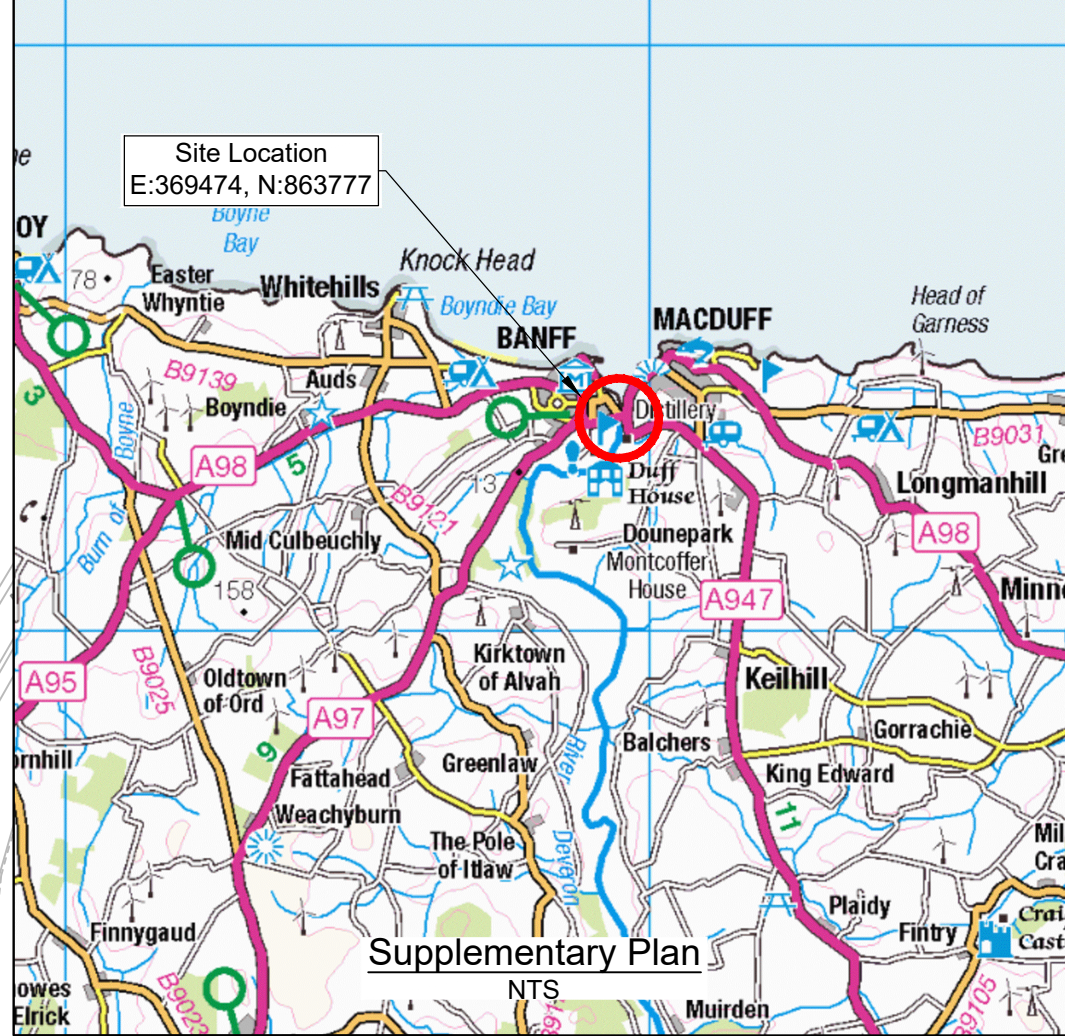


Plan  
Scale 1:2000



Supplementary Plan  
NTS

**RESIDUAL DESIGN HAZARDS**  
(The following information has been collected from Preconstruction Information and the Amey CDM Hazard Management Process.)

1. Working adjacent to / within a watercourse with tidal and fluvial flows,
2. Live traffic,
3. Public utilities,
4. Area vulnerable to flooding,
5. Uneven ground profile,
6. Interactions with the public,
7. Further deterioration of vulnerable structure,
8. Pollution of a Watercourse,
9. Steep gradients,
10. Working within the vicinity of a golf course.
11. Unstable embankment.
12. Invasive non-native species (INNS)

**KEY**

- Extent of Site below Mean high water springs (MHWS) = 8720m<sup>2</sup>
- - - Full extents of Site Boundary

Rev	Rev details	Drwn	Chkd	Appd	Date

Designed:	SAJG	Date:	04/04/24
Drawn:	SAJG	Date:	09/10/24
Checked:	EK	Date:	09/10/24
Approved:	AH	Date:	09/10/24

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Client  
**Aberdeenshire COUNCIL**

Project Name  
**A98 Banff Bridge Scour Protection**

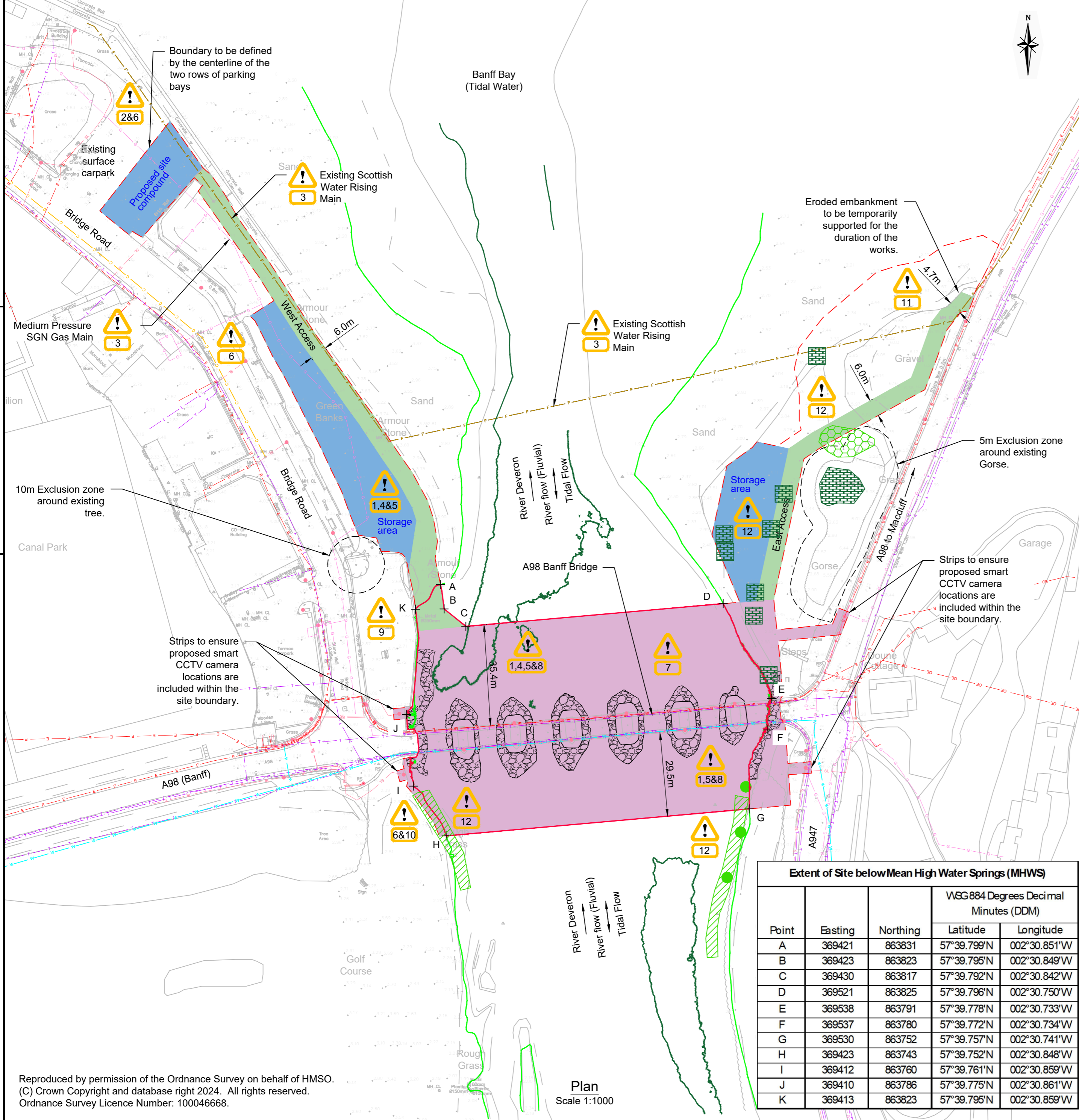
Drawing Title  
**Marine Licence - Location Plan**

Original Drg Size : A3	Scale : As Shown
Dimensions : m	

Drawing Status <b>FOR INFORMATION</b>	Suitability <b>S2</b>
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Drawing No <b>CON2500416-DR-0100-050</b>	Revision <b>P01</b>
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**NOTES**

- Do not scale from this drawing.
- All dimensions are in meters (m) unless stated otherwise.
- All survey data shown was provided by Aspect Land & Hydrographic Surveys Ltd. The survey data was collected between 11/03/24 and 11/04/24. Current site levels may vary.
- All Public Utilities are shown indicatively only. The locations were traced from Public Utility and Symology Plans. Therefore, this drawing must be read in conjunction with the Public Utility Plans provided. CAT and Genny scans must be carried out by The Principal Contractor prior to any intrusive works being undertaken.
- The Principal Contractor shall be responsible for ensuring adequate protection is installed above the Scottish Water Rising Main and the Scottish Gas Network (SGN) Gas Main to satisfy all Scottish Water, Scottish Gas Network and any overseeing organisations' requirements, before the access route is trafficked.
- In addition to the natural riverbed materials, the bed contains stone from a historic rock apron to an unknown depth and larger displaced riprap stone.

**KEY**

- Extent of Site below Mean high water springs (MHWS) = 8720m<sup>2</sup>
- Full extents of Site Boundary
- Mean high water springs (MHWS)
- Mean low water springs (MLWS)
- Proposed temporary access route
- Proposed extent of temporary site compound / storage areas
- Proposed extent of working area
- Existing ground level
- Existing ground contours
- Existing riprap (larger than 500mm diameter)

**Public Utilities**

- Gas main
- Electricity underground
- Electricity overhead
- Streetlighting column / pillar
- Streetlighting cable
- Pumped rising main sewer (foul)
- Combined sewer
- Fiber optic / Telecom underground
- Telecom overhead
- Water main

**Invasive non-native species (INNS)**

- Giant Hogweed (indicative location)
- Three Cornered Garlic (indicative location)
- White Butterbur (indicative location)
- Japanese Rose (indicative location)

**RESIDUAL DESIGN HAZARDS**

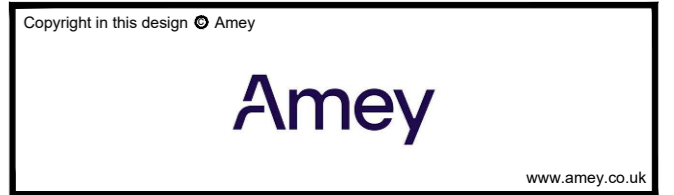
(The following information has been collected from Preconstruction Information and the Amey CDM Hazard Management Process.)

- Working adjacent to / within a watercourse with tidal and fluvial flows,
- Live traffic,
- Public utilities,
- Area vulnerable to flooding,
- Uneven ground profile,
- Interactions with the public,
- Further deterioration of vulnerable structure,
- Pollution of a Watercourse,
- Steep gradients,
- Working within the vicinity of a golf course,
- Unstable embankment.
- Invasive non-native species (INNS)

**NOTES (Continued)**

- Giant Hogweed, Three Cornered Garlic, White Butterbur and Japanese Rose are present within / in close proximity of the site. Information of the Invasive non-native species (INNS) shall be found in document EC142262A98 Banff Bridge Protected, Notable and Invasive Species Report. The report must be read in conjunction with all drawings.
- The storage areas shown are potentially subject to flooding, depending on river levels and tides conditions. Any plant, materials and equipment may require to be relocated at short notice. No in-situ fuel storage within area vulnerable to flooding is permitted. All fuel storage shall be in banded bowsters, that could be relocated as necessary. (A flood evacuation plan will be required).

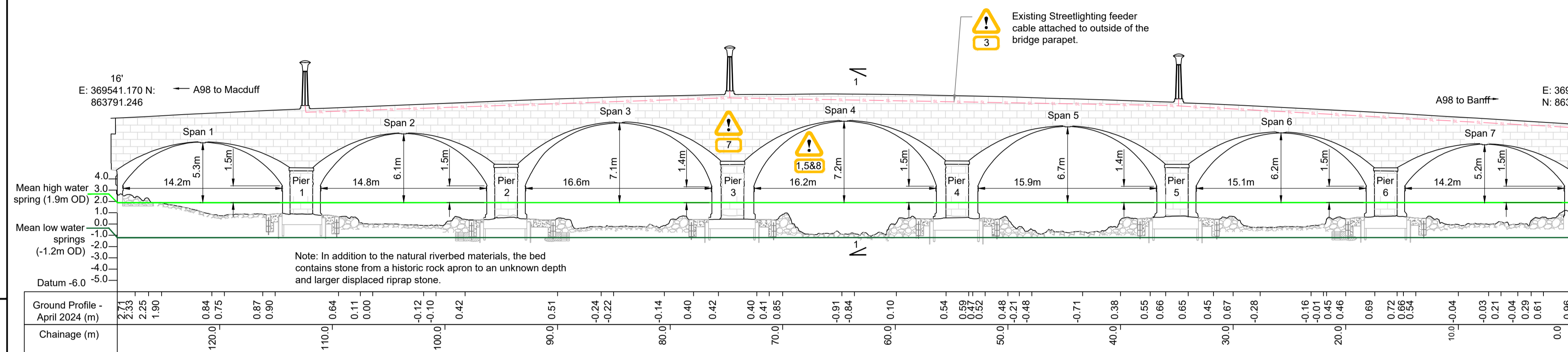
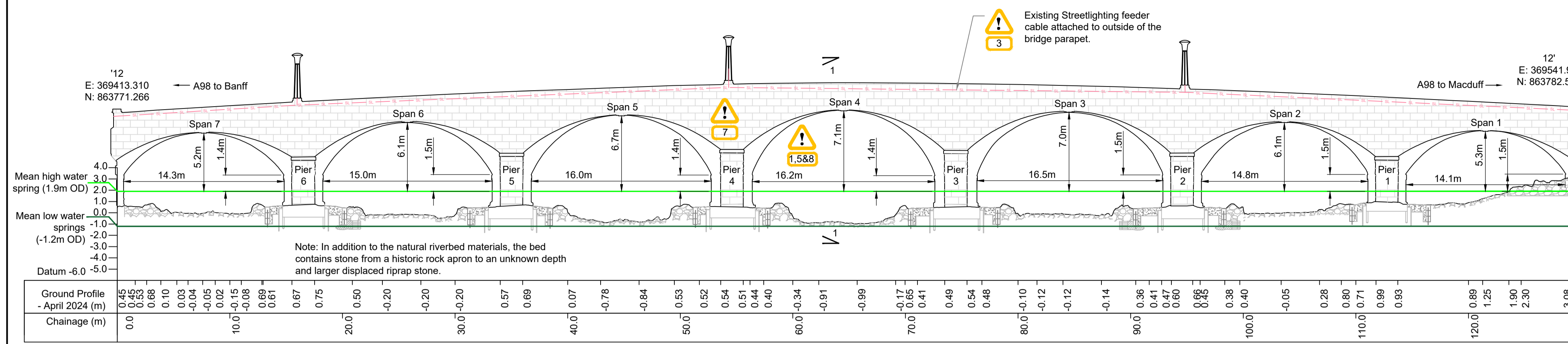
Rev	Rev details	Drwn	Chkd	Appd	Date
Designed:	SAJG				Date: 20/05/24
Drawn:	SAJG				Date: 09/10/24
Checked:	EK				Date: 09/10/24
Approved:	AH				Date: 09/10/24



Project Name  
**A98 Banff Bridge Scour Protection**

Drawing Title  
**Marine Licence - Site Extents**

Original Drg Size : A2	Scale : 1:1000
Dimensions : m	
Drawing Status <b>FOR INFORMATION</b>	Suitability S2
Drawing No <b>CON2500416-DR-0100-051</b>	Revision P01

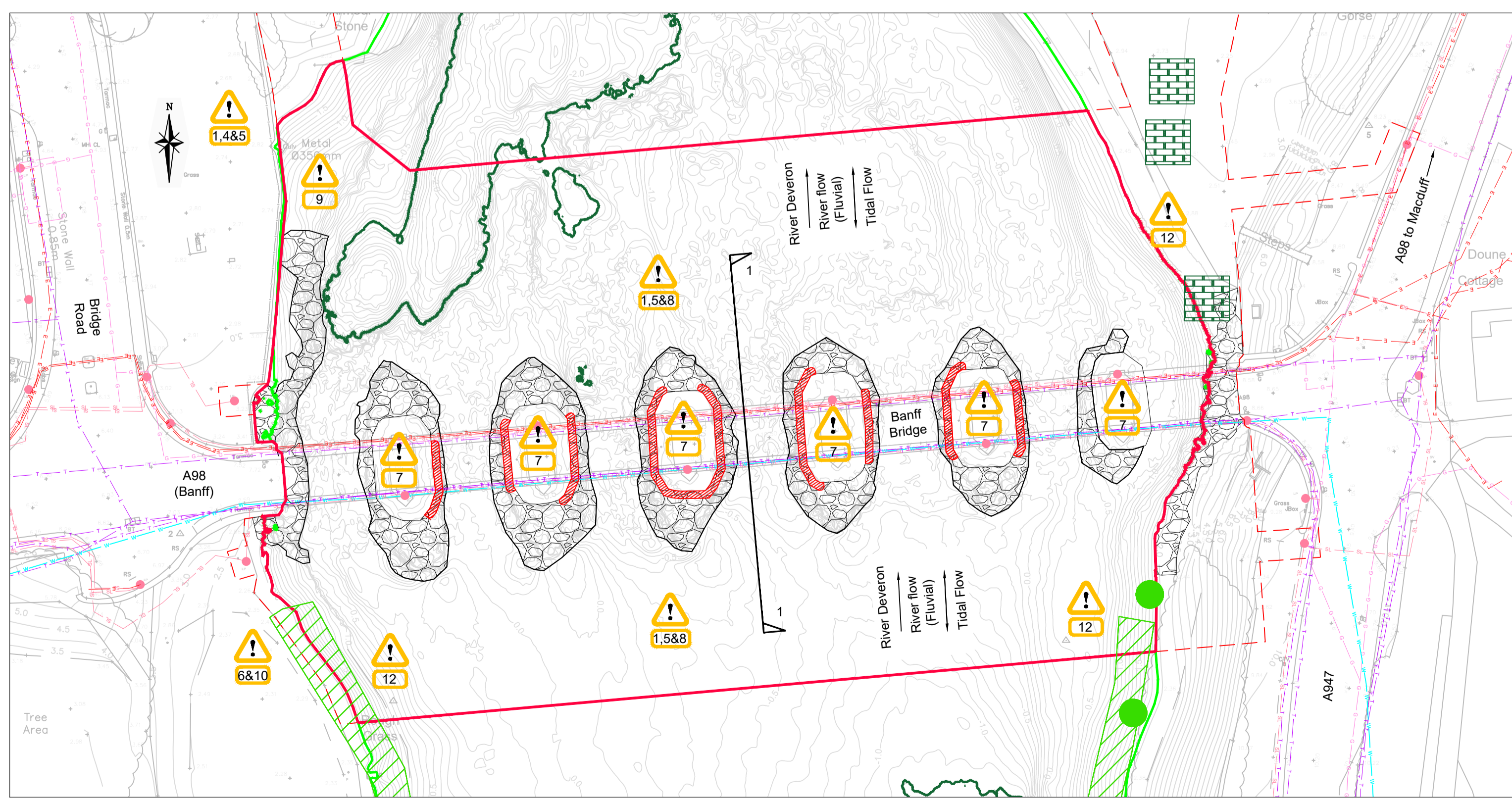
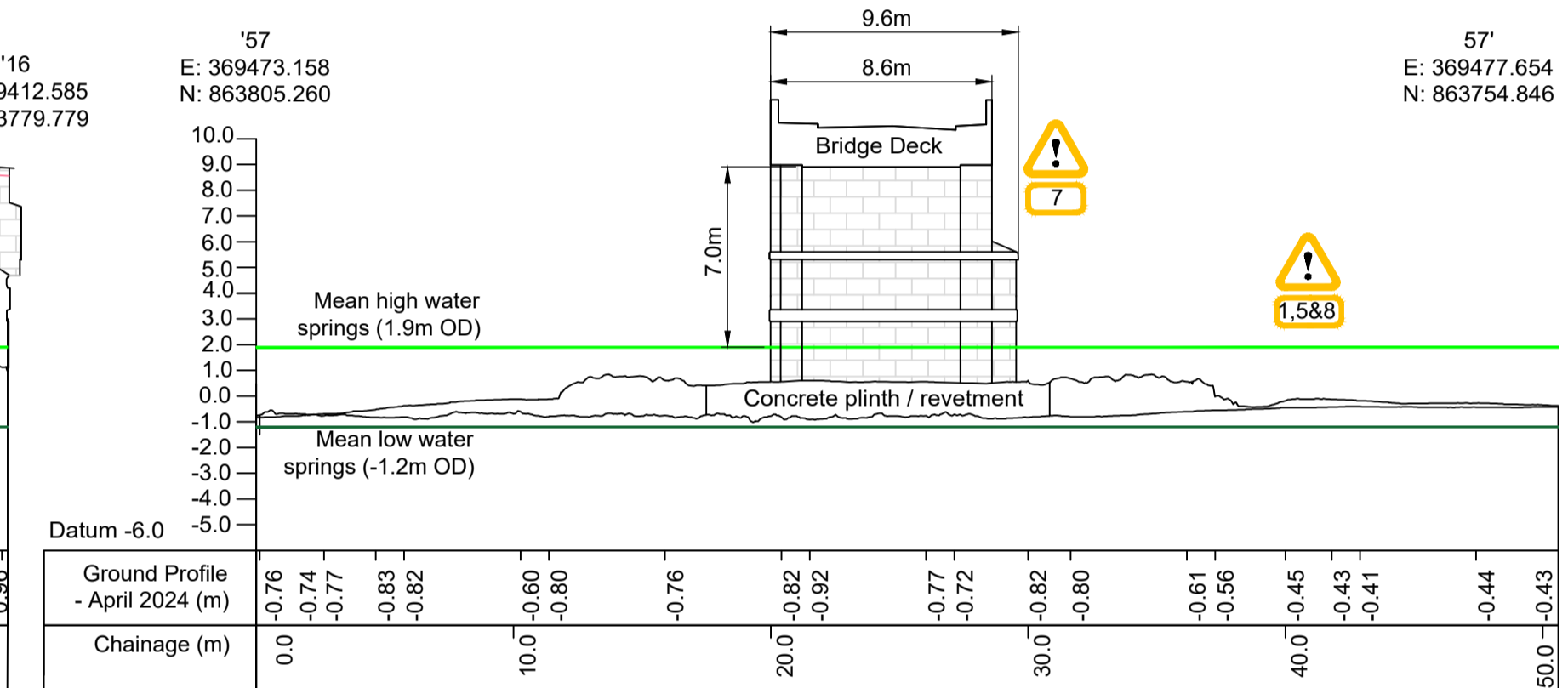


**NOTES**

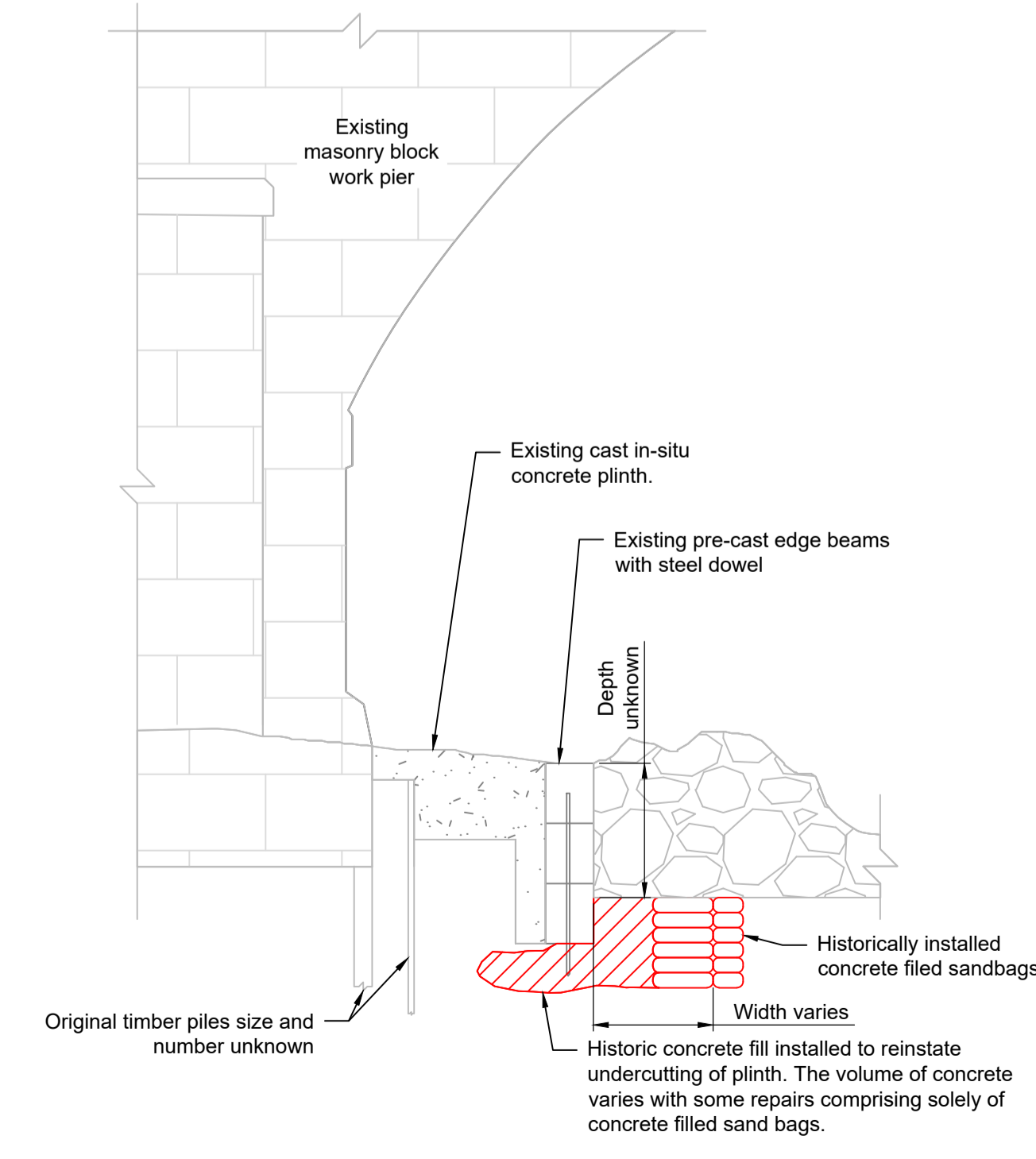
- Do not scale from this drawing.
- All dimensions are in metres (m) unless stated otherwise.
- All survey data shown was provided by Aspect Land & Hydrographic Surveys Ltd. The survey data was collected between 11/03/24 and 11/04/24. Current site levels may vary.
- Historic concrete repairs as shown in Detail E1 were made between 2009 and 2011 to reinstate undercutting at plinths. The exact repair extents and sizes are unknown. Therefore, all locations in plan and on the elevations are shown indicatively only. The extents shall be checked on site by the contractor.
- All Public Utilities are shown indicatively only. The locations were traced from Public Utility and Symology Plans. Therefore, this drawing must be read in conjunction with the Public Utility Plans provided. CAT and Genny scans must be carried out by The Principal Contractor prior to any intrusive works being undertaken.
- Information of the Invasive non-native species (INNS) shall be found in document EC142262A98 Banff Bridge Protected, Notable and Invasive Species Report. The report must be read in conjunction with all drawings.

**RESIDUAL DESIGN HAZARDS**  
(The following information has been collected from Preconstruction Information and the Amey CDM Hazard Management Process.)

- Working adjacent to / within a watercourse with tidal and fluvial flows.
- Live traffic.
- Public utilities.
- Area vulnerable to flooding.
- Uneven ground profile.
- Interactions with the public.
- Further deterioration of vulnerable structure.
- Pollution of a Watercourse.
- Sleep gradients.
- Working within the vicinity of a golf course.
- Unstable embankment.
- Invasive non-native species (INNS)



- KEY**
- Extent of Site below Mean high water springs (MHWS) = 8720m<sup>2</sup>
  - Full extents of Site Boundary
  - Mean high water springs (MHWS)
  - Mean low water springs (MLWS)
  - Existing ground level
  - Existing ground contours
  - Existing riprap (larger than 500mm diameter)
  - Approximate extent of historic undercutting repair detail as shown in Detail E1.
- Public Utilities**
- Gas main
  - Electricity underground
  - Electricity overhead
  - Streetlighting column / pillar
  - Streetlighting cable
  - Pumped rising main sewer (foul)
  - Combined sewer
  - Fiber optic / Telecom underground
  - Telecom overhead
  - Water main
- Invasive non-native species (INNS)**
- Giant Hogweed (indicative location)
  - Three Cornered Garlic (indicative location)
  - Japanese Rose (indicative location)



Rev	Revision details	Drwn	Chkd	Appd	Date
Designed:	SAJG				Date: 09/10/24
Drawn:	SAJG				Date: 09/10/24
Checked:	EK				Date: 09/10/24
Approved:	AH				Date: 09/10/24

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**Aberdeenshire COUNCIL**

Project Name

**A98 Banff Bridge Scour Protection**

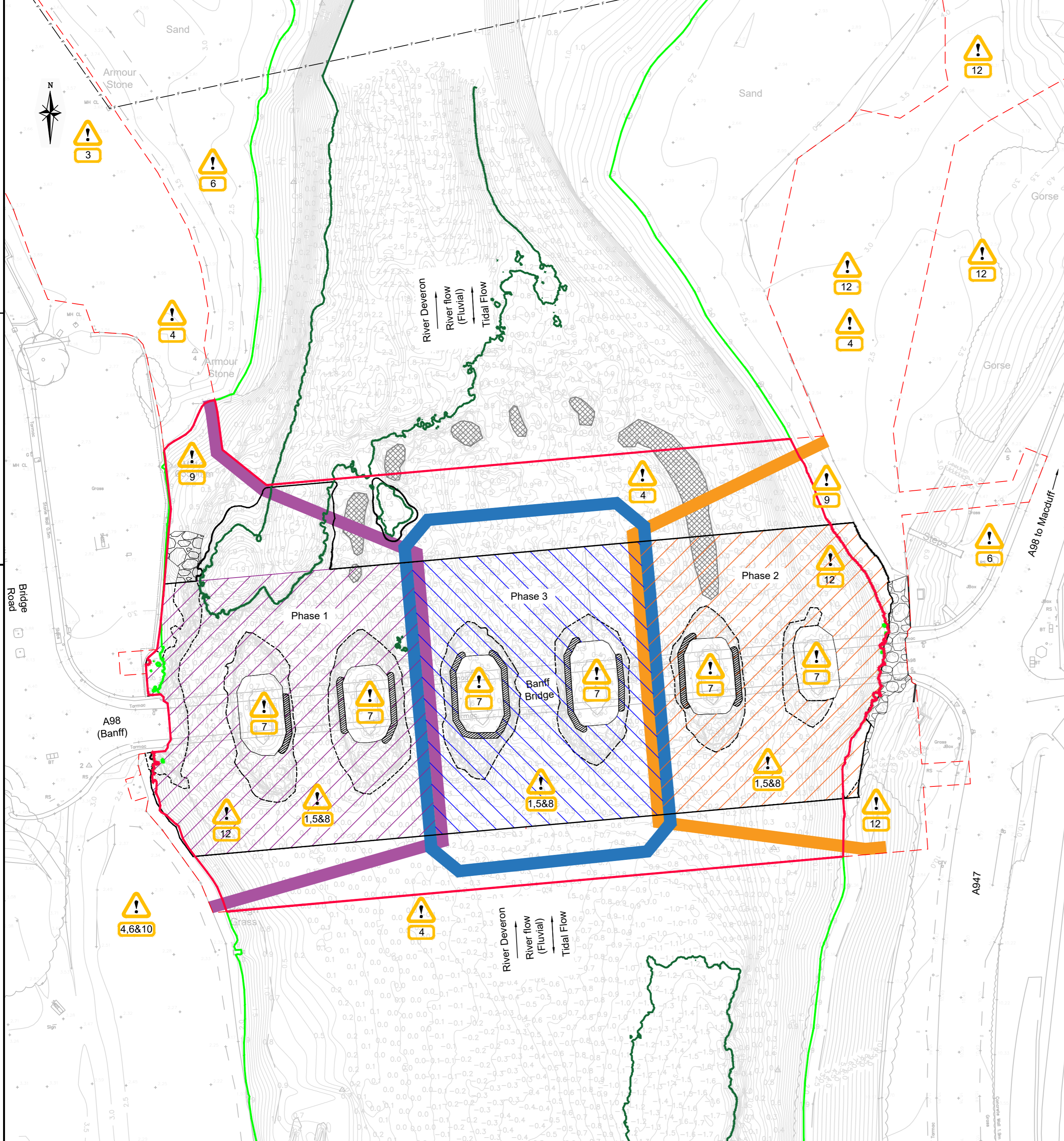
Drawing Title

**Marine Licence - Existing General Arrangement and Public Utilities**

Original Drawing Size : A1	Scale : As Shown
Dimensions : m	

Drawing Status	Suitability
<b>FOR INFORMATION</b>	S2

Drawing No	Rev
<b>CON2500416-DR-0100-052</b>	P01



**NOTES**

1. Do not scale from this drawing.
2. All dimensions are in meters (m) unless stated otherwise.
3. All temporary works are shown indicatively only. The Principal Contractor shall be responsible for design, certification, installation, maintenance, amendment of and removal of all temporary works and phasing required for the works.
4. Prior to the installation of any temporary works the Principal Contractor shall be responsible for undertaking catchment studies and / or hydrological models as required to ensure the temporary work will not cause flooding or accelerated scour to the Engineer for the works satisfaction. Additionally, the Principal Contractor shall confirm the temporary Works are suitable to withstand both fluvial and tidal flows.
5. Works shall be sequenced to avoid working with in spans 3,4 and 5 during the period of May to July where practicable. Works within this period shall be agreed with relevant stakeholders.
6. Temporary damming method to be confirmed by the Principal Contractor.

**KEY (General)**

- Extent of Site below Mean high water springs (MHWS) = 8720m<sup>2</sup>
- - - Full extents of Site Boundary
- Mean high water springs (MHWS)
- Mean low water springs (MLWS)
- Existing ground level
- Existing ground contours
- Approximate extent of historic undercutting repair detail as shown in Detail E1 on drawing number: CON2500416-DR-0100-004.
- Existing riprap to remain in place
- Extent of existing fish passage pool created from rocks
- Outline of proposed works
- Indicative extent of Phase 1 to be excavated to a depth of approximately 300mm for the installation of the proposed rock mattress and ground anchors
- Indicative extent of Phase 2 to be excavated to a depth of approximately 300mm for the installation of the proposed rock mattress and ground anchors
- Indicative footprint of temporary dam for Phase 1 extents and type subject to change
- Indicative footprint of temporary dam for Phase 2 extents and type subject to change
- Indicative extent of Phase 3 to be excavated to a depth of approximately 300mm for the installation of the proposed rock mattress and ground anchors
- Indicative footprint of temporary dam for Phase 3 extents and type subject to change
- - - Approximate Outline of riprap to be removed

**RESIDUAL DESIGN HAZARDS**

*(The following information has been collected from Preconstruction Information and the Amey CDM Hazard Management Process.)*

1. Working adjacent to / within a watercourse with tidal and fluvial flows,
2. Live traffic,
3. Public utilities,
4. Area vulnerable to flooding,
5. Uneven ground profile,
6. Interactions with the public,
7. Further deterioration of vulnerable structure,
8. Pollution of a Watercourse,
9. Steep gradients,
10. Working within the vicinity of a golf course,
11. Unstable embankment,
12. Invasive non-native species (INNS).

Rev	Rev details	Drwn	Chkd	Appd	Date
Designed:	SAJG / GB				Date: 09/08/24
Drawn:	SAJG				Date: 09/10/24
Checked:	EK				Date: 09/10/24
Approved:	AH				Date: 09/10/24

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**Aberdeenshire COUNCIL**

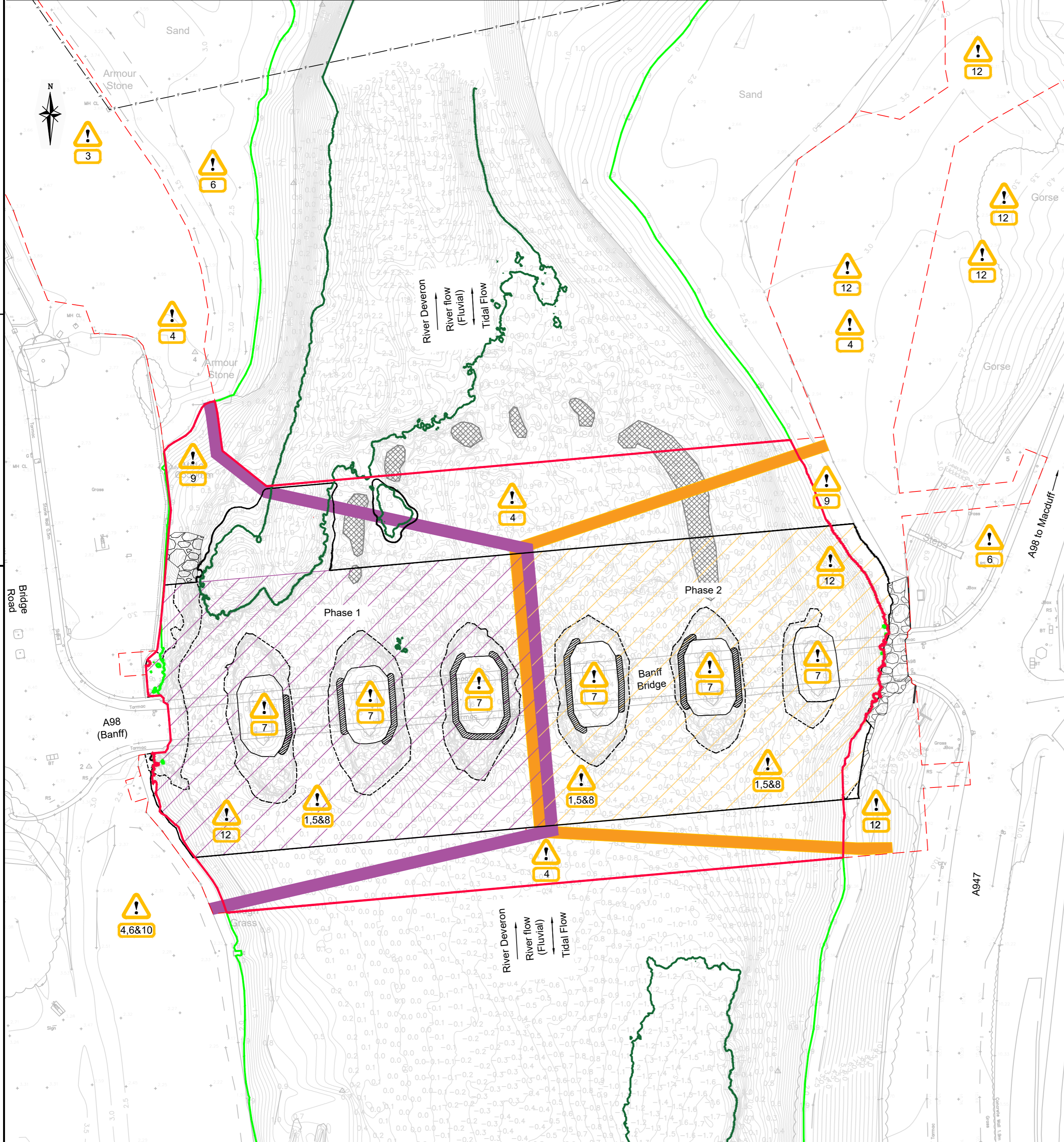
Project Name  
**A98 Banff Bridge Scour Protection**

Drawing Title  
**Marline Licence - Indicative Construction Sequence Option 1**

Original Drg Size : A2	Scale : 1:500
Dimensions : m	

Drawing Status <b>FOR INFORMATION</b>	Suitability S2
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Drawing No <b>CON2500416-DR-0100-053</b>	Revision P01
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**NOTES**

1. Do not scale from this drawing.
2. All dimensions are in meters (m) unless stated otherwise.
3. All temporary works are shown indicatively only. The Principal Contractor shall be responsible for design, certification, installation, maintenance, amendment of and removal of all temporary works and phasing required for the works.
4. Prior to the installation of any temporary works the Principal Contractor shall be responsible for undertaking catchment studies and / or hydrological models as required to ensure the temporary work will not cause flooding or accelerated scour to the Engineer for the works satisfaction. Additionally, the Principal Contractor shall confirm the temporary Works are suitable to withstand both fluvial and tidal flows.
5. Works shall be sequenced to avoid working with in spans 3,4 and 5 during the period of May to July where practicable. Works within this period shall be agreed with relevant stakeholders.
6. Temporary damming method to be confirmed by the Principal Contractor.

**KEY (General)**

- Extent of Site below Mean high water springs (MHWS) = 8720m<sup>2</sup>
- - - Full extents of Site Boundary
- Mean high water springs (MHWS)
- Mean low water springs (MLWS)
- Existing ground level
- Existing ground contours
- Approximate extent of historic undercutting repair detail as shown in Detail E1 on drawing number: CON2500416-DR-0100-004.
- Existing riprap to remain in place
- Extent of existing fish passage pool created from rocks
- Outline of proposed works
- Indicative extent of Phase 1 to be excavated to a depth of approximate 300mm for the installation of the proposed rock mattress and ground anchors
- Indicative footprint of temporary dam for Phase 1 extents and type subject to change
- Indicative extent of Phase 2 to be excavated to a depth of approximate 300mm for the installation of the proposed rock mattress and ground anchors
- Indicative footprint of temporary dam for Phase 2 extents and type subject to change
- - - Approximate Outline of riprap to be removed

**RESIDUAL DESIGN HAZARDS**

*(The following information has been collected from Preconstruction Information and the Amey CDM Hazard Management Process.)*

1. Working adjacent to / within a watercourse with tidal and fluvial flows,
2. Live traffic,
3. Public utilities,
4. Area vulnerable to flooding,
5. Uneven ground profile,
6. Interactions with the public,
7. Further deterioration of vulnerable structure,
8. Pollution of a Watercourse,
9. Steep gradients,
10. Working within the vicinity of a golf course,
11. Unstable embankment,
12. Invasive non-native species (INNS).

Rev	Rev details	Drwn	Chkd	Appd	Date
Designed:	SAJG / GB				Date: 09/08/24
Drawn:	SAJG				Date: 09/10/24
Checked:	EK				Date: 09/10/24
Approved:	AH				Date: 09/10/24

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Project Name  
**A98 Banff Bridge Scour Protection**

Drawing Title  
**Indicative Construction Sequence Option 2**

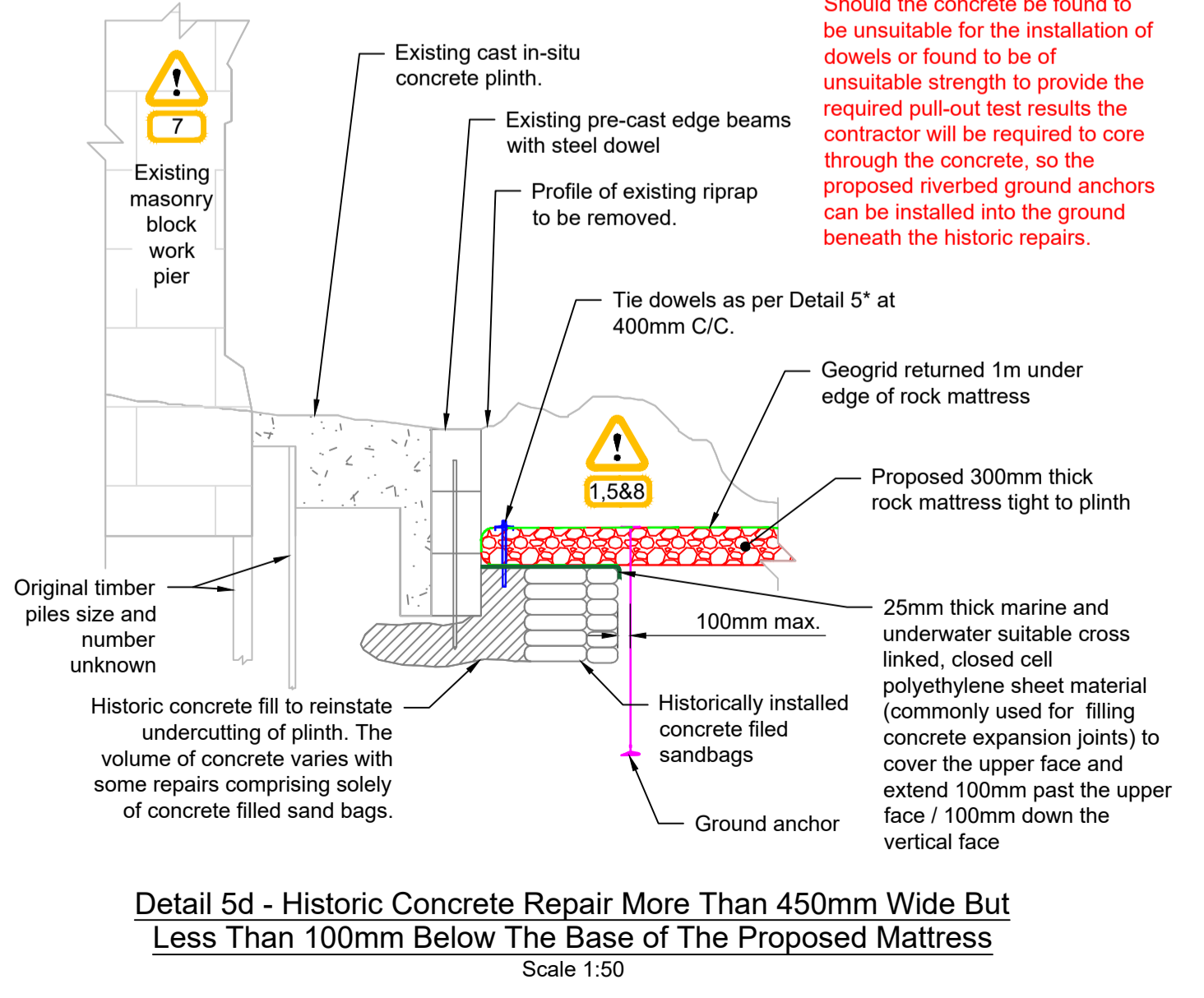
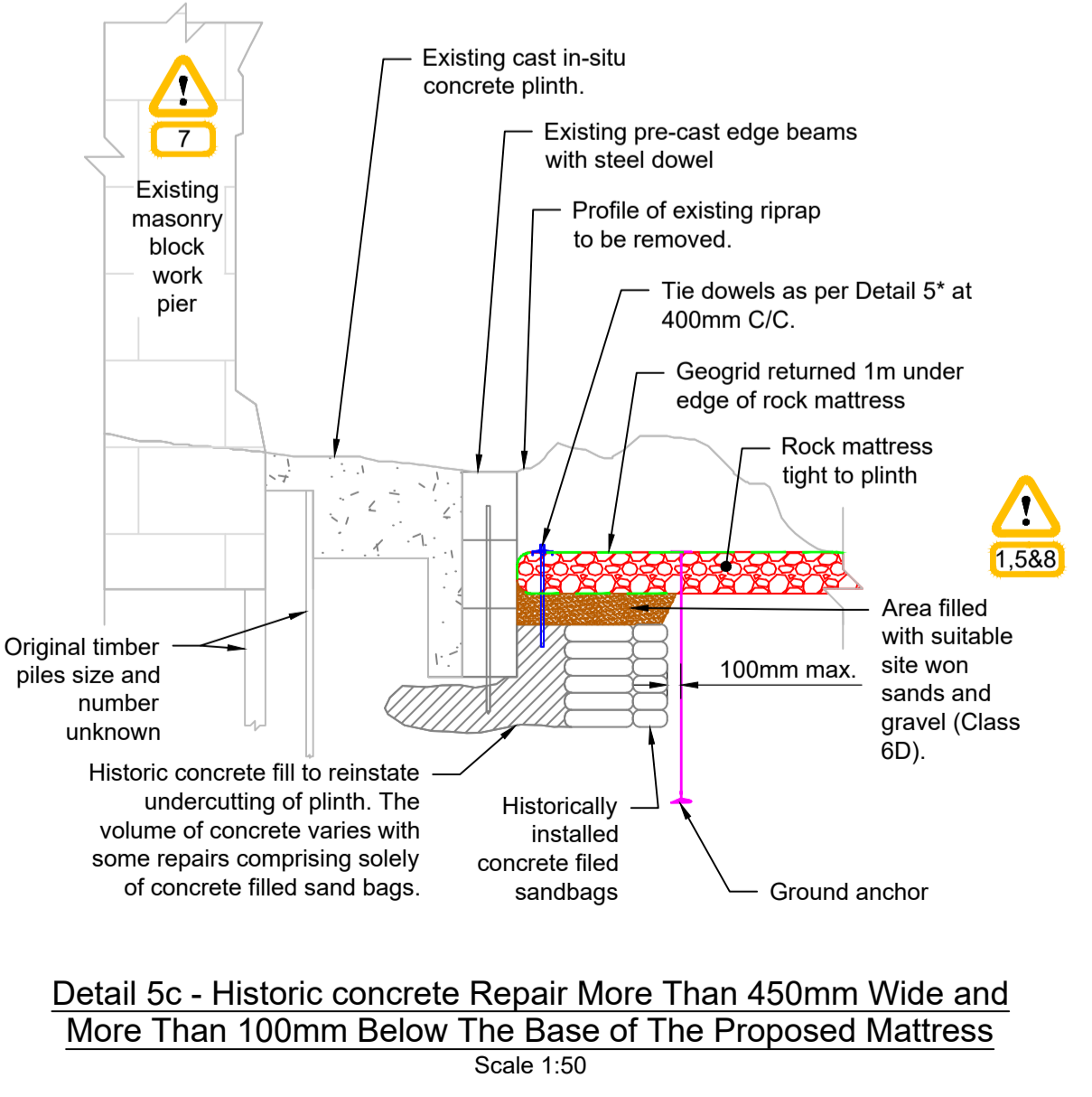
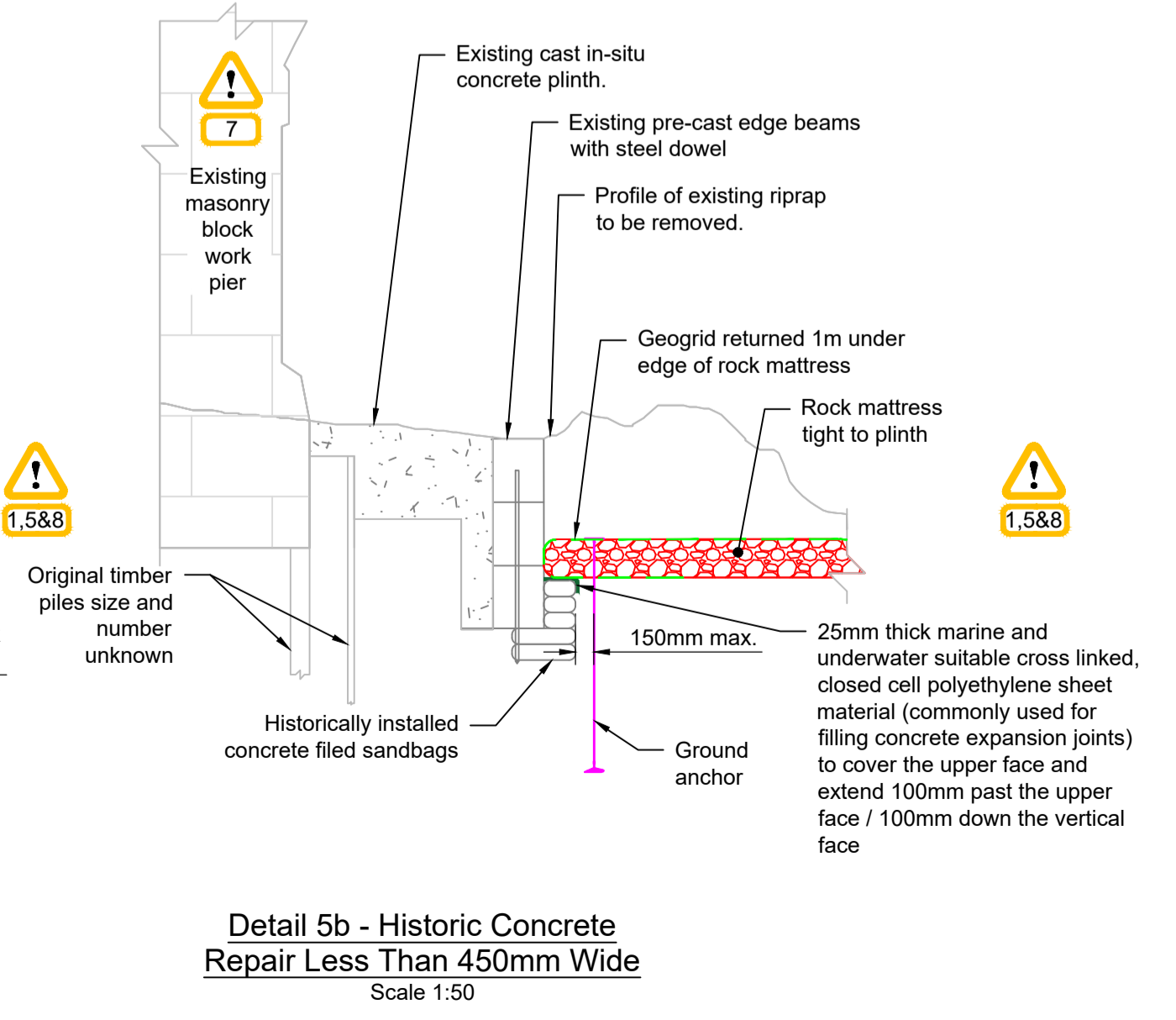
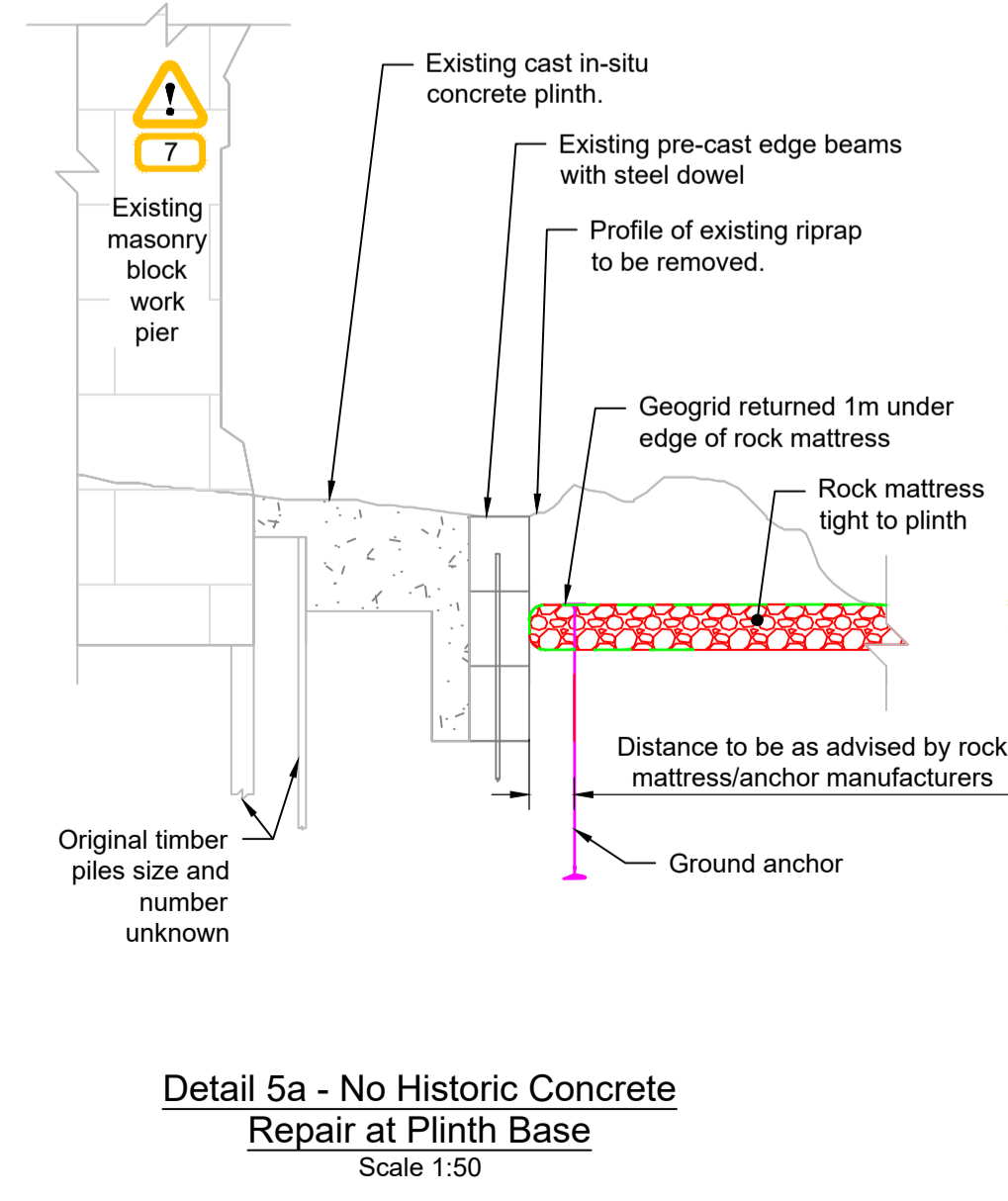
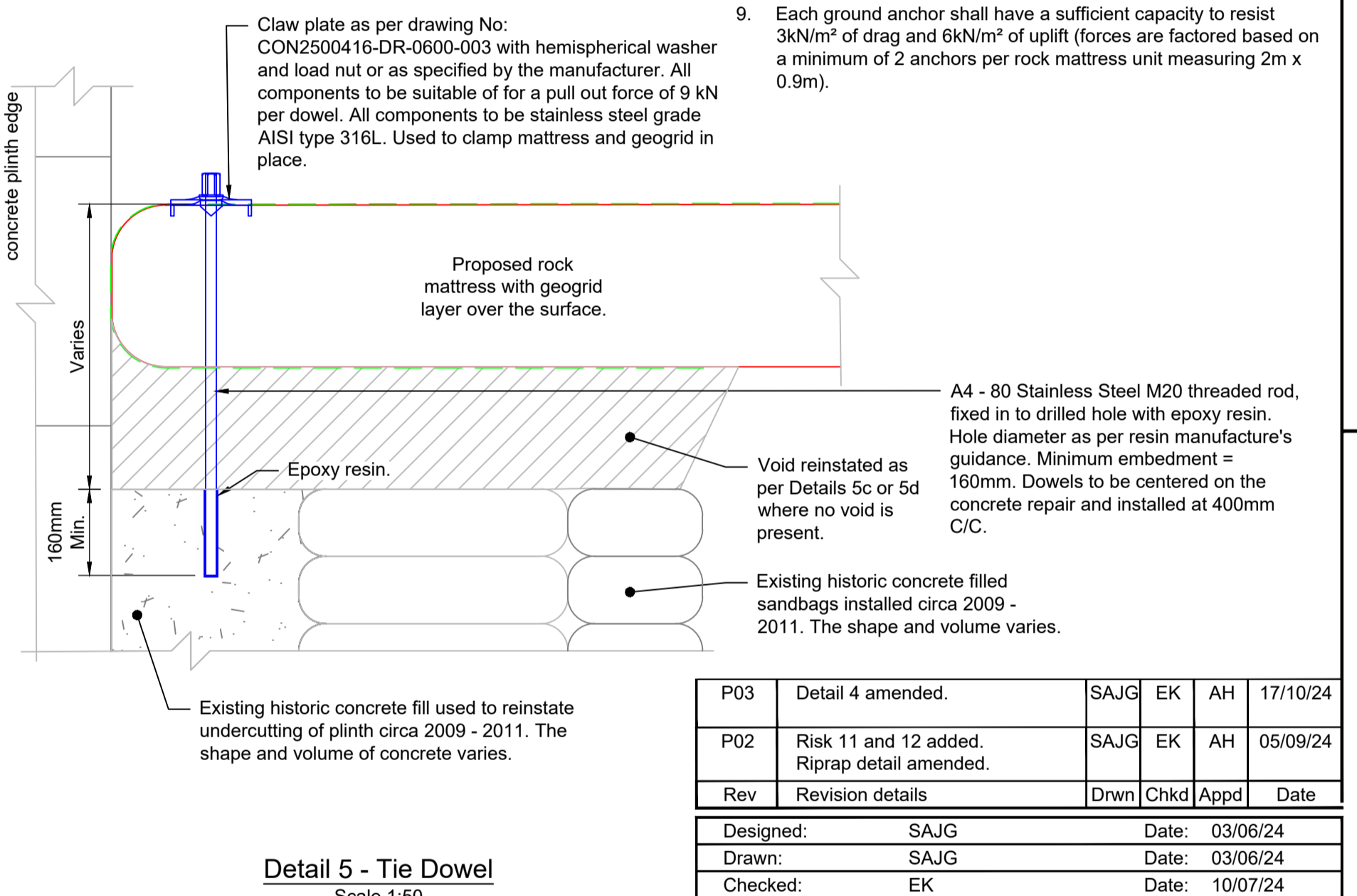
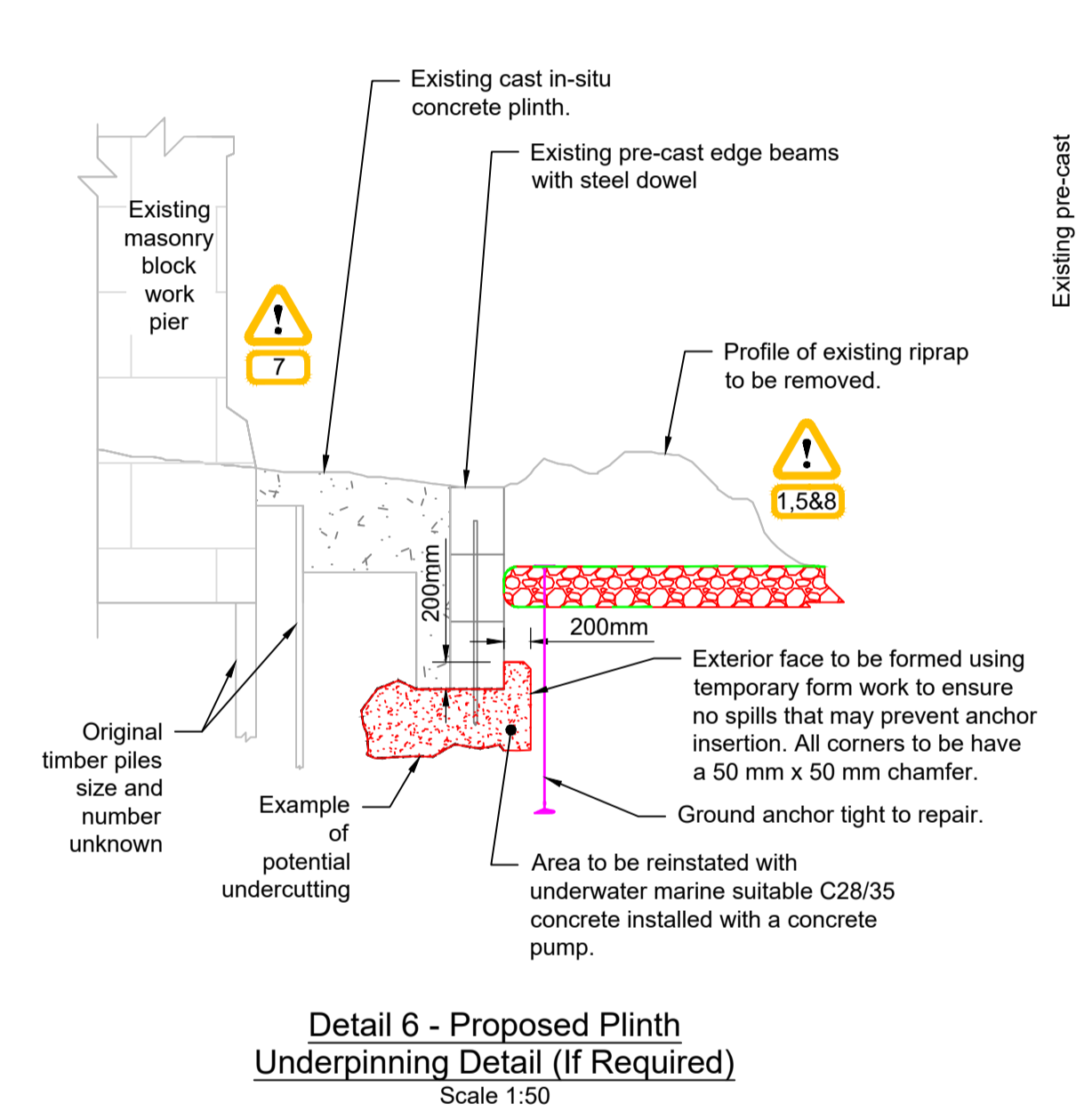
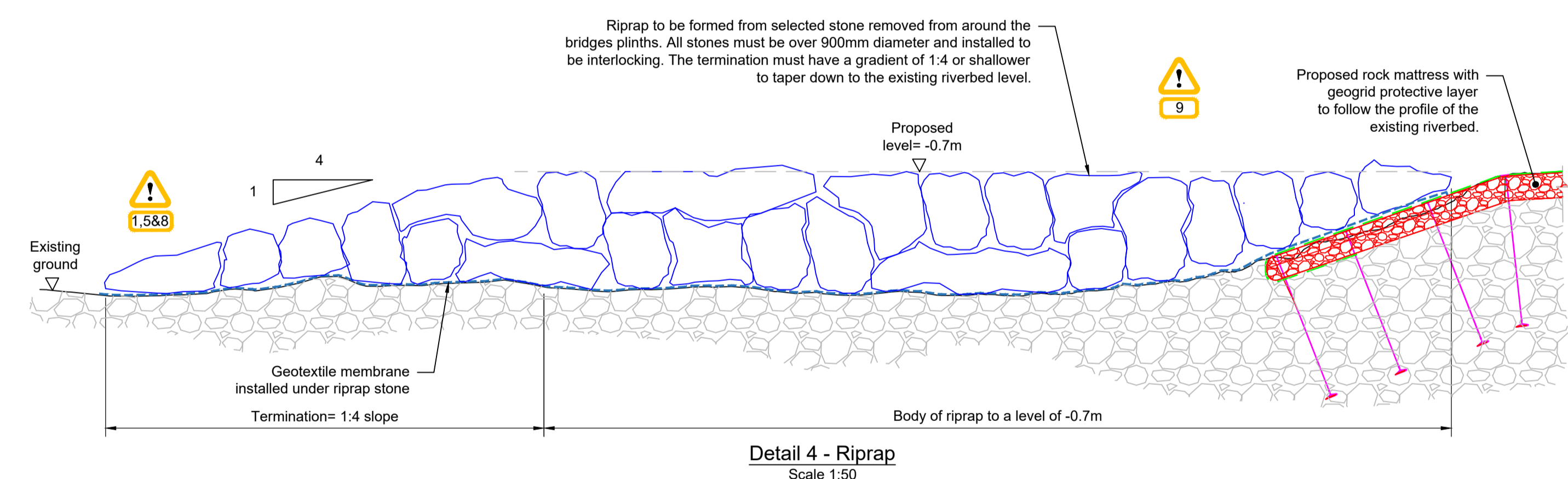
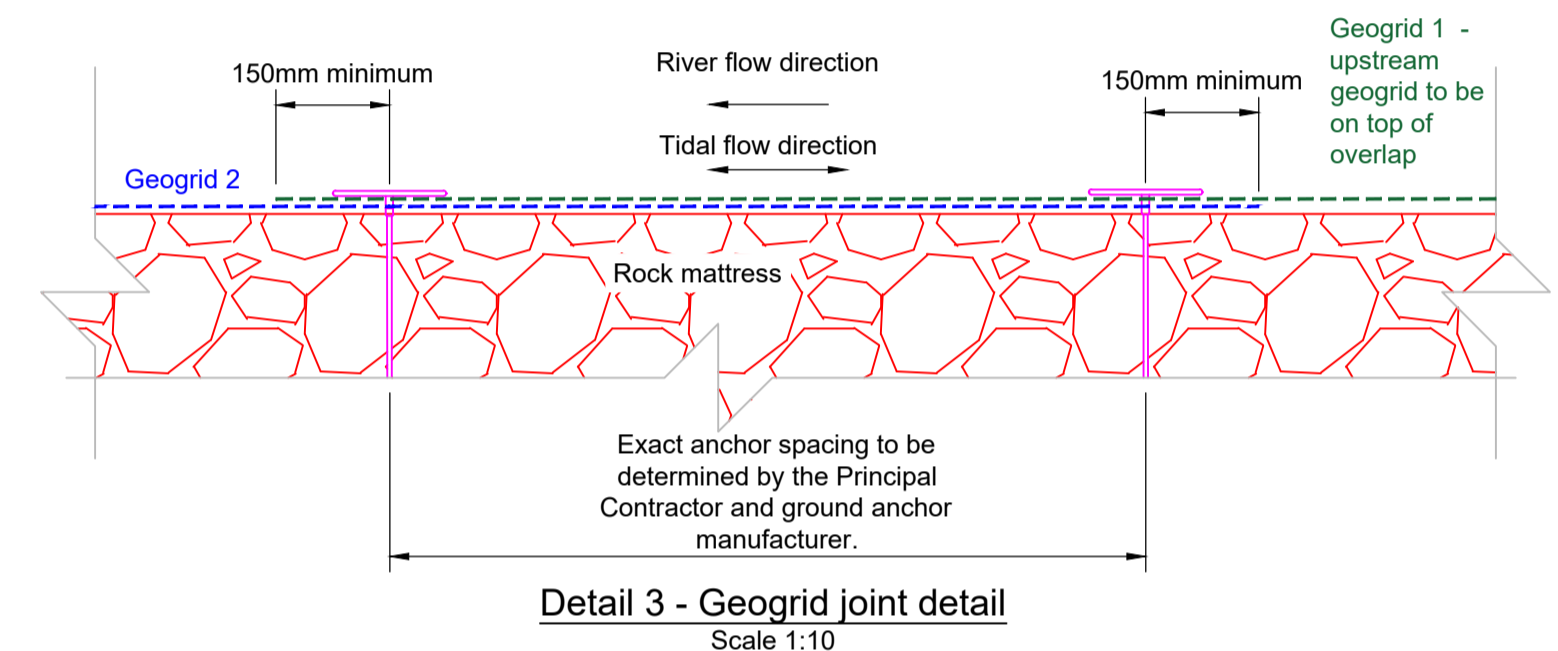
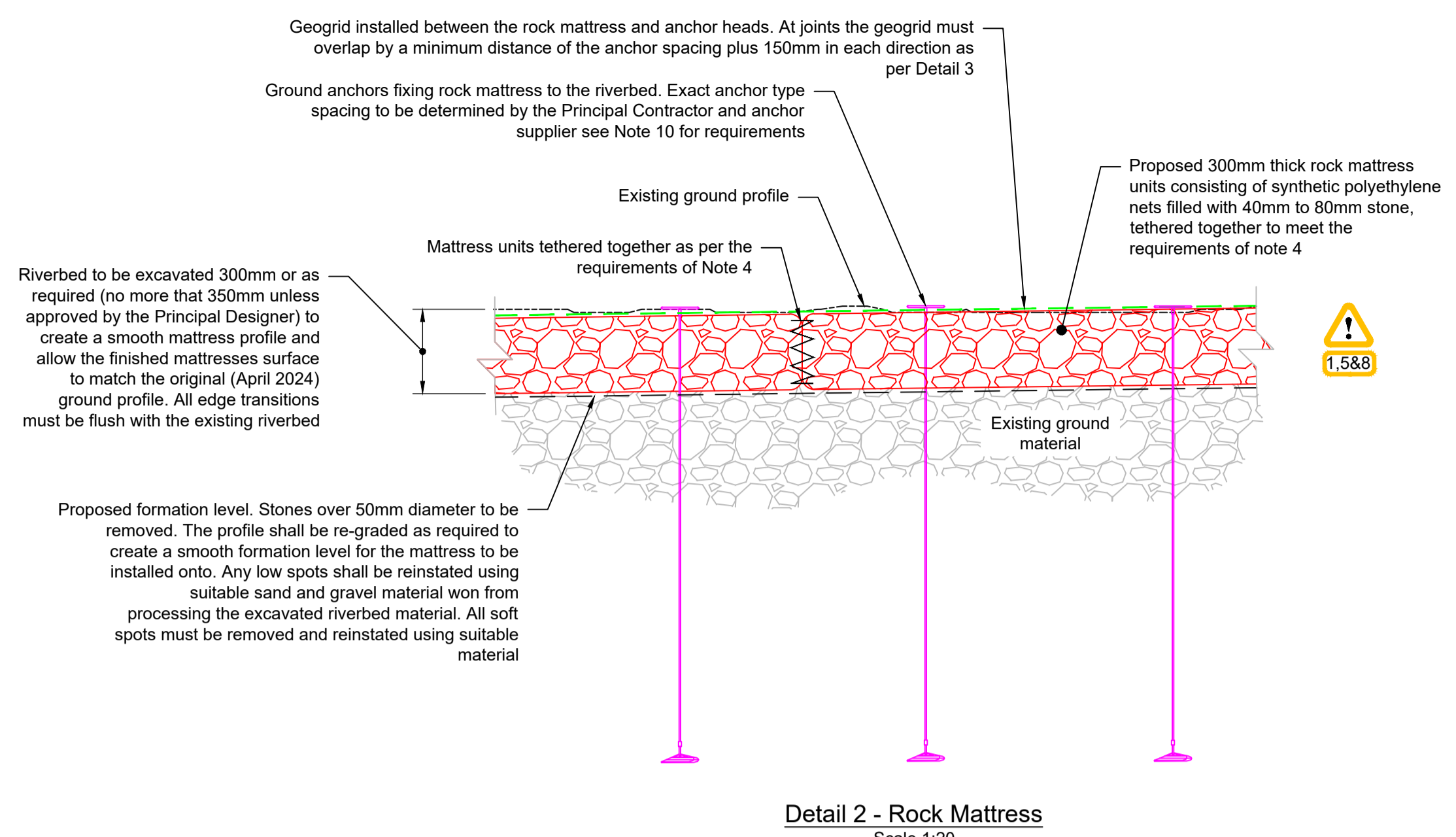
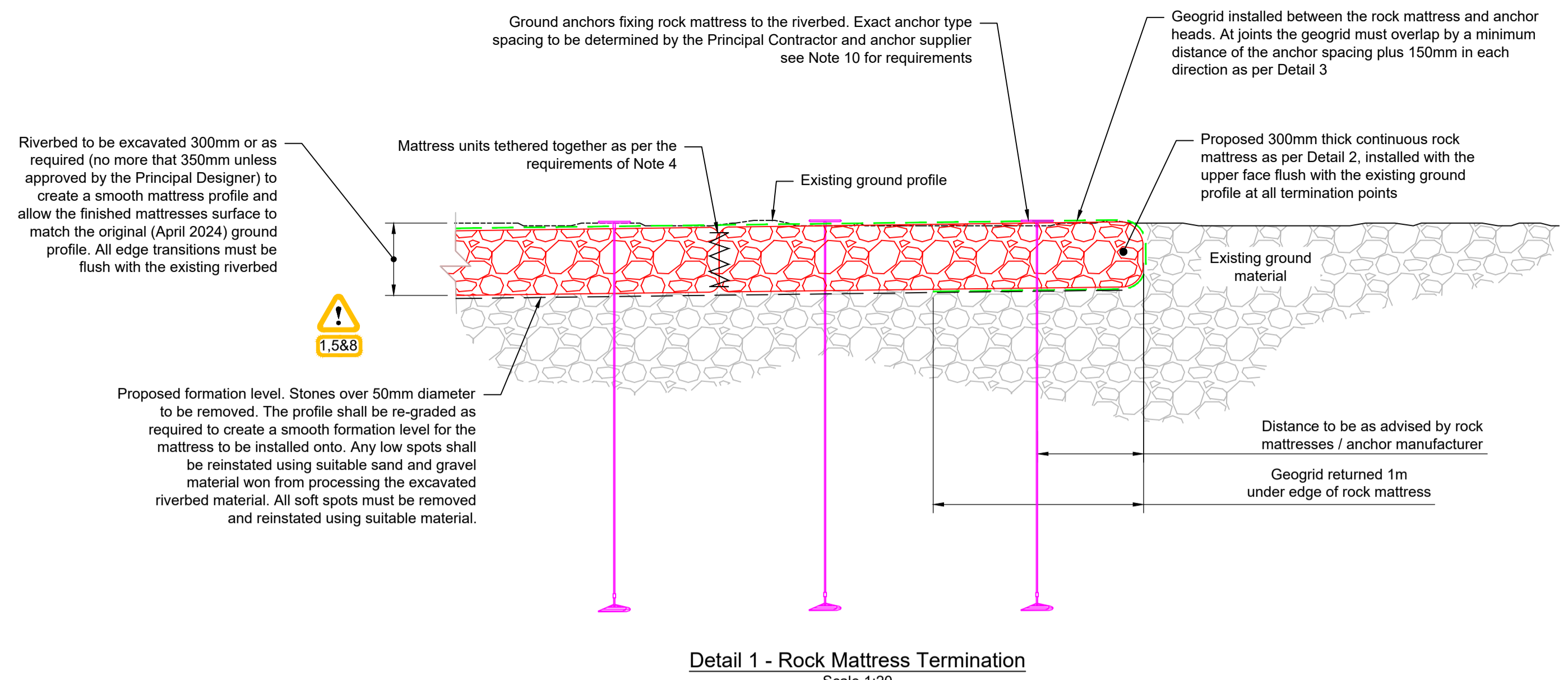
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Dimensions : m	

Drawing Status <b>FOR INFORMATION</b>	Suitability S2
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Drawing No <b>CON2500416-DR-0100-054</b>	Revision P01
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**RESIDUAL DESIGN HAZARDS**  
 (The following information has been collected from Preconstruction Information and the Amey CDM Hazard Management Process.)

- Working adjacent to / within a watercourse with tidal and fluvial flows.
- Live traffic.
- Public utilities.
- Area vulnerable to flooding.
- Uneven ground profile.
- Interactions with the public.
- Further deterioration of vulnerable structure.
- Pollution of a Watercourse.
- Steep gradients.
- Working within the vicinity of a golf course.
- Unstable embankment.
- Invasive non-native species (INNS)



\*Note: The condition of the existing concrete is unknown. Should the concrete be found to be unsuitable for the installation of dowels or found to be of unsuitable strength to provide the required pull-out test results the contractor will be required to core through the concrete, so the proposed riverbed ground anchors can be installed into the ground beneath the historic repairs.

P03	Detail 4 amended.	SAJG	EK	AH	17/10/24
P02	Risk 11 and 12 added. Riprap detail amended.	SAJG	EK	AH	05/09/24
Rev	Revision details	Drwn	Chkd	Appd	Date
Designed:	SAJG	Date:	03/06/24		
Drawn:	SAJG	Date:	03/06/24		
Checked:	EK	Date:	10/07/24		
Approved:	KOC	Date:	14/08/24		

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**Aberdeenshire COUNCIL**

Project Name  
**A98 Banff Bridge Scour Protection**

Drawing Title  
**Proposed Construction Details**

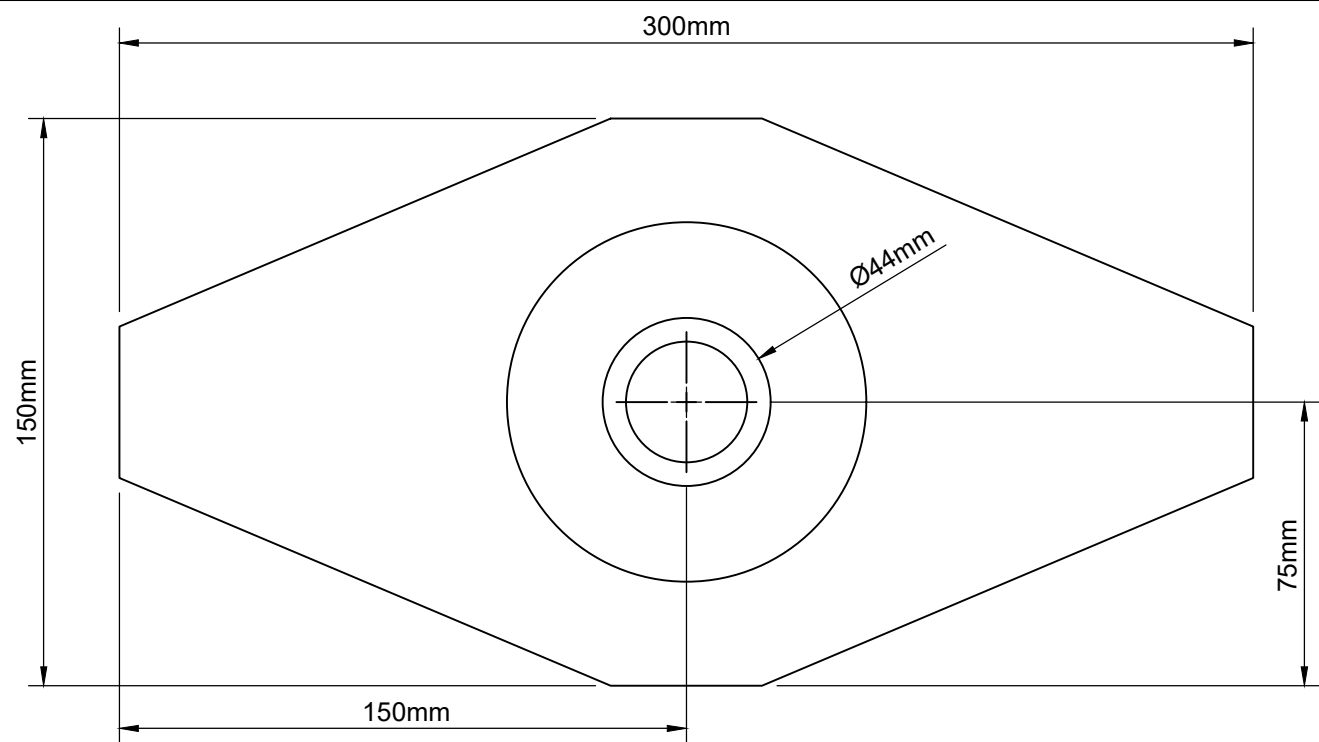
Original Drawing Size : A1 Scale : As Shown  
Dimensions : mm

Drawing Status  
**FOR INFORMATION**

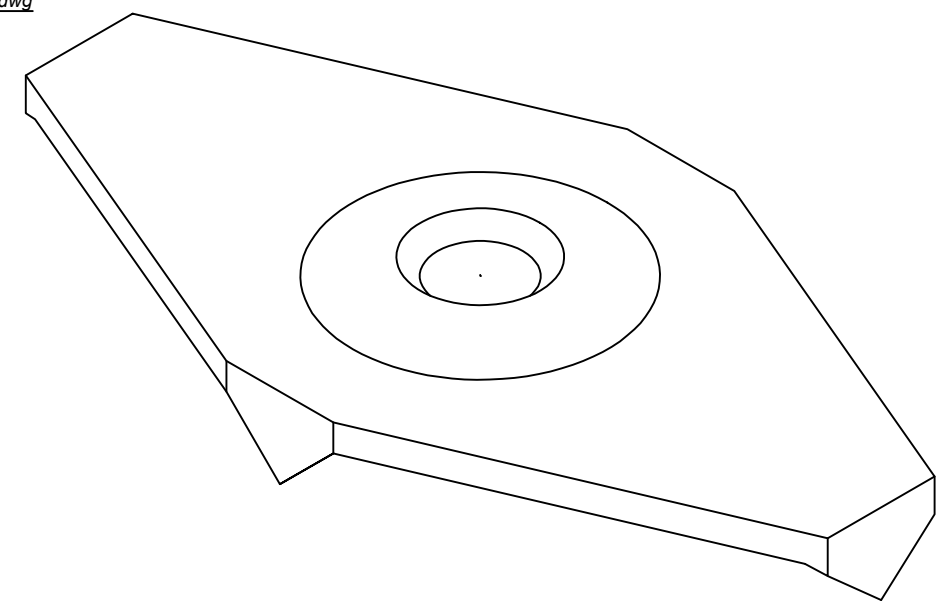
Drawing No  
**CON2500416-DR-0600-002**

Suitability  
**A1**

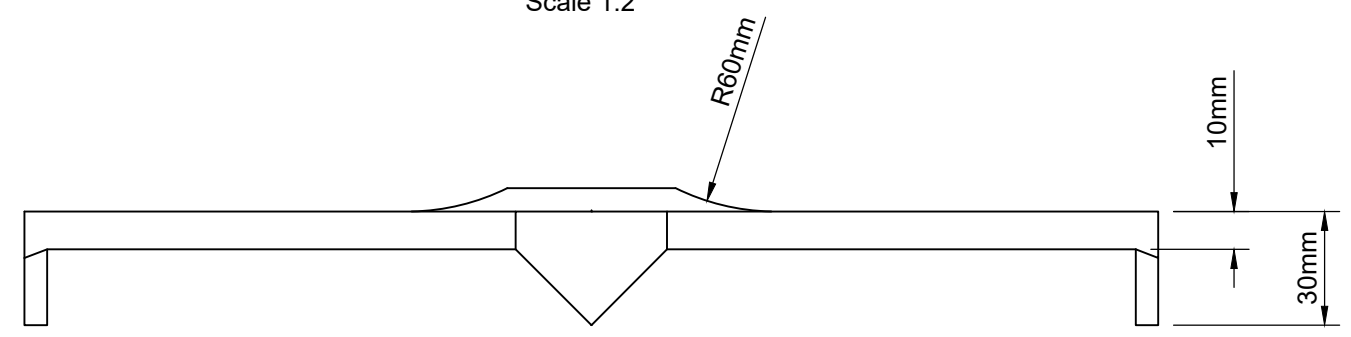
Rev  
**P03**



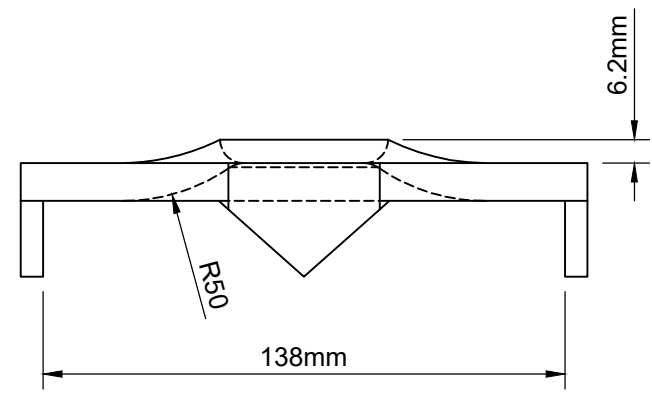
**Plan (Top)**  
Scale 1:2



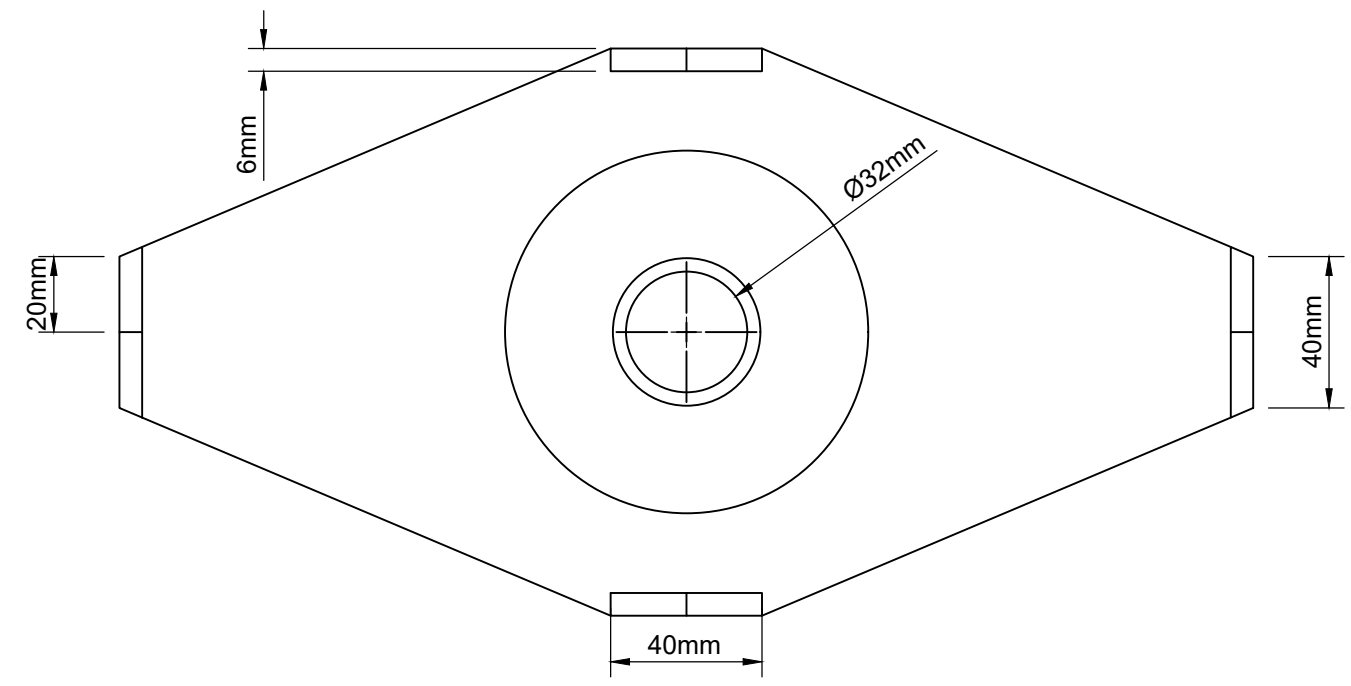
**3D View**  
NTS



**Side Elevation (Long End)**  
Scale 1:2



**Side Elevation (Short End)**  
Scale 1:2



**Underside**  
Scale 1:2

**Plan**  
Scale 1:2000

**NOTES**

1. All components shall be stainless steel grade AISI type 316L
2. Deburr and break all sharp edges

Rev	Rev details	Drwn	Chkd	Appd	Date

Designed:	SAJG	Date:	18/06/24
Drawn:	SAJG	Date:	18/06/24
Checked:	GB	Date:	14/08/24
Approved:	KO'C	Date:	14/08/24

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Project Name

**A98 Banff Bridge Scour Protection**

Drawing Title

**Claw Plate Detail**

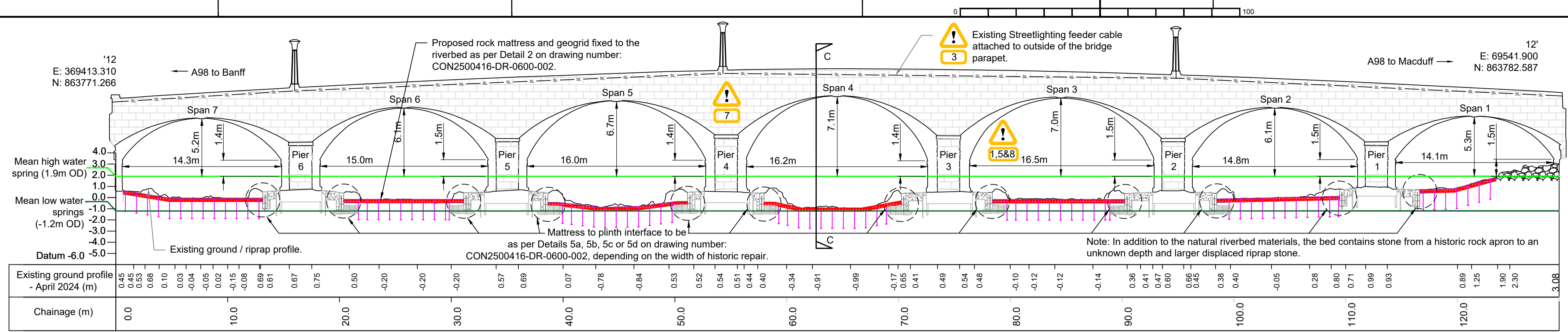
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Dimensions : mm

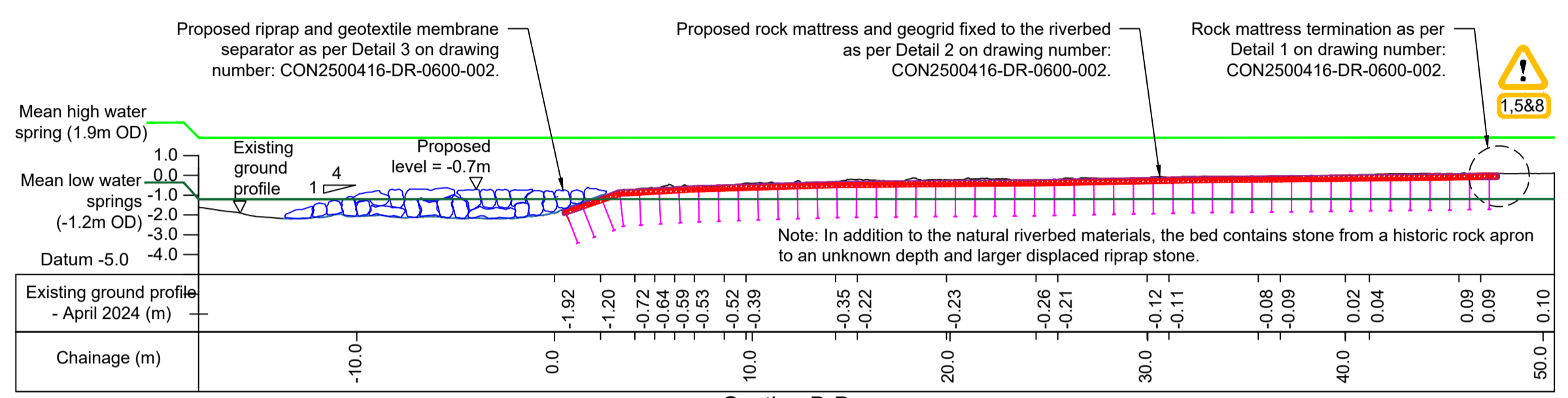
Drawing Status	Suitability
<b>FOR INFORMATION</b>	<b>S2</b>

Drawing No	Revision
<b>CON2500416-DR-0600-003</b>	<b>P01</b>

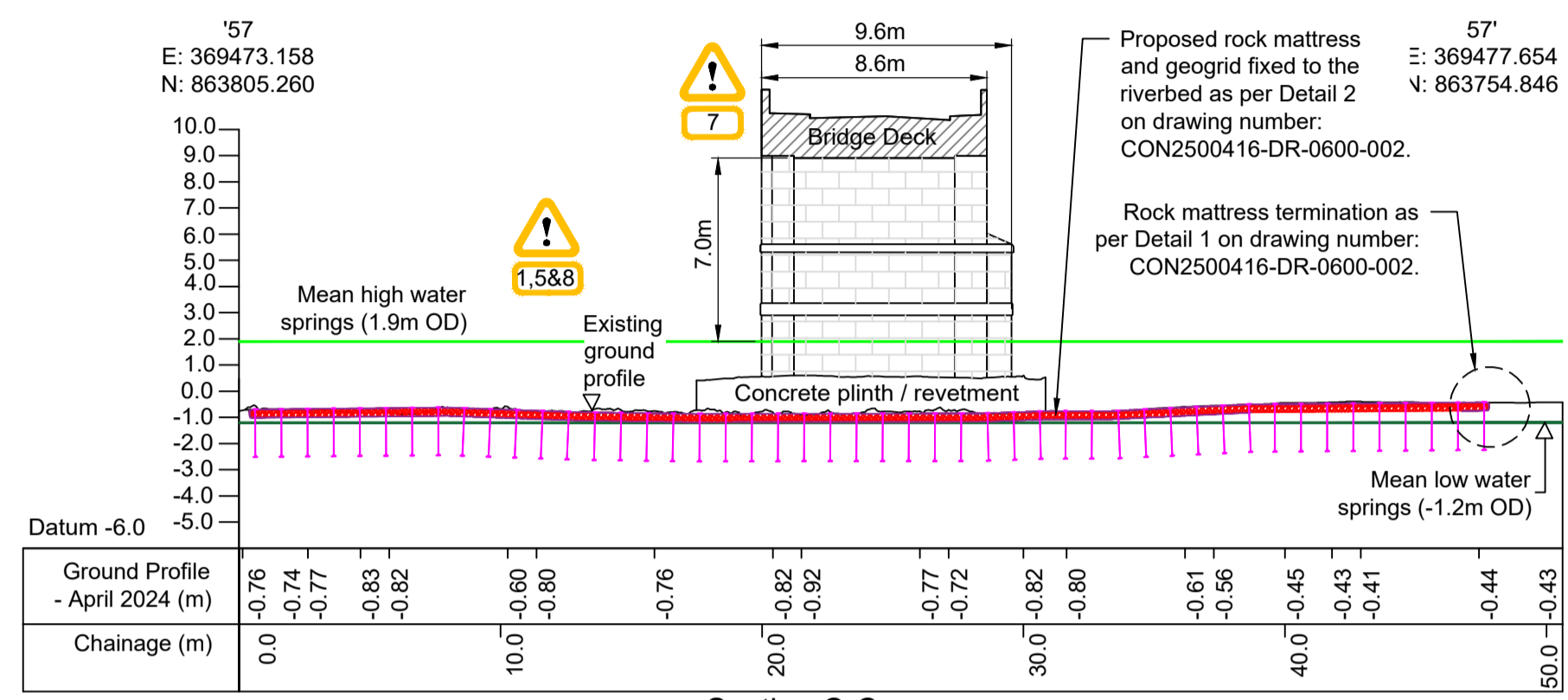




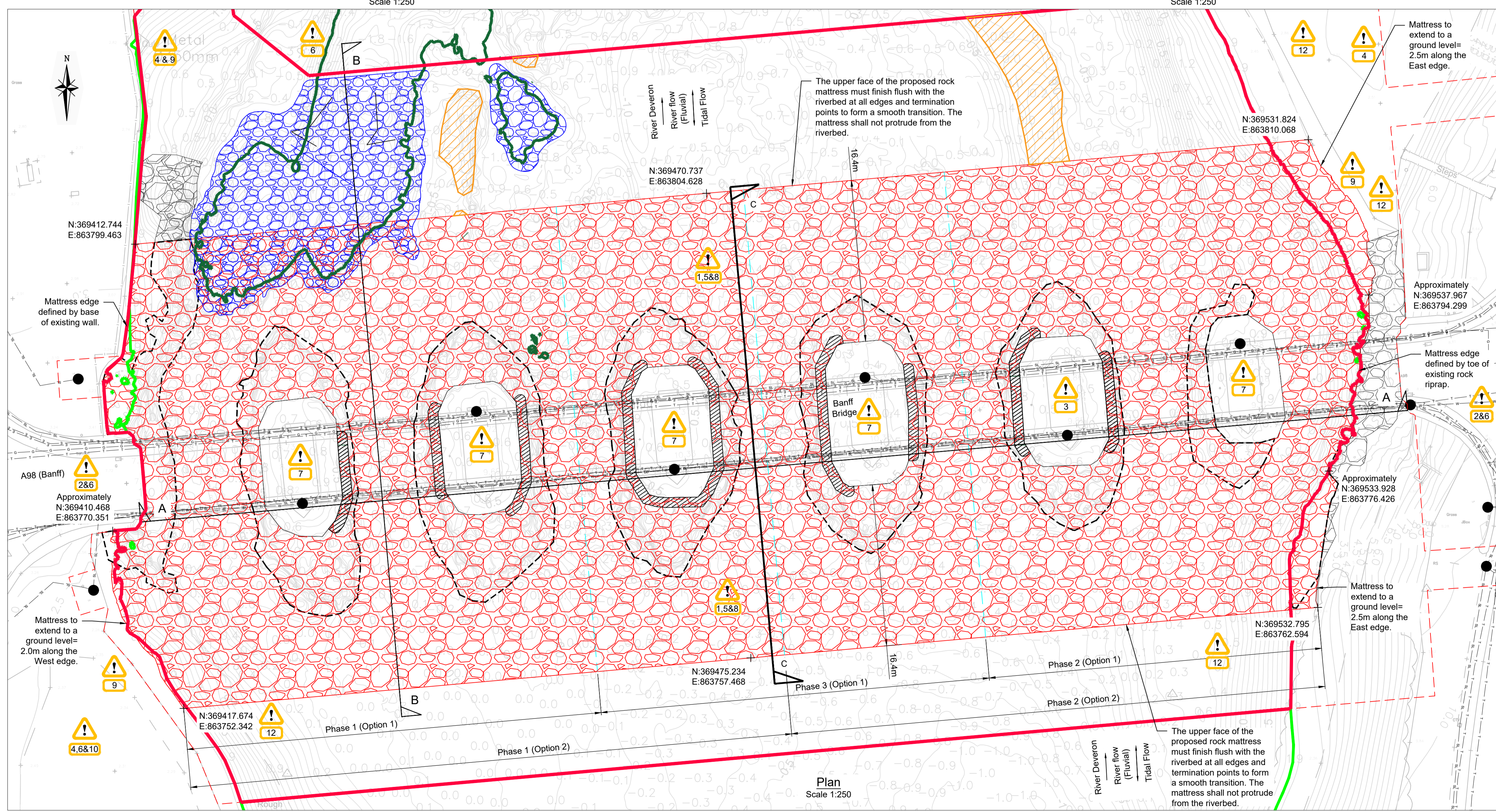
Section A-A  
Scale 1:250



Section B-B  
Scale 1:250



Section C-C  
Scale 1:250



Plan  
Scale 1:250

**RESIDUAL DESIGN HAZARDS**  
(The following information has been collected from Preconstruction Information and the Amey CDM Hazard Management Process.)

- Working adjacent to / within a watercourse with tidal and fluvial flows,
- Live traffic,
- Public utilities,
- Area vulnerable to flooding,
- Uneven ground profile,
- Interactions with the public,
- Further deterioration of vulnerable structure,
- Pollution of a Watercourse,
- Steep gradients,
- Working within the vicinity of a golf course,
- Unstable embankment,
- Invasive non-native species (INNS).

**NOTES**

- Do not scale from this drawing.
- All dimensions are in metres (m) unless stated otherwise.
- Drawing to be read in conjunction with drawing number: CON2500416-DR-0600-002 and all other tender documents.
- The rock mattress units must form a continuous mattress over the riverbed with no gaps between units permitted.
- The works must be phased to prevent scour occurring during the works and to ensure safe unrestricted passage for fish through the entirety on the works.
- Once installed, the mattresses must not be trafficked by plant.
- Any undercutting of the existing pier plinths shall be repaired in accordance with Detail 6 on drawing number: CON2500416-DR-0600-002.
- The Principal Contractor must ensure appropriate biosecurity and pollution mitigation measures are in place for the entirety on the works.
- The upper face of the proposed rock mattress must finish flush with the riverbed at all edges and termination points to form a smooth transition. The mattress shall not protrude from the riverbed.
- The Works shall be sequenced to avoid works in spans 3, 4 and 5 during the period of May to July where practicable. Works within this period shall be agreed with relevant stakeholders. See indicative construction sequence drawing numbers: CON2500416-DR-0100-053 and CON2500416-DR-0100-054 for additional information.
- Giant Hogweed, Three Cornered Garlic, White Butterbur and Japanese Rose are present within / in close proximity of the site. Information of the Invasive non-native species (INNS) shall be found in document EC142262A98 Banff Bridge Protected, Notable and Invasive Species Report. The report must be read in conjunction with all drawings.
- Areas of the fish pool out with the extents of the new mattress removed / modified during the works shall be reinstated to a similar embedment depth and to match the pre-works extents shown in plan. The fish pool shall be reinstated using 700mm to 900mm diameter riprap stone, removed during the site clearance to the Engineer for the works satisfaction. All stone shall be installed to be interlocking.
- Biosecurity measure shall be implemented.

**KEY**

- Extent of Site below Mean high water springs (MHWS) = 8720m<sup>2</sup>
  - Full extents of Site Boundary
  - Mean high water springs (MHWS)
  - Mean low water springs (MLWS)
  - Existing ground level
  - Existing ground contours
  - Approximate extent of historic undercutting repair detail as shown in Detail E1 on drawing number: CON2500416-DR-0100-004.
  - Existing riprap to remain in place
  - Extent of existing fish passage pool created from rocks. Areas out with the extents of the new mattress removed / modified during the works shall be reinstated as per Note 12.
  - Area to be excavated to a depth of 300mm for the installation of the proposed 300mm thick continuous rock mattress consisting of 3 mm synthetic polyethylene nets filled with 40mm to 75mm stone, tethered together with no gaps permitted
  - Proposed phasing extents
  - Approximate Outline of riprap to be removed
  - Proposed riprap formed using site won stone over 900mm diameter
- Public Utilities**
- G Gas main
  - E Electricity underground
  - OE Electricity overhead
  - SC Streetlighting column / pillar
  - SL Streetlighting cable
  - F Pumped rising main sewer (foul)
  - C Combined sewer
  - T Fiber optic / Telecom underground
  - OT Telecom overhead
  - W Water main

Rev	Revision details	Drwn	Chkd	Appd	Date
Designed:	SAJG				Date: 23/05/24
Drawn:	SAJG				Date: 09/10/24
Checked:	EK				Date: 09/10/24
Approved:	AH				Date: 09/10/24

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Client

Project Name  
**A98 Banff Bridge Scour Protection**

Drawing Title  
**Marine Licence - Proposed General Arrangement**

Original Drawing Size : A1	Scale : As Shown
Dimensions : m	

Drawing Status  
**FOR INFORMATION**

Suitability  
S2

Drawing No  
**CON2500416-DR-0600-050**

Rev  
P01