

SAFETY HEALTH & ENVIRONMENTAL INFORMATION

In addition to the hazards/risks normally associated with the type of work detailed on this drawing, note the following risks and information.

Risks listed here are not exhaustive. Refer to Designer's Risk Assessment and pre-construction phase plan.

CONSTRUCTION

C1

Managing flow & stage levels in river

- Monitor flow levels & flood warnings.
- Check adequacy of cut-off & stability of cofferdams.

C2

Managing seepage flows

- Monitor seepage.
- Check stability of cut bank faces and assess permeability of formation material.
- Check adequacy of cut-off & stability of cofferdams.

C3

Risk of falls from height

- Check depth of excavations.
- Check adequate edge protection and access provision.

C4

Access Restrictions

- Check access weight & size restrictions at bridge crossings along access route to site.

C5

Interface with public & other site operations

- Check adequate warning signs and fencing in place.

C6

Services

- Check for services.

C7

Stability of Excavations & Structures

- Carry out inspection pits to check weir construction & depth to footings.
- Check temporary works & construction sequencing to maintaining structural integrity of weir and stability.
- Contractor to monitor surcharge loads on top of weir during construction.
- Contractor to propose any necessary stabilisation methods.

ENVIRONMENTAL

E1

Vegetation Clearance

- Contractor to check for nesting birds or bat roosts before clearance begins and to monitor throughout.
- Contractor to check for invasive species.
- Tree removal will be required. Any trees not being removed should be protected by physical barriers during vegetation clearance

E2

Invasive Species

- If encountered, these are to be removed as a controlled substance by a certified contractor.

For information relating to Use, Cleaning and Maintenance see the Health and Safety File.

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

NOTES:

1. DIMENSIONS:

- Are in millimetres unless otherwise stated.
- Marked thus (*) are approximate.
- All levels are in metres to Site Datum.

2. SPECIFICATION:

All works to be carried out in accordance with the Environment Agency Minimum Technical Requirements which shall be the Civil Engineering Specification for the Water Industry (CESWI).

3. Drawing Information

Site plans from topographical survey carried out by the Fishtek Consulting Ltd., June 2020. Contractor to check critical levels before setting out.

For Information Purposes only
Not for construction

P01	Detailed Design - For Comment	18/06/21
B03	Outline Design - Eel Pass - Width Update	16/04/21
B02	Outline Design - Eel Pass - For Comment	20/01/21
B01	Outline Design - Fish Pass Panel Approval	23/07/20
Issue	Description	Date

Detailed Design		
Scales	As shown	Current Issue Signatures
		Author A Frampton
Original Size	A1	Checker M.Lakin
Datum	N/A	Approver T.Coe
Grid	N/A	© Copyright reserved

Client

PROJECT

Mill Road, Stour - Eel Pass

TITLE



Site Location and Plan

Drawing No.	Project No.	Issue
100	02811	P01

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In addition to the hazards/risks normally associated with the type of work detailed on this drawing, note the following risks and information.

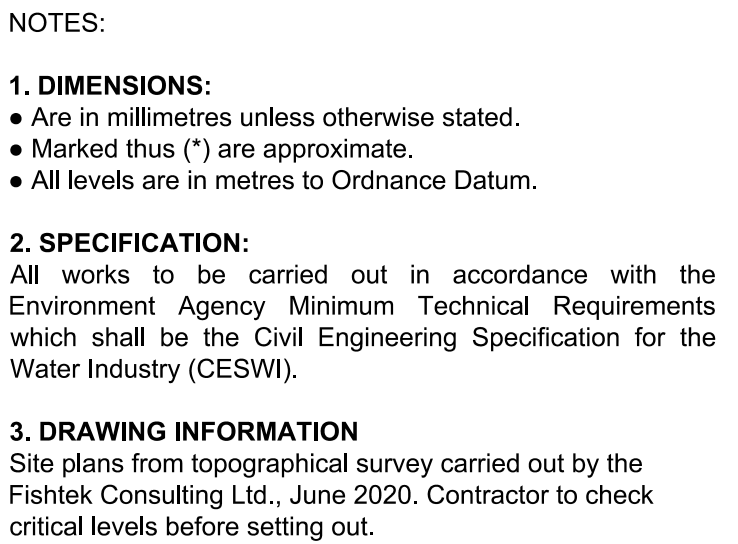
CONSTRUCTION

-  **Services**
 - Check for services.
 -  **Stability of Excavations & Structures**
 - Carry out inspection pits to check weir construction & depth to footings.
 - Check temporary works & construction sequencing to maintaining structural integrity of weir and stability.
 - Contractor to monitor surcharge loads on top of weir during construction.
 - Contractor to propose any necessary stabilisation methods.

ENVIRONMENTAL

- For information relating to Use, Cleaning and Maintenance see the Health and Safety File.

101 / 01 - Site Plan






4. NATURAL STONE
Rip-rap scour protection to comprise of natural hard stone with nominal density 2700kg/m^3 .

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Detailed Design

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Filename:

Client



PROJECT

Mill Road, Stour - Eel Pass

TITEL



General Arrangement Plan

Drawing No.	Project No.	Issue
101 -	02811	- P01

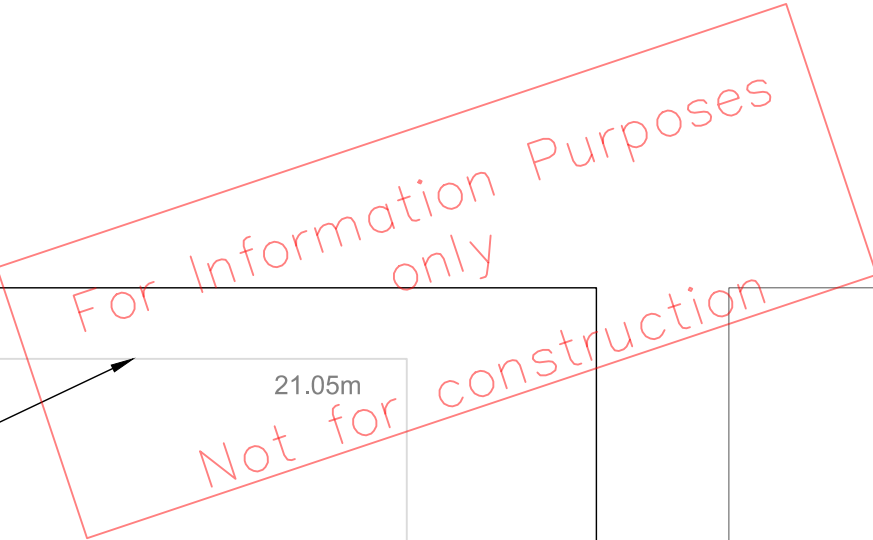
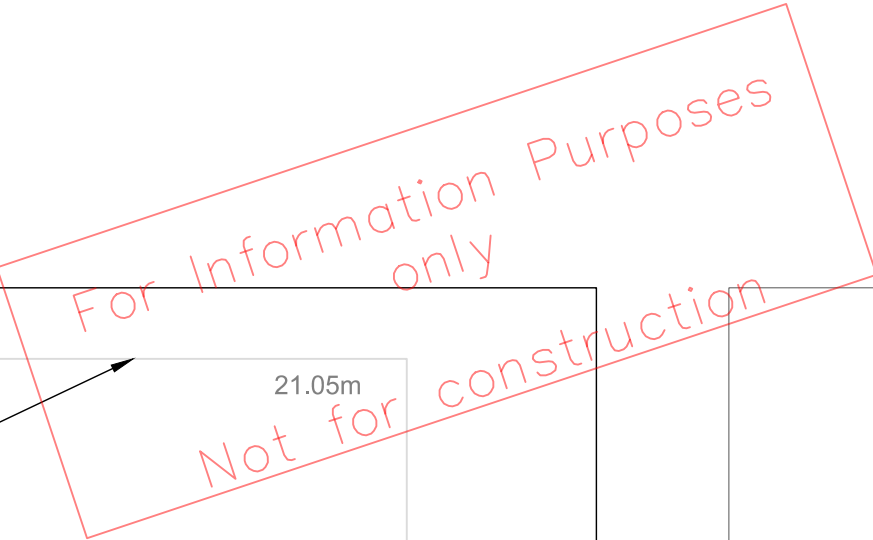
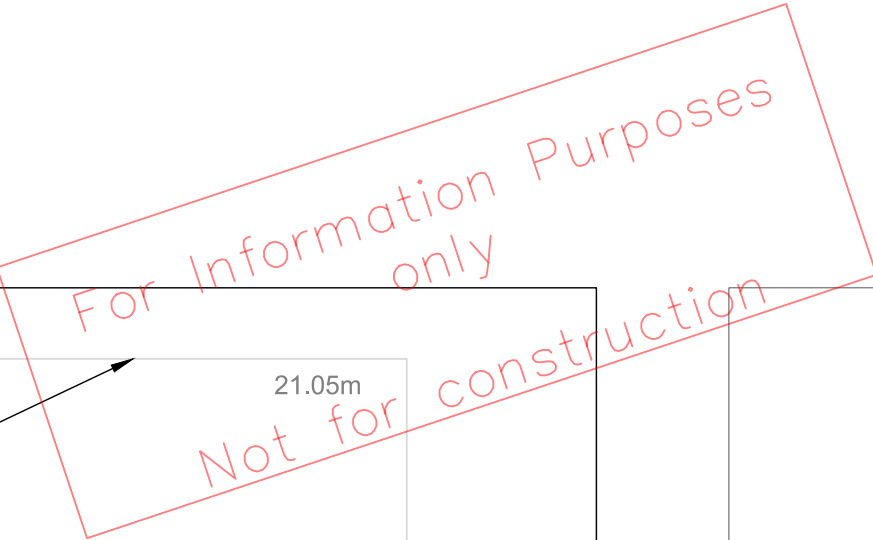
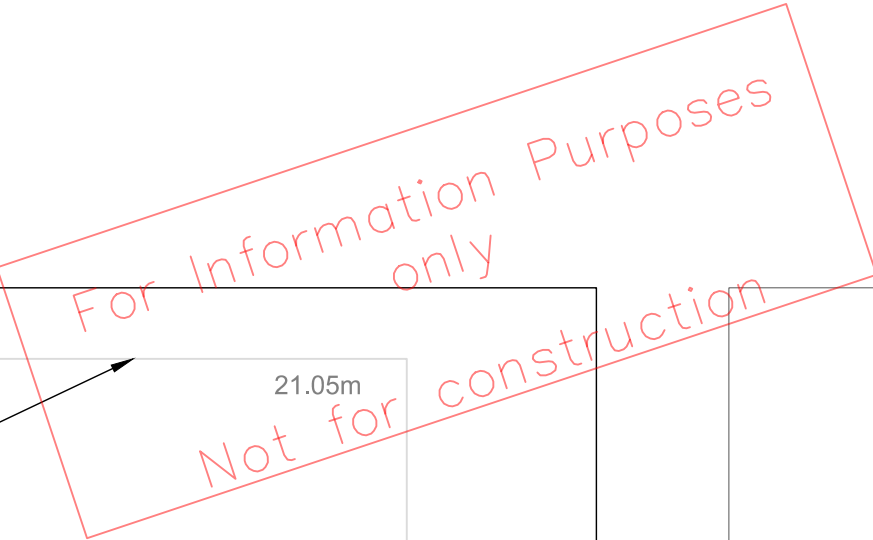
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CONSTRUCTION

C1 Managing flow & stage levels in river
- Monitor flow levels & flood warnings.

- ## ENVIRONMENTAL
- | | |
|---|---|
|  | <p>Vegetation Clearance</p> <ul style="list-style-type: none">- Contractor to check for nesting birds or bat roosts before clearance begins and to monitor throughout.- Contractor to check for invasive species.- Tree removal will be required. Any trees not being removed should be protected by physical barriers during vegetation clearance |
|  | <p>Invasive Species</p> <ul style="list-style-type: none">- If encountered, these are to be removed as a controlled substance by a certified contractor. |

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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CONSTRUCTION

C1 managing flow & stage levels in river

- Monitor flow levels & flood warnings.
- Check adequacy of cut-off & stability of cofferdams.

Risk of falls from height

- Check depth of excavations.
- Check adequate edge protection and access provision.

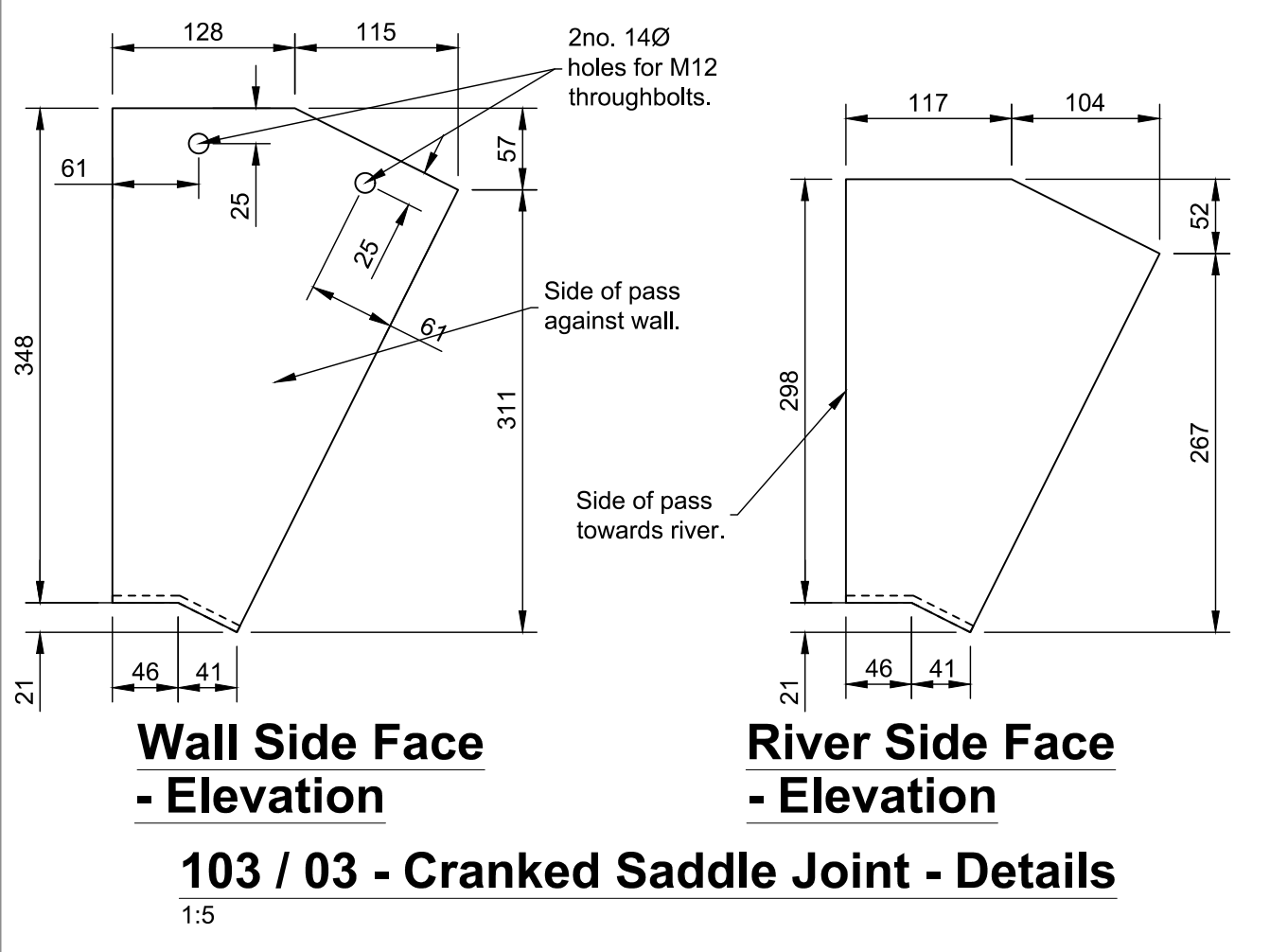
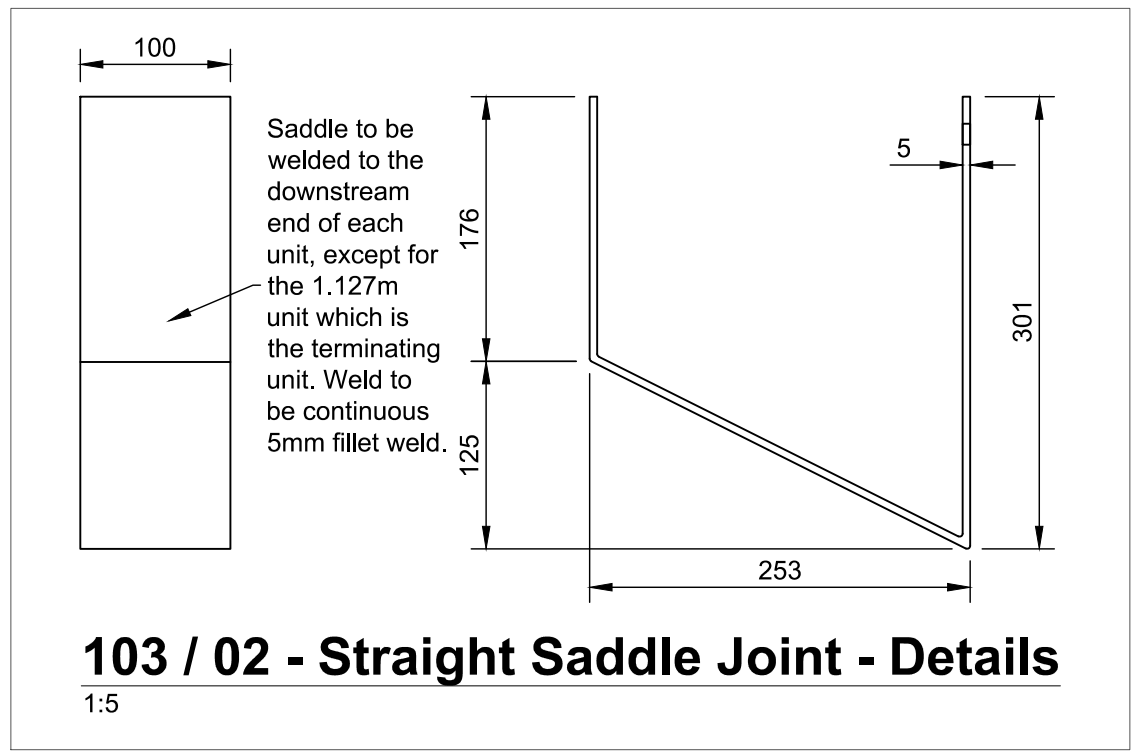
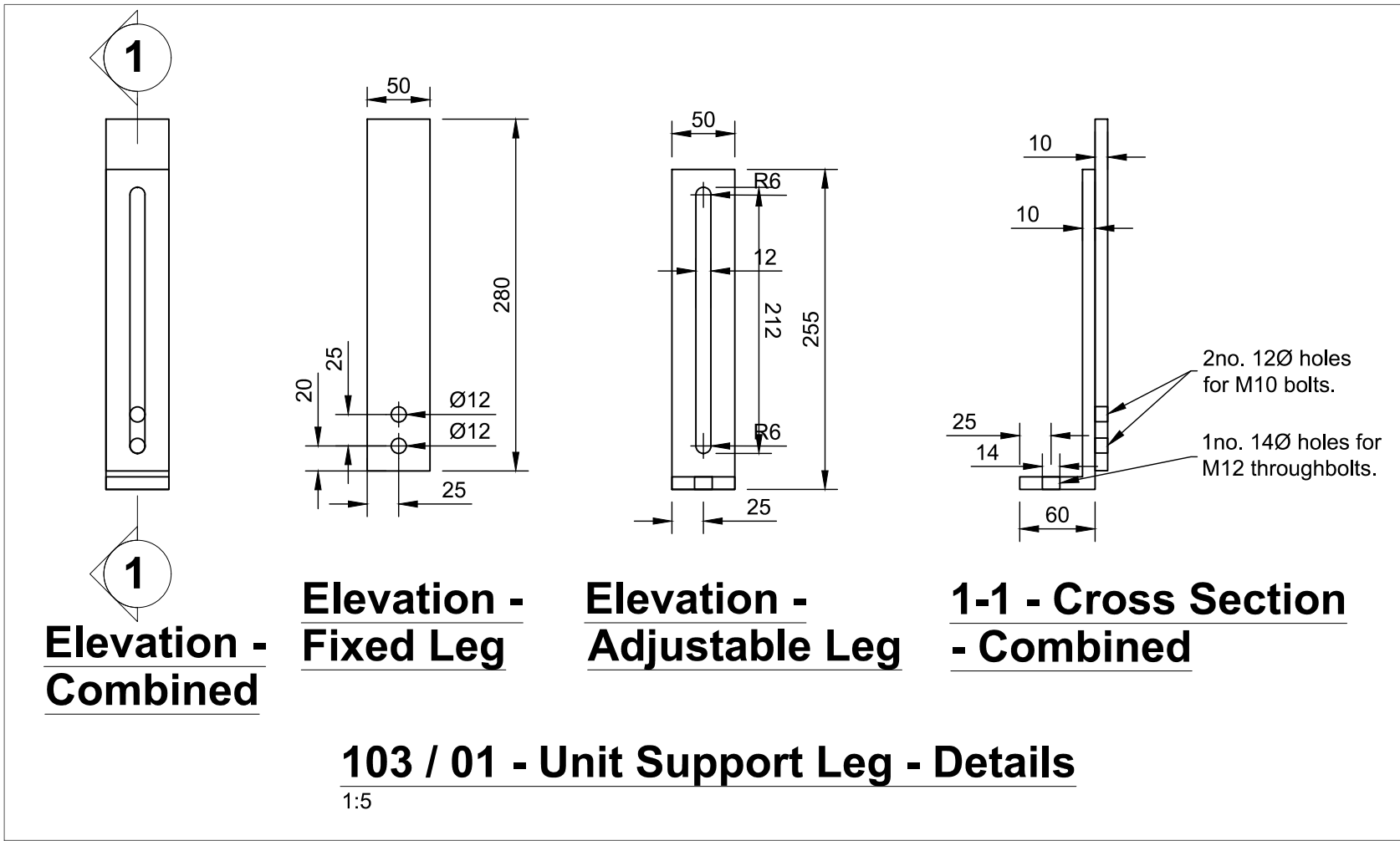
C5 **Interface with public & other site operations**
- Check adequate warning signs and fencing in place.

C7 **Stability of Excavations & Structures**
- Carry out inspection pits to check weir construction &

ENVIRONMENTAL

E2 Invasive Species
- If encountered, these are to be removed as a controlled substance by a certified contractor.

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NOTES:

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2. SPECIFICATION:

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3. ALUMINIUM:

All structural aluminium alloys to BS 8118.

All aluminium components to be Alloy 6082T6, or similar approved.

All aluminium welds to be 10mm fillet unless otherwise indicated. All welds to be continuous unless otherwise indicated.

4. BOLTS:

All stainless steel to BS9590.

All fasteners to be stainless steel A2 (304) self screws, M12 unless otherwise indicated in 14mm dia holes.

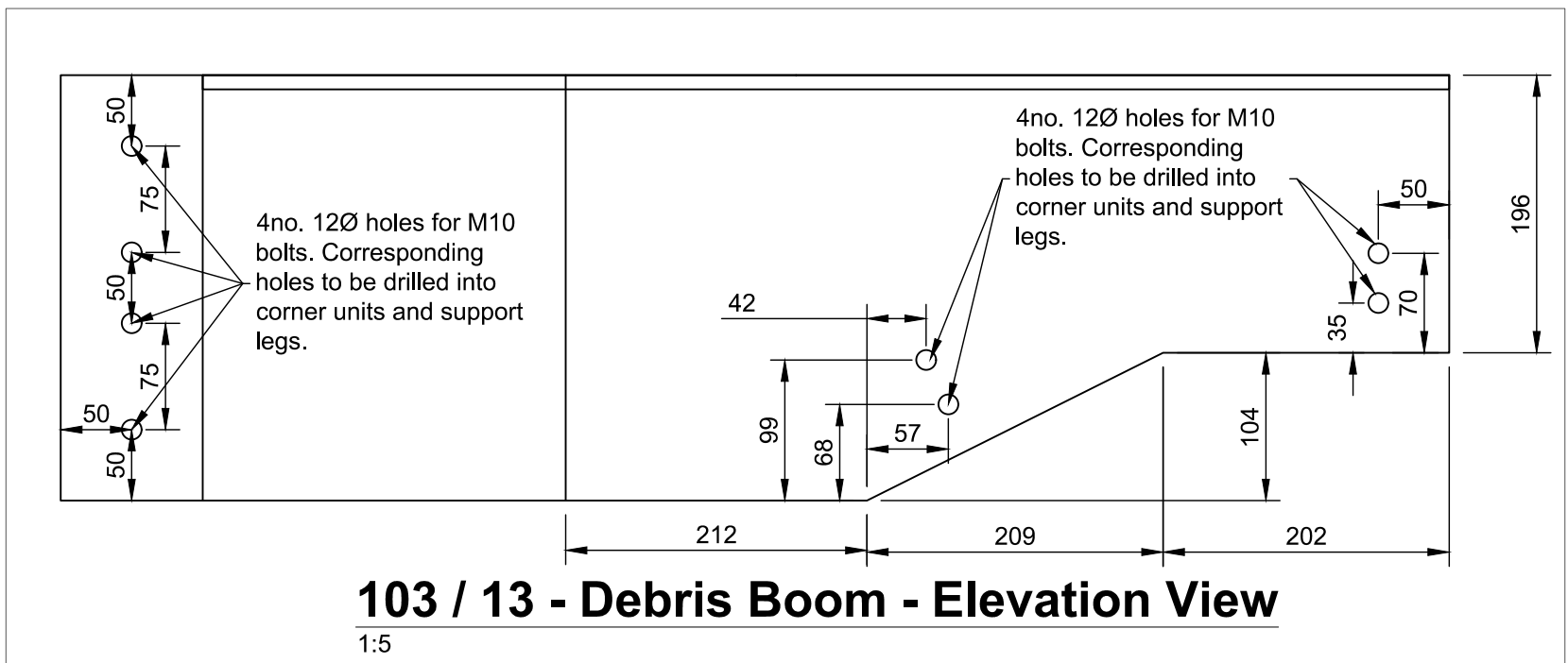
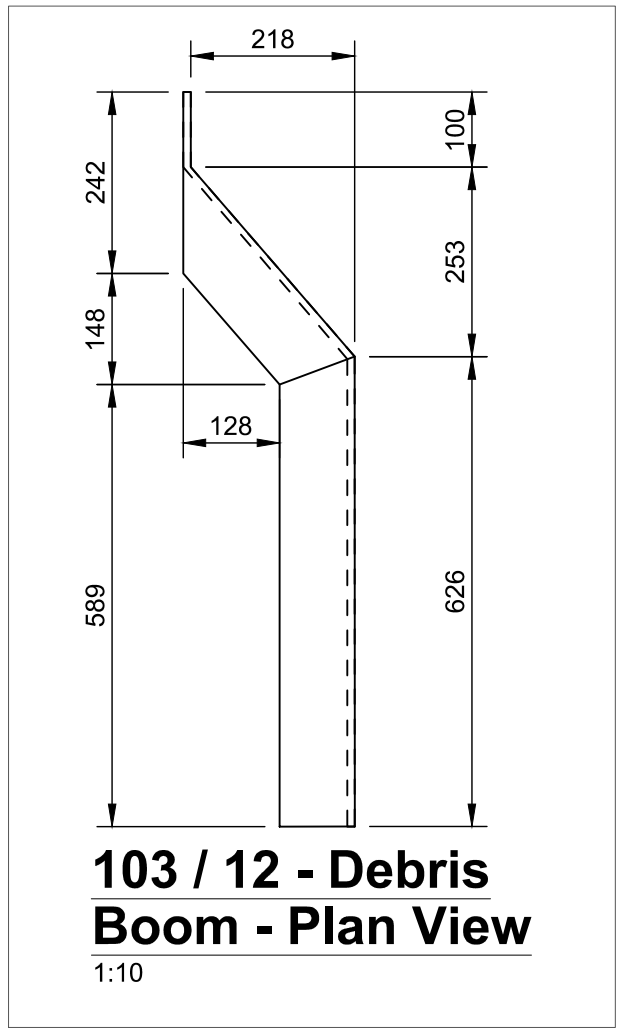
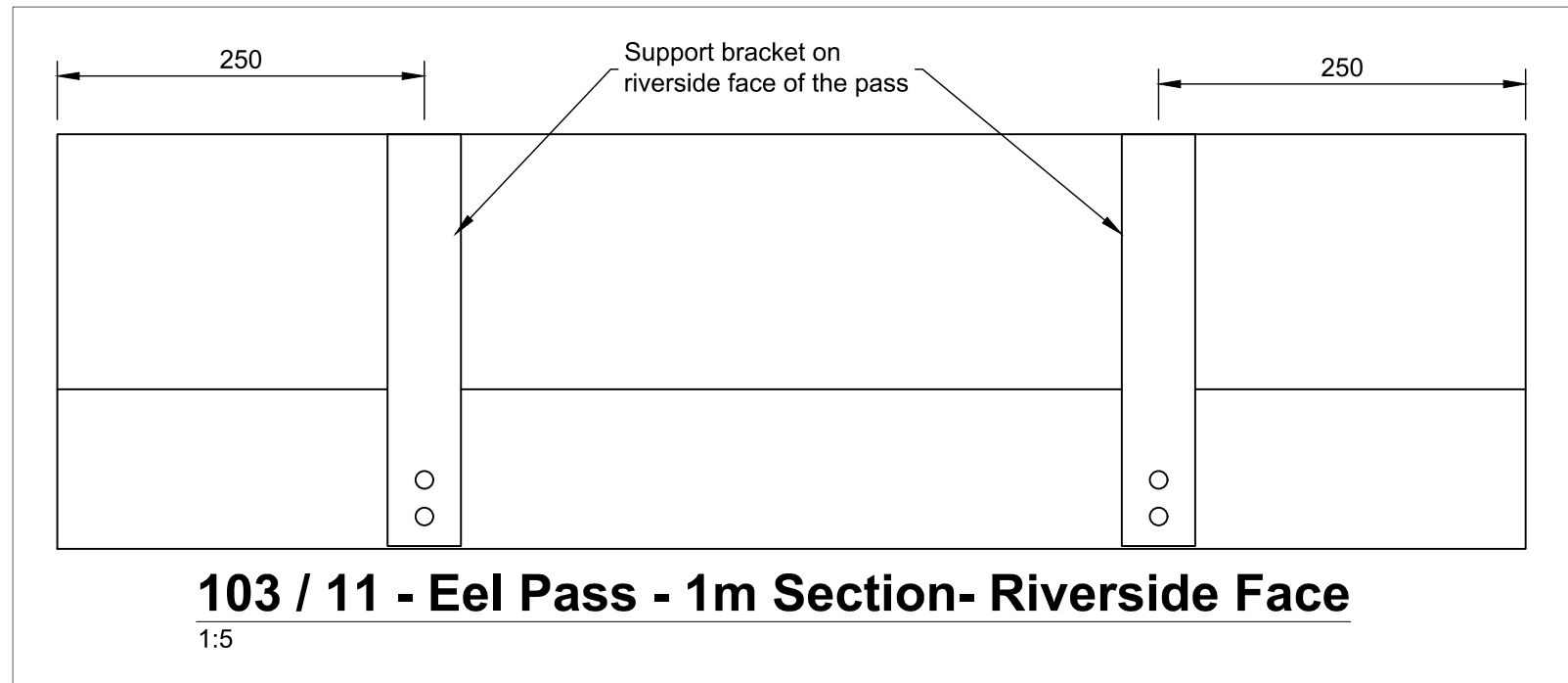
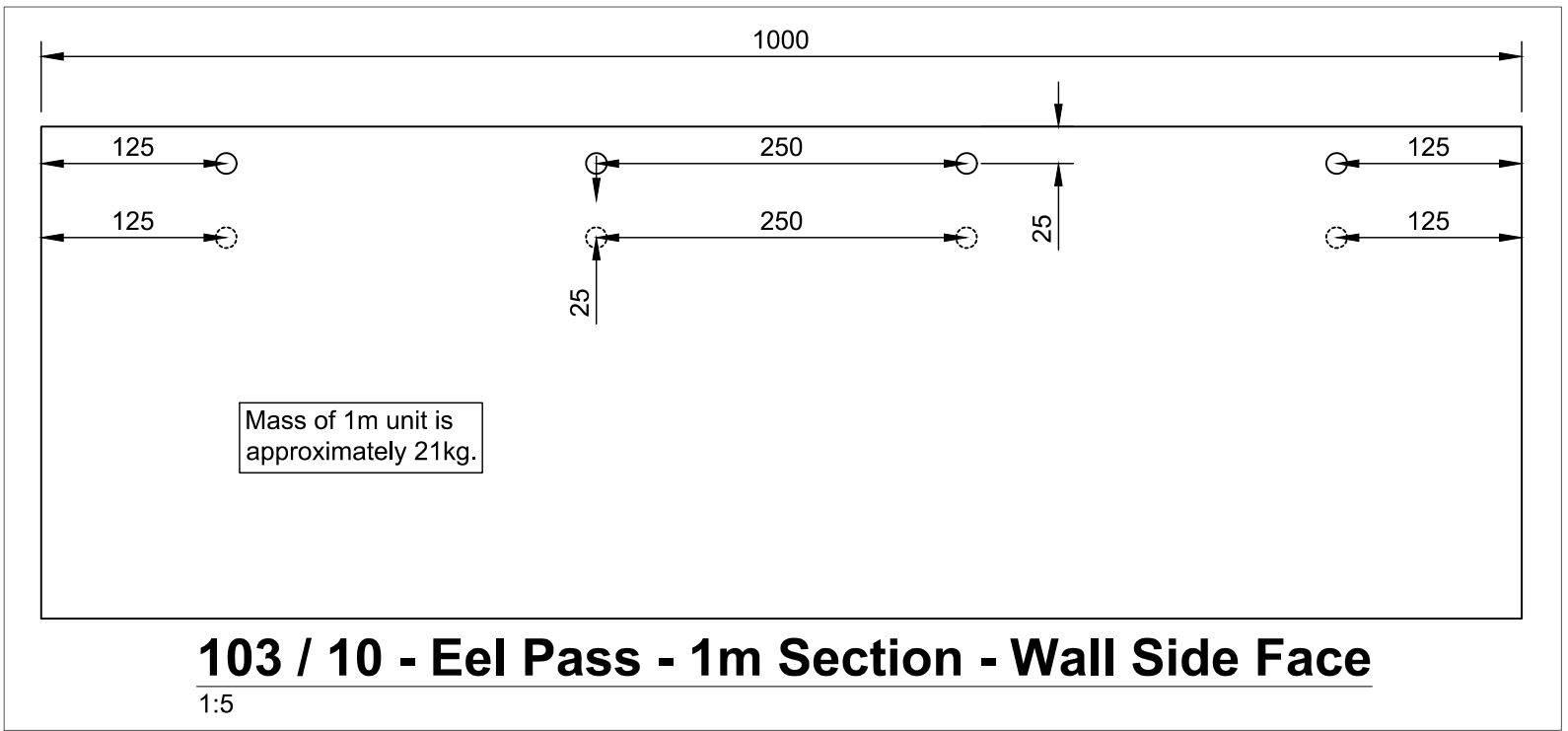
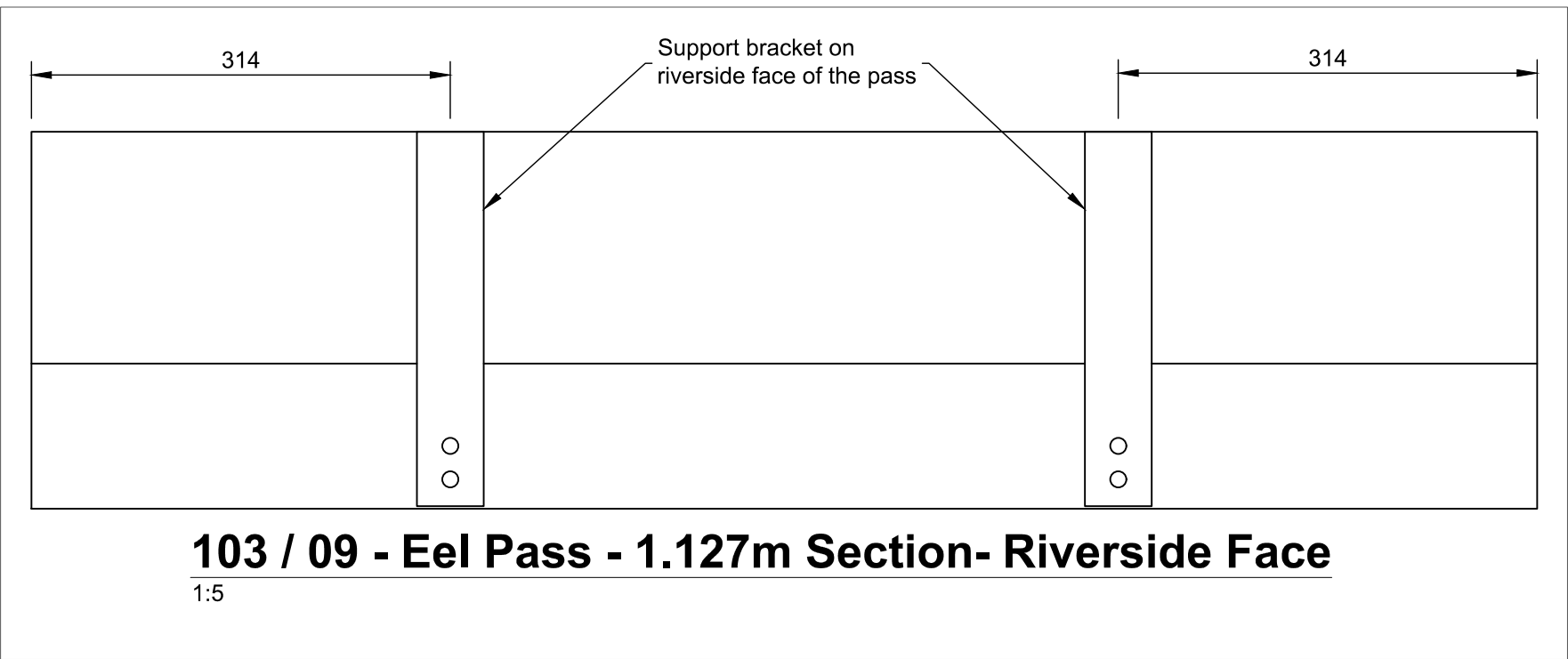
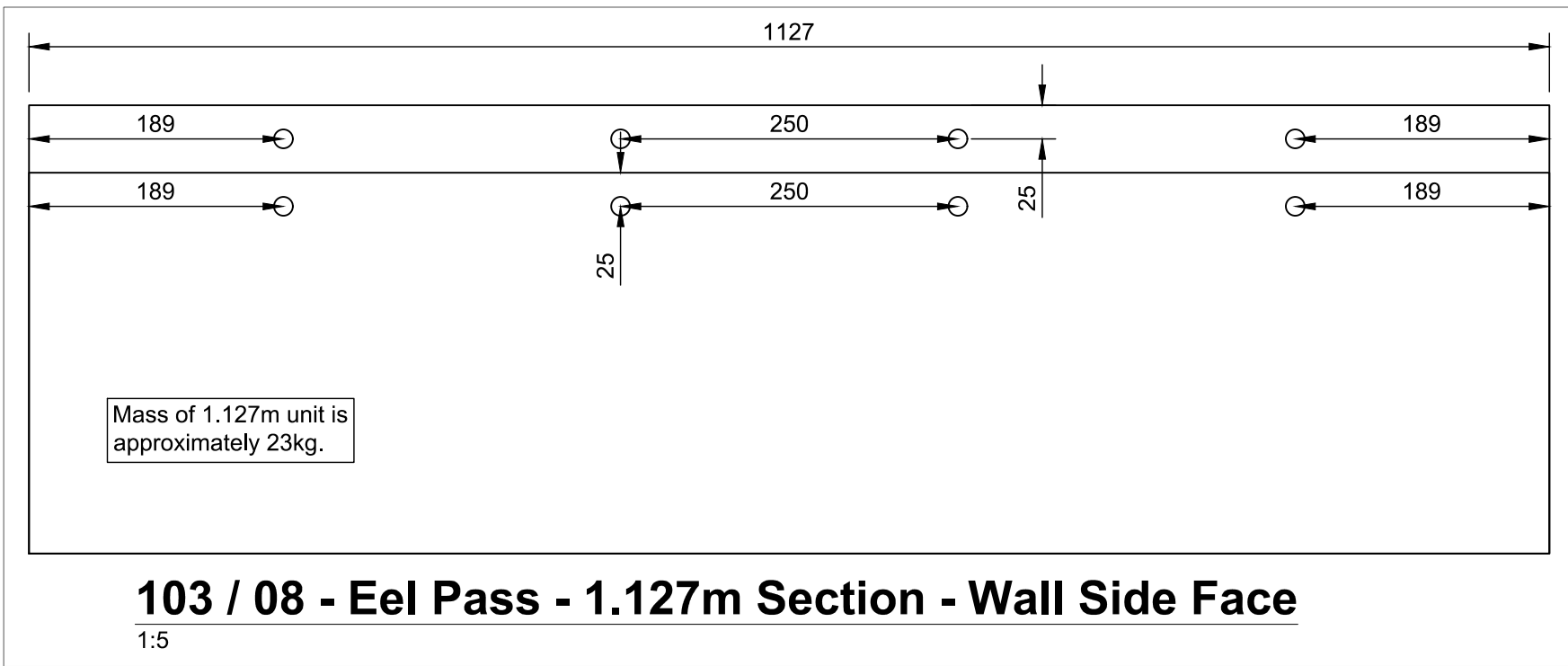
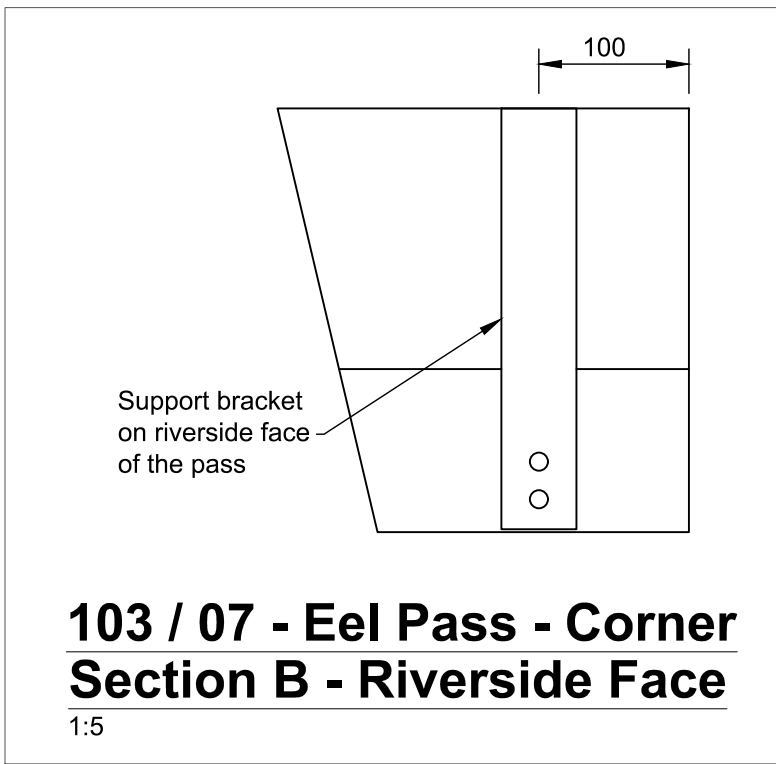
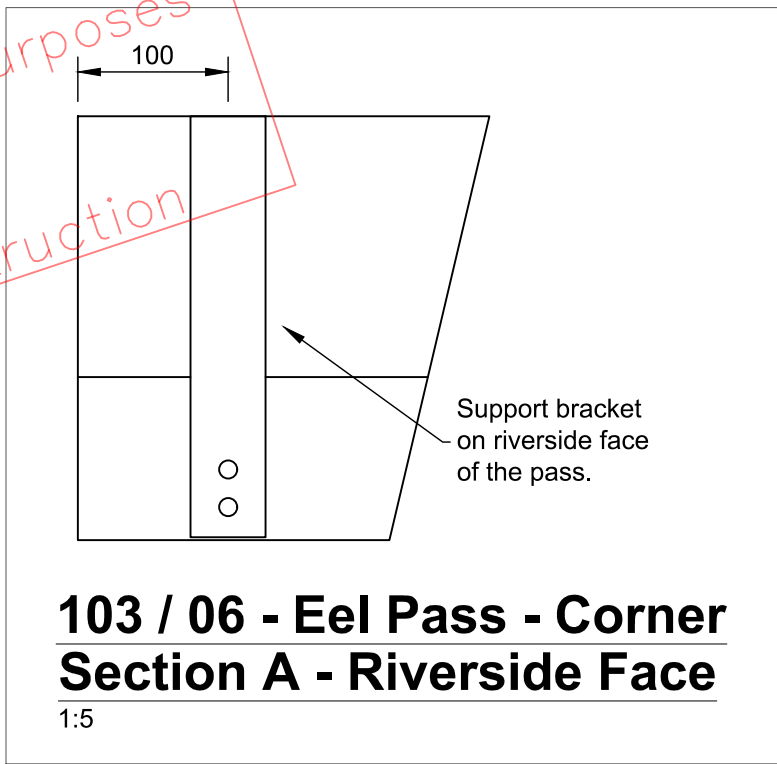
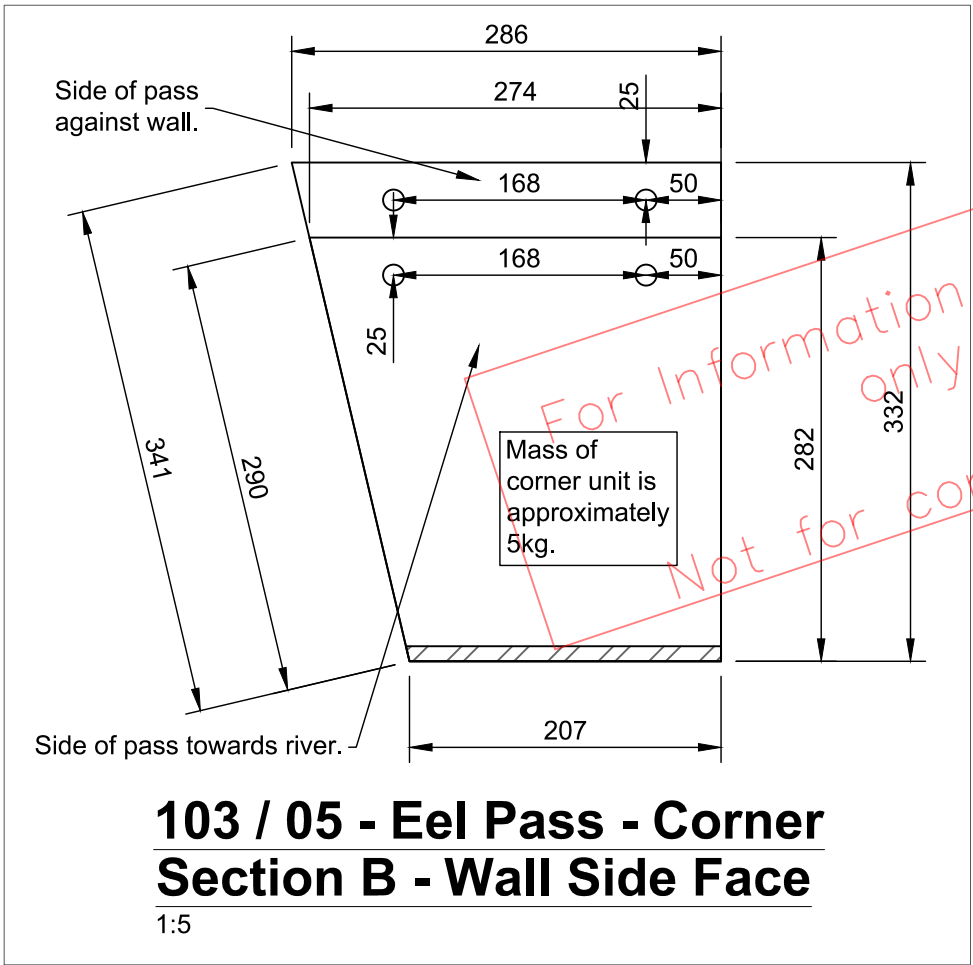
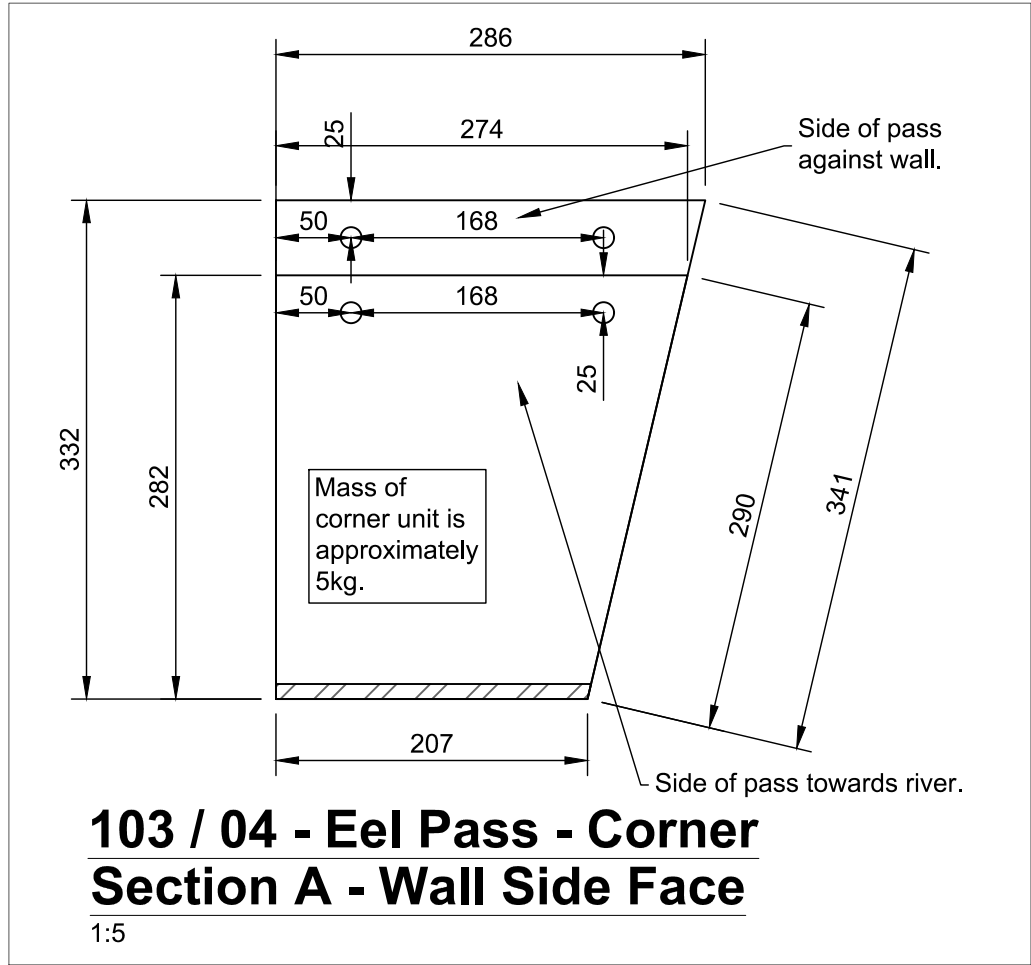
All fastness to have white nylon washers to isolate stainless steel fasteners from aluminium alloy extrusions & plates.

Washers to be M12 21mm x 2mm unless otherwise indicated to suit self screw dia.

All nuts to be nylon nuts.

Supporting structure to avoid bottom connector plates (& bolted fixings).

Any dissimilar materials to be insulated using nylon washers.



Keep out

Beware
underwater
obstructions

Beware
Strong
currents

Warning
Sudden drop

**Signage - Open Eel Pass -
Rigid Plastic**

Nominal 200x300 sign size, 3mm thick rigid PVC. Standard signs to ISO EN 7010, in accordance with EA requirements.

Fixings to suit location, to be agreed on site.

103 / 14 - Hazard Signage

NTS

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Status		
Detailed Design		
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Original Size	A1	Author A Frampton
Datum	N/A	Checker M.Lakin
Grid	N/A	Approver T.Coe
Filename:		Copyright reserved
Client		
 SEVERN RIVERS TRUST		
 FISHTEK CONSULTING		
PROJECT		
Mill Road, Stour - Eel Pass		
TITLE		
Eel Pass Fabrication Details		
Drawing No.	Project No.	Issue
103	02811	P01

In addition to the hazards/risks normally associated with the type of work detailed on this drawing, note the following risks and information.

Risks listed here are not exhaustive. Refer to Designer's Risk Assessment and pre-construction phase plan.

- Monitor flow levels & flood warnings.
- Check adequacy of cut-off & stability of cofferdams.

- ### Managing seepage flows
- Monitor seepage

- Monitor seepage.
- Check stability of cut bank faces and assess

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- Check adequacy of cut-off & stability of cofferdams.

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- Check adequate edge protection and access provision

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Access Restrictions
- Check access weight & size restrictions at bridge

- Access Restrictions**
- Check access weight & size restrictions at bridge

Interface with public & other site operations

- Interface with public & other site operations**

Stability of Expectations & Structures

- ### Stability of Expectations & Structures

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- Timber fencing to conform to BS 1722-7:2006+A1:2018.

- Timber fencing to conform to BS 1722-7:2006+A1:2018.
- All timber to be from recycled or from FSC certified sources.
- All timber for steps to be D30 grade oak, in order to withstand the riverine environment.
- All timber for fences/hand railing to be minimum C24 strength grade and tanalised.

P01	Detailed Design - For Comment	18/06/21
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Scales		Current Issue Signatures
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Filename:



Mill Road, Stour – Eel Pass

Access Steps - Details

Drawing No.	Project No.	Issue
104 -	02811	- P01