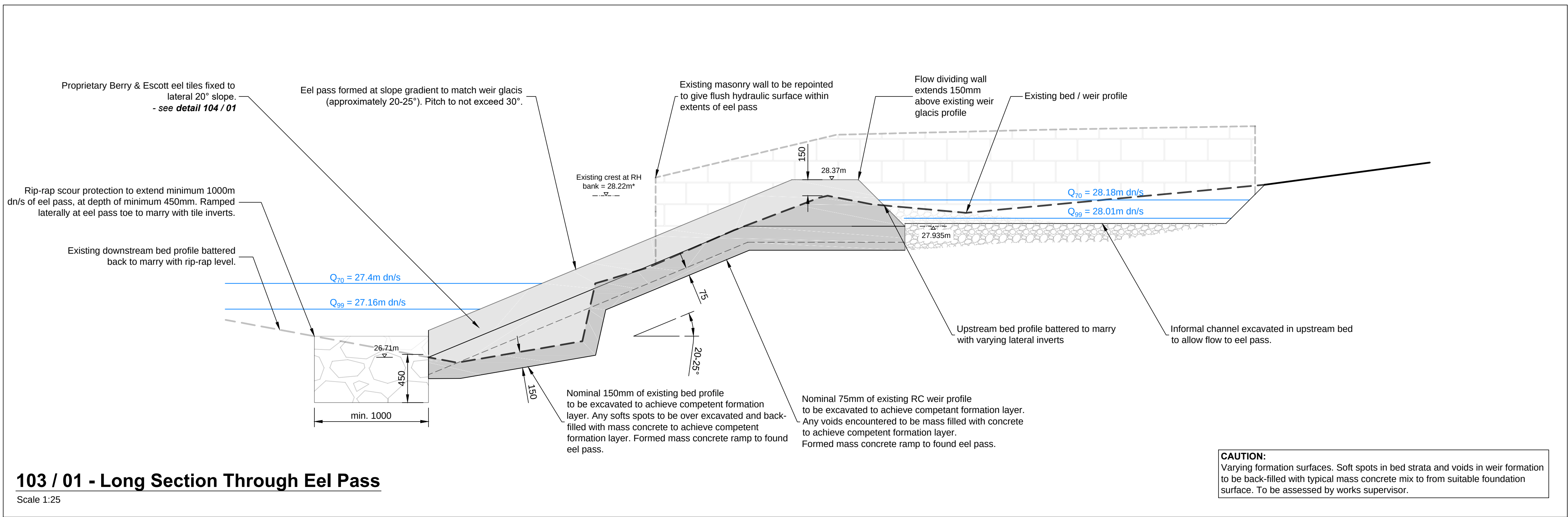




103 / 01 - Long Section Through Eel Pass

Scale 1:25

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 Fowey

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

C2

Managing seepage flows through weir

- Monitor seepage.
- Check stability of cut face in weir 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 onto weir.

C4

Lifting

- Check craneage lifting facilities & constraints.
- Check access weight & size restrictions for craneage 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.

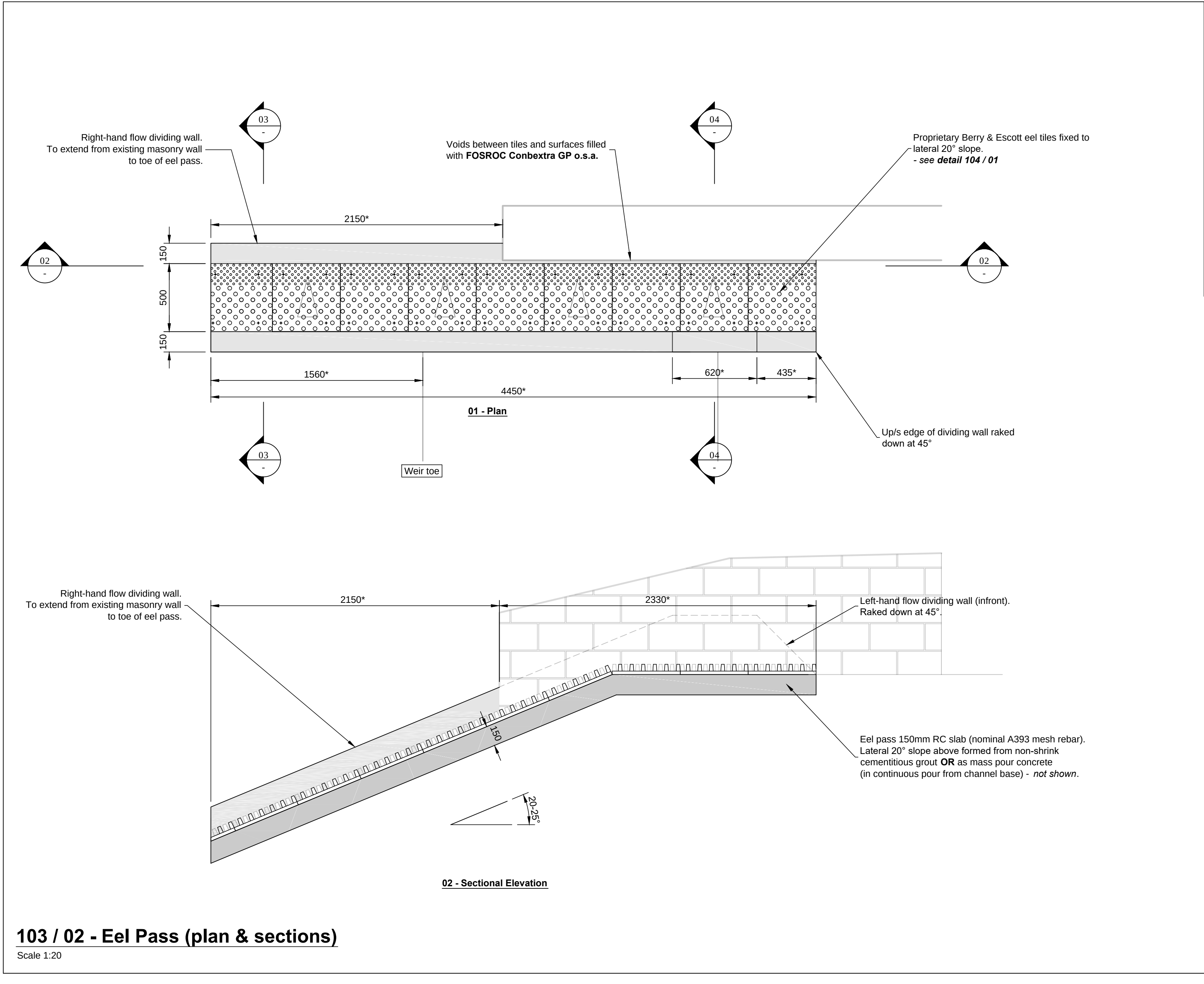
C7

Stability of Excavations & Structures

- Check temporary works & construction sequencing to maintaining structural integrity of weir and stability of adjacent walls.

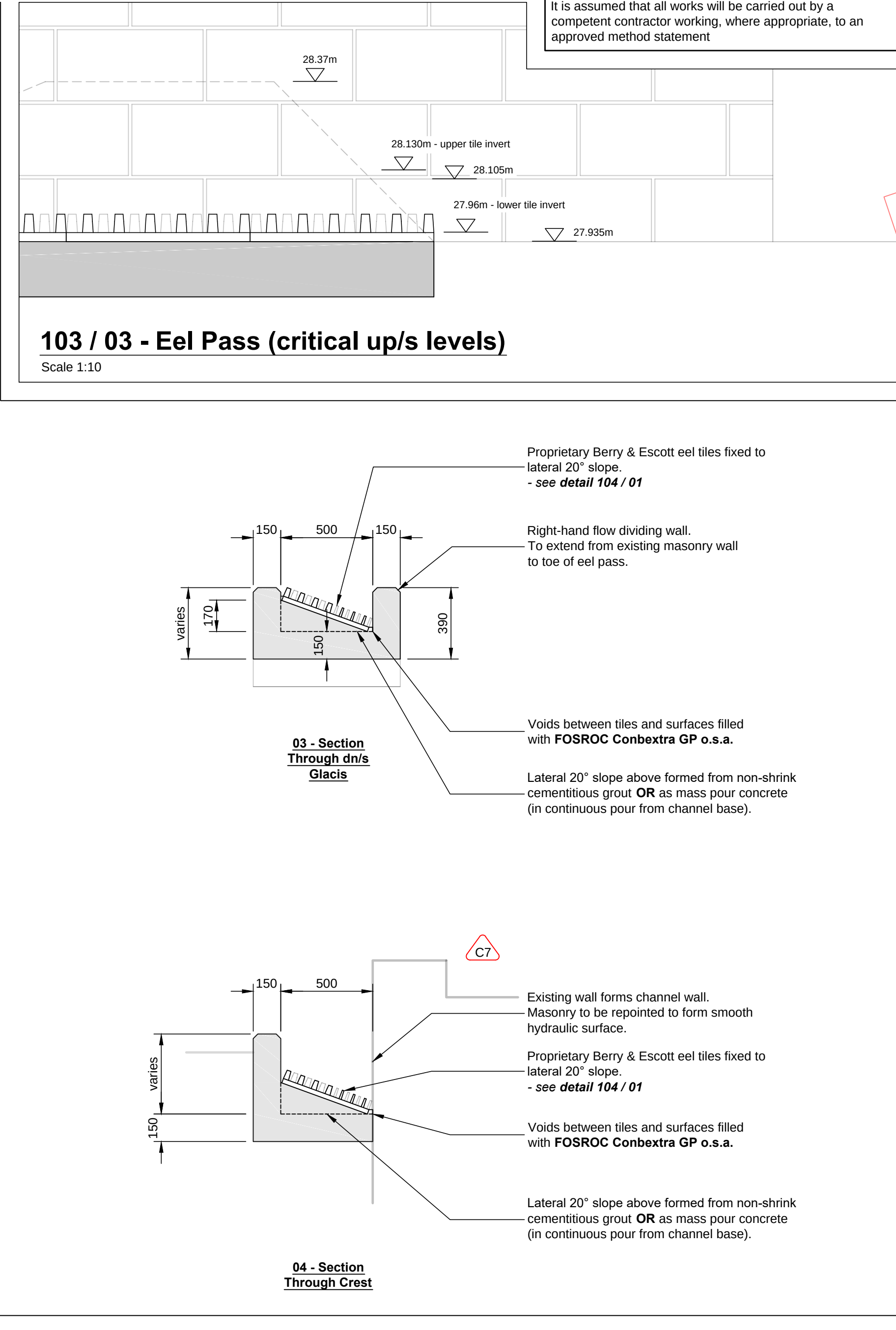
For information relating to Use, Cleaning and Maintenance see the Health and Safety File

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



103 / 02 - Eel Pass (plan & sections)

Scale 1:20



103 / 03 - Eel Pass (critical up/s levels)

Scale 1:10

NOTES:

1. DIMENSIONS:

- Are in millimetres unless otherwise stated
- Marked thus (°) are approximate
- All levels are in metres to Site Datum
- Critical levels set out to crest level. Temporary site datum to be agreed on site.

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. REINFORCED & MASS CONCRETE

- All concrete to comply with BS 8500-2.
- Mass concrete and reinforced concrete of the same mix.
- Concrete to have a minimum strength class of C35 / 45.
- Designated Mix REQUIREMENTS:
 - RC 35 / 45
 - 20mm max. aggregate size
 - S3 consistency class
- Reinforcement: All steel reinforcement shall be deformed Type 2 and shall be cut and bent to BS4449 or BS4449.
- Minimum cover to reinforcement C_{min} = 60mm.
- All exposed edges to have 25mm chamfer, with exception to abutting joints.
- Exposed formed concrete to have fair worked finish.
- Exposed unformed concrete to have wood float finish.
- Nominal 100mm layer of mass concrete blinding for pours.

4. RIP-RAP SCOUR PROTECTION:

- Rip-rap scour protection to comprise of natural hard stone with nominal density 2700kg/m³. Approximate grading to be: 50% 300mm<Ø<450mm, 50% 150mm<Ø<300mm.

For Information Purposes only

Issue	Description	Date
P01	For Information	20 / 06 / 19

Status

Detailed Design

Scales	As shown	Current Issue Signatures
Original Size	A1	Author: M.Giblin, Checker: M.Lakin, Approver: I.St-R.
Datum	N/A	© Copyright reserved
Grid	N/A	

Filename:

Client:

Westcountry Rivers Trust

FISHTEK CONSULTING

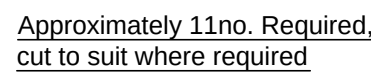
PROJECT

WFG Framework Glynn Weir

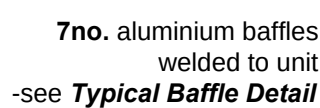
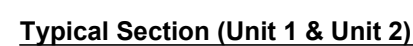
TITLE

Eel Pass Plan and Sections

Drawing No.	Project No.	Issue
0103	- 02458	- P01



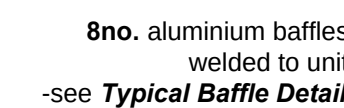
Scale 1:10



Long Section (Unit Type 1)

C7

Caution:
Estimated lift weight= 110kg
Aluminium units to be internally braced during installation and concrete pouring works to maintain form, subject to contractors method of working.



Long Section (Unit Type 1)

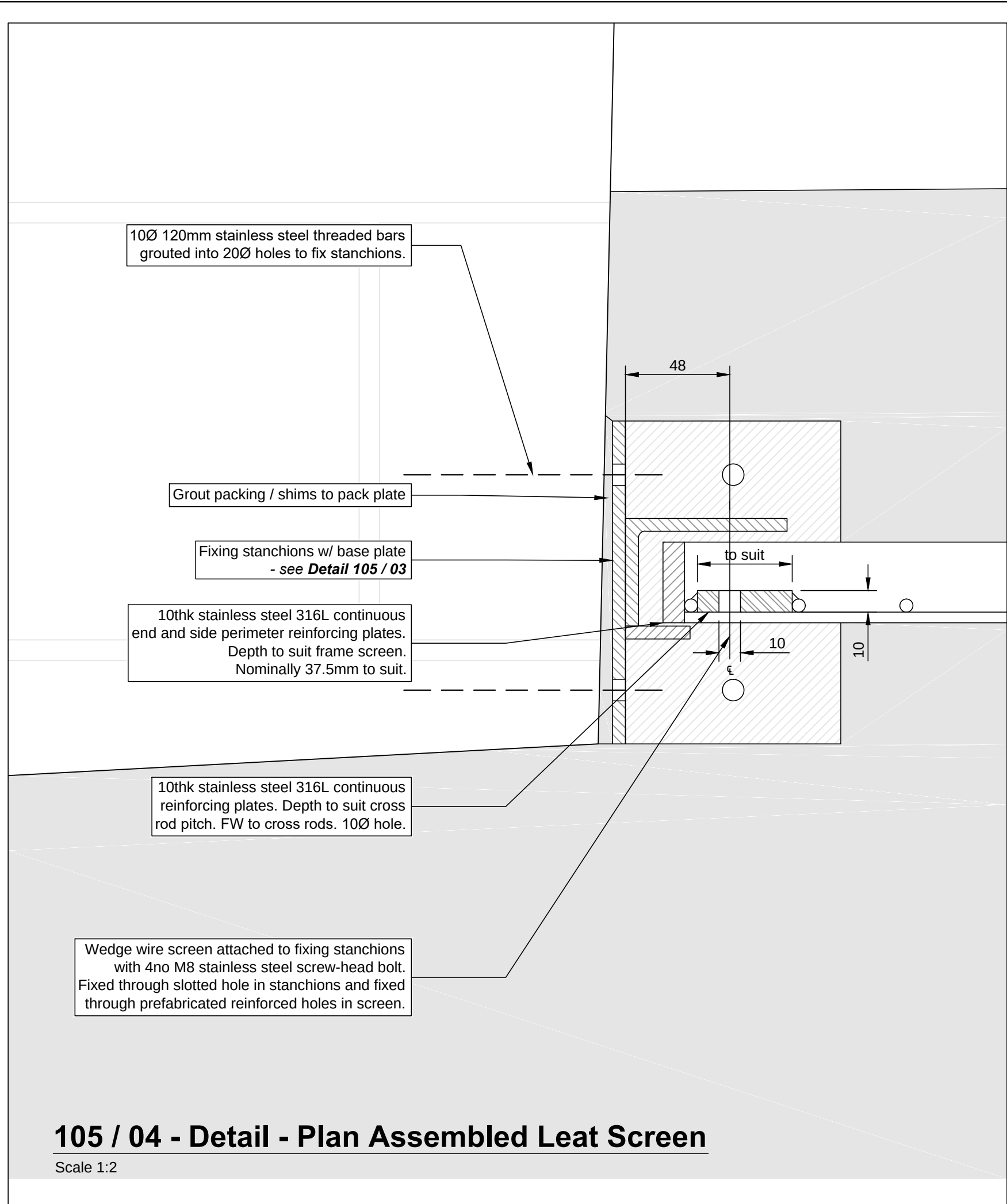
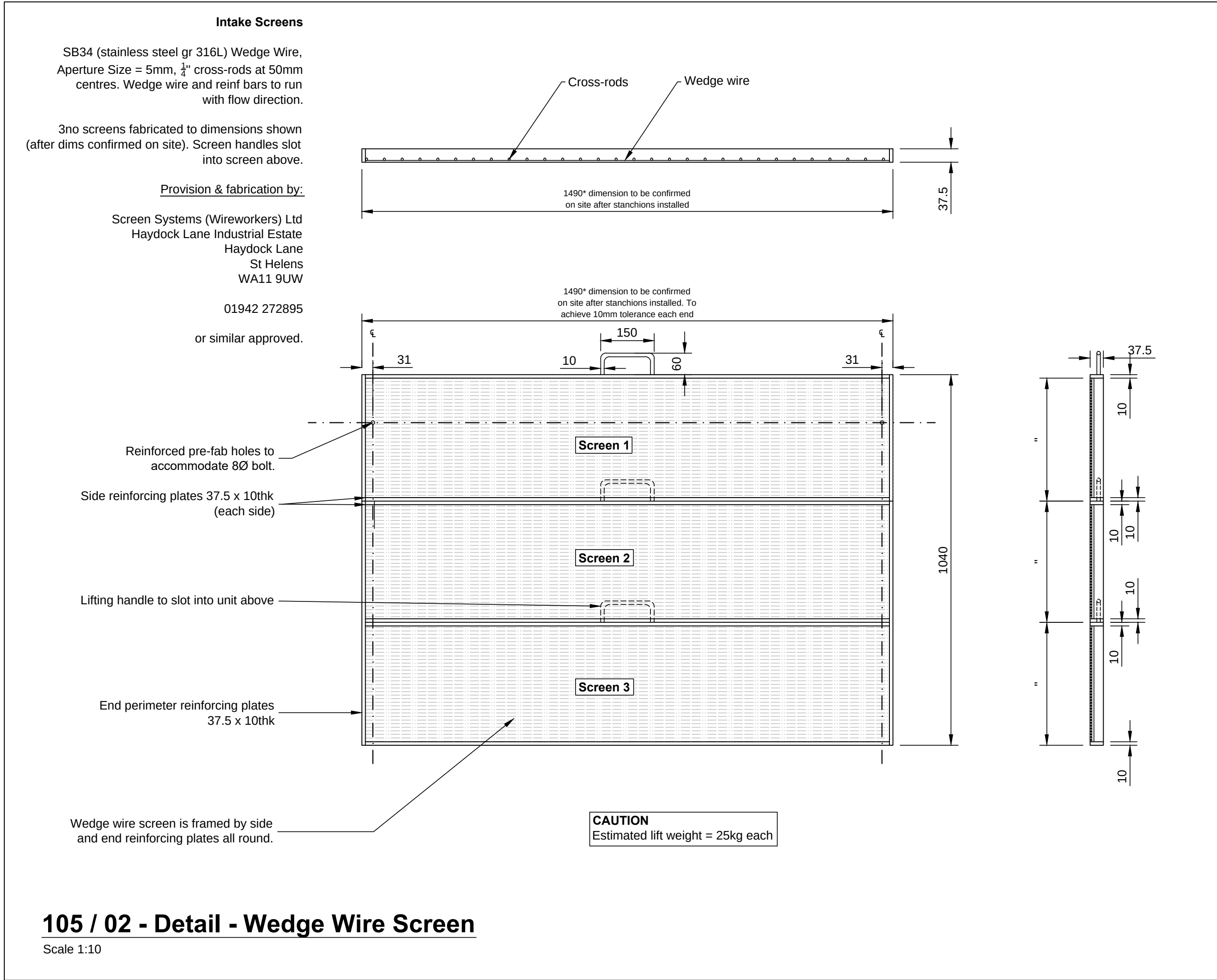
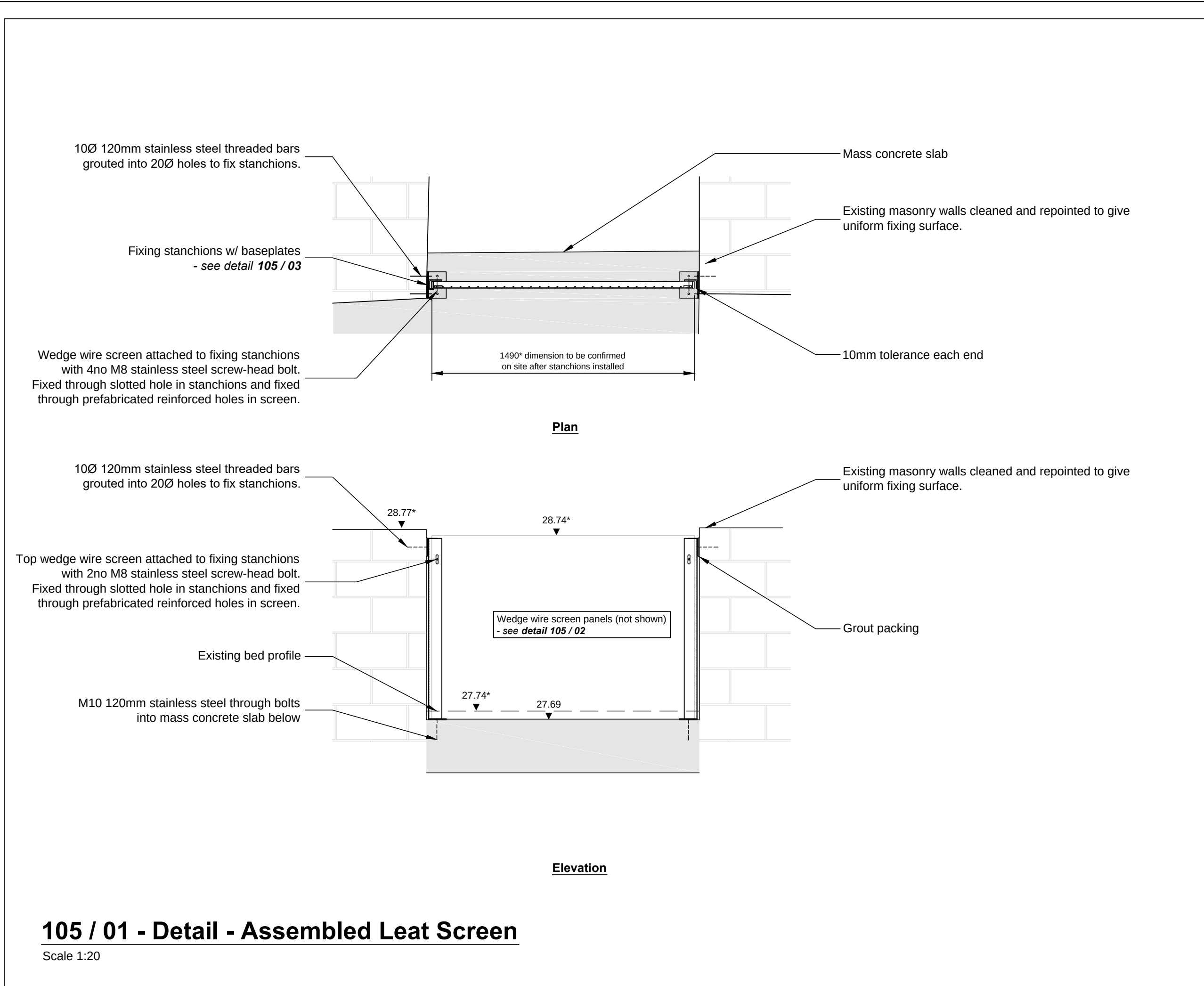
C7

Caution:
Estimated lift weight= 120kg
Aluminium units to be internally braced during installation and concrete pouring works to maintain form, subject to contractors method of working.

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

010% - 024.58 - PC

Scale 1:10



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

C2 Managing seepage flows through weir
- Monitor seepage.
- Check stability of cut face in weir 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 onto weir.

C4 Lifting
- Check craneage lifting facilities & constraints.
- Check access weight & size restrictions for craneage 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
- Check temporary works & construction sequencing to maintaining structural integrity of weir and stability of adjacent walls.

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
 - Critical levels set out to crest level. Temporary site datum to be agreed on site.
- 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. ALUMINIUM:**
- All structural aluminium alloys to BS8118.
 - Sheet plate grade to be Alloy 5251 H22 Temper, o.s.a.
 - All aluminium welds to be 10mm continuous fillet welds unless otherwise indicated.
- 4. FABRICATION:**
- Fabricator to prepare fabrication drawings.
 - All structural material components & all fabricated aluminium or stainless steel structures executed to conform to BS EN 1090-2
 - Size of connection plates & bolt hole positions to suit fabrication tolerances and checked prior to delivery to site.
- 5. STAINLESS STEEL:**
- All structural stainless steel 316L, o.s.a.
 - Wedge wire screen by Screen Systems (Wireworkers) Ltd.

For Information Purposes only
Not for construction

P01	For Information	20 / 06 / 19
Issue	Description	Date

Status	Detailed Design
--------	-----------------

Scales	As shown	Current Issue Signatures	
Original Size	A1	Author M.Giblin	
Datum	N/A	Checker M.Lakin	
Grid	N/A	Approver I.S.L-R.	
		© Copyright reserved	

Filename:

Client



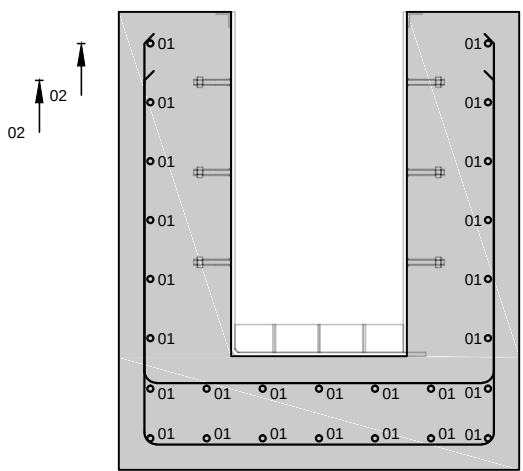
PROJECT

WFG Framework
Glynn Weir

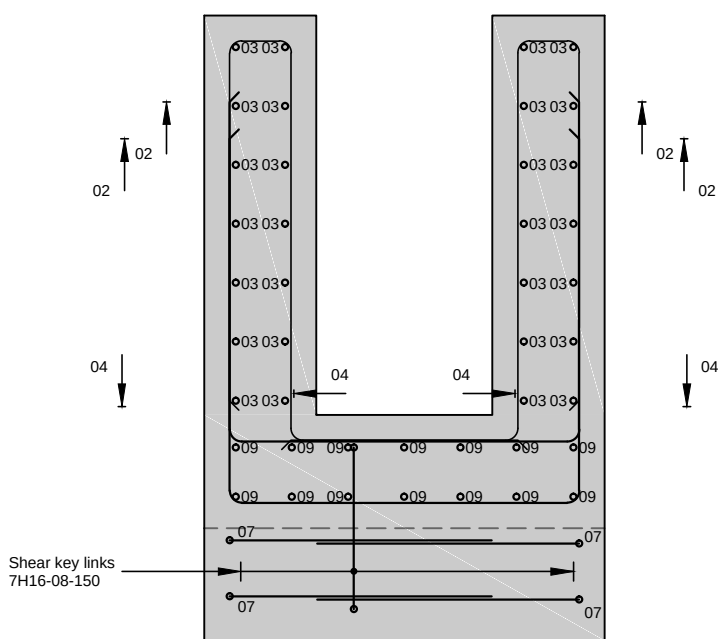
TITLE

Leat Screen
Assembly and Fabrication
Details

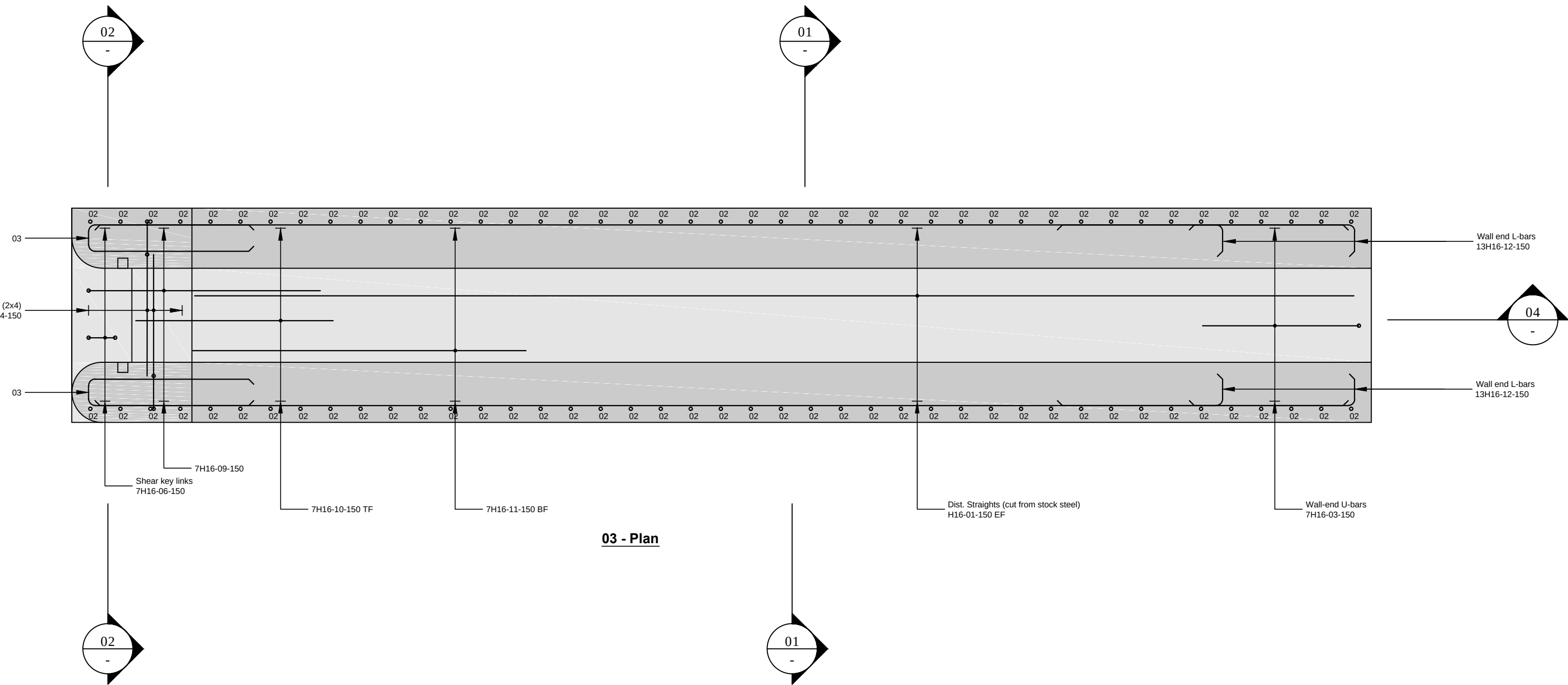
Drawing No.	Project No.	Issue
0105	- 02458	- P01



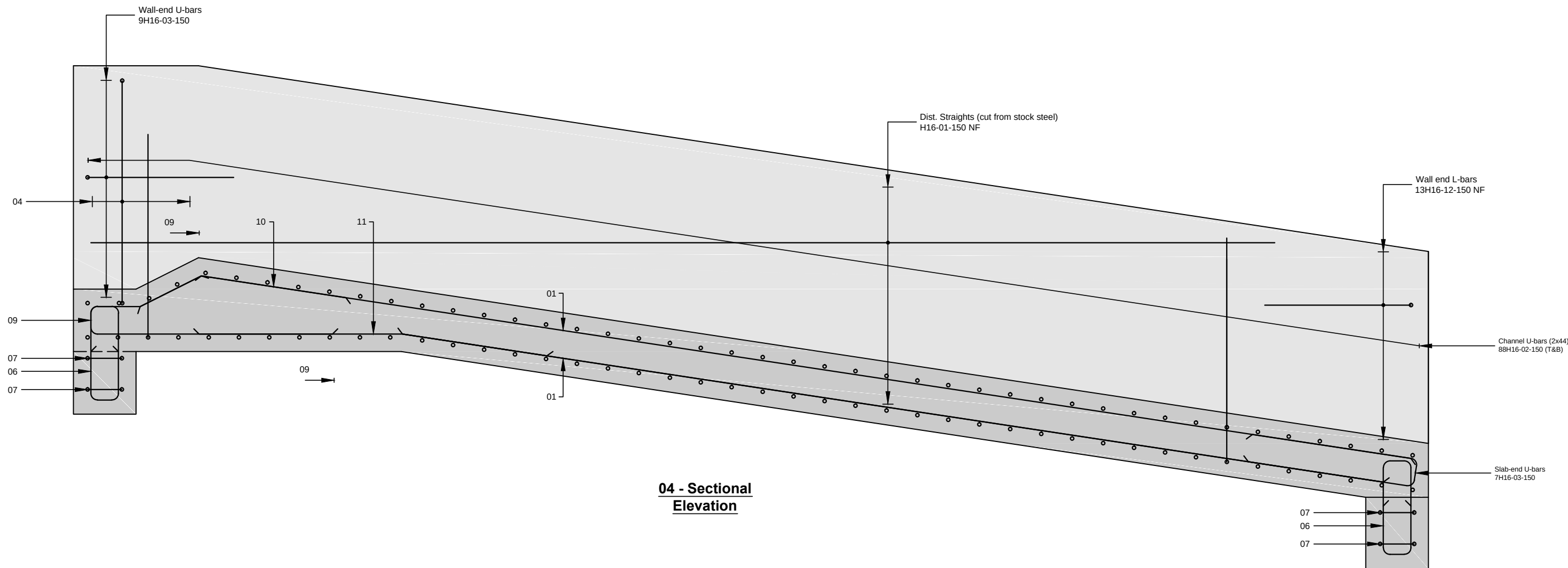
01 - Typical Section



02 - Section through up/s end



03 - Plan



04 - Sectional Elevation

106 / 01 - Larinier - RC Details

Scale 1:20

106 / 02 - Larinier - RC Schedule

NTS

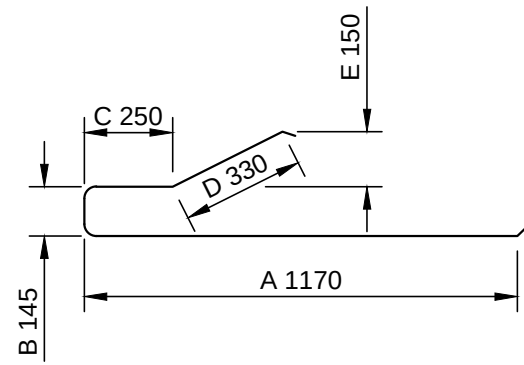
		BAR SCHEDULE				DRAWING NO.		SHEET		REV			
						106		1		P01			
TITLE	Glynn Weir					DATE	JUN 18						
ITEM	Larinier					NAME	MTG						
						REV.	P01						
MEMBER	BAR MARK	TYPE AND SIZE	NL OF BARS	TOTAL NO.	LENGTH OF EACH BAR (M)	SHAPE CODE	A*	B*	C*	D*	E1*		
	01	H16	1	40	6000	00	6000	180	Straights **				
	02	H16	1	88	88	2825	21	980	950	Channel U-bars			
	03	H16	1	25	25	1475	21	700	145	Wall/slab-end U-bars			
	04	H16	1	08	08	2750	32	970	180	1080	615		
	05	Not used											
	06	H16	1	14	14	1625	63	465	145	210	210	Links	
	07	H16	1	08	08	1550	21	710	180	Shear link U-bars			
	08	Not used											
	09	H16	1	07	07	1925	99	1170	145	250	330	150	
	10	H16	1	07	07	1030	15	330	200	700			
	11	H16	1	07	07	1675	15	700	115	975			
	12	H16	1	32	32	1020	12	210	810	Wall-end L-bars*			
	13	H12	1	14	14	725	21	300	150	U-bar dowels (101)			
	14	A393 Mesh (approx. 4.5m ² eel pass)											
	15	A393 SS grade 304 mesh (approx. 15.0m ² weir repair)											

Cover: Cover to reinforcement to be min 60mm (exposed faces)

Laps: Tension faces 40Ø (480mm)

* Legs cut to suit on site

** Length cut to suit from stock steel



BM09 - SC99 - Bespoke bar

- 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).

 - All concrete to comply with BS 8500-2.
 - Mass concrete and reinforced concrete of the same mix.
 - Concrete to have a minimum strength class of C35 / 45.
 - Designated Mix REQUIREMENTS:
 - RC 35 / 45
 - 20mm max. aggregate size
 - S3 consistency class
 - Reinforcement: All steel reinforcement shall be deformed Type 2 and shall be cut and bent to BS4466 or BS4449.
 - Minimum cover to reinforcement C_{min} = 60mm.
 - All exposed edges to have 25mm chamfer, with exception to abutting joints.
 - Exposed formed concrete to have fair worked finish.
 - Exposed uniformed concrete to have wood float finish.
 - Nominal 100mm layer of mass concrete blinding for pours.
 - 3. REINFORCED & MASS CONCRETE**
 - All concrete to comply with BS 8500-2.
 - Mass concrete and reinforced concrete of the same mix.
 - Concrete to have a minimum strength class of C35 / 45.
 - Designated Mix REQUIREMENTS:
 - RC 35 / 45
 - 20mm max. aggregate size
 - S3 consistency class
 - Reinforcement: All steel reinforcement shall be deformed Type 2 and shall be cut and bent to BS4466 or BS4449.
 - Minimum cover to reinforcement C_{min} = 60mm.
 - All exposed edges to have 25mm chamfer, with exception to abutting joints.
 - Exposed formed concrete to have fair worked finish.
 - Exposed uniformed concrete to have wood float finish.
 - Nominal 100mm layer of mass concrete blinding for pours.

For Information Purposes only
Not for construction

P01	For Information	20 / 06 / 19
Issue	Description	Date

Status					Detailed Design	
Scales		As shown		Current Issue Signatures		
				Author	M.Giblin	
Original Size	A1	Checker		M.Lakin		
Datum	N/A	Approver		I.St.-R.		
Grid	N/A	© Copyright reserved				

Filename:



PROJECT

WFG Framework
Glynn Weir

TITLE

Reinforced Concrete
Details and Schedule

Drawing No.	Project No.	Issue
0106	- 02458	- P01