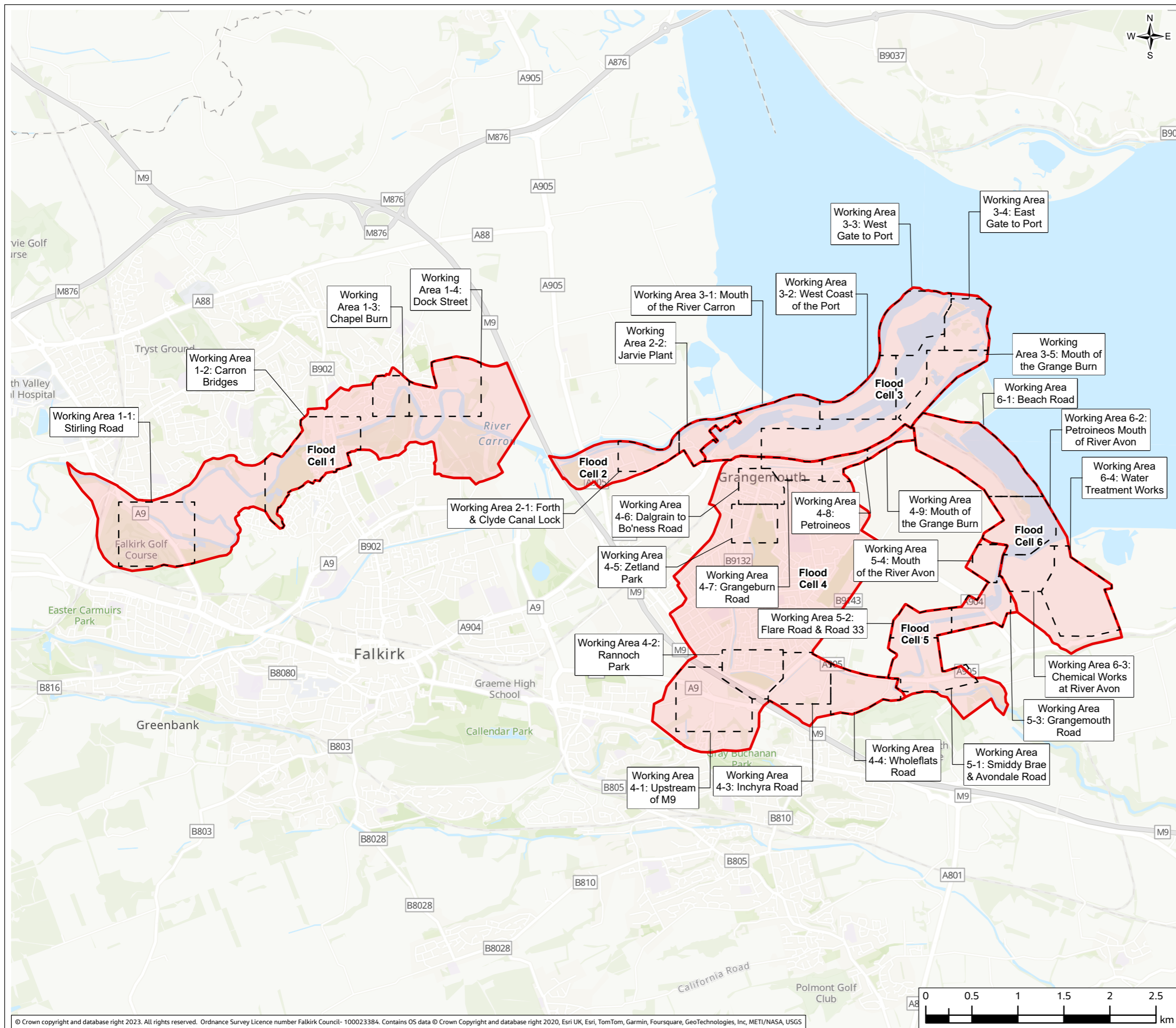
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**FIGURE A1.3**

**Legend**

- Flood Cells
- Working Areas



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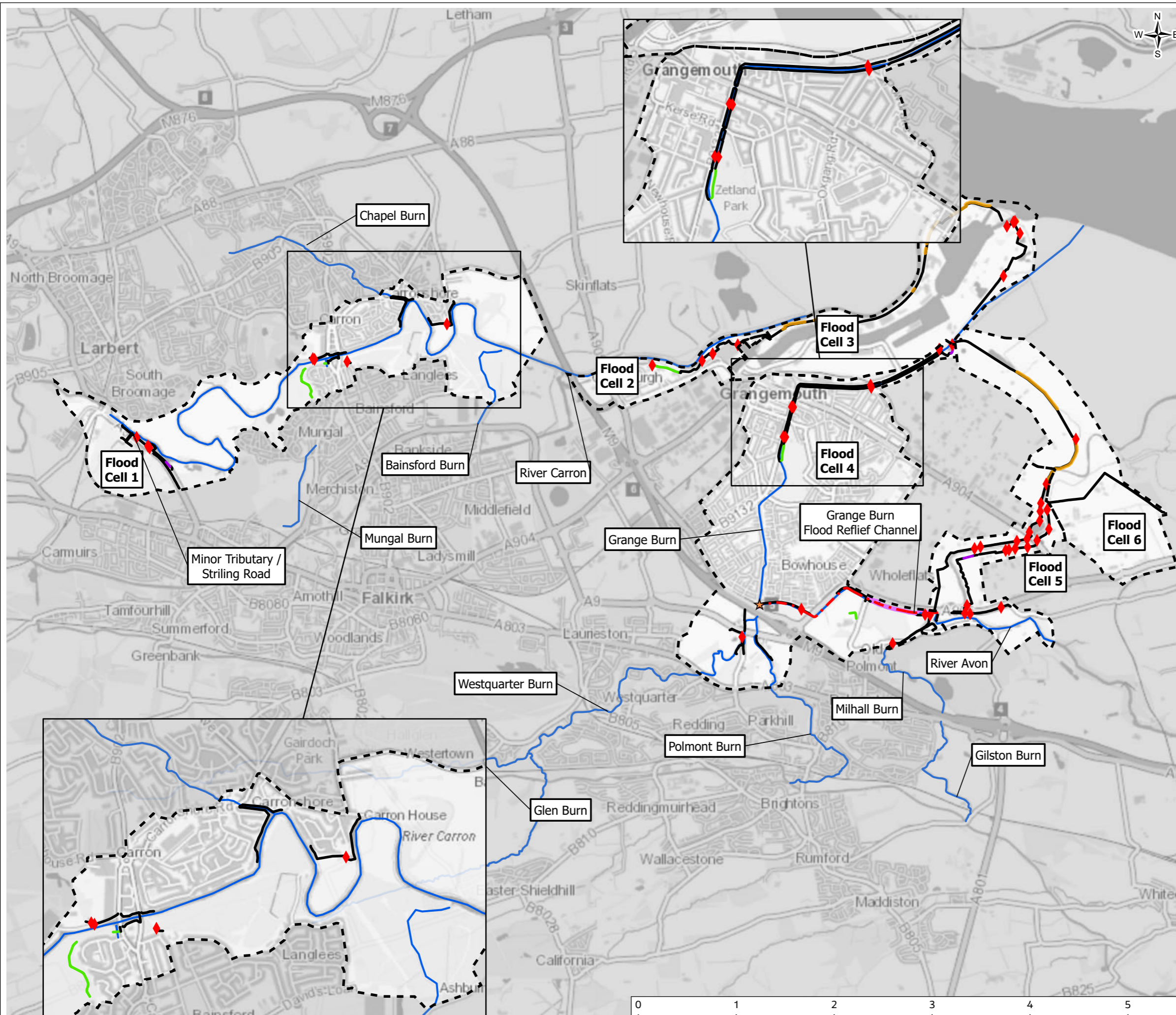
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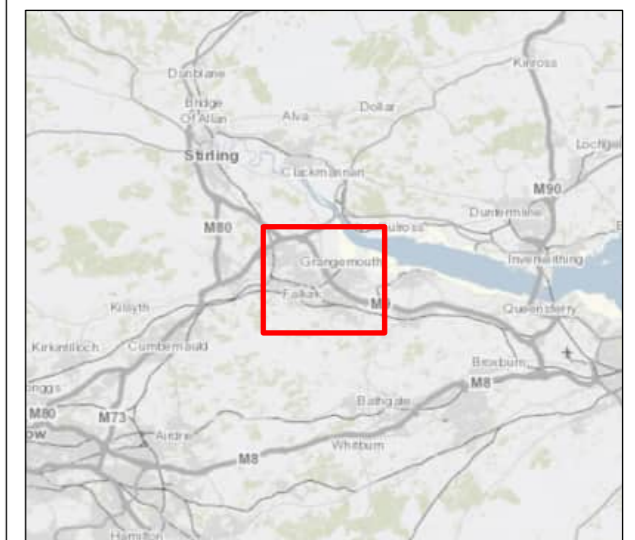


**FIGURE A1.4**



**Legend**



- Flood Cell
- Seepage
- Embankment
- Ground Raising
- Flood Walls
- Coastal Revetment
- Channel Relining
- Flood Gates
- Flow Control Structure
- Watercourse



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Drawing Title	GRANGEMOUTH FLOOD PROTECTION SCHEME COMPONENTS	SHEET 1 OF 1
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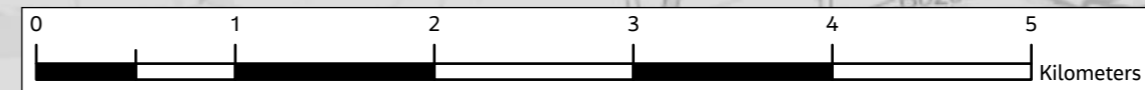
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# Environmental Impact Assessment Report

Scheme Figures (A4.1 - A4.28)

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**Falkirk Council**



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  - Figure A4.5: Working Area 2-1 / Forth and Clyde Canal Lock
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-

**FIGURE A4.1**

**Legend**

- Brick clad wall
- Earth embankment
- Formed concrete wall
- Stone clad wall
- Seepage
- Site Boundary
- Site Compounds
- Permanent Works Footprint
- In-water Working
- Flood Cell 1 Boundary
- Working Area
- ▲ Flood Gates
- Access Point - Ramps



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Project	Grangemouth Flood Protection Scheme

Drawing Title	FLOOD CELL 1 - WORKING AREA 1-1: STIRLING ROAD ALIGNMENT AND LAYOUT
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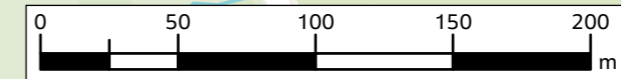
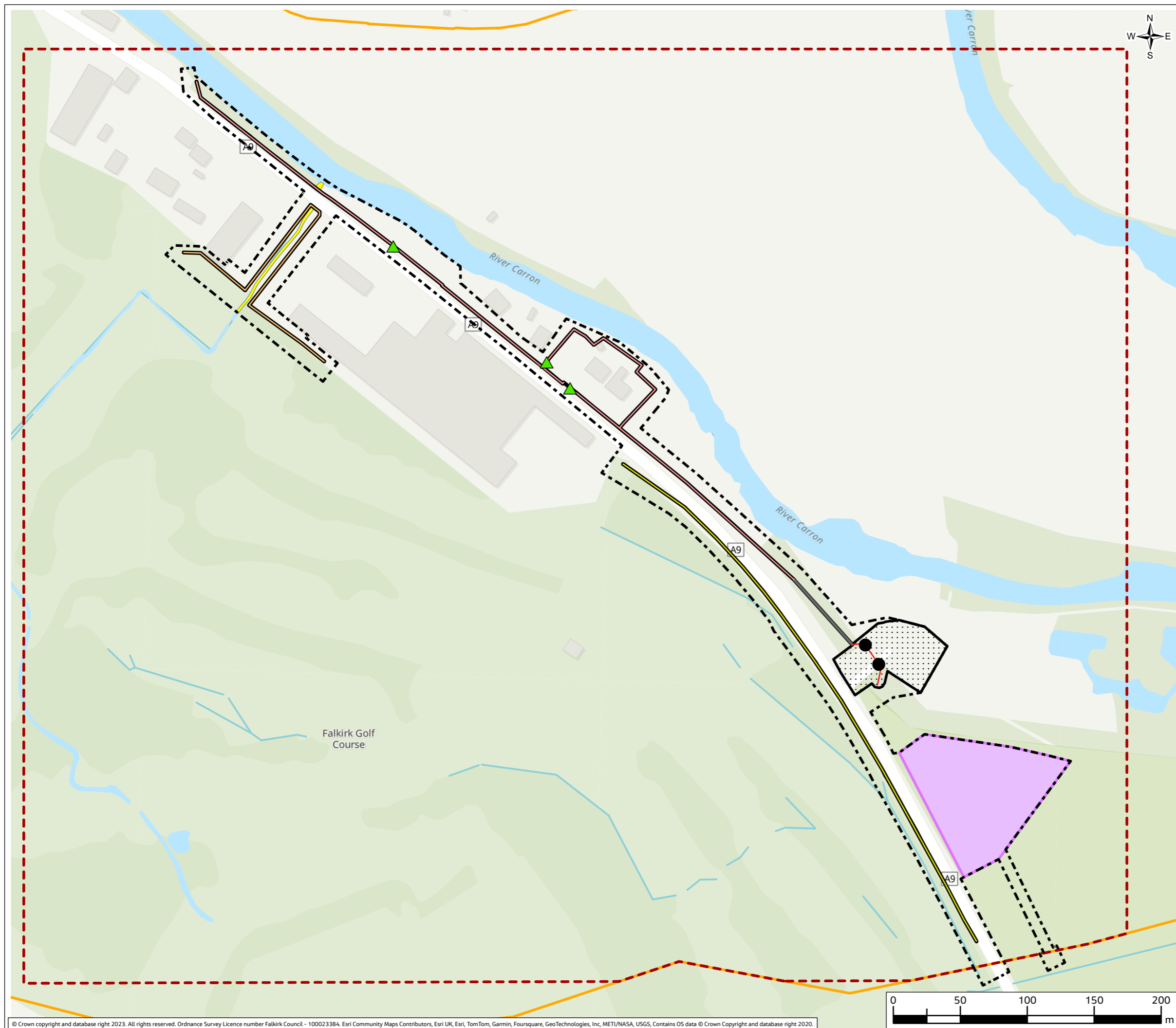
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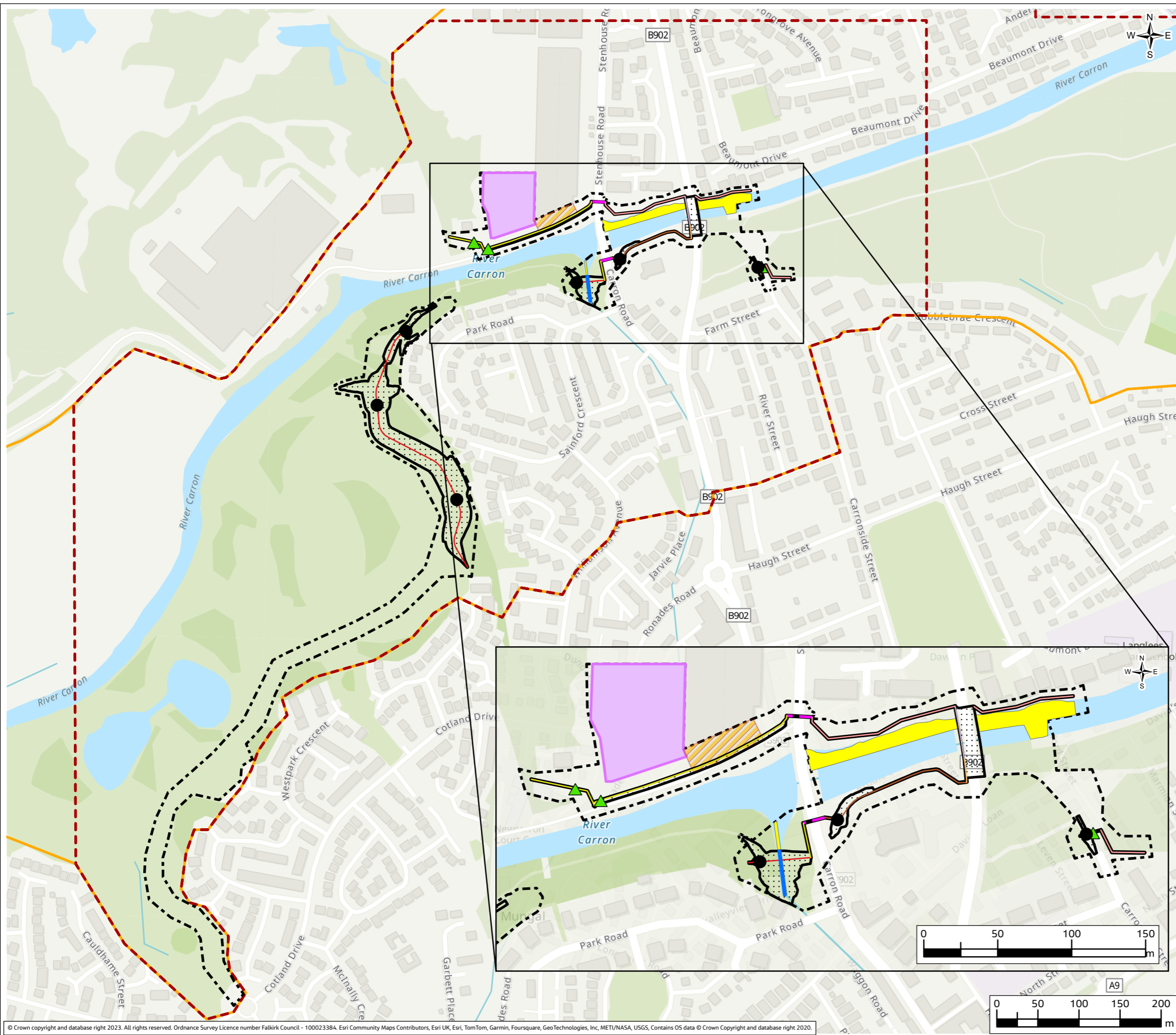
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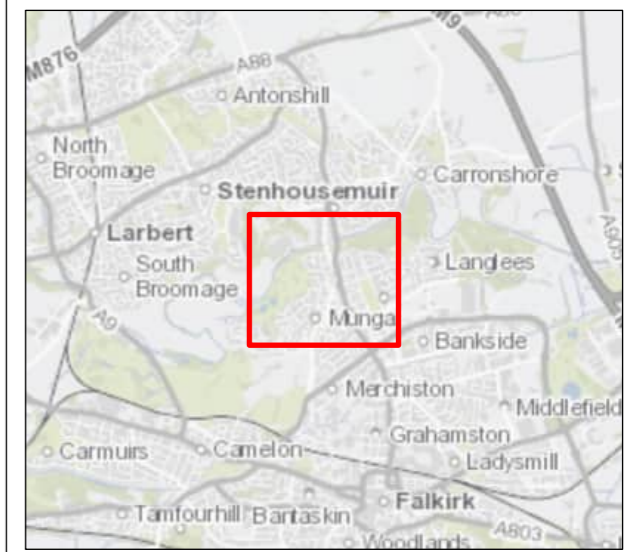
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**FIGURE A4.2**



- Legend**
- New Culverts
  - Brick clad wall
  - Earth embankment
  - Formed concrete wall
  - Replacement bridge
  - Stone clad wall
  - Stone clad wall with glass panels
  - Demountable defence
  - Site Boundary
  - Demolished Buildings
  - Permanent Works Footprint
  - In-water Working
  - Flood Cell 1 Boundary
  - Working Area
  - ▲ Flood Gates
  - Access Point - Ramps



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**Project**  
 Grangemouth  
 Flood Protection Scheme

**Drawing Title**  
 FLOOD CELL 1 - WORKING AREA 1-2: CARRON BRIDGES  
 ALIGNMENT AND LAYOUT

**SHEET: 2 OF 4**

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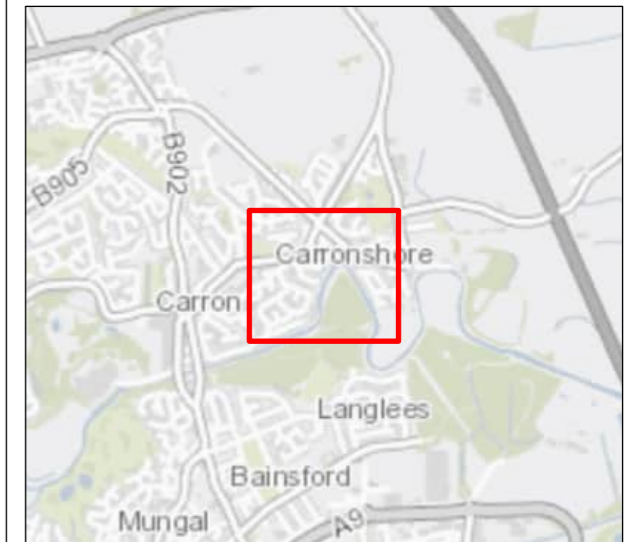
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**FIGURE A4.3**

**Legend**

- Brick clad wall
- Formed concrete wall
- Stone clad wall
- Site Boundary
- Permanent Works Footprint
- In-water Working
- Flood Cell 1 Boundary
- Working Area
- Working Area



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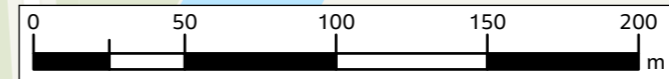
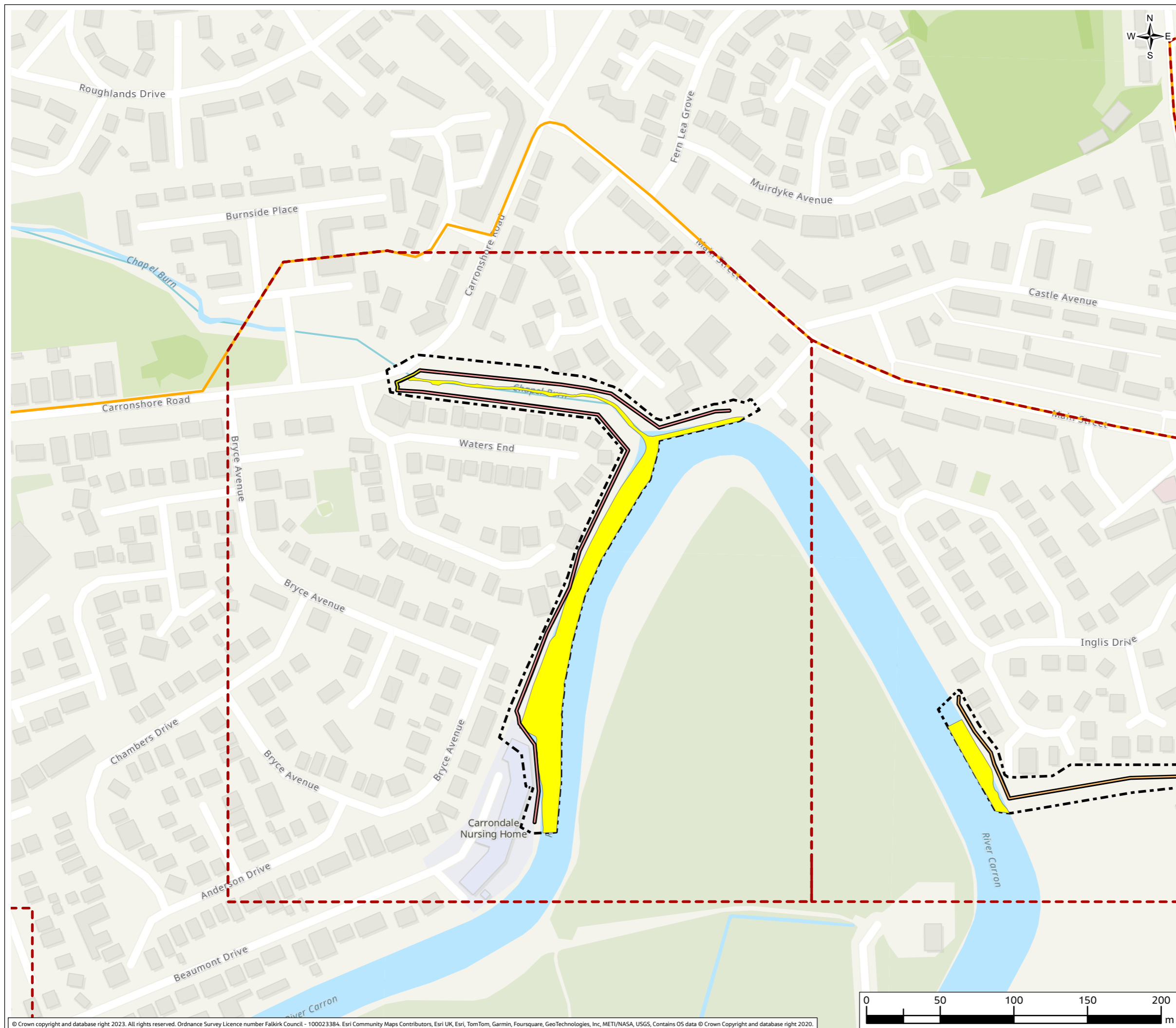
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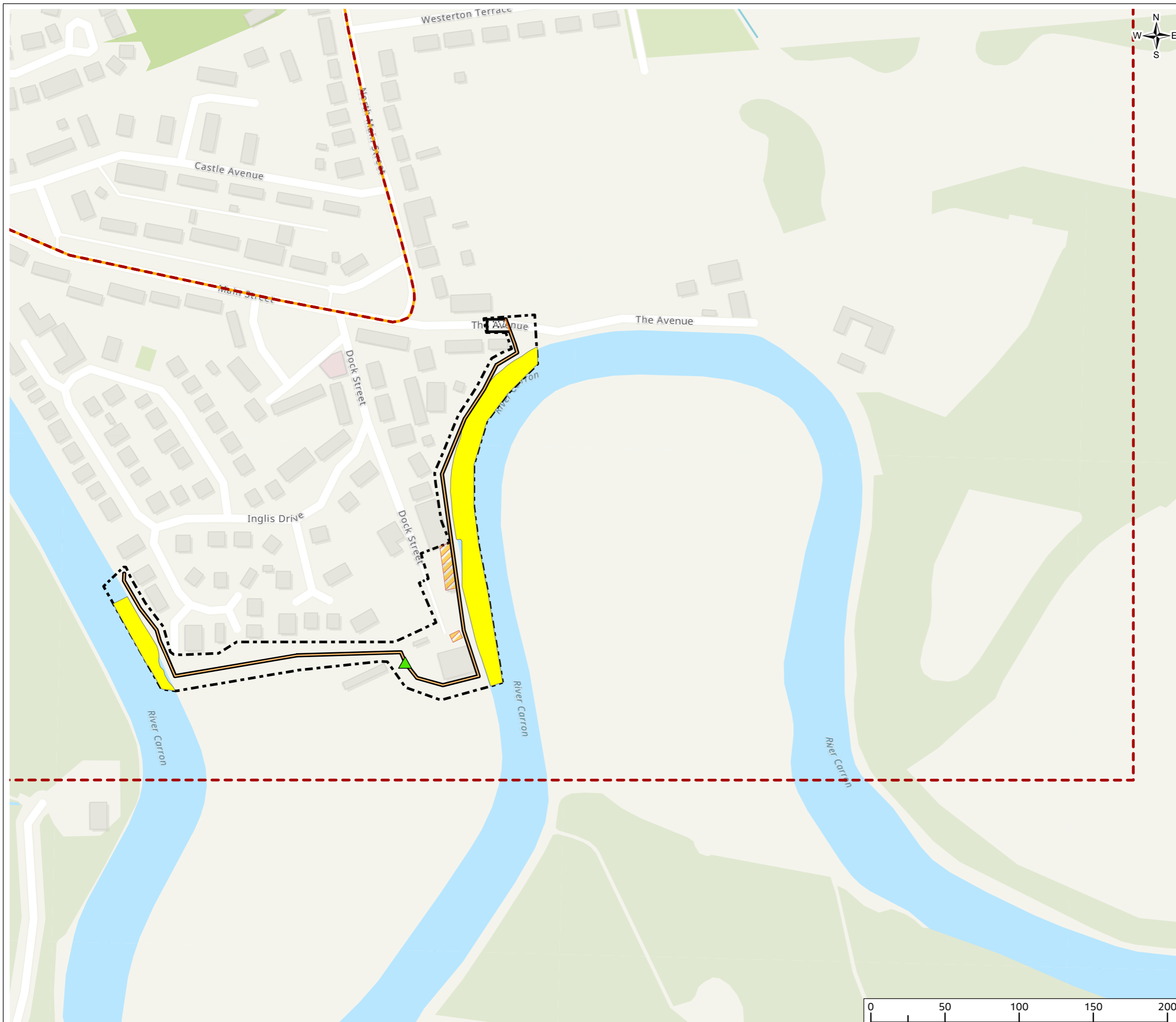
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**FIGURE A4.4**

**Legend**

- Formed concrete wall
- Local ground raising
- Site Boundary
- Demolished Buildings
- Permanent Works Footprint
- In-water Working
- Flood Cell 1 Boundary
- Working Area
- Flood Gates



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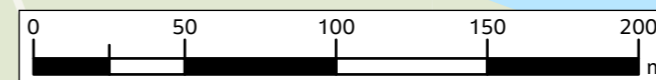
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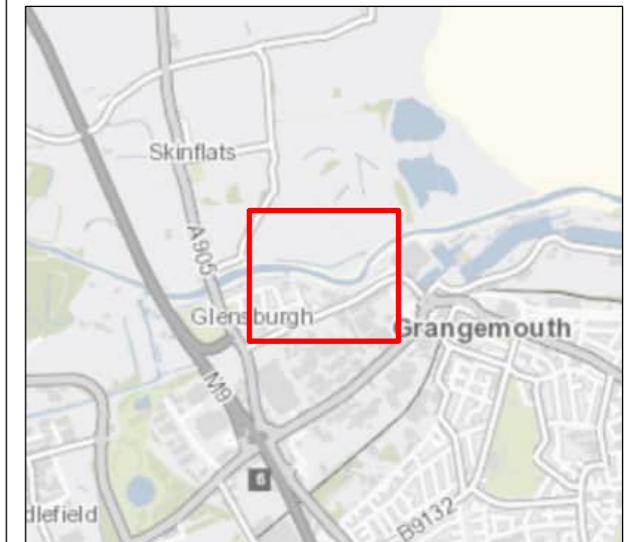
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**FIGURE A4.5**

**Legend**



-  Bare sheet pile wall
-  Earth embankment
-  Site Boundary
-  Demolished Buildings
-  Permanent Works Footprint
-  Site Compounds
-  Inwater Working
-  Flood Cell 2 Boundary
-  Working Area
-  Flood Gates
-  Access Point - Ramps



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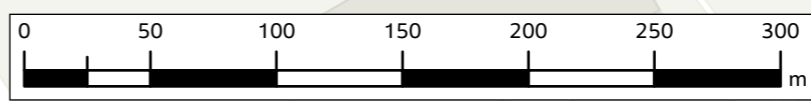
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SHEET: 1 OF 2	

Drawing Status	S8-SUITABLE FOR STATUTORY CONSENT
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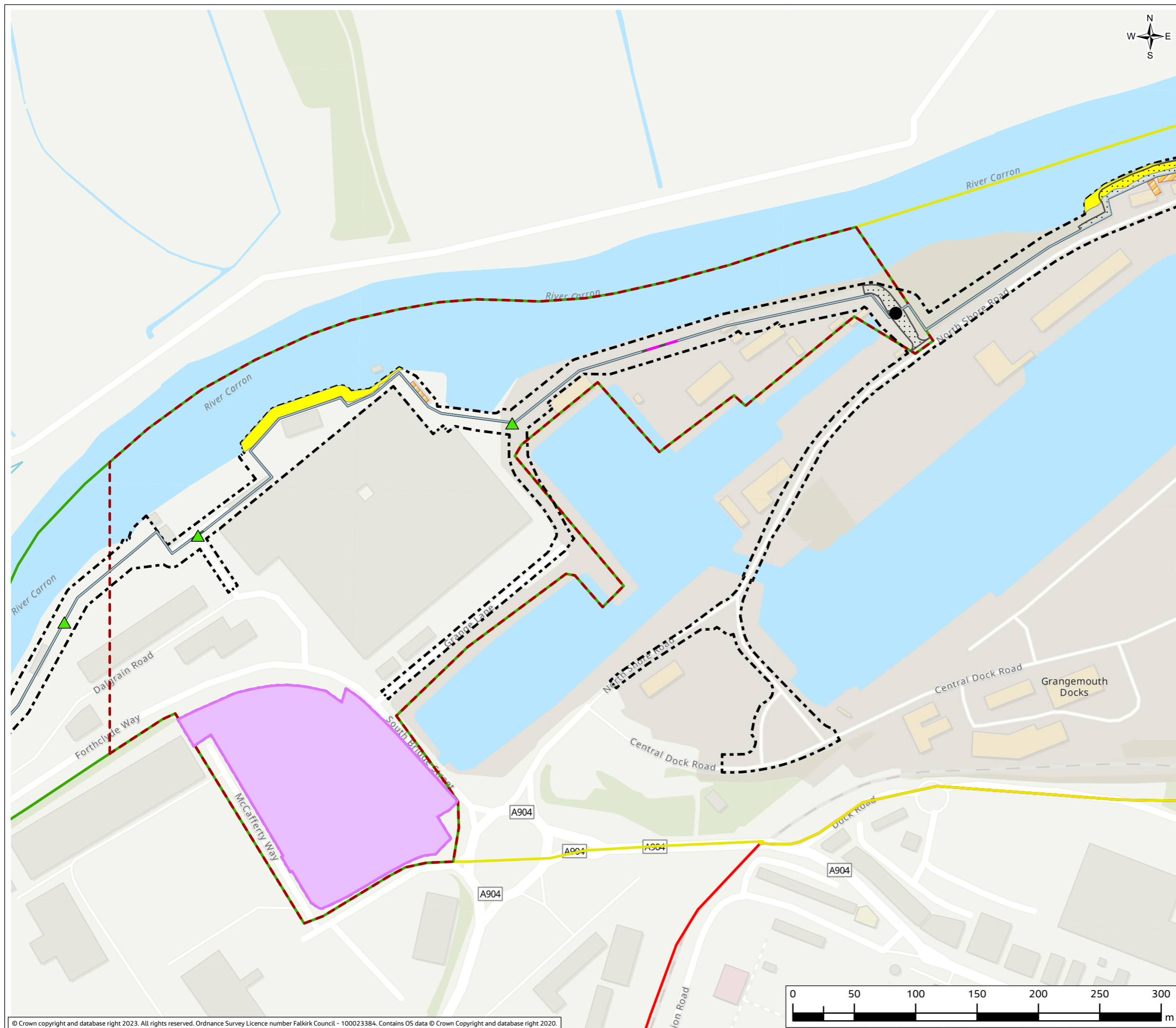
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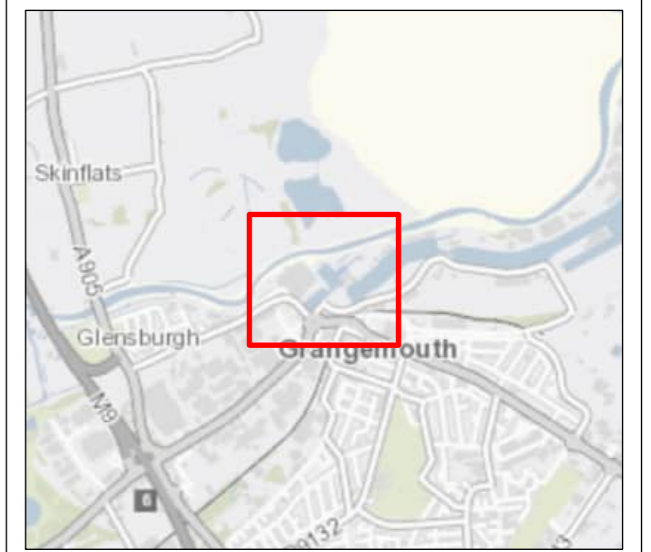




**FIGURE A4.6**



- Legend**
- Bare sheet pile wall
  - Demountable defence
  - Site Boundary
  - Demolished Buildings
  - Permanent Works Footprint
  - Site Compounds
  - Inwater Working
  - Flood Cell 2 Boundary
  - Flood Cell 3 Boundary
  - Flood Cell 4 Boundary
  - Working Area
  - ▲ Flood Gates
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**Drawing Title**  
 FLOOD CELL 2 - WORKING AREA 2-2: JARVIE PLANT  
 ALIGNMENT AND LAYOUT

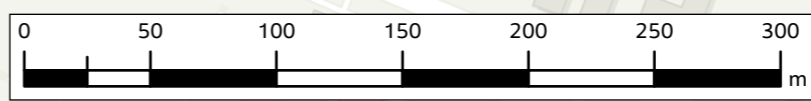
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**Drawing No.** Figure A4.6











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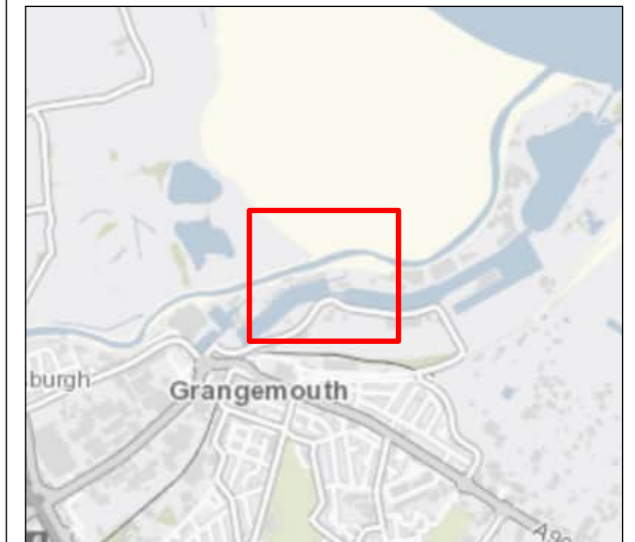


**FIGURE A4.7**



**Legend**



-  Bare sheet pile wall
-  Site Boundary
-  Demolished Buildings
-  Permanent Works Footprint
-  Site Compounds
-  In-water Working
-  Flood Cell 2 Boundary
-  Flood Cell 3 Boundary
-  Working Area
-  Access Point - Ramps



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Project	Grangemouth Flood Protection Scheme
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Drawing Title	FLOOD CELL 3 - WORKING AREA 3-1: MOUTH OF THE RIVER CARRON ALIGNMENT AND LAYOUT
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SHEET: 1 OF 5

Drawing Status	S8-SUITABLE FOR STATUTORY CONSENT
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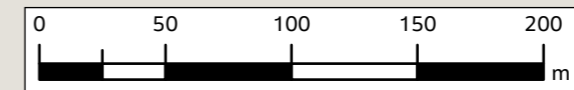
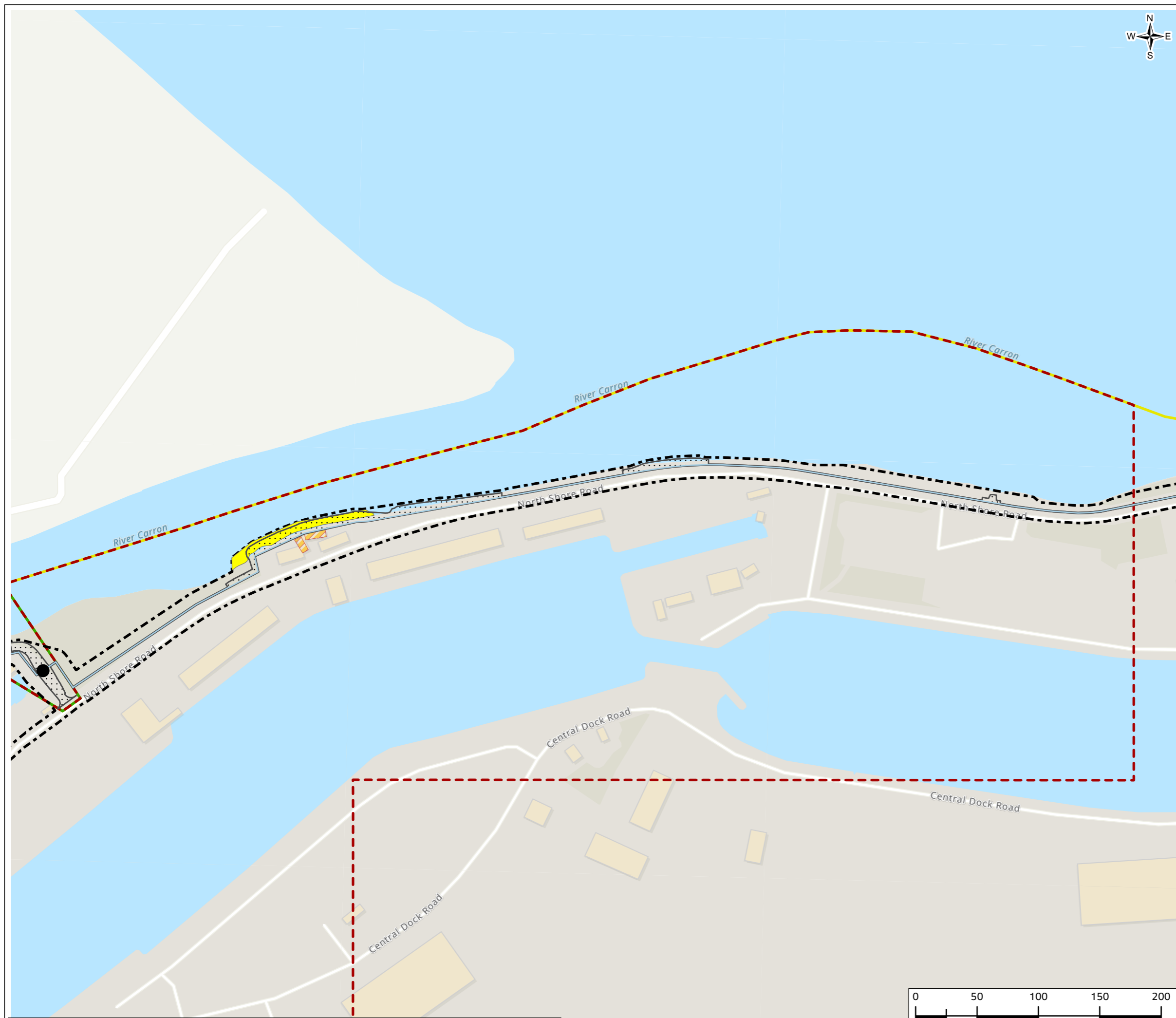
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




Drawing No.	Figure A4.7
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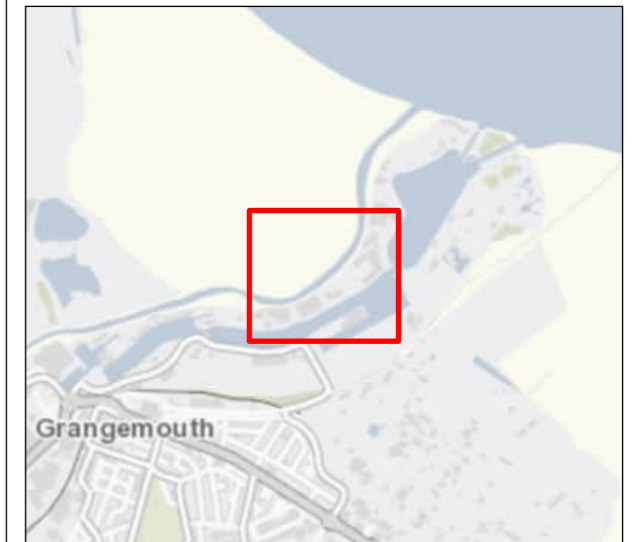
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**FIGURE A4.8**

**Legend**



-  Bare sheet pile wall
-  Site Boundary
-  Permanent Works Footprint
-  Site Compounds
-  Flood Cell 3 Boundary
-  Working Area



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Drawing Title	FLOOD CELL 3 - WORKING AREA 3-2: WEST COAST OF THE PORT ALIGNMENT AND LAYOUT
	SHEET: 2 OF 5

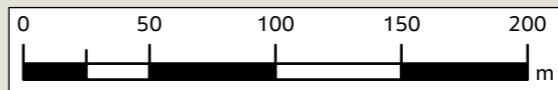
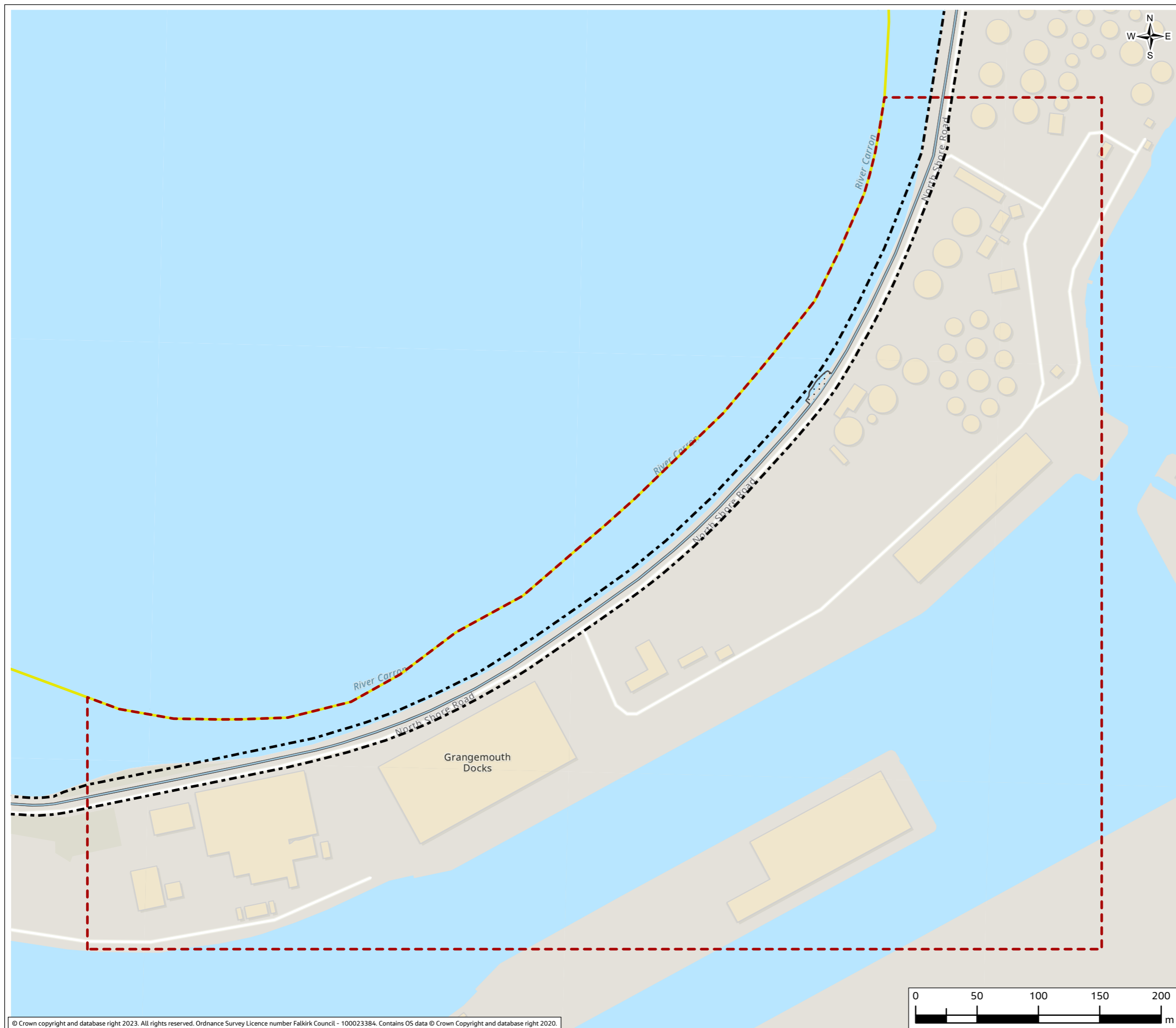
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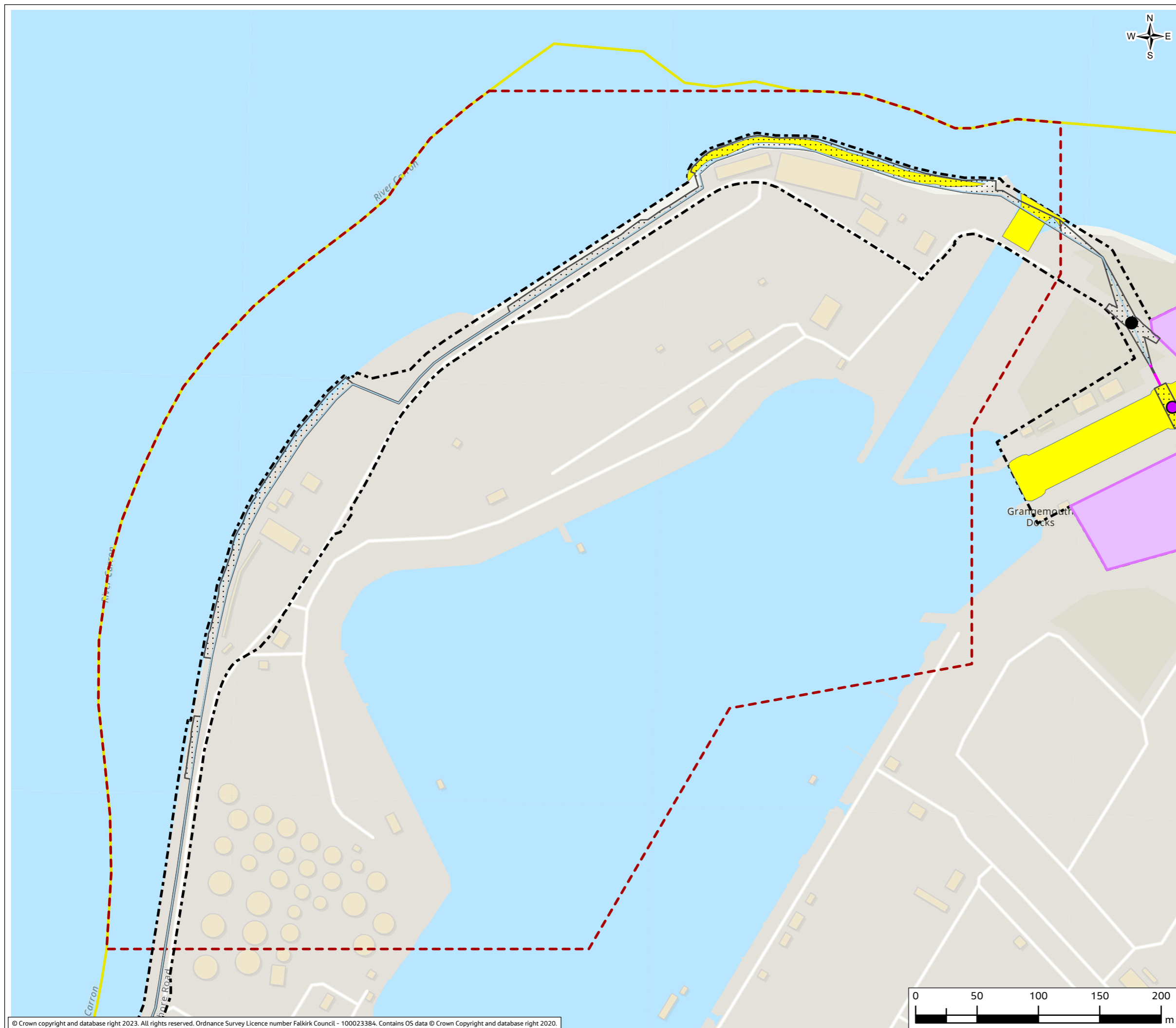
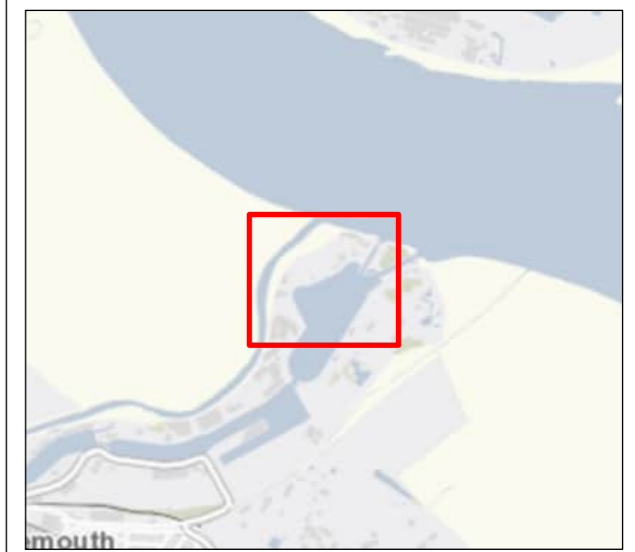


**FIGURE A4.9**



**Legend**


- Bare sheet pile wall
- Demountable defence
- Site Boundary
- Permanent Works Footprint
- Site Compounds
- In-water Working
- Flood Cell 3 Boundary
- Working Area
- Lock Gates
- Access Point - Ramps



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SHEET: 3 OF 5	

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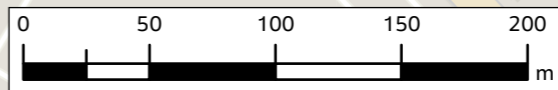
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Jacobs No.	B2386100
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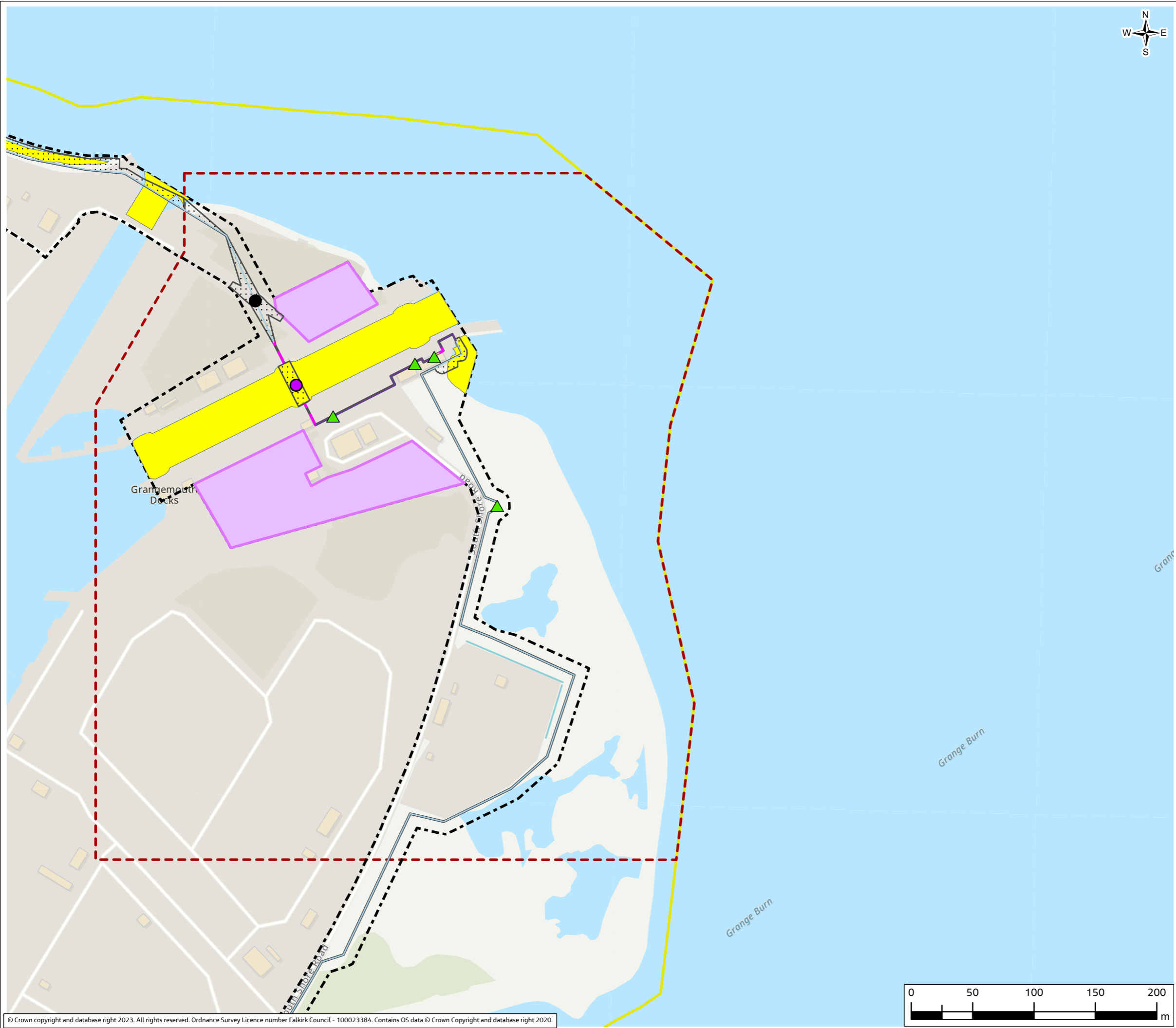
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Drawing No.	Figure A4.9
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**FIGURE A4.10**



**Legend**

- Bare sheet pile wall
- Formed concrete wall
- Plain concrete wall
- Demountable defence
- Site Boundary
- Permanent Works Footprint
- Site Compounds
- In-water Working
- Flood Cell 3 Boundary
- Working Area
- Lock Gates
- ▲ Flood Gates
- Access Point - Ramps



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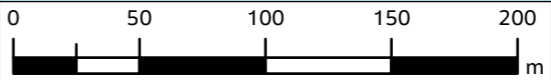
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**FIGURE A4.11**



- Legend**
-  Bare sheet pile wall
  -  Seepage
  -  Site Boundary
  -  Permanent Works Footprint
  -  Flood Cell 3 Boundary
  -  Flood Cell 4 Boundary
  -  Working Area
  -  Flood Gates



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**Project**  
Grangemouth  
Flood Protection Scheme

**Drawing Title**  
FLOOD CELL 3 - WORKING AREA 3-5: MOUTH OF THE GRANGE BURN  
ALIGNMENT AND LAYOUT

SHEET: 5 OF 5

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

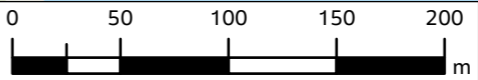
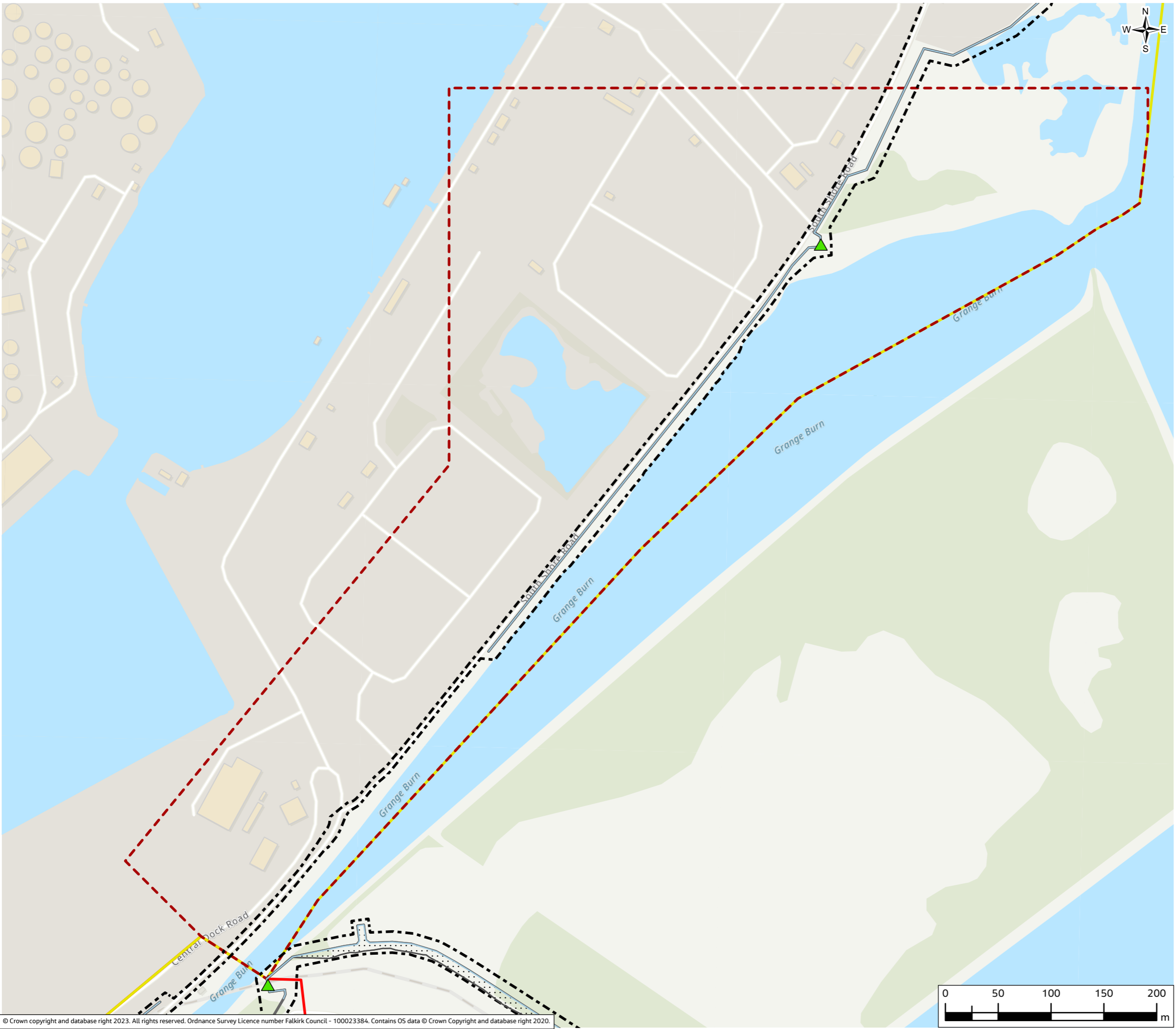
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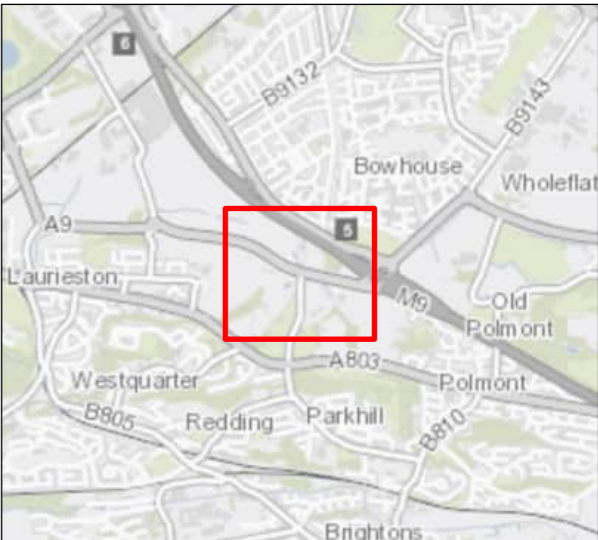
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**FIGURE A4.12**

- Legend**
-  Formed concrete wall
  -  Stone clad wall
  -  Site Boundary
  -  Site Compounds
  -  Demolished Buildings
  -  Permanent Works Footprint
  -  In-water Working
  -  Flood Cell 4 Boundary
  -  Working Area
  -  Flood Gates
  -  Access Point - Ramps



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Project

Grangemouth  
Flood Protection Scheme

Drawing Title

FLOOD CELL 4 - WORKING AREA 4-1: UPSTREAM OF M9  
ALIGNMENT AND LAYOUT

SHEET: 1 OF 9

Drawing Status

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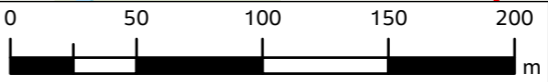
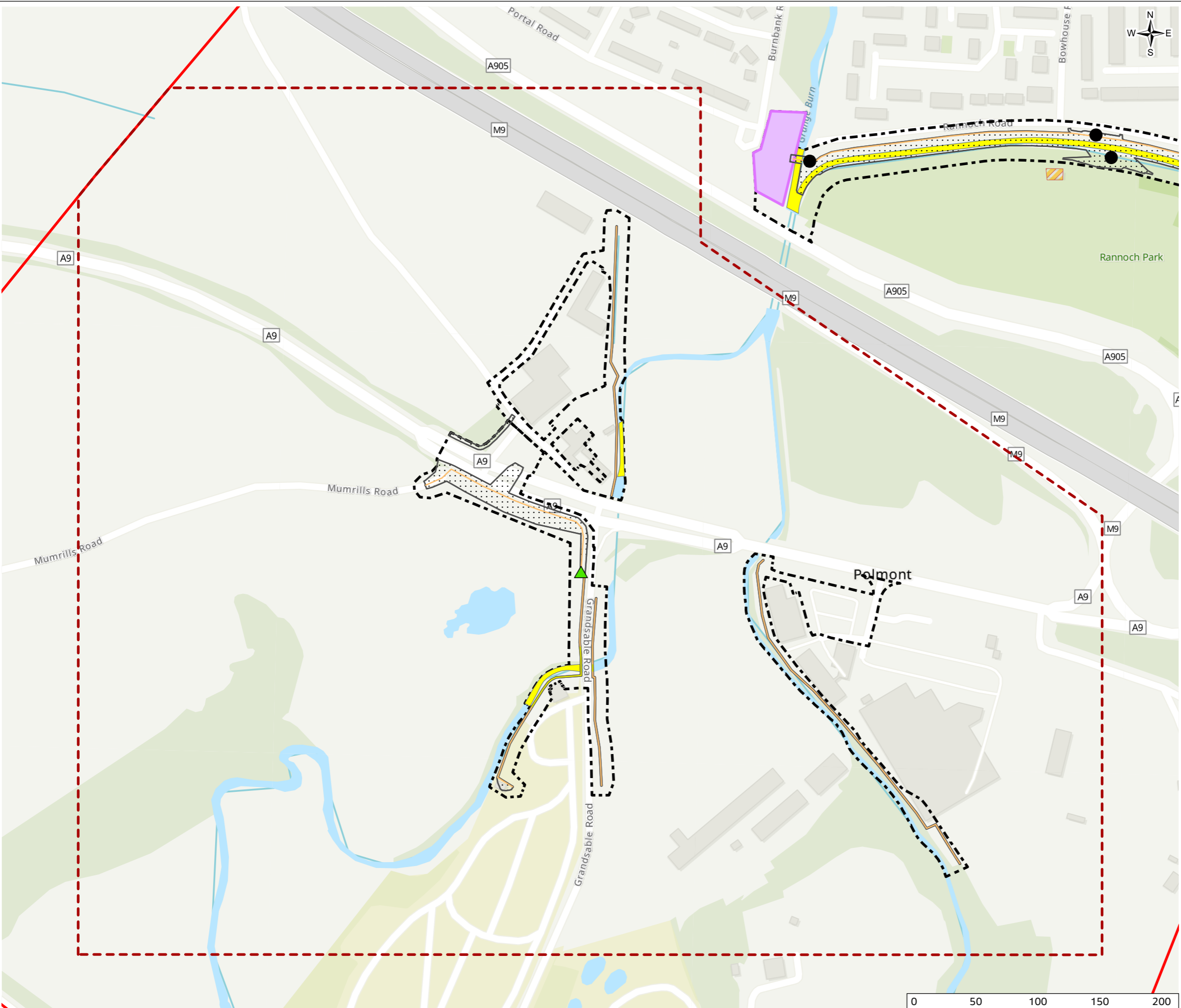
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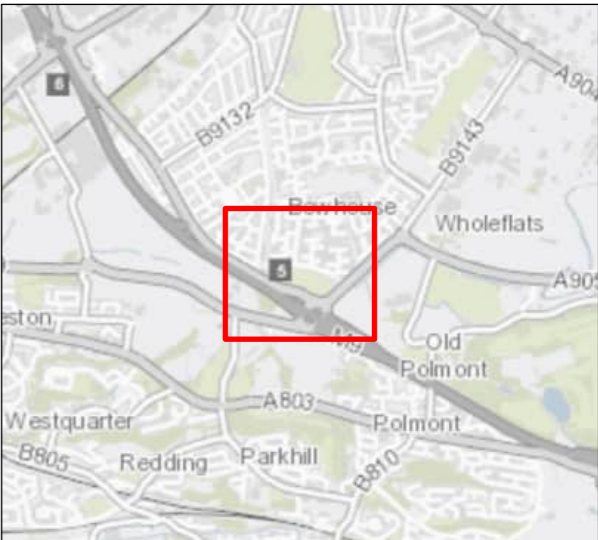
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**FIGURE A4.13**

- Legend**
-  Formed concrete wall
  -  Stone clad wall
  -  Site Boundary
  -  Site Compounds
  -  Demolished Buildings
  -  Permanent Works Footprint
  -  In-water Working
  -  Flood Cell 4 Boundary
  -  Working Area
  -  Flood Gates
  -  Access Point - Ramps



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Drawing Title: **FLOOD CELL 4 - WORKING AREA 4-2: FRC - RANNOCH PARK ALIGNMENT AND LAYOUT**

SHEET: 2 OF 9

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

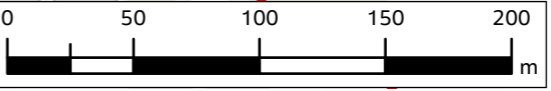
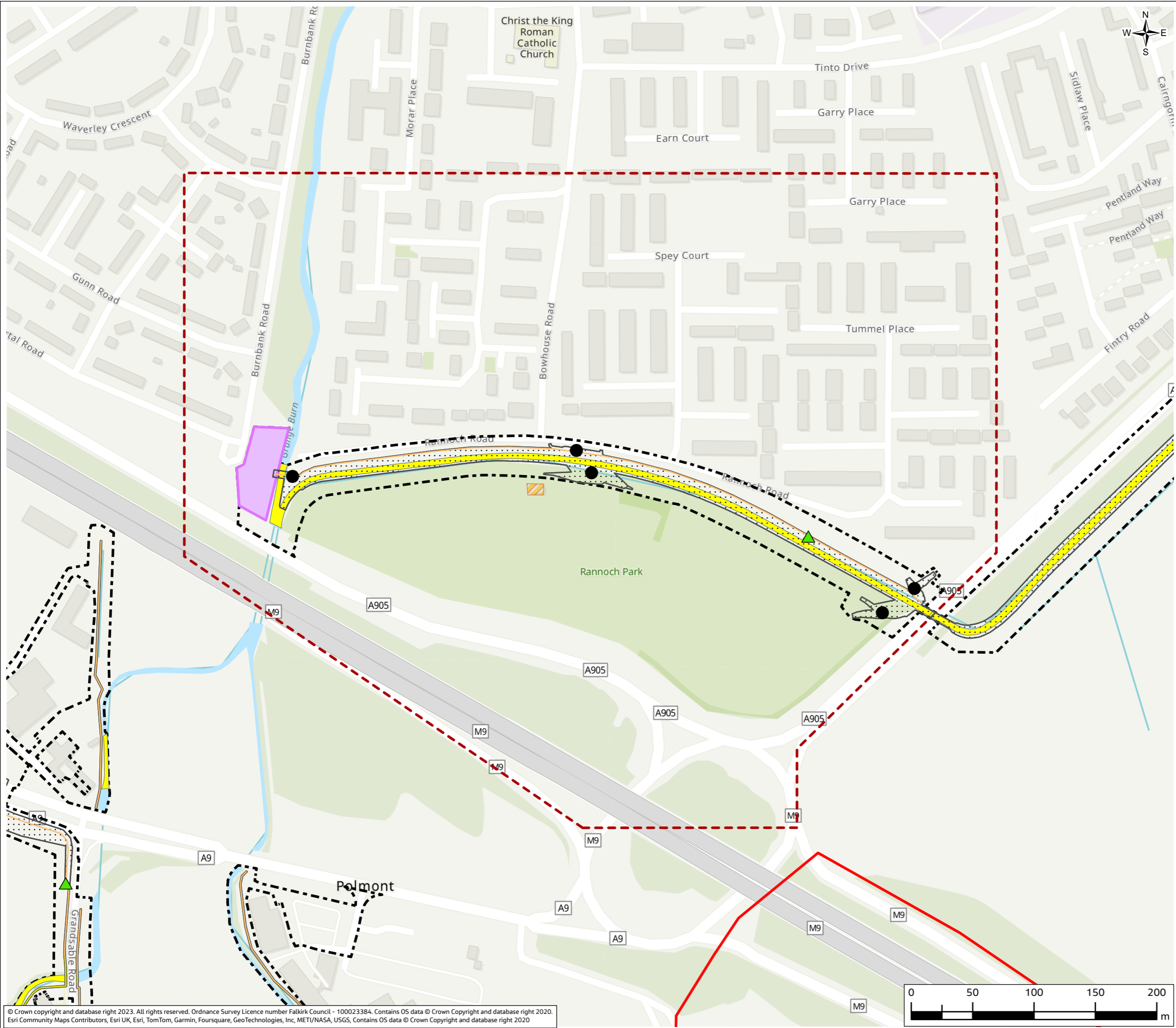
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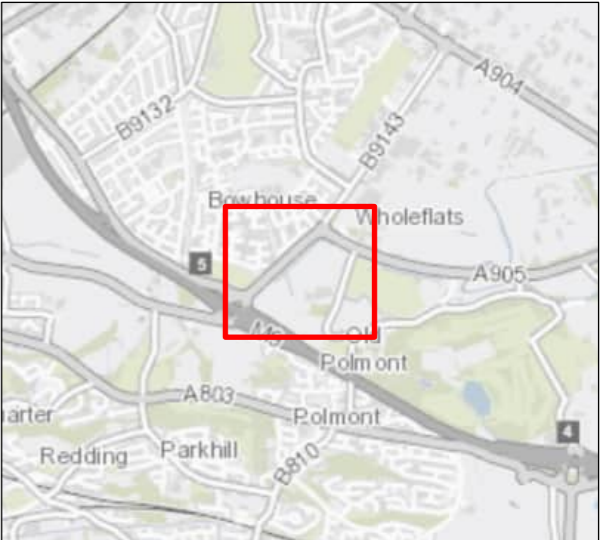
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**FIGURE A4.14**

**Legend**

- Bare sheet pile wall
- Earth embankment
- Formed concrete wall
- Local ground raising
- Site Boundary
- Site Compounds
- Permanent Works Footprint
- In-water Working
- Flood Cell 4 Boundary
- Working Area
- ▲ Flood Gates
- Access Point - Ramps



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 Project: Grangemouth Flood Protection Scheme

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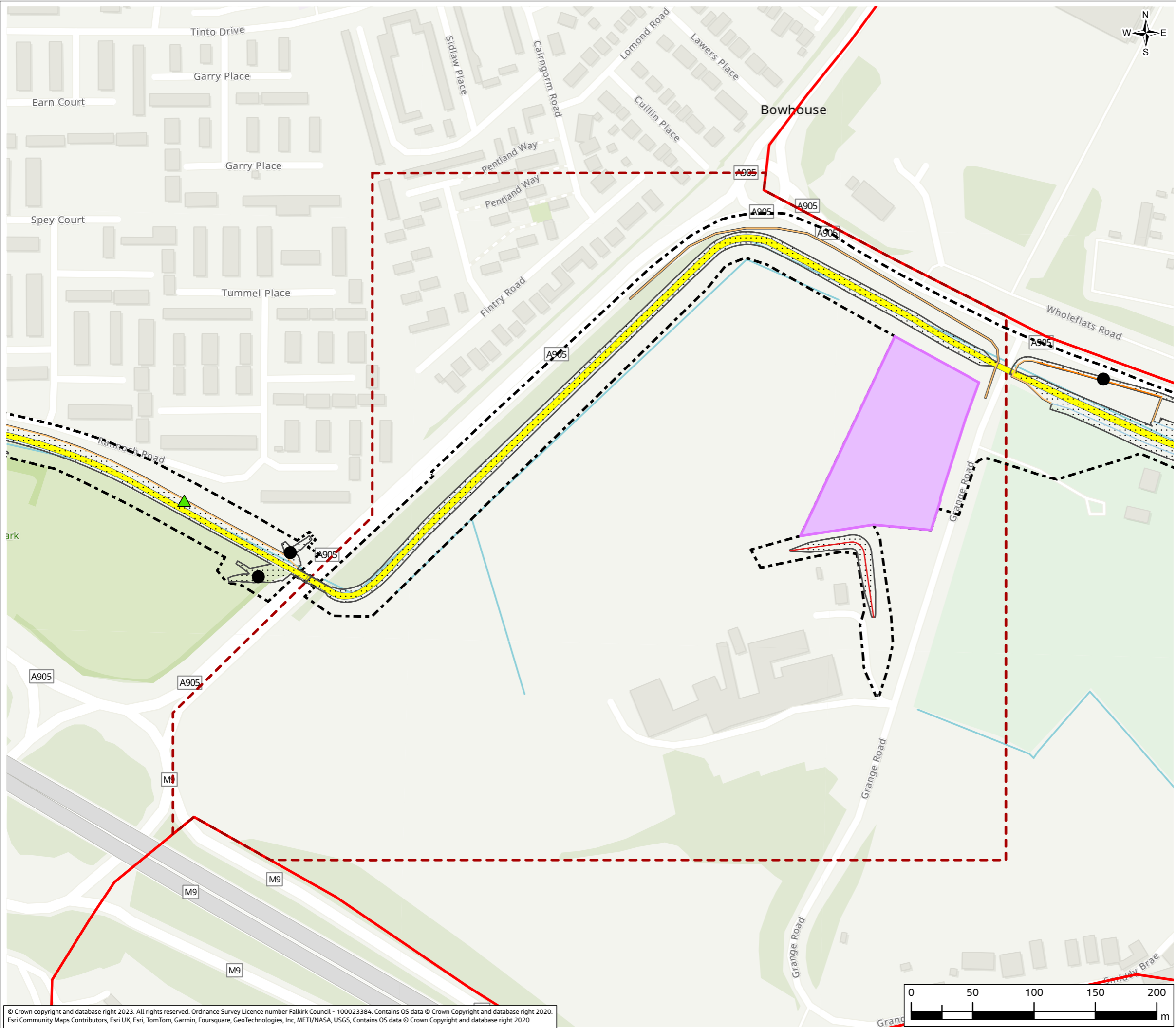
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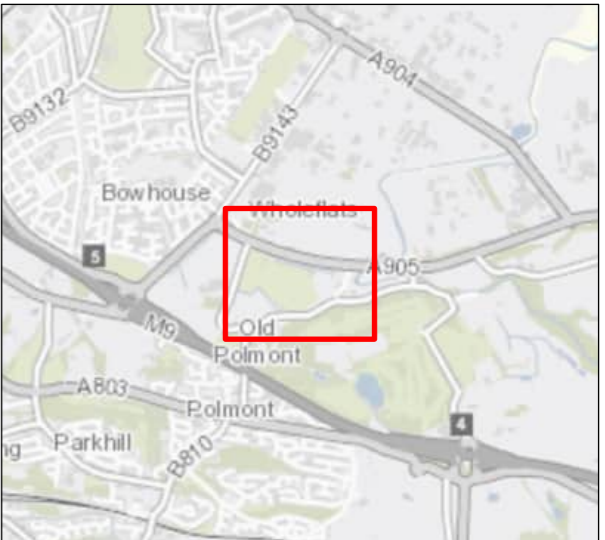


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**FIGURE A4.15**

**Legend**

- Bare sheet pile wall
- Earth embankment
- Formed concrete wall
- Local ground raising
- Replacement bridge
- Stone clad wall
- Site Boundary
- Site Compounds
- Permanent Works Footprint
- In-water Working
- Flood Cell 4 Boundary
- Flood Cell 5 Boundary
- Working Area
- ▲ Flood Gates
- Access Point - Ramps



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Drawing Title: **FLOOD CELL 4 - WORKING AREA 4-4: FRC - WHOLE-FLATS ROAD ALIGNMENT AND LAYOUT**

SHEET: 4 OF 9

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

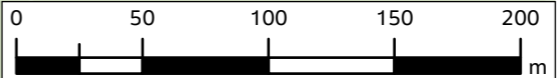
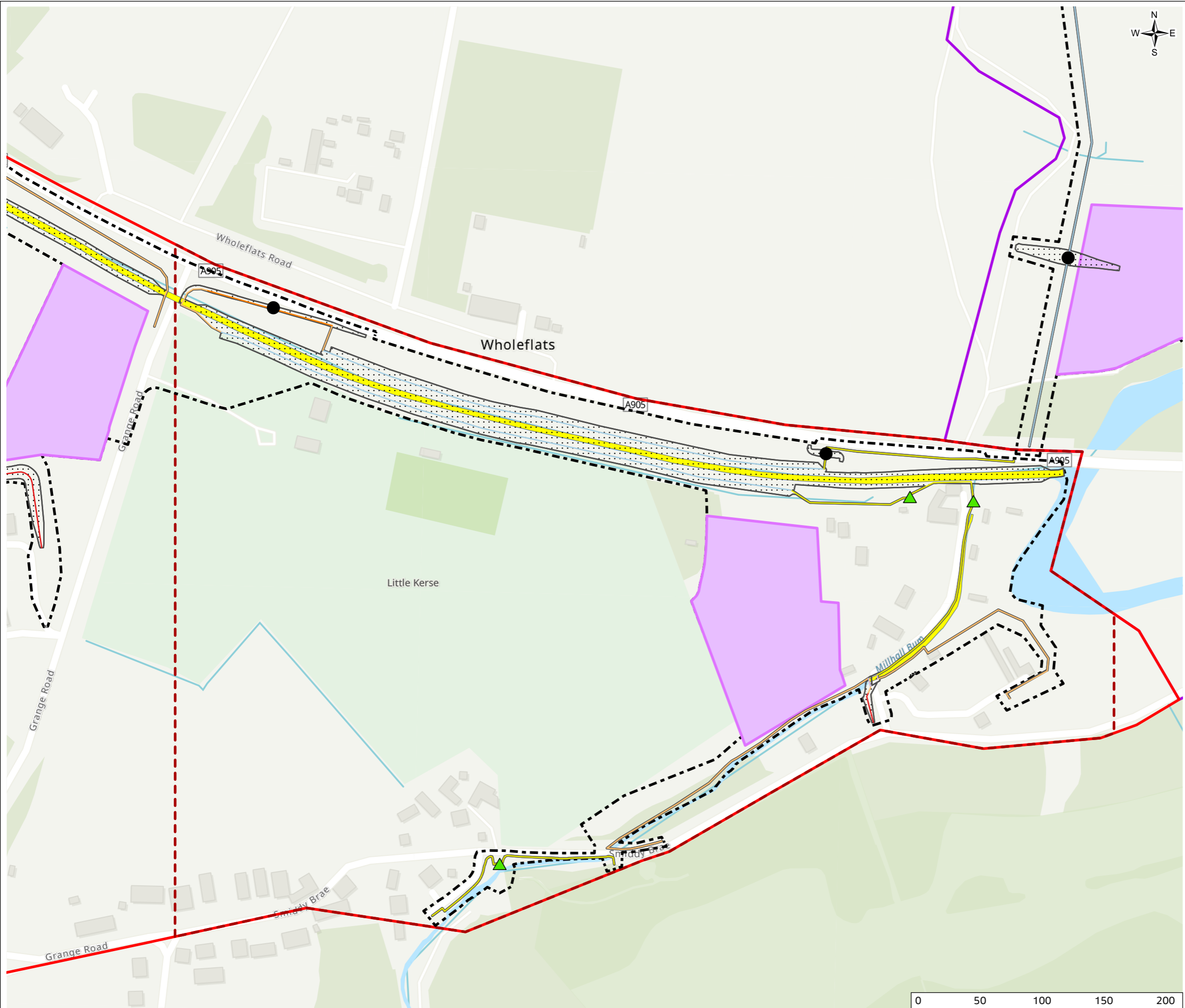
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**FIGURE A4.16**

- Legend**
- Earth embankment
  - Replacement bridge
  - Stone clad wall
  - Site Boundary
  - Demolished Buildings
  - Permanent Works Footprint
  - In-water Working
  - Flood Cell 4 Boundary
  - Working Area
  - ▲ Flood Gates
  - Access Point - Ramps
  - Existing Zetland Park Kiosk
  - Replacement Zetland Park Kiosk



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**Project**  
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 Flood Protection Scheme

**Drawing Title**  
 FLOOD CELL 4 - WORKING AREA 4-5: GB - ZETLAND PARK  
 ALIGNMENT AND LAYOUT

SHEET: 5 OF 9

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

**Scale @ A3** 1:2,000 DO NOT SCALE

**Jacobs No.** B2386100

**Drawing No.** Figure A4.16

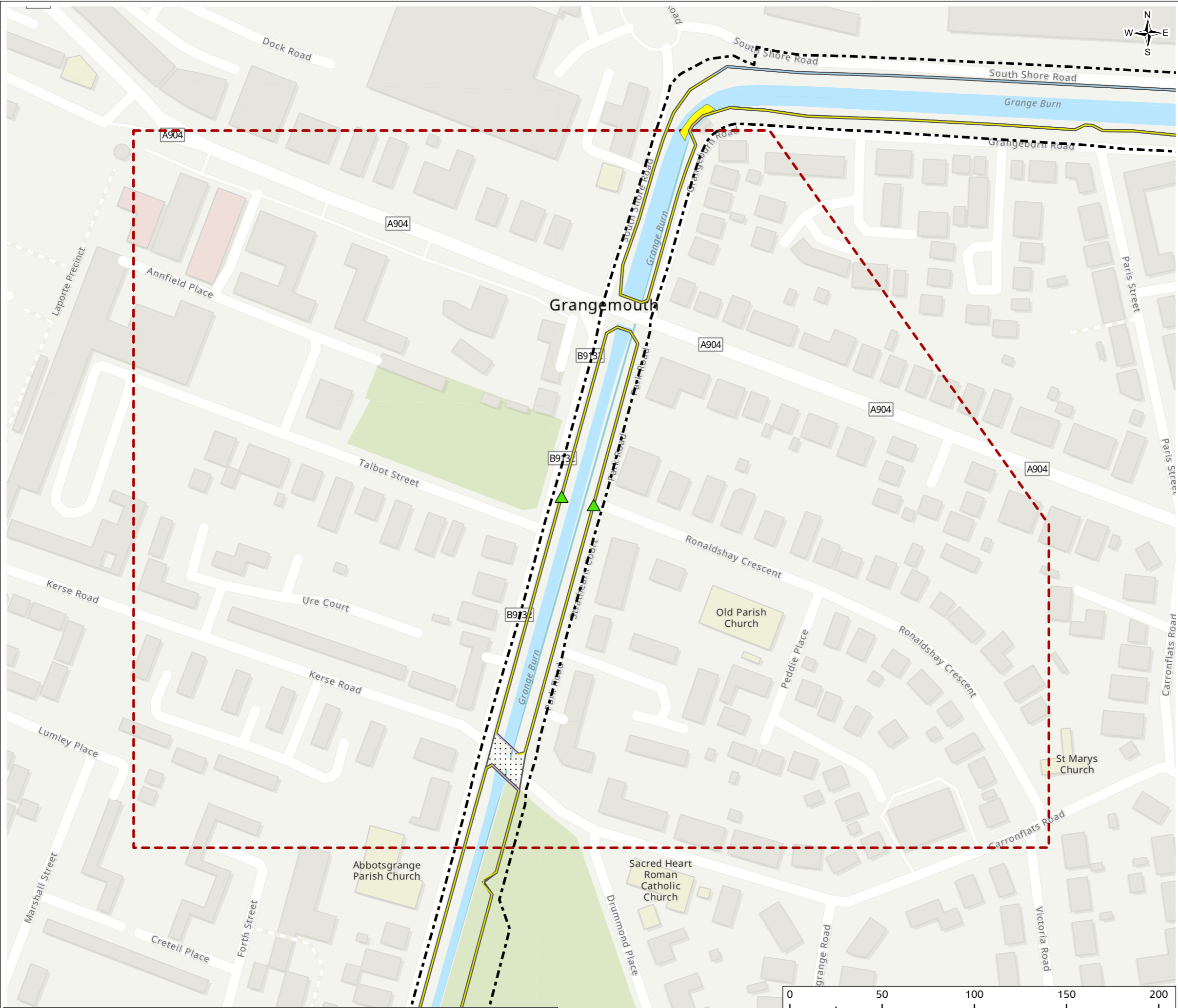
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**FIGURE A4.17**

- Legend**
- Bare sheet pile wall
  - Formed concrete wall
  - Replacement bridge
  - Stone clad wall
  - Site Boundary
  - Permanent Works Footprint
  - In-water Working
  - Flood Cell 4 Boundary
  - Working Area
  - ▲ Flood Gates



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**Project**  
Grangemouth  
Flood Protection Scheme

**Drawing Title**  
FLOOD CELL 4 - WORKING AREA 4-6: GB - DALGRAIN TO BO'NESS ROAD  
ALIGNMENT AND LAYOUT

SHEET: 6 OF 9

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

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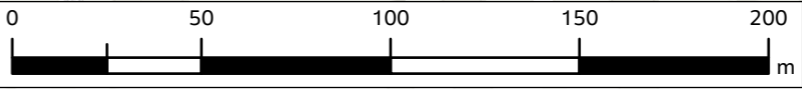
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Figure A4.17

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**FIGURE A4.18**

- Legend**
- Bare sheet pile wall
  - Formed concrete wall
  - Stone clad wall
  - Site Boundary
  - Permanent Works Footprint
  - In-water Working
  - Flood Cell 3 Boundary
  - Flood Cell 4 Boundary
  - Working Area
  - ▲ Flood Gates



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**Project**  
 Grangemouth  
 Flood Protection Scheme

**Drawing Title**  
 FLOOD CELL 4 - WORKING AREA 4-7: GB - GRANGEBURN ROAD  
 ALIGNMENT AND LAYOUT

SHEET: 7 OF 9

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

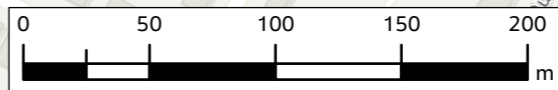
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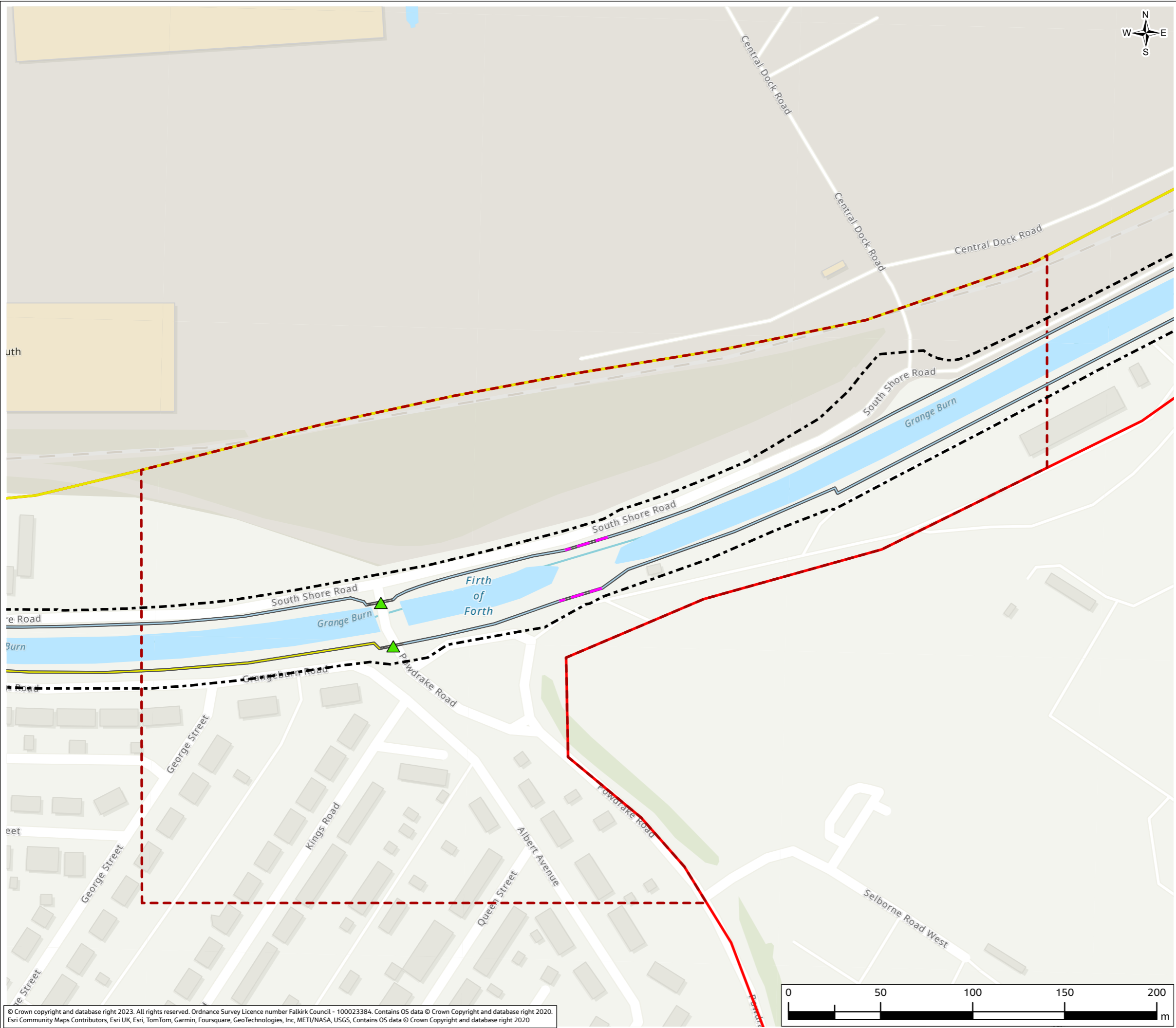


**FIGURE A4.19**



**Legend**

- Bare sheet pile wall
- Stone clad wall
- Demountable defence
- Site Boundary
- Permanent Works Footprint
- Flood Cell 3 Boundary
- Flood Cell 4 Boundary
- Working Area
- ▲ Flood Gates



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**Project**

**Grangemouth  
Flood Protection Scheme**

**Drawing Title**

**FLOOD CELL 4 - WORKING AREA 4-8: GB - PETROINEOS  
ALIGNMENT AND LAYOUT**

SHEET: 8 OF 9

**Drawing Status**

**S8-SUITABLE FOR STATUTORY CONSENT**

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1:2,000

DO NOT SCALE

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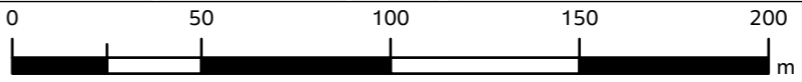
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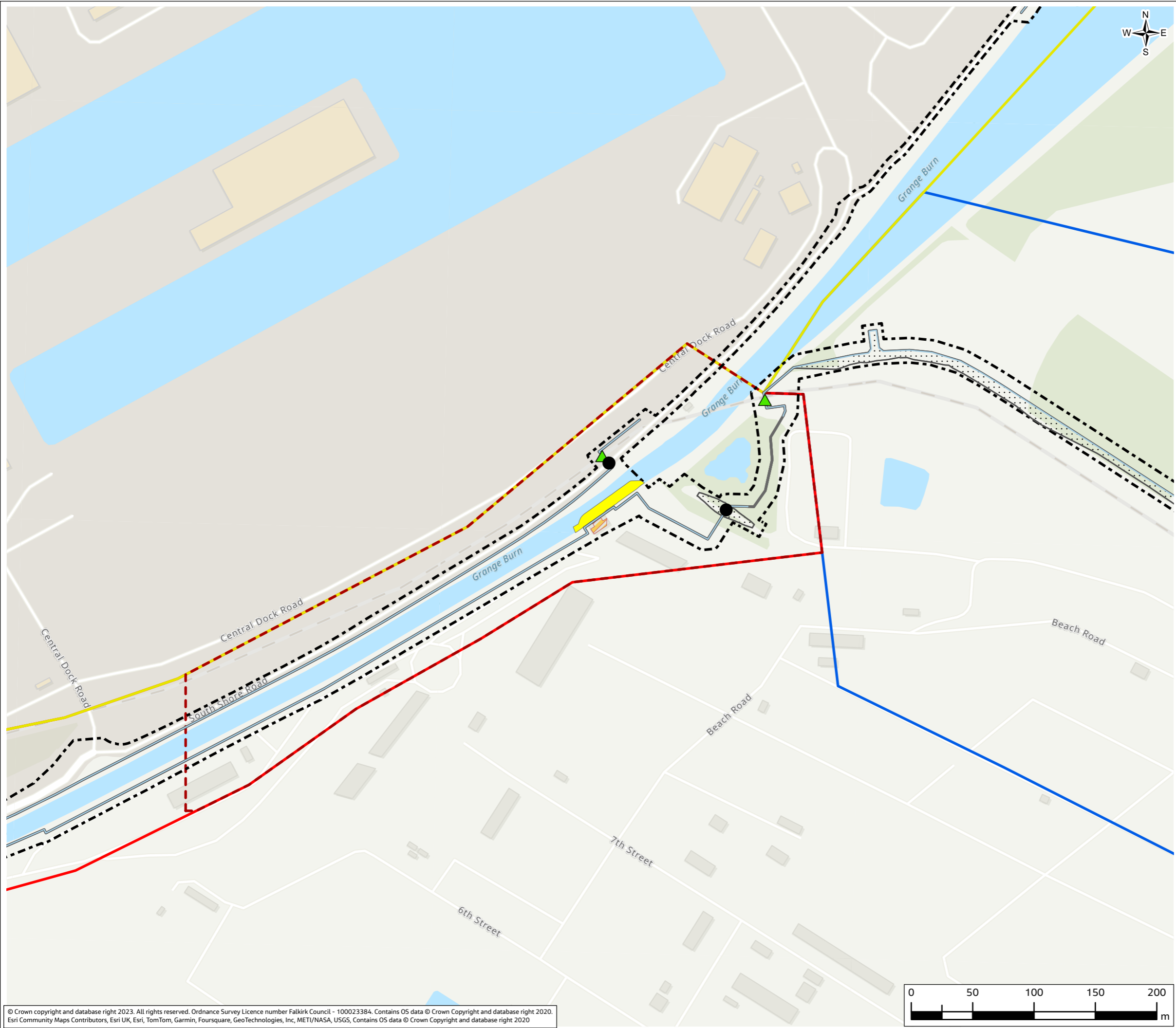
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**FIGURE A4.20**




- Legend**
- Bare sheet pile wall
  - Seepage
  - Site Boundary
  - Demolished Buildings
  - Permanent Works Footprint
  - In-water Working
  - Flood Cell 3 Boundary
  - Flood Cell 4 Boundary
  - Flood Cell 6 Boundary
  - Working Area
  - ▲ Flood Gates
  - Access Point - Ramps



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Drawing Title	FLOOD CELL 4 - WORKING AREA 4-9: GB - MOUTH OF GB ALIGNMENT AND LAYOUT
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SHEET: 9 OF 9

Drawing Status	S8-SUITABLE FOR STATUTORY CONSENT
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**FIGURE A4.21**

**Legend**

- Bare sheet pile wall
- Earth embankment
- Formed concrete wall
- Replacement bridge
- Stone clad wall
- Site Boundary
- Site Compounds
- Permanent Works Footprint
- In-water Working
- Flood Cell 4 Boundary
- Flood Cell 5 Boundary
- Working Area
- ▲ Flood Gates
- Access Point - Ramps



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	SHEET: 1 OF 4

Drawing Status	S8-SUITABLE FOR STATUTORY CONSENT
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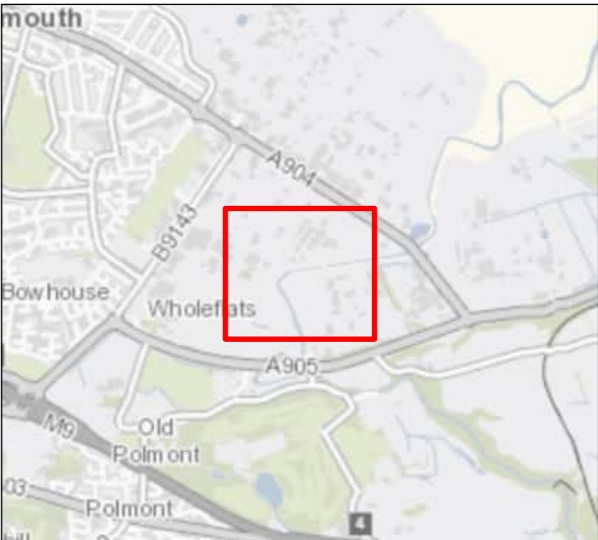




**FIGURE A4.22**

**Legend**



-  Bare sheet pile wall
-  Seepage
-  Site Boundary
-  Site Compounds
-  Permanent Works Footprint
-  In-water Working
-  Flood Cell 5 Boundary
-  Working Area
-  Flood Gates
-  Access Point - Ramps



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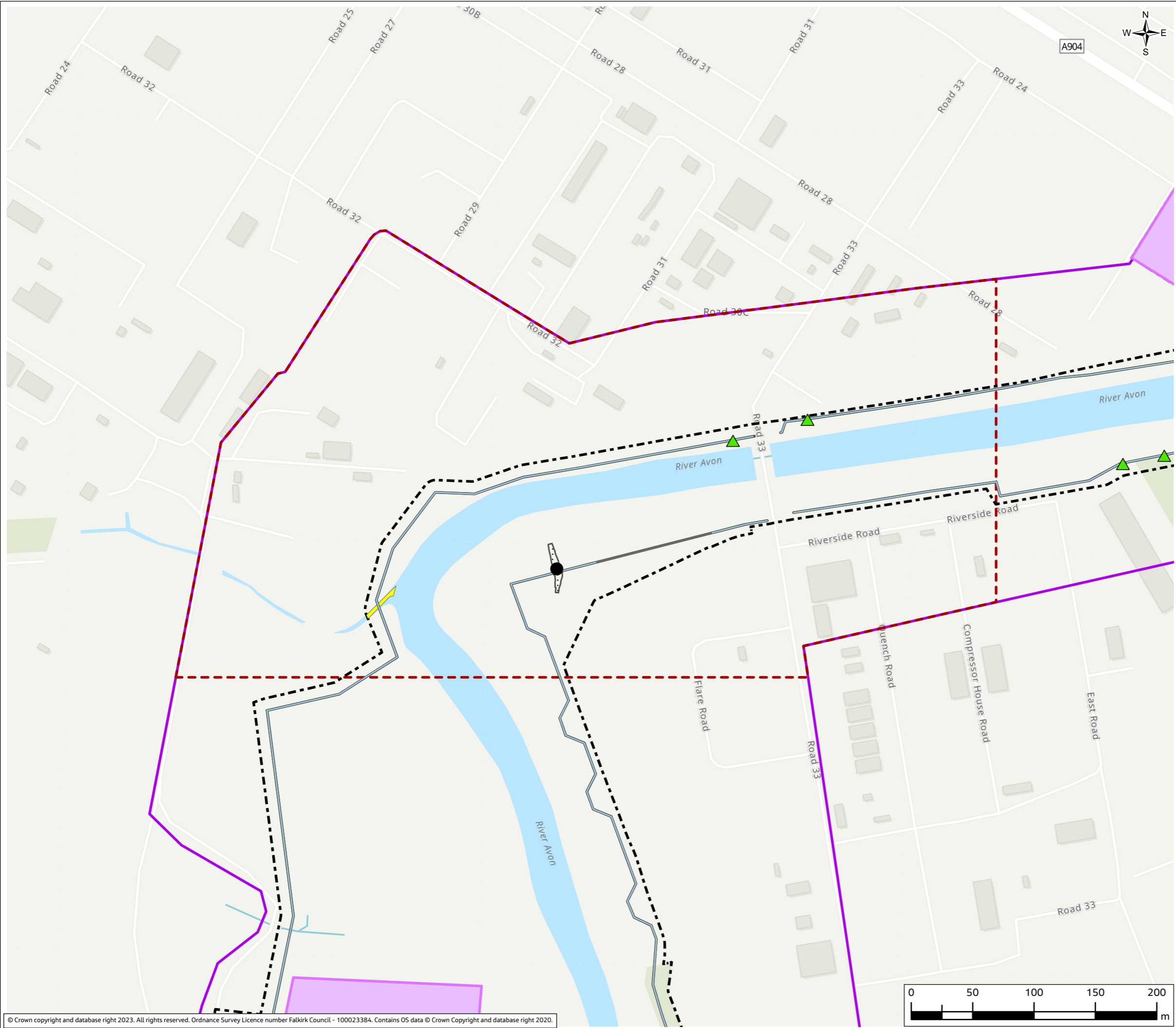
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WORKING AREA 5-2: FLARE ROAD & ROAD 33  
ALIGNMENT AND LAYOUT  
SHEET: 2 OF 4

**Drawing Status**  
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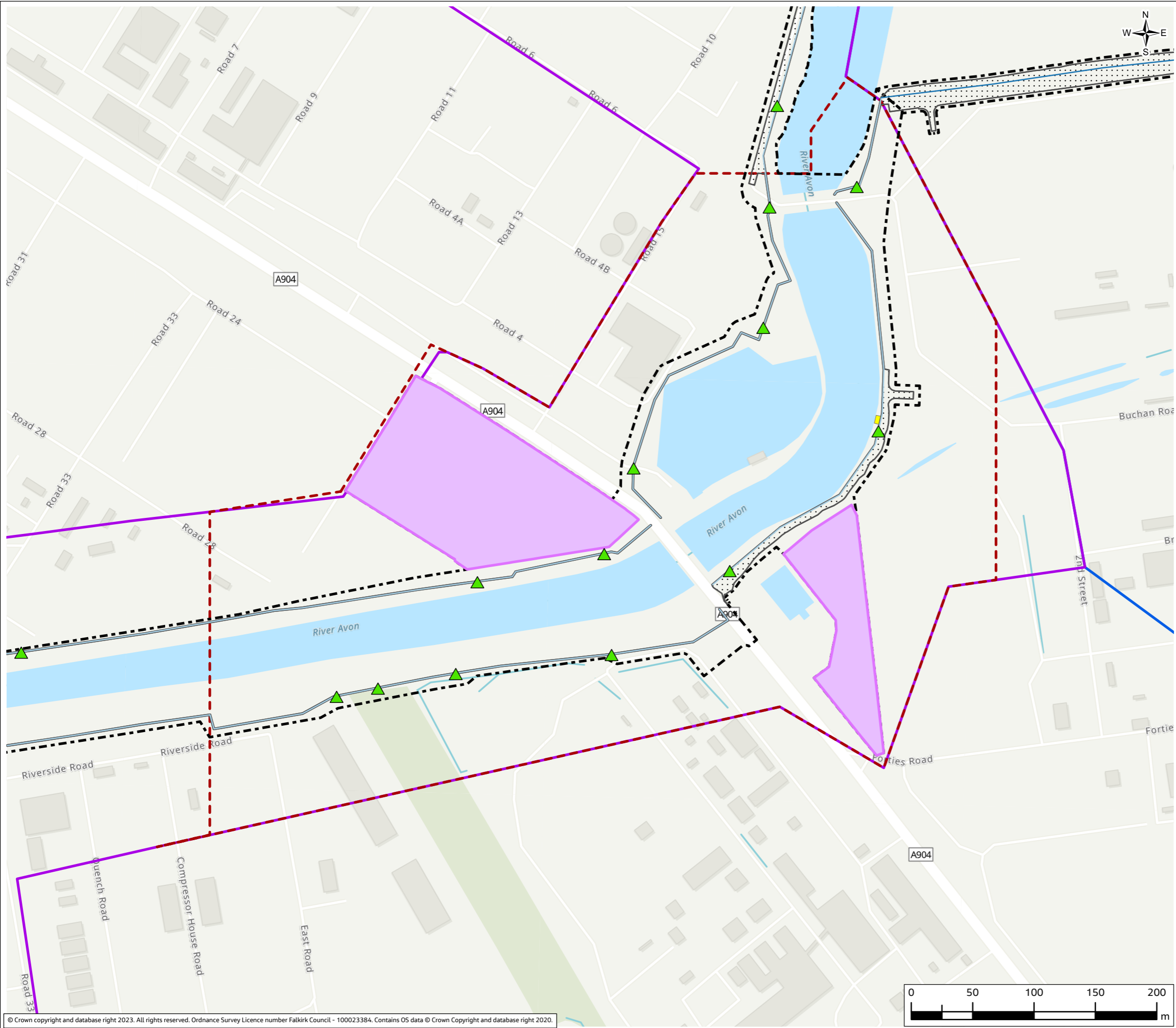
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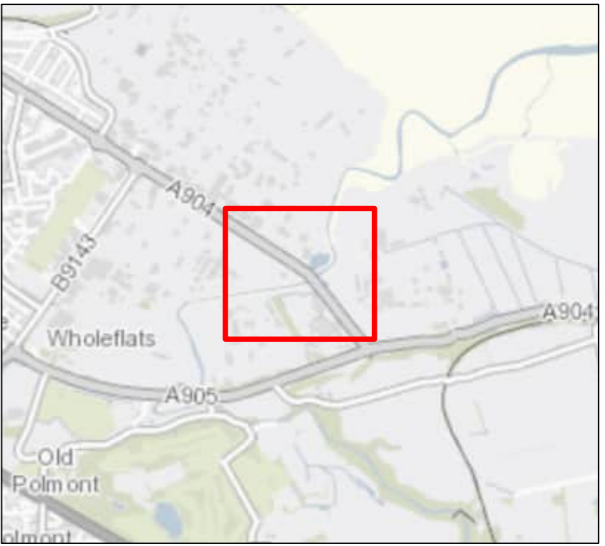
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**FIGURE A4.23**



- Legend**
- Bare sheet pile wall
  - Bare sheet pile wall with earth embankment against it
  - Site Boundary
  - Site Compounds
  - Permanent Works Footprint
  - In-water Working
  - Flood Cell 5 Boundary
  - Flood Cell 6 Boundary
  - Working Area
  - Flood Gates



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**Project**  
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**Drawing Title**  
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 WORKING AREA 5-3: GRANGEMOUTH ROAD  
 ALIGNMENT AND LAYOUT  
 SHEET: 3 OF 4

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

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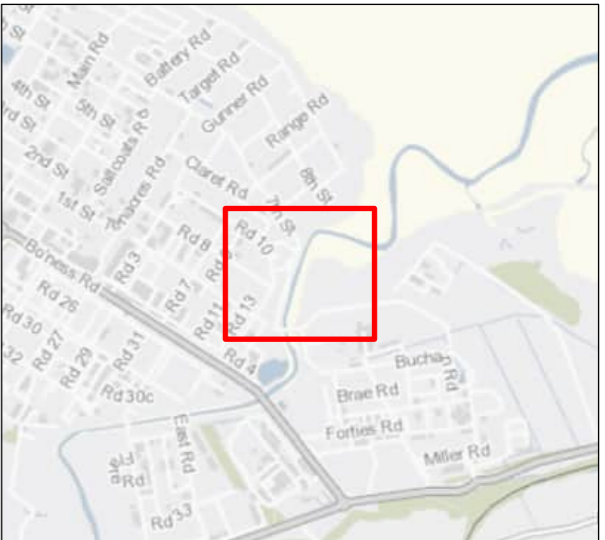
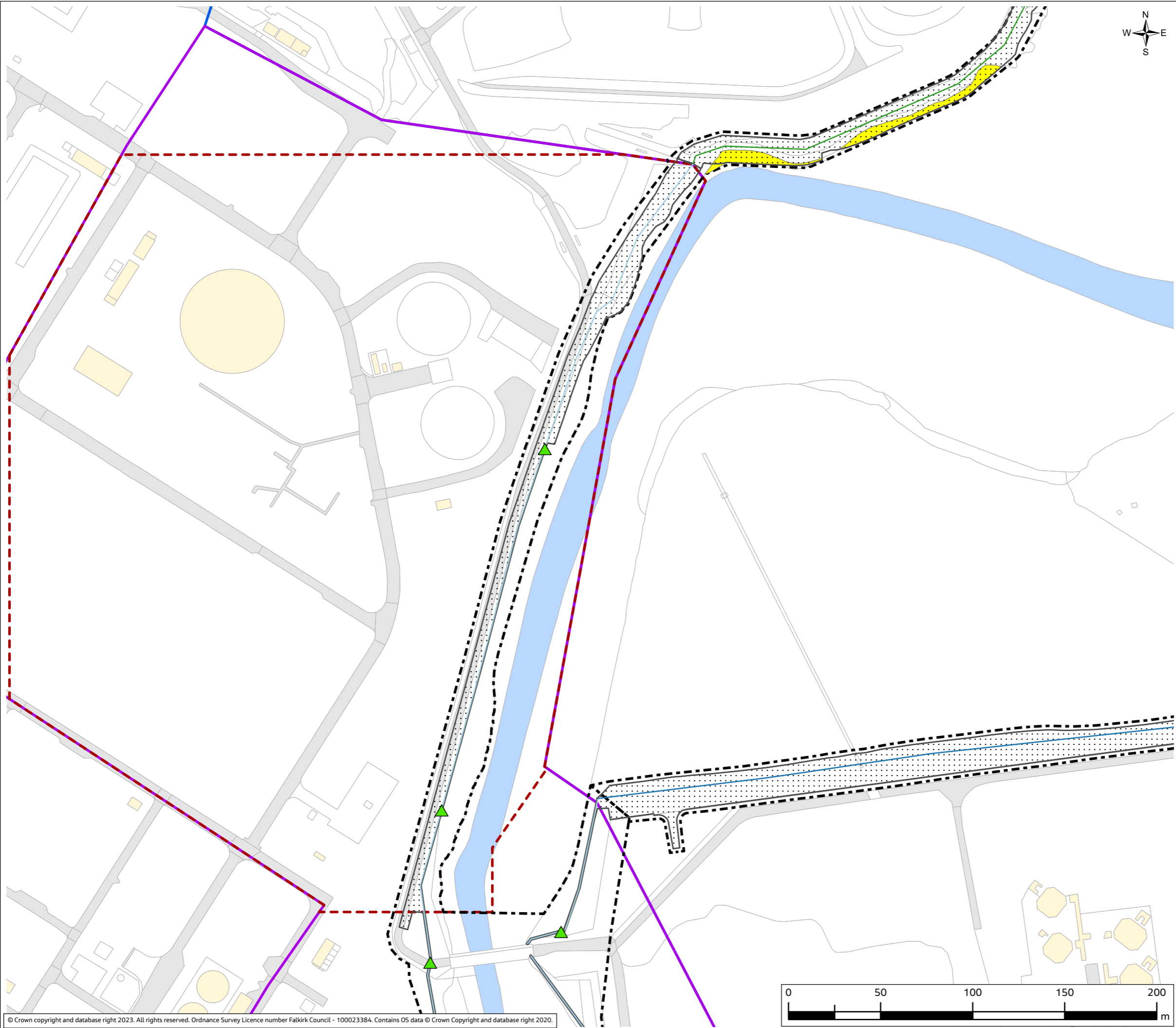
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**FIGURE A4.24**





- Legend**
- Bare sheet pile wall
  - Bare sheet pile wall with earth embankment against it
  - Bored pile
  - Site Boundary
  - Permanent Works Footprint
  - In-water Working
  - Flood Cell 5 Boundary
  - Flood Cell 6 Boundary
  - Working Area
  - ▲ Flood Gates



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Project **Grangemouth Flood Protection Scheme**

Drawing Title **FLOOD CELL 5 - WORKING AREA 5-4: MOUTH OF RIVER AVON ALIGNMENT AND LAYOUT**

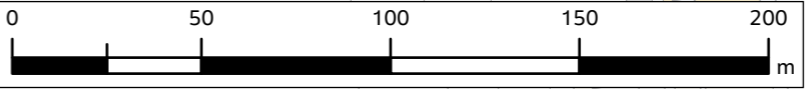
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**FIGURE A4.25**



**Legend**

- Bare sheet pile wall
- Bored pile
- Seepage
- New Culverts
- Site Boundary
- Demolished Buildings
- Permanent Works Footprint
- In-water Working
- Flood Cell 3 Boundary
- Flood Cell 4 Boundary
- Flood Cell 6 Boundary
- Working Area
- ▲ Flood Gates
- Access Point - Ramps



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Project	Grangemouth Flood Protection Scheme
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Drawing Title	FLOOD CELL 6 - WORKING AREA 6-1: BEACH ROAD ALIGNMENT AND LAYOUT
SHEET:	1 OF 4

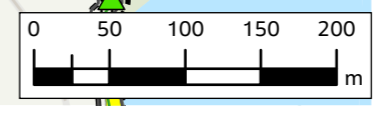
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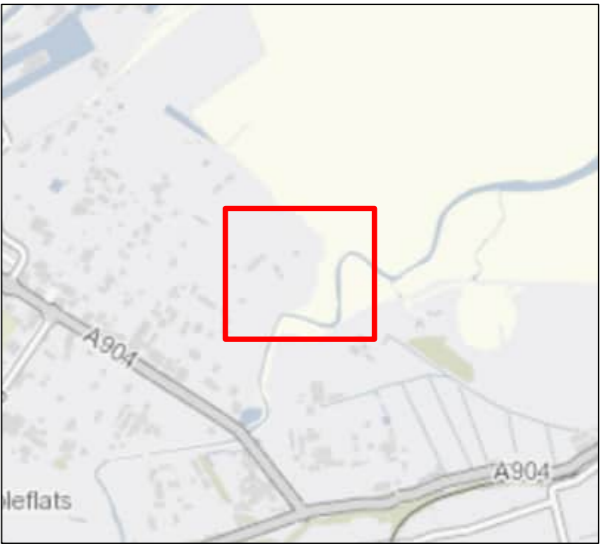
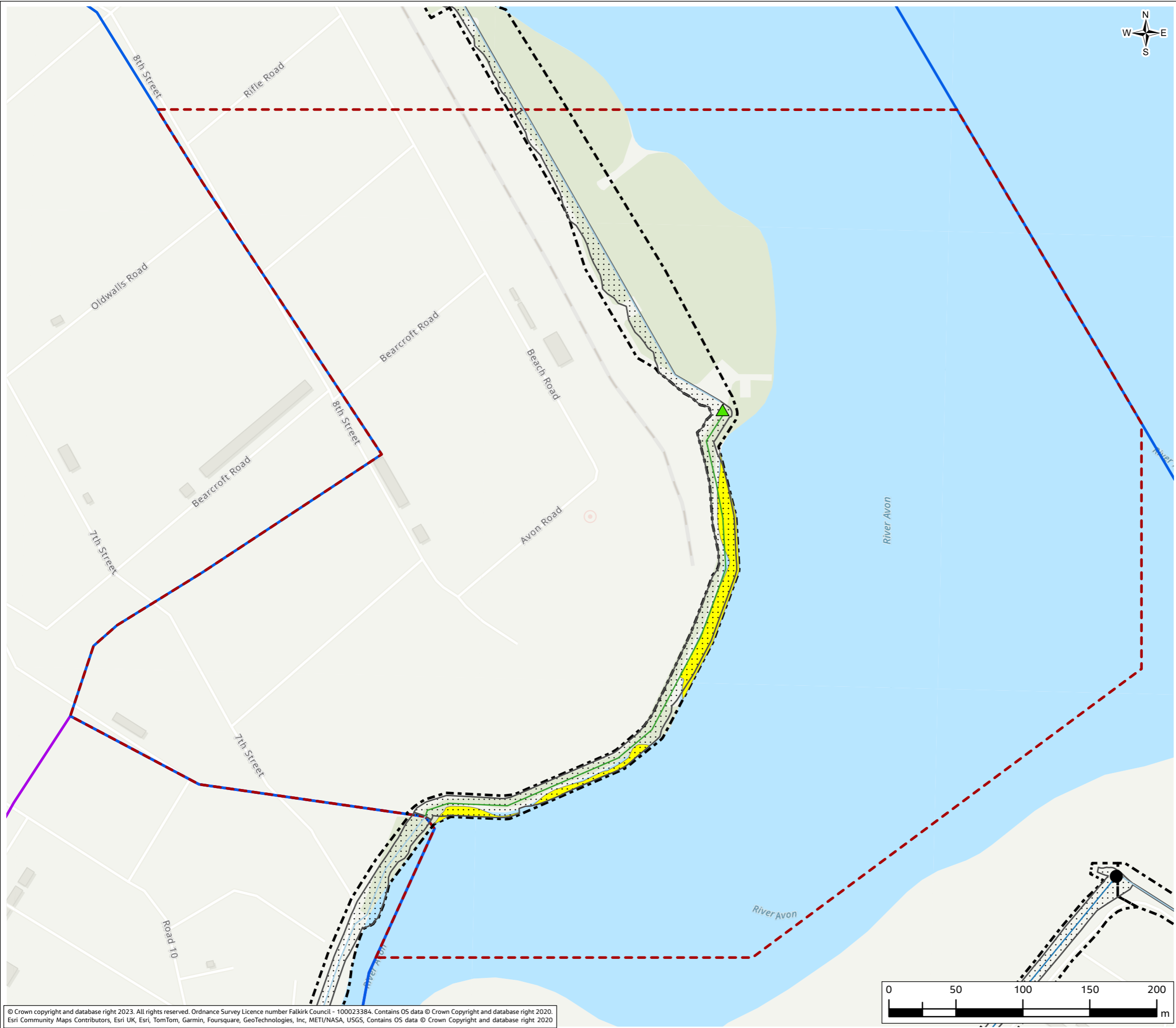
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**FIGURE A4.26**





- Legend**
- Bare sheet pile wall
  - Bare sheet pile wall with earth embankment against it
  - Bored pile
  - Site Boundary
  - Permanent Works Footprint
  - In-water Working
  - Flood Cell 5 Boundary
  - Flood Cell 6 Boundary
  - Working Area
  - ▲ Flood Gates
  - Access Point - Ramps



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Project **Grangemouth Flood Protection Scheme**

Drawing Title **FLOOD CELL 6 - WORKING AREA 6-2: PETROINEOS MOUTH OF RIVER AVON ALIGNMENT AND LAYOUT**

SHEET: 2 OF 4

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

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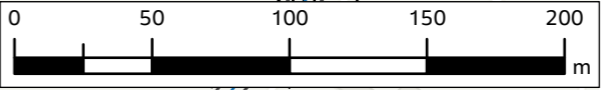
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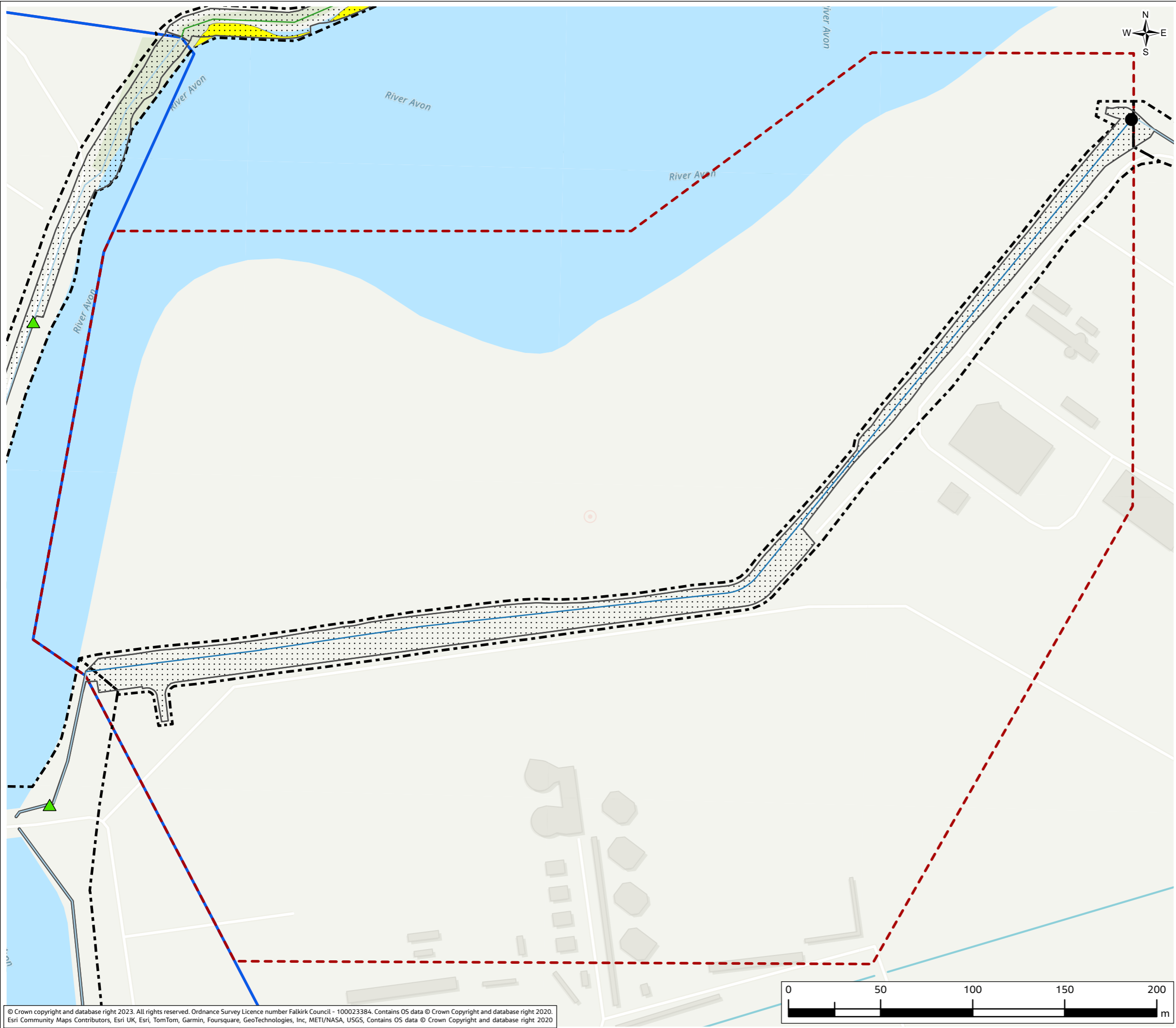
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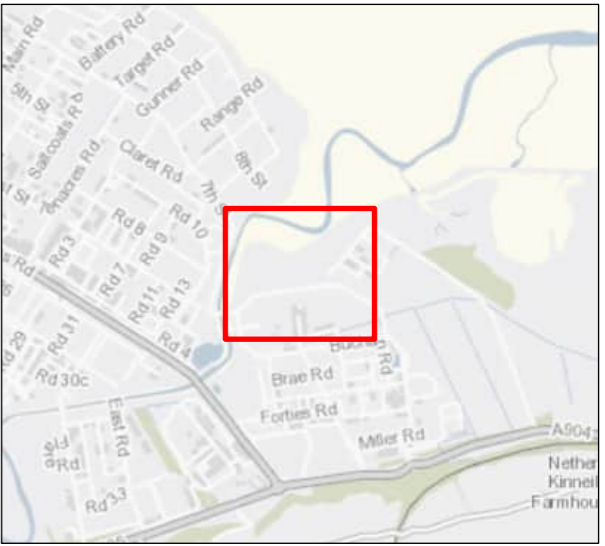
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**FIGURE A4.27**




- Legend**
- Bare sheet pile wall
  - Bare sheet pile wall with earth embankment against it
  - Bored pile
  - Site Boundary
  - Permanent Works Footprint
  - In-water Working
  - Flood Cell 5 Boundary
  - Flood Cell 6 Boundary
  - Working Area
  - ▲ Flood Gates
  - Access Point - Ramps




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**Project**

Grangemouth  
 Flood Protection Scheme

**Drawing Title**

FLOOD CELL 6 - WORKING AREA 6-3: CHEMICAL WORKS AT RIVER AVON  
 ALIGNMENT AND LAYOUT

SHEET: 3 OF 4

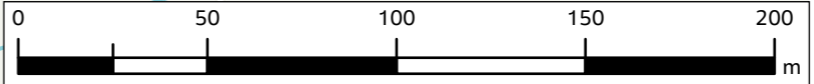
**Drawing Status** S8-SUITABLE FOR STATUTORY CONSENT

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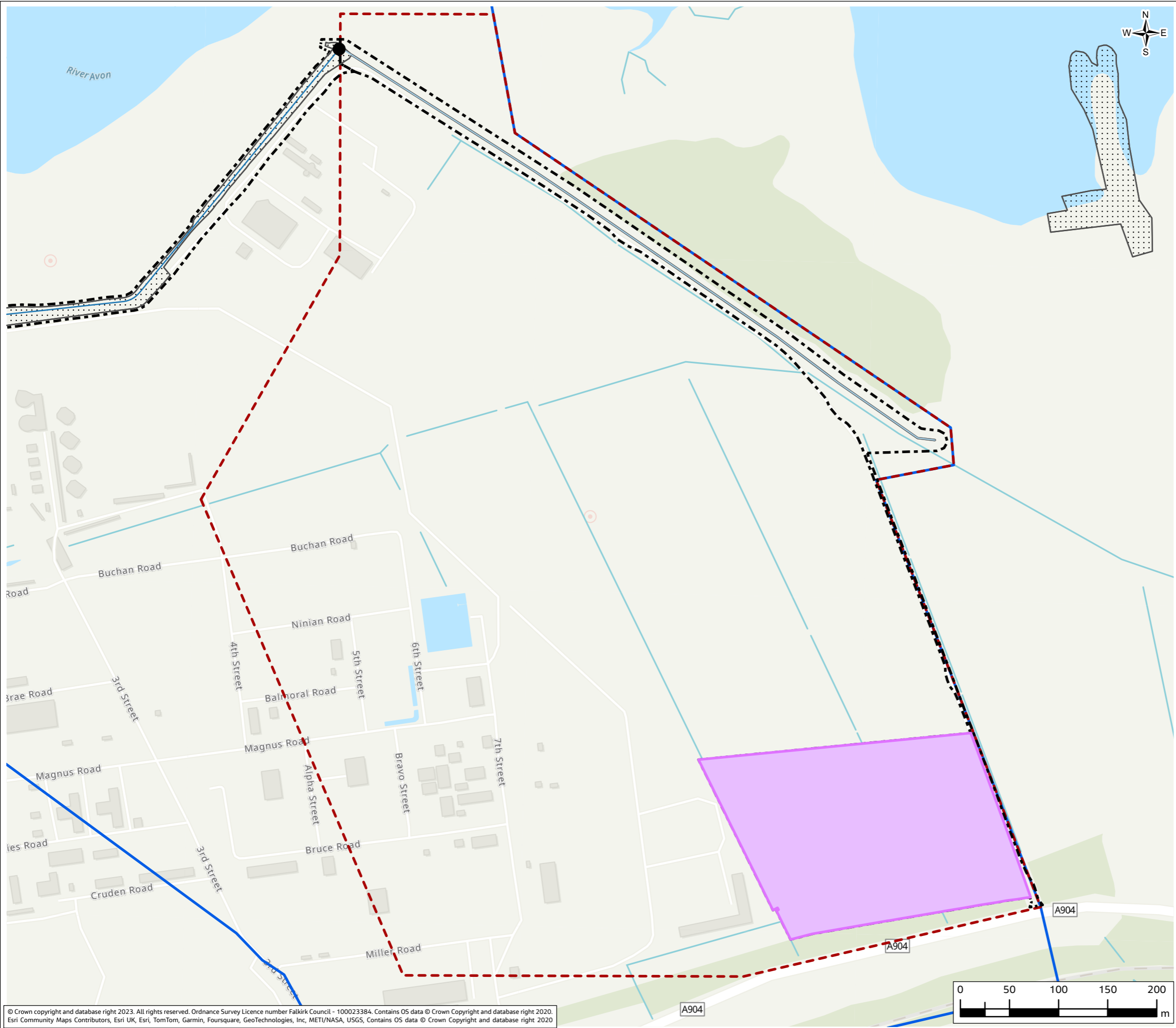
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**FIGURE A4.28**



- Legend**
- Bare sheet pile wall
  - Bare sheet pile wall with earth embankment against it
  - - - Site Boundary
  - Site Compounds
  - ⋯ Permanent Works Footprint
  - Flood Cell 6 Boundary
  - - - Working Area
  - Access Point - Ramps



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**Project**  
 Grangemouth  
 Flood Protection Scheme

**Drawing Title**  
 FLOOD CELL 6 - WORKING AREA 6-4: WATER TREATMENT WORKS  
 ALIGNMENT AND LAYOUT

SHEET: 4 OF 4

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

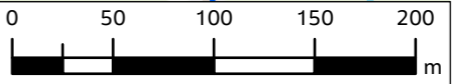
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# Environmental Impact Assessment Report

Appendix A Scheme Defence Heights (Figures A4.29 - A4.56)

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**Grangemouth Flood Protection Scheme 2024**  
**Falkirk Council**



**GRANGEMOUTH**  
Flood Protection Scheme  
Protecting the heart of our communities



## **Contents (links to appendix figures)**

Figure A4.29: Working Area 1-1 / Stirling Road

Figure A4.30: Working Area 1-2 / Carron Bridges

Figure A4.31; Working Area 1-3 / Chapel Burn

Figure A4.32: Working Area 1-4 / Dock Street

Figure A4.33: Working Area 2-1 / Forth and Clyde Canal Lock

Figure A4.34: Working Area 2-2 / Jarvie Plant/Rosco Properties

Figure A4.35: Working Area 3-1 / Mouth of the River Carron

Figure A4.36: Working Area 3-2 / West Coast of the Port

Figure A4.37: Working Area 3-3 / West Gate to the Port

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Figure A4.55: Working Area 6-3 Chemical Works at River Avon

Figure A4.56: Working Area 6 -4 / Water Treatment Works

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**FIGURE A4.29**



**Legend**

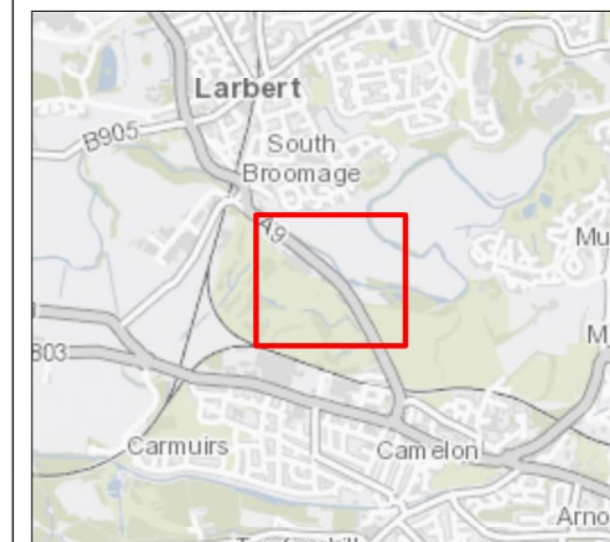
Flood defence heights (m) from existing ground level

*Height*

- 0 - 0.5
- 0.51 - 1.0
- 1.01 - 1.5
- 1.51 - 2.0
- >2.0

— Flood defence location

1.31 Flood defence heights (m) from existing ground level labels



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Drawing Title	FLOOD CELL 1 - WORKING AREA 1-1: STIRLING ROAD FLOOD DEFENCE HEIGHTS
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SHEET: 1 OF 4

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**FIGURE A4.30**

**Legend**

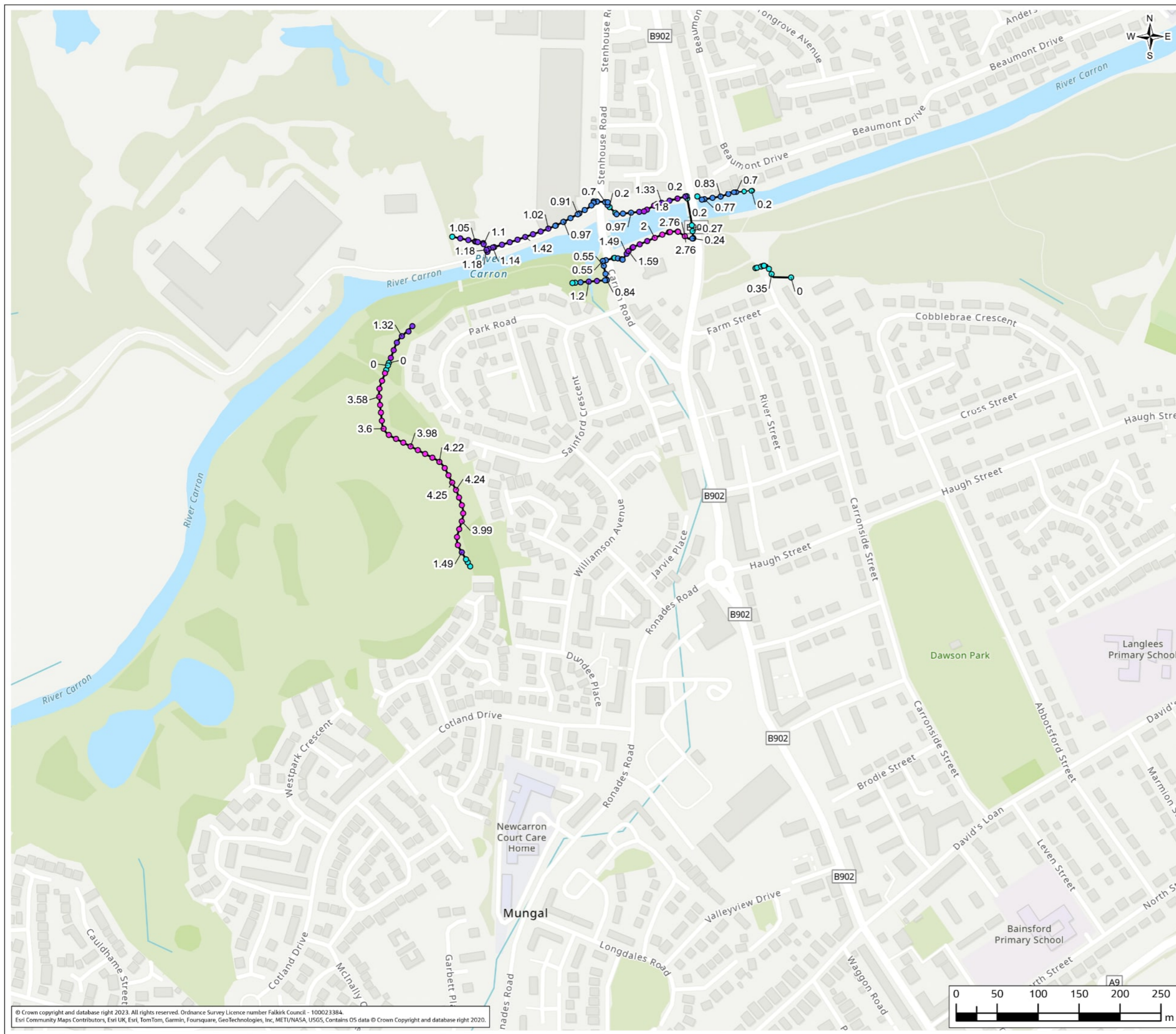
Flood defence heights (m) from existing ground level

*Height*

- 0 - 0.5
- 0.51 - 1.0
- 1.01 - 1.5
- 1.51 - 2.0
- >2.0

— Flood defence location

1.31 Flood defence heights (m) from existing ground level labels



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Drawing Title	FLOOD CELL 1 - WORKING AREA 1-2: CARRON BRIDGES FLOOD DEFENCE HEIGHTS
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**FIGURE A4.31**

**Legend**

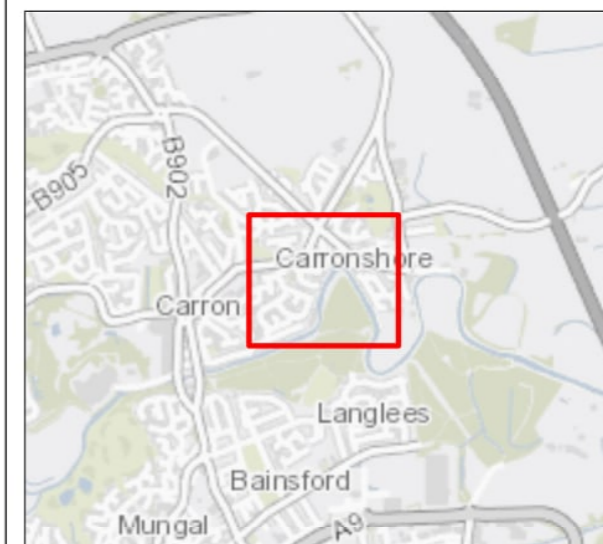
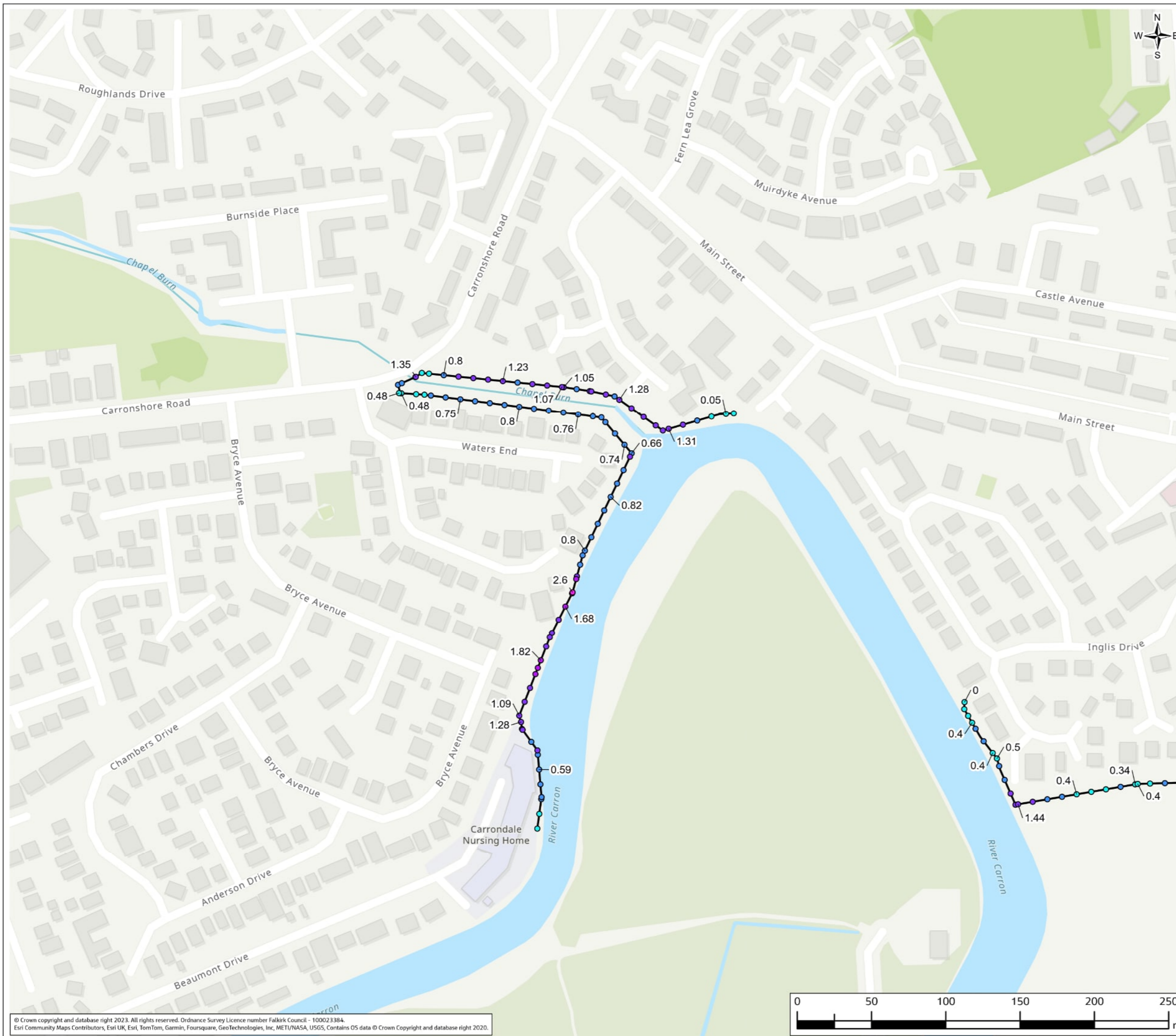
Flood defence heights (m) from existing ground level

*Height*

- 0 - 0.5
- 0.51 - 1.0
- 1.01 - 1.5
- 1.51 - 2.0
- >2.0

— Flood defence location

1:31 Flood defence heights (m) from existing ground level labels



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Drawing Title	FLOOD CELL 1 - WORKING AREA 1-3: CHAPEL BURN FLOOD DEFENCE HEIGHTS
SHEET:	3 OF 4

Drawing Status	S8-SUITABLE FOR STATUTORY CONSENT
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**FIGURE A4.32**


- Legend**
- Flood defence heights (m) from existing ground level
- Height*
- 0 - 0.5
  - 0.51 - 1.0
  - 1.01 - 1.5
  - 1.51 - 2.0
  - >2.0
- Flood defence location
- 1.31 Flood defence heights (m) from existing ground level labels



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Drawing Title	FLOOD CELL 1 - WORKING AREA 1-4: DOCK STREET FLOOD DEFENCE HEIGHTS
SHEET:	4 OF 4

Drawing Status	S8-SUITABLE FOR STATUTORY CONSENT
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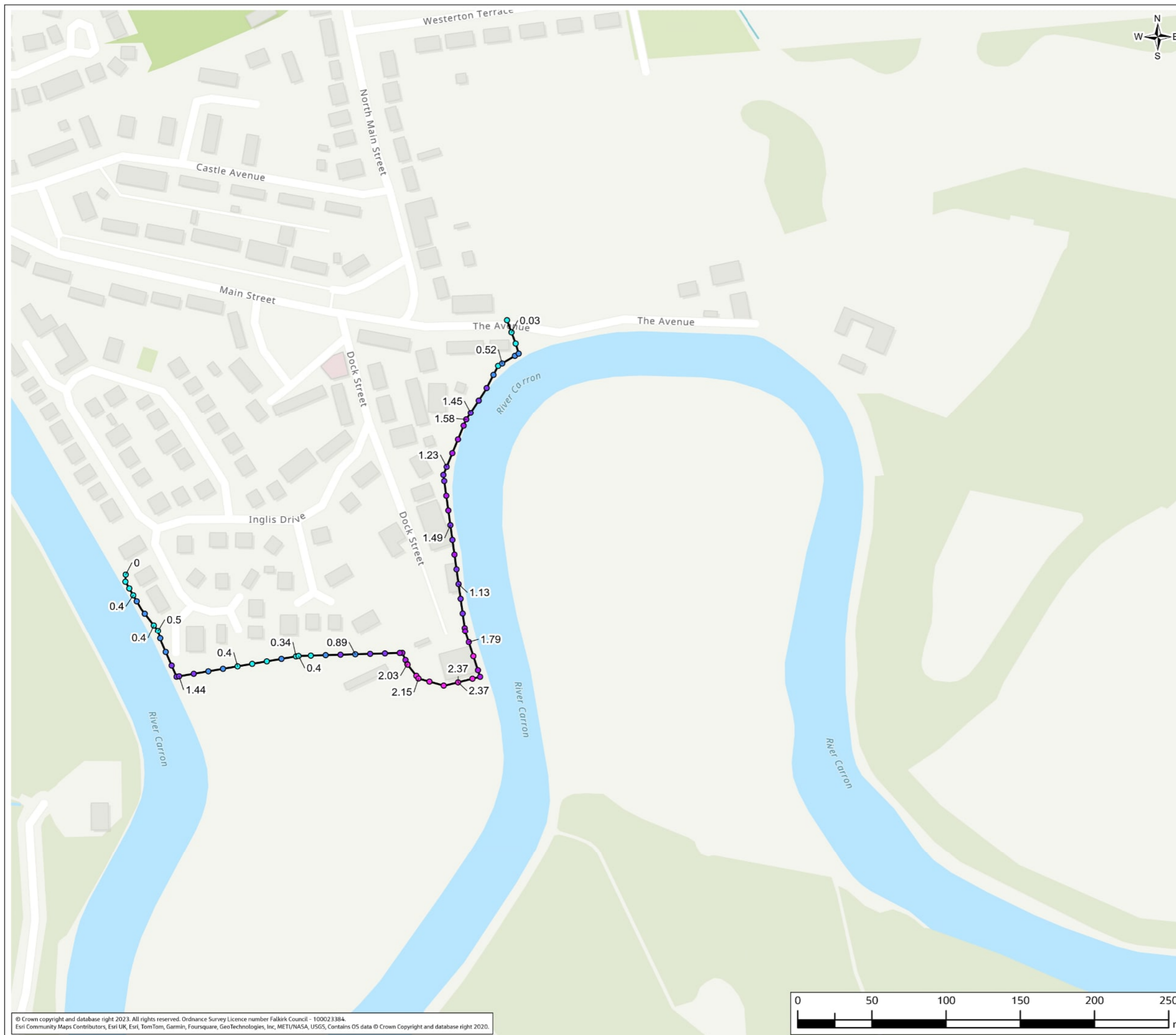
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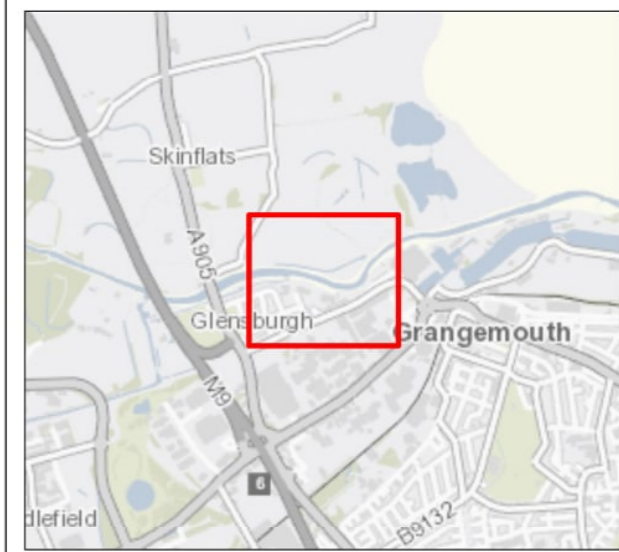
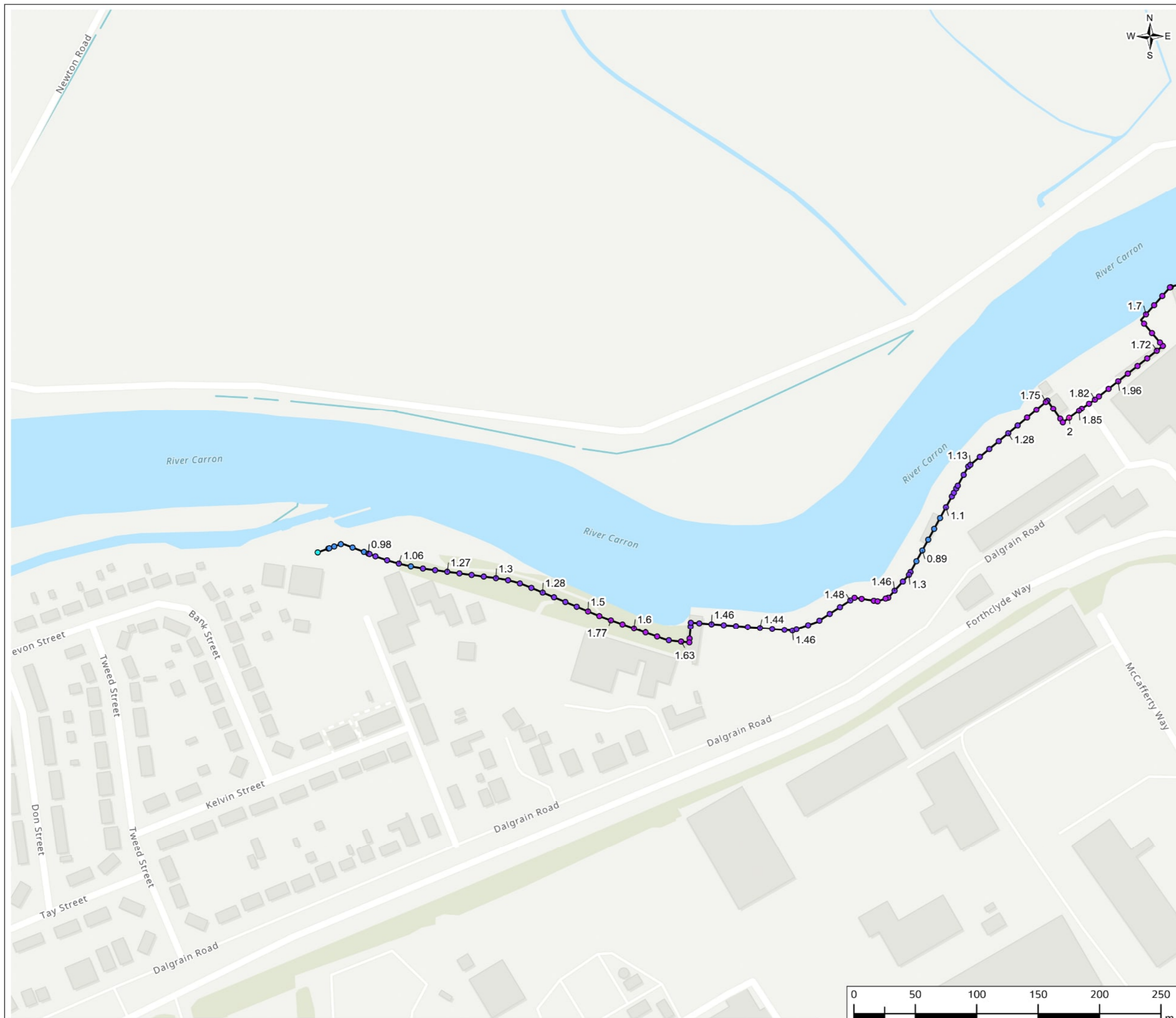
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**FIGURE A4.33**

- Legend**
- Flood defence heights (m) from existing ground level
- Height*
- 0 - 0.5
  - 0.51 - 1.0
  - 1.01 - 1.5
  - 1.51 - 2.0
  - >2.0
- Flood defence location
- 1.31 Flood defence heights (m) from existing ground level labels



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Drawing Title **FLOOD CELL 2 - WORKING AREA 2-1: FORTI I & CLYDE CANAL LOCK  
 FLOOD DEFENCE HEIGHTS**

SHEET: 1 OF 2

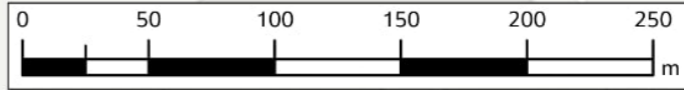
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**FIGURE A4.34**

**Legend**

Flood defence heights (m) from existing ground level

*Height*

- 0 - 0.5
- 0.51 - 1.0
- 1.01 - 1.5
- 1.51 - 2.0
- >2.0

— Flood defence location


1.31 Flood defence heights (m) from existing ground level labels



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SHEET:	2 OF 2

Drawing Status	S8--SUITABLE FOR STATUTORY CONSENT
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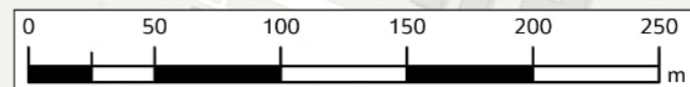
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**FIGURE A4.35**



**Legend**

Flood defence heights (m) from existing ground level

*Height*

- 0 - 0.5
- 0.51 - 1.0
- 1.01 - 1.5
- 1.51 - 2.0
- >2.0

— Flood defence location

1.31 Flood defence heights (m) from existing ground level labels



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Drawing Title	FLOOD CELL 3 - WORKING AREA 3-1: MOUTH OF THE RIVER CARRON FLOOD DEFENCE HEIGHTS
SHEET:	1 OF 5

Drawing Status	S8-SUITABLE FOR STATUTORY CONSENT
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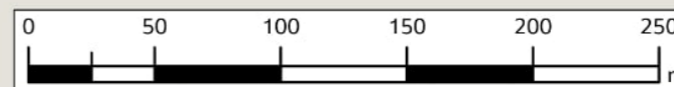
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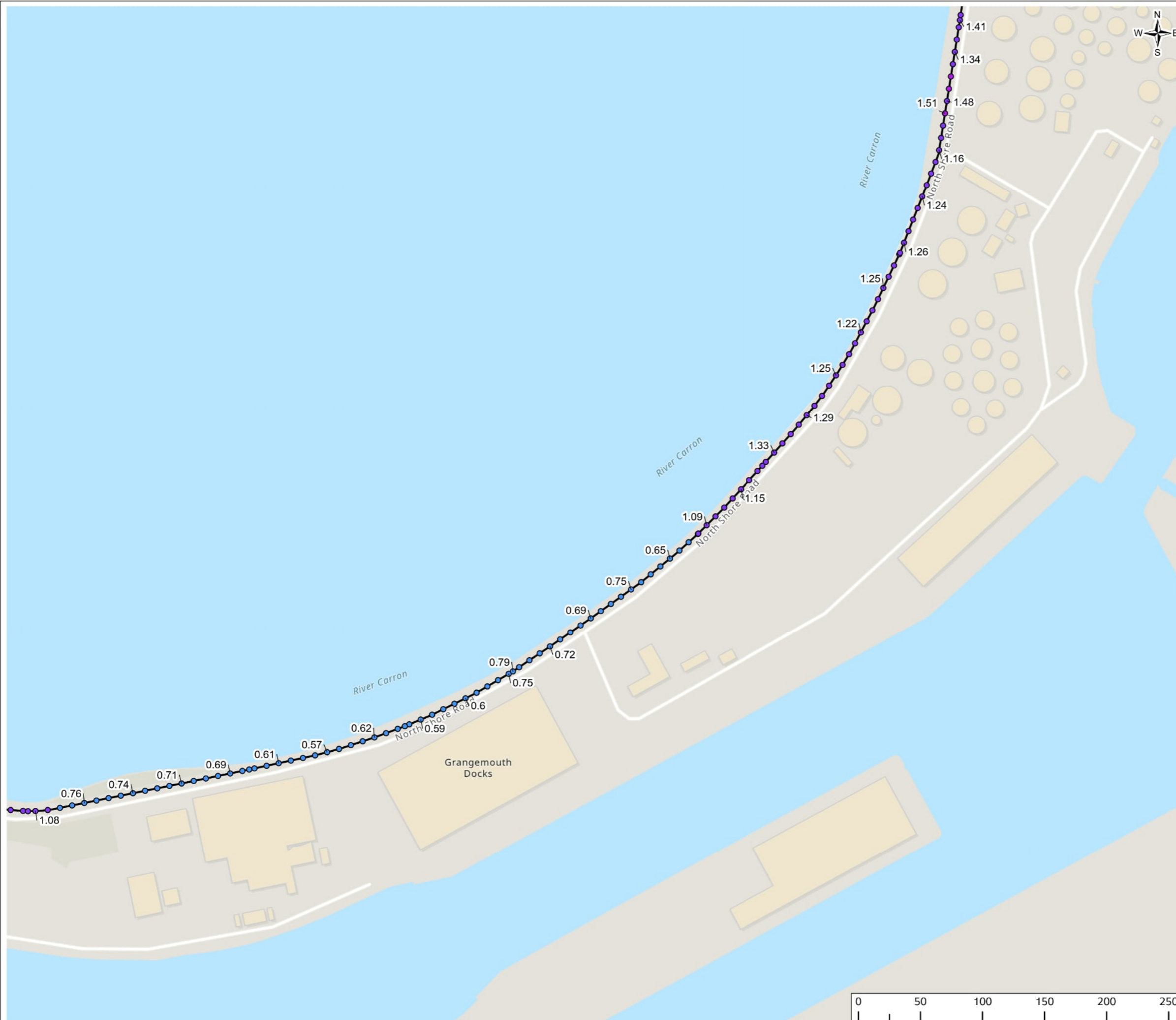
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**FIGURE A4.36**



**Legend**

Flood defence heights (m) from existing ground level

Height

- 0 - 0.5
- 0.51 - 1.0
- 1.01 - 1.5
- 1.51 - 2.0
- >2.0

— Flood defence location

1.31 Flood defence heights (m) from existing ground level labels



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Drawing Title	FLOOD CELL 3 - WORKING AREA 3-2: WEST COAST OF THE PORT FLOOD DEFENCE HEIGHTS
SHEET:	2 OF 5

Drawing Status	S8-SUITABLE FOR STATUTORY CONSENT
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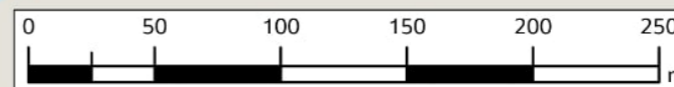
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Drawing No.	Figure A4.36
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**FIGURE A4.37**



**Legend**

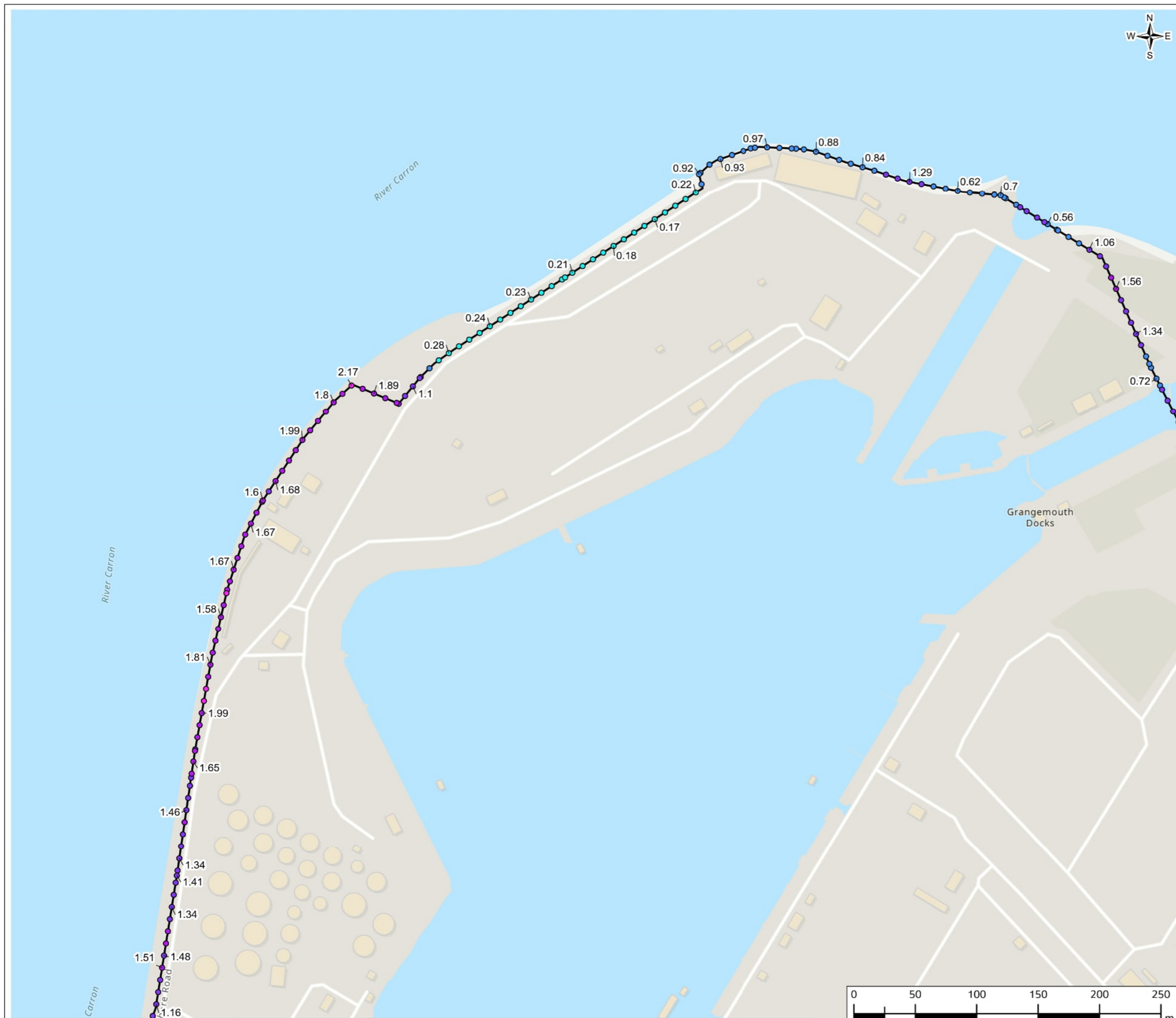
Flood defence heights (m) from existing ground level

*Height*

- 0 - 0.5
- 0.51 - 1.0
- 1.01 - 1.5
- 1.51 - 2.0
- >2.0

— Flood defence location

1.31 Flood defence heights (m) from existing ground level labels



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Project	Grangemouth Flood Protection Scheme
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Drawing Title	FLOOD CELL 3 - WORKING AREA 3-3: WEST GATE TO PORT FLOOD DEFENCE HEIGHTS
SHEET:	3 OF 5

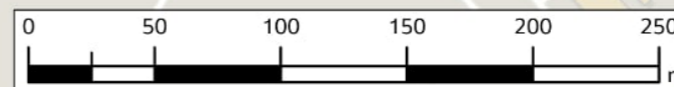
Drawing Status	S8-SUITABLE FOR STATUTORY CONSENT
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Scale @ A3	1:3,000	DO NOT SCALE
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Drawing No.	Figure A4.37
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**FIGURE A4.38**



**Legend**

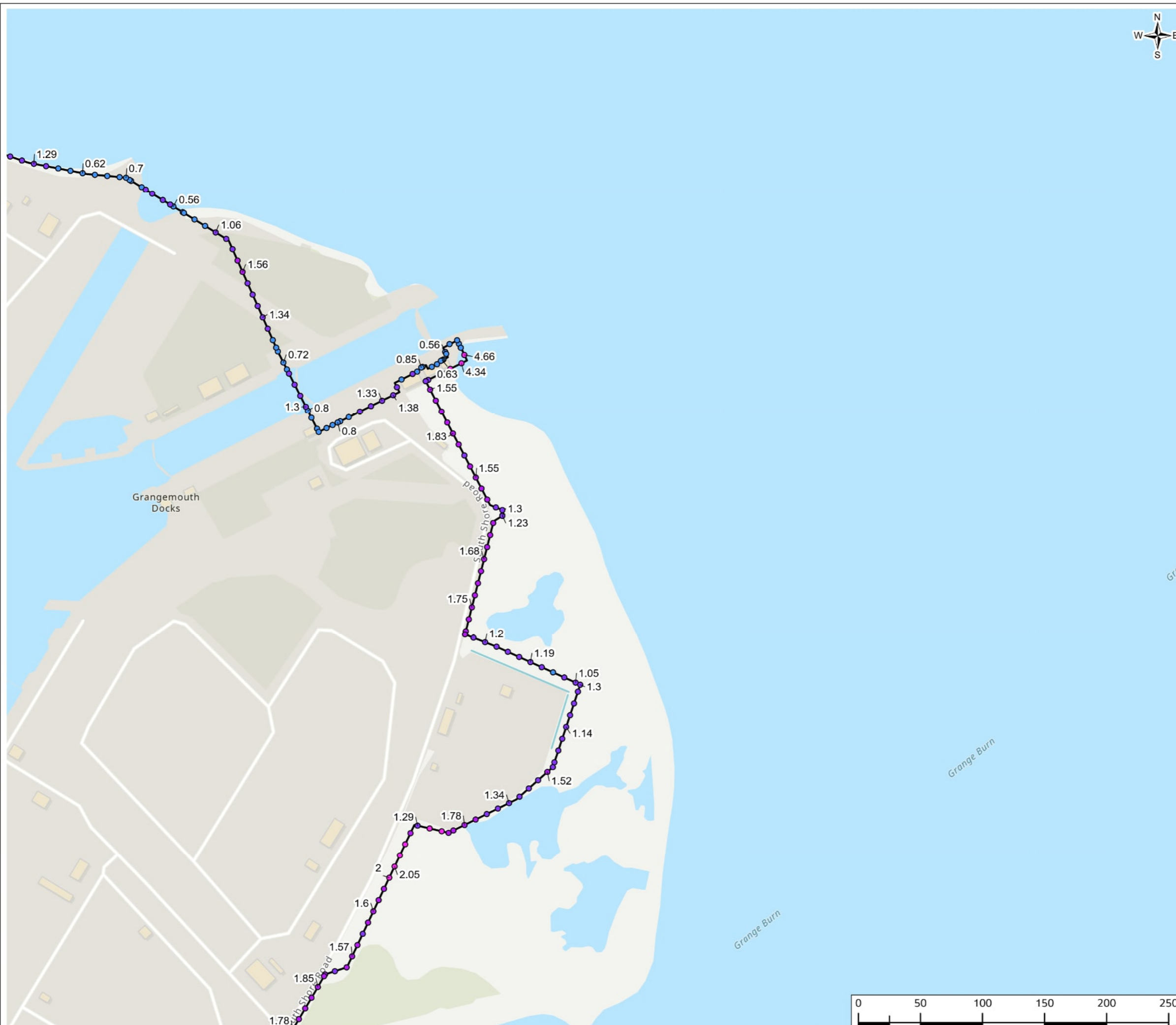
Flood defence heights (m) from existing ground level

*Height*

- 0 - 0.5
- 0.51 - 1.0
- 1.01 - 1.5
- 1.51 - 2.0
- >2.0

— Flood defence location

1.31 Flood defence heights (m) from existing ground level labels



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Project	Grangemouth Flood Protection Scheme
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Drawing Title	FLOOD CELL 3 - WORKING AREA 3-4: EAST GATE TO PORT FLOOD DEFENCE HEIGHTS
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SHEET: 4 OF 5

Drawing Status	S8-SUITABLE FOR STATUTORY CONSENT
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Scale @ A3	1:3,000	DO NOT SCALE
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Drawing No.	Figure A4.38
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**FIGURE A4.39**



**Legend**

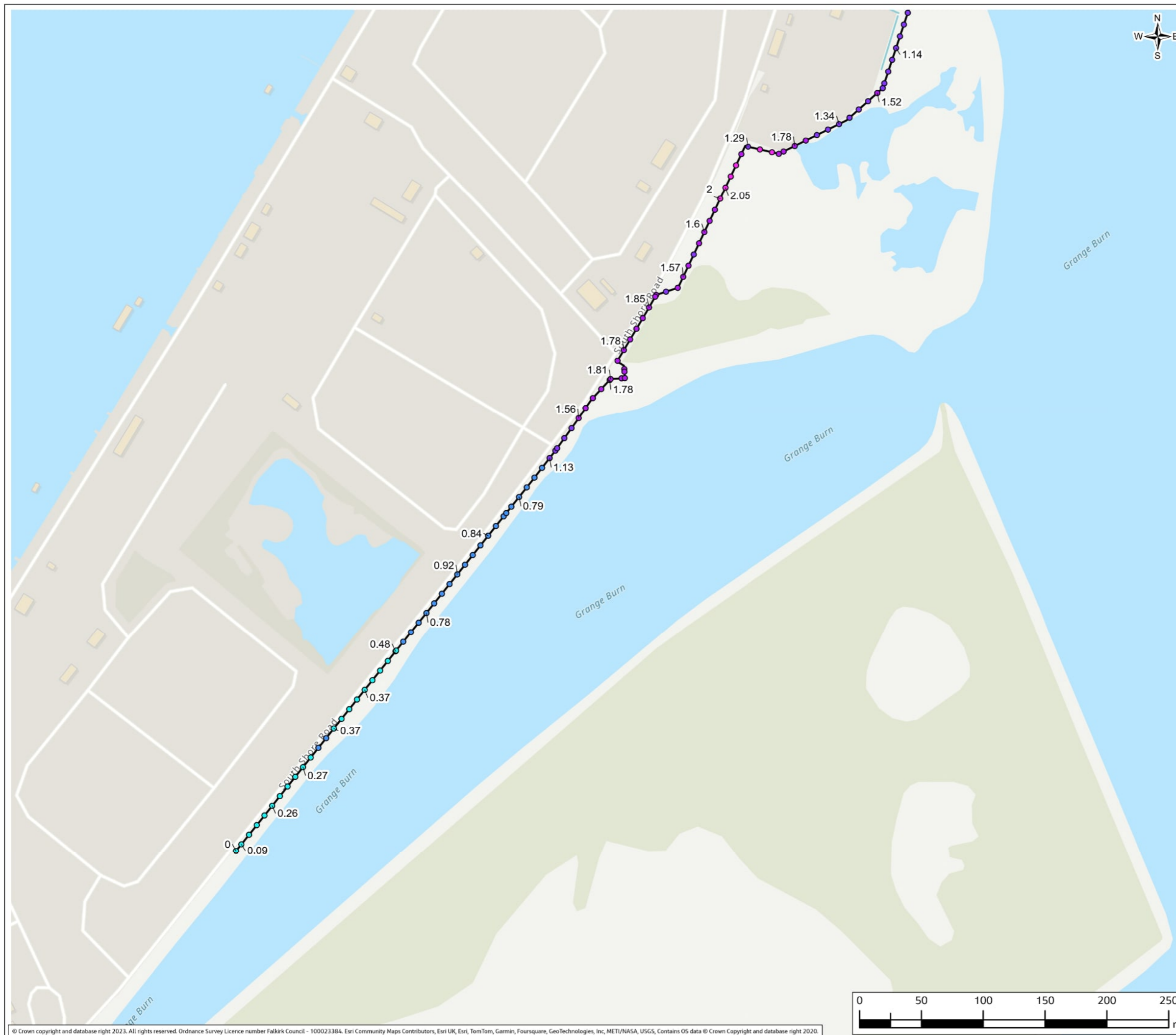
Flood defence heights (m) from existing ground level

*Height*

- 0 - 0.5
- 0.51 - 1.0
- 1.01 - 1.5
- 1.51 - 2.0
- >2.0

— Flood defence location


1.31 Flood defence heights (m) from existing ground level labels



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Project	Grangemouth Flood Protection Scheme
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Drawing Title	FLOOD CELL 3 - WORKING AREA 3-5: MOUTH OF THE GRANGE BURN FLOOD DEFENCE HEIGHTS
SHEET:	5 OF 5

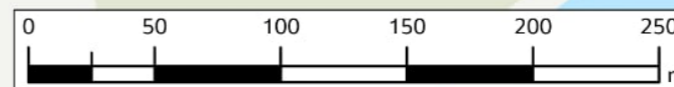
Drawing Status	S8-SUITABLE FOR STATUTORY CONSENT
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Scale @ A3	1:3,000	DO NOT SCALE
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Drawing No.	Figure A4.39
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**FIGURE A4.40**

**Legend**

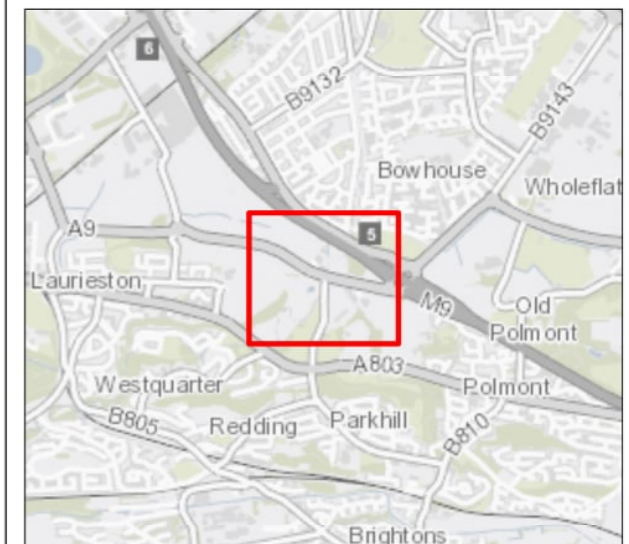
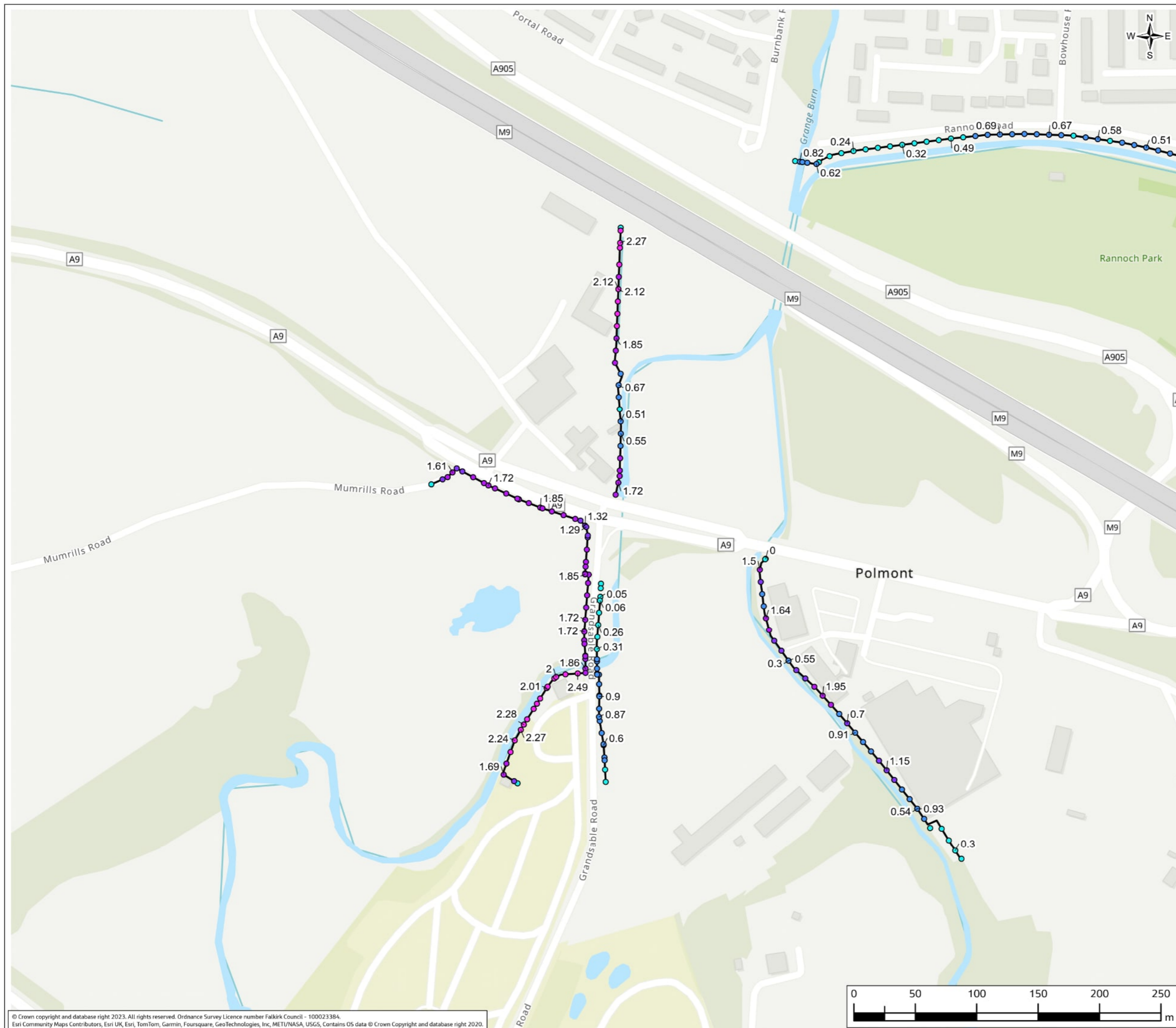
Flood defence heights (m) from existing ground level

*Height*

- 0 - 0.5
- 0.51 - 1.0
- 1.01 - 1.5
- 1.51 - 2.0
- >2.0

— Flood defence location

1.31 Flood defence heights (m) from existing ground level labels



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Drawing Title	FLOOD CELL 4 - WORKING AREA 4-1: UPSTREAM OF M9 FLOOD DEFENCE HEIGHTS
SHEET:	1 OF 9

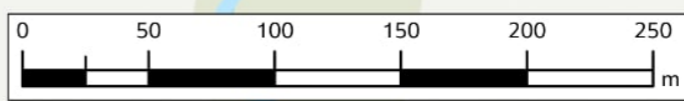
Drawing Status	S8-SUITABLE FOR STATUTORY CONSENT
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Scale @ A3	1:3,000	DO NOT SCALE
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Client No.	

Drawing No.	Figure A4.40
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**FIGURE A4.41**

**Legend**

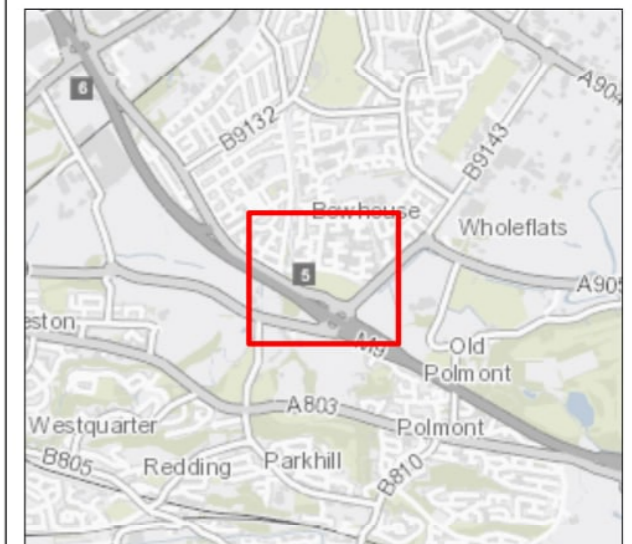
Flood defence heights (m) from existing ground level

*Height*

- 0 - 0.5
- 0.51 - 1.0
- 1.01 - 1.5
- 1.51 - 2.0
- >2.0

— Flood defence location

1.31 Flood defence heights (m) from existing ground level labels



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Drawing Title	FLOOD CELL 4 - WORKING AREA 4-2: FRC - RANNOCH PARK FLOOD DEFENCE HEIGHTS
SHEET:	2 OF 9

Drawing Status	S8-SUITABLE FOR STATUTORY CONSENT
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Scale @ A3	1:3,000	DO NOT SCALE
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Drawing No.	Figure A4.41
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**FIGURE A4.42**

**Legend**

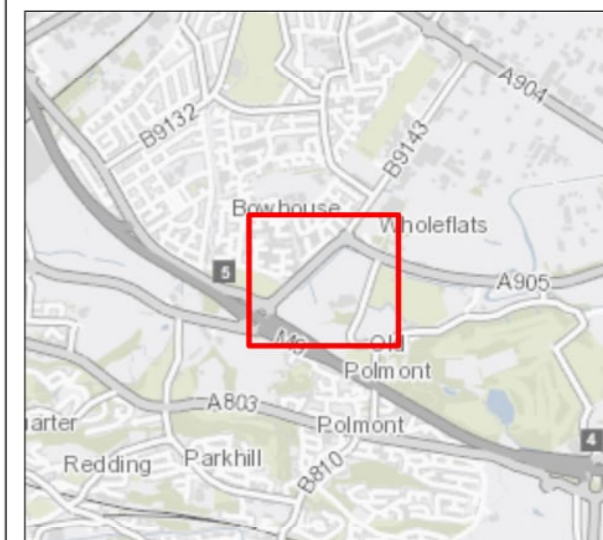
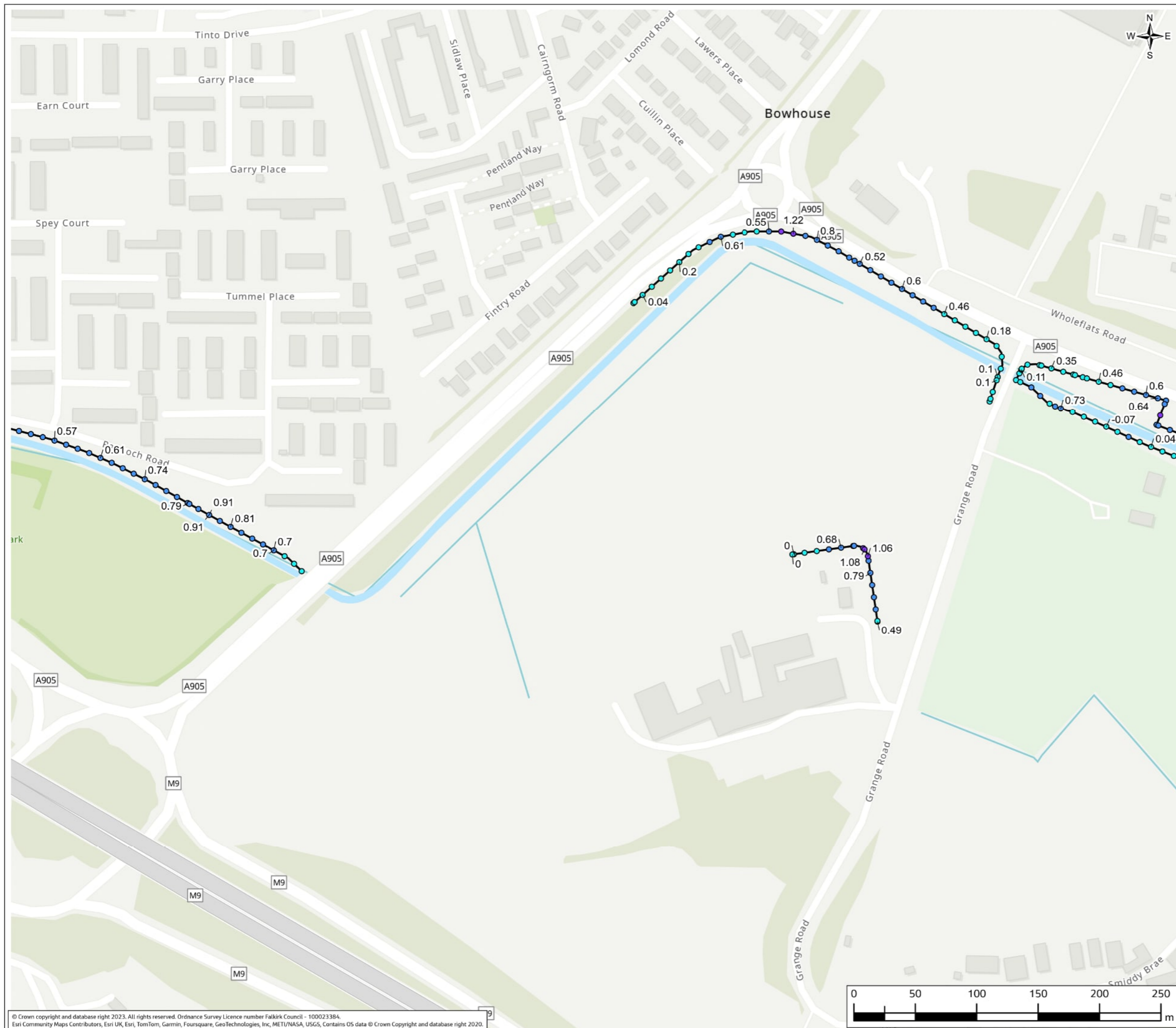
Flood defence heights (m) from existing ground level

*Height*

- 0 - 0.5
- 0.51 - 1.0
- 1.01 - 1.5
- 1.51 - 2.0
- >2.0

— Flood defence location

1:31 Flood defence heights (m) from existing ground level labels



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Project	Grangemouth Flood Protection Scheme
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Drawing Title	FLOOD CELL 4 - WORKING AREA 4-3: FRC - INCI IYRA ROAD FLOOD DEFENCE HEIGHTS
SHEET:	3 OF 9

Drawing Status	S8-SUITABLE FOR STATUTORY CONSENT
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Scale @ A3	1:3,000	DO NOT SCALE
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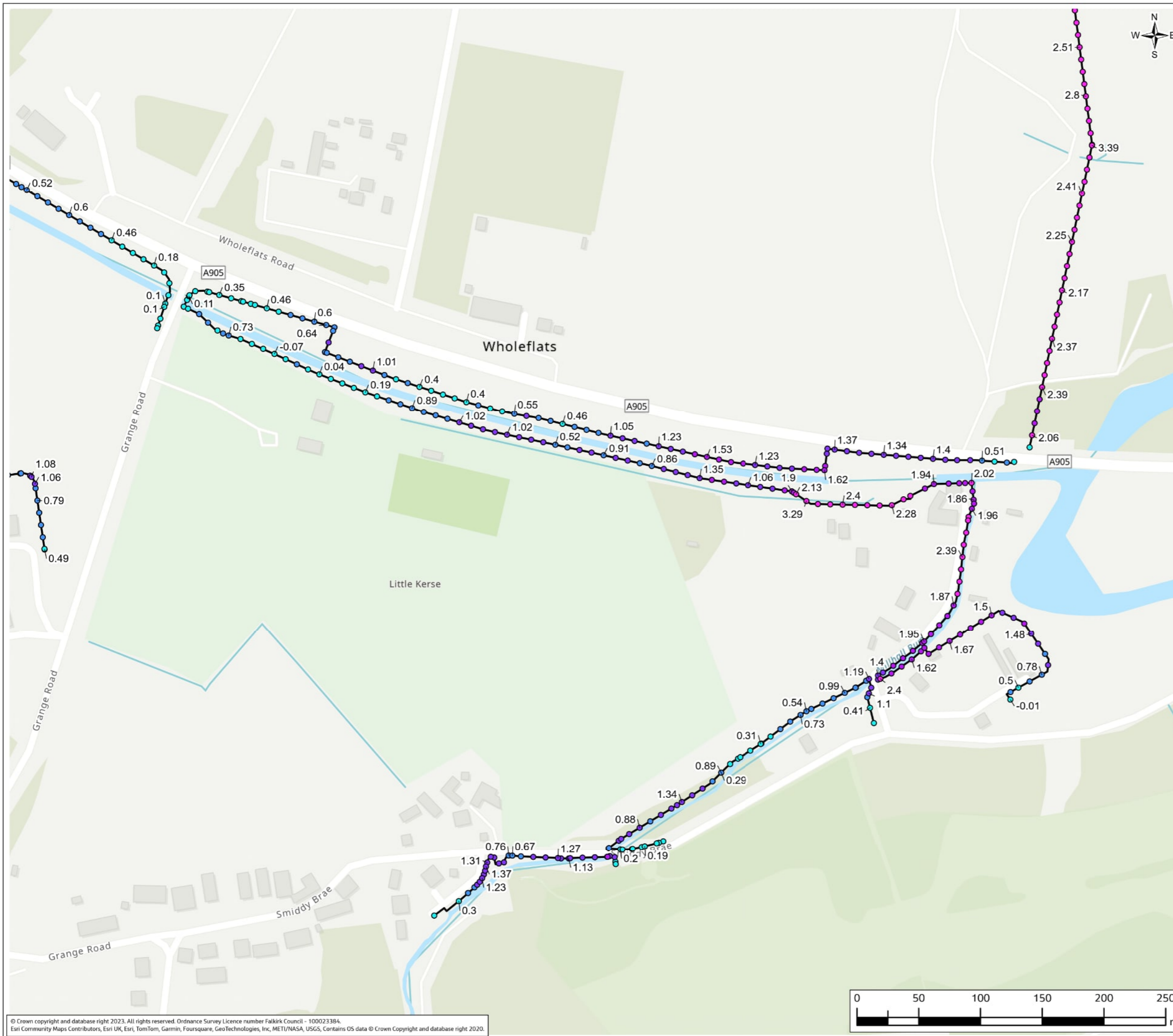
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Drawing No.	Figure A4.42
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**FIGURE A4.43**



**Legend**

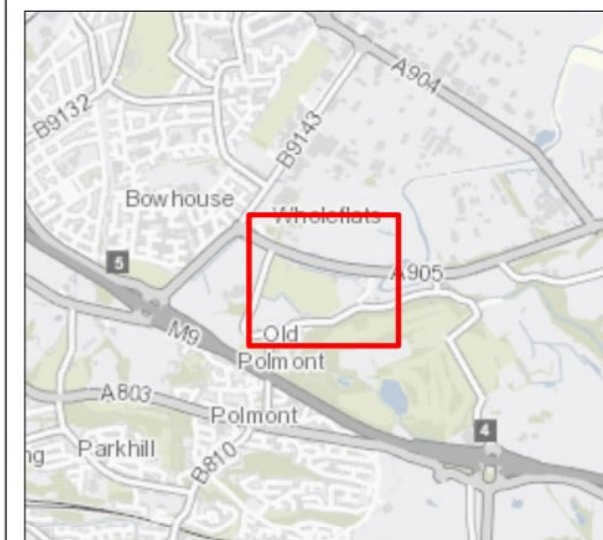
Flood defence heights (m) from existing ground level

*Height*

- 0 - 0.5
- 0.51 - 1.0
- 1.01 - 1.5
- 1.51 - 2.0
- >2.0

— Flood defence location

1.31 Flood defence heights (m) from existing ground level labels



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Project

**Grangemouth  
 Flood Protection Scheme**

Drawing Title

**FLOOD CELL 4 - WORKING AREA 4-4: FRC - WIOLE-FLATS ROAD  
 FLOOD DEFENCE HEIGHTS**

SHEET: 4 OF 9

Drawing Status

**S8-SUITABLE FOR STATUTORY CONSENT**

Scale @ A3

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Jacobs No. **B2386100**

Client No.

Drawing No.

**Figure A4.43**

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**FIGURE A4.44**

**Legend**

Flood defence heights (m) from existing ground level

*Height*

- 0 - 0.5
- 0.51 - 1.0
- 1.01 - 1.5
- 1.51 - 2.0
- >2.0

— Flood defence location

1.31 Flood defence heights (m) from existing ground level labels



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Project **Grangemouth  
 Flood Protection Scheme**

Drawing Title **FLOOD CELL 4 - WORKING AREA 4-5: GD - ZETLAND PARK  
 FLOOD DEFENCE HEIGHTS**

SHEET: 5 OF 9

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

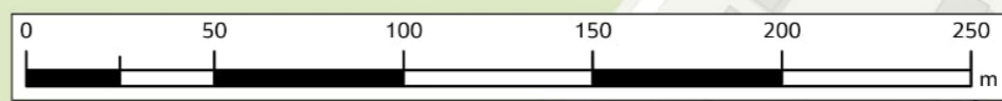
Scale @ A3 **1:2,000** **DO NOT SCALE**

Jacobs No. **B2386100**

Drawing No. **Figure A4.44**

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**FIGURE A4.45**

**Legend**

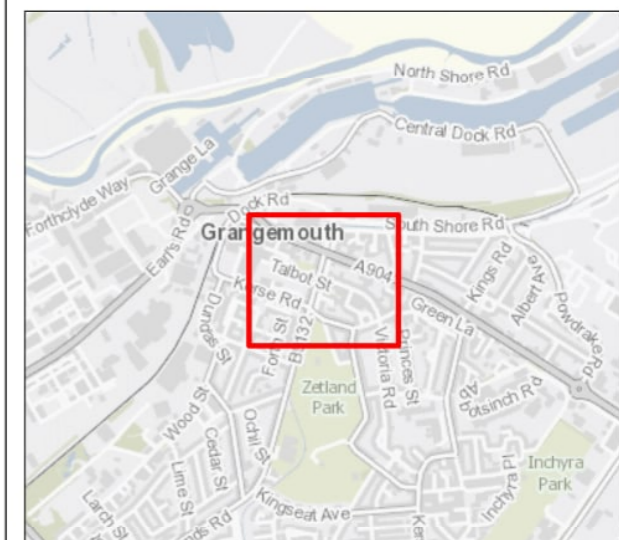
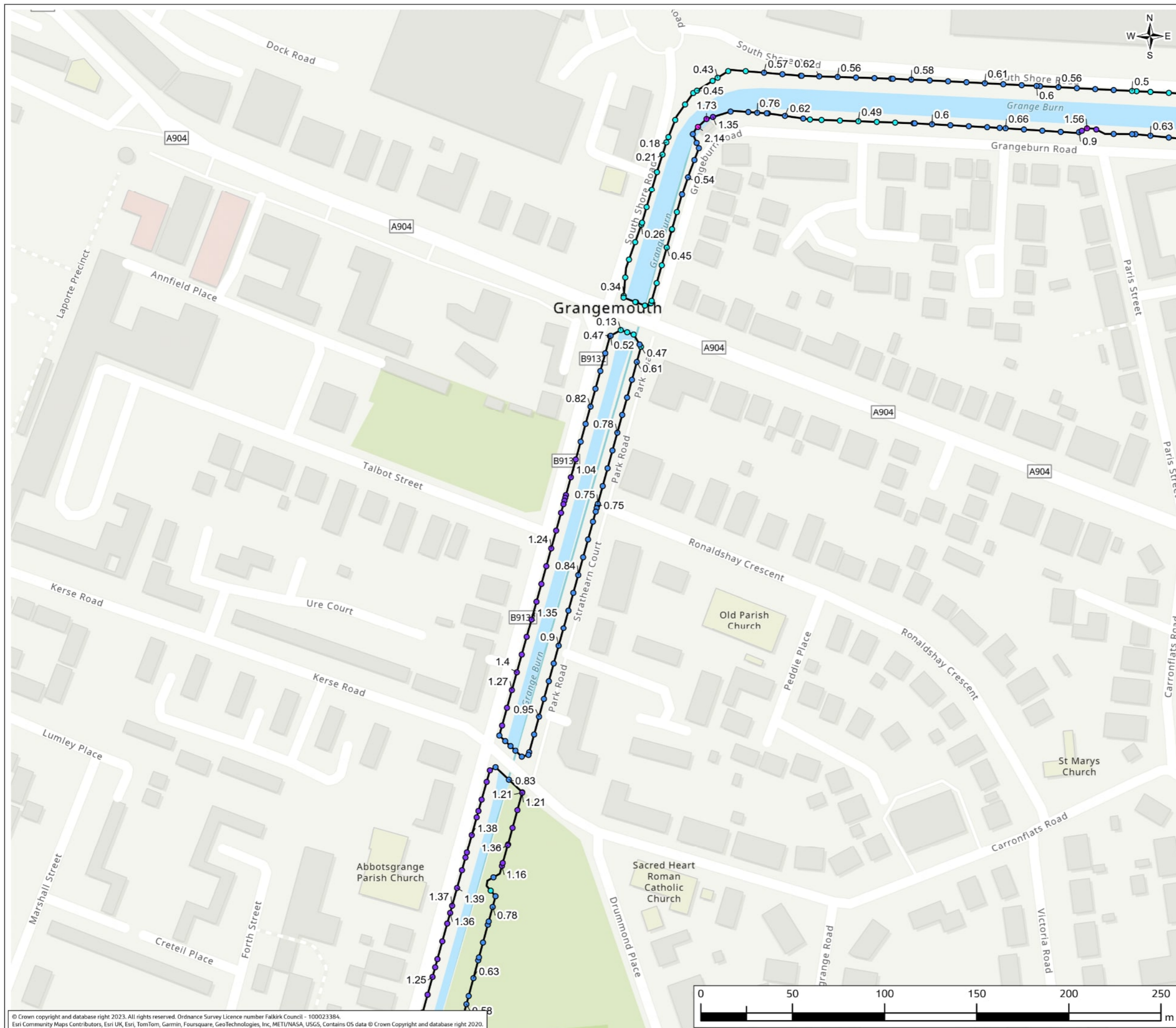
Flood defence heights (m) from existing ground level

*Height*

- 0 - 0.5
- 0.51 - 1.0
- 1.01 - 1.5
- 1.51 - 2.0
- >2.0

— Flood defence location

1.31 Flood defence heights (m) from existing ground level labels



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Project	<p>Grangemouth Flood Protection Scheme</p>					
Drawing Title	<p>FLOOD CELL 4 - WORKING AREA 4-G: GD - DALGRAIN TO DO'NESS ROAD FLOOD DEFENCE HEIGHTS</p>					
						SHEET: 6 OF 9
Drawing Status	S8-SUITABLE FOR STATUTORY CONSENT					
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Client No.						
Drawing No.	Figure A4.45					
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**FIGURE A4.46**

**Legend**

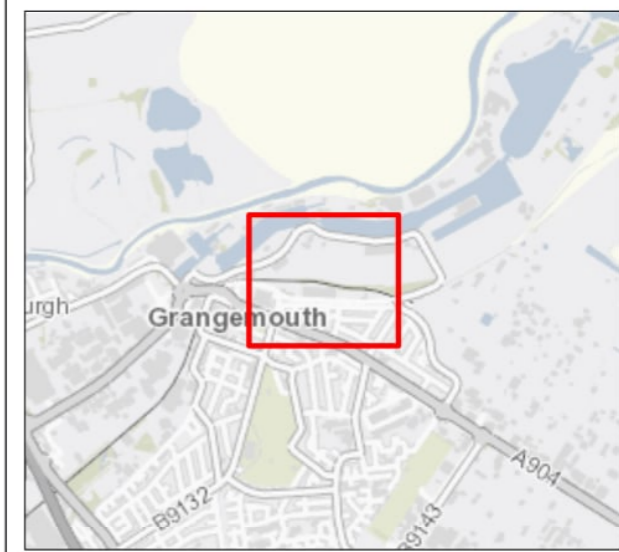
Flood defence heights (m) from existing ground level

*Height*

- 0 - 0.5
- 0.51 - 1.0
- 1.01 - 1.5
- 1.51 - 2.0
- >2.0

— Flood defence location

1:31 Flood defence heights (m) from existing ground level labels



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Project

Grangemouth  
 Flood Protection Scheme

Drawing Title

FLOOD CELL 4 - WORKING AREA 4-7: GD - GRANGEDURN ROAD  
 FLOOD DEFENCE HEIGHTS

SHEET: 7 OF 9

Drawing Status

S8-SUITABLE FOR STATUTORY CONSENT

Scale @ A3

1:3,000 DO NOT SCALE

Jacobs No.

B2386100

Drawing No.

Figure A4.46

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**FIGURE A4.47**



**Legend**

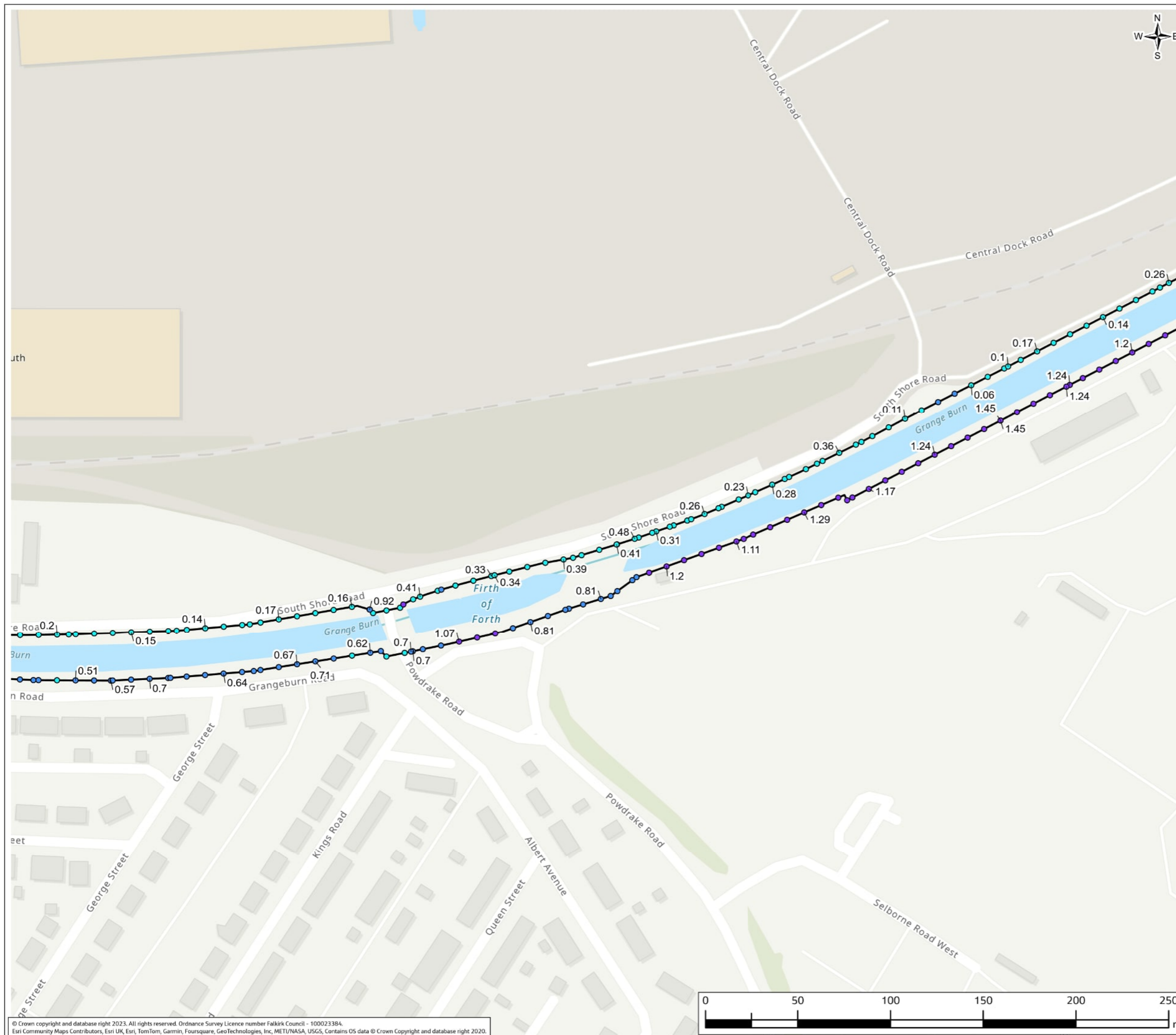
Flood defence heights (m) from existing ground level

*Height*

- 0 - 0.5
- 0.51 - 1.0
- 1.01 - 1.5
- 1.51 - 2.0
- >2.0

— Flood defence location

1.31 Flood defence heights (m) from existing ground level labels



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Project	Grangemouth Flood Protection Scheme
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Drawing Title	FLOOD CELL 4 - WORKING AREA 4-B: GD - PETROINEOS FLOOD DEFENCE HEIGHTS
SHEET:	8 OF 9

Drawing Status	S8-SUITABLE FOR STATUTORY CONSENT
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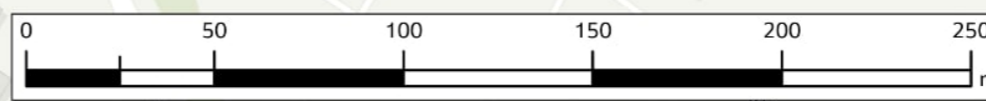
Scale @ A3	1:2,000	DO NOT SCALE
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Jacobs No.	B2386100
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Client No.	
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Drawing No.	Figure A4.47
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**FIGURE A4.48**

**Legend**

Flood defence heights (m) from existing ground level

*Height*

- 0 - 0.5
- 0.51 - 1.0
- 1.01 - 1.5
- 1.51 - 2.0
- >2.0

— Flood defence location

1.31 Flood defence heights (m) from existing ground level labels



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Project	Grangemouth Flood Protection Scheme
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Drawing Title	FLOOD CELL 4 - WORKING AREA 4-9: GD - MOUTH I OF GD FLOOD DEFENCE HEIGHTS
SHEET:	9 OF 9

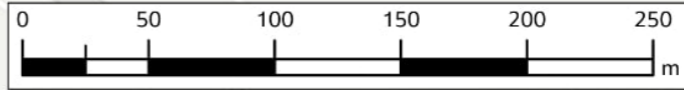
Drawing Status	S8-SUITABLE FOR STATUTORY CONSENT
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Scale @ A3	1:3,000	DO NOT SCALE
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Jacobs No.	B2386100
Client No.	

Drawing No.	Figure A4.48
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**FIGURE A4.49**

**Legend**

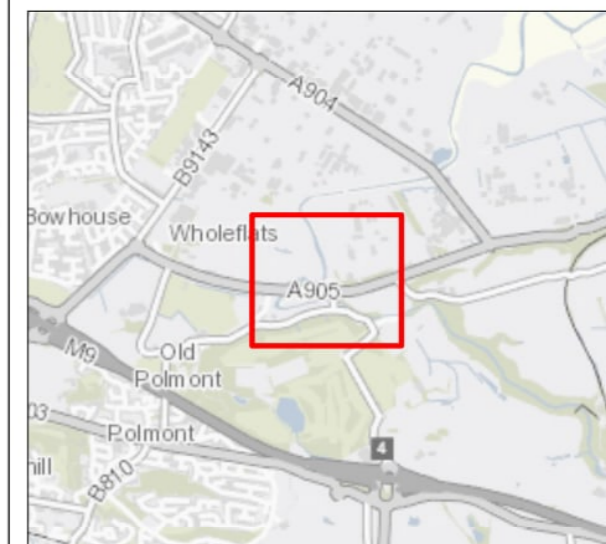
Flood defence heights (m) from existing ground level

*Height*

- 0 - 0.5
- 0.51 - 1.0
- 1.01 - 1.5
- 1.51 - 2.0
- >2.0

— Flood defence location

1:31 Flood defence heights (m) from existing ground level labels



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Project	Grangemouth Flood Protection Scheme
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Drawing Title	FLOOD CELL 5 - WORKING AREA 5-1: SMIDDY BRAE & AVONDALE ROAD FLOOD DEFENCE HEIGHTS
SHEET:	1 OF 4

Drawing Status	S8-SUITABLE FOR STATUTORY CONSENT
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Scale @ A3	1:3,000	DO NOT SCALE
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Jacobs No.	B2386100
Client No.	

Drawing No.	Figure A4.49
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**FIGURE A4.50**

**Legend**

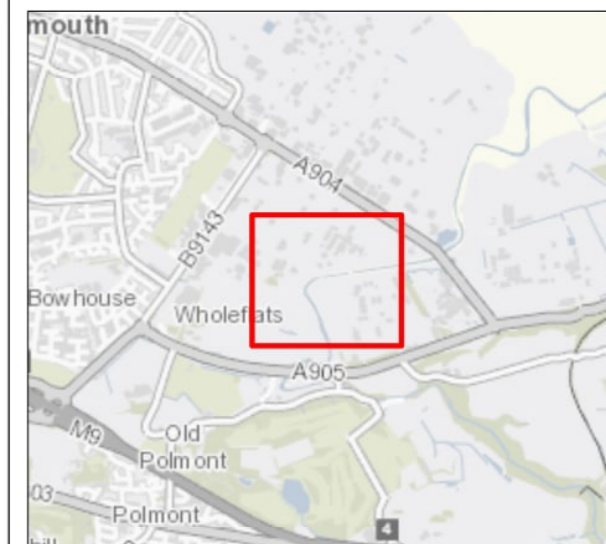
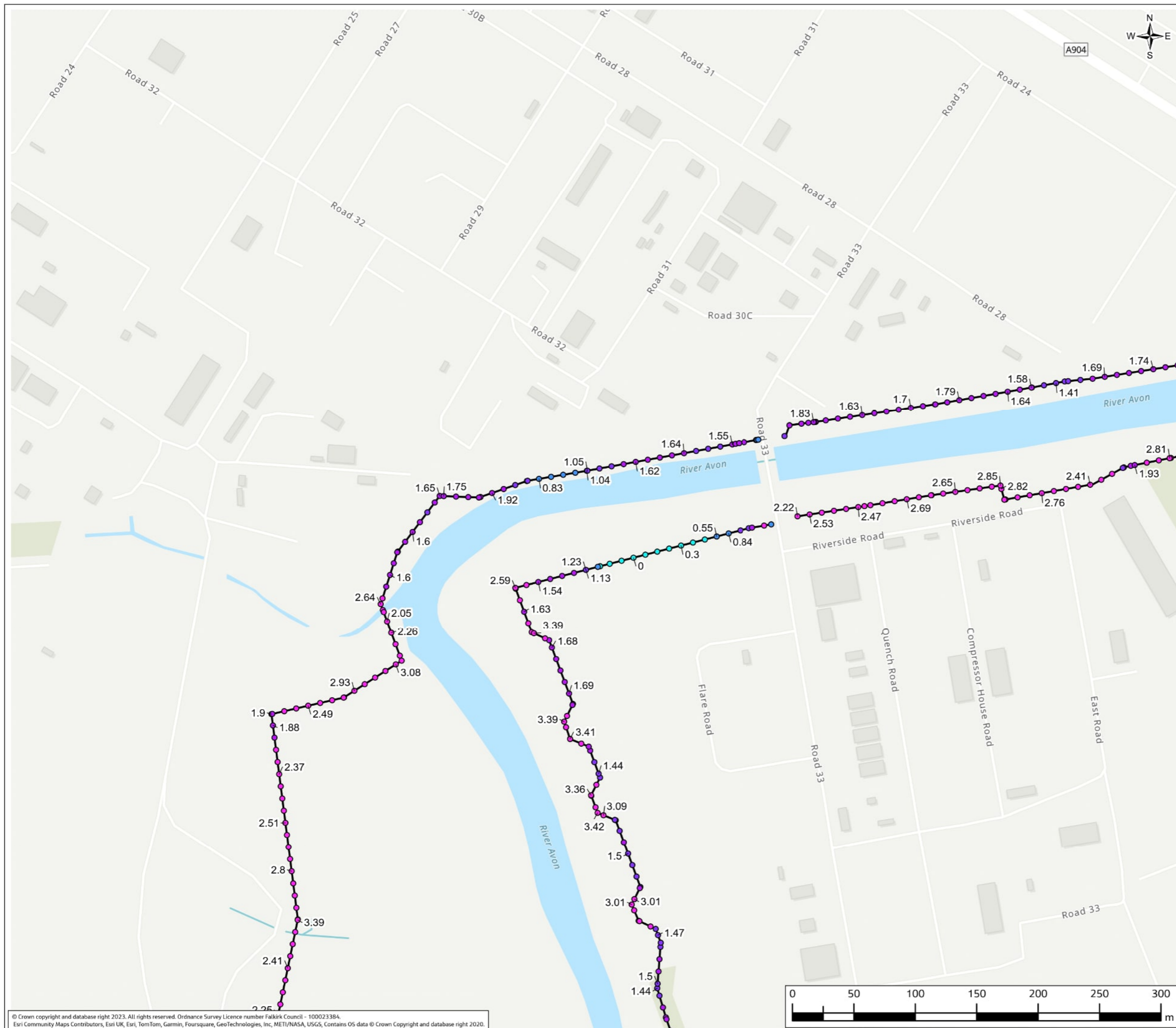
Flood defence heights (m) from existing ground level

Height

- 0 - 0.5
- 0.51 - 1.0
- 1.01 - 1.5
- 1.51 - 2.0
- >2.0

— Flood defence location

1:31 Flood defence heights (m) from existing ground level labels



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Drawing Title	FLOOD CELL 5 - WORKING AREA 5-2: FLARE ROAD & ROAD 33 FLOOD DEFENCE HEIGHTS
---------------	--

SHEET: 2 OF 4

Drawing Status	S8-SUITABLE FOR STATUTORY CONSENT
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Scale @ A3	1:3,000	DO NOT SCALE
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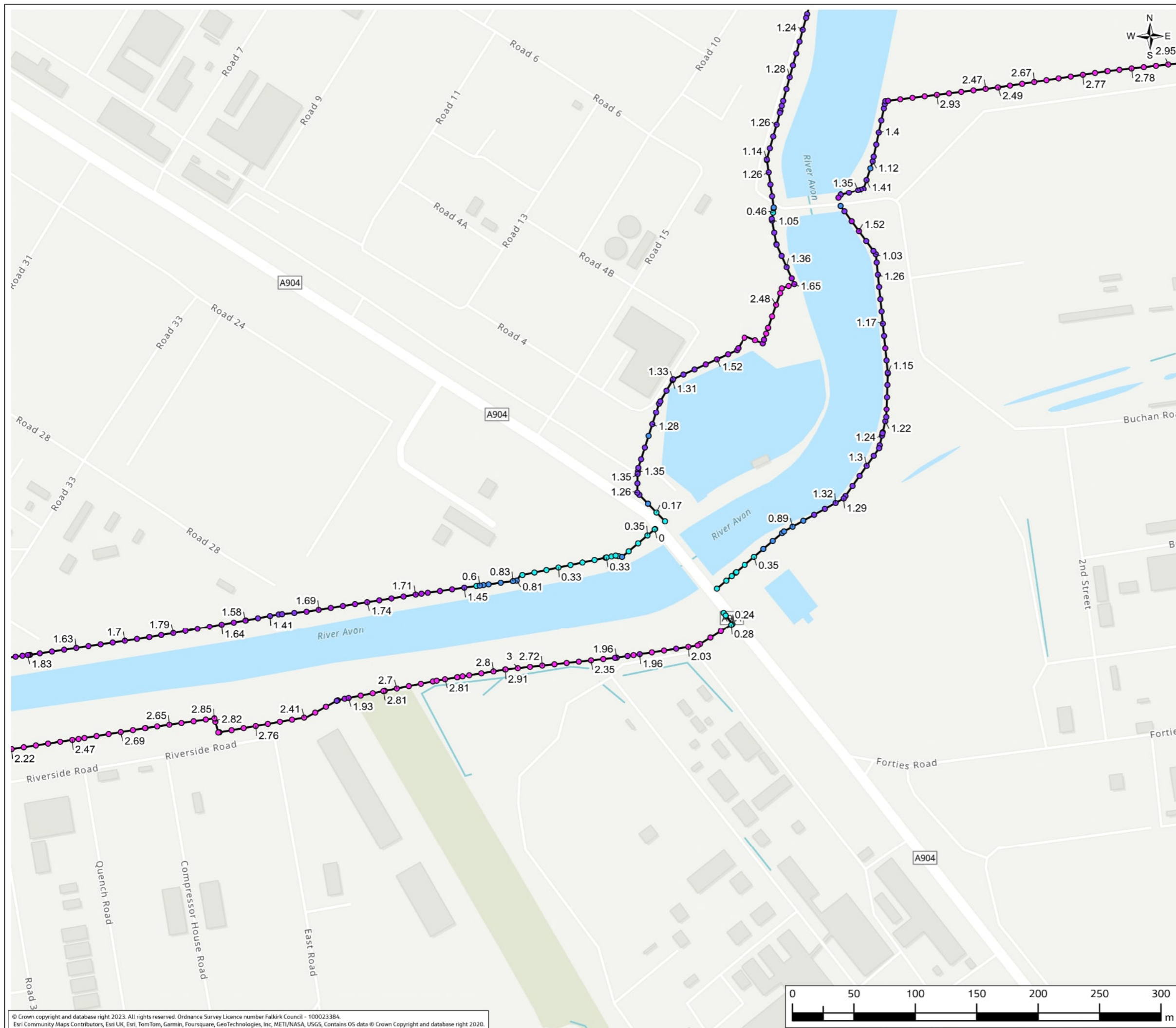
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Drawing No.	Figure A4.50
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**FIGURE A4.51**



**Legend**

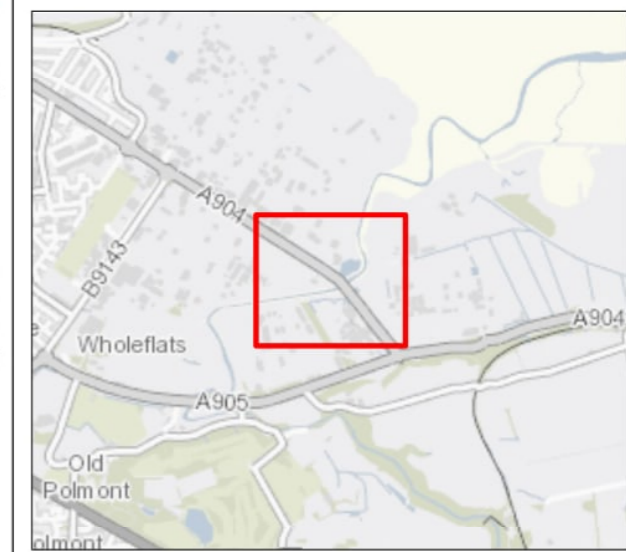
Flood defence heights (m) from existing ground level

*Height*

- 0 - 0.5
- 0.51 - 1.0
- 1.01 - 1.5
- 1.51 - 2.0
- >2.0

— Flood defence location

1:31 Flood defence heights (m) from existing ground level labels



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Project: **Grangemouth  
 Flood Protection Scheme**

Drawing Title: **FLOOD CELL 5 - WORKING AREA 5-3: GRANGEMOUTH I ROAD  
 FLOOD DEFENCE HEIGHTS**

SHEET: 3 OF 4

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

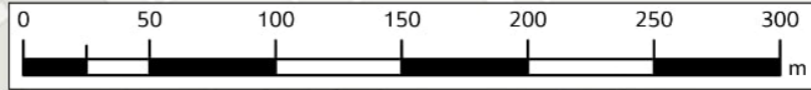
Scale @ A3: 1:3,000 DO NOT SCALE

Jacobs No. B2386100

Drawing No. **Figure A4.51**

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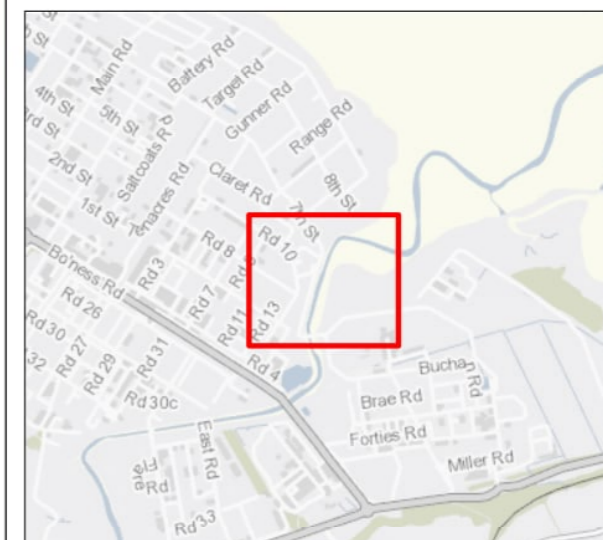
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**FIGURE A4.52**

- Legend**
- Flood defence heights (m) from existing ground level
- Height*
- 0 - 0.5
  - 0.51 - 1.0
  - 1.01 - 1.5
  - 1.51 - 2.0
  - >2.0
- Flood defence location
- 1:31 Flood defence heights (m) from existing ground level labels



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**Project**

Grangemouth  
 Flood Protection Scheme

**Drawing Title**

FLOOD CELL 5 - WORKING AREA 5-4: MOUTH OF RIVER AVON  
 FLOOD DEFENCE HEIGHTS

SHEET: 4 OF 4

**Drawing Status**

S8-SUITABLE FOR STATUTORY CONSENT

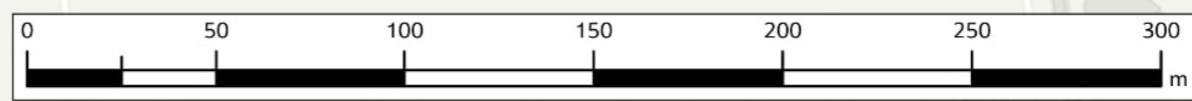
**Scale @ A3** 1:2,000 **DO NOT SCALE**

**Jacobs No.** B2386100

**Drawing No.** Figure A4.52

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**FIGURE A4.53**



**Legend**

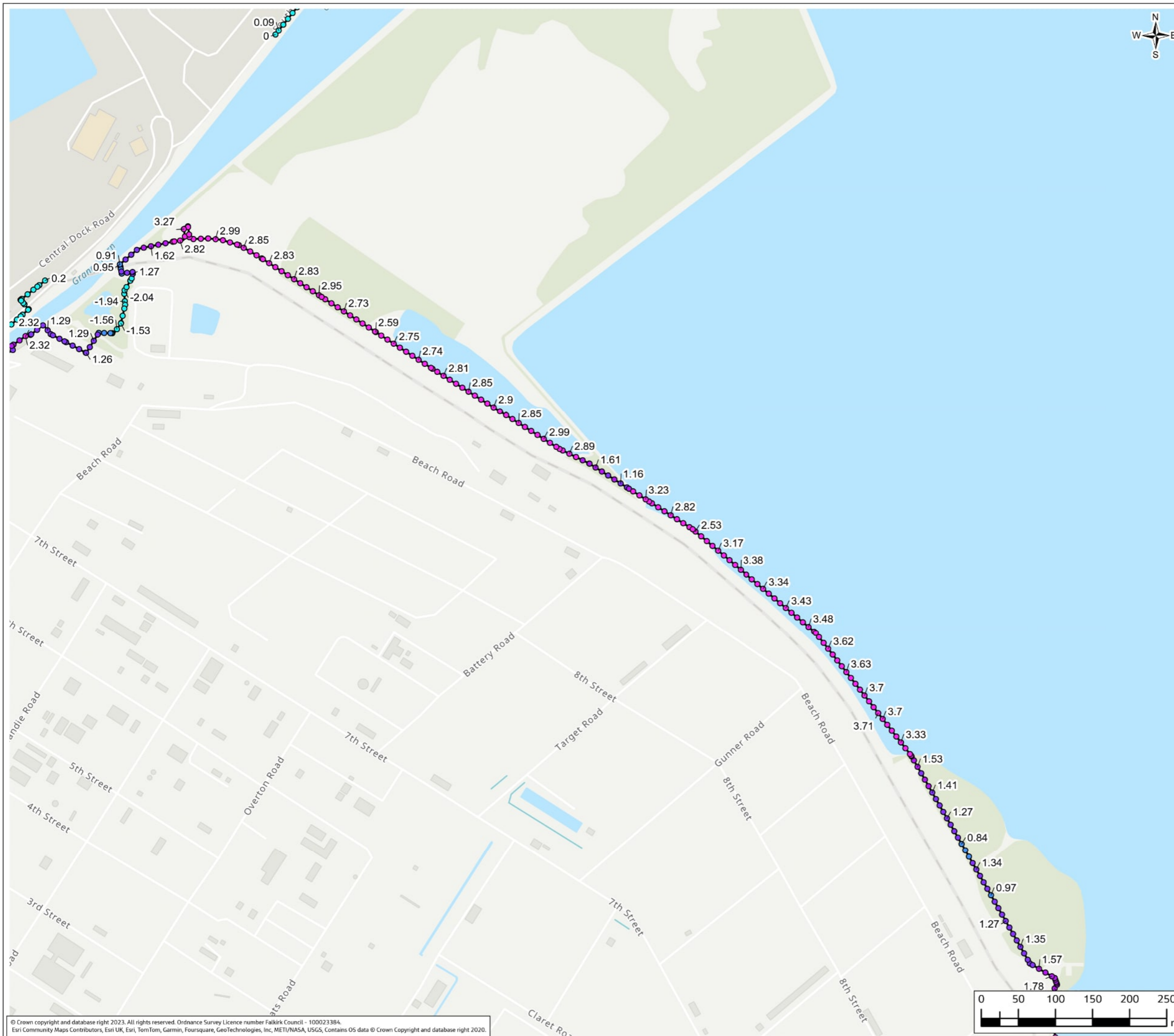
Flood defence heights (m) from existing ground level

*Height*

- 0 - 0.5
- 0.51 - 1.0
- 1.01 - 1.5
- 1.51 - 2.0
- >2.0

— Flood defence location

1.31 Flood defence heights (m) from existing ground level labels



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Project	Grangemouth Flood Protection Scheme
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Drawing Title	FLOOD CELL 6 - WORKING AREA 6-1: BEACH ROAD FLOOD DEFENCE HEIGHTS	SHEET: 1 OF 4
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Drawing Status	S8-SUITABLE FOR STATUTORY CONSENT
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Scale @ A3	1:5,000	DO NOT SCALE
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Drawing No.	Figure A4.53
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**FIGURE A4.54**



**Legend**

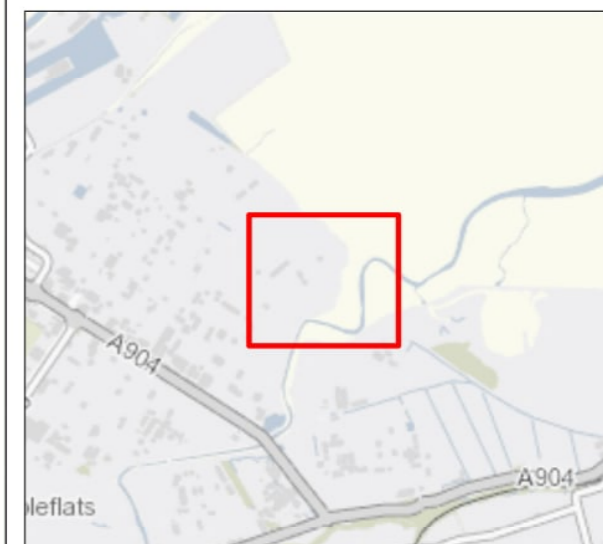
Flood defence heights (m) from existing ground level

*Height*

- 0 - 0.5
- 0.51 - 1.0
- 1.01 - 1.5
- 1.51 - 2.0
- >2.0

— Flood defence location

1.31 Flood defence heights (m) from existing ground level labels



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Drawing Title	FLOOD CELL 6 - WORKING AREA 6-2: PETROINEOS MOUTH OF RIVER AVON FLOOD DEFENCE HEIGHTS
---------------	--

SHEET: 2 OF 4

Drawing Status	S8-SUITABLE FOR STATUTORY CONSENT
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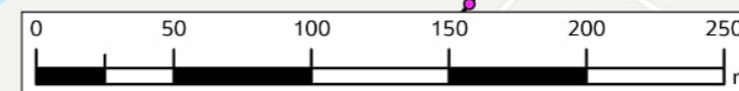
Scale @ A3	1:2,750	DO NOT SCALE
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Drawing No.	Figure A4.54
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**FIGURE A4.55**



**Legend**

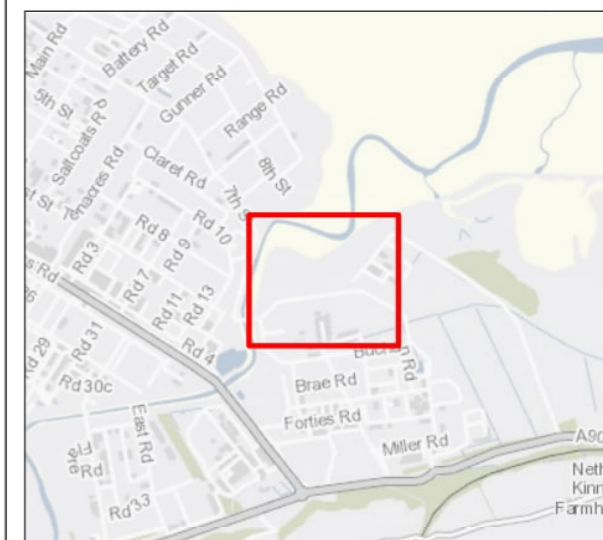
Flood defence heights (m) from existing ground level

*Height*

- 0 - 0.5
- 0.51 - 1.0
- 1.01 - 1.5
- 1.51 - 2.0
- >2.0

— Flood defence location

1.31 Flood defence heights (m) from existing ground level labels



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**Grangemouth  
Flood Protection Scheme**

Drawing Title

**FLOOD CELL 6 - WORKING AREA 6-3: CHEMICAL WORKS AT RIVER AVON  
FLOOD DEFENCE HEIGHTS**

SHEET: 3 OF 4

Drawing Status

**S8-SUITABLE FOR STATUTORY CONSENT**

Scale @ A3

1:2,000 DO NOT SCALE

Jacobs No. **B2386100**

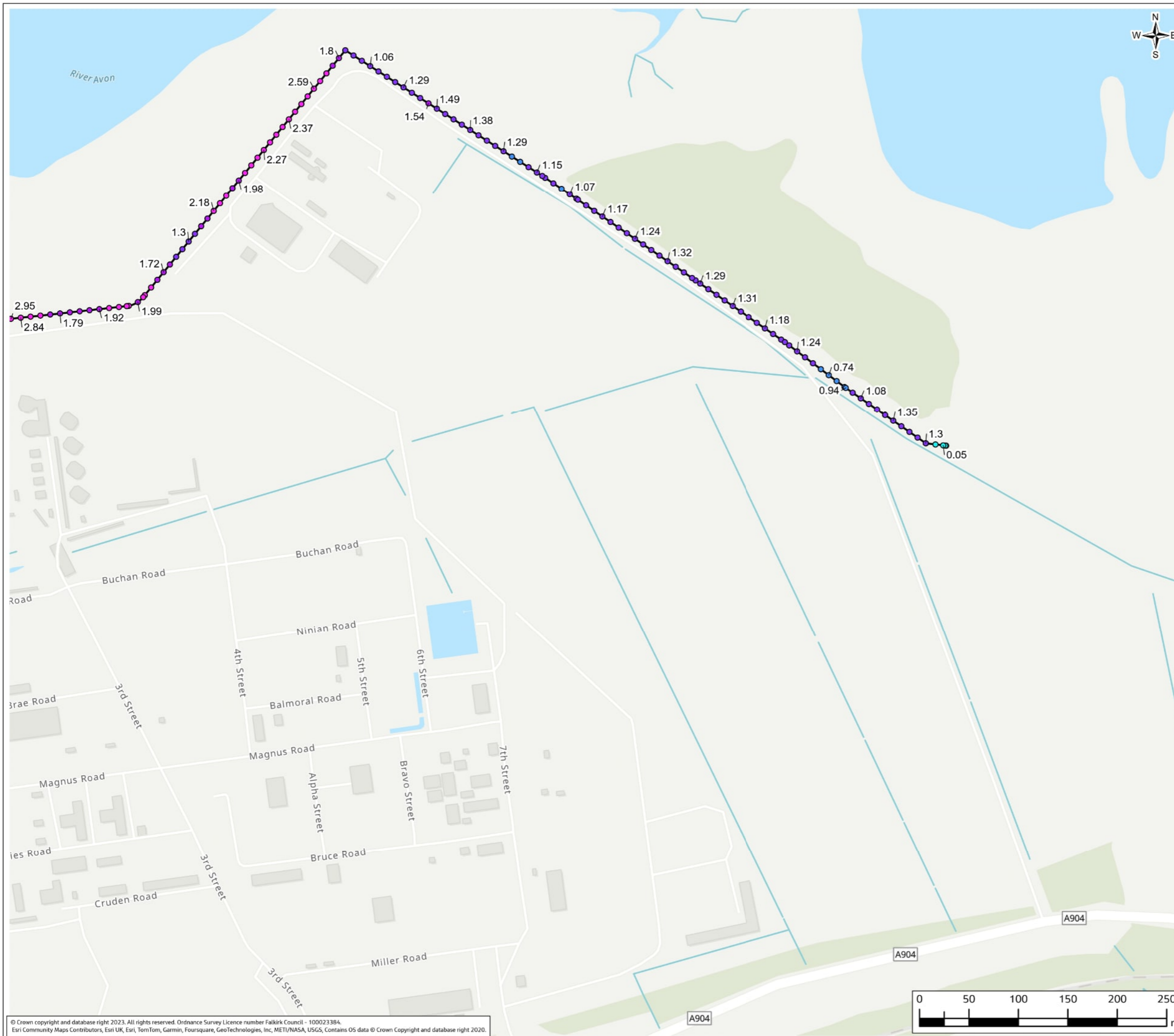
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Drawing No. **Figure A4.55**

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**FIGURE A4.56**



**Legend**

Flood defence heights (m) from existing ground level

*Height*

- 0 - 0.5
- 0.51 - 1.0
- 1.01 - 1.5
- 1.51 - 2.0
- >2.0

— Flood defence location

1.31 Flood defence heights (m) from existing ground level labels




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 Flood Protection Scheme**

Drawing Title

**FLOOD CELL 6 - WORKING AREA 6-4: WATER TREATMENT WORKS  
 FLOOD DEFENCE HEIGHTS**

SHEET: 4 OF 4

Drawing Status

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Scale @ A3

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Client No.

Drawing No.

Figure A4.56

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