

# 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



**Contents (links to appendices)**

Appendix Figures: A1-A4

Appendix Figures: A4.1 - A4.28

Appendix Figures: A4.29 - A4.56

# Environmental Impact Assessment Report

Appendix A Figures A1.1 - A1.4

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



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## **Contents (links to appendices)**

Appendix Figure A1.1: Location and Context

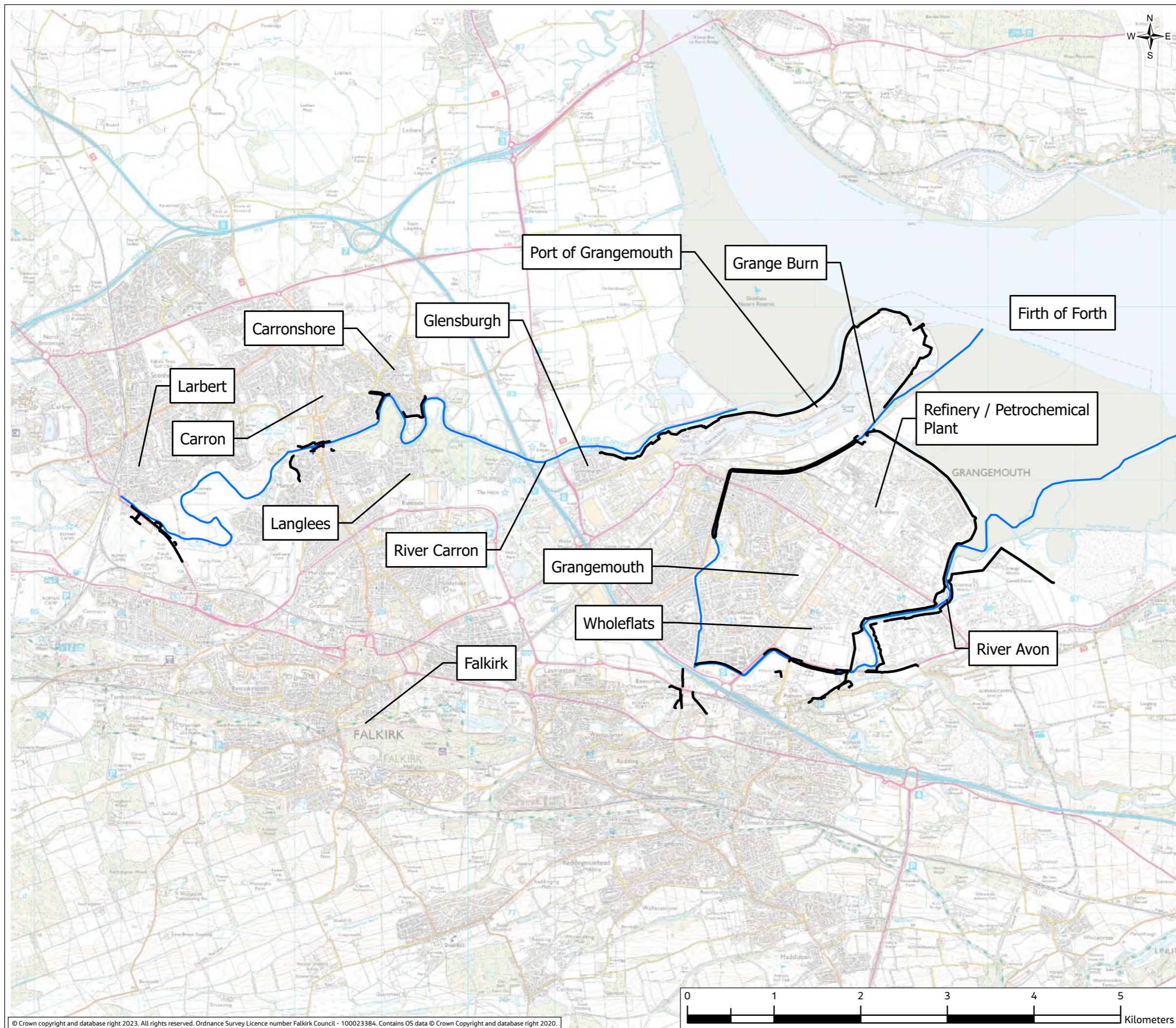
Appendix Figure A1.2: Flood Cell and Flood Extent Location

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  
 Flood Protection Scheme**

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

SHEET 1 OF 1

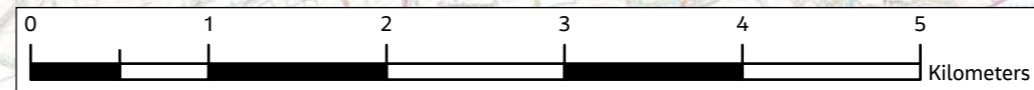
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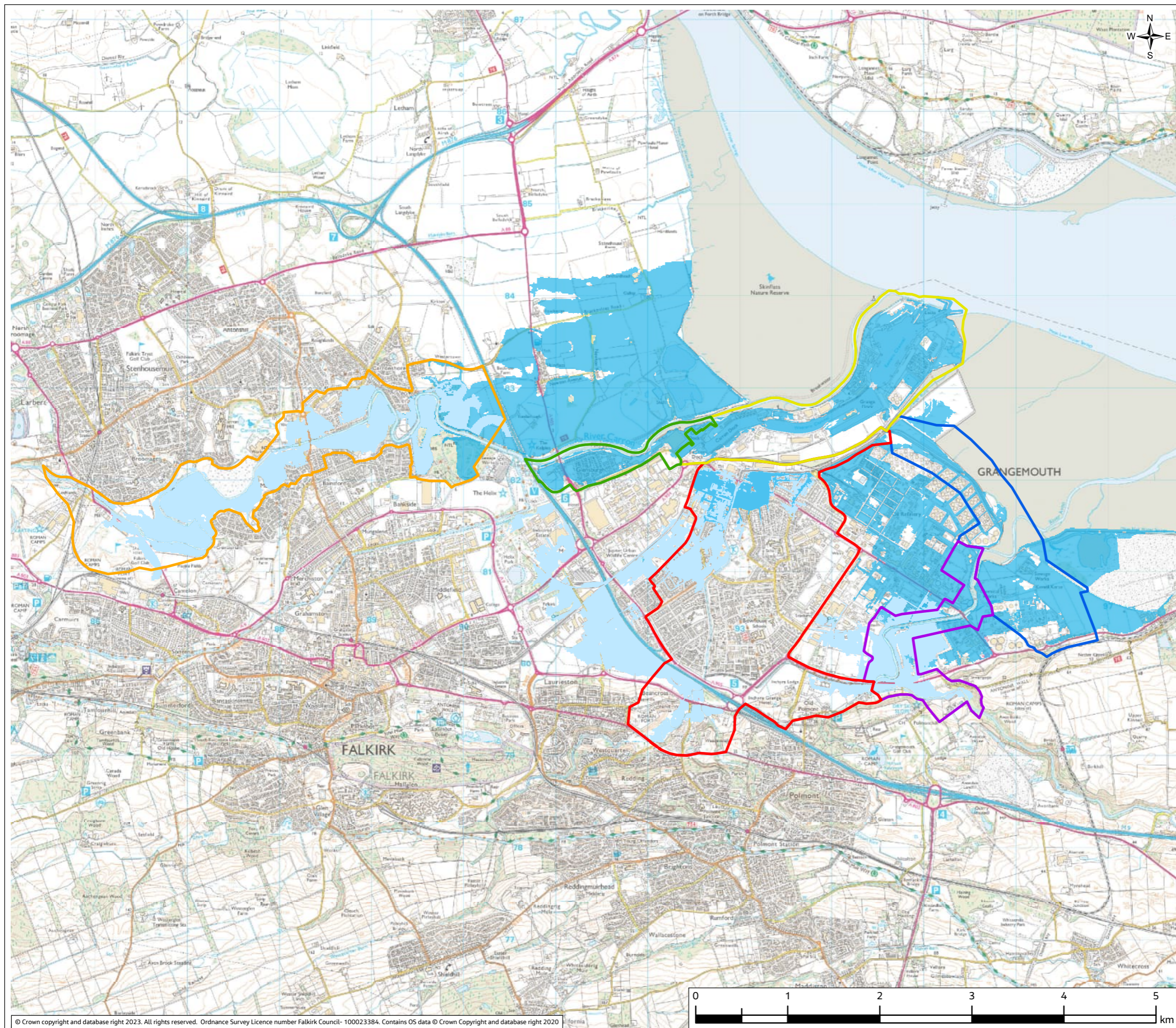
Jacobs No. **B2386100**  
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Drawing No. **Figure A1.1**

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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

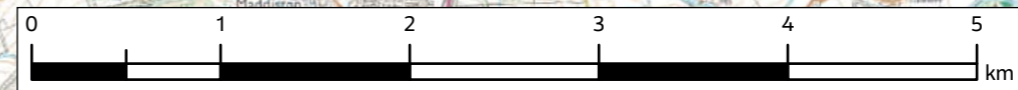
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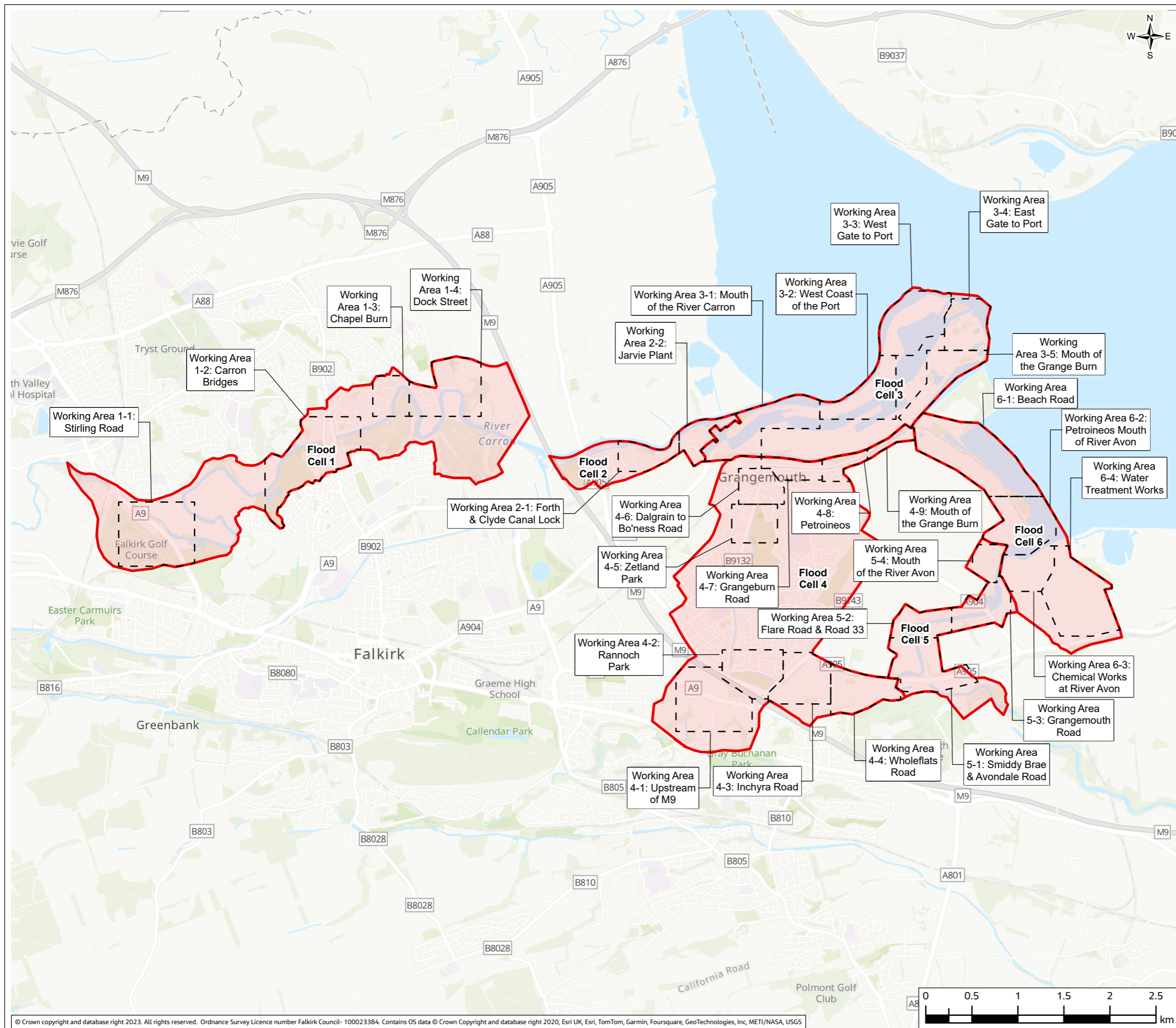
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**FIGURE A1.3**

**Legend**

- Flood Cells
- Working Areas



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Drawing Title	<b>FLOOD CELLS &amp; WORKING AREAS</b>	SHEET: 1 OF 1
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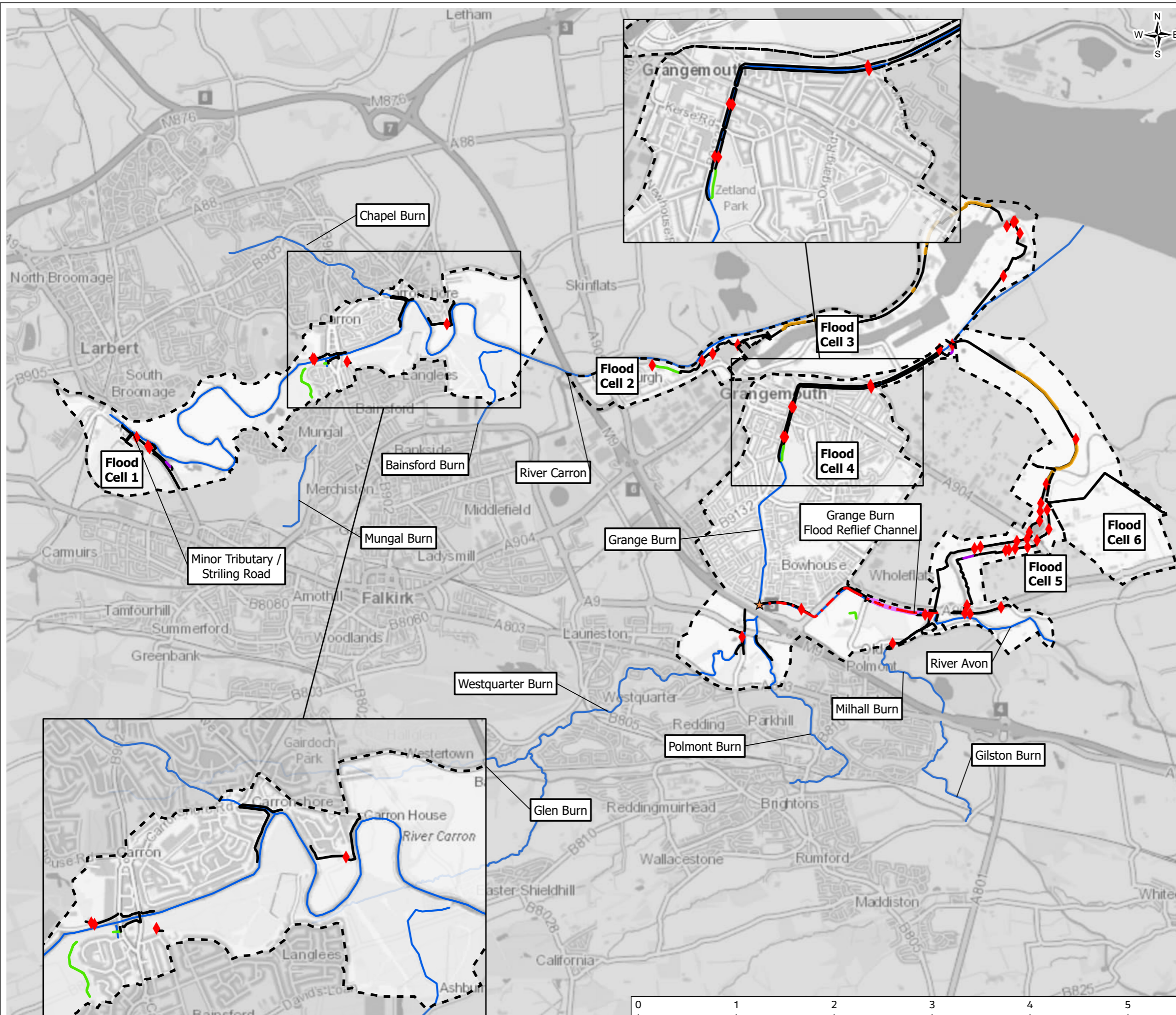
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**FIGURE A1.4**



**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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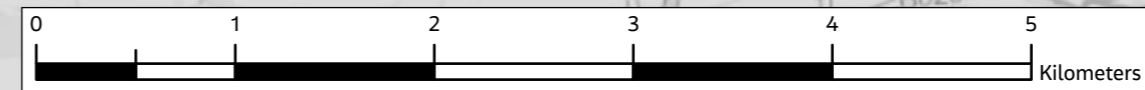
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# Environmental Impact Assessment Report

Scheme Figures (A4.1 - A4.28)

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**Falkirk Council**



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

- Figure A4.1: Working Area 1-1 / Stirling Road
  - Figure A4.2: Working Area 1-2 / Carron Bridges
  - Figure A4.3: Working Area 1-3 / Chapel Burn
  - Figure A4.4: Working Area 1-4 / Dock Street
  - Figure A4.5: Working Area 2-1 / Forth and Clyde Canal Lock
  - Figure A4.6: Working Area 2-2 / Jarvie Plant/Rosco Properties
  - Figure A4.7: Working Area 3-1 / Mouth of the River Carron
  - Figure A4.8: Working Area 3-2 / West Coast of the Port
  - Figure A4.9: Working Area 3-3 / West Gate to the Port
  - Figure A4.10: Working Area 3-4 / East Gate to the Port
  - Figure A4.11: Working Area 3-5 / Mouth of the Grange Burn
  - Figure A4.12: Working Area 4-1 / Upstream of M9
  - Figure A4.13: Working Area 4-2 / Flood Relief Channel – Rannoch Park
  - Figure A4.14: Working Area 4-3 / Flood Relief Channel – Inchyra Road
  - Figure A4.15: Working Area 4-4 / Flood Relief Channel – Whole-flats Road
  - Figure A4.16: Working Area 4-5 / Grange Burn – Zetland Park
  - Figure A4.17: Working Area 4-6 / Grange Burn – Dalgrain to Bo’Ness Road
  - Figure A4.18: Working Area 4-7 / Grange Burn – Grangeburn Road
  - Figure A4.19: Working Area 4-8 / Grange Burn – Petroineos
  - Figure A4.20: Working Area 4-9 / Grange Burn – Mouth of Grange Burn
  - Figure A4.21: Working Area 5-1 / Smiddy Brae & Avondale Road
  - Figure A4.22: Working Area 5-2 / Flare Road & Road 33
  - Figure A4.23: Working Area 5-3 / Grangemouth Road
  - Figure A4.24: Working Area 5-4 / Mouth of the River Avon
  - Figure A4.25: Working Area 6-1 / Beach Road
  - Figure A4.26: Working Area 6-2 / Mouth of River Avon
  - Figure A4.27: Working Area 6-3 Chemical Works at River Avon
  - Figure A4.28: Working Area 6 -4 / Water Treatment Works
-

**FIGURE A4.1**



**Legend**

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



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Flood Protection Scheme

**Drawing Title**  
FLOOD CELL 1 - WORKING AREA 1-1: STIRLING ROAD  
ALIGNMENT AND LAYOUT

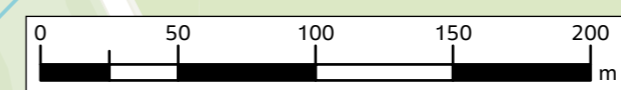
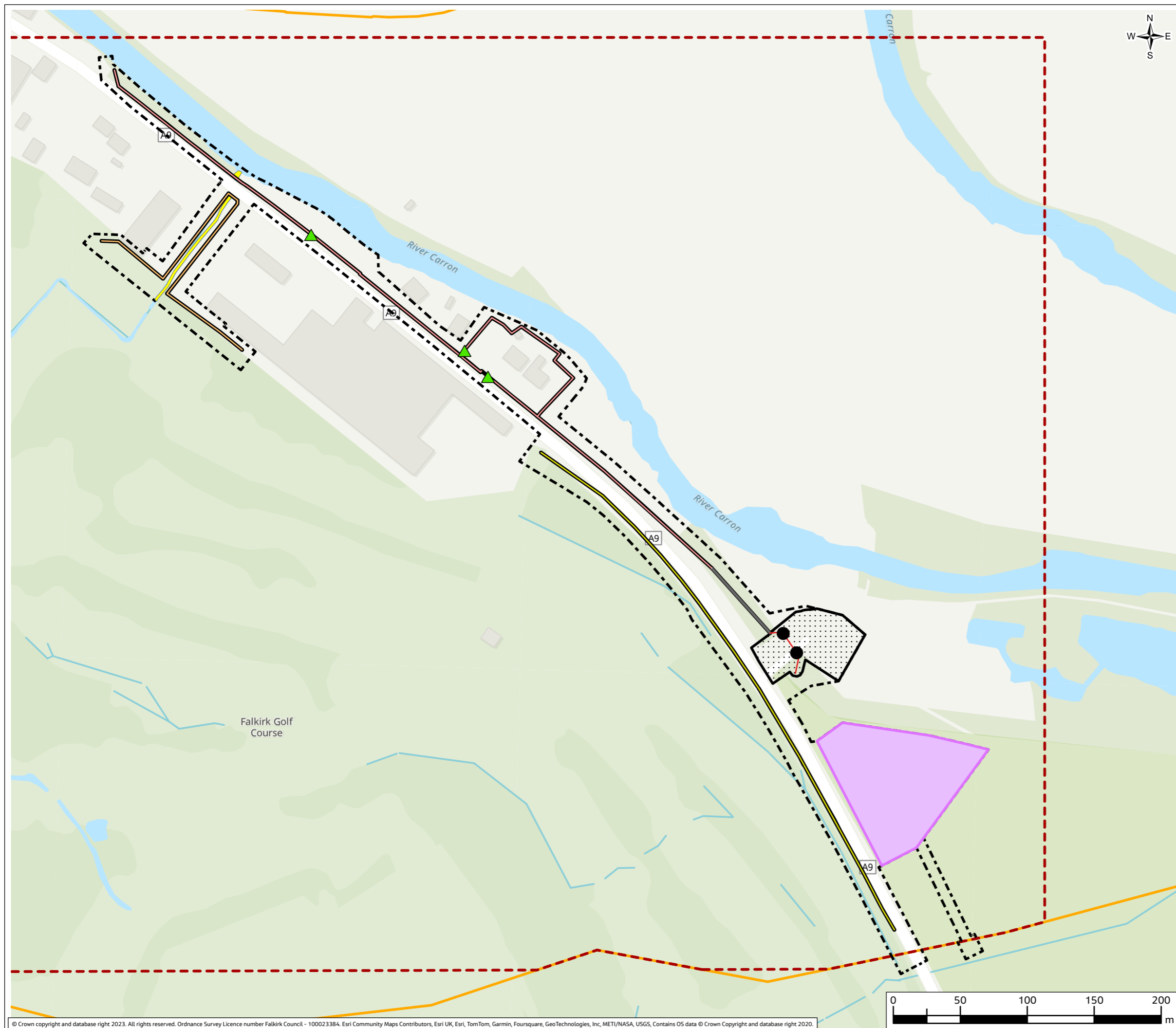
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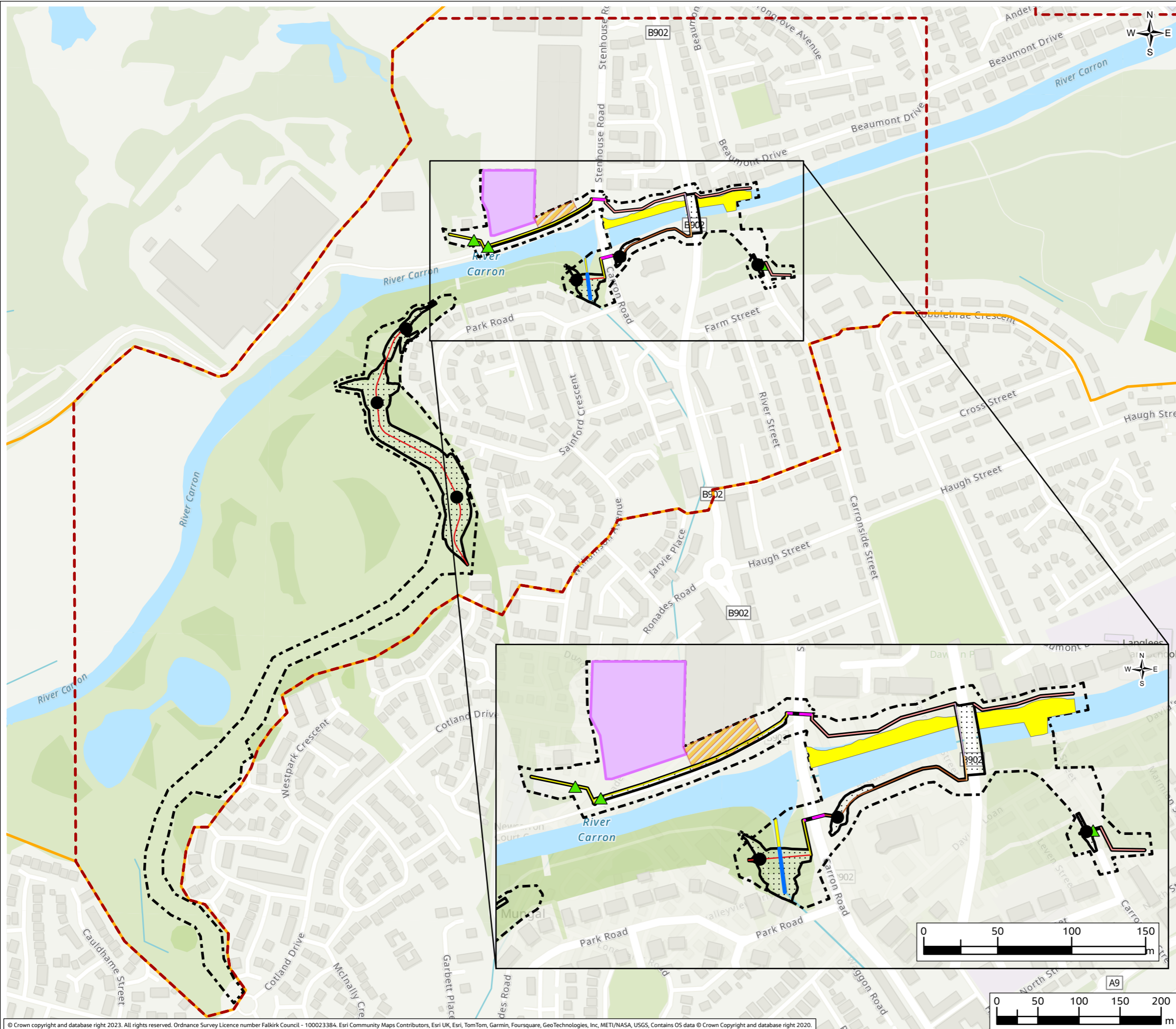
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**FIGURE A4.2**

**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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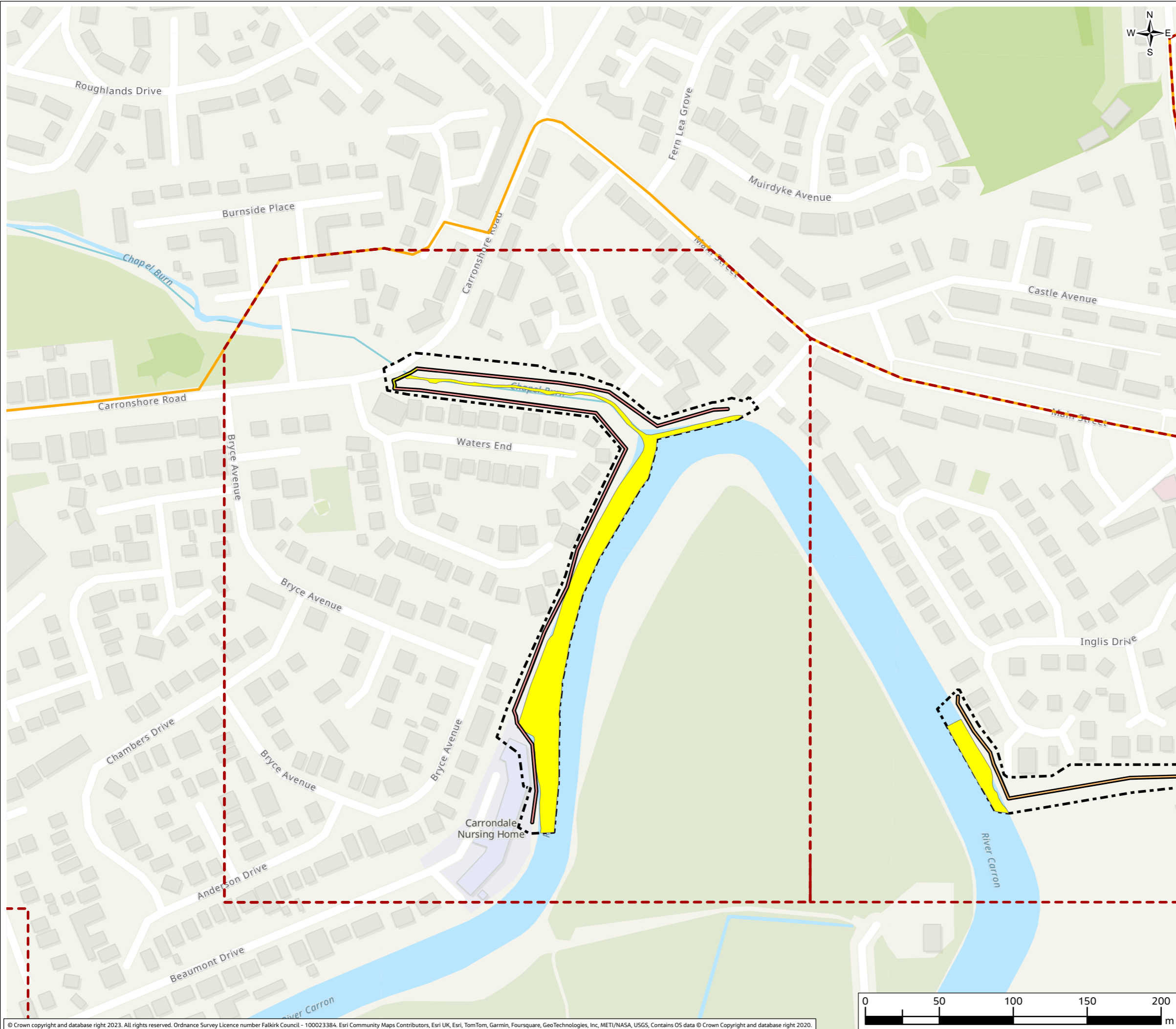
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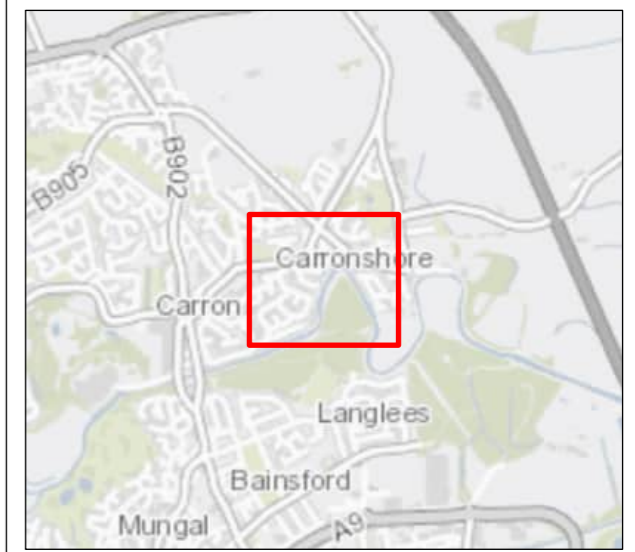
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**FIGURE A4.3**



- 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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 Grangemouth  
 Flood Protection Scheme

**Drawing Title**  
 FLOOD CELL 1 - WORKING AREA 1-3: CHAPEL BURN  
 ALIGNMENT AND LAYOUT  
 SHEET: 3 OF 4

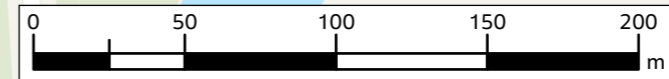
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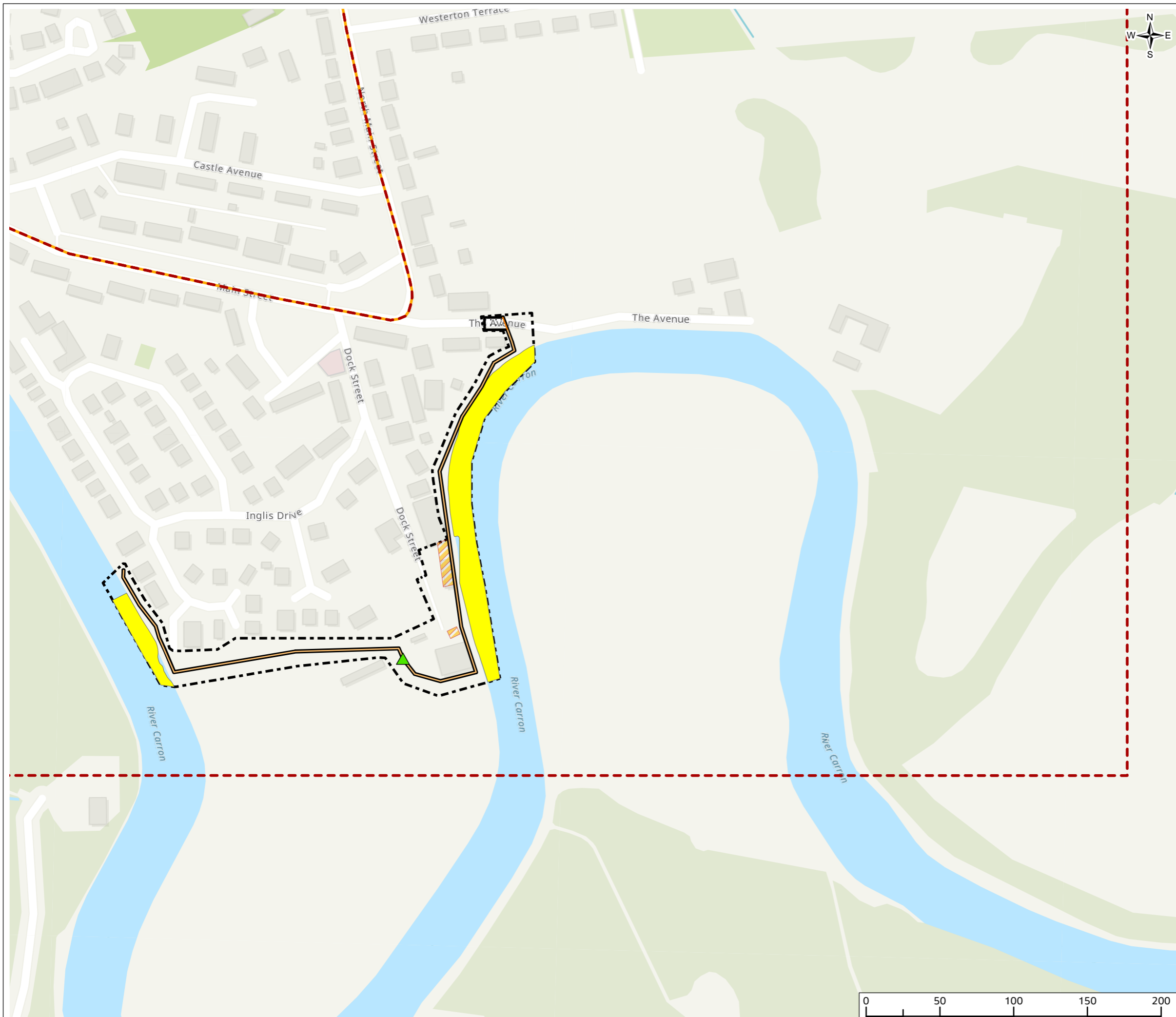
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**FIGURE A4.4**

**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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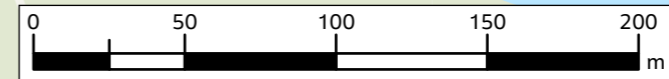
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SHEET:	4 OF 4

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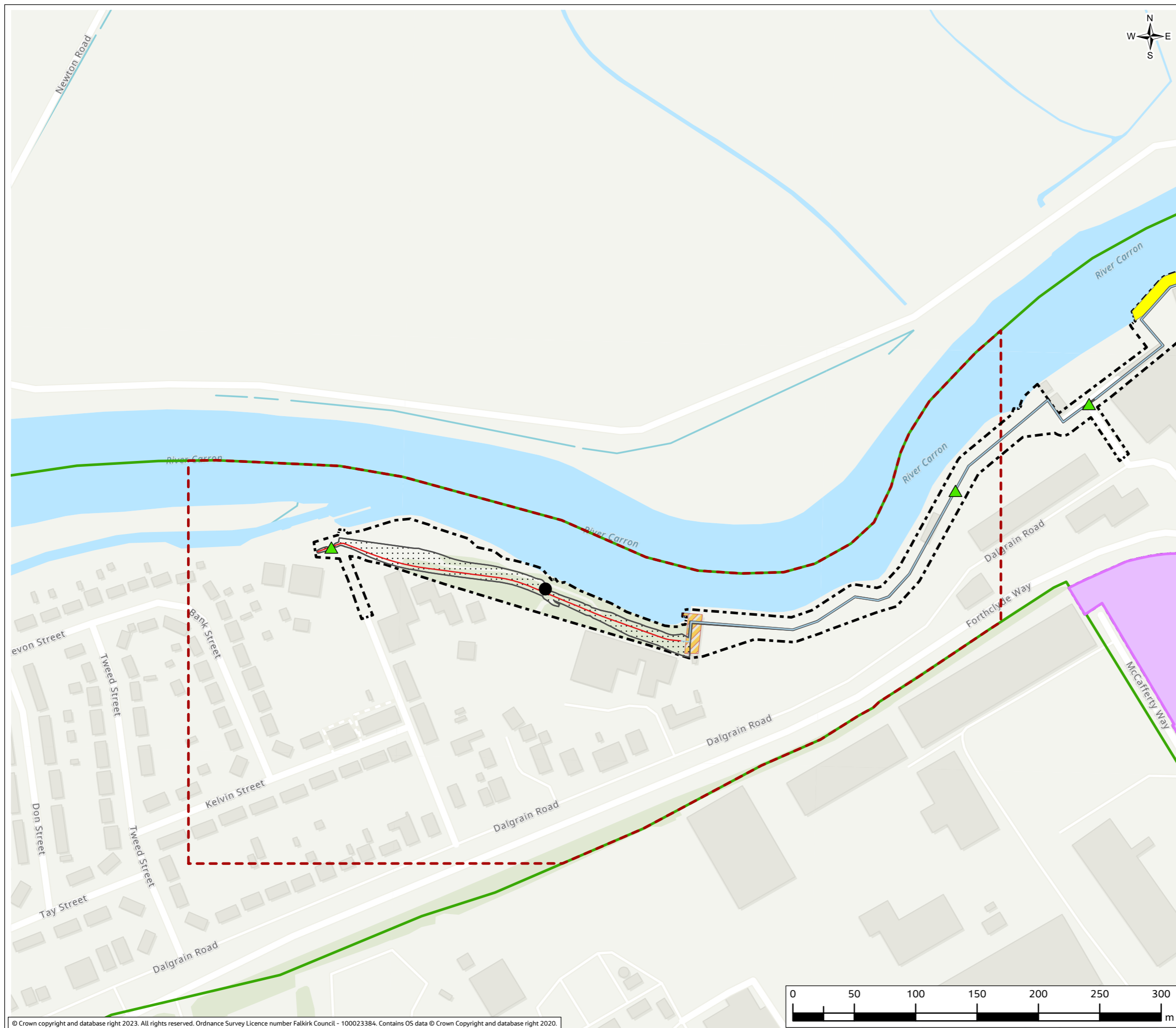
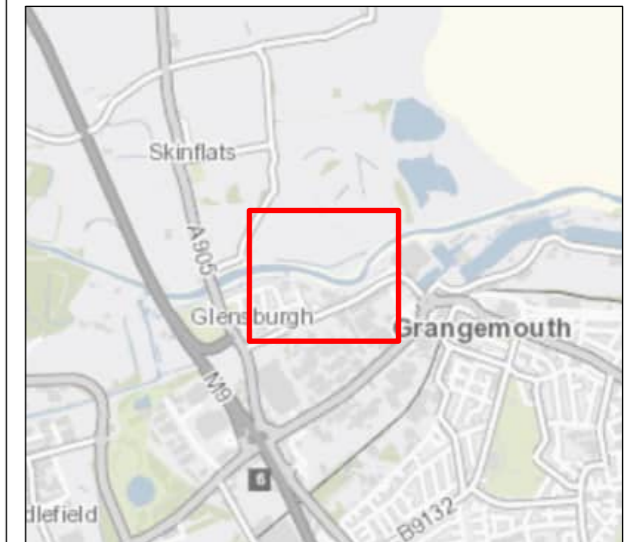
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**FIGURE A4.5**

**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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Drawing Title	FLOOD CELL 2 - WORKING AREA 2-1: FORTH & CLYDE CANAL LOCK ALIGNMENT AND LAYOUT
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SHEET: 1 OF 2

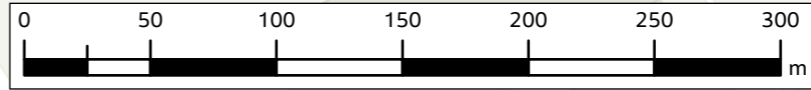
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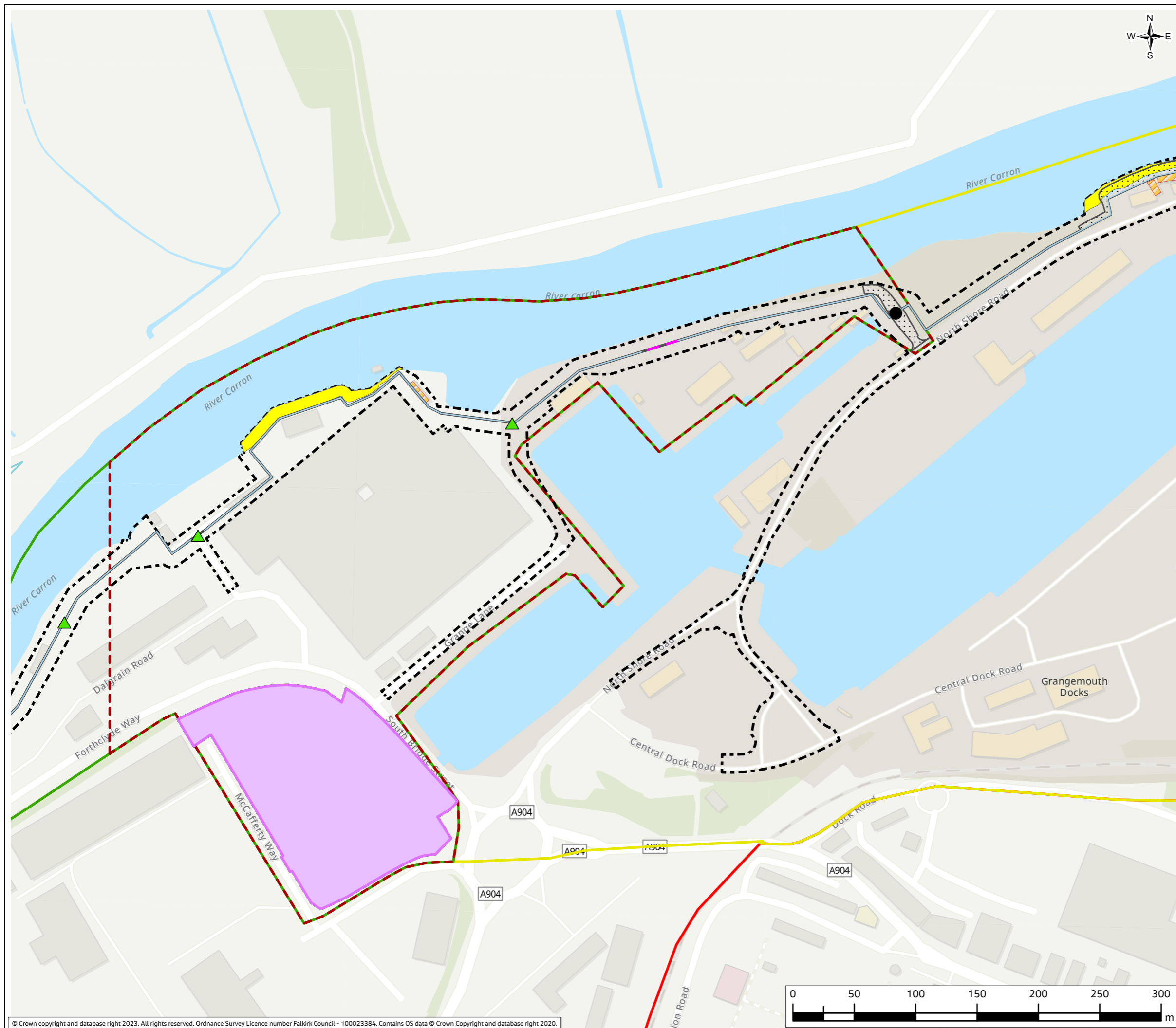
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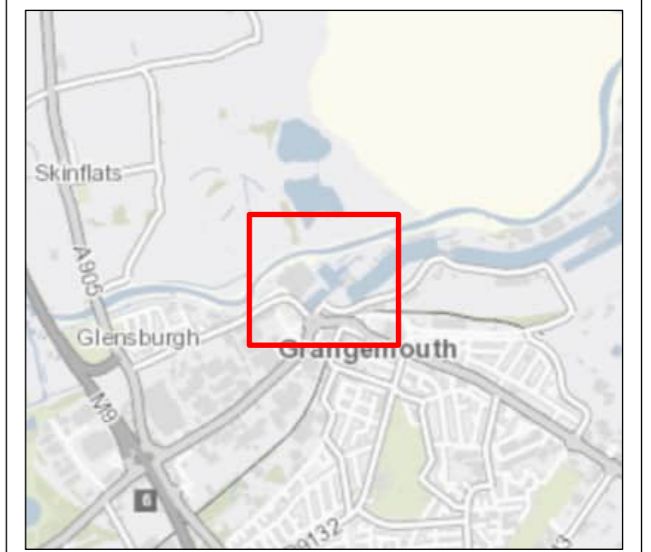




**FIGURE A4.6**



- 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
  - Access Point - Ramps



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**Drawing Title**  
 FLOOD CELL 2 - WORKING AREA 2-2: JARVIE PLANT  
 ALIGNMENT AND LAYOUT

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

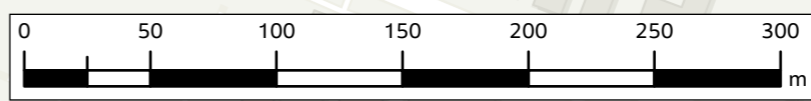
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**Drawing No.** Figure A4.6











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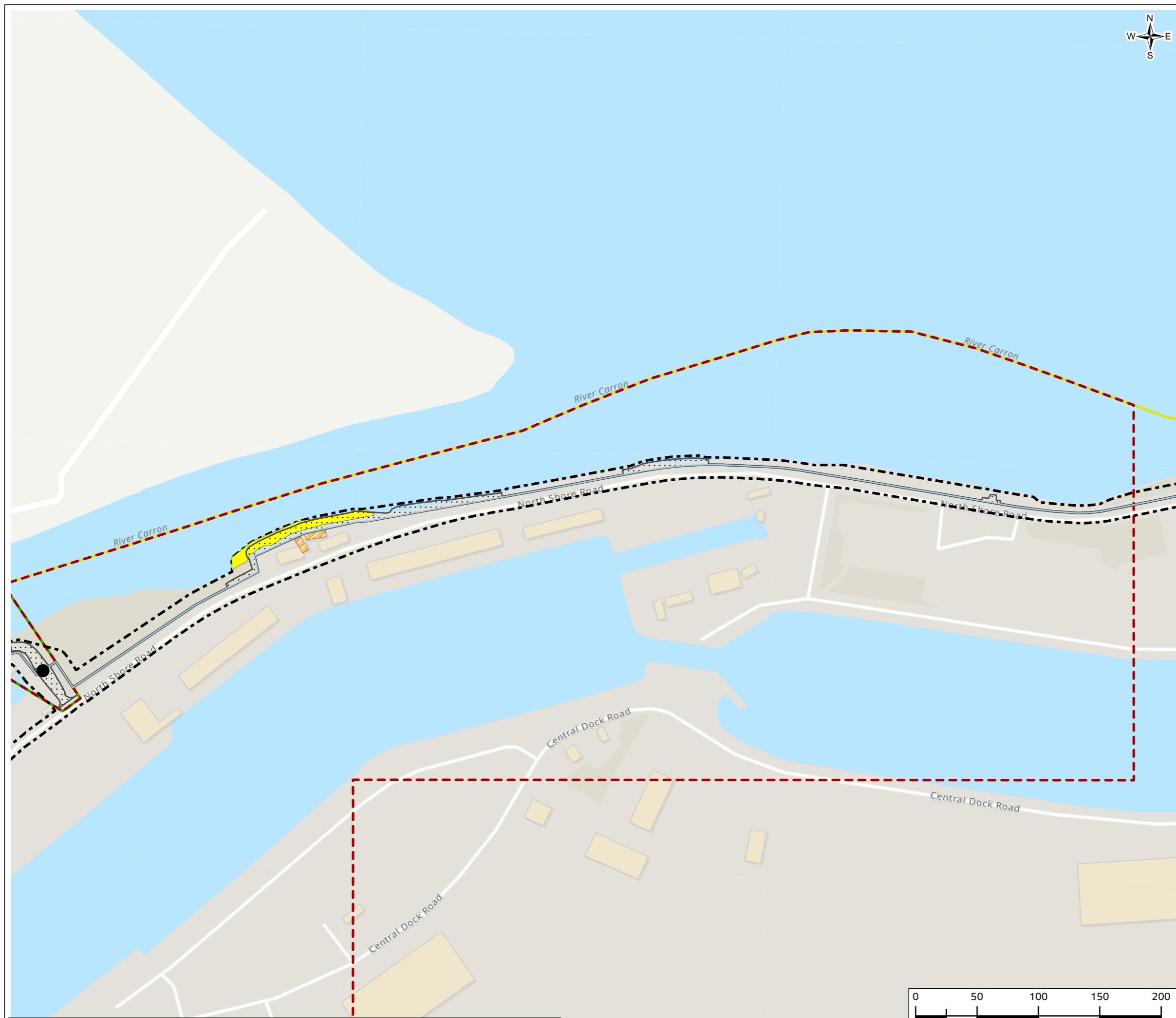
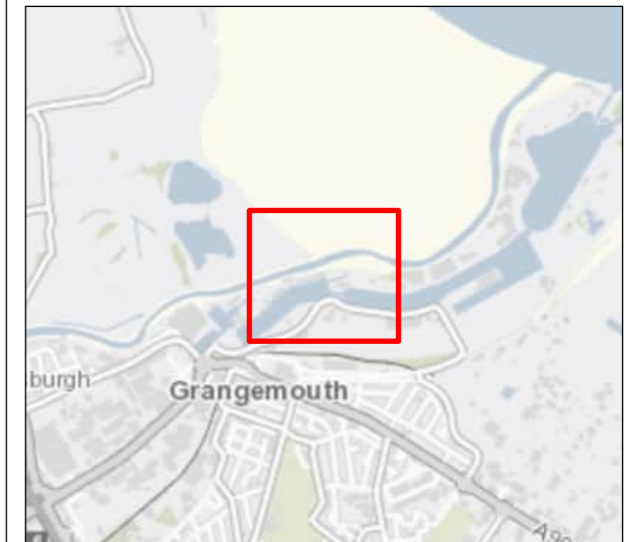


**FIGURE A4.7**





**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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Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd

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**Project**  
 Grangemouth  
 Flood Protection Scheme

**Drawing Title**  
 FLOOD CELL 3 - WORKING AREA 3-1: MOUTH OF THE RIVER CARRON  
 ALIGNMENT AND LAYOUT

**SHEET: 1 OF 5**

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

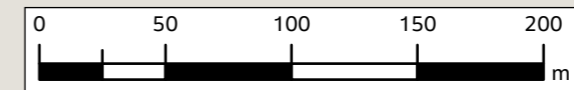
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**Client No.**







**Drawing No.** Figure A4.7

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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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Project	Grangemouth Flood Protection Scheme
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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

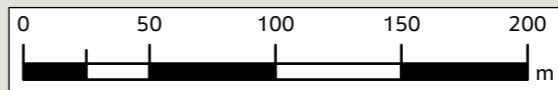
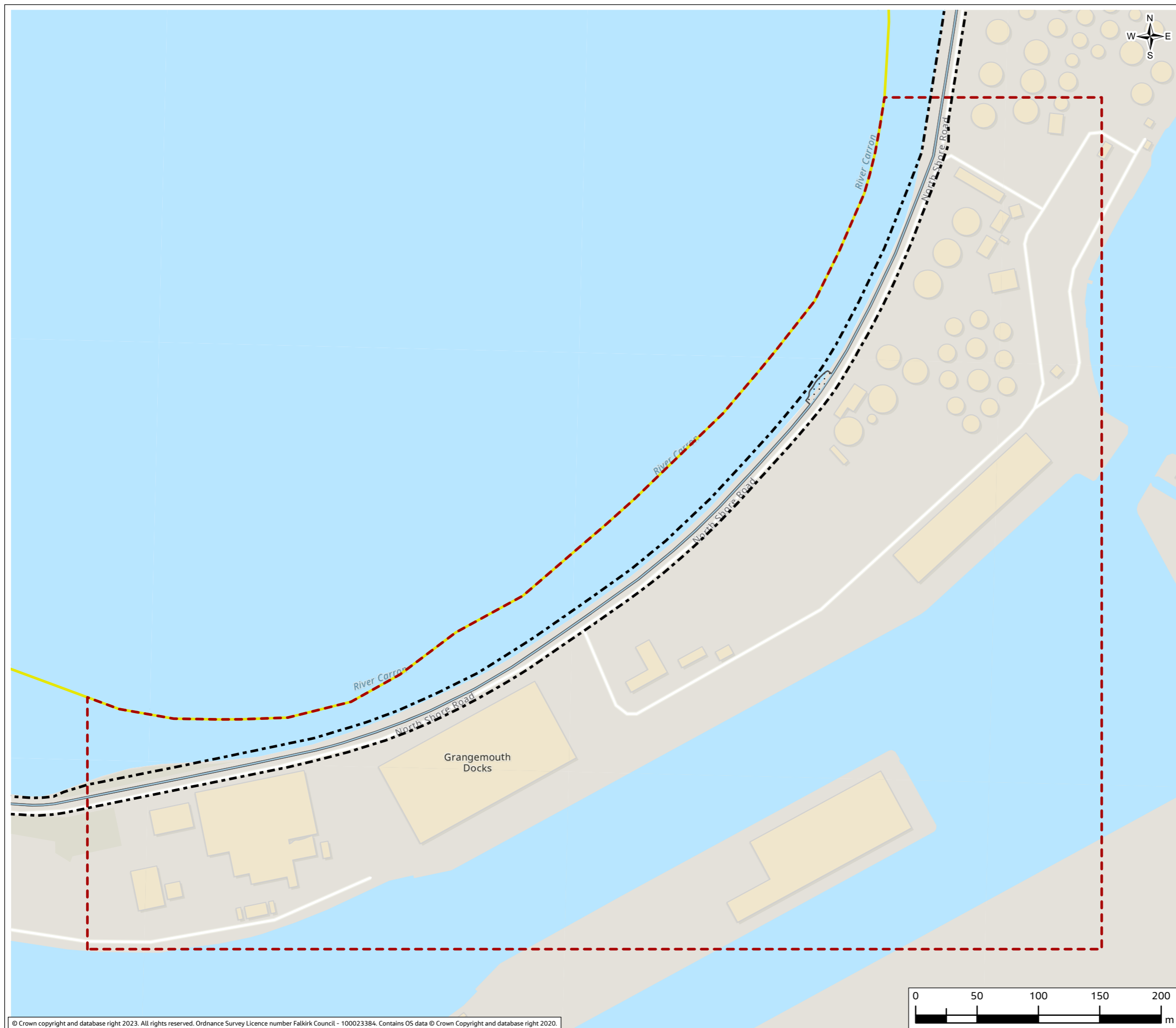
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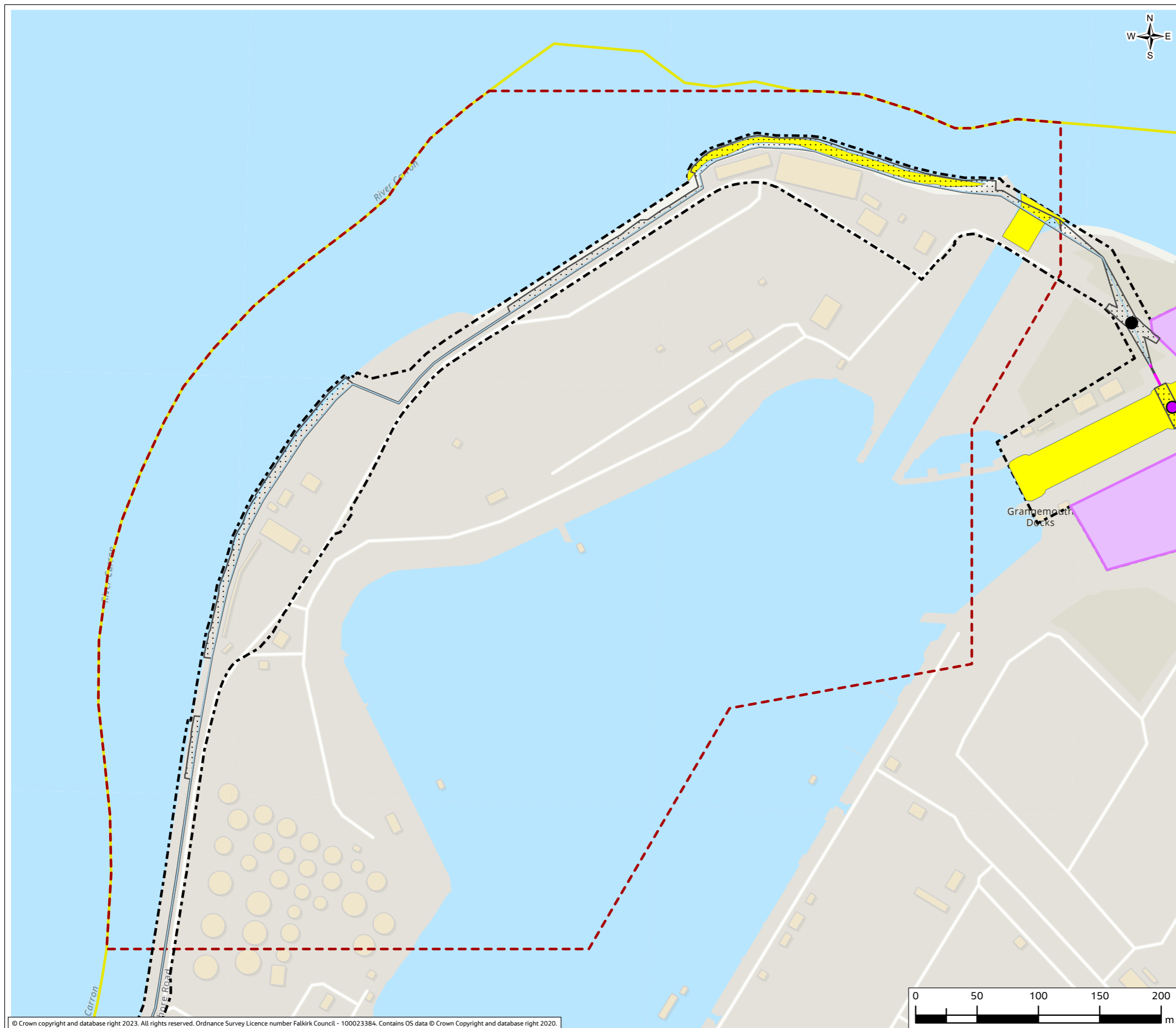
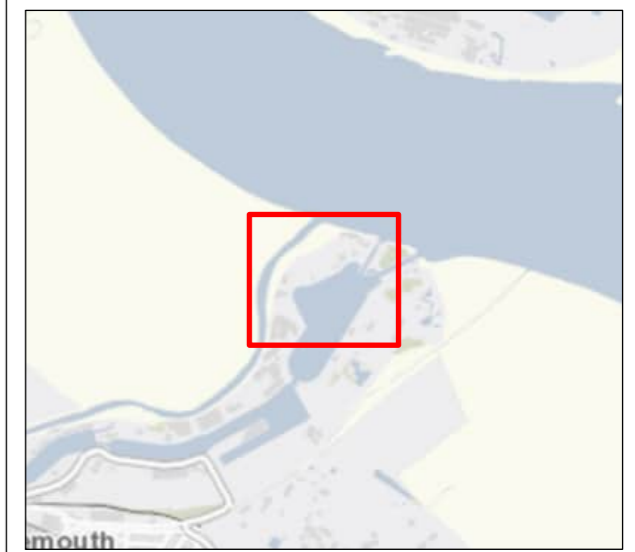


**FIGURE A4.9**



**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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Project	Grangemouth Flood Protection Scheme
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Drawing Title	FLOOD CELL 3 - WORKING AREA 3-3: WEST GATE TO PORT ALIGNMENT AND LAYOUT
SHEET: 3 OF 5	

Drawing Status	S8-SUITABLE FOR STATUTORY CONSENT
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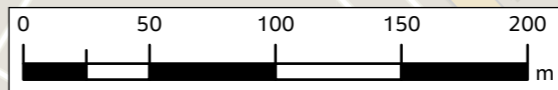
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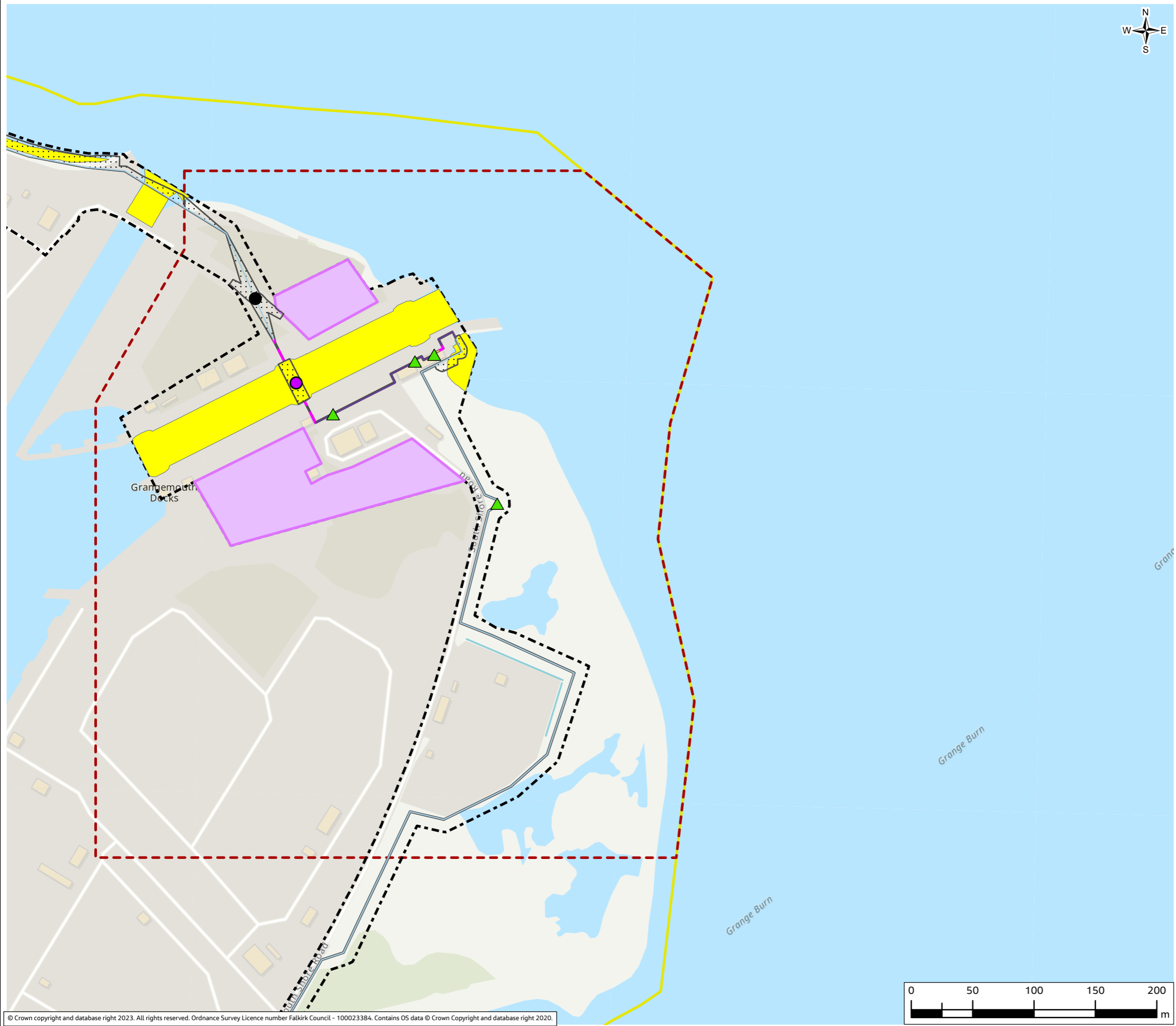
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**FIGURE A4.10**



- 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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Project  
**Grangemouth  
Flood Protection Scheme**

Drawing Title  
**FLOOD CELL 3 - WORKING AREA 3-4: EAST GATE TO PORT  
ALIGNMENT AND LAYOUT**

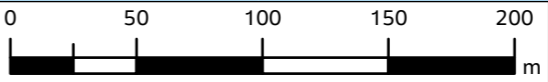
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Drawing No. **Figure A4.10**

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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**

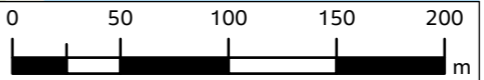
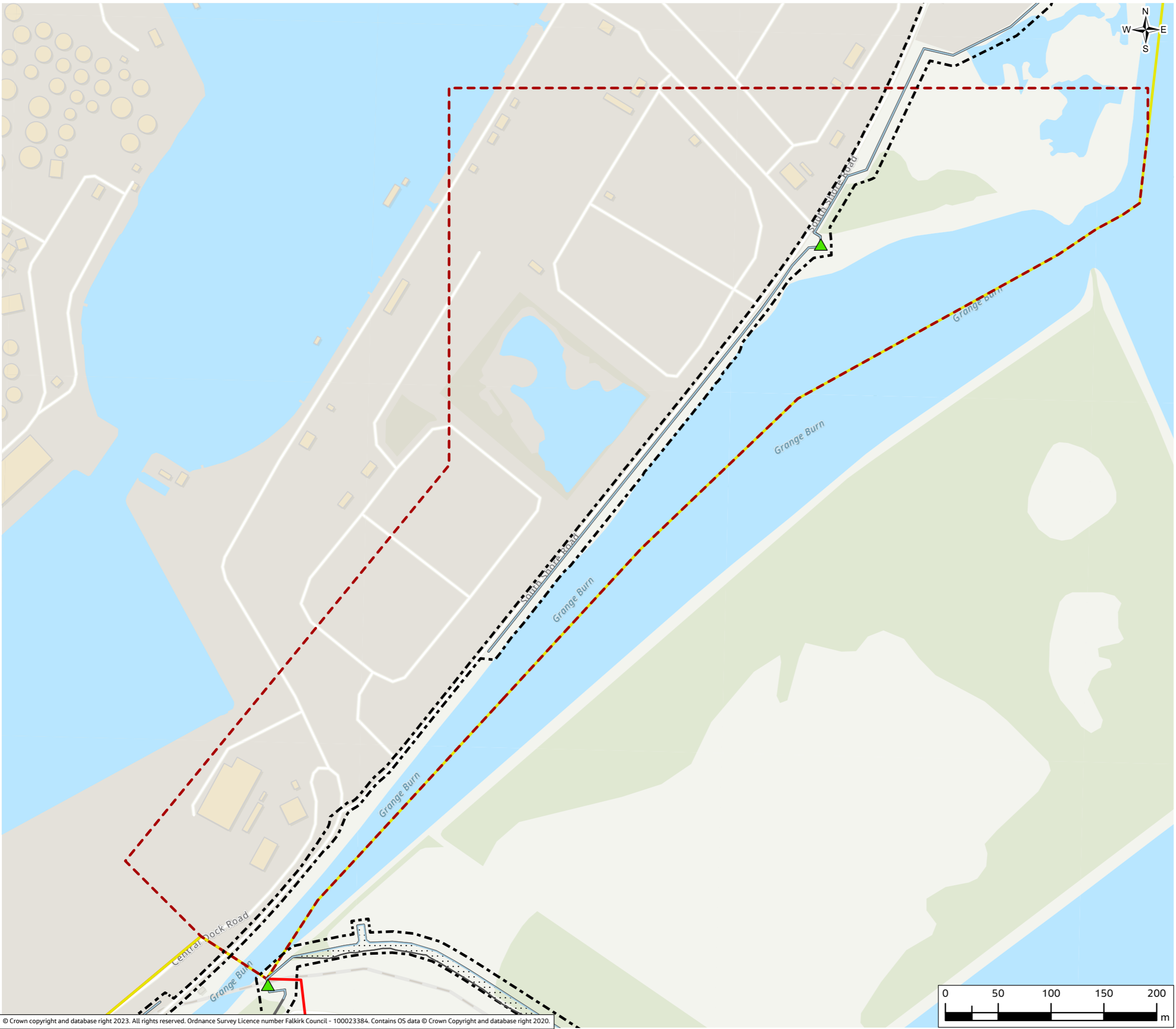
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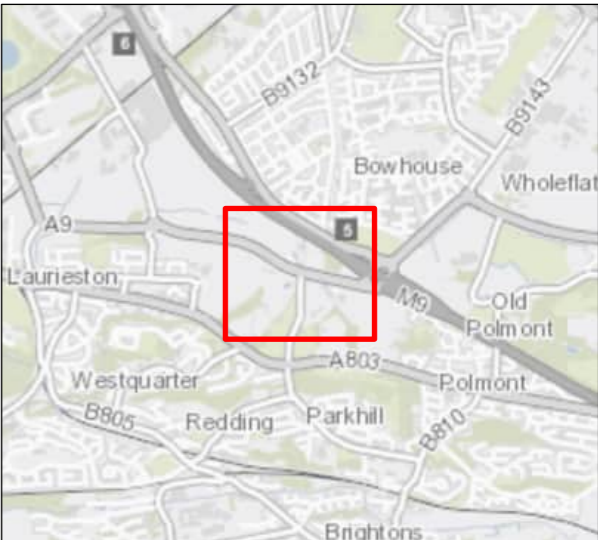
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**FIGURE A4.12**



- 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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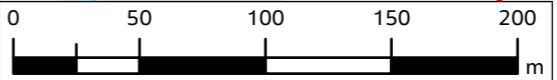
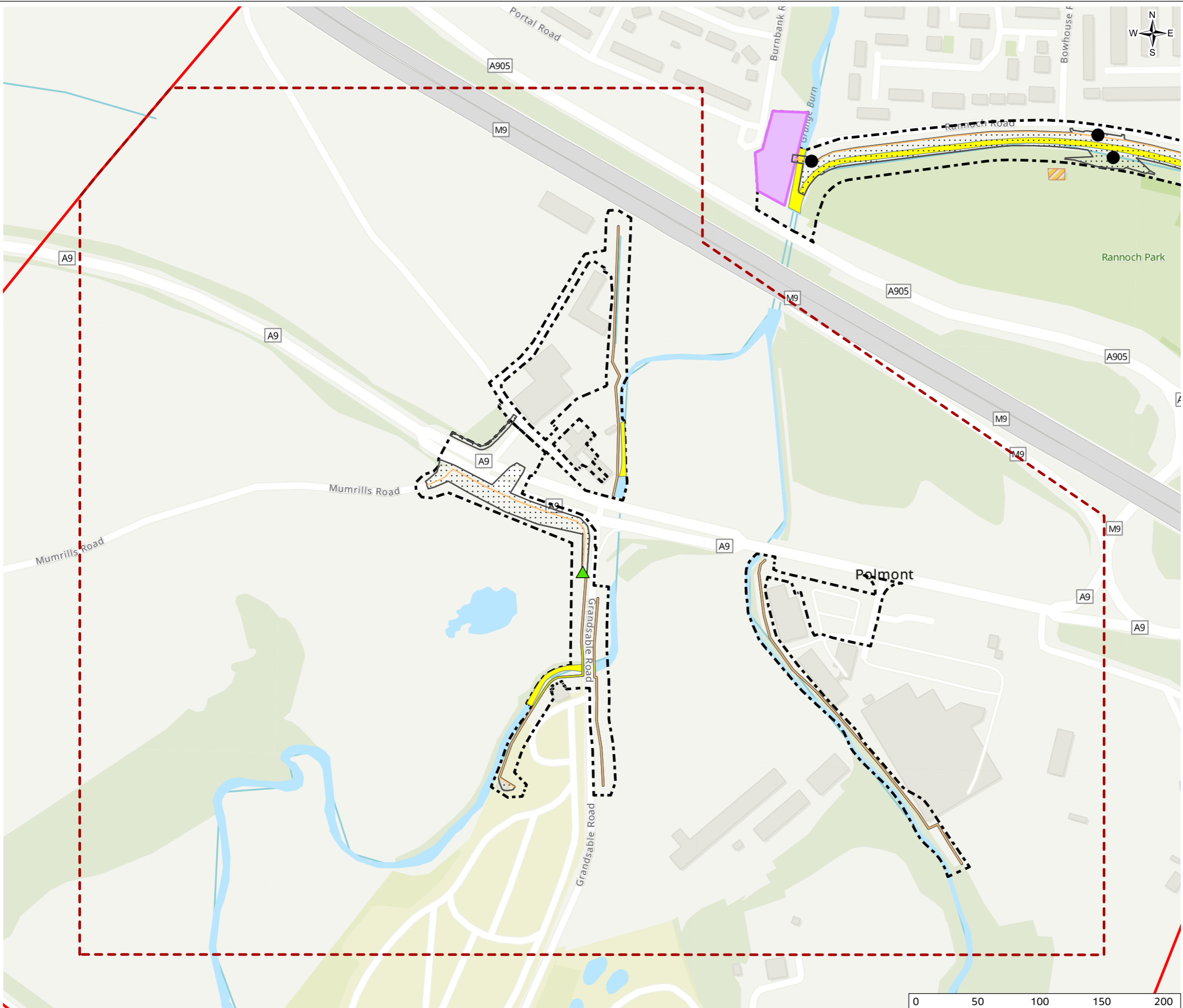
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Drawing No.: Figure A4.12

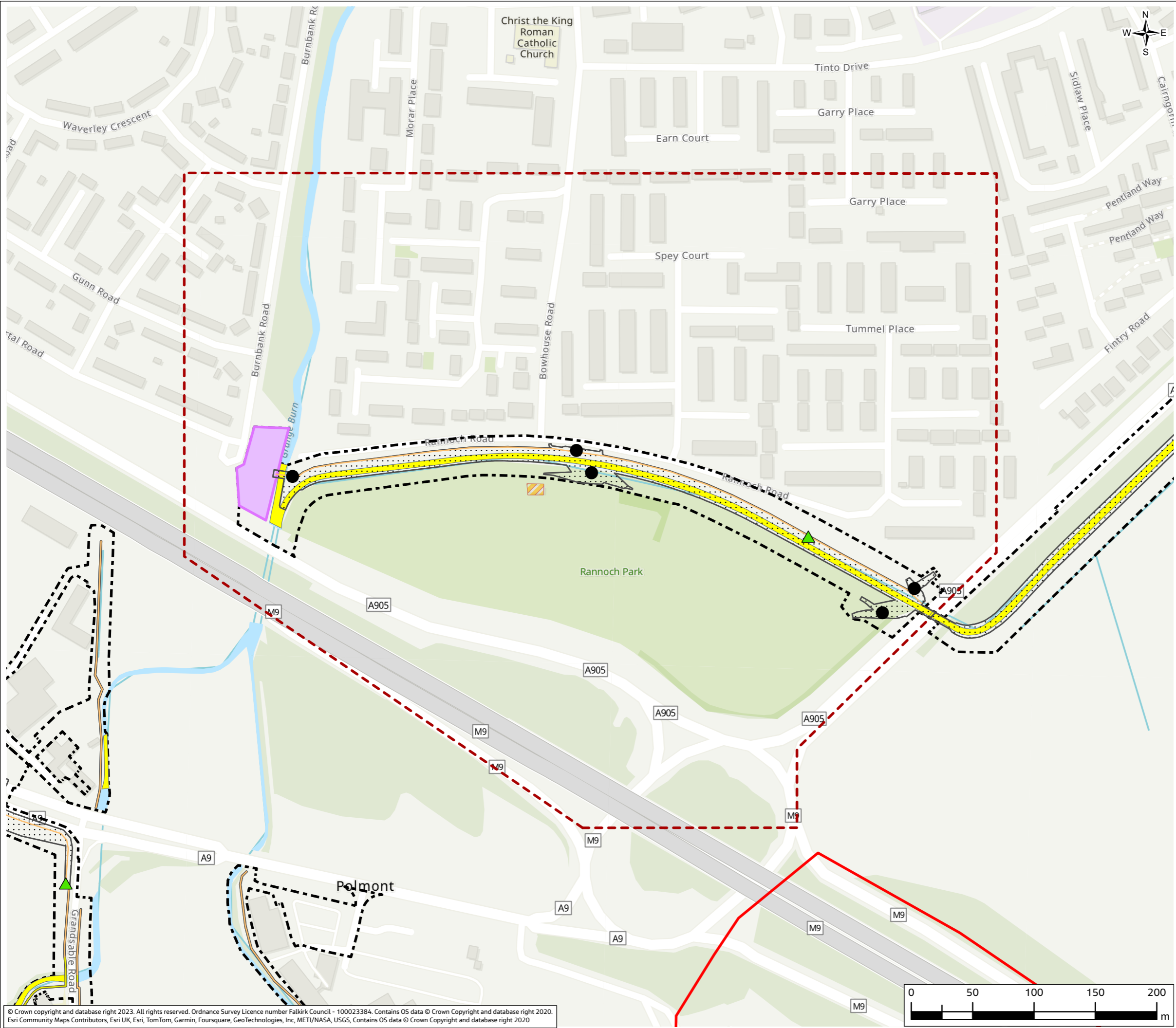
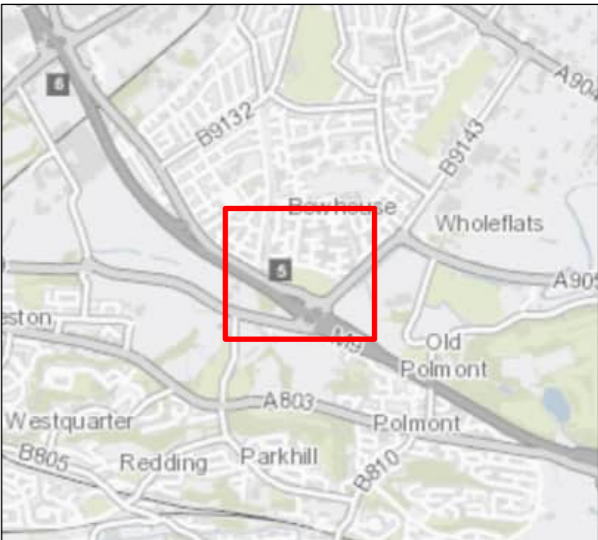
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**FIGURE A4.13**

- 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
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SHEET: 2 OF 9

Drawing Status	S8-SUITABLE FOR STATUTORY CONSENT
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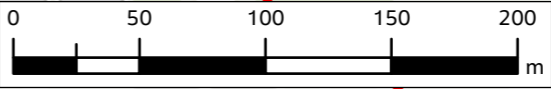
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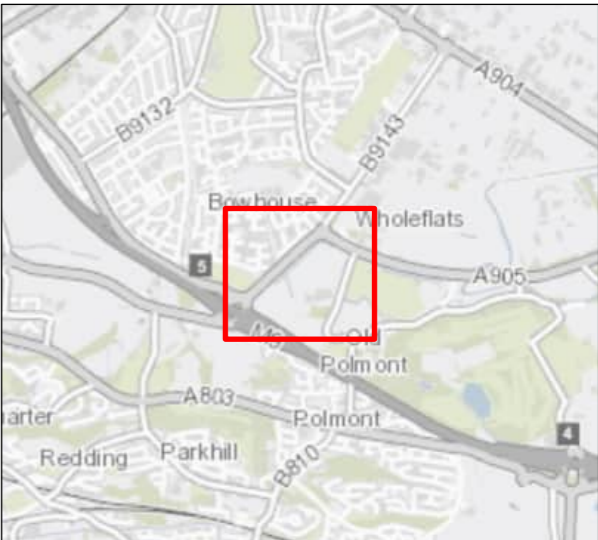




**FIGURE A4.14**

**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

**Drawing Title**  
FLOOD CELL 4 - WORKING AREA 4-3: FRC - INCHYRA ROAD  
ALIGNMENT AND LAYOUT

SHEET: 3 OF 9

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

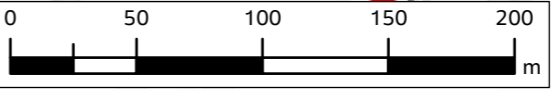
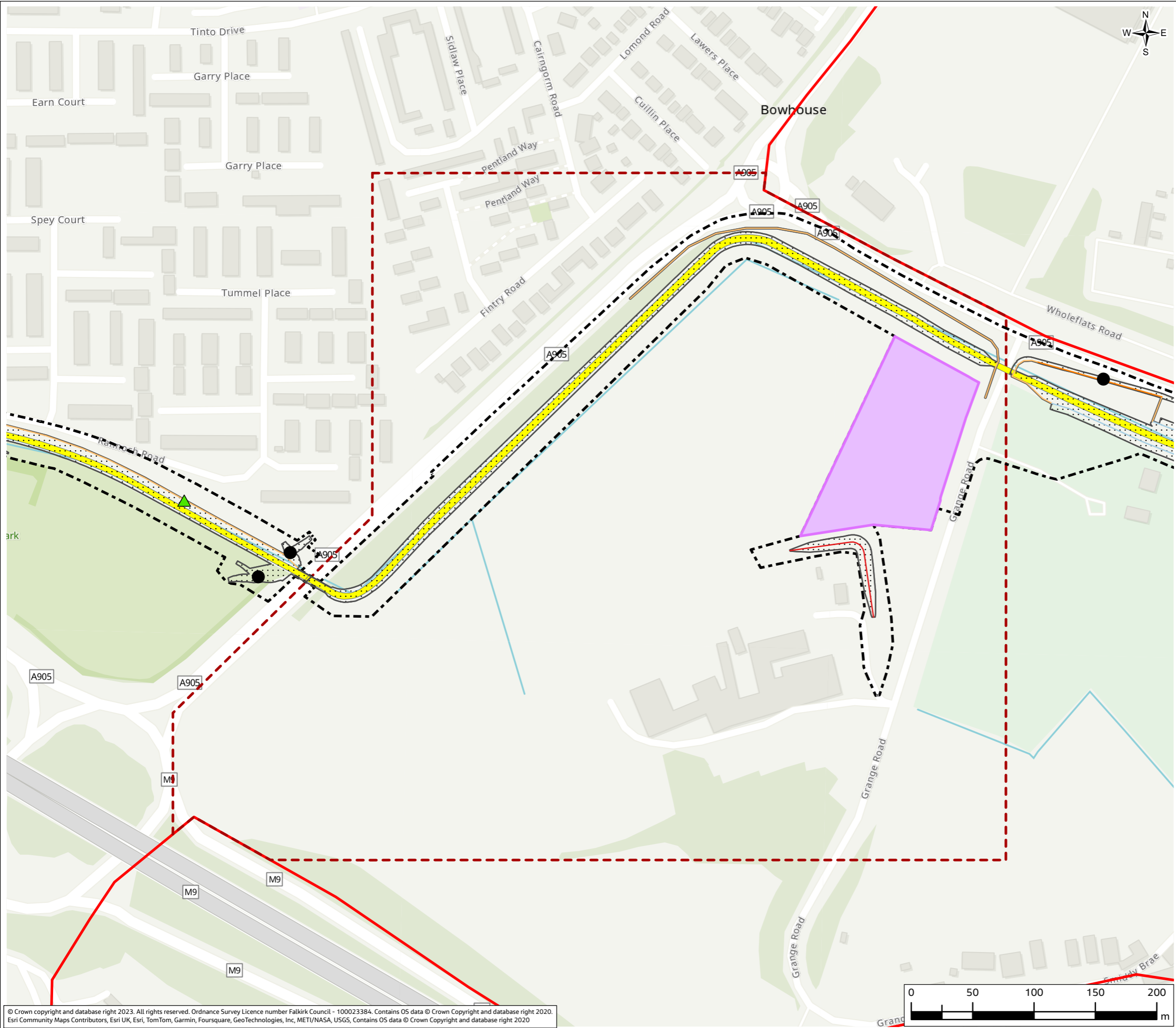
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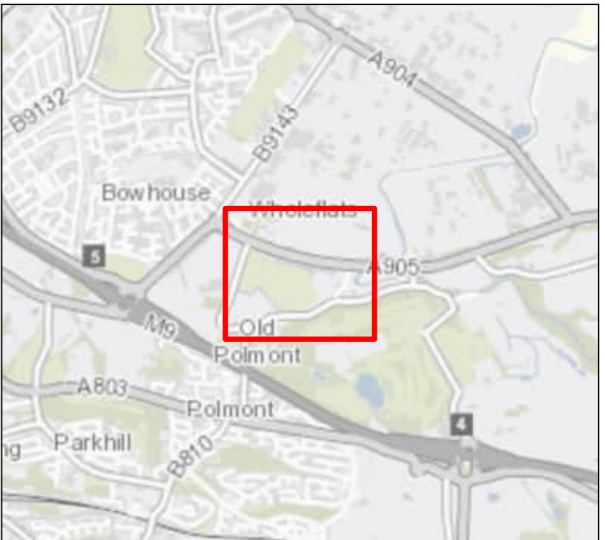


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**FIGURE A4.15**

**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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**Project**  
Grangemouth  
Flood Protection Scheme

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

SHEET: 4 OF 9

**Drawing Status**  
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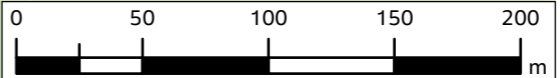
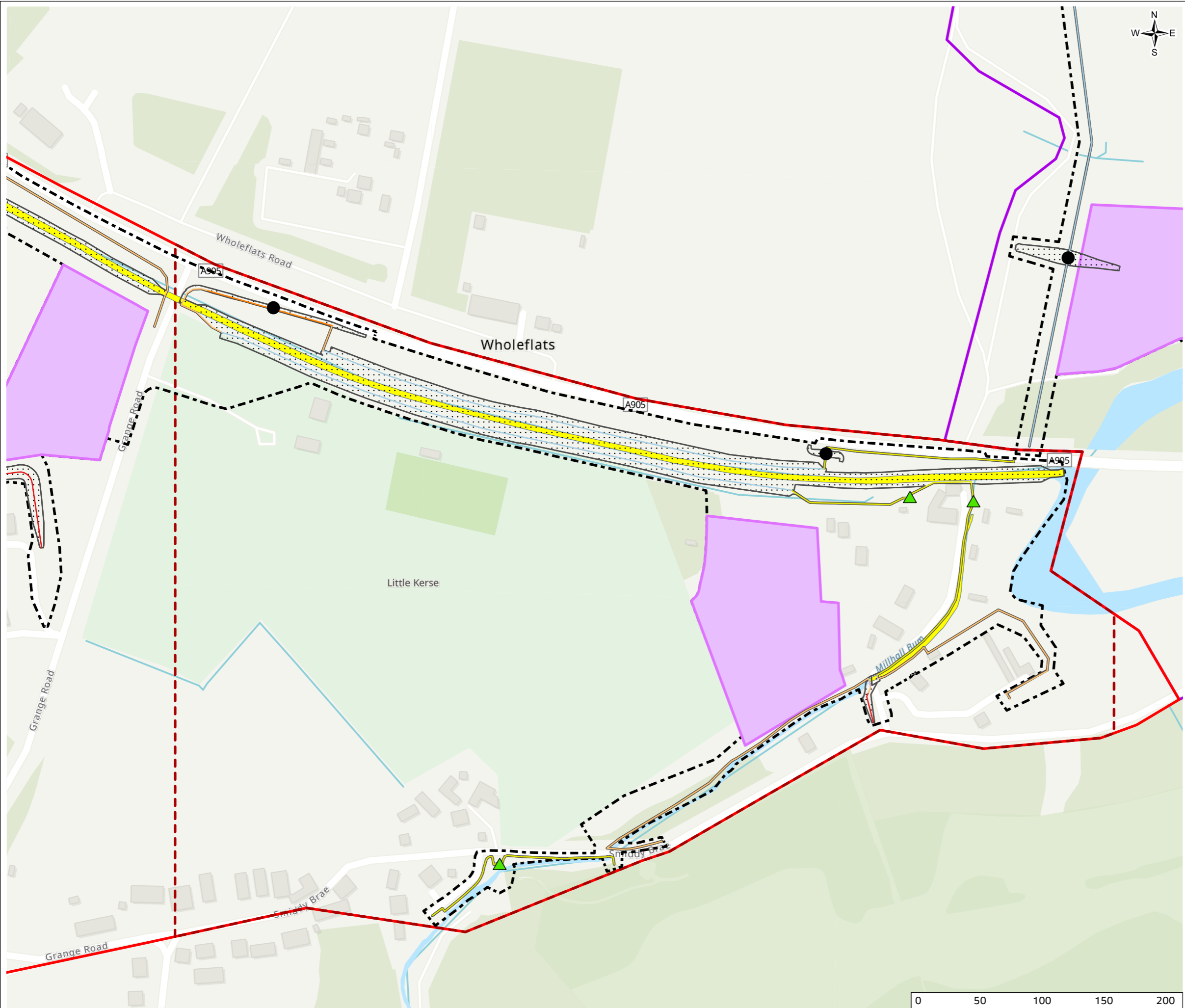
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Figure A4.15

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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**  
 Grangemouth  
 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

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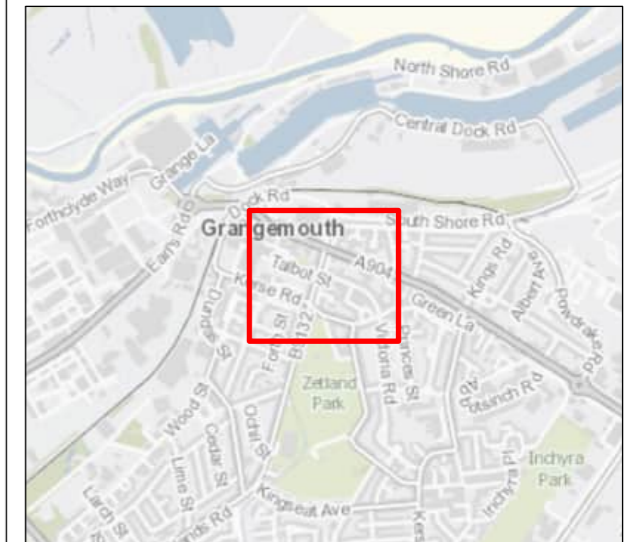
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**FIGURE A4.17**

**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

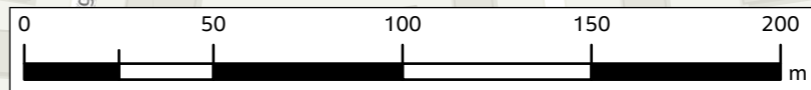
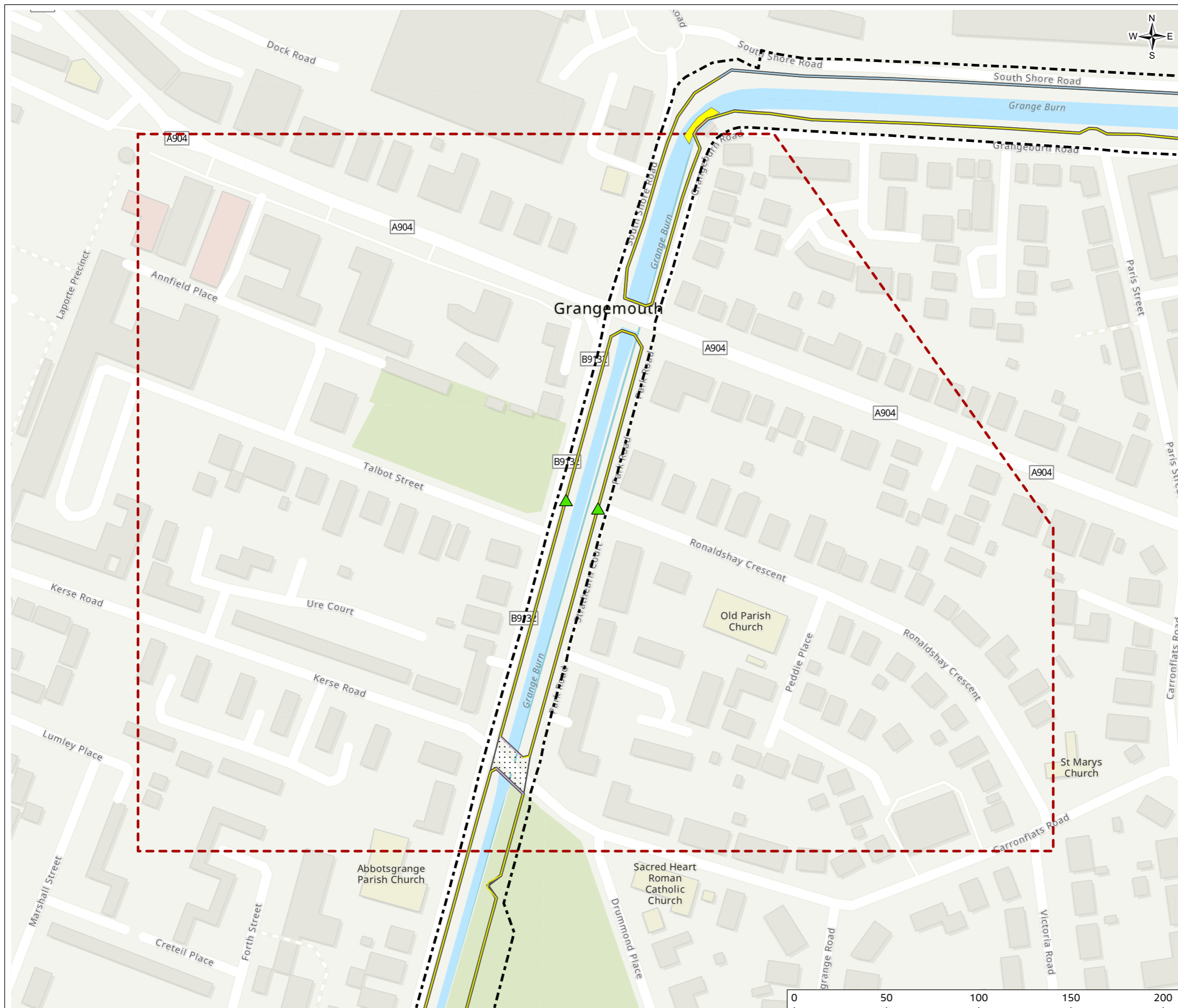
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SHEET:	6 OF 9

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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
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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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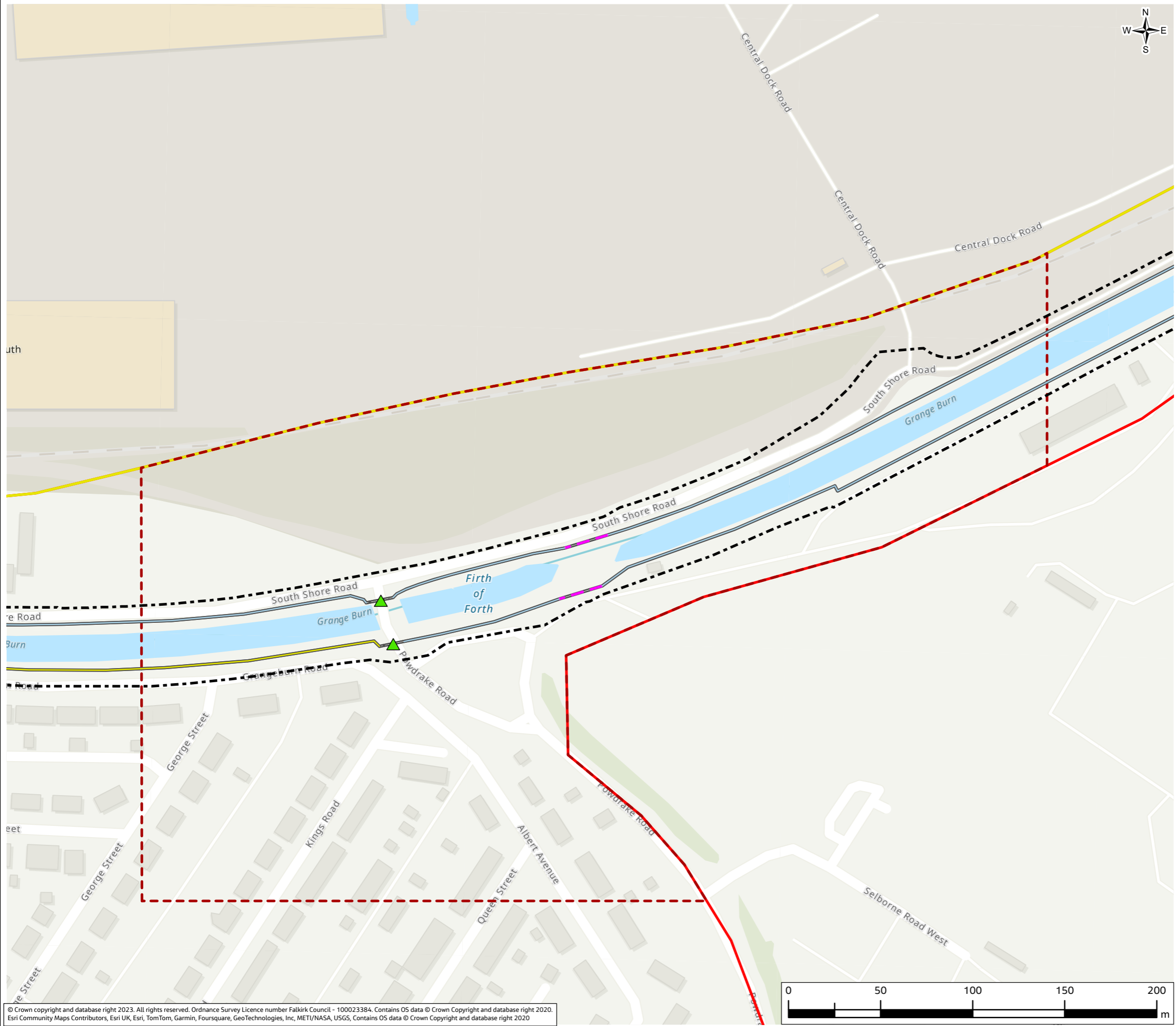
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**FIGURE A4.19**




- 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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Drawing Title	FLOOD CELL 4 - WORKING AREA 4-8: GB - PETROINEOS ALIGNMENT AND LAYOUT
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SHEET: 8 OF 9

Drawing Status	S8-SUITABLE FOR STATUTORY CONSENT
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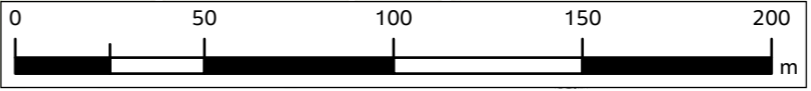
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**FIGURE A4.20**



- 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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Project: **Grangemouth Flood Protection Scheme**

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

SHEET: 9 OF 9

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

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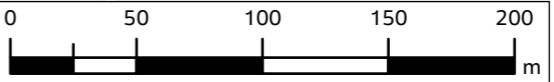
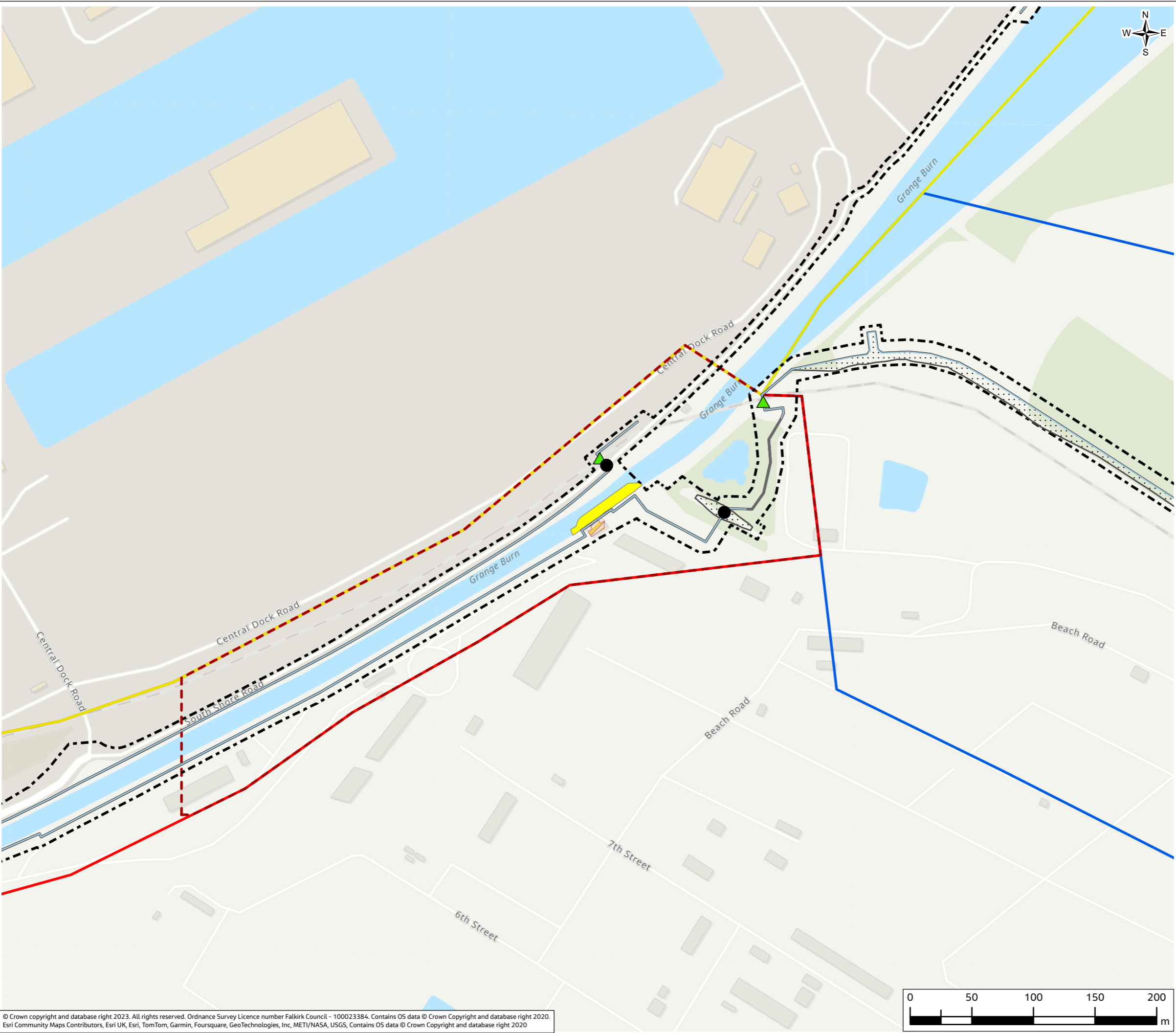
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Figure A4.20

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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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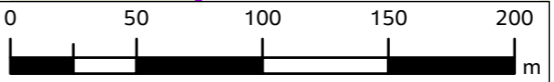
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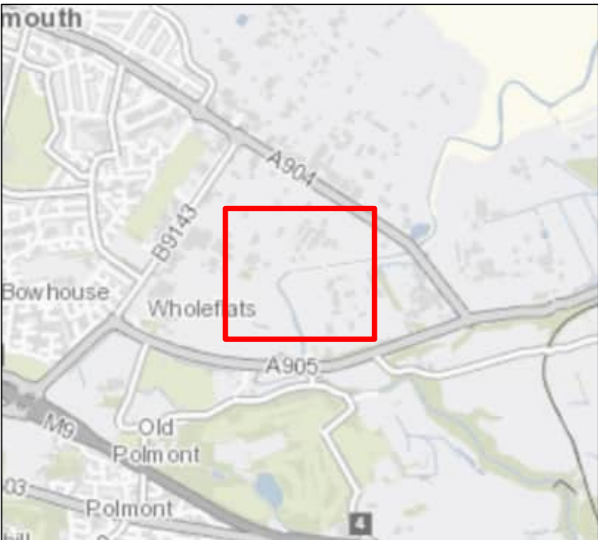
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**FIGURE A4.22**

- 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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**Project**  
 Grangemouth  
 Flood Protection Scheme

**Drawing Title**  
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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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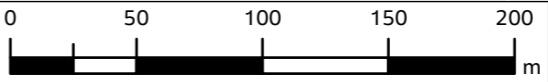
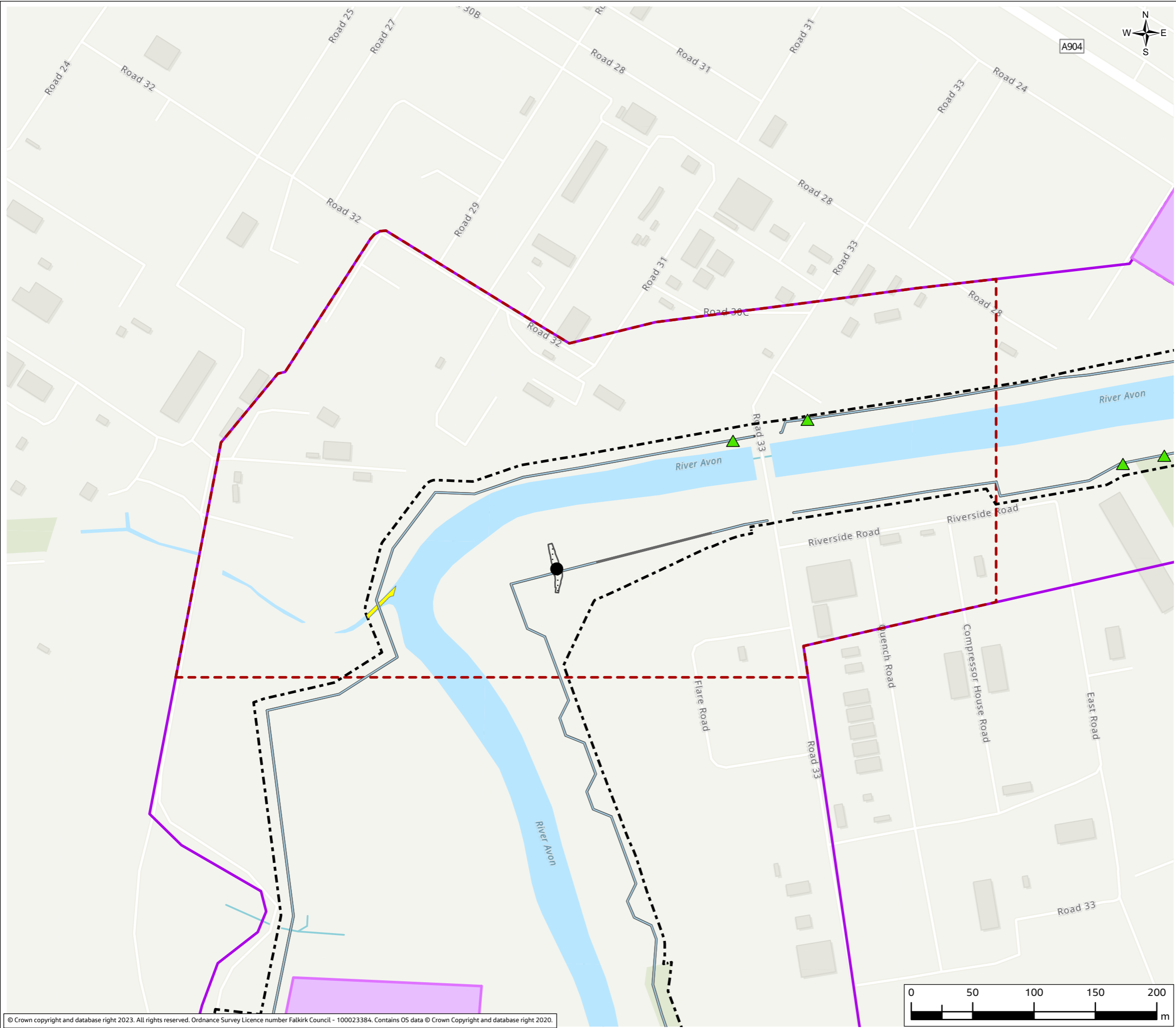
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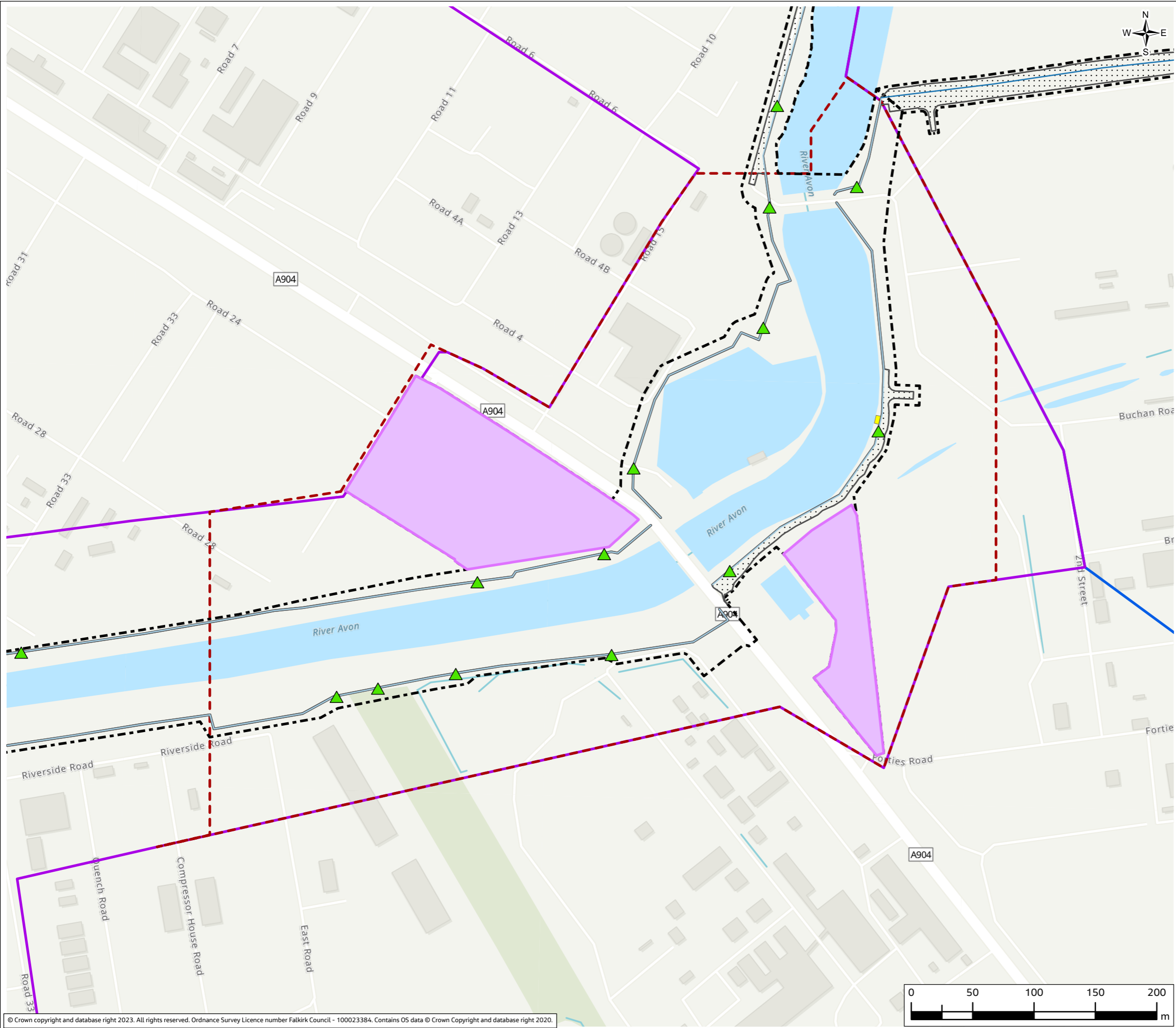
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**FIGURE A4.23**





- 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**  
 Grangemouth  
 Flood Protection Scheme

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

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

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

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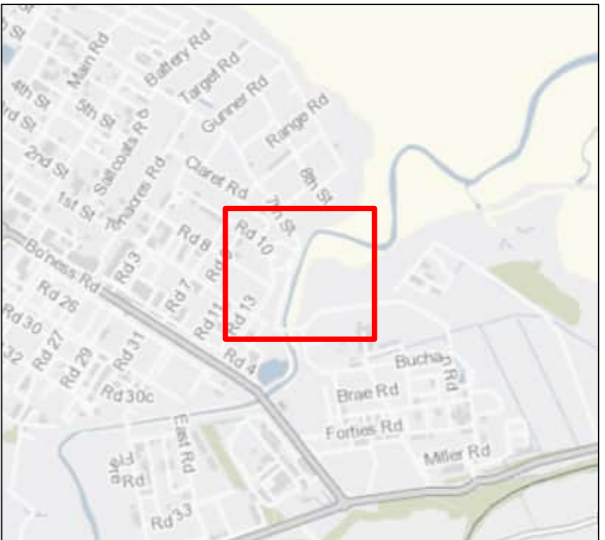
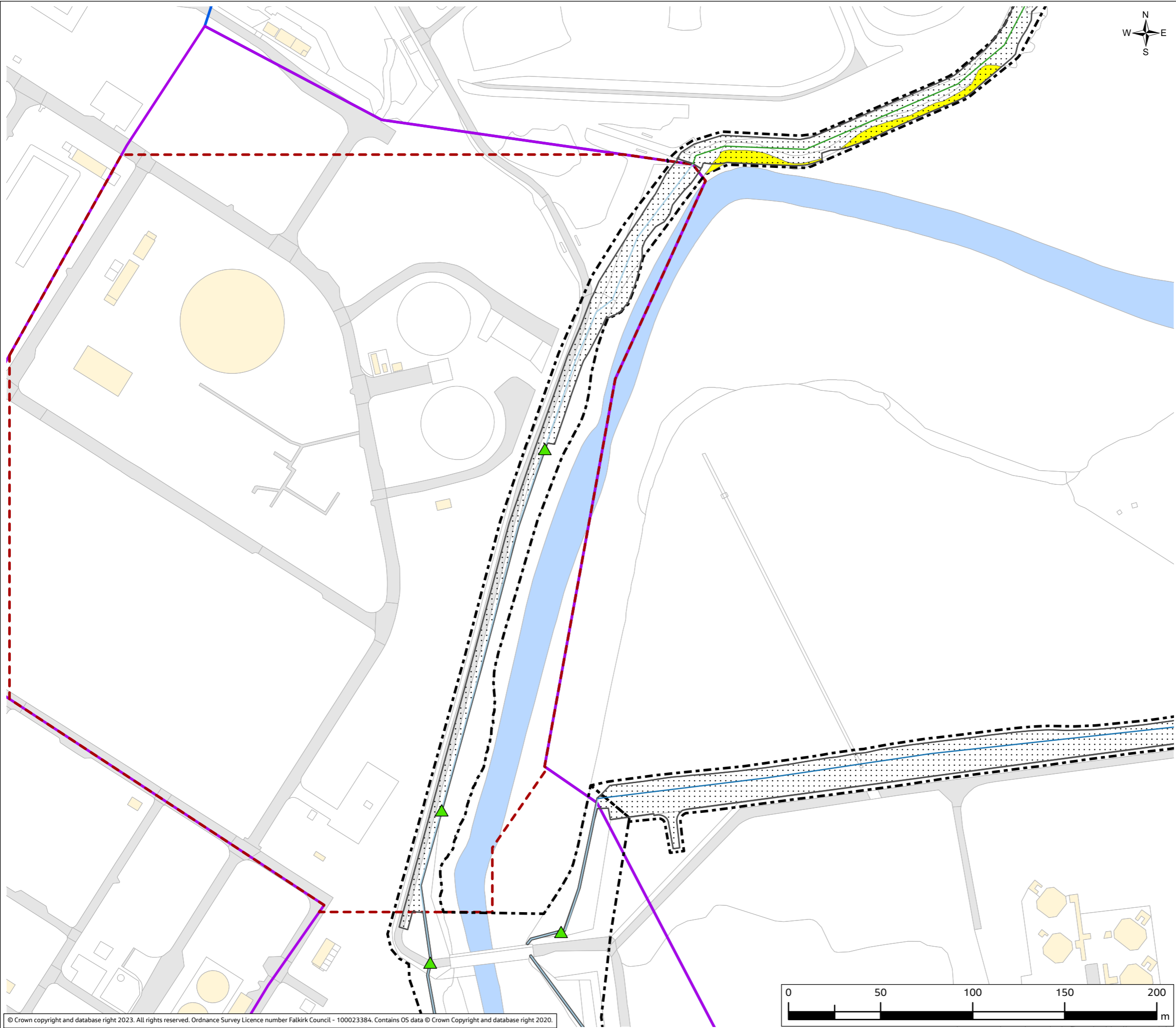
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**FIGURE A4.24**



- 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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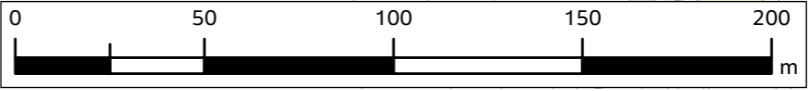
Drawing Title	FLOOD CELL 5 - WORKING AREA 5-4: MOUTH OF RIVER AVON ALIGNMENT AND LAYOUT	SHEET: 4 OF 4
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**FIGURE A4.25**



**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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Drawing Title	FLOOD CELL 6 - WORKING AREA 6-1: BEACH ROAD ALIGNMENT AND LAYOUT
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SHEET: 1 OF 4

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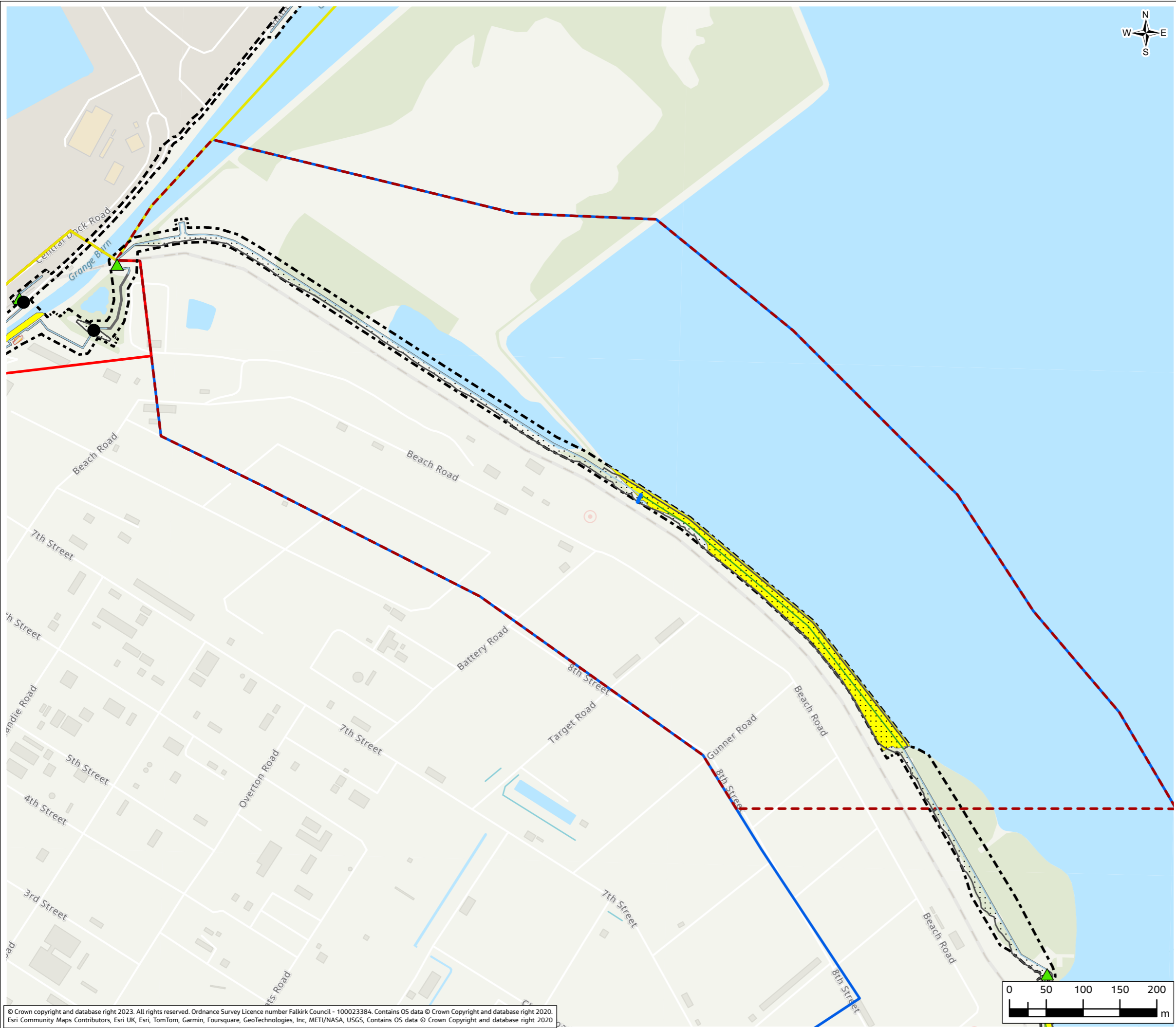
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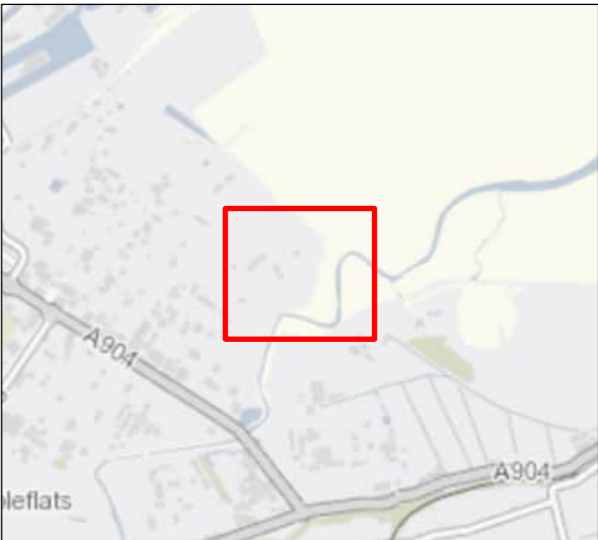
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**FIGURE A4.26**



**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

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Drawing Status

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Scale @ A3

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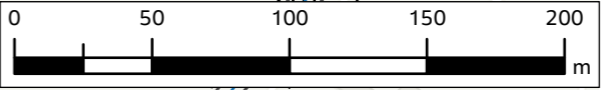
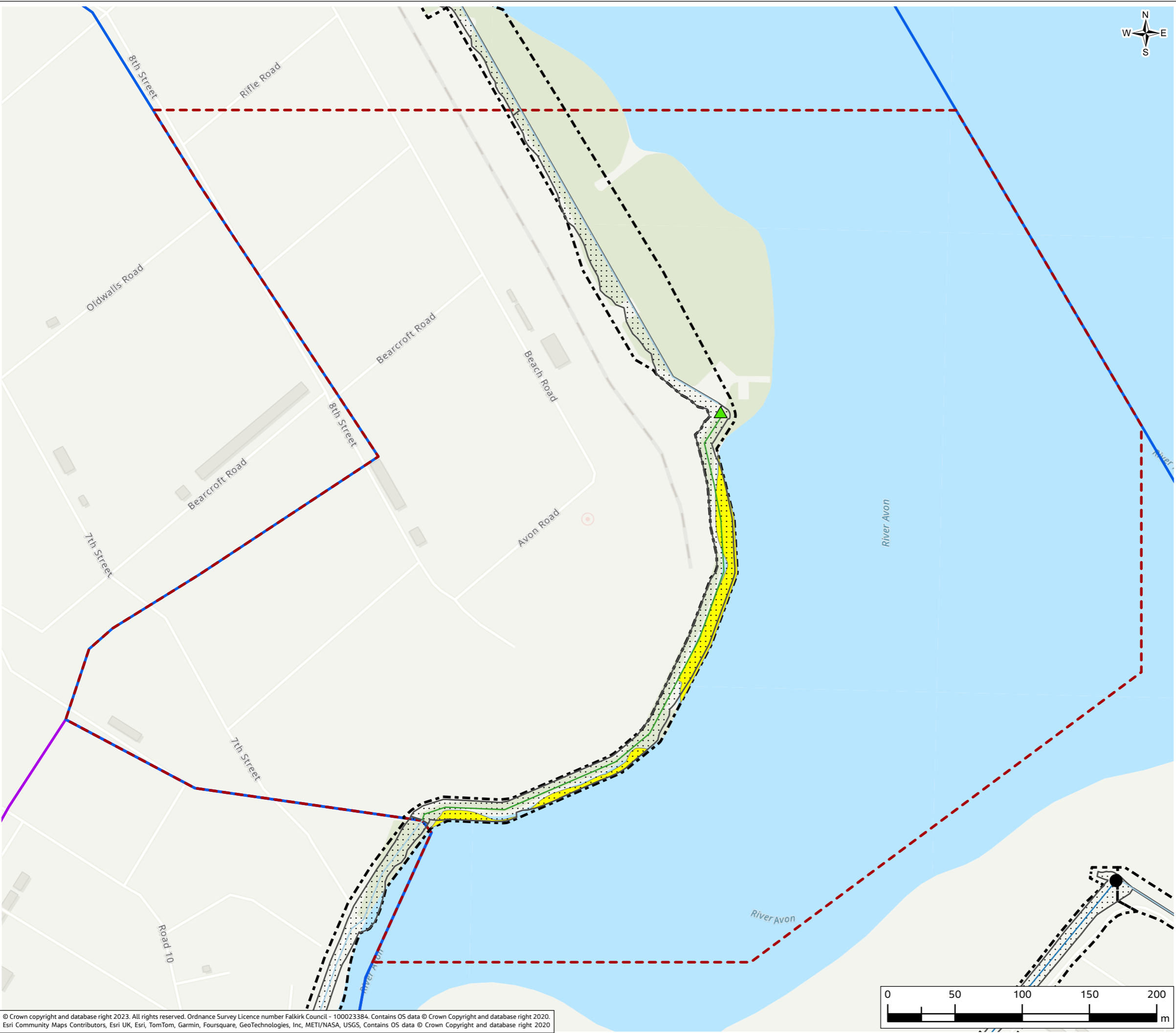
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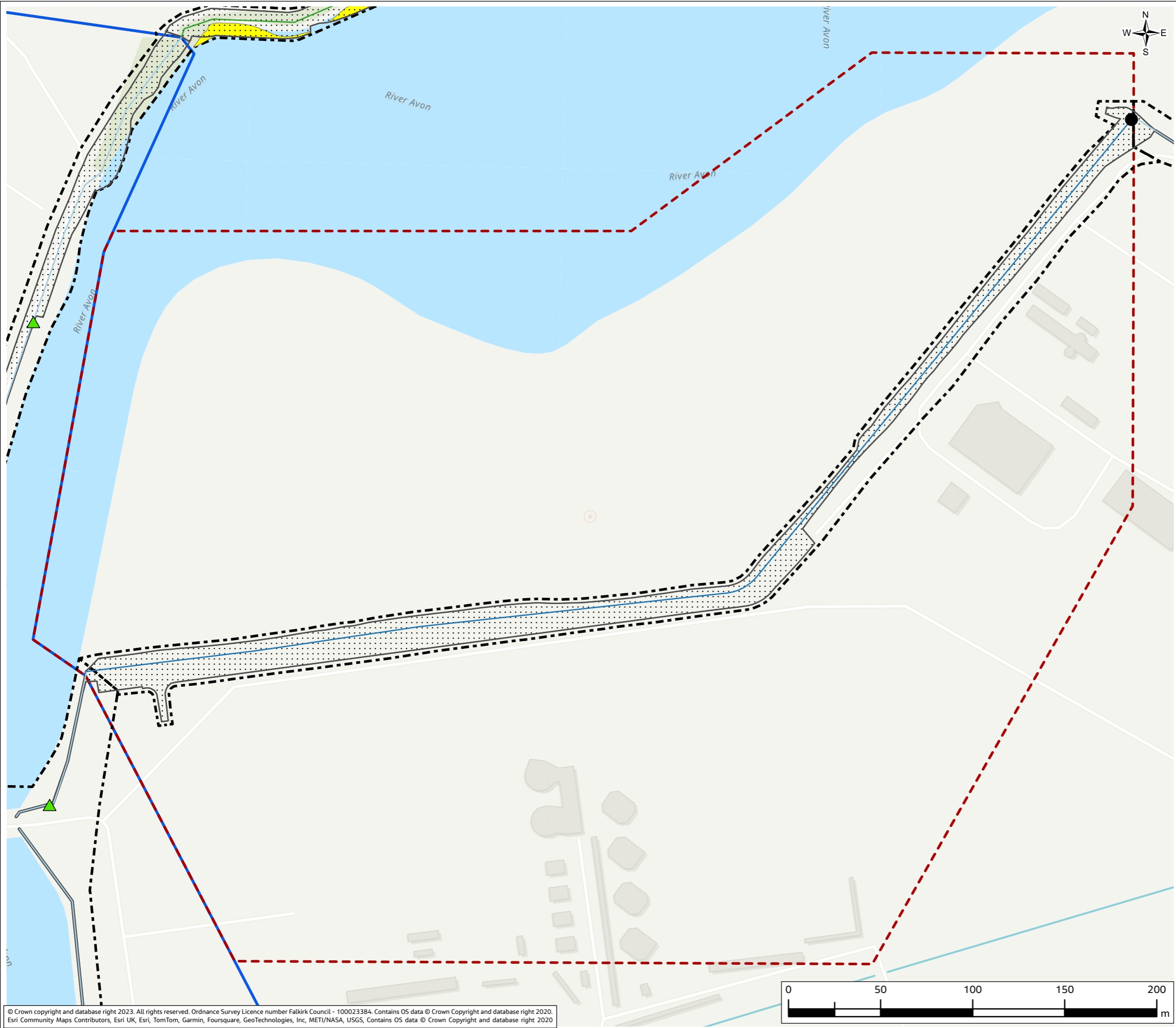
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Figure A4.26

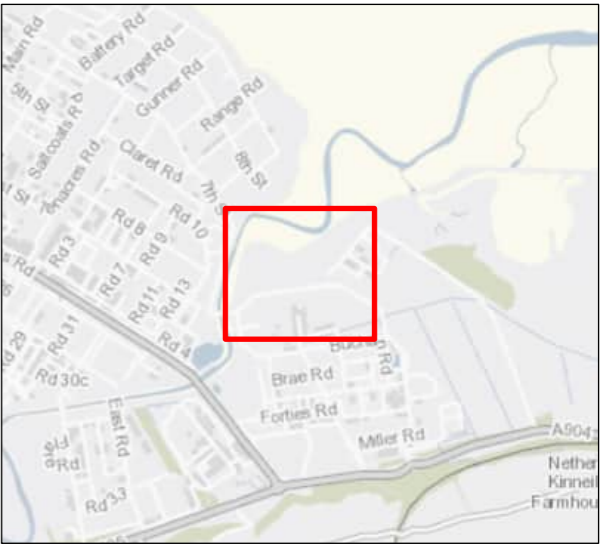
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**FIGURE A4.27**



- 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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 Flood Protection Scheme

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

SHEET: 3 OF 4

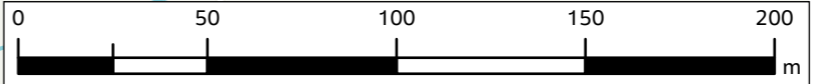
**Drawing Status** S8-SUITABLE FOR STATUTORY CONSENT

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

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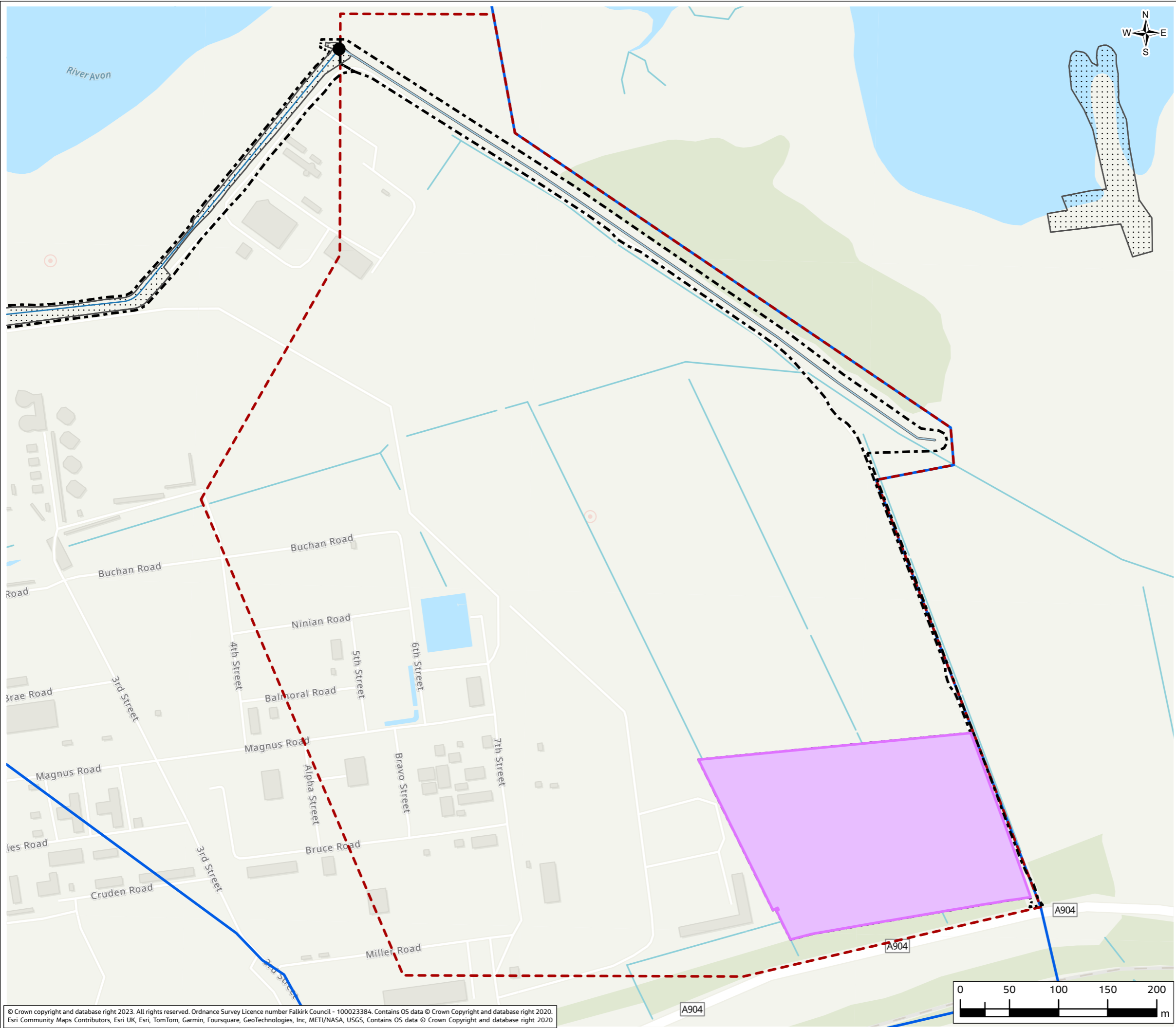
**Drawing No.** Figure A4.27



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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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**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

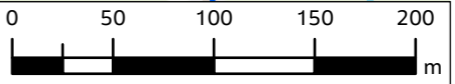
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**Drawing No.** Figure A4.28

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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

Figure A4.38: Working Area 3-4 / East Gate to the Port

Figure A4.39: Working Area 3-5 / Mouth of the Grange Burn

Figure A4.40: Working Area 4-1 / Upstream of M9

Figure A4.41: Working Area 4-2 / Flood Relief Channel – Rannoch Park

Figure A4.42: Working Area 4-3 / Flood Relief Channel – Inchyra Road

Figure A4.43: Working Area 4-4 / Flood Relief Channel – Whole-flats Road

Figure A4.44: Working Area 4-5 / Grange Burn – Zetland Park

Figure A4.45: Working Area 4-6 / Grange Burn – Dalgrain to Bo'Ness Road

Figure A4.46: Working Area 4-7 / Grange Burn – Grangeburn Road

Figure A4.47: Working Area 4-8 / Grange Burn – Petroineos

Figure A4.48: Working Area 4-9 / Grange Burn – Mouth of Grange Burn

Figure A4.49: Working Area 5-1 / Smiddy Brae & Avondale Road

Figure A4.50: Working Area 5-2 / Flare Road & Road 33

Figure A4.51: Working Area 5-3 / Grangemouth Road

Figure A4.52: Working Area 5-4 / Mouth of the River Avon

Figure A4.53: Working Area 6-1 / Beach Road

Figure A4.54: Working Area 6-2 / Mouth of River Avon

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

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

---

**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
SHEET:	1 OF 4

Drawing Status	S8-SUITABLE FOR STATUTORY CONSENT
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**FIGURE A4.30**

**Legend**

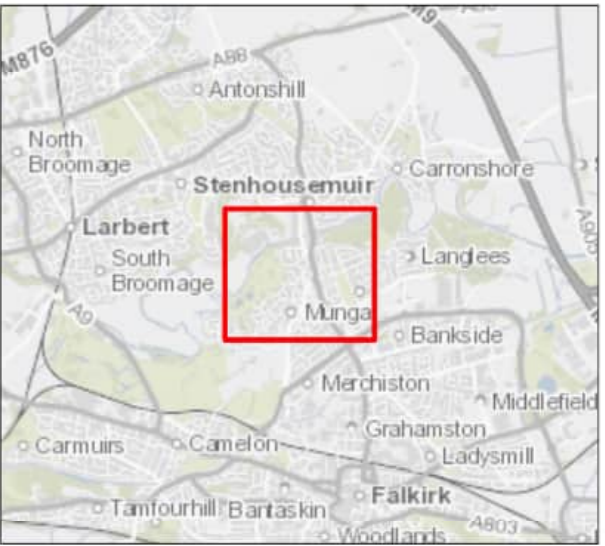
Flood defence heights (m) from existing ground level

**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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FLOOD CELL 1 - WORKING AREA 1-2: CARRON BRIDGES  
 FLOOD DEFENCE HEIGHTS

SHEET: 2 OF 4

**Drawing Status**

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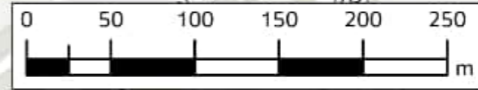
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**FIGURE A4.31**

**Legend**

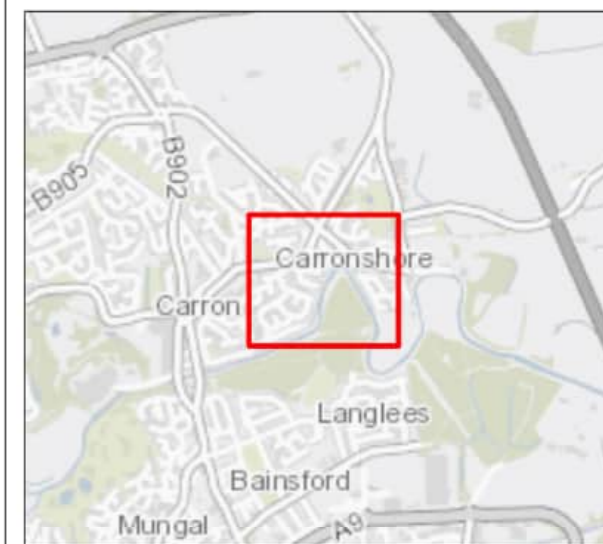
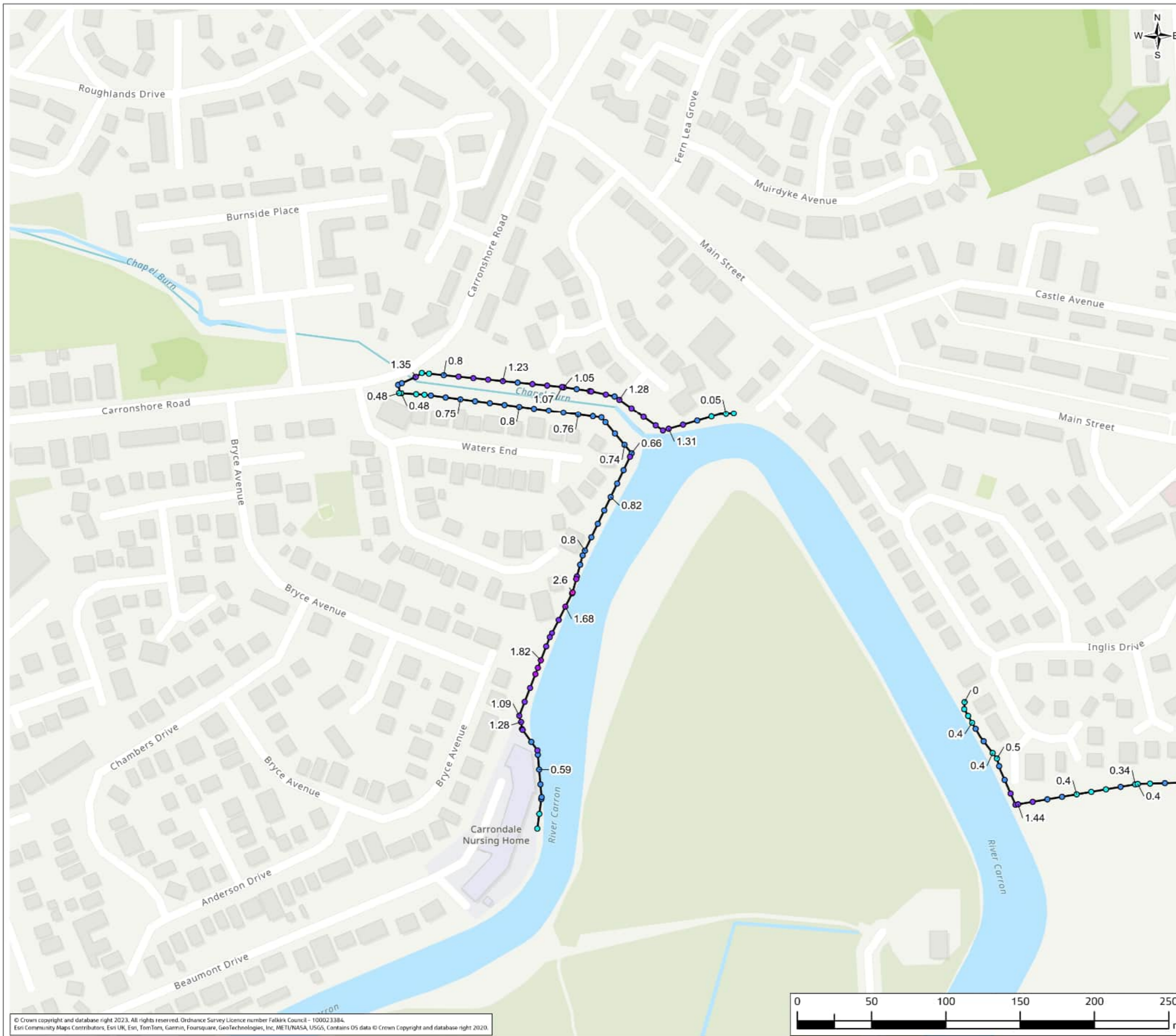
Flood defence heights (m) from existing ground level

*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
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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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SHEET:	4 OF 4

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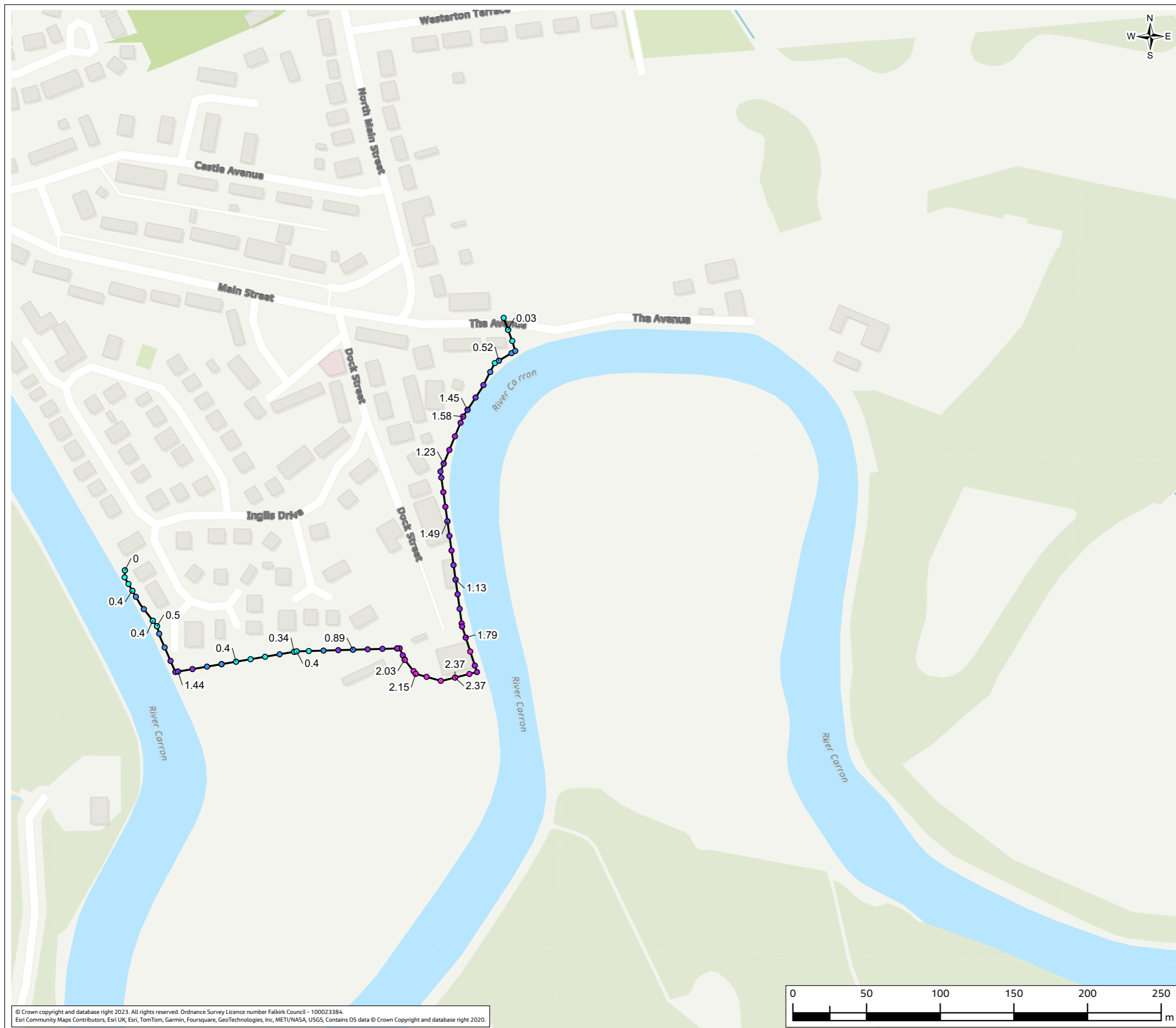
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**FIGURE A4.33**

**Legend**

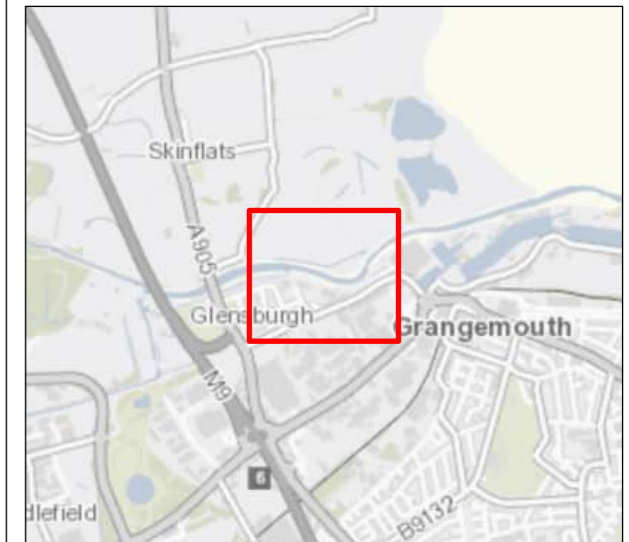
Flood defence heights (m) from existing ground level

*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: FORTH & CLYDE CANAL LOCK FLOOD DEFENCE HEIGHTS
SHEET:	1 OF 2

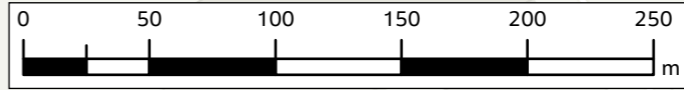
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**FIGURE A4.34**

**Legend**

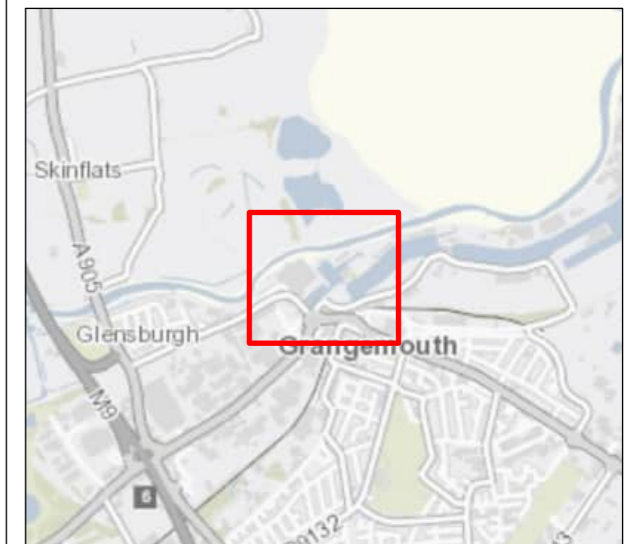
Flood defence heights (m) from existing ground level

*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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**FIGURE A4.35**



**Legend**

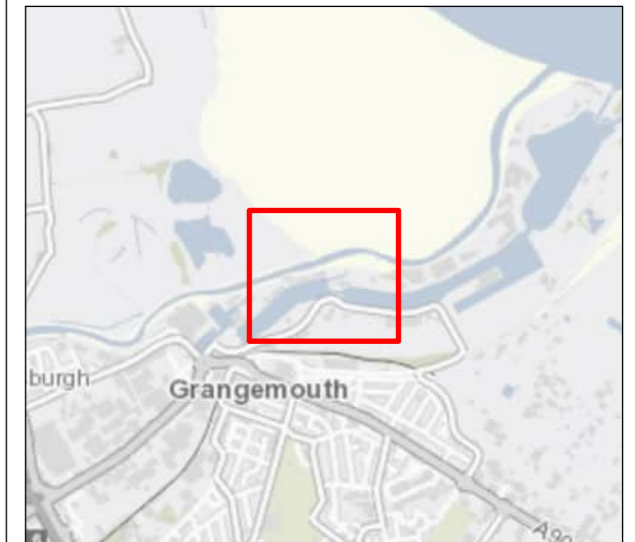
Flood defence heights (m) from existing ground level

*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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	SHEET: 1 OF 5

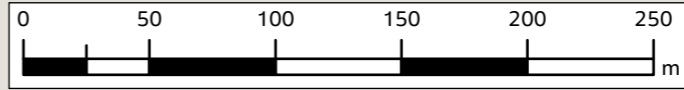
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**FIGURE A4.36**



**Legend**

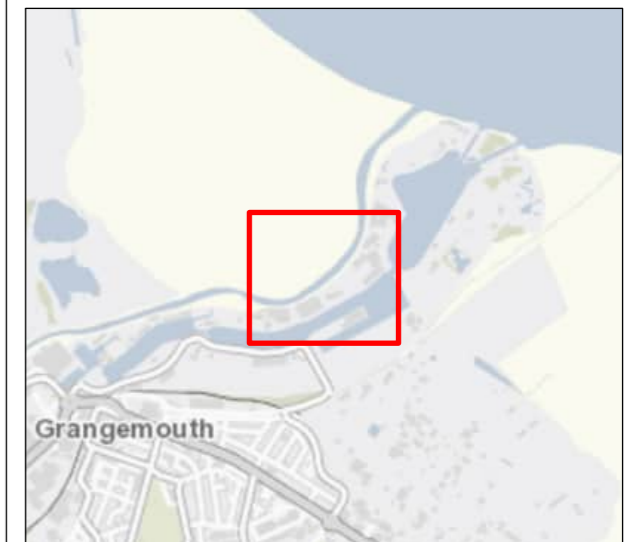
Flood defence heights (m) from existing ground level

*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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grangemouthfps@falkirk.gov.uk



Project

Grangemouth  
Flood Protection Scheme

Drawing Title

FLOOD CELL 3 - WORKING AREA 3-2: WEST COAST OF THE PORT  
FLOOD DEFENCE HEIGHTS

SHEET: 2 OF 5

Drawing Status

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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

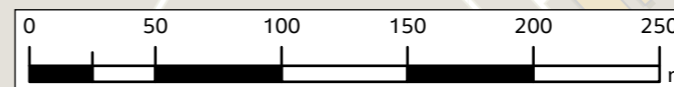
Drawing Status	S8-SUITABLE FOR STATUTORY CONSENT
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Scale @ A3	1:3,000	DO NOT SCALE
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Drawing No.	Figure A4.37
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**FIGURE A4.38**



**Legend**

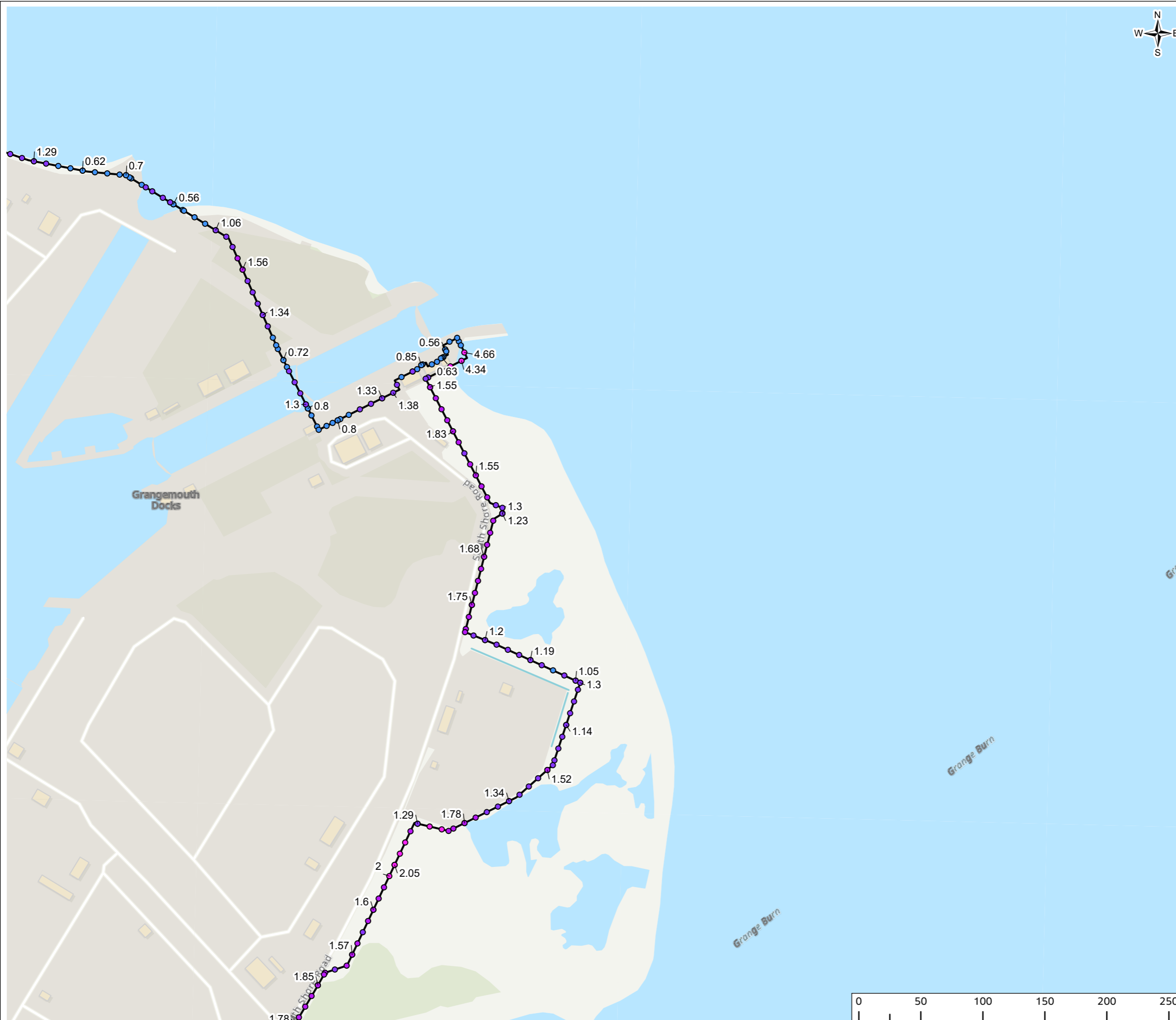
Flood defence heights (m) from existing ground level

*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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Drawing Title	FLOOD CELL 3 - WORKING AREA 3-4: EAST GATE TO PORT FLOOD DEFENCE HEIGHTS
SHEET:	4 OF 5

Drawing Status	S8-SUITABLE FOR STATUTORY CONSENT
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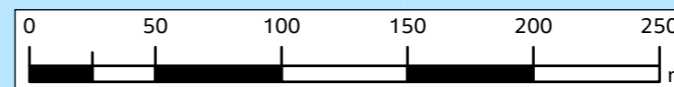
Scale @ A3	1:3,000	DO NOT SCALE
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Jacobs No.	B2386100
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Drawing No.	Figure A4.38
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**FIGURE A4.39**



**Legend**

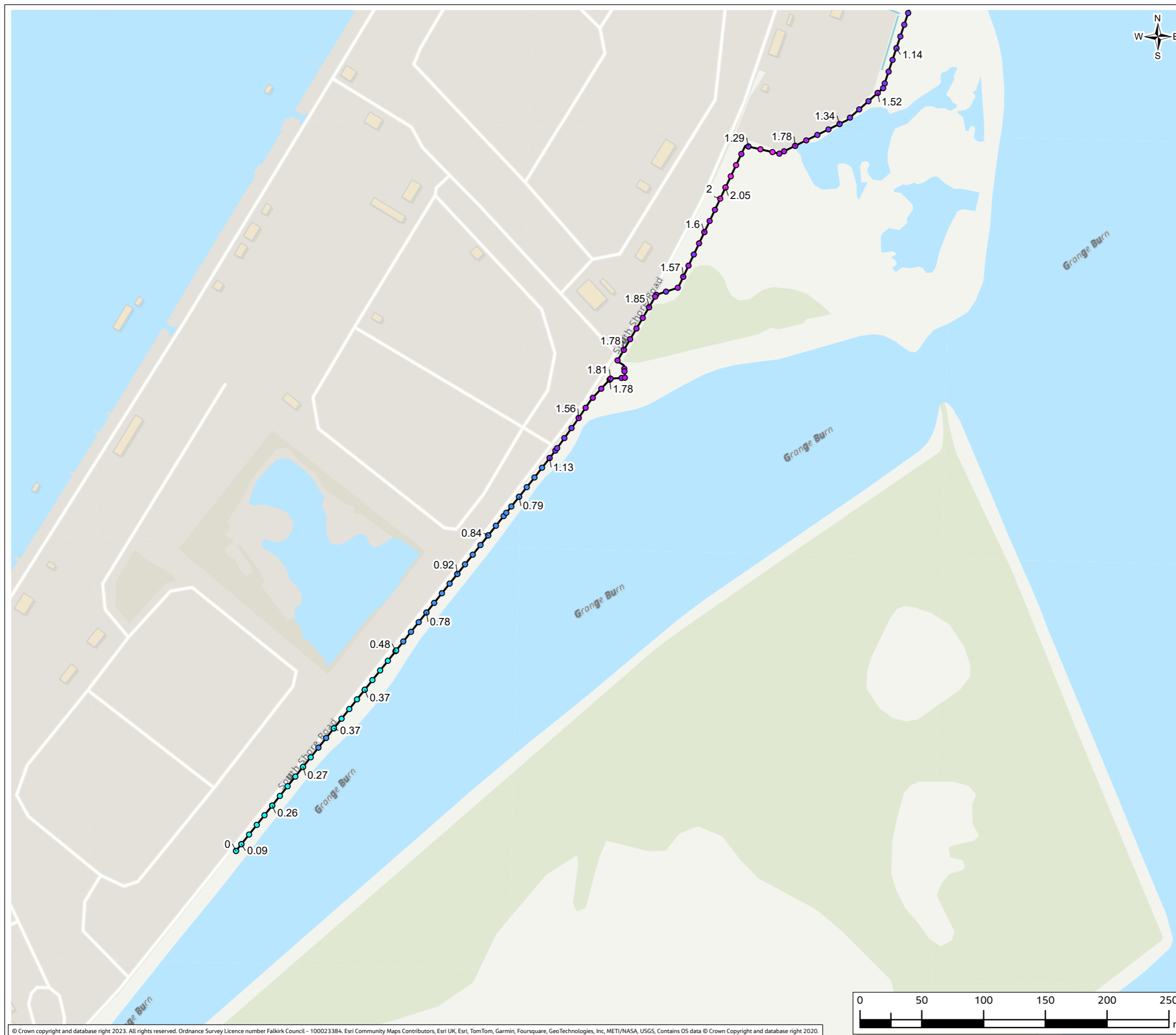
Flood defence heights (m) from existing ground level

*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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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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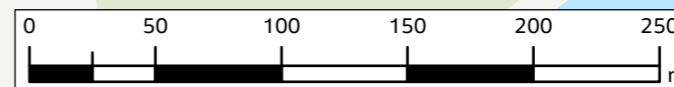
Scale @ A3	1:3,000	DO NOT SCALE
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Drawing No.	Figure A4.39
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**FIGURE A4.40**

**Legend**

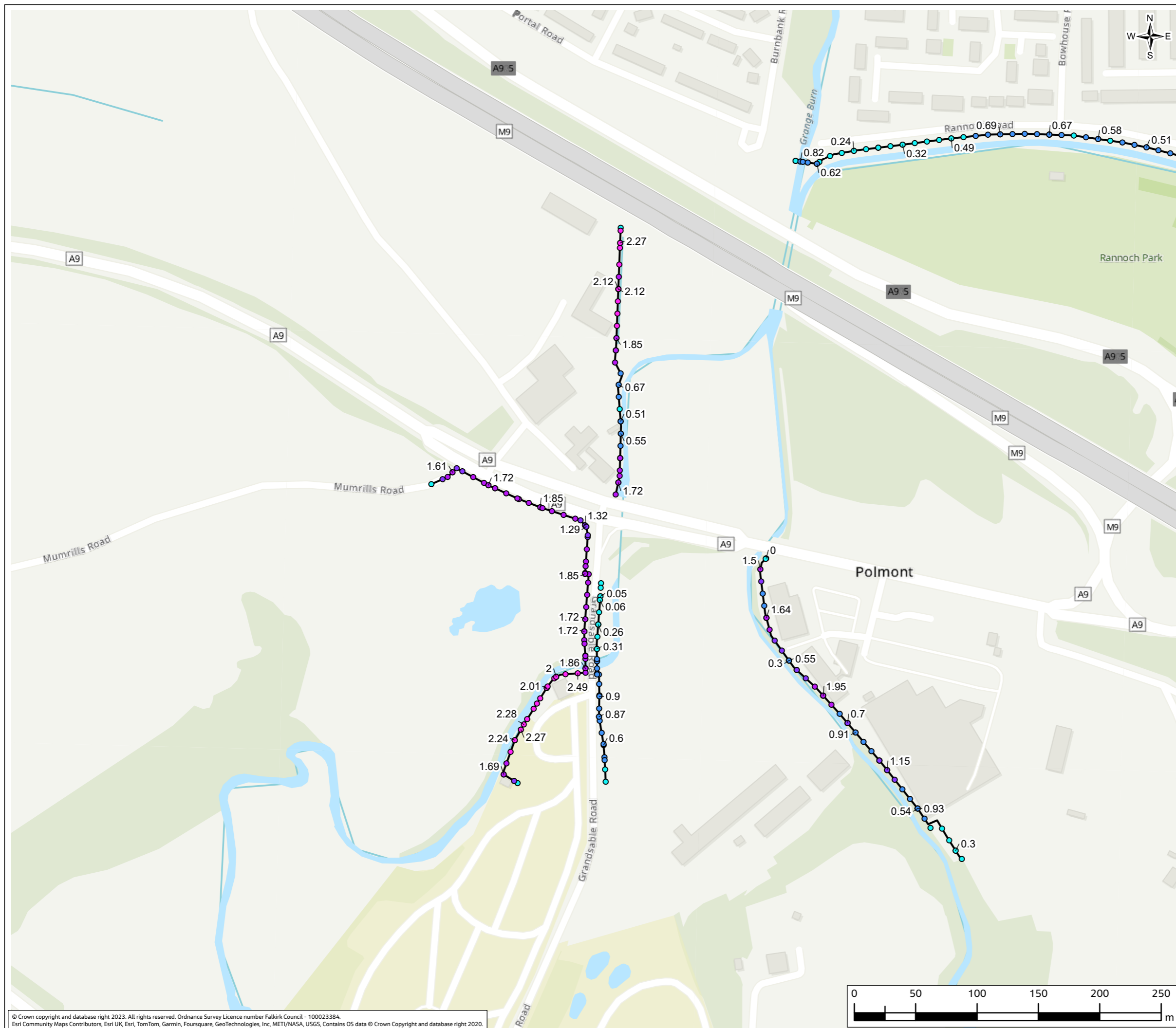
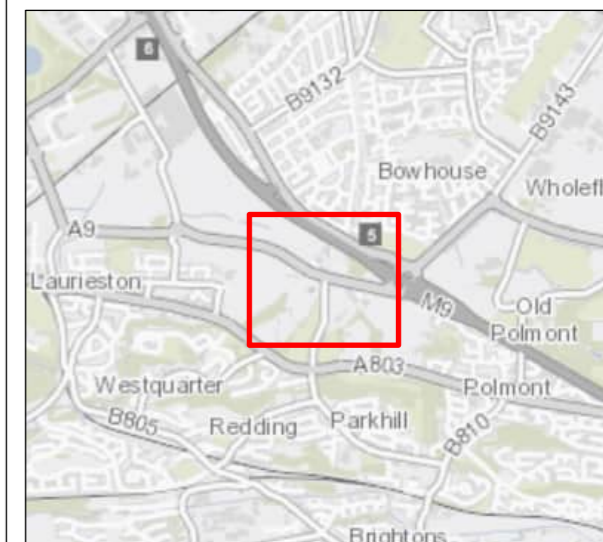
Flood defence heights (m) from existing ground level

*Height*

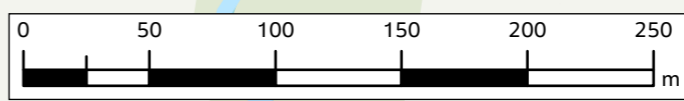
- 0 - 0.5
- 0.51 - 1.0
- 1.01 - 1.5
- 1.51 - 2.0
- >2.0

— Flood defence location

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



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Project	<p>Grangemouth Flood Protection Scheme</p>					
Drawing Title	<p>FLOOD CELL 4 - WORKING AREA 4-1: UPSTREAM OF M9 FLOOD DEFENCE HEIGHTS</p>					
						SHEET: 1 OF 9
Drawing Status	S8-SUITABLE FOR STATUTORY CONSENT					
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Client No.						
Drawing No.	Figure A4.40					



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**FIGURE A4.41**

**Legend**

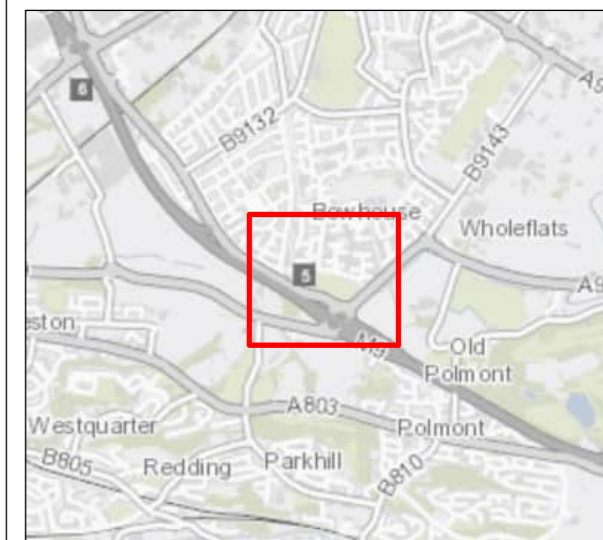
Flood defence heights (m) from existing ground level

*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
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SHEET: 2 OF 9

Drawing Status	S8-SUITABLE FOR STATUTORY CONSENT
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Drawing No.	Figure A4.41
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**FIGURE A4.42**

**Legend**

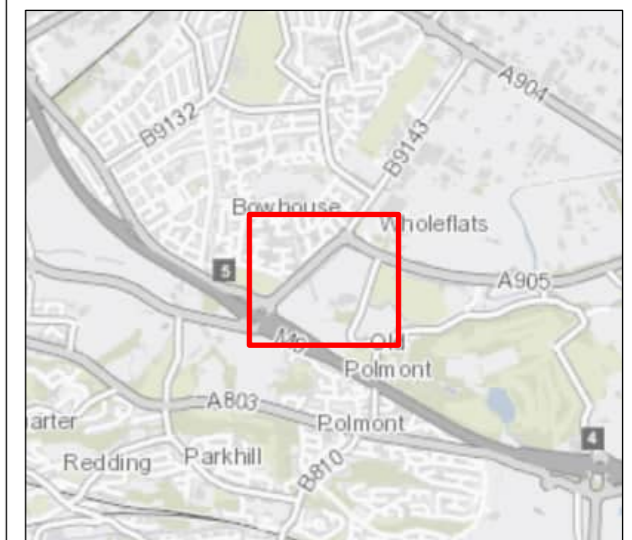
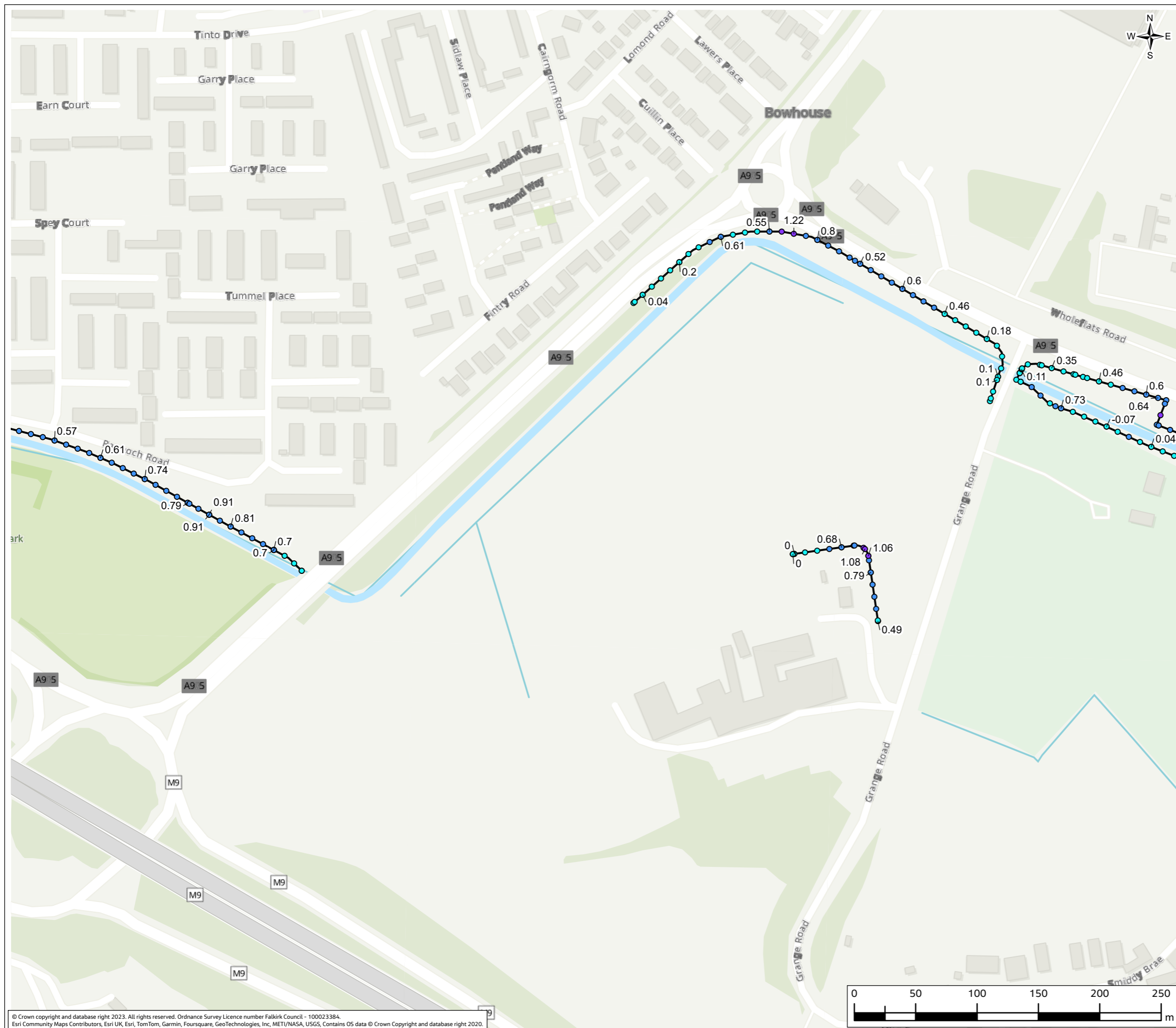
Flood defence heights (m) from existing ground level

*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 - INCHYRA ROAD FLOOD DEFENCE HEIGHTS
SHEET:	3 OF 9

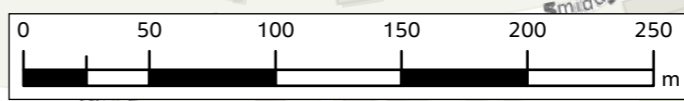
Drawing Status	S8-SUITABLE FOR STATUTORY CONSENT
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Scale @ A3	1:3,000	DO NOT SCALE
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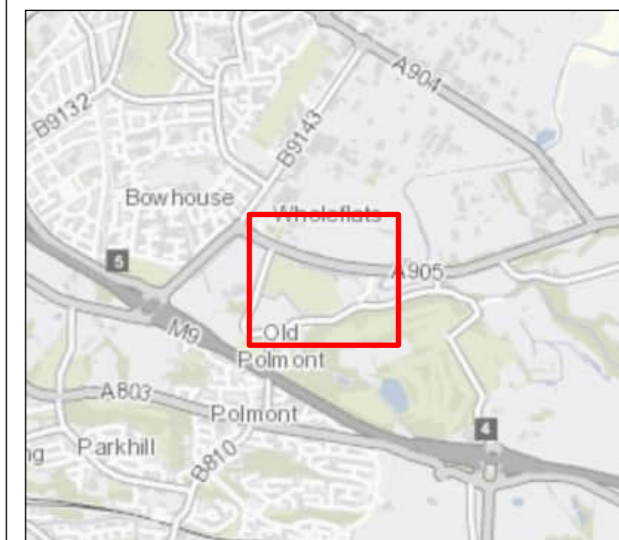
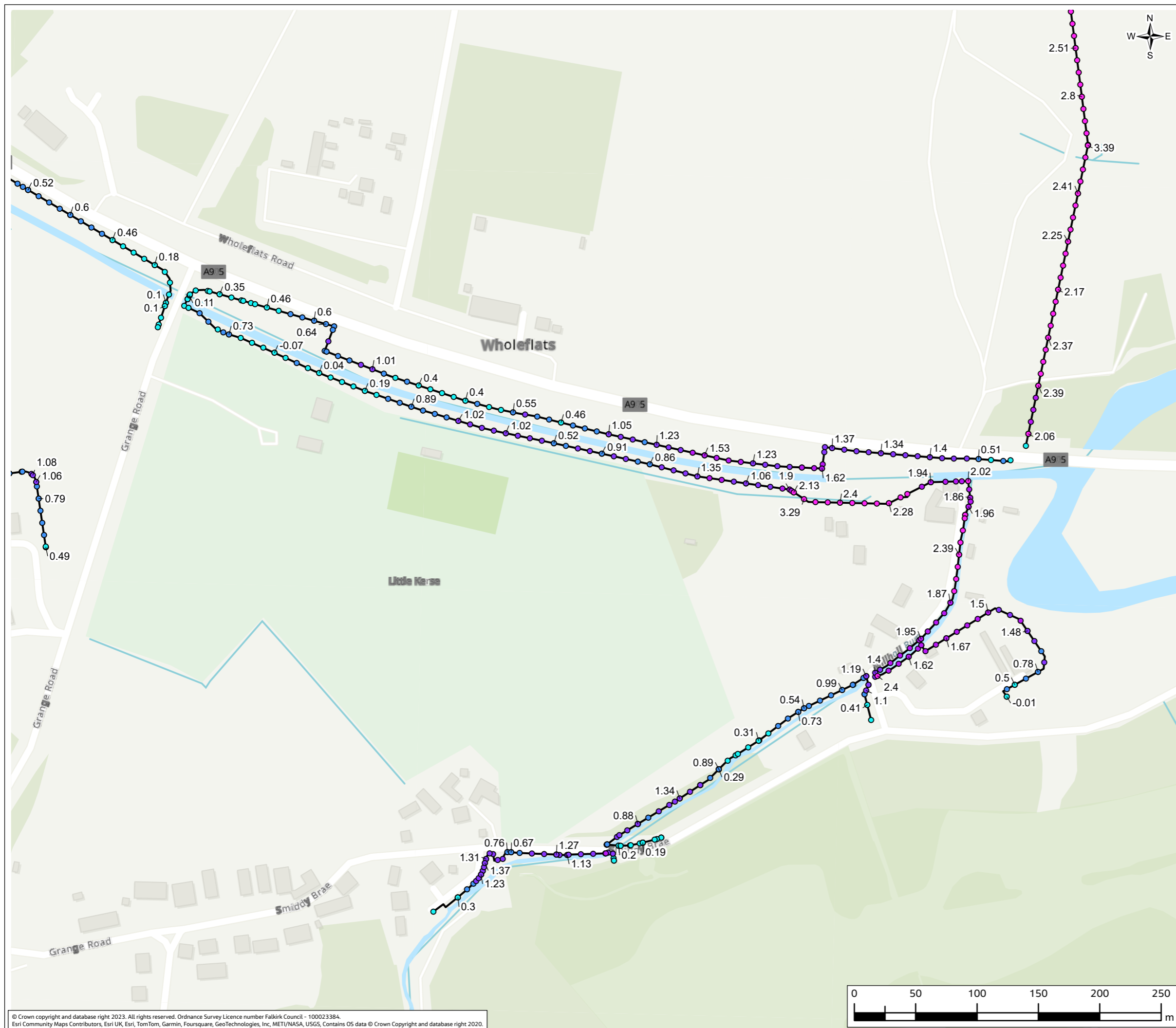
Drawing No.	Figure A4.42
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**FIGURE A4.43**

- 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 - WHOLE-FLATS ROAD  
 FLOOD DEFENCE HEIGHTS**

SHEET: 4 OF 9

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

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

Jacobs No. **B2386100**

Drawing No. **Figure A4.43**

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**FIGURE A4.44**

**Legend**

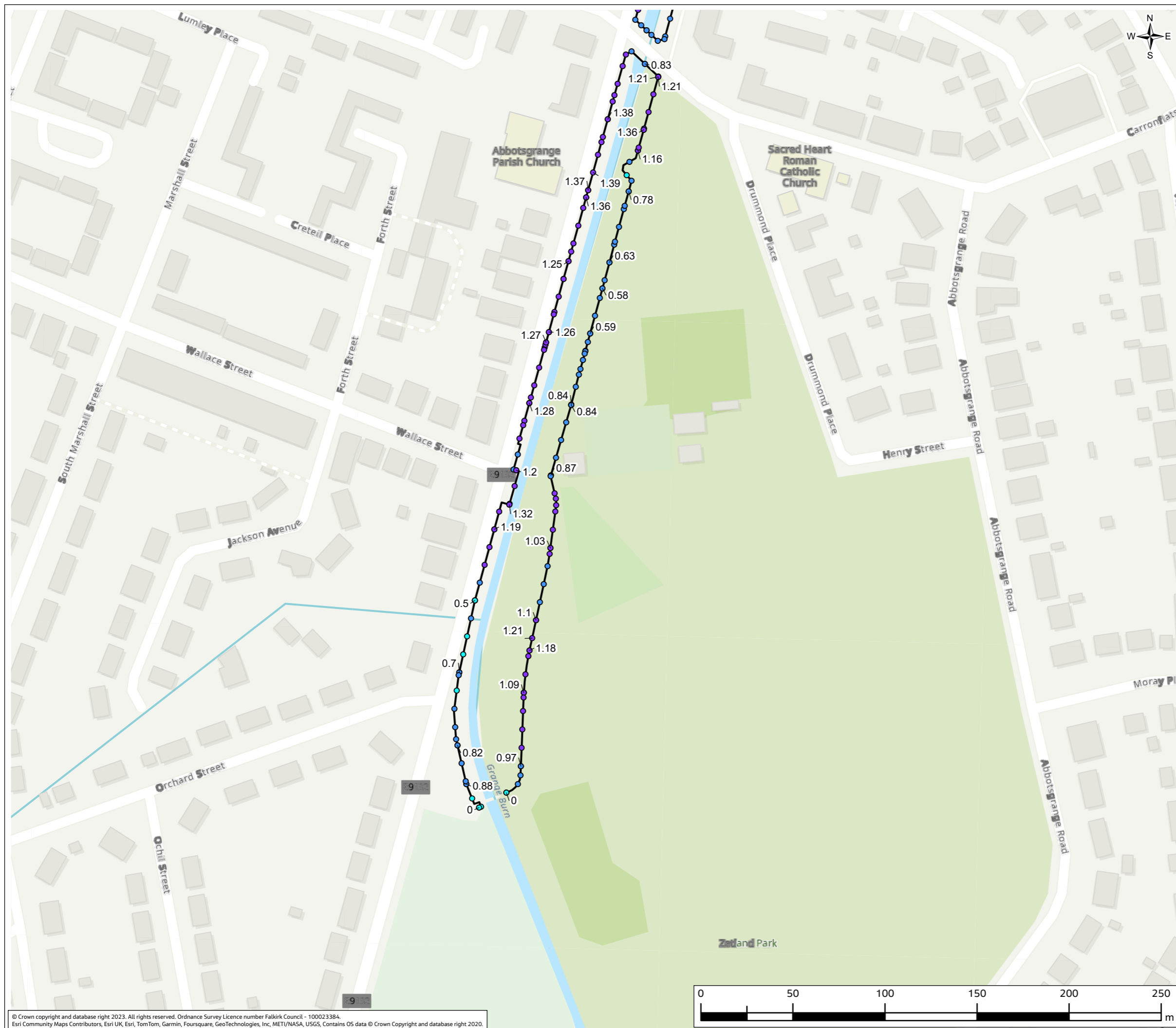
Flood defence heights (m) from existing ground level

*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: GB - ZETLAND PARK  
 FLOOD DEFENCE HEIGHTS**

SHEET: 5 OF 9

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

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

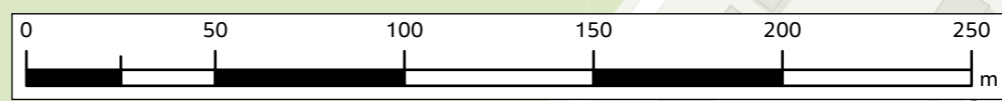
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Client No.

Drawing No. **Figure A4.44**

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**FIGURE A4.45**

**Legend**

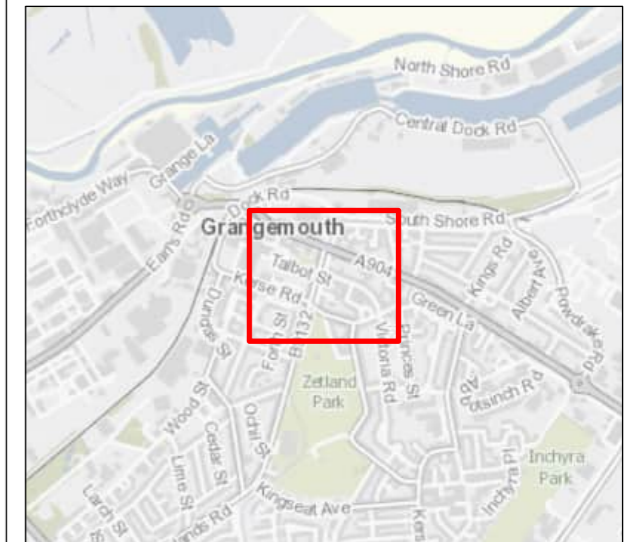
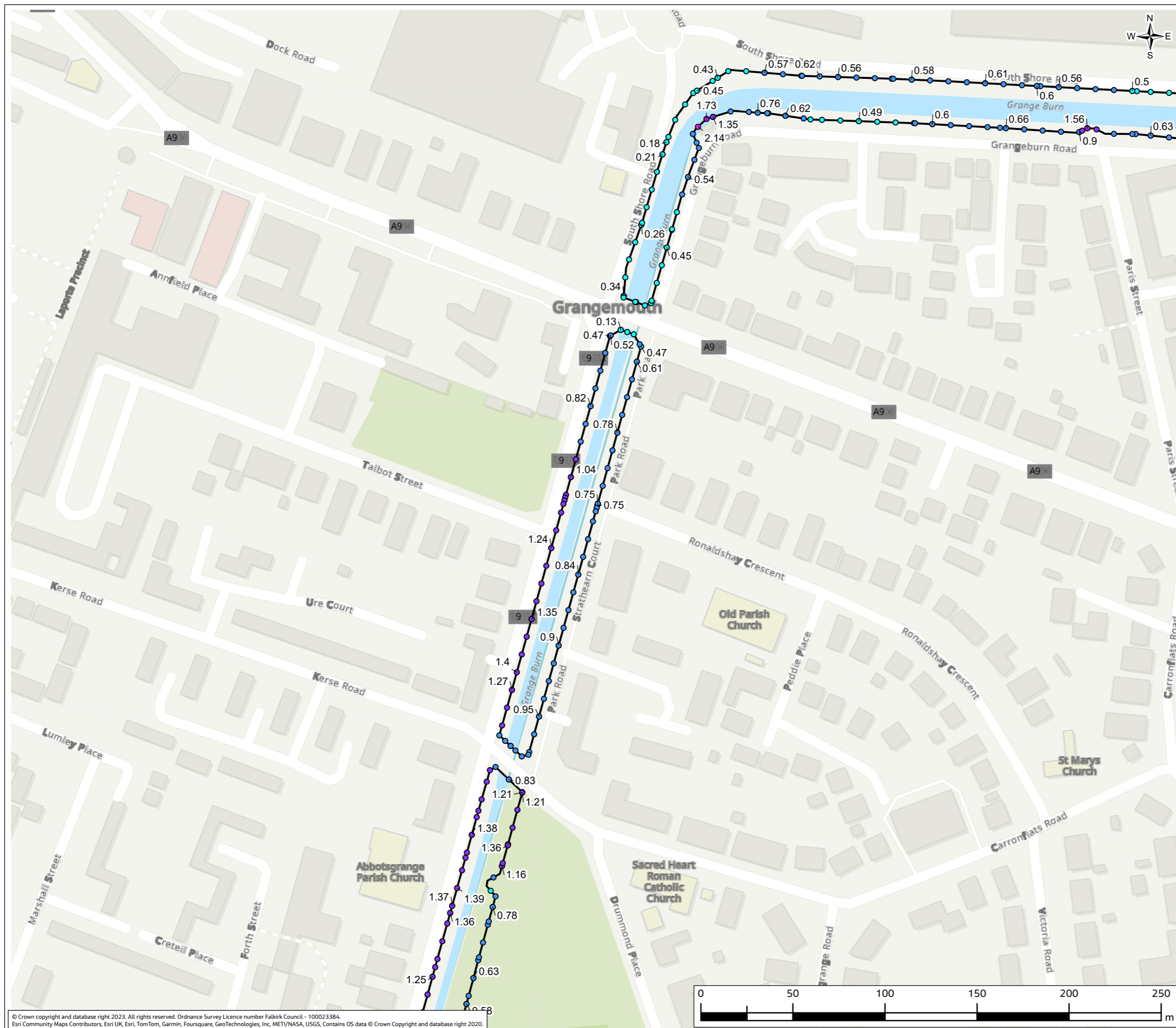
Flood defence heights (m) from existing ground level

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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Drawing Title	FLOOD CELL 4 - WORKING AREA 4-6: GB - DALGRAIN TO BO'NESS ROAD FLOOD DEFENCE HEIGHTS
SHEET:	6 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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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

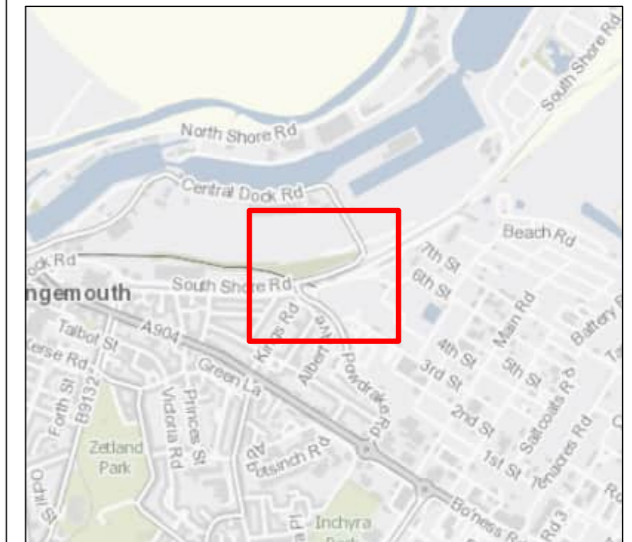
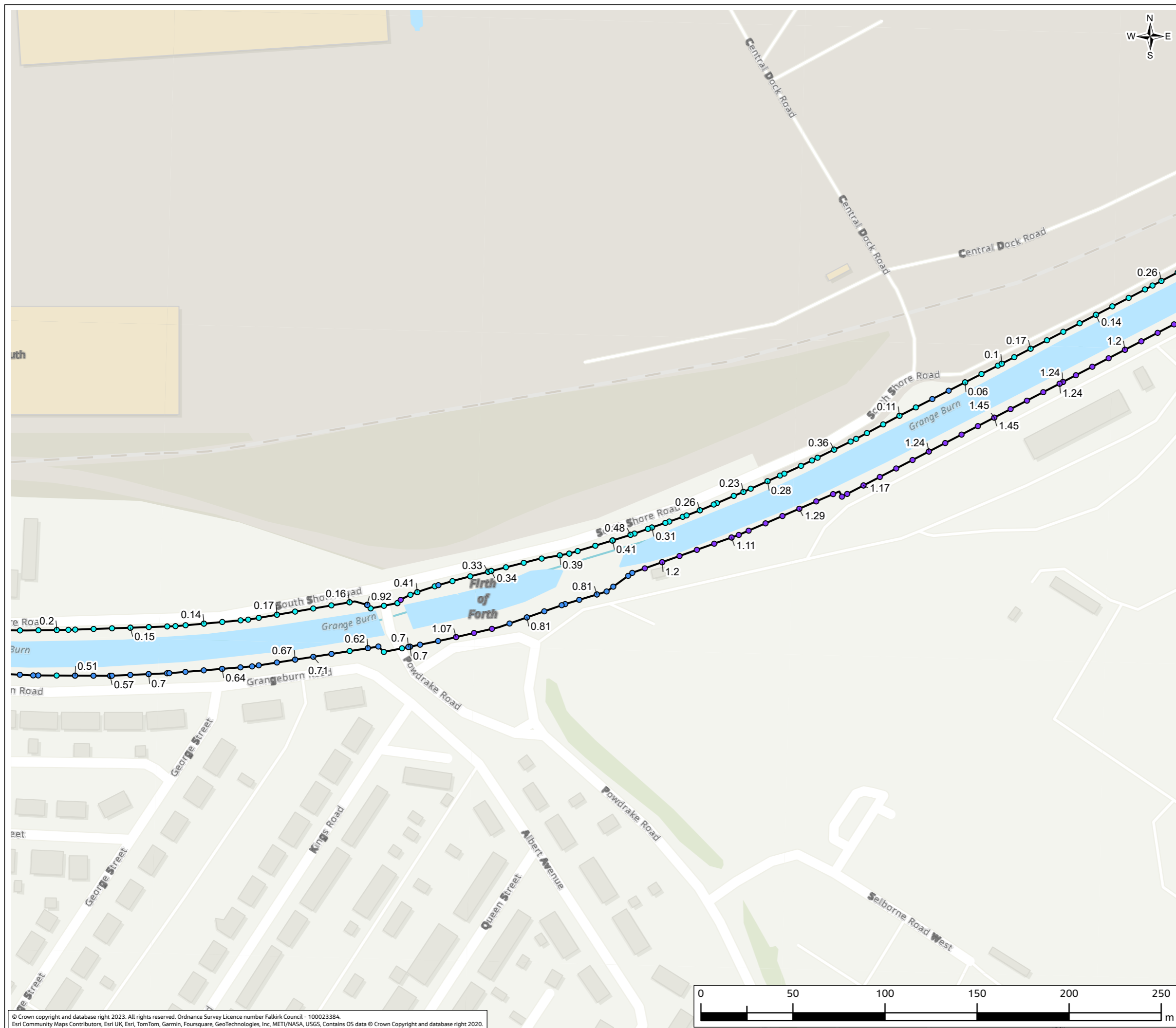


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Project	<p>Grangemouth Flood Protection Scheme</p>					
Drawing Title	<p>FLOOD CELL 4 - WORKING AREA 4-7: GB - GRANGEBURN ROAD FLOOD DEFENCE HEIGHTS</p>					<p>SHEET: 7 OF 9</p>
Drawing Status	S8-SUITABLE FOR STATUTORY CONSENT					
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Drawing 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 4-8: GB - 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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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**

Drawing Title: **FLOOD CELL 4 - WORKING AREA 4-9: GB - MOUTH OF GB  
 FLOOD DEFENCE HEIGHTS**

SHEET: 9 OF 9

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

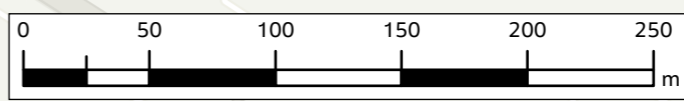
Scale @ A3: **1:3,000** DO NOT SCALE

Jacobs No.: **B2386100**

Drawing No.: **Figure A4.48**

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**FIGURE A4.49**

**Legend**

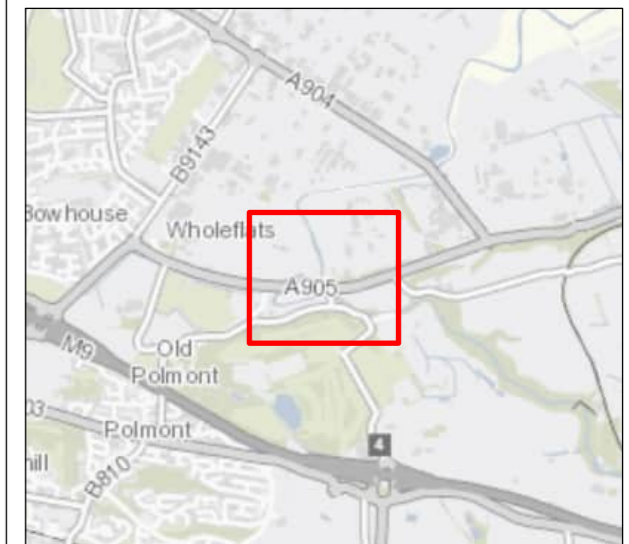
Flood defence heights (m) from existing ground level

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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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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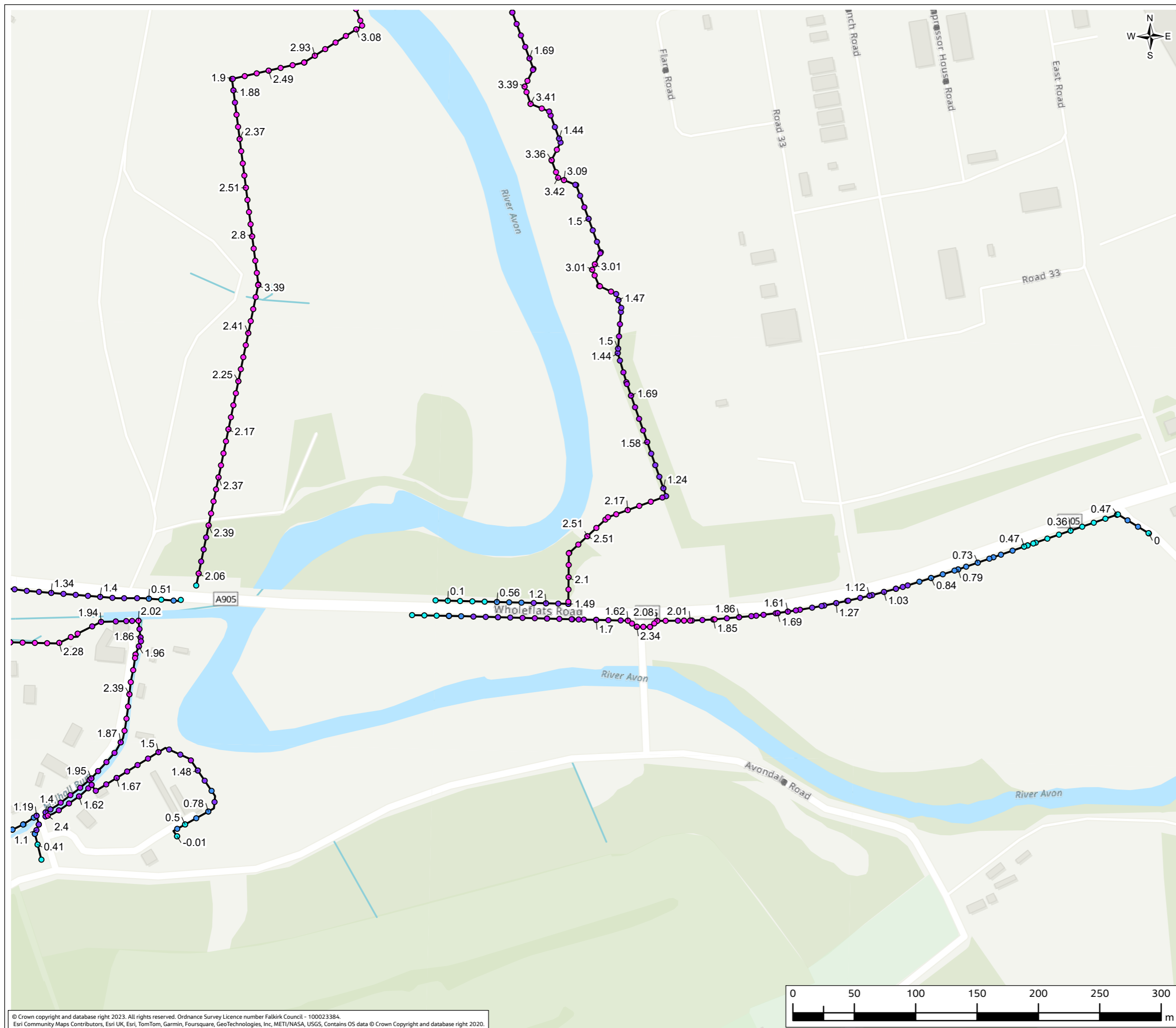
Scale @ A3	1:3,000	DO NOT SCALE
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Drawing No.	Figure A4.49
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**FIGURE A4.50**

**Legend**

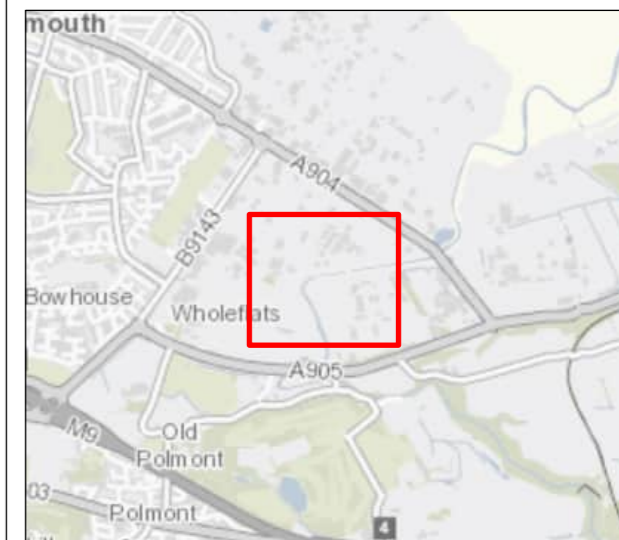
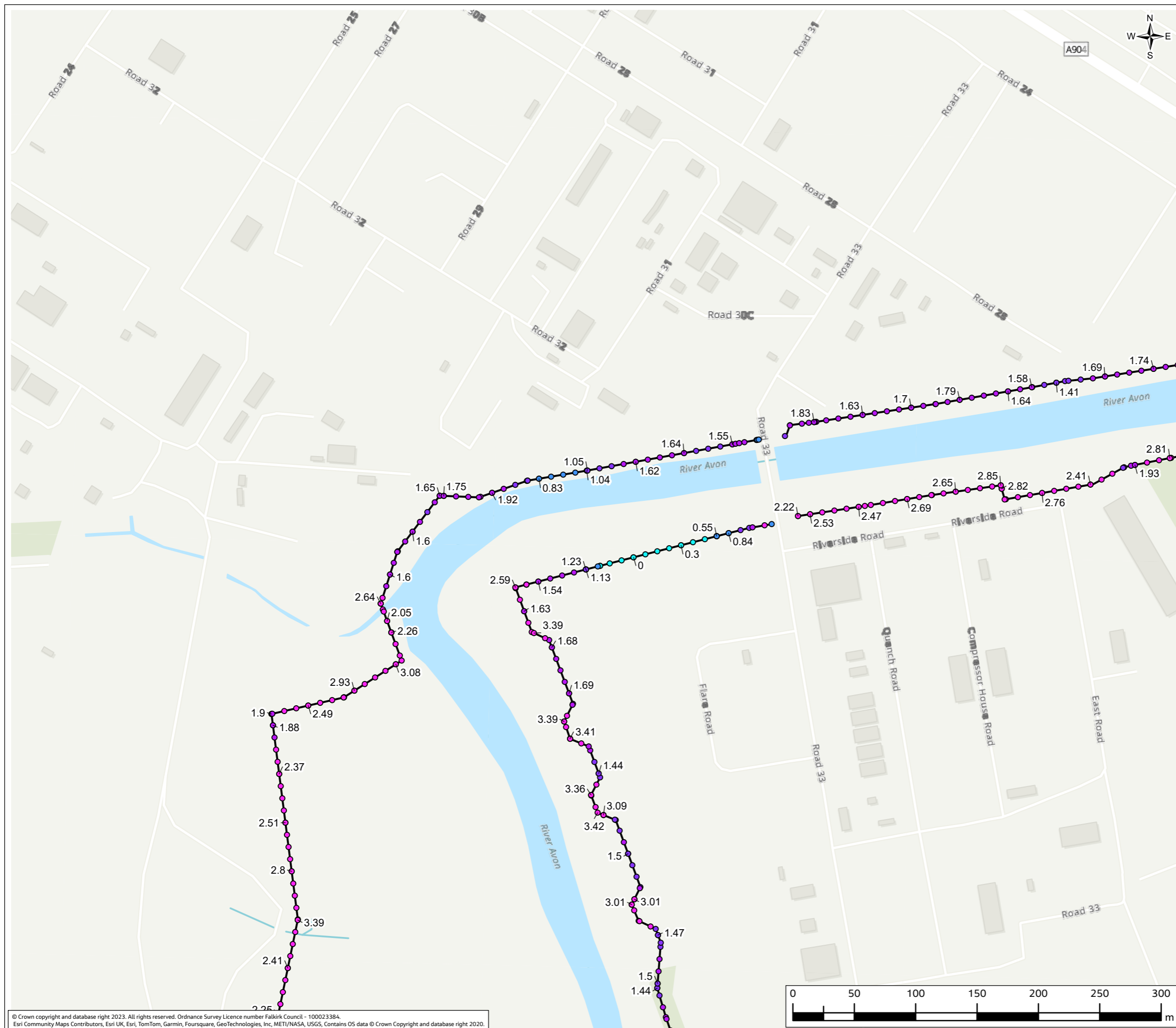
Flood defence heights (m) from existing ground level

*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
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SHEET: 2 OF 4

Drawing Status	S8-SUITABLE FOR STATUTORY CONSENT
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Jacobs No.	B2386100
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Drawing No.	Figure A4.50
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**FIGURE A4.52**

**Legend**

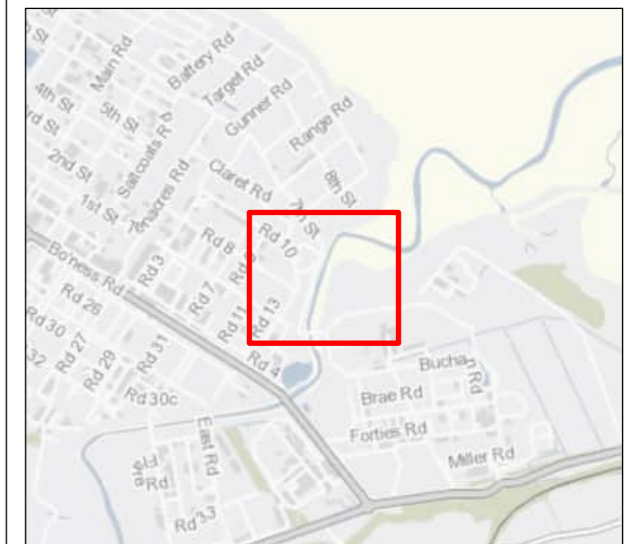
Flood defence heights (m) from existing ground level

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**

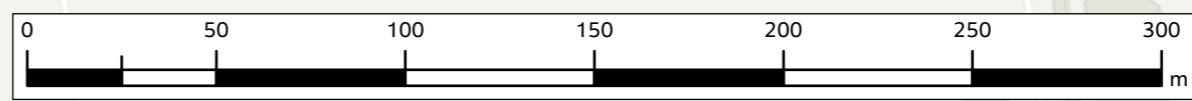
Scale @ A3: 1:2,000 DO NOT SCALE

Jacobs No.: B2386100

Drawing No.: **Figure A4.52**

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**FIGURE A4.53**



**Legend**

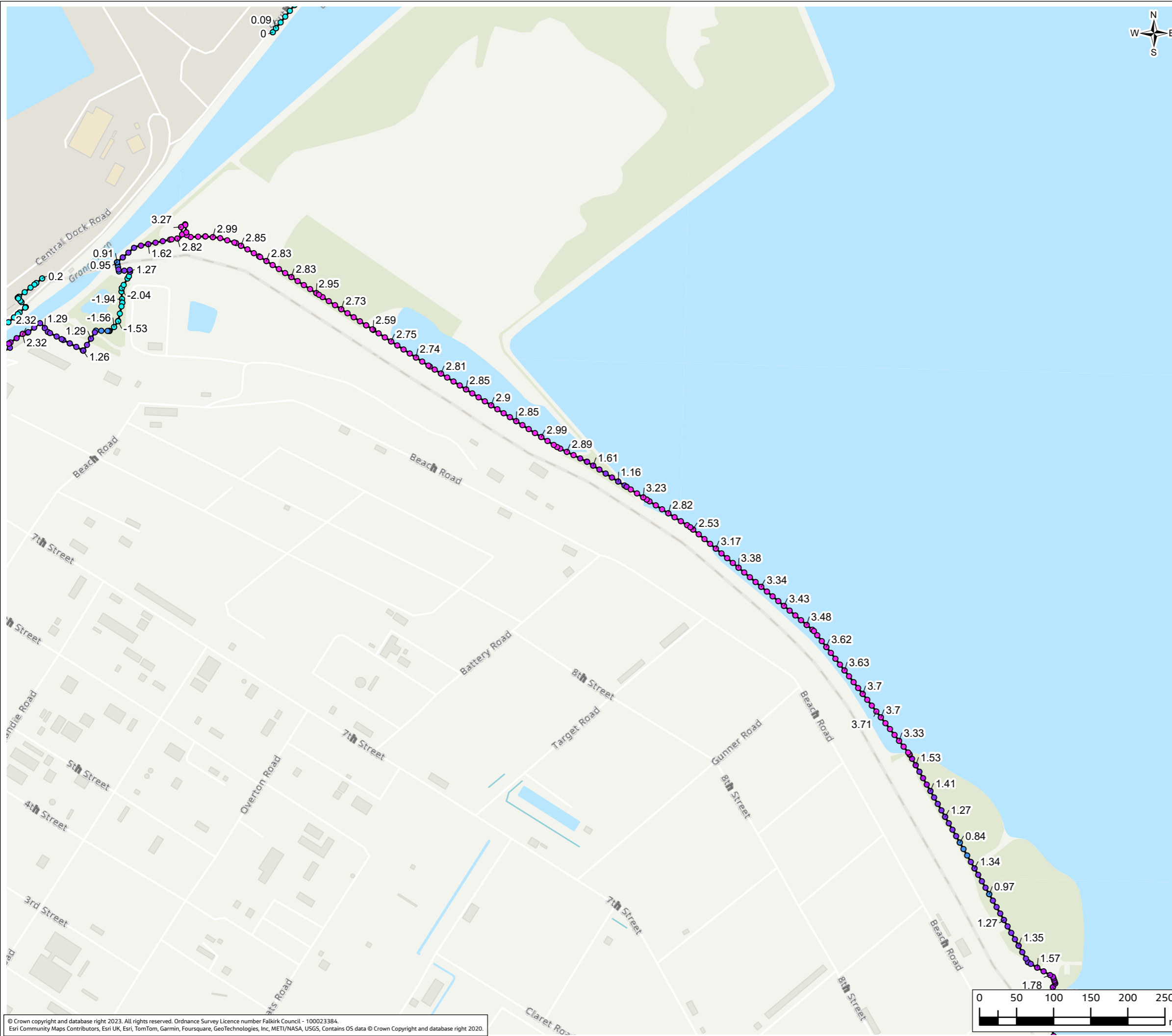
Flood defence heights (m) from existing ground level

*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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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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**FIGURE A4.54**



**Legend**

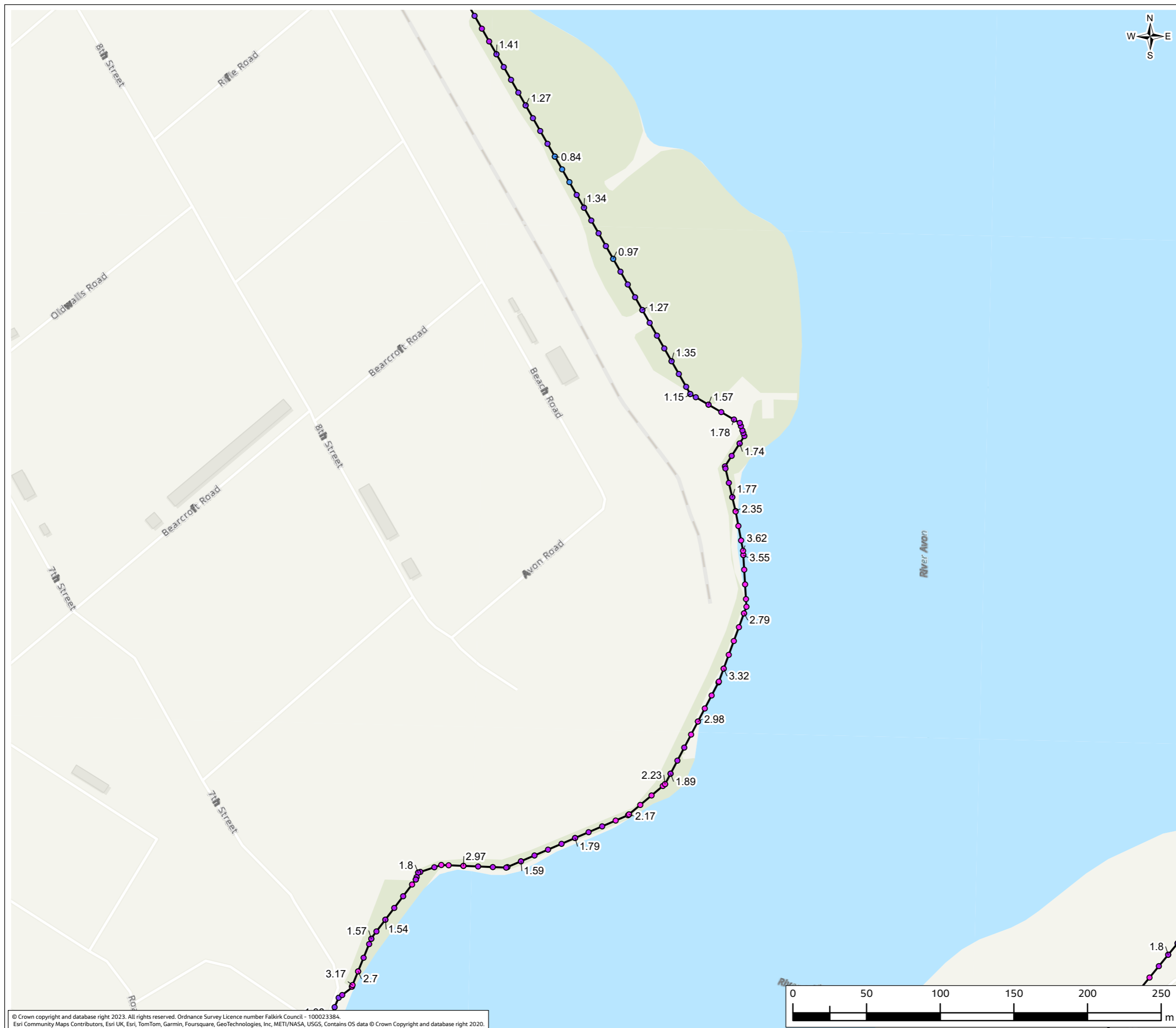
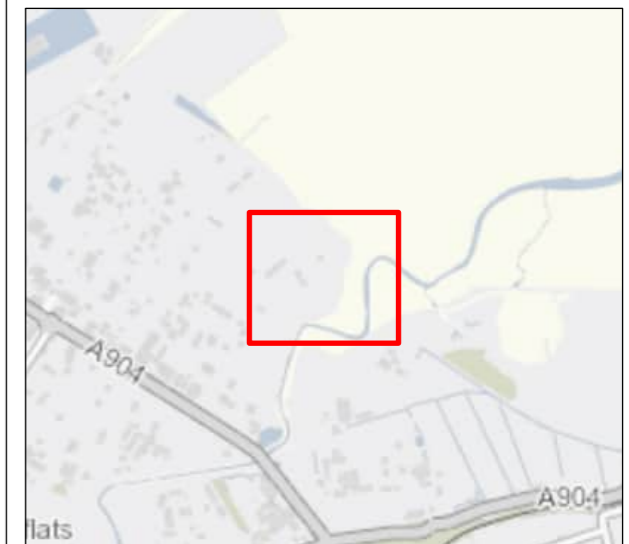
Flood defence heights (m) from existing ground level

*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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Project **Grangemouth  
Flood Protection Scheme**

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**

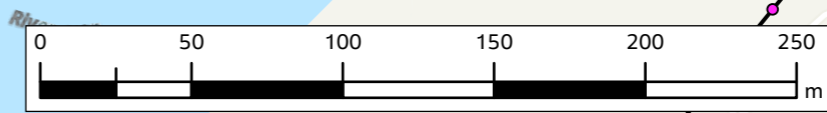
Scale @ A3 **1:2,500** **DO NOT SCALE**

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Drawing No. **Figure A4.54**

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**FIGURE A4.55**

**Legend**

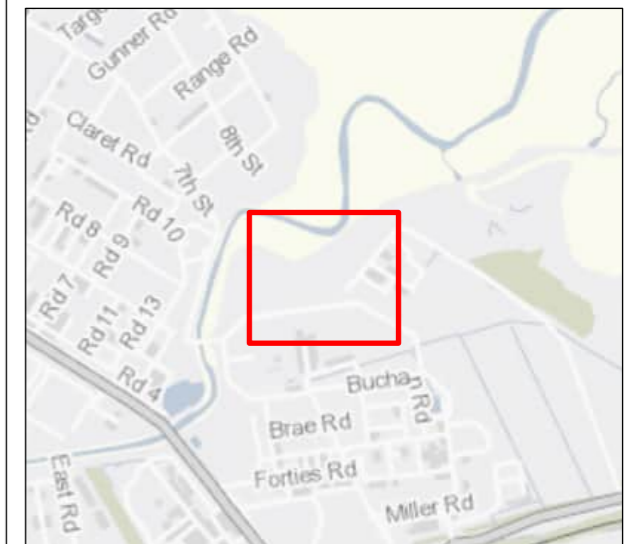
Flood defence heights (m) from existing ground level

*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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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
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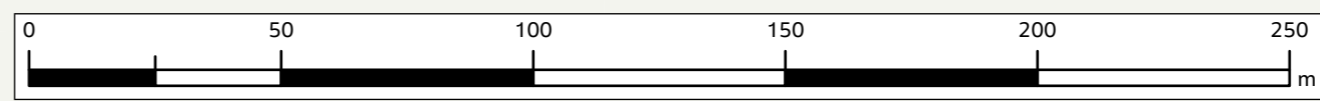
Scale @ A3	1:1,500	DO NOT SCALE
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**FIGURE A4.56**



**Legend**

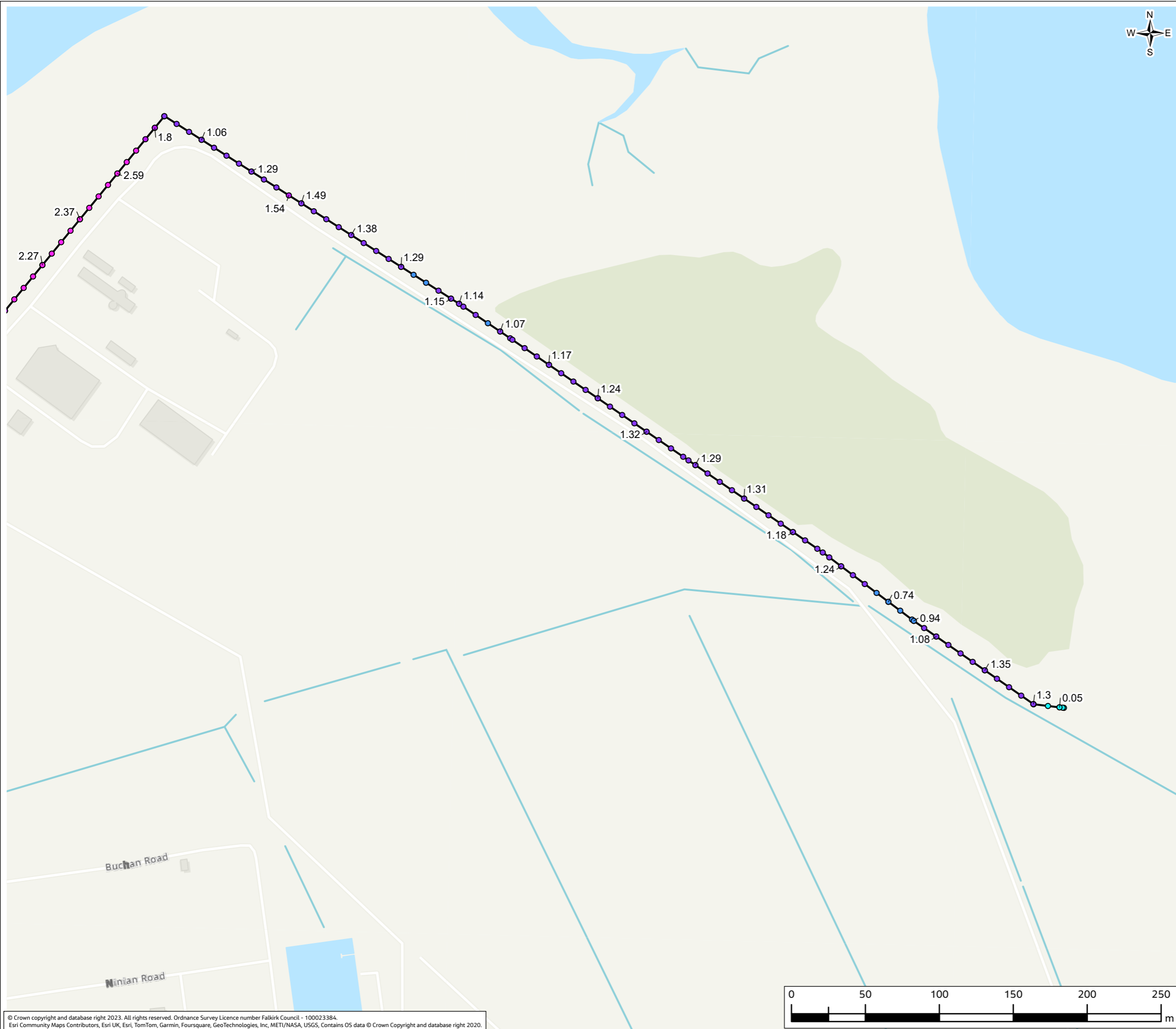
Flood defence heights (m) from existing ground level

*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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Project	Grangemouth Flood Protection Scheme
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Drawing Title	FLOOD CELL 6 - WORKING AREA 6-4: WATER TREATMENT WORKS FLOOD DEFENCE HEIGHTS
SHEET: 4 OF 4	

Drawing Status	S8-SUITABLE FOR STATUTORY CONSENT
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Drawing No.	Figure A4.56
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