

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following:

	N/A
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	N/A
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	N/A
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NOTES:

1. THE PURPOSE OF THIS DRAWING IS TO PRESENT THE PROPOSED GENERAL ARRANGEMENT OF THE SCOUR PROTECTION WORKS AT UB 105/017 SAWMILL STREAM FOR MARINE LICENCE APPROVAL..
2. THESE DO NOT COMPRISE DETAILED DESIGN DRAWINGS.
3. DO NOT SCALE FROM THESE DRAWINGS.
4. DIMENSIONS ARE SHOWN IN METERS UNLESS STATED OTHERWISE.


Rev.	Date	Description	By	Chk'd	App'd
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Drawing Status	
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# WORK IN PROGRESS

Suitability

SO

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Client
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Project Title
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LEVENMOUTH BRANCH

Drawing Title
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SAWMILL STREAM  
SCOUR PROTECTION WORKS  
GENERAL ARRANGEMENT  
PLAN

Scale 1:100	Designed MG	Drawn BJH	Checked MG	Authorised --
Original Size A1	Date 22/03/22	Date 22/03/22	Date 22/03/22	Date --/--

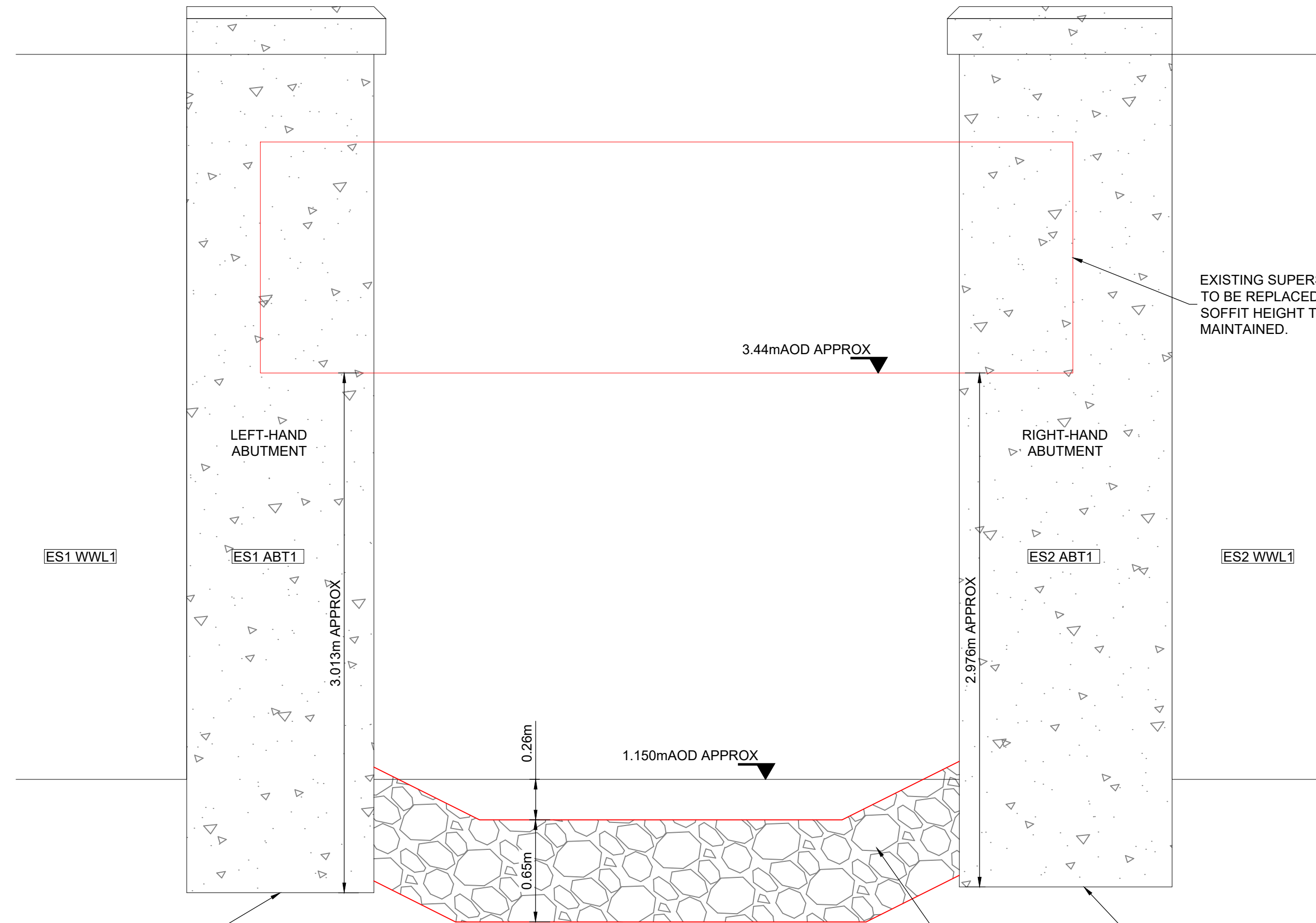
Drawing Number	Revision
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161831-ATK-SK-XX-0001

P01



1 : 100



1 : 25

## SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following:

## CONSTRUCTION

N/A

## MAINTENANCE/CLEANING

N/A

## DECOMMISSIONING/DEMOLITION

N/A

It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement

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P01	22.03.22	FOR INFORMATION	BJH	MG	
Rev.	Date	Description	By	Chk'd	App'd

### Drawing Status

## WORK IN PROGRESS

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Client

Project Title

## LEVENMOUTH BRANCH

Drawing Title

SAWMILL STREAM  
SCOUR PROTECTION WORKS  
GENERAL ARRANGEMENT  
SECTIONS

Drawing Number	Revision
161831-ATK-SK-XX-0002	P01

## **Indicative Method Statement, Levenmouth Reconnected sawmill Stream**

### **General**

- All operatives will receive the site safety induction and sign the site safety induction log
- All personnel on the site will receive a task briefing to cover the methodology and health, safety and environmental risks associated with the activities.
- A daily white board briefing will be carried out each day which all site personnel will attend. Any new hazards will be identified at this point.
- A point of work risk assessment and daily briefing will be carried out each day which all operatives will sign to show they have understood the methodology and hazards. Any new hazards will be identified at this point.
- All suppliers to be notified of Traffic Management plan prior to commencement of works.
- A dilapidation photo survey shall be carried out before any works commence.
- All refuelling shall occur in a dedicated area at least 10m away from the watercourse
- All heavy plant operating in or within 10m of the watercourse will run using hydraulic Bio oil.
- All static plant shall be sat over a drip tray which can contain 110% of the fuel tank capacity. This plant shall be positioned at least 10m away from the water course
- All waste shall be managed in accordance with the Site Waste Management Plan.
- Clean, check and dry process to be in place and briefed to all personnel and all plant to be cleaned down before coming to site.
- Nesting bird check to be carried out prior to works commencing and daily.
- All works shall comply with the requirements of any ecology reports, Marine Scotland licence, and IMK requirements, e.g. 2 prior week's notification for overpumping.

### ***IMPORTANT INFORMATION REGARDING TIDAL WORKING***

- No lone working is permitted at any time in or around the water course.
- Works are in a tidal area and therefore works will be planned accordingly. Any machine works to be carried out with machine within the MHWS footprint are only permitted 3 hours either side of low tide. At all other times, it is expected to be high tide and therefore no machine works are permitted Site supervisors should familiarise themselves with an approved Tide Times information service. These times will dictate working hours and limitations.

Edge protection to be installed for all sections with unprotected slopes adjacent to the work site. This will be temporary installed wooden posts and hand rail, all above MHWS.

## De-vegetation

- As part of the works there is a requirement to remove trees and vegetation to allow access and along the working area.
- This work will be carried out by certified operatives.
- Where vegetation clearance (during bird nesting season) is required a nesting bird check will be carried out prior to the removal of trees and bushes. This will be carried out by a qualified ecologist or trained site personnel.
- A bat specialist will check the trees in this area for bats/bat roost potential.
- The AMCO supervisor will mark out the extent of the site to be cleared.
- All tree felling work will be carried out by NPTC/Lantra certificated operatives.
- Safety exclusion zones will be set using barrier fencing.
- Full PPE including helmet with visor and ear defenders, boots and gloves to be worn at all times.
- Tree removal will commence at a location agreed location with chainsaw certificated operatives who will directionally cut trees to stump level away from themselves using chainsaws within the site boundary.
- If required, all vegetation and small trees will be processed using chippers. The chips will be discharged to an allocated area and levelled.
- The personnel carrying out these duties must be a trained and competent persons.
- All cut vegetation will be stored, if required, prior to chipping and/or disposal, at least 10m from the water course.

## Installation of Silt Curtains

Prior to works to install the temporary dam, silt curtains are to be installed downstream of the works.

- 3 No. silt curtains to be installed in a slalom type distribution, such that fish will still be able to navigate up or down the water course.
- No.1 silt curtain to be installed immediately downstream of the work site and to the work site side of the water course.
- No. 2 silt curtain to be installed to the opposite side of the water course, at least 10m further downstream from silt curtain No. 1
- No. 3 silt curtain to be installed a further 10m downstream from silt curtain 2 but on the same side of silt curtain 1, thus at least 20m directly downstream from silt curtain 1.



### Dam installation

Once the silt curtains are installed and sufficient de-vegetation has been completed to allow safe access to the water course the installation of the temporary dam may commence.

- Approved sub-contractors will install aluminium A-frame sections that are linked together to form the basis of the temporary dam.
- These will be placed far enough out into the water course to allow the creation of a dry working area large enough for the safe installation of the rip rap.
- The dam will extend across the width of the water course, with a similar dam to the upstream area to provide a dry working area.
- Once enough A-frame sections have been installed, the dam subcontractor will commence fixing the PVC dam sheet to the A-frame. The bottom sections of the PVC sheet will be held in place by sand bags, filled with clean washed gravel.
- The installation will continue until the required area of damming is completed.
- 1No. 6 inch pump will be used to overpump water from the area between dams to create the dry working area
- 1No. 6 inch pump will be used to overpump water from the water course upstream of the upper dam, this pump inlet MUST have terram or netting around the inlet to prevent any inadvertent entry by fish that may be upstream, if possible a flume will be used as opposed to the pump to redirect the water around the work area and to the downstream section of the stream and on into the River Leven.

### Alternative dam

- All details of overpumping/flume as above
- Excavator top place 1 tonne bags on top of visqueen sheeting
- 4 bags for each dam (total of eight covering upstream and downstream dam)
- Visqueen sheeting wrapped up and over 1 tonne bags to provide an adequate seal

### Fish rescue & Overpumping

On completion of the dam installation and prior to any works commencing a fish rescue is to be carried out by Forth Consulting. Once they are satisfied that there are no further fish within the dammed area then overpumping may commence.

- 2No. 6 inch pumps will be used, one to overpump from the upstream section of the water course and one for creating the dry working area.

- Pumps to be fitted with terram or suitable netting as a precaution against any fish that may have been missed during the rescue being drawn into the pump and for those that may remain in the upstream section of the water course.
- All pumping to be through a silt-sock at all times and discharge on to sediments positioned in vegetation, where possible, to minimise any silt production.
- Silt curtains to be installed downstream of pump outlet

The rip rap will be installed in accordance with BS EN 13383-1: 2022 and will include a filter layer installed beneath the rip rap, needle punched non-woven geotextile separator membrane, as indicated in permanent materials section 6.

- Marine Licence to be issued prior to AMCOGiffen entering the work area.
- Permit to work near the water to be issued prior to working.
- All permit requirements to be adhered to for duration of the below activity.
- A water monitoring kit shall be obtained from the AMCO Environmental Department and a sample shall be taken and recorded (photographed) by the Site Supervisor.
- Local emergency services, including the coastguard and lifeboat will be advised of the operations.
- All operatives must wear lifejacket and be fully briefed on activities risk and control measures along with the rescue plan.
- Upon completion of the main works, the above methods will be removed in opposite sequence with extra care taken to ensure no sediment is disturbed.
- Visual Inspections will be carried out before, during and after all proposed works and any issues highlighted to AMCO Site Management and works suspended.
- On completion of de-vegetation excavation of stream bed surface material will be undertaken
- Stream bed removal to be completed in layers and the layers stored individually at least 10m from the water course and bunded
- The area will then be prepared for the geotextile separator membrane to be installed.
- This will be installed and held in place by locally placed individual pieces of rip rap.
- Once the geotextile has been satisfactorily positioned and held in place, installation of the rip rap may commence.
- All work will be carried out under the control of a permit to work on or near water and Marine licence.

- Rip rap will be loaded into dumper and transported to the work site. It will be stockpiled in this location for placement by excavator.
- All plant working within the vicinity of the MHWS will be fitted with bio oil.
- Tidal monitoring will be carried out throughout the duration of the task.
- All plant will be fuelled within this site compound via mobile bowser (No fuelled stored on site – To be brought in as and when required). A spill kit facility will be available at all times. The machines will be stored at site compound at the beach access point overnight or out of site hours.
- An additional Welfare van will be at the main point works by agreement to provide facilities closer to the point of work.
- **AT ALL TIMES DURING THE EXECUTION OF THE WORKS DUE COGNISANCE WILL BE TAKEN WITH RESPECT TO PREVAILING WEATHER CONDITIONS TIDE TIMES AND HEIGHTS**
- A suitably sized excavator will be located at the point and tipping point of the imported rip rap.
- The imported rip rap will be delivered to site and placed ready for loading by the excavator in 9t dumpers.
- Rip rap stone that meets the specification requirements will be delivered and stockpiled within the site compound.
- Rip rap will be visually inspected to check minimum, maximum and average stone sizes.
- A banksman will always be in attendance whilst the vehicles are reversing and to also direct site personnel and site visitors, whilst the works are being undertaken.
- Two number dumpers (Wheeled) will transport the imported rip rap, above the mean high tide point to the point of works. The rip rap will be tipped as directed by the second excavator located at the main point of works (Sawmill Stream). The site speed limit will be 5 mph.
- If required a second excavator will be located at the point of works.
- The rip rap will be tipped into the prepared area and shaped by excavator, followed by the reinstating of locally excavated material over the placed rock.
- This will be repeated over the area required, working from the furthest end back toward the access point over the required area.
- The previously excavated stream bed will be replaced on top of the rip rap in the same layers as it was removed
- Following an inspection by the Site Supervisor or Agent and /or representative and an agreement the work has been satisfactorily completed, demobilisation will commence.